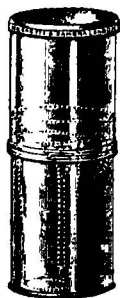


RAIN GAUGES

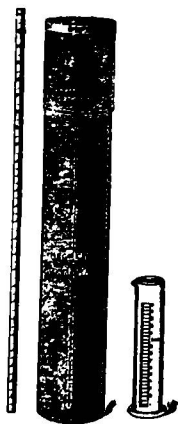
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the very well known pattern,
with 5-in. diameter brass rim,
complete with inner can, gradu-
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8-inch diameter brass rim,
inside bucket and gradu-
ated glass measure. This
is the type adopted by the
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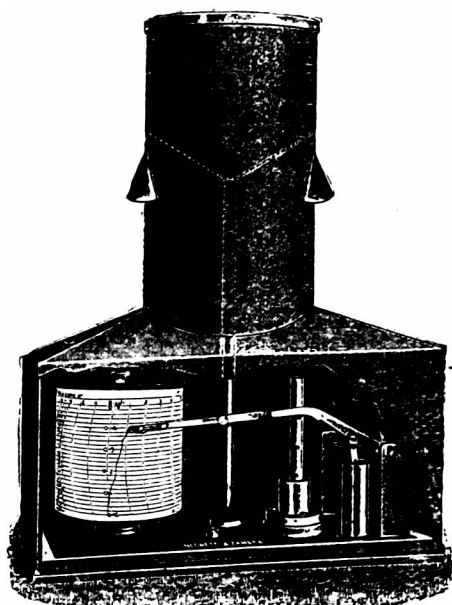
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measure holding 1½ ins.

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Our Measures are accurately
calibrated and engine divided,
the figures etched on by hand,
and filled in with a white sub-
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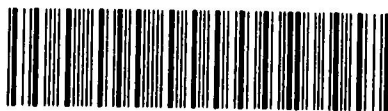
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J. J. Modie

BRITISH RAINFALL,
1916.



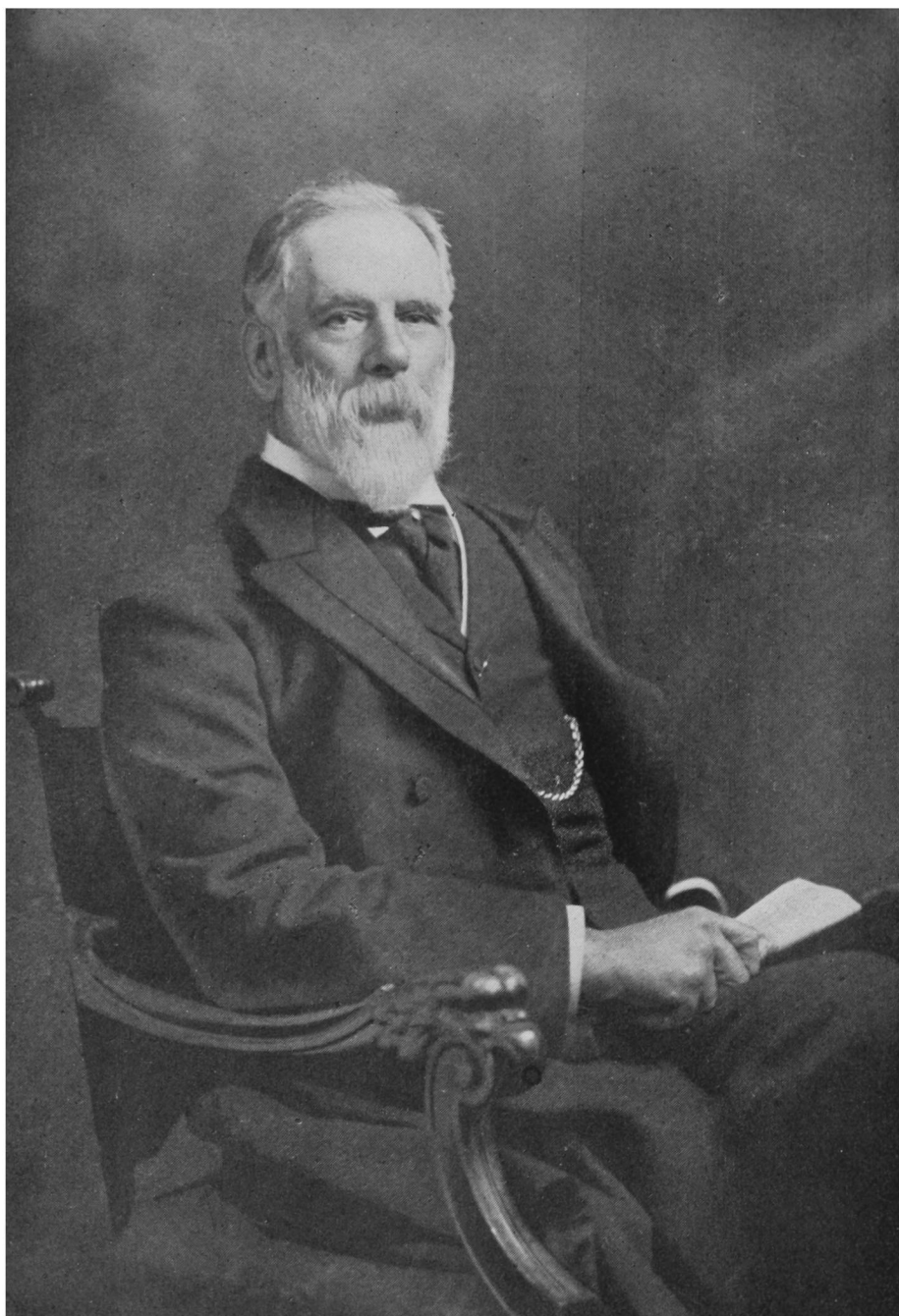
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SIR ALEXANDER RICHARDSON BINNIE.

[*Photograph by Elliott and Fry, Ltd.*

BRITISH RAINFALL, 1916.

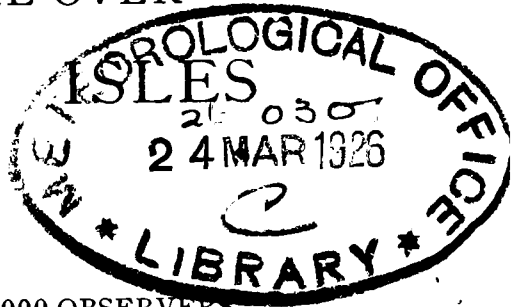
ON THE DISTRIBUTION OF RAIN

IN SPACE AND TIME OVER

THE BRITISH

DURING THE YEAR

1916



AS RECORDED BY MORE THAN 5,000 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-SIXTH ANNUAL VOLUME

WITH MAPS AND ILLUSTRATIONS

LONDON

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

1917.

ERRATA IN BRITISH RAINFALL, 1895.

- p. 25, 9th line from bottom of table, col. 3, *for 101 read 98.*
cols. 10 and 11, *for 134·82 101 read 131·82 98.*

ERRATUM IN BRITISH RAINFALL, 1904.

- p. 35, October, 1893, *for 44·9 read 44·0.*

ERRATUM IN BRITISH RAINFALL, 1914.

- p. [302], Pont Lluest Wen Res., altitude, *for 1225 read 1200.*

ERRATA IN BRITISH RAINFALL, 1915.

- p. 20, Subscription List, *insert J. H. Benyon, Esq., £1 10s.*
pp. [15], [124] and [199], *for Bude (The Schoolhouse) read Bude (Shalder Hill).*
pp. [16] and [253], Lligwy, total rainfall, *for 33·63 read 32·63.*
p. [59], line 5 from bottom, *for A winter of rainfall . . . read A winter rainfall of . . .*
p. [157], line 3 of London, 2, Meteorological Office. Height above ground and sea level, *for 57 ft. ; 70 ft., read 1 ft. ; 31 ft.*
p. [177], ,, 18 ,, Hertfordshire, 2, *for Langley read King's Langley.*
p. [179], ,, 4 ,, Buckinghamshire, 3, *for ,, (Hitcham Grange)*
read Taplow (Hitcham Grange).
p. [180], ,, 17 ,, Oxfordshire, 3, Steeple Aston School, *delete the line.*
p. [200], ,, 20 ,, Cornwall, 2 (*con.*), *for ,, (Torfrey) read Fowey (Torfrey).*
p. [224], ,, 1 ,, Central Lancs, 1, *for L. Parry, Esq., C.E.,*
read J. R. Davidson, Esq., C.E.
p. [256], ,, 11 ,, Dumfries, 4, Beattock (Road Exp. Stat.), *for 42·35 read 42·50.*
p. [270]. ,, 1 ,, Perth, 16, *for Perth (Laurelbank) read Perth (Wellshill Cemetery)*
and transfer to Perth, 8.

ERRATA IN BRITISH RAINFALL, 1916.

- p. [31], Dormans Park, Duration of Rainfall, Nov., *for 87·3 read 87·5.*
p. [32], Croydon, Duration of Rainfall, year, *for 342·8 read 542·8.*
p. [33], Benson, Duration of Rainfall, year, *for 53·19 read 531·9.*
p. [173], last line, Cutcombe (Wheddon Cross), mm., *for 1428 read 1443.*

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PREFACE.

THE late date at which this volume appears is due entirely to the effects of the third year of War. The editorial work has been finished at practically the same date as last year ; the delay has arisen mainly in the mechanical processes of block-making, printing and binding, but the old firms who have attended to these matters from the first issue of *British Rainfall* have done their utmost to overcome the difficulties as they arose. There has again been a perceptible reduction in the number of rainfall returns sent in as compared with the previous year ; but this reduction does not exceed 4 per cent. of the whole number, and returns from practically 5,200 stations are included.

In the compilation of the volume, Mr. Carle Salter, the Assistant Director, has, as in recent years, undertaken the responsibility for the statistics in Parts I. and II. and for the whole of Part III. He has also drawn most of the maps, the number of which has had to be reduced on account of the absence of both the experienced map draftsmen. He and the assistants have worked to the full limits of their strength, and such short-comings as may appear in the volume are the results of uncontrollable circumstances.

I have been able to take a larger personal share in the preparation of this volume than my health has permitted for several years, and I have written or thoroughly revised all the letterpress except where otherwise specified.

The volume will be found to give a very full account of the rainfall of the year. Special attention may be called to the Report of the Director on pp. 9-15, which refers to the work of the Rainfall Organization for the year, to the description in Part II. of the two remarkable Scottish rains of July 7th and October 11th on pp. [47] and [60] (the latter includes the largest fall in one day ever recorded in the British Isles, 8·20 inches, at Kinlochquoich), to the widespread rainfall in the south of England on August 29th, on p. [55], and to the fierce little Welsh downpour of July 26th on p. [53].

The monthly maps of rainfall on pp. [72-95], and the discussion of the total rainfall of the year, on pp. [114-122], also show some points of special interest.

H.R.M.

62, CAMDEN SQUARE,

LONDON, N.W. 1.

16th August, 1917.

OPTIMISM.

In the Hoosier dialect.

It ain't no use to grumble and complain ;
It's jest as cheap and easy to rejoice ;
When God sorts out the weather and sends rain,
W'y, Rain's my choice.

James Whitcomb Riley.

A Translation.

Futile it were to heave the fretful sigh
When facile mirth is free to such as I :
Should cheerless rain from high Olympus fall,
I choose wet weather, and record it all.

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

Presented at the Meeting of Trustees held at 62, Camden Square London,
on August 7th, 1917.

The Late Sir Alexander Binnie.—By the death of Sir Alexander Binnie on May 18th, 1917, the Trustees have lost one of their colleagues who before the breakdown of his health took a great personal interest in the work of the Organization. He represented the engineering profession which more than any other part of the community turns to practical account the data collected by Observers, and he also contributed in a great degree to the establishment of definite principles relating to the fluctuations of annual rainfall and the period required to yield normal values. An obituary notice was published in *Symons's Meteorological Magazine* for June, 1917, and a short biography, illustrated by a portrait, appears in *British Rainfall, 1916*.

The Routine Work and the War.—It is with surprise and deep satisfaction that I am able to report the smallness in the reduction of the volume of rainfall observations received for 1916. Many old records have been stopped owing to the war, but not a few new Observers have come to our aid, thus keeping the total number to nearly 5200. Much of the observing work is being done by willing substitutes for men who have gone to the front, and thus any fear that the voluntary system of rainfall observing might break down in the stress of circumstances has proved vain.

The work of the office has, however, been beset with great difficulties, partly on account of reduced income, but to a much larger extent by the loss of all assistants of military age. Mr. H. E. Carter, the Chief Computer, continues to work in the Meteorological Section of the Royal Engineers at General Head Quarters in France. Mr. D. S. Salter, Cartographer, after serving a year in the Royal Engineers, received a commission in the Royal Garrison Artillery, and is now at the front. Mr. J. Glasspoole took the degree of B.Sc. in Chemistry and Mathematics at the University of

London in October, 1916, and received an appointment as assistant chemist in a Government laboratory. L. G. McCutcheon, assistant draftsman, gave up his position before being called on to join the Army; C. Evans, who had just left school, was engaged in December to act as junior assistant in all departments and he has proved a quick learner. Mr. F. Wuyts, who will shortly be called up for the Belgian Army, has become a most useful assistant, and Mr. R. Lamport continues the faithful and accurate service which he has rendered for more than thirty years. Mr. Mossman, except for unavoidable absences through illness, has been specially engaged in editorial work, but has always most willingly turned his hand to any other branch where the pressure of circumstances required it. The brunt of all the difficulties arising from changes in the staff fell upon Mr. Salter, who has throughout proved equal to the emergencies. In the absence of the trained draftsmen he has plotted most of the current monthly and other rainfall maps and generally has undertaken any piece of work which no one else could be found to do. This of course has all been in addition to his ordinary duties as Assistant Director, the main part of which consists in correspondence with Observers, settling discrepancies in the returns, and compiling the General Table for *British Rainfall*. During their short periods of leave, Mr. D. S. Salter and Mr. Glasspoole have voluntarily given useful assistance in the office work. I must put on record here the great help which has been given by Mr. J. Fairgrieve in filling up the monthly rainfall maps for 1916 with the returns received at the beginning of the year, and also in plotting several of the maps of daily rainfall for the volume now being completed. Much valuable help has also been given by Mr. M. J. Salter in computing and checking the tables for *British Rainfall* and in other ways.

Our ambition has been confined to keeping the records and publications going with undiminished accuracy, all plans of improvement or extension of the scope of the work have had to be postponed.

Original Observers.—Of the six Observers referred to last year whose contributions were first published in *British Rainfall, 1860-61*, I regret to have to announce the death, on December 16th, 1916, of Rev. C. B. Mount, who had ceased to observe for many years. The list now includes :—

R. BURRELL, ESQ.
W. S. CLARKE, ESQ.

DR. W. C. LAKE.
LORD PECKOVER OF WISBECH
J. G. WOOD, ESQ.

Metric Units and Summer Time.—Two causes of confusion in observing and increased difficulty in the detection and correction of errors which have hampered our work since last year are not directly due to the war. The more serious of these is the introduction of rain measurements in millimetres by the Meteorological Office, the effect of which begins to be felt in the records for 1916. As it is impossible to make any changes this year in the handling of statistics I must again postpone the discussion of the matter. The difficulties I refer to have been due to the necessity of attempting to convert two incommensurable units. If the metric system is generally adopted in this country and becomes familiar to the majority of the people, we should certainly drop the inch; but at present it seems to be the duty of this Organization to abide by the units that are generally understood in the country.

Summer Time has brought doubt and confusion into the discussion of heavy falls on rainfall days, as although the Observer who goes by the clock has only one day of 23 hours and one of 25 hours in the year, his 24-hour day throughout the whole period of Summer Time begins an hour before the normal rainfall day based on Greenwich mean time. The real trouble is that it is almost impossible to ascertain whether any particular Observer has used Summer Time or not. In one case, at least, an Observer anxious to adhere to Greenwich time took his readings at 8 a.m. Summer Time! Several Observers have unfortunately used the expression "Sun time" to denote Greenwich time, while others have used "Sum. time" to denote Summer time, and where a typewriter is not used the boundary line between "n" and "m" is deplorably vague.

Inspection of Rain Gauges.—This branch of the work has suffered most on account of the absence of the senior assistants and the few opportunities which Mr. Salter or I have had to leave home. I have seen 39 gauges in the period since my last report, of which 5 were in London, 2 in Surrey, 3 in Hampshire, 1 in Dorset, 6 in Wiltshire, 3 in Somersetshire, 6 in Monmouthshire, and 13 in Breconshire. Mr. Salter has inspected 18 gauges, 3 in Middlesex, 1 in Hertfordshire, 5 in Sussex, 8 in Dorset, and 1 in Somerset, and Mr. Mossman 2, in Middlesex.

The Publications.—All the curtailments introduced last year have been retained, and brevity has been the motto in all discussions. In order to save paper and reduce expense in *British Rainfall* all illustra-

tions, except the monthly maps, have been cut out or kept to a minimum. At the same time no essential record or discussion has been omitted from *British Rainfall, 1916*, which as far as statistics are concerned, is as complete as ever. The new volume consists of 306 pp. as compared with 338 pp. in *British Rainfall, 1915*, 448 pp. in *British Rainfall, 1914*, and 476 pp. in *British Rainfall, 1913*.

Symons's Meteorological Magazine has been kept down to 12 pages monthly instead of 16, as last year, and 20 in 1914. It has appeared with perfect regularity, and the difficulty has been not to get material for publication, but to decide what must be left out. The tables appearing monthly have been modified so as to save space without reducing the number of stations from which reports are published.

Scientific Work and Advice.—I have continued the custom of supplying an early summary of the rainfall returns of the year to *The Times*, and I have also sent letters to that paper on any unprecedented records in the meteorological observations at Camden Square, which have been exceptionally numerous in the last twelve months.

As usual there has been a large number of questions from members of the public regarding the rainfall of various localities to help in the choice of a residence, suggesting new forms of meteorological instruments, enquiring as to the validity of weather signs and the like, all of which have been answered in detail. Another considerable portion of the correspondence consists of vague questions such as "Please inform as to water indicators," or "Kindly state on attached card the rainfall of London or of all England." These naturally require no expenditure of time in answering.

Comparatively few enquiries have been made which involved much trouble, but I may mention the preparation of a small scale average rainfall map of Ireland in response to a request from the National Health Insurance Commission in Dublin. We have advised the Committee for the Investigation of Atmospheric Pollution on points connected with the rainfall at some of their collecting stations, and supplied information to the London County Council and various municipal authorities. I have also been in correspondence with several investigators engaged in researches which involve the construction of rainfall maps of localities, and other matters in which rainfall and evaporation are concerned. We have again sent a

circular from Captain Cave to all the Observers inviting them to assist the Meteorological Office by contributing notes of winter thunderstorms, and I believe that the response has been satisfactory. We have endeavoured to induce several local authorities, in some instances with success, to continue valuable series of observations which we had been informed were in danger of being stopped.

In addition to these gratuitous services many interviews have been given to newspaper correspondents for a small fee, and data have been supplied for payment to a number of persons and public bodies who did not propose to use them for purely scientific work. Monthly maps of rainfall have been supplied regularly to the Meteorological Office for publication in the *Monthly Weather Report* on the same terms as before.

Mr. Salter read a paper to the Royal Meteorological Society on "The Measurement of Rainfall Duration," the substance of which appears in Part I. of *British Rainfall, 1916*. He has served on the Council of the Royal Meteorological Society and he and I have taken part in the discussions at several meetings.

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 as in previous years supplied tables of rainfall to the Thames Conservancy and reports on the rainfall of the Birmingham and the Birkenhead Water Works in Wales. I have also reported on the rainfall of proposed gathering grounds for the Barrow-in-Furness Water Bill, 1917, and for other areas in the north of England, Wales and Scotland.

Legacies to the Trustees.—The late Mr. George Searle of West Kensington, who died on August 23rd, 1916, left to the Trustees of the Organization his set of *British Rainfall* and *Symons's Meteorological Magazine*, together with a sum of £200 free of legacy duty. This will not be payable for some time.

The executors of the late Mr. W. B. Butler, of Southgate, who died on May 29th, 1917, have handed to us a nearly complete set of volumes of *British Rainfall* and of *Symons's Meteorological Magazine* and a collection of meteorological instruments, including some very interesting travellers' rain gauges of small diameter. They have also intimated a bequest of £100 free of legacy duty.

A legacy of £10 has been received from Mr. L. J. Nicholson, a comparatively recent Observer, whose help in checking rainfall returns was acknowledged in my last report. Mr. Nicholson was killed in action in France, in May, 1917.

The executors of the late Mr. George Pile, of Cranbrook, have forwarded the manuscript of weather notes and rainfall returns kept for more than 40 years, and left to the Organization.

Mr. Gerald Stephens, of Worcester Park, Surrey, has kindly presented a set of *British Rainfall* containing several volumes that have long been out of print.

Adventure of a Rain Record.—Mr. J. G. K. Day, of Cowes, Isle of Wight, in sending his record for 1916, says :—

“ It is with pleasure I am able to send to you this year as when I saw the flames leaping through the office I thought everything in it would be destroyed as, unfortunately, we have had a serious fire in the works this year. I lost records, of rainfall from 1882 as well as other meteorological data, and but for the hose playing on to the sheet I had hung up of last year's rainfall it would have been destroyed. As it was the melted lead ran down across it, but I can still read it.”

We were happily able to supply Mr. Day with a copy of all the rainfall records, the originals of which were lost in the fire.

The General Fund.—As usual I submit a summary of the receipts and expenses of the Organization for the finance of which I am personally responsible under the Trust Deed. Detailed books are kept and these are open to the inspection of any subscriber to the fund on personal application at 62, Camden Square. I doubt whether any work of equal magnitude is carried out at a smaller cost. It could be done very much better if it were adequately supported, and but for the war, I should have continued the effort begun in 1913 to obtain a satisfactory basis for continuing and improving the work of the Organization. I am thoroughly persuaded that work of this kind is most efficiently carried on by a voluntary agency absolutely free from red tape; but to secure this efficiency the generous help of the well-to-do Observers is as necessary as the devoted services of the staff. It is clear that to continue the work in the old way means far too heavy a strain on the strength of the Director and his helpers; but at a time like the present it is hopeless to seek to improve the conditions. It is a marvellous thing that the work has survived three years of war distractions and restrictions, and we

are confident that in the future some way will be found, though it has not yet appeared, for giving its proper place in the Sun to the national study of the great national resource of Rain.

Receipts on Account of British Rainfall Organization, 1916.

	£	s.	d.
Subscriptions	1094	11	3
Sales to Public	60	15	1
Advertisements	55	8	2
Certificates	7	18	2
Supplying Rainfall Data	11	6	0
Maps and Literary Work	27	2	0
Interest on Endowment Fund and Bank Deposit	61	15	7
Meteorological Office, towards expenses of Metric Conversion	30	0	0
TOTAL	£1348	16	3

Expenditure on Account of British Rainfall Organization, 1916.

	£	s.	d.
<i>British Rainfall and Meteorological Magazine</i> (including Postage)	468	5	8
Observers and Instruments	34	5	11
Salaries and Assistance	659	11	9
Printing, Stationery and Establishment Expenses	136	10	0
Extra Postage, Telephone, Petty Cash and Miscellaneous Expenses	70	2	11
TOTAL	£1368	16	3
DEFICIT, met by Director	£20	0	0

62, CAMDEN SQUARE,
LONDON, N.W., 1.

HUGH ROBERT MILL.

TREASURER'S REPORT ON ENDOWMENT FUND.

STATEMENT FOR THE YEAR, 1916.

The following sums have been received :—

	£	s.	d.
Balance from 1915	41	9	11
R. Cooke, Esq. (7th Don.)	4	5	0
Under £2	2	0	0
	<hr/>		
	£47	14	11
	<hr/>		

No expenditure has been made during the year.

On August 7th, 1917, 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, £100 0s. 0d. 5% War Loan 1929-47, £7 19s. 11d. cash.

Between the end of 1916 and August 7th, 1917, the following further donations have been received :—

	£	s.	d.
Col. H. Mellish (4th Don.)	50	0	0
R. Cooke, Esq. (8th Don.)	4	5	0
Under £2	1	0	0
	<hr/>		
	£55	5	0
	<hr/>		

Out of this sum and the balance at end of 1916, the £100 5% War Loan was applied for.

THE PRINCIPAL DONATIONS TO THE ENDOWMENT FUND RECEIVED UP TO AUGUST 7TH, 1917, WERE AS FOLLOWS :—

Boughton, Miss F. H. Rouse	£110
Brook, Charles L., Esq.	£500
Druce, Francis, Esq.	£200
Freshfield, D. W., Esq., D.C.L.	£200
Mellish, Lt.-Col. H., C.B.	£250
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*.

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

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

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

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

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

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

Staff.

HUGH ROBERT MILL,
Director.

CARLE SALTER,
Assistant Director.

R. C. MOSSMAN, *Editorial Assistant*.

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

[Corporal HARRY E. CARTER, F.R.Met.Soc., <i>Chief Computer</i> .]	} (On Active Service.)
[2nd Lt. DONALD S. SALTER, R.G.A., F.R.MET.Soc., <i>Cartographer</i> .]	
[JOHN GLASSPOOLE, B.Sc., <i>Assistant Computer</i> .]	

F. WUYTS, *Junior Assistant*.

C. F. EVANS, *Junior Assistant*.

MRS. HAMPTON, *Housekeeper*.

Bankers:—NATIONAL BANK LIMITED, Camden Town Branch.

Office:—62, CAMDEN SQUARE, LONDON, N.W. 1.
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 OCT. 23RD, 1917.**

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	11	0
Birmingham Corporation	2	12	0
Bolton ".....	2	2	0
Bradford ".....	1	0	0
Brighton ".....	1	10	0
Bristol Waterworks Co.	1	1	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
Gosport Water Works Co.	1	1	0
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
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Oldham ".....	1	12	0
Ramsgate ".....	1	10	0
Sheffield ".....	1	1	0
Southgate U.D. Council	1	0	0
Southport Corporation.....	1	1	0
Southend Waterworks Co.	1	11	0
South Staffs. Waterworks Co.	1	0	0
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Strutt, G. Herbert, Esq.	1	1	0	Whitehead, Mrs. Lionel	1	0	0
Stunt, W. C., Esq.	1	0	0	Whittington, C. J., Esq.	1	0	0
Sturge, Miss A. M.	1	1	0	Wilde, Mrs.	1	5	0
Sturt, Miss K. M.	1	11	6	Wilkin, Mrs. A.	1	6	0
Sugden, Hatton G., Esq.	1	0	0	Wilkin, F., Esq.	2	10	0
Swinton, A. E., Esq.	1	0	0	Wilkinson, W. King, Esq.	1	1	0
Sykes, Mrs.	1	0	0	Williams, Rev. Leonard A.	1	1	0
Tabor, H. S., Esq.	1	1	0	Wilson, Albert, Esq.	1	15	0
Tatham, Leonard J., Esq.	1	5	6	Wilson, Alex. M., Esq.	1	0	0
Tatham, M. T., Esq.	1	0	0	Wilson, Dr. H. Maclean	1	1	0
Tatton, R. A., Esq.	1	0	0	Wolferstan, Mrs.	1	1	0
Tatton, T. Egerton Esq.	1	16	0	Wood, J. G., Esq.	5	3	0
Tawney, Miss E. M.	1	0	0	Wood, Rev. C. H. B.	1	1	0
Taylor, C. E., Esq.	1	1	0	Woodhead, James, Esq.	1	0	0
Taylor, Capt. E. R.	5	0	0	Woodhouse, Miss E. D.	1	1	0
Taylor, late F. J., Esq.	1	0	0	Woodruff, Dr. J. W.	1	1	0
Taylor & Sons, C.E., Messrs. J.	1	1	0	Woods, J. W., Esq.	1	1	0
Taylor, W., Esq.	1	1	0	Wordsworth, Gordon G., Esq.	2	0	0
Thomas, J. F., Esq.	1	1	0	Worthington, W. B., Esq., C.E.	1	1	0
Thompson, Mrs. Heywood	1	1	5	Wright, P. Lennox, Esq.	1	1	0
Thompson, Mrs. H. Yates	1	1	0	Wynne, E. N., Esq.	1	11	0
Thomson, J., Esq.	1	1	0	Yool, Mrs. H.	1	1	0
Tidswell, R. J., Esq.	1	1	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., 1.

THE LATE SIR ALEXANDER BINNIE.By DR. H. R. MILL.

ALEXANDER RICHARDSON BINNIE was born in London on March 26th, 1839, educated at private schools and trained as a pupil of the famous civil engineer J. F. La Trobe Bateman. To him and to Terence Woulfe Flanagan, under whom he also worked as a young man, Binnie acknowledged his life-long indebtedness for a thorough grounding in his profession. He spent some time on Welsh railways, and in 1869, entered the Public Works Department in India, and in the larger field, amid the more intense forces of tropical Nature, he developed his powers and deepened his insight into the problems with which he had to deal. This was true especially of his study of rainfall, which was to bear fruit later in important generalizations. The chief work of Mr. Binnie during his six years in India was the construction of the Nagpore Water Works, his description of which won for him the Telford Medal of the Institution of Civil Engineers. On returning to England he filled the position of Water Engineer to the Corporation of Bradford, and had much interesting work in extending the water supply of that city. During the fifteen years of his stay in Bradford he continued the study of rainfall which he had commenced in India, and entered into his long connection with the work of the British Rainfall Organization. He set up a great number of new rain gauges, not only on the old gathering grounds, but in valleys as far afield as the Wharfe and Nidd. For this purpose he adopted the deep-rimmed 5-inch pattern of monthly gauge, which has since become widely known as the Bradford rain gauge.

In 1890 Mr. Binnie came to London as Chief Engineer of the London County Council, and although his duties were now much more varied than before he never lost interest in the study of rainfall. It was in 1892 that he read a most important paper to the Institution of Civil Engineers, entitled, "On mean or average annual rainfall and the fluctuations to which it is subject." This paper discussed a number of long rainfall records in all parts of the world, with the object of ascertaining first the length

of period necessary to yield an average which should represent the normal value of the average rainfall, and, second, the relation which years or groups of years of extreme rainfall bore to the average. One of the conclusions arrived at was that a period of more than 30 years was necessary to give an average not differing greatly from the average of a much longer period. Another that the wettest year in a long record might be as much as 151 per cent. of the average, while the driest year might be as little as 60 per cent. of the average. A third relation pointed out was that the mean rainfall of the driest three consecutive years was about 76 per cent. of the average annual rainfall. The relation which is taken as the basis of all calculations of the reservoir capacity required in order to utilize the rainfall of any particular area in the British Isles is 80 per cent., as suggested by Mr. Symons twenty-five years earlier, and the difference is less than one would expect, when the wider range of Mr. Binnie's investigations is considered.

The London County Council, as the Water Authority of the Metropolis before the formation of the Metropolitan Water Board, considered various schemes for increasing the supply, and their Engineer planned an extensive scheme in 1893 for obtaining water direct from the valleys of Wales. Under the supervision of Mr. Symons rain gauges were set up over a large part of Wales extending from the watershed of the Elan on the north to the basin of the Usk on the south. The utilization of the Welsh valleys for London water supply was a project very near to the heart of Sir Alexander Binnie, and his plans showed that an ample supply of the purest water from Wales could easily be obtained by gravitation. When the Metropolitan Water Board took over the responsibility for the supply of London the official observations of rainfall in Wales were stopped, and it was decided to continue to pump the water required from the Thames and Lea and from deep wells in the chalk.

Though Sir Alexander's name was destined not to be associated with London's water supply, it will always be connected with the improved drainage schemes for the London area, and in particular with the roadways under the Thames at Blackwall and Greenwich, where the river could not be bridged. The Blackwall Tunnel was opened in 1897, and Sir Alexander was knighted in the same year. He retired from official work in 1902, but, until a few years before his death, he practised as a consulting engineer at Westminster, establishing the firm of Binnie, Son, and Deacon, in partnership with Mr. W. J. E. Binnie (the inventor of a very ingenious

electrical recording rain gauge) and Mr. Martin Deacon, nephew of the late Dr. G. F. Deacon.

When Sir Alexander Binnie became President of the Institution of Civil Engineers in 1905, he delivered a remarkable address to the members, tracing the origin of civil engineering in England and contrasting the difficulties which pioneers such as Brindley, Smeaton, Watt, Rennie and Telford experienced in the early days of canals, roads and railways, with the advantages which professional training conferred on the young engineers of to-day. In this address he developed a favourite thought that the advance of civilization was bound up with the development of engineering science. In all his work he looked beyond the mere technical or local problems and drew inspiration from the wider outlook congenial to his philosophical turn of mind. In 1913 he published a book, entitled, "Rainfall, Reservoirs, and Water Supply," summarizing the outcome of his life-long experience.

Personally he had a remarkable geniality of manner and a calm, untroubled way of discussing the problems on which he was engaged, which made a consultation with him something to look forward to and remember. His wide experience in many lands and his sympathetic tolerance of views he did not himself hold, gave a special quality to his conversation as he sat wreathed in cigar-smoke, always busy but never in a hurry.

When Trustees were being selected to take over the British Rainfall Organization in 1910 he was the natural and inevitable choice as a representative of the engineering profession, and he readily accepted the responsibility and always continued to take a kindly interest in the development of the branch of science for which he had himself done so much.

ON AN IMPROVED METHOD OF FIXING RAIN GAUGES.

By SIR HERBERT GEORGE FORDHAM.

THE ordinary arrangement adopted for ensuring the stability of rain gauges when fixed in the open on a lawn or other natural surface seems to me by no means satisfactory, and an improved method seems worthy of description.

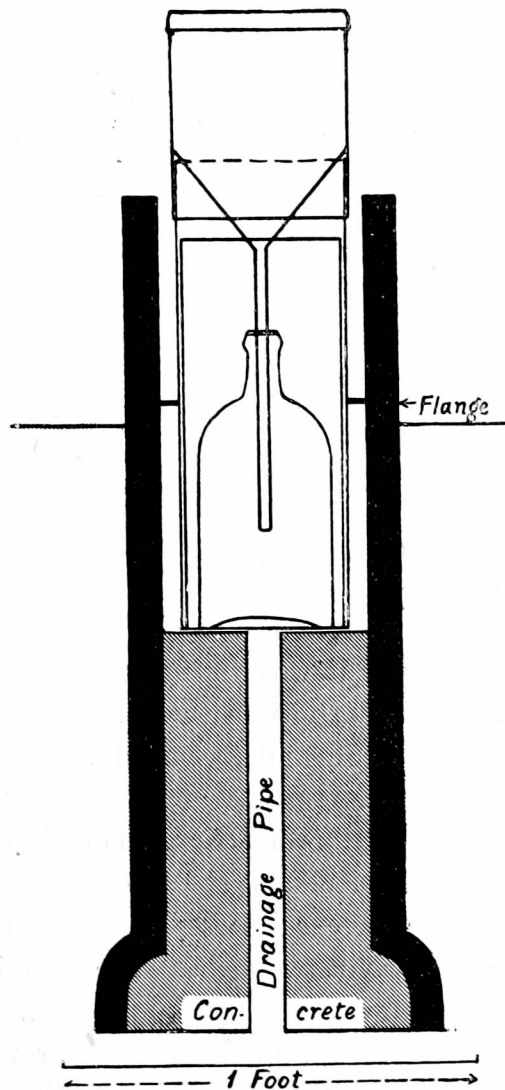
Some years ago I adopted an arrangement of a much more solid and permanent character, not involving much initial expenditure, which, on trial has been so satisfactory that I consider it suitable for general adoption. It may not be new, although I am not aware of its use elsewhere.

My method in fixing an ordinary 5-inch gauge is to select a well-shaped 6-inch glazed socket drain-pipe of the ordinary pattern and to fix it in the ground with the socket end downwards and the upper edge projecting about 6 inches above the surface level. About 10 inches of the bottom part of the upright pipe is filled in with cement concrete with a smooth horizontal cement top surface, upon which the gauge will stand when fixed. A drainage tube should pass through this concrete filling to take off any water which, running down the side of the gauge, might otherwise accumulate on the top of the concrete.

The stand for the gauge itself is now complete. It is so simple and solid that it may be expected to last for a very long period without movement or decay. The brown ware has a good appearance in association with the copper work of the gauge itself, its circular form adapts itself to the gauge, and it presents no angles for destruction by gardening tools carelessly used. All that is now necessary for fixing the gauge is the soldering on to the lower and fixed portion of the gauge itself of a thin projecting flange or rim of copper, at a few inches from its upper edge. This flange should be a trifle larger than the upper aperture of the drain-pipe as fixed, and should be reduced by filing so as *exactly* to fit the pipe and to adapt itself to any trifling irregularities of shape or surface in the

latter. By a little care, even if the drain-pipe itself is not absolutely regular in form or upright in the ground, the gauge can be thus fixed, once and for all, rigidly in its correct position.

This general plan is adaptable to the ordinary pattern of 5-inch Snowdon gauge, the height of the rim of the drain-pipe above ground, the level of the top surface of the concrete filling, and the position of the retaining copper rim being varied according to the dimensions of the gauge, receiver, etc. For a gauge of circular orifice of larger diameter, a drain-pipe of corresponding size would be chosen. The whole arrangement is shown in section to scale in the accompanying diagram.



THE SNOWSTORMS OF FEBRUARY AND MARCH, 1916.

By L. C. W. BONACINA.

IN the year 1916 conspicuous snowfall in the British Isles was confined to the months of February, March, and December. In February and March, 1916, the snowfall was exceptionally intense, and associated with somewhat unusual barometric conditions, and its effects are likely to be long remembered in many districts. Whilst the data available from the remarks of the Observers and from other sources are not sufficient to render a detailed study possible, they serve to supplement the general outline of information dealt with provisionally in *Symons's Meteorological Magazine* for April, 1916. (Vol. 51, p. 37).

Distribution :—After the break-up of the hard frost of November, 1915, snow was little in evidence during December, 1915, and almost entirely absent during January, 1916, a very rare event indeed. On this occasion, however, the balance of nature was quickly redressed, inasmuch as the severe snowstorms that followed at the end of the cold season will cause the year 1916 to stand out conspicuously in the meteorological annals of Great Britain. No sooner had February entered than the barometric depressions, which had for the most part taken a course well to the north of these islands during the exceptionally warm January, began to take a more southerly route, causing a rapid alternation between warm air currents from the south-west and cold winds from the west and north-west. These conditions prevailed throughout the first three weeks of February, and it was during the temporary predominance of the colder winds that intermittent snowfalls, locally very heavy in Scotland and the north of England, occurred fairly generally. Neither in intensity nor distribution were these snowstorms, which accompanied quite a common distribution of barometric pressure, in any sense abnormal. They proved to be the precursors of the intense snowstorms which characterized the ensuing six weeks, in accordance with the manner in which extreme types of weather conditions always seem to be introduced by a longer or shorter series of preliminary events on a smaller scale. About February 21st the pressure situation became the reverse of that which held in January, the highest barometer being in the north, thus setting

up a gradient for easterly winds over England. With this change the temperature dropped to the freezing point and during the last ten days of the month the whole of England, except the extreme north, was visited by a succession of heavy snowfalls, which were especially severe in the elevated regions of Dartmoor, Exmoor, the Cotteswolds, and the mountain ranges of Wales. With the arrival of March the most intense phase of the snow spell was over, so far as the greater part of England was concerned, but the snowstorms had extended to the north of England and south of Scotland, causing great accumulations and gigantic drifts in the Pennines and Southern Uplands. Although during the first three weeks of March the snowy easterly type of weather persistently held, a rise of temperature in the lowlands of England, occasioned by a complicated system of barometric depressions taking irregular courses in the neighbourhood of the English Channel, brought rain instead of snow in the south. It was only in the Uplands that the cold was great enough to cause the heavy precipitation during all this time to take the form of blizzards of snow—a prolonged succession of paralyzing snowstorms isolating moorland farms and villages, burying sheep, obliterating roads, and rendering unworkable for weeks such elevated railways as the High Peak of Derbyshire, and that further north over the Pennine chain connecting Kirkby Stephen, in Westmorland, with Barnard Castle, in Durham. During the first three weeks of March, therefore, the distribution of snowfall seems to have been distinctly orographic, *i.e.*, related to the height of the land. After March 25th a reversion to a more westerly type of conditions marked the final stage of the snow spell. A deep cyclonic depression in the north brought some heavy falls of snow in Scotland, whilst another small but deep depression moving across southern England on the 27th and 28th caused a destructive snow gale which uprooted countless elms and other trees and overthrew telegraph poles throughout much of the south-eastern part of England. Although this storm brought heavy snow locally it was more remarkable, on the whole, for wind than precipitation, and it proved to be the end of the long period of inclement weather. During the first half of April the weather continued rather bleak, but there was no significant snowfall in that month.

Depth :—Owing to the paucity of systematic records and to the fact that much of the snow which fell in March was of a wet character, soon melting, it is impracticable to give any cartographical representation of either aggregate or actual depths of snow such as would serve any useful

purpose ; but from such material as has been supplied to the British Rainfall Organization, from information given in the Weather Reports of the Meteorological Office, and from newspapers and other sources, it can be stated with some confidence that over much of the lowlands of England the aggregate of the numerous heavy and light falls during the two months amounted to as much as 3 feet, and that in some of the mountainous regions of England, Wales and the south of Scotland to as much as 10 feet, the difference being attributable partly to the lower temperature in the highlands and partly to heavier precipitation in those regions. Owing to the frequent thaws preventing accumulation the actual depths of snow recorded at any time as lying in the lowland districts bear, on the whole, a rather small ratio to the high aggregate figures for the whole period just quoted. But there were at times some thick coverings, and it would be near the truth to say that during the last week of February, when the snowfalls were fairly dry, the average depth of snow lying over England was 8 inches, with considerable variation from place to place. As regards the hill districts there seems to be little doubt that in the Welsh mountain ranges, the elevated moorlands of the Devonian peninsula, the Pennine chain and southern Scottish uplands, snow at times was lying 2 to 5 feet deep, whilst drifts estimated at from "20 to 50 feet" are frequently referred to in the reports. In the Black Mountains of Brecon the snowstorms appear to have been extremely severe, and Mr. Gethin Jones, who has had unrivalled experience, estimates the depth of snow lying on the hills in March at nearly 5 feet, the last drifts not disappearing till a burst of summer heat set in towards the end of May. For the whole period he estimates the aggregate snowfall in the district at some 10 feet, of which 8 feet fell in less than three weeks, between February 20th and March 11th, a rate of fall apparently as great as normally occurs in the excessively snowy mountain ranges of western North America. At Wearhead, in the Pennines, at an elevation just over 1,000 feet, the melted snowfall for March is given as 9.96 in., which, on the assumption that nearly all the moisture really did fall as snow, means a depth of some 10 feet of snow in the aggregate ; at any rate it is stated that the "worst snowstorm for thirty years continued throughout the month." Further light on the relation of the Pennine chain to the snowfall in March seems to be thrown by the rainfall map of the British Isles for March, 1916.* On this map the position and shape of

* See page [76].

the Pennine range is clearly delineated by an area of general precipitation of 4 to 6 inches of rain, *i.e.*, 4 to 6 feet of snow in the aggregate ; and it is interesting to note that the country lying west of the Pennines, that is to leeward of the prevailing easterly wind, was much drier than that lying to the east. At all events it seems probable that taking the month of March, as a whole, the Lake District mountain group, shielded by the Pennines, suffered comparatively little from the snowstorms ; and similarly it would not appear that the Snowdon block in North Wales experienced the same intensity of snowfall as the more southern Welsh ranges like the Black Mountains, unprotected by very high ground to the east. There are certainly indications that in March, 1916, the Pennine uplands threw a decided "snow-shadow." On the Dartmoor plateau, in Devonshire, where snowstorms, if less frequent on the average of years than on the north-country fells, occur at times with formidable severity, snow-drifts 10 feet in depth were very common in March, and the snowstorms between February 21st and March 27th, 1916, were recorded as the greatest since the tremendous blizzard of March, 1891, when all the snow came down in three days. It should not be forgotten, however, that other bad months have occurred in the interim, and Dartmoor was snow-bound pretty badly in the March of 1901. As to how the Scottish Highlands fared during the snow period of 1916 it is difficult to speak definitely, owing to the scantiness of data. Although heavy falls occurred in the earlier part of February there seems no ground to suppose that the Grampian mountain system, normally the snowiest portion of the kingdom, experienced the same intensity of weather as the uplands in the south of Scotland and north of England, and the general character of the weather in March was drier in Scotland than in England. There is very little information about the depth of the snowfalls in Ireland, but there can be no doubt that the western isle suffered far less than Great Britain in February and March, 1916.

In the London district the aggregate snowfall for the period was at least 2 feet, and along the northern heights at Hampstead it was nearer 3 feet, or more snow than had fallen at any time since March, 1909, when, however, the intense cold allowed deeper accumulations.

Considered as a snow-spell of more than a week's duration, affecting the whole country, it would appear that the period of six weeks in 1916 was the most intense since the three weeks January 26th to February 16th, 1900, excepting possibly February 26th to March 16th, 1909.

THE MEASUREMENT OF RAINFALL DURATION.*

By CARLE SALTER.

THE desirability of obtaining accurate measurements of the duration of rainfall as a supplement to records of its amount is sufficiently obvious, for until some information of the kind became available our ideas of rainfall frequency were dependent upon statistics of the number of rain days, a notoriously broken reed, or upon rough, non-instrumental estimates of rainfall duration, which could hardly be regarded as scientific observations. The value of recording the duration of sunshine as an element of climate has long been recognized, and sufficient data have been collected to enable maps of the normal distribution to be constructed. There seems no adequate reason why the systematic recording of rainfall duration should not be developed on similar lines.

Both Mr. Symons and Mr. Gaster, more than fifty years ago, referred to the desirability of obtaining records, and in 1869 Mr. F. E. Sawyer brought together a few non-instrumental records of duration made at Brighton and at Bogside, in Aberdeenshire.† All other early references to so-called rainfall duration appear to be based merely upon frequency values deduced from hourly observations. A great deal of ingenuity was expended during the latter half of the nineteenth century in devising various forms of automatic rain gauges, and it is curious to find that their records were apparently not used for this elementary purpose. In 1880, however, Mr. Baldwin Latham published in *British Rainfall* a series of records of measured duration at Croydon, and these records were continued without a break till 1916. These probably rank as the earliest observations in any way comparable with modern duration records. In 1903 the records of a self-recording gauge established at Seathwaite by Mr. Symons were discussed in a paper by Dr. H. R. Mill read to the British

* Abstract of a paper published in the *Quarterly Journal of the Royal Meteorological Society*, Vol. xlii. No. 181. January, 1917.

† See *British Rainfall*, 1869, p. 10 ; 1870, p. 35 ; 1871, p. 42.

Association at Southport in 1903. A second paper on the same subject was read before the Royal Meteorological Society in April, 1905.*



DISTRIBUTION OF STATIONS RECORDING DURATION OF RAINFALL UP TO THE END OF 1915.

Block kindly lent by the Royal Meteorological Society.

* *Q.J.R.Met.Soc.*, Vol. **xxxi.**, 1905, p. 229.

In 1904 Dr. Mill made an analysis of the traces from the Casella Standard gauge at Camden Square from 1881 to 1904, and published the results *in extenso* in *British Rainfall, 1904*. In the volume for the previous year a section was devoted for the first time to records of measured duration. The number of records received grew very slowly, and five year later *British Rainfall, 1908*, contained only ten, but the introduction of less expensive self-registering rain gauges during the last few years has provided a stimulus, and in *British Rainfall, 1915*, the number had grown to 48 records.

The accompanying map shows how far these records, and others now discontinued, give any representation of the varied climates of the British Isles. The approximate position of each station is shown by a round dot, or by a triangle if the record is no longer kept up. The total number of stations for which any information had been received up to 1915 was 58.

The whole of these records, with the exception of one or two which were received too late, have been published year by year in *British Rainfall* and form a nucleus from which valuable climatological information may be deduced, but the present paper deals rather with the methods, and preliminary difficulties encountered, than with the results, except in so far as the latter illustrate the former.

In all the types of self-registering rain gauge employed for measuring rainfall duration the record is traced on a drum by an integrating curve which indicates the intensity of the rainfall by its inclination to the horizontal lines on the chart. When rain is not falling the pen travels parallel to the base line. In order to obtain a measurement of the duration of rainfall for the period covered by the chart all that is required is to measure the periods during which the trace is not parallel to the base line in terms of the time-scale of the chart, the result being expressed in hours and tenths of an hour. In order to get results of any value the drum of the gauge should make a complete revolution every 24 hours; in gauges with drums revolving only once in a week the scale is too restricted for accurate measurement. It is also important that the trace should be a continuous line. Gauges of the "step-by-step" type, recording each .01 in. or .005 in. by a separate vertical movement of the pen, give good enough results when rain is falling heavily and continuously, but give no indication of the true duration during light rain. In placing the chart on the drum of any self-registering gauge very great

care must be taken to set it perfectly straight ; otherwise the pen will trace a line at a slight inclination to the base line when no rain is falling, and even if rain is falling the degree of the inclination will be affected.

No self-recording rain gauge will work well and consistently without constant care and attention. Any friction in the working parts may cause it to give seriously erroneous results. As an example of this, in gauges of the float type, where the pen is actuated by the movement of a float which rises as the rain enters the receiver, should there be any tendency for the float-guides to jam, the pen shows no vertical movement till the pressure of the water becomes great enough to overcome the resistance, and when this happens it rises with a jerk, so that the slow and steady rain of an hour may be recorded as if it had fallen in a minute. In the record of the amount of rain registered this causes no error, but in the record of duration the error is liable to be large. Proper lubrication * of the working parts prevents this type of failure.

In order that there may be no break in the record during snow, some means must be introduced to melt snow as it falls so that it shall not accumulate in the funnel of the gauge. In some gauges a small paraffin lamp is used, but a night-light is usually sufficient and is less liable to over-heat the gauge and give rise to evaporation.

It is strongly recommended that an ordinary direct-reading rain gauge should always be placed alongside a self-registering gauge as a check, and if the two show any appreciable difference in the amount recorded the latter should be overhauled. Faulty recording usually arises from unequal wearing of some part of the mechanism, or from clogging due to dust adhering to dried oil.

In case of any failure or partial failure of the gauge, the duration should be interpolated as far as possible by eye observation and it is therefore advisable, if possible, to compute durations day by day rather than to allow charts to accumulate till the end of the month or year when the particular circumstances may have been forgotten.

Given a suitable self-recording rain gauge properly handled, it is a very simple matter to measure the duration during heavy or moderately heavy rain. With very light rain, however, and it must be remembered that from the point of view of duration the very light rain forms a large fraction of the whole, the element of personal equation comes into play.

* Either by clock oil or graphite.

Observers are asked to include in the duration total all periods when the curve is perceptibly rising ; but what is perceptible to one person may be imperceptible to another, and there is no doubt that some of the inconsistencies in duration records can be attributed to this cause. A close analogy occurs in the measurement of the duration of sunshine but the discrepancies are probably larger in the case of rainfall duration.

The personal element is, however, not the sole source of trouble. The improvements which have been introduced in self-registering rain gauges in the last few years have nearly all tended towards producing an instrument of higher sensitiveness, so that if we compare, for example, the traces of the old Casella Standard with those of Baxendell's new "Fernley," or improved "Halliwell" gauge, it is obvious at once that whilst the Fernley is capable of recording rain hardly more intense than a Scotch mist, the older gauge requires distinctly heavier rain to set it in motion. To take an extreme instance, therefore, we might quite possibly have the case of a day, such as sometimes occurs, when precipitation is quite perceptible for many hours, but so light that it produces only a few drops in the rain gauge. In such circumstances the Fernley may show a slow gradual rise of the curve, quite distinguishable on its very open-scale chart, and a duration of 10 or 12 hours, whilst the less sensitive gauge records a day of no rain. If the duration is measured in one case as 12 hours and in the other as 0, we have the elements of a discrepancy of the first magnitude.

There are not many data upon which to base a comparison between the results from different types of self-registering rain gauges, because for this purpose it is necessary that two or more gauges should have been maintained side by side for a considerable period and the curves measured by the same computer. Valuable records of this kind have been kept during the last few years by Mr. A. J. Walker, of Thirsk, who has at present four gauges of different patterns at work. Two of these, a Halliwell and a Hyetograph, are among the most widely used instruments.* These records cover a period of 17 months up to the end of 1915. A Halliwell and a Hyetograph were also used simultaneously at Aberclyd, in Breconshire, for three months in 1912, and provide interesting confirmation. The following table gives the comparative results. The observations are grouped in three-monthly periods because the relation appears to differ at different seasons : in individual months rather greater variations are sometimes found.

* A full description of these two gauges is given in *British Rainfall*, 1908, pp. 22-27

Comparison of Rainfall Duration from Halliwell and Hyetograph Gauges.

THIRSK.					ABERCLYD.				
Period.	Rain- fall.	Duration.			Period.	Rain- fall.	Duration.		
		Halli- well (A.) hrs.	Hyeto- graph (B.) hrs.	B as percent- age of A.			Halli- well (A.) hrs.	Hyeto- graph (B.) hrs.	B as percent- age of A.
1914.	in.					in.			
Aug.-Sep. ..	3.08	49.9	44.8	90					
Oct.-Dec. ..	9.72	237.8	210.2	88					
1915.					1912.				
Jan.-Mar. ..	8.30	255.5	229.0	90	Jan.-Mar. ..	20.72	516.5	451.9	88
Apr.-June ..	2.73	77.3	75.7	98					
July-Sep. ..	8.16	127.1	116.2	91					
Oct.-Dec. ..	8.06	218.6	197.0	90					
Winter	26.08	711.9	636.2	89	Winter ..	20.72	516.5	451.9	88
Summer	13.97	254.3	236.7	93	..	..	..	..	..
Total	40.05	966.2	872.9	90		..	..	..	..

The periods are too short to give conclusive results, but there is a suggestive consistency. The durations for the two gauges agree more closely in summer than in winter, a result no doubt due to the greater prevalence of rainfall of very small intensity in winter. It is not impossible that some of the disparity may arise from unequal loss by evaporation in the two gauges. The Halliwell is certainly much more air-tight than the Hyetograph, and the air space within the cover is considerably smaller.* A variation of 10 per cent. between the records of two of the most widely used self-recording gauges is not a matter to be ignored, and points to the necessity of finding some means of comparing the results from other patterns.

If we take the records from 48 stations published in *British Rainfall, 1915*, the correlation co-efficient between the rainfall amount and duration is +0.80 with a probable error of 0.04. Correlating the total rainfall of each year at Camden Square back to 1881 with the total duration, the coefficient and probable error give an identical result, +0.80 and 0.04. This shows clearly that there is a close relationship between the amount and the duration. On the other hand, correlating the *mean rate of fall per hour* with the total rainfall for the 1915 records the coefficient is only +0.32 with a probable error of 0.09, and for the 34 years at Camden Square the coefficient is 0.00 with a probable error of 0.12, showing

* Mr. Halliwell attributes the difference not to the air space, but to the fact that in the Hyetograph the ratio of the collecting area of the funnel to the wetted surface is 20:100, whilst in the Halliwell it is 30:100.

that the distribution and incidence of mean rainfall intensity is dissimilar to that of total rainfall. Plotting the mean rain per hour for each station for any year on a map, there appears to be no geographical relationship between the intensity figures, and the differences between adjacent stations are frequently larger than the differences between stations of quite different climate. For instance, Kew and New Malden, about 5 miles apart, and with no appreciable difference of climate, give, in 1915, .069 in. and .042 in. per hour, respectively, whilst Kinlochleven, in the West Highlands and Huddersfield, with entirely different climates, give .046 in. and .047 in., respectively. Grouping the values of rate per hour for 1915 according to the pattern of gauge indicates that the value is in some measure dictated by the kind of instrument used.

Mean Rate of Rain per Hour in 1915.

Pattern of Gauge.	Number of Records.	Mean. in.	Highest. in.	Lowest. in.
New Casella Recorder	3	.045	.048	.042
Halliwell	6	.050	.061	.040
Hyetograph	22	.050	.063	.040
Beckley	6	.064	.078	.054

Out of the 22 Hyetographs 13 give values below .050 in. and only one above .060 in. The three new Casella Recorders all give low values, whereas the Beckley figures are all high. The mean value for the Hyetographs agrees with that for the Halliwells, which is not what one is led to expect from the detailed comparisons at Thirsk and Aberclyd. A high rate per hour of course indicates a relatively low duration, and the main conclusion we are able to deduce is that, generally speaking, the new Casella Recorder yields the largest duration values and the Beckley the smallest among the gauges represented.

The problem of standardizing rainfall duration records is one of peculiar difficulty. A solution might be found either in insisting on a standard type of instrument or in a modification of the method of measuring the traces. If we desire to adopt the latter course, it is clear that since one gauge will register in very light rain, whilst another will not do so, we must either leave the very light rain out of account altogether or place it in a different category. A great many very tedious experiments would be necessary in order to hit upon a suitable minimum intensity below which the duration of rain should be excluded. If this is put too low

it will fail in its object; if too high, we run a risk of getting a false impression of the prevalence of very light rainfall and its geographical distribution. A test is provided by an analysis of the Halliwell and Hyetograph traces made at Thirsk in 1915, measuring the total visible duration and, separately, the duration exceeding the rate of $\cdot 01$ in. in 3 hours ($0\cdot 1$ mm. per hour). This limit was selected as likely to be perceptible in almost any kind of gauge, and yet a rate below which rainfall is not of any practical importance. The records at Aberclyd for 3 months in 1912 were also analysed in the same way and gave generally confirmatory results, and further general confirmation was obtained from an examination of the Camden Square records.

Period.	Rain-fall. in.	Total Duration.			Duration above $\cdot 003$ in. per hour.			Duration above $\cdot 003$ in. per hour as percentage of Total Duration.	
		Halli-well. (A.) hrs.	Hyeto-graph. (B.) hrs.	B as percent- age of A.	Halli-well. (C.) hrs.	Hyeto-graph. (D.) hrs.	D as percent- age of C.	Halli-well.	Hyeto-graph.
1915.									
Jan.-Mar. ..	8.30	255.5	229.0	90	229.7	210.7	88	90	92
Apr.-June ..	2.73	77.3	75.7	98	69.1	65.4	95	90	86
July-Sept. ..	8.16	127.1	116.2	91	105.5	103.9	98	83	89
Oct.-Dec. ..	8.06	218.6	197.0	90	198.0	184.2	93	91	94
Winter	16.36	474.1	426.0	90	427.7	394.9	92	90	93
Summer	10.89	204.4	191.9	94	174.6	169.3	97	86	88
Total	27.25	678.5	617.9	91	602.3	564.2	94	89	91

The results show that, although on the whole year the records from the two gauges are brought slightly more into accord, during part of the period the disparity is even increased by omitting the very light rain. On the whole year the duration is reduced by 11 per cent. for the Halliwell and by 9 per cent. for the Hyetograph. This appears to indicate that, whilst the limit tentatively selected is high enough to affect the duration values by 10 per cent., it is considerably too low to eliminate the original discrepancy between the results for the two gauges.

As mentioned above, we are still much in the dark as to the relative loss by evaporation in the two gauges. It is possible that this may be considerable even in winter, since the risk of snow falling at Thirsk is sufficiently great to make it necessary to keep a lamp burning in the gauge on a large number of days.

In comparing the records of two gauges like the Halliwell and Hyetograph, it must be borne in mind that sensitiveness in recording light

rainfall is not the only desideratum in a self-recording instrument, and that the very small number of failures to record with the Hyetograph, compared with almost any other pattern, give this instrument some great advantages.

So little has been written on the subject of rainfall duration, and it appears so well worthy of the attention of meteorologists, that it is to be hoped that in the near future the preliminary obstacles to which attention has been drawn may be cleared away. When that has been accomplished, the element of rainfall duration may take its proper place among the recognized factors of climate, where it has an importance equal to that of the duration of sunshine.

THE STAFF OF OBSERVERS.

WHEN the most rapid extension in the number of rainfall Observers was taking place at the beginning of the present decade each successive volume contained nearly 200 more records than its predecessor, 200 old records disappearing and 400 new records finding a place. In 1913 various causes led to the increase dropping back to what might be looked upon as the normal figure of about 100, and when after the outbreak of the war the annual increase was 83 for 1914, it could hardly be said that the depression was appreciable. In 1915, however, the usual gain was changed to a net loss of 41, and as the effect of the continuance of the war on affairs at home is cumulative, we are not surprised to find that the returns sent in for 1916 are 220 fewer than in the previous year. We are of opinion that many records which have not reached us are still being continued, as we know of instances in which corporations have been unable on account of reduced staff to have the figures copied out. We have also heard of instances in which private Observers have mislaid the 1916 figures, and we think that these are representative rather than exceptional cases.

Accordingly we have not attempted to analyze the gains and losses in the usual way this year, as we cannot distinguish the temporary from

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
1916.....	290	...	...	510	...	...	...

the permanent losses without an amount of correspondence that would be troublesome to Observers who are engaged on public work and altogether out of proportion to the value of the information when obtained. We therefore content ourselves with the statement that 290 records in this volume did not appear in 1915, and that 510 which appeared in that year

are absent. The following summary shows how the different countries were affected, and details for the individual counties appear in the con-

1916.	Total Gain.	Total Loss.	Difference.	Per cent. decrease.
England	209	380	—171	4.1
Wales	26	34	— 8	1.8
Scotland	41	63	— 22	2.8
Ireland	14	33	— 19	6.6
British Isles	290	510	—220	4.1

densed table of gains and losses. It may be pointed out that the loss of 220 stations corresponds only to 4 per cent. of the whole number, and that the only years in which a larger number of records has appeared are 1912 to 1915. A few remarks of a less general character may be of interest :—

England showed an increase in four counties and no diminution in five ; but the falling off was serious in twelve counties. This was by no means worst on the east coast, so that the fear of hostile raids cannot be held responsible. Norfolk and Suffolk were bad, but Essex was very good, showing a net increase of 3 stations, and Lincolnshire showed little loss, while Cambridgeshire had only 1 gain to set against 12 losses, being nearly the worst affected county in the British Isles. The extreme western counties and several in the Midlands showed many losses, but no geographical grouping can be made out. In the north, Cheshire had deplorable losses, but Lancashire had a loss of only 1 ; the North Riding of Yorkshire lost 9, while Durham showed a gain of 1 record. The whole loss in England was 4 per cent. of the 1915 number.

Wales, but for Breconshire, where the stations are 8 fewer than last year, would have shown very little change for the worse, and we hope that many of the missing records have not stopped ; as it is, the number of stations is only 2 per cent. less than last year.

Scotland, which, in the second year of the war continued to improve in the number of rainfall records, now shows a loss of 3 per cent. of the 1915 returns. This is almost entirely due to two large groups of gauges kept by public bodies, which many applications failed to secure. The gauges were duly read and these are the only groups of records kept by public authorities in the British Isles which have not been sent in. The worst losses are in Inverness-shire. We note with pleasure an improvement in the south of Scotland, especially in Midlothian.

Ireland retains its old character for steadiness in rainfall work, no less than 12 counties out of the 33 show neither a gain nor loss as com-

pared with last year, and in 2 more the gains balanced the losses. Three counties, *viz.*, Kerry, King's County and Down, show a marked improvement, with practically no loss, and only four, Clare, Wicklow, Dublin and Fermanagh, are seriously worse than last year; but there are so few rainfall stations in Ireland that the net loss of 19 amounts to $6\frac{1}{2}$ per cent. of the total number in 1915.

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

Years.	England.	Wales.	Scotland.	Ireland.	British Isles.	Change from 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
1916 ...	3711 ...	440 ...	772 ...	269 ...	5192 ...	-220	4·3

Difference from 1915—

Decrease 171 ...	8 ...	22 ...	19 ..	220	0 2
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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* 1916, and in heavy type the number of records per 100 square miles of area. The letter *a* stands for the number printed in 1915. In the County of London for example $a-6+4=77\ldots 66$ means that 6 of the records printed in 1915 are not available in 1916 whilst 4 new records appear, making the total number 77, or 66 per 100 square miles of area within the county.

ENGLAND.

London $a-6+4=77$ 66	Hertfordshire $a-7+7=84$ 13
Surrey $a-22+17=224$ 31	Buckingham ... $a-2+3=44$ 6
Kent $a-25+13=165$ 11	Oxfordshire ... $a-13+5=68$ 9
Sussex $a-21+12=166$ 11·5	Northampton $a-6+1=69$ 7
Hampshire $a-13+13=158$ 10	Huntingdon ... $a--2+0=9$ 2·5
Berkshire $a-7+4=62$ 8·5	Bedfordshire ... $a-3+0=25$ 5·5
Middlesex $a-4+4=63$ 27	Cambridge $a-12+1=47$ 5·5

ENGLAND—(continued).

Essex $a-7+10 = 120$ 8	Rutland $a-2+0 = 5$ 3·5
Suffolk $a-12+6 = 58$ 4	Lincolnshire ... $a-4+3 = 85$ 3
Norfolk $a-13+4 = 80$ 4	Nottingham ... $a-3+2 = 63$ 7·5
Wiltshire $a-6+6 = 62$ 4·5	Derbyshire $a-8+4 = 89$ 8·5
Dorset $a-14+11 = 74$ 7·5	Cheshire $a-11+0 = 70$ 7
South Devon ... $a-19+14 = 150$ 9	South Lancs ... $a-4+3 = 111$ 16
North Devon ... $a-7+2 = 42$ 4·5	Central Lancs $a-6+3 = 79$ 14·5
Cornwall $a-7+4 = 64$ 4·5	North Lancs ... $a-4+6 = 70$ 11·5
Somerset $a-14+6 = 144$ 9	Yorkshire, W.R. $a-17+13 = 338$ 12
Gloucestershire $a-11+2 = 100$ 8	Yorkshire, E.R. $a-2+2 = 28$ 2·5
Herefordshire $a-9+2 = 45$ 5·5	Yorkshire, N.R. $a-12+3 = 103$ 5
Shropshire $a-4+3 = 47$ 3·5	Durham $a-0+1 = 48$ 5
Staffordshire ... $a-3+2 = 52$ 4·5	Northumberl'd $a-8+5 = 53$ 2·5
Worcestershire $a-3+4 = 57$ 8	Cumberland .. $a-7+2 = 68$ 4·5
Warwickshire $a-10+1 = 51$ 5·5	Westmorland $a-4+0 = 56$ 7
Leicestershire $a-6+1 = 38$ 4·5	

MONMOUTH AND WALES, &c.

Monmouth $a-5+4 = 41$ 7·5	Flint $a-2+1 = 14$ 5·5
Glamorgan $a-2+1 = 61$ 7·5	Denbigh $a-2+3 = 35$ 5
Carmarthen ... $a-1+0 = 10$ 1·1	Merioneth $a-2+1 = 15$ 2·3
Pembroke $a-1+3 = 19$ 3	Carnarvon $a-3+5 = 48$ 8·5
Cardigan $a-0+0 = 14$ 2	Anglesey $a-1+1 = 11$ 4
Brecon $a-10+2 = 95$ 13	Isle of Man .. $a-0+1 = 10$ 4·5
Radnor $a-2+1 = 24$ 5	Channel Isles $a-0+3 = 21$ 28
Montgomery ... $a-3+0 = 22$ 3	

SCOTLAND.

Wigtown $a-0+0 = 9$ 2	Selkirk $a-1+1 = 8$ 3
Kirkcudbright $a-0+1 = 18$ 2	Peebles $a-0+0 = 20$ 6
Dumfries $a-1+0 = 27$ 2·5	Berwick $a-0+2 = 13$ 3
Roxburgh $a-2+1 = 13$ 2	Haddington ... $a-1+2 = 10$ 4

SCOTLAND—(continued).

Midlothian.....	$\alpha - 0 + 5 = 54$	14.5	Forfar	$\alpha - 2 + 0 = 39$	4.5
Linlithgow.....	$\alpha - 0 + 0 = 21$	17.5	Kincardine.....	$\alpha - 1 + 0 = 14$	3.5
Lanark.....	$\alpha - 8 + 1 = 39$	4.5	Aberdeen.....	$\alpha - 2 + 4 = 33$	1.7
Ayr	$\alpha - 2 + 4 = 38$	3.5	Banff.....	$\alpha - 1 + 0 = 9$	1.4
Renfrew	$\alpha - 2 + 1 = 38$	16	Moray ..	$\alpha - 0 + 3 = 14$	3
Dumbarton ...	$\alpha - 8 + 1 = 17$	6.5	Nairn	$\alpha - 0 + 0 = 4$	2.5
Stirling	$\alpha - 2 + 2 = 38$	8	Inverness	$\alpha - 15 + 1 = 52$	1.3
Bute	$\alpha - 0 + 1 = 7$	3	Ross	$\alpha - 2 + 0 = 24$	0.8
Argyll	$\alpha - 4 + 2 = 70$	2	Sutherland	$\alpha - 1 + 0 = 11$	0.5
Clackmannan	$\alpha - 1 + 0 = 4$	7.5	Caithness	$\alpha - 0 + 1 = 11$	1.6
Kinross.....	$\alpha - 0 + 0 = 4$	4.5	Orkney.....	$\alpha - 0 + 1 = 12$	3
Fife	$\alpha - 1 + 4 = 38$	7.5	Shetland ..	$\alpha - 1 + 3 = 6$	1.1
Perth	$\alpha - 5 + 0 = 57$	2			

IRELAND.

Cork	$\alpha - 2 + 1 = 23$	0.8	Louth	$\alpha - 0 + 0 = 6$	1.9
Kerry	$\alpha - 0 + 3 = 12$	0.6	Longford.....	$\alpha - 0 + 0 = 3$	0.7
Waterford	$\alpha - 2 + 1 = 12$	1.7	Galway.....	$\alpha - 2 + 0 = 6$	0.3
Tipperary	$\alpha - 1 + 1 = 14$	0.8	Roscommon ...	$\alpha - 0 + 0 = 2$	0.2
Limerick.....	$\alpha - 0 + 0 = 8$	0.8	Mayo.....	$\alpha - 0 + 0 = 9$	0.4
Clare	$\alpha - 3 + 0 = 9$	0.7	Sligo	$\alpha - 0 + 0 = 3$	0.4
Wexford	$\alpha - 1 + 0 = 9$	1.0	Leitrim.....	$\alpha - 1 + 0 = 3$	0.5
Kilkenny.....	$\alpha - 1 + 0 = 8$	1.0	Cavan	$\alpha - 2 + 0 = 2$	0.3
Wicklow	$\alpha - 5 + 0 = 14$	1.8	Fermanagh ..	$\alpha - 2 + 0 = 2$	0.3
Carlow	$\alpha - 1 + 0 = 3$	0.9	Monaghan	$\alpha - 0 + 0 = 2$	0.4
Queen's County	$\alpha - 0 + 0 = 6$	0.9	Armagh	$\alpha - 1 + 0 = 6$	1.2
King's County	$\alpha - 0 + 2 = 9$	1.2	Down	$\alpha - 1 + 4 = 12$	1.2
Kildare.....	$\alpha - 1 + 0 = 5$	0.8	Antrim.....	$\alpha - 0 + 0 = 17$	1.4
Dublin	$\alpha - 5 + 1 = 30$	8.5	Londonderry...	$\alpha - 0 + 0 = 5$	0.6
Meath	$\alpha - 1 + 0 = 8$	0.9	Tyrone	$\alpha - 0 + 0 = 5$	0.4
Westmeath ...	$\alpha - 0 + 0 = 9$	1.3	Donegal	$\alpha - 1 + 1 = 7$	0.4

OBITUARY.

By a series of coincidences the number of Observers whose names have to be included in the list of deaths for the twelve months ending June 30th, 1917, is 92, the same as last year, and we have been able to ascertain the ages of 67 of these, also the same number as last year. The average age was 72, the same as last year, and 19 had attained the age of 80 or over, again the same as last year, while 3 of these, as against 4 last year, were 90 years old or more. The final coincidence is that only 3, as last year, were less than 40. So far as we have been able to ascertain only 4 Observers were killed in action during the year, the small number being accounted for by the fact that very few of the rainfall Observers reporting to us are under military age, and a comparatively large proportion of those few are unfit for military service. We omit this year the list of octogenarians amongst the Observers who died during the year, but we add the age where it has been ascertained to the names in the general list, in which those who have fallen in the war are indicated by a special mark. The following list includes the names of those Observers whose records extended over 30 years or more. It is much shorter than last year's list, but it is remarkable in containing no less than five, with a record of half a century or upwards, and one, Mr. J. W. Robson, of Dalton, Huddersfield, whose record extends to 60 years, although it did not appear in

Records of thirty years and upwards.

Mr. J. W. Robson 60 years	Mr. E. Mawley (75) 44 years
Mr. W. R. Nash (82) 57 "	Mr. Baldwin Latham (81) .. 41 "
Rev. Preb. Dimond-Church-	Mr. W. Marriott (68) 39 "
ward (80) 52 "	Rev. S. G. Gillum (81) 36 "
Mr. G. Pile 51 "	Rev. J. C. Ross (74) 36 "
Rev. C. B. Mount (90) .. 50 "	Dr. H. M. Page 35 "
Mr. H. E. Hippisley (78) .. 48 "	Rev. O. Pickard-Cambridge
Mr. J. Joss 47 "	(88) 32 "
Mr. R. Gordon 45 "	Mr. W. B. Butler (60) 31 "

British Rainfall until 1865. The necessity for reducing the size of this volume compels us with much regret to restrict the biographical notices, and we are obliged to confine ourselves to the following brief epitome of the more notable services rendered by our old friends and colleagues.

A full notice, accompanied by a portrait, of SIR ALEXANDER BINNIE, a Trustee of the British Rainfall Organization, appears as the first article in this volume, and we refer to *Symons's Meteorological Magazine* for particulars regarding three past Presidents of the Royal Meteorological Society, all of them old Observers and life-long friends of the Organization. They are :—MR. W. ELLIS, F.R.S. (*Met. Mag.*, January, 1917), MR. BALDWIN LATHAM (*Met. Mag.*, June, 1917), and MR. EDWARD MAWLEY (*Met. Mag.*, October, 1916), and to these we must add MR. WILLIAM MARRIOTT (*Met. Mag.*, January, 1917), so well known as the Assistant Secretary of the Royal Meteorological Society, whose services in training Observers were unsurpassed.

CAPTAIN REX W. BIRD, who was killed in action at the age of 23, ceased observing when he joined the Army in October, 1914, as a private in the Bristol Battalion. He received a commission in the Wilts Regiment in January, 1915, and after seeing much service at the Front, during which he was wounded, was promoted in December, 1916. Though trained as an architect he developed a genius for leading men, and nobly upheld the finest traditions of the Army.

MR. W. B. BUTLER, of Old Southgate, was one of the most enthusiastic meteorological Observers who ever contributed to our pages. He not only kept continuous records at his residence for 31 years, but he equipped himself with a series of traveller's instruments, including a 3-inch Snowdon-Howard rain gauge and a miniature 1-inch copper Snowdon rain gauge, with a measuring glass to match. These and other interesting instruments, together with a legacy of £100, were left by Mr. Butler to the British Rainfall Organization, and the instruments will be preserved at 62, Camden Square, where they may perhaps form the nucleus of a rainfall museum.

LIEUTENANT H. S. HAWORTH, Yorkshire Light Infantry, was killed in action ten days after going to the front. From his boyhood he had been a keen Observer, and his records of rainfall and evaporation at Wakefield appeared in *British Rainfall* for many years.

MR. COLIN LIVINGSTONE, J.P., was a fine example of the old class of cultured and broad-minded parish schoolmasters in Scotland, and when he retired in 1894, he continued to devote himself to the scientific studies which he had pursued from his student days. He resided at Fort William for fifty years, and his meteorological record was established long before the idea of an Observatory on Ben Nevis took shape. Mr. Livingstone

assisted in the preliminary work of establishing the Observatory in 1883, and his exact local knowledge enabled him to plan the bridle path to the summit, which was traversed by many a meteorological pilgrim during the next twenty years.

MR. W. R. NASH, J.P., of The Mount, Carke-in-Cartmel, was an Observer of rainfall for 57 years, although, as in the case of the late Mr. J. W. Robson, his record did not happen to appear in the first volume of *British Rainfall*. Mr. Nash, like so many other members of the Society of Friends, had a remarkable aptitude for weather lore, and he made a life-long study of the southern margin of the Lake District. He was one of the founders of the Furness and South Cumberland Building Society, in 1865, and was, we believe, the Secretary of the Society from that time until his death. This gave him an extraordinarily detailed knowledge of his district, and he was ever foremost in every work of public utility.

THE REV. O. PICKARD-CAMBRIDGE, F.R.S., of Bloxworth, Wareham, was the leading authority on spiders, on which group he published several monographs of high value. He was also a devoted student of entomology, and he was a rainfall Observer for 32 years.

THE REV. J. C. ROSS, of Wadworth Hall, Doncaster, kept a continuous record of rainfall for 36 years, and probably derived his interest in this study from his father, the famous Arctic and Antarctic explorer, Sir James Clark Ross; the latter, it may be noted, when describing a heavy fall of rain at Sydney, N.S.W., mentioned that on August 1st, 1846, above 4 inches of rain fell between 3.30 p.m. and 6.30 p.m. in London, a record of which we have found no other trace.

MR. GEORGE SEARLE, of Edith Road, West Kensington, was the most scrupulous rainfall Observer we ever met, and devoted an extraordinary amount of care and attention to his instruments and their records. He took a great interest in the affairs of the Organization, and frequently presented books to the library, and on his death he bequeathed a legacy of £200 to the Endowment Fund.

MR. H. W. WALBANK, of Usworth Central Council School, Co. Durham, employed the rain gauge as a means of education with remarkable originality and success. Having visited his school and seen the interest which the pupils took in the records we persuaded Mr. Walbank to write a short description of his methods, which was published in *Simons's Meteorological Magazine* for 1909, Vol. 44, pp. 127-128.

MR. W. W. WILLMOTT, of Cleveland Parade, Darlington, came of a Quaker stock, and acquired from his father, Dr. A. T. Willmott, of Ross, Herefordshire, a love of nature, which he developed, especially in the direction of botany and conchology. For some time he kept a private school in Darlington, but for the greater part of his life he was in business continuing at work to the last to fill the place of those called to the war. His fatal illness was induced by patriotic over-exertion in his garden, and the day before his death he was eagerly discussing that morning's rainfall.

Observers deceased to June 30th, 1917.

Small Capitals designate Observers with records of 30 years and upwards.

Bailey, Richard Crawshay	.. ..	Bodenham, Hereford.
Bates, Gilbert Thompson (70)	.. ..	Mells Park, Frome.
Battersby, Maj.-Gen. John Prevost (90)		Lyncroft, Weybridge.
Bertram, William	.. ..	Cragside, Rothbury.
*Binnie, Sir Alexander Richardson (78)		London.
*†Bird, Lieut. Rex W. (23)	.. ..	Midsomer Norton.
Bowman, Sir William Paget, Bt. (71)		Joldwynds, Holmbury St. Mary.
Bullock, P. Clouston (54)	.. ..	Pendean, Midhurst.
Burne, Col. Sambrooke T. H., V.D. (63)		Loynton Hall, Staffs.
*BUTLER, WILLIAM BOWTON (60)	.. ..	Old Southgate.
Cann-Lippincott, Robert Cann (76)	.. ..	Over Court, Bristol.
Carson, David Simpson	.. ..	Kilmalcolm, Renfrewshire.
Cherrill, Nelson King (71)	.. ..	Haslemere.
Cobb, Miss Charlotte Elizabeth (84)	.. ..	Hamilton Terrace, N.W.
Cook, Miss Fanny	.. ..	The Hall, Nutley.
Cooper, Rev. Robert Jermyn (86)	.. ..	Robin Hood's Bay, Yorks.
Cresswell, A.	.. ..	Edgbaston, Birmingham.
Cruddas, Rev. William Sandwith	.. ..	Withiel Rectory, Cornwall.
David, Martin Sinclair	.. ..	Manor House, Tonbridge.
Davis, Henry (64)	.. ..	Castle Hill House, Duffield.
DIMOND-CHURCHWARD, REV. M.D. (80)		Northam Vicarage, Devon.
Duncombe, Col. Walter H. O. (71)	.. ..	Waresley Park, Sandy.
Eden, Hon. Robert Henley Shaw (76)		Llandrillo, Bala.
Edlmann, Charles Clement (79)	.. ..	Bognor.
*Ellis, William, F.R.S. (89)	.. ..	Blackheath.
Eves, W. J.	.. ..	Aberdovey, Merioneth.
Fryar, J. W.	.. ..	Eastwood, Notts.
Gee, John (83)	.. ..	Salford House, Welford.
GILLUM, REV. SIDNEY GEORGE (81)	.. ..	Vernham Dean, Exmouth.
Goodall-Copestake, Walter, M.R.C.S. (80)		Duffield Road, Derby.
GORDON, R., C.E.	.. ..	Lower Pitkerrie, Ross-shire.
Gundry, Sir William (72)	.. ..	North Lodge, Potters Bar.
Guy, J. W.	.. ..	Prestbury, Cheltenham
Harrington, J. P.	.. ..	Broadfield, Port Glasgow.
*†Haworth, 2nd-Lt. Harold Stanley (36)		Stanley Grange, Wakefield.
Henderson, J.	.. ..	Loan, Inverness-shire.
HIPPISLEY, HENRY EDWARD (78)	.. ..	Ston Easton, Somerset.

* See Biographical Note, *ante*.

† Killed in action.

Observers Deceased to June 30th, 1917—(continued).

Izat, Capt. George, R.N. (69)	..	Halberton, Tiverton.
Jeffrey, J. .. ..	..	The Gardens, St. Mary's Isle.
Joad, Mrs. Laura Catherine ..	..	Patching, Sussex.
Jones, Oliver Henry (70) ..	..	Fonmon Castle, Glam.
Joss, J. .. ..	..	Cruchie, Huntly.
Kemm, Dr. Frederick St. John (64)	..	Worle, Somerset.
*LATHAM, BALDWIN, C.E. (81) ..	..	Park Hill House, Croydon.
*Livingstone, Colin (89) ..	..	Ardtraigh, Fort William.
MacDougall, Allan .. ..	..	Sotterley Hall Gardens, Beccles.
*MARRIOTT, WILLIAM (68) ..	..	Dulwich.
Marten, Edward Dimmack, C.E.	..	Cheltenham.
Martin, N. H., F.R.S.E. (69) ..	..	Newcastle-on-Tyne.
*MAWLEY, EDWARD, V.M.H. (75)	..	Rosebank, Berkhamsted.
Merivale, John Herman (67) ..	..	Acklington, Northumberland.
Miller, Lt.-Col. J. F., I.S.C. ..	..	Pershore, Worcs.
Miller, Dr. N. H. J. .. ..	..	Rothamsted, Herts.
Moore, J. W. .. ..	..	Sidlesham, Sussex.
MOUNT, REV. CHARLES BRIDGES (90)	..	Bath.
*NASH, WILLIAM RICHARDSON (82)	..	The Mount, Carke-in-Cartmel.
Neame, Sidney (50) .. ..	..	Harefield, Selling.
Nelson, Thomas Arthur (40) ..	..	Achnacloich, Argyll.
†Nicholson, Lawrence J. .. ..	..	Gateshead, Newcastle-on-Tyne.
PAGE, DR. HERBERT MARKANT ..	..	Langport, Somerset.
Paget, Miss A. .. ..	..	Camlot, Barnet.
Paget, Commr. Claude Paget, R.N. (65)	..	Fairhaven, Weybridge.
Pell, Maj. Albert Julian (52) ..	..	Wilburton Manor, Ely.
Pennethorne, Deane Parker (82)	..	Lindfield, Sussex.
Philpott, Rev. Thomas Henry (77)	..	Botley, Hants.
*PICKARD-CAMBRIDGE, REV. O., F.R.S. (88)	..	Bloxworth, Dorset.
PILE, GEORGE .. ..	..	Hartley, Cranbrook.
Pope, Mrs. Emily Frances (79)	..	Edwins Hall, Woodham Ferrers.
Roberts, Dr. F. E. .. ..	..	Hayling Island.
Robins, Mrs. .. ..	..	West Hill, Leamington.
ROBSON, J. W. .. ..	..	Dalton, Huddersfield.
Rogers, Henry (87) .. ..	..	Preston, Brighton.
*ROSS, REV. JAMES COULMAN (74)	..	Wadhurst Hall, Doncaster.
Rudd, Charles Dunell (72) ..	..	Ardnamurchan, Argyll.
Scott, D. M. .. ..	..	Saltcoats, Ayr.
Scott, Mason Thompson .. ..	..	Brunstock House, Carlisle.
*Searle, George (56) .. ..	..	Edith Road, West Kensington.
Simpson, David Goudie (78)	..	Bromley, Kent.
†Smyth, Capt. W. H. .. ..	..	Milltown, Banbridge.
Spencer, Rev. Abraham (72) ..	..	Accrington.
Sykes, Frank (60) .. ..	..	Borrobol, Kinbrace.
Tapp, Arthur March (90) ..	..	Shortlands, Kent.
Taylor, Frederick James (83)	..	Newport Pagnell
Teignmouth, Lord (73) ..	..	Ballyduff, Co. Kilkenny.
Thompson, George Stafford (85)	..	New Building, Thirsk.
*Walbank, H. W. .. ..	..	Usworth, Co. Durham.
Weaver, J. .. ..	..	Christleton Hall Gardens, Chester.
White, John Newsom (73) ..	..	Rocklands, Waterford.
Wiggin, Sir Henry Arthur, Bart. (65)	..	Walton Hall, Eccleshall.
*Willmott, Walter Wade (81) ..	..	Cleveland Parade, Darlington.
Willson, Rev. Vere Francis (63)	..	Rauceby Hall, Lincs.
Woodhams, F. .. ..	..	Meopham, Kent.

BRITISH RAINFALL 1916.

PART II.

RAINFALL AND METEOROLOGY

OF

1916.

EVAPORATION AND PERCOLATION IN 1916.

THE death of Mr. E. Mawley, of Berkhamsted, and of Mr. Baldwin Latham, of Croydon, has taken away two of the six Observers of Percolation. One of Mr. Latham's two records, and also his evaporation results, for 1916, were however complete and appear, we fear, for the last time. There is no change in the main table of Evaporation records except that the observations at Worstead came to an end during the summer.

The year was one of moderate evaporation, principally owing to the cool moist weather of the summer months.

Evaporation at Camden Square, 1885-1916.

	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
1885.	·20	·38	·86	1·71	1·98	2·77	3·29	2·25	1·13	·77	·17	·11	15·62
1886.	·23	·13	·53	1·59	1·78	2·93	3·12	1·86	1·46	·63	·27	·12	14·65
1887.	c·07	·29	·76	1·72	1·79	3·68	3·76	2·54	1·25	·78	·21	·07	16·78
1888.	·07	·37	·48	1·16	2·71	2·24	1·44	1·90	1·17	·60	·43	·03	12·60
1889.	·03	·18	·62	1·07	1·76	2·97	2·34	1·96	1·52	·42	·29	c·13	13·03
1890.	·08	·19	·50	1·44	2·63	2·14	2·33	2·02	1·27	·79	·31	·04	13·74
1891.	·03	·16	·73	1·35	1·66	2·83	2·34	1·67	1·00	·62	·20	·22	12·81
1892.	·05	·09	·60	1·88	2·65	3·05	2·84	2·20	1·01	·36	·02	·20	14·95
1893.	c·03	·01	·92	2·33	3·06	3·62	3·12	2·85	1·48	·70	·11	·01	18·18
1894.	c·04	·28	·83	1·17	2·10	2·48	2·49	1·91	·97	·37	·20	·11	12·87
1895.	·14	·64	·36	1·26	3·06	3·31	3·07	2·12	1·27	·54	·19	·07	16·03
1896.	·16	·24	·64	1·57	3·06	3·21	3·63	1·96	·68	·47	·18	·00	15·80
1897.	·23	·21	·76	1·23	2·99	2·48	3·60	2·49	·99	·63	·26	c·14	15·73
1898.	·19	·37	·51	1·28	1·56	2·10	2·96	2·53	1·73	·45	·11	·16	13·95
1899.	·04	·28	·52	1·24	2·34	3·67	4·03	3·78	2·01	·45	·41	·11	18·88
1900.	·03	·16	·80	1·46	2·35	2·85	4·25	2·61	1·61	·89	·24	·15	17·40
1901.	·13	·24	·60	1·98	3·25	3·85	3·37	3·19	1·42	·64	·31	c·05	18·93
1902.	·16	·15	·71	1·75	·1·78	2·33	3·30	1·71	1·47	·69	·28	·27	14·60
1903.	·26	·39	·97	1·57	2·24	2·79	3·35	2·53	1·51	·86	·29	·12	16·88
1904.	c·09	·26	·54	1·68	1·81	3·32	4·06	2·86	1·20	·50	·26	·02	16·42
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
1915.	·11	·13	·66	1·65	2·90	3·15	2·50	1·76	1·61	·56	·25	c·03	15·25
Average 1885-1915	·11	·25	·67	1·55	2·39	2·91	3·05	2·34	1·38	·62	·24	·09	15·60
1916.	·19	·34	·30	1·61	2·32	2·20	2·23	2·34	1·20	·76	·34	c·04	13·79
Diff.	+·08	+·09	-·37	+·06	-·07	-·71	-·82	·00	-·18	+·14	+·10	-·13	-1·81

NOTE.—c indicates condensation.

Table of Rainfall, Percolation and Calculated Evaporation at Park Hill House, Stanhope Road, Croydon. The late Mr. Baldwin Latham, 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.

1916	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.	Calculated Evaporation.
	in.	in.	in.
January	1·16	1·44	c·28
February	4·97	3·86	1·11
March	4·36	4·58	c·22
April	1·42	·76	·66
May	2·34	·70	1·64
June	2·97	·00	2·97
July	·86	·00	·86
August	3·09	·00	3·09
September	1·35	·00	1·35
October	3·70	·87	2·83
November	5·76	5·29	·47
December	2·94	2·68	·26
Total	34·92	20·18	14·74

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

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

1916.	TIMSBURY.			TWYFORD.		
	Rainfall Level of Gauge, 96·39 ft. above O.D.	Percolation Gauge. <i>Chalk.</i> Level of Gauge, 89·75 ft. above O.D.		Rainfall. Level of Gauge 138·72 ft. above O.D.	Percolation Gauge. <i>Chalk.</i> Level of Gauge 137·49 ft. above O.D.	
		Percolation.	Calculated Evaporation.		Percolation.	Calculated Evaporation.
	in.	in.	in.	in.	in.	in.
January	·94	·78	·16	1·17	1·95	c·78
February	4·96	2·34	2·62	5·36	4·45	·91
March	3·27	3·96	c·69	2·97	2·94	·03
April	·39	·25	·14	·42	·16	·26
May	1·36	·01	1·35	1·62	·00	1·62
June	1·47	·01	1·46	1·69	·00	1·69
July	1·51	·01	1·50	·95	·00	·95
August	3·64	·01	3·63	3·40	·00	3·40
September	2·33	·02	2·31	2·35	·00	2·35
October	6·70	2·60	4·10	6·70	3·78	2·92
November	4·88	5·09	c·21	5·03	5·02	·01
December	3·87	2·18	1·69	4·12	3·37	·75
Total	35·32	17·26	18·06	35·78	21·67	14·11

NOTE.—c indicates condensation.

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

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

1916	Rainfall.	Percolation.	Calculated Evaporation.
	in.	in.	in.
January	1·95	2·83	C ·88
February	5·98	3·51	2·47
March	5·21	6·32	C 1·11
April	·96	·49	·47
May	1·88	·44	1·44
June	2·38	·00	2·38
July	1·40	·00	1·40
August	3·81	·00	3·81
September	2·74	·84	1·90
October	6·66	5·40	1·26
November	6·23	6·52	C ·29
December	4·11	3·65	·46
Total	43·31	30·00	·13·31

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.

1916.	Rainfall.	Percolation.	Calculated Evaporation.	Evaporation from Free Water Surface.
	in.	in.	in.	in.
January	1·51	·67	·84	·67
February	3·45	1·97	1·48	·71
March	3·31	2·69	·62	·61
April	1·53	·23	1·30	1·81
May	2·91	·41	2·50	2·25
June	1·77	·14	1·63	2·69
July	1·75	·02	1·73	2·59
August	1·76	·13	1·63	2·43
September	1·94	·01	1·93	1·93
October	5·44	1·58	3·86	1·44
November	2·42	1·04	1·38	·43
December	2·09	·17	1·92	·25
Total	29·88	9·06	20·82	17·81

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

Altitude 420 feet.

1916.	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.	in.
January	2·07	1·83	·24	2·00	·07	1·90	·17
February	3·28	3·39	C·11	3·34	C·06	3·27	·01
March	3·84	5·55	C1·71	6·05	C2·21	5·61	C1·77
April	1·34	·21	1·13	·36	·98	·31	1·03
May	1·82	·63	1·19	·74	1·08	·71	1·11
June	2·56	·06	2·50	·15	2·41	·13	2·43
July	1·61	·28	1·33	·40	1·21	·35	1·26
August	3·32	1·11	2·21	1·21	2·11	1·16	2·16
September	1·50	·45	1·05	·51	·99	·45	1·05
October	3·40	2·10	1·30	2·10	1·30	2·02	1·38
November	4·19	4·26	C·07	4·35	C·16	4·45	C·26
December	3·06	3·09	C·03	3·16	C·10	3·02	·04
Total	31·99	22·96	9·03	24·37	7·62	23·38	8·61

NOTE.—C indicates condensation.

EVAPORATION IN 1916.

County Station	London, Camden Square.	Surrey, Croydon, Park Hill Ho.	Surrey, New Malden.	Sussex, Isfield Place	Hampshire, Otterbourne
	Latitude Longitude Altitude Observer Size of tank Capacity (galls.) Height of lip above ground	51° 32' 20" N. 0 8 10 W. 111 ft. H. R. Mill, D.Sc. 6 ft. x 6 ft. 450 3 inches	51° 24' N. 0 16 W. 40 ft. W. J. Carter. 8 in. diameter ... 3 in. above water	50° 56' 50" N. 0 3 40 E. 41 ft. Major H. King. 4 ft. x 4 ft. 250 3 inches	51° 0' 28" N. 1 19 55 W. 112 ft. E. C. R dda, C.E. 6 ft. x 6 ft. 450 3 inches
January	in. .19	in. .50	in. .24	in. .30	in. .55
February	.34	.48	.45	.47	.21
March	.30	.52	.39	.78	.71
April	1.61	1.93	1.59	2.00	2.53
May	2.32	3.00	1.64	1.58	2.84
June	2.20	2.76	1.76	2.50	2.88
July	2.23	2.56	2.47	2.83	3.77
August	2.34	2.77	1.84	3.14	3.26
September	1.20	1.41	1.27	1.96	1.68
October	.76	1.14	.79	1.03	1.20
November	.34	.74	.24	.70	.40
December	C .04	.14	.08	C .01	.03
Year, 1916	13.79	17.95	12.76	17.28	20.06
Average, 1908-1916	15.29	19.48	...	19.23	19.30
Difference	-1.50	-1.53	...	-1.95	+.76
Year, 1916	34.01	34.92	32.60	34.27	36.89
Average, 1908-1916	26.98	30.32	27.21	32.61	32.52
Difference	+7.03	+4.60	+5.39	+1.66	+4.37

NOTE.—C indicates condensation.

EVAPORATION IN 1916—(continued).

County	<i>Norfolk.</i> Worstead	<i>Devon,</i> Torquay W. W., Kennick	<i>Lincoln,</i> Revesby Water Works	<i>Lancashire,</i> Southport, Hesketh Park	<i>Yorkshire,</i> Ardley Reservoir No. 1,
Station	52° 47' 10" N. 1 25 30 E. 55	50° 38' 30" N. 3 41 20 W. 835 ft.	53° 9' N. 0 3 W. 130 ft.	53° 39' 24" N. 2 59 3 W. 37 ft.	53° 43' 10" N. 1 33 20 W. 395 ft.
Latitude.....	R. J. Cross.	S. C. Chapman, c. f.	J. Shaw.	J. Baxendell.	C. C. Smith, C. E.
Longitude	2 ft. 6 in. × 2 ft. 6 in.	6 ft. × 6 ft.	6 ft. × 6 ft.	3 ft. × 3 ft.	6 ft. × 6 ft.
Altitude .....	...	450	450	112	450
Observer	4 inches	3 inches	2 inches	3 inches	3 inches
Size of Tank					
Capacity (galls.)					
Height of lip } above ground }					
January	in. .57	in. .15	in. .06	in. .10	in. .55
February .....	.40	.15	.29	.21	.19
March .....	.65	.38	.33	.47	.27
April	1.88	2.21	1.47	1.69	1.99
May	2.16	2.55	1.99	2.23	2.09
June	2.20	3.05	1.85	3.19	2.50
July	2.30	3.45	1.95	2.66	2.74
August .....	...	2.84	2.40	2.75	2.87
September .....	...	1.97	1.04	1.38	1.47
October .....	...	.71	.80	.49	.94
November .....	...	.39	.32	.17	.39
December .....	...	.15	.02	C .02	C .06
Year, 1916.....	...	18.00	12.52	15.32	15.94
Average, } 1908-1916 }	...	18.70	14.70	...	17.21
Difference .....	...	— .70	— 2.18	...	— 1.27
Year, 1916.....	29.84	47.00	29.67	31.42	28.11
Average, } 1908-1916 }	28.46	44.87	26.04	32.80	25.79
Difference	+1.38	+2.13	+3.63	— 1.38	+2.32

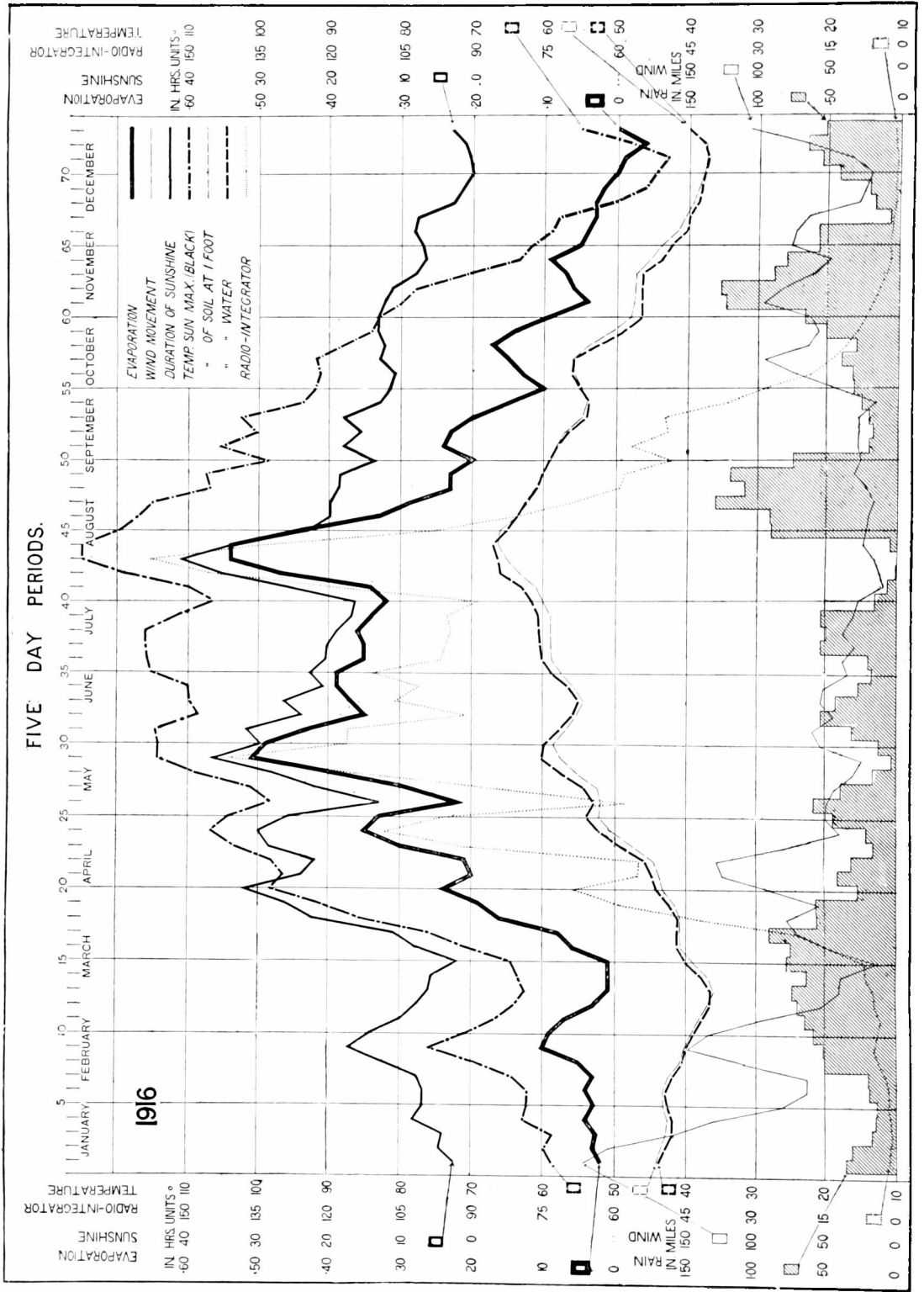
NOTE.—C indicates condensation.

EVAPORATION IN 1916—(continued).

County	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 Thirteen Records. in. .32 .31 .42 1.83 2.23 2.53 2.60 2.66 1.51 .89 .37 .03
Latitude.....					
Longitude					
Altitude.....					
Observer.....					
Size of tank					
Capacity (galls.)					
Height of lip } above ground }					
January	in. .18	in. .49	in. .67	in. .20	in. .32
February .....	.09	.14	.71	.24	.31
March .....	.26	.04	.61	.44	.42
April	1.91	1.76	1.81	1.30	1.83
May	2.09	2.01	2.25	2.36	2.23
June	2.53	2.29	2.69	2.67	2.53
July	2.76	2.11	2.59	1.76	2.60
August	2.67	2.50	2.43	2.80	2.66
September	1.42	1.44	1.93	1.42	1.51
October .....	.81	.86	1.44	.66	.89
November .....	.25	.01	.43	.41	.37
December	C .15	C .09	.25	.10	.03
Year, 1916...	14.82	13.56	17.81	14.36	15.70
Average, 1908-1916 }	...	...	18.76	17.33	...
Difference ...	...	...	— .95	— 2.97	...
Year, Average, 1908-1916 }	29.08	54.79	29.88	62.94	37.35
Difference ...	...	...	29.06	48.91	...
RAIN }	...	...	+ .82	+ 14.03	...

NOTE.—C indicates condensation.

EVAPORATION FROM A WATER SURFACE AND OTHER METEOROLOGICAL PHENOMENA.



METEOROLOGICAL OBSERVATIONS AT CAMDEN SQUARE, LONDON, IN 1916.

SHADE TEMPERATURE.

1916.	MEAN DAILY.				MAXIMUM DAILY.					MINIMUM DAILY.				
	1916.	Diff. from Average.	Mean.	Diff. from Average.	Highest Reading.	Date.	Lowest Reading.	Date.	Highest Reading.	Date.	Lowest Reading.	Date.		
January	45.7	+7.2	50.7	+7.4	57.2	1	44.0	31	50.2	22	30.2	23		
February	39.7	0.0	45.7	+0.2	53.7	13	35.3	26	45.3	4	26.6	25		
March	39.8	-2.3	46.1	-3.9	56.5	19	37.3	7	43.9	20	27.3	9		
April	49.2	+1.1	59.8	+1.9	77.3	27	49.6	7	51.9	28	32.8	1		
May	57.2	+3.2	67.6	+3.0	84.8	21	49.7	8	53.0	22	36.6	9		
June	55.7	-4.4	65.0	-5.8	73.6	22	53.6	12	58.3	23	40.3	17		
July	61.9	-1.6	72.1	-2.2	84.4	31	61.7	23	59.8	31	47.0	15		
August	63.9	-1.6	74.4	-1.7	85.3	1	59.4	30	62.4	14	44.3	31		
September	56.7	-1.0	66.1	+1.3	72.3	7	57.0	20	58.1	1	37.8	15		
October	53.1	+3.0	60.2	+2.5	69.3	5	49.8	1	59.8	6	29.3	22		
November	44.4	+0.9	50.1	+1.0	58.4	11	38.6	17	49.3	5	26.2	28		
December	37.4	-2.3	41.9	-2.4	55.1	29	33.8	14	46.8	30	25.5	17		
YEAR	50.4	+0.4	58.3	+0.2	85.3	Aug. 1	33.8	Dec. 14	62.4	Aug. 14	25.5	Dec. 17		

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 1916.

1916.	RAINFALL.						Evapor- ation.	RADIATION TEMPERATURE.		Radio- Integra- tor.	SUNSHINE.		EARTH TEMPERATURE.		
	Total duration. one day.	Max. dura- tion in one day.	Total amount. in.	Diff. from Average. in.	Max. amount in one day. in.	No. of Rain Days.		Mean max. in Sun. Black bulb.	Mean min. on Grass.		Total duration. hrs.	Max. in one day. hrs.	Mean at 1 foot.	Mean at 4 feet.	Mean at 10 feet.
January	30.0	10.3	1.30	— .70	.49	13	.19	60.6	36.3	Units. 7.7	33.4	4.6	43.5	45.1	48.8
February ...	90.9	13.1	3.46	+1.86	.50	21	.34	68.5	31.4	20.1	65.0	7.3	39.6	44.0	48.0
March	133.6	23.0	4.67	+2.92	1.07	22	.30	69.9	31.8	81.9	51.0	7.9	39.0	41.7	46.9
April	29.6	7.4	1.31	— .31	.27	15	1.61	100.8	35.4	480.3	181.3	12.0	45.3	43.8	46.1
May	34.7	7.9	1.88	+ .03	.32	13	2.32	106.8	44.3	633.6	155.8	11.6	55.0	49.3	46.5
June	30.3	6.0	2.19	— .13	.34	16	2.20	112.0	46.2	599.9	138.6	12.2	56.6	53.0	48.3
July	18.3	3.7	1.68	— .68	.71	13	2.23	113.9	51.6	688.4	147.4	10.7	60.5	55.5	50.0
August	41.0	13.3	5.57	+3.22	1.35	16	2.34	115.9	53.2	547.0	146.2	10.5	63.7	59.1	51.7
September ..	28.0	9.7	1.48	— .71	.28	13	1.20	101.2	46.9	298.9	95.0	9.0	56.6	57.3	53.0
October	55.2	11.8	3.25	+ .62	.64	23	.76	86.5	44.8	69.2	80.1	7.8	52.4	54.2	53.1
November....	82.2	23.3	4.67	+2.33	.87	12	.34	66.2	35.9	12.7	49.4	6.0	44.7	50.0	52.5
December ...	54.0	7.0	2.55	+ .42	.43	15	C.04	64.9	30.2	5.3	7.5	3.6	38.1	45.3	50.7
YEAR	627.8	23.3	34.01	+8.87	1.35	192	13.79	87.4	40.7	3494.9	1150.7	12.2	49.6	49.8	49.6

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.

THE arrangement of the sections of *British Rainfall* falling under this heading has been fully described in recent volumes, and this year we need not do more than remind our readers that the frequency and incidence of rainfall during the year, as shown by the number of Rain Days and the occurrence of definite spells of dry and wet weather, are dealt with by means of a detailed examination of 100 carefully selected daily rainfall records, representing all parts of the British Isles. The sections on Duration of Rainfall, and Heavy Falls of Rain in Short Periods, during 1916, on the other hand, include all the information on those subjects which has come into our hands.

RAIN DAYS IN 1916.

A RAIN DAY is a period of twenty-four hours ending at 9 a.m. in which .01 in. of rain or more is recorded, when readings are made to the nearest hundredth of an inch. Any fall greater than half a hundredth is treated as one hundredth; any fall less than half a hundredth is ignored.

The number of rain days in 1916 as shown in the Table was above the average in all parts of the British Isles, least so probably in the south-west of England, and the west of Scotland, and most so in the east of Great Britain. More than 250 rain days occurred in the western counties of Ireland, in the Outer Hebrides, and the extreme north-west of Scotland. An isolated area in Argyllshire and a small patch in the English Lake District also had more than 250 rain days.

The number of rain days exceeded 225 in Ireland, except in the south and east, from Cape Clear to Donaghadee; and in Scotland, save for two large areas, one running inland from the Moray Firth, the other extending along the whole east coast south of Aberdeen and inland as far as Blair Atholl and Bathgate. More than 225 rain days also occurred in the English Lake District and along the centre of the Pennine Chain as far south as

Buxton, as well as in the centre of Wales. The rest of England and Wales had fewer than 225 rain days and a large area in the south-east of England had less than 200 rain days, while part of East Anglia had fewer than 175. Parts of the coast of the Irish Sea, especially in the south-east of Ireland and around the Mersey, and a small area on the Moray Firth also had less than 200 rain days.

In order to save space we omit the usual maps showing the distribution of rain days in the year and in an average year. The statistical tables are, however, given in full so that continuity is preserved with previous years. Table I. gives the number of rain days in each month at each of the selected stations, and the mean values from this table enable us to compare the frequency of rain days during 1916 with the average general values for the countries and with each year back to 1903. From Table II. it will be seen that over the country as a whole there were 220 rain days, giving an excess of 16 rain days, or 8 per cent., over the average. The excess was greatest, 18 days, or 10 per cent., in England and Wales, being 16, or 7 per cent., both in Scotland and Ireland. Only two years in the fourteen under review had more rain days, *viz.*, 1903, with 229 days, or 112 per cent. of the average, and 1912, with 222 or 109 per cent. In England and Wales, 1910, and in Ireland, 1907, had slightly more rain days than 1916, but 1903 was the only year with larger general values for all the great divisions of the United Kingdom.

TABLE II.—*Rain Days, 1903-1916, 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
1916	205	+18	110	232	+16	107	239	+16	107	220	+16	108

TABLE I.—*Number of Rain Days in 1916.*

STATION	COUNTY.	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total.	Total Rain-fall. in.	Amount per Rain Day in.
ENGLAND & WALES.																
St. Pancras, Camden Square ...	London	13	22	22	14	13	16	13	16	12	23	12	15	191	33.38	.17
Tenterden, View Tower ...	Kent	17	23	23	14	12	15	10	13	10	22	17	21	197	33.68	.17
Brighton, Goldstone Bottom ...	Sussex	20	22	20	12	13	20	7	15	11	22	17	18	197	32.05	.16
Sandown, Free Library ...	Hampshire	19	23	22	9	14	14	6	12	12	23	21	22	197	35.17	.18
Petersfield, Ditcham Park ...	"	17	24	25	10	14	17	8	16	13	23	17	18	202	39.00	.19
Upton ...	Berkshire	17	22	20	12	16	15	9	14	14	24	16	15	194	29.99	.15
Newport Pagnell, The Croft ..	Buckinghamshire	14	23	21	11	18	20	14	14	12	21	14	14	196	30.67	.16
Cambridge, Botanic Gardens ...	Cambridgeshire	11	21	23	13	12	17	11	14	6	15	14	16	173	24.22	.14
Southend, Water Works ...	Essex	15	23	25	10	10	18	12	13	11	20	16	20	195	24.88	.13
Lexden, Hill House ...	"	12	20	18	12	8	17	11	13	10	20	14	16	171	28.84	.17
Beccles, Sotterley Hall ...	Suffolk	13	21	21	11	8	16	10	14	9	18	12	17	170	31.92	.19
Swaffham, The Paddocks ...	Norfolk	12	21	19	13	13	19	15	14	13	21	15	20	195	29.56	.15
Salisbury Plain, Shrewton ...	Wiltshire	19	26	21	11	18	15	9	13	12	24	22	18	208	37.14	.18
Dorchester, Wollaston House ...	Dorsetshire	15	25	20	12	14	10	6	14	15	22	21	16	190	42.07	.22
Ashburton, Druid House ...	South Devon	4	19	26	12	15	16	7	15	12	26	20	19	211	56.90	.27
Martinhoe Rectory ...	North Devon	1	17	24	12	17	12	6	17	11	26	19	15	193	41.11	.21
Bude, Shaldon Hill ...	Cornwall	16	28	22	15	21	15	8	14	10	26	20	18	213	34.31	.16
St. Austell, Trevarna ...	"	22	24	21	14	17	16	12	15	12	23	23	23	222	50.09	.23
Angersleigh, Leigh Court ...	Somerset	17	27	17	11	17	14	9	14	12	25	20	15	198	42.65	.22
Mickleton, Bank House ...	Gloucestershire	16	22	21	12	18	16	13	14	12	23	14	15	196	29.24	.15
Clifton, Harley Place ...	"	22	22	24	11	20	17	9	14	9	28	21	16	216	44.49	.21
Hereford, Holmer Hall ...	Herefordshire	16	22	25	11	18	14	10	14	12	22	19	16	199	25.68	.13
Shifnal, National School ...	Shropshire	16	21	21	15	17	14	15	15	15	26	17	15	207	29.58	.14
Mayfield House [Ashbourne] ...	Staffordshire	18	24	21	14	13	14	17	14	10	25	16	21	207	34.20	.17
Blaby, Whetstone Road ...	Leicestershire	4	18	22	13	17	17	13	15	11	23	17	15	203	27.75	.14
Market Deeping, Wilsthorpe ...	Lincolnshire	10	19	22	10	13	13	12	14	7	17	13	15	165	24.36	.15
Spilsby, Ashby Road ...	"	12	21	21	10	12	12	14	15	9	21	15	20	182	27.98	.15
Worksop, Hodsock Priory ...	Nottinghamshire	11	20	23	12	13	15	13	13	11	19	14	20	184	24.46	.13
Northwich, Winnington ...	Cheshire	17	23	19	12	17	15	12	13	16	21	15	20	200	26.93	.13
St. Michael's-on-Wyre Vicarage	North Lancashire	5	23	19	13	12	15	12	12	13	26	20	21	199	32.05	.16
Settle, Gas Works ...	Yorkshire, W.R.	26	26	21	19	15	17	18	15	11	28	24	23	243	52.19	.22
Meltham, Harewood Lodge ...	"	19	27	24	17	11	16	15	15	15	27	22	23	231	52.65	.23
Hull, Pearson Park ...	"	11	22	25	13	10	15	13	16	11	22	19	25	202	28.48	.14
Thirsk, Mount St. John ...	"	12	24	25	14	13	19	14	15	10	23	13	20	202	27.25	.14

TABLE I.—*Number of Rain Days in 1916—(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	14	23	16	15	19	15	14	10	22	14	24	204	29·22	·14
Sunderland, West Hendon House	Durham.....	2	14	25	15	16	22	20	17	11	25	15	22	222	27·34	·12
Glanton, Glanton Pyke Gardens	Northumberland ...	5	15	25	16	20	19	19	15	13	25	18	18	225	41·48	·18
Carlisle, Newby Grange	Cumberland	1	24	19	13	18	17	20	16	12	25	22	25	234	34·82	·15
Kirkby Stephen, Redman House	Westmorland	1	21	22	18	15	16	18	14	10	26	19	14	217	50·12	·23
Dungeon Ghyll	"	2	29	20	19	20	18	18	16	14	27	27	22	251	125·33	·50
Treherbert, Tyn-y-waun	Glamorgan	6	26	27	21	18	19	12	14	13	28	23	18	233	97·77	·42
Carmarthen, The Friary	Carmarthen	2	26	23	20	18	17	13	15	17	29	26	20	244	51·18	·21
Fishguard, Goodwick Station..	Pembroke	2	20	15	12	17	13	8	9	10	25	23	18	190	34·94	·18
Aberystwyth, Gogerddan	Cardigan	2	26	18	16	22	15	13	15	11	25	21	18	222	46·94	·21
Birmingham W.W., Tymynydd	Radnor	1	25	27	16	21	20	11	15	15	27	22	20	244	62·65	·26
Lake Vyrnwy, Bank Cynon Isl	Montgomery.....	5	19	21	15	17	14	10	13	10	25	23	13	201	60·48	·30
Denbigh, Garn	Denbigh	2	16	21	15	17	18	10	13	13	25	17	20	205	35·62	·17
Abersoch.....	Carnarvon.....	4	23	19	15	18	11	5	14	11	23	23	20	197	41·79	·21
Lligwy	Anglesey	20	21	16	14	18	13	10	12	10	24	20	23	201	33·10	·16
England & Wales	(Mean of 49 stations)...	18	23	21	13	15	16	12	14	12	24	18	19	205	39·54	·19
ISLE OF MAN.																
Douglas, Clype Res., Onchan...	Isle of Man	25	21	17	17	17	12	11	13	16	28	23	24	224	50·31	·22
SCOTLAND.																
Whithorn, Cutroach	Wigtown	4	23	9	18	22	10	10	11	11	25	20	20	193	41·64	·22
Jardington [Dumfries]	Kirkcudbright	5	27	18	18	20	14	18	14	11	26	20	22	230	43·84	·19
Marchmont House	Berwick	4	14	21	15	20	14	13	14	15	24	22	17	213	45·00	·21
Balerno, Cockburn Hill	Midlothian	5	23	20	13	20	16	18	15	10	25	21	20	222	56·62	·26
Girvan, Pinmore.....	Ayr	8	30	12	18	20	17	17	14	17	26	21	23	233	51·64	·22
New Cunnock, Ayr Sanatorium	"	13	28	19	18	22	16	17	15	16	24	20	21	236	63·28	·27
Stirling, Touch Reservoir No. 1	Stirling	1	23	17	17	18	17	17	13	9	24	26	24	224	61·90	·28
Rothsay, Crichton Road	Bute	29	24	15	21	20	19	19	18	22	26	24	29	266	57·72	·22
Lochgilphhead, Poltalloch.....	Argyll	6	28	9	21	21	13	16	12	14	28	25	23	236	62·89	·27
Campbeltown, Witchburn	"	10	29	10	18	22	12	13	15	18	28	23	27	232	47·29	·20
Islay, Eallabus	"	14	29	10	20	23	15	18	18	20	28	27	26	258	51·36	·20
Mull, Ulva.....	"	14	29	13	24	23	13	20	20	17	27	27	27	258	63·04	·24
St. Andrews, Water Works ..	Fife	3	16	18	18	18	18	18	12	10	19	18	17	204	38·85	·19
Aberfeldy, Dall Avon	Perth	11	23	16	16	18	11	17	16	12	25	21	24	219	48·47	·22

Fettercairn, The Burn	1	18	21	20	15	17	18	17	11	7	21	19	25	209	45.52	22
Logie Coldstone, Loanhead ..	1	17	23	25	19	18	19	21	16	15	23	20	22	238	41.98	18
New Deer Schoolhouse	4	16	22	25	21	18	22	16	16	17	23	18	20	234	36.04	15
Gordon Castle	2	19	23	24	14	21	18	22	14	13	20	19	19	226	35.84	16
Muckerach Lodge [Grantown] ..	3	20	20	22	18	22	20	21	16	14	18	18	16	223	38.28	17
Drumnadrochit	9	25	25	22	20	17	18	23	16	11	20	20	25	239	49.19	21
Loch Nevis, Inverie	12	29	20	12	21	19	13	23	19	17	23	24	25	245	90.74	37
Glenleven, Kinlochmore	17	28	21	12	21	23	17	18	16	16	24	26	24	246	103.94	42
Skye, Portree.....	18	29	22	12	20	25	14	20	13	18	24	23	25	245	57.25	23
Achnasheen Ledgowan	4	27	22	21	21	16	14	18	13	15	17	21	26	231	88.64	38
Dunrobin Castle	2	21	15	15	14	18	14	12	13	11	18	18	17	186	35.91	19
Loch More, Achfary	5	28	23	19	24	19	22	16	14	18	20	24	27	256	84.38	33
Thurso, Buckies	3	25	21	28	18	19	21	20	17	17	24	21	29	258	40.87	16
Scotland	(Mean of 27 stations)...	24	21	17	18	20	16	18	15	15	23	22	23	232	54.90	24
IRELAND.																
Castletownshend, Seafeld	6	24	21	18	21	20	10	6	12	10	24	28	25	219	45.96	21
Mallow, Longueville	9	22	21	14	17	20	16	7	14	13	29	23	18	214	42.31	20
Kenmare, Derreen	4	29	22	18	21	19	19	9	16	13	29	27	24	246	75.51	31
Waterford, Brook Lodge	3	21	24	18	18	19	16	9	10	10	22	20	14	201	39.88	20
Nenagh, Castle Lough.....	1	25	25	18	19	18	17	12	16	10	29	21	20	230	43.64	19
Cahir, Suirvale	3	26	24	19	19	18	18	11	15	13	27	20	20	230	36.76	16
Killadysert, Paradise Hill	3	28	22	22	24	22	14	13	16	13	31	25	21	252	47.90	19
Gorey, Courtown House	4	19	23	20	16	17	15	10	14	8	25	21	15	202	38.56	19
Abbey Leix, Blandsfort	2	27	26	23	20	18	14	15	16	12	26	20	24	241	41.81	17
Straffan House	2	22	22	20	17	12	9	13	14	10	26	18	23	206	38.96	19
Kells, Headfort.....	4	24	23	17	18	17	14	15	15	9	29	22	23	226	39.68	18
Moate, Coolatore	1	24	23	19	22	20	15	16	16	13	31	20	23	242	39.86	16
Ballynahinch Castle	3	31	22	15	25	20	15	17	18	20	31	29	24	267	70.96	27
Woodlawn	4	29	23	21	21	16	16	15	15	15	31	26	18	246	42.77	17
Crossmolina, Enniscoe	2	28	23	21	20	24	15	13	21	20	30	28	28	271	62.50	23
Collooney, Markree Observatory ..	2	29	20	19	23	23	17	21	20	20	31	28	23	274	55.31	20
Belurabet, Cloverhill.....	1	26	21	13	19	20	18	13	17	12	29	26	20	234	39.59	17
Seaforde	2	27	22	13	15	19	14	14	15	11	27	19	21	217	41.20	19
Ballymena, Harryville	5	26	23	18	20	23	16	16	21	10	29	23	26	251	44.28	18
Myroe, Culmore House	5	22	23	15	19	17	16	11	17	12	24	20	19	215	42.58	20
Omagh, Edenfel	3	27	23	22	18	22	15	13	15	14	30	26	19	244	43.31	18
Dunfanaghy, Horn Head	3	28	29	22	23	25	20	21	25	24	30	28	30	305	50.41	16
Killybegs, Rockmount.....	5	28	23	16	23	21	20	14	17	20	29	26	23	260	69.03	27
Ireland.....	(Mean of 23 stations)...	26	23	18	20	19	16	13	16	14	28	24	22	239	47.51	20
BRITISH ISLES	(" 100 ")...	21	22	19	16	18	16	14	15	13	25	20	21	220	45.63	21

No satisfactory average monthly values have been worked out, and it is therefore impossible to state definitely the periods during which the frequency of rain days was most abnormal. The first two and last three months of the year had 20 or more rain days each, over the country as a whole, the largest number, 25, occurring in October. In Ireland the general number of rain days in this month was 28, many stations in the west having rain on every day. February ranked second in regard to frequency of rain days, having 22 rain days over the country as a whole. The general excess was due however less to a very high rain frequency in the winter months than to a persistent, though not extremely high, frequency throughout the summer half-year. No month, over the country as a whole, had less than 13 rain days, and only July and September had less than 15. Parts of England, Wales and Ireland had rather less than 10 rain days in July, but it is probable that with this small exception rain days were not less numerous than the normal in any part of the British Isles in any month of the year.

DROUGHTS IN 1916.

DROUGHTS of two classes are dealt with :—

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.

The records of the hundred stations utilized in discussing the number of rain days (*ante* pp. [13-15]) have been examined for droughts, and the results compared with similar data for each year since 1886 are set out in the following summary. In 1916 absolute droughts did not occur at 51 stations, practically the average number, and the 49 stations between them reported 52 droughts, or 14 less than the average; only three stations, two on the east coast and one in Anglesey, recorded two. The mean duration of the droughts was 20 days, or 2 days longer than the average.

There really was only one absolute drought, 45 instances being reported in the latter half of July and the earlier half of August; but the shortage of rain at this period was unusually widespread, being general over England and Wales south of Yorkshire, and also over the south of Ireland

and the Irish Sea. The drought began in most places between July 17th and 22nd, but, in a few, as early as July 12th. It lasted as a rule until August 11th or 12th, but in one or two cases terminated on July 31st, and at one or two places continued until August 13th. In one case only the duration reached 29 days, while in a few instances only the minimum number of 15 days was recorded.

Comparative Summary of Droughts, 1887—1916.

	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
1915	68	18	33	38	56	36	50	57
Average	66	18	26	50	53	37	56	58
1916	52	20	29	51	44	33	43	57
Diff.	—14	+2	+3	+1	—9	—4	—13	—1

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

Two stations in the east of England recorded a second drought in May, and two in the west of Scotland noted a drought in March. There

were no absolute droughts in the greater part of Scotland or in the centre or north of Ireland.

Partial droughts were also less frequent than usual, only 44 being reported from 43 stations, and the duration also was less than the average. In England and Wales (except at two stations where a second partial drought occurred in January and February) and in Ireland, the one great partial drought included the absolute drought of July and August, commencing at various dates between July 2nd and 18th, and terminating at various dates between August 10th and 24th, but usually on the 12th. The greatest duration was 43 days. In Scotland a partial drought in February and March affected only a small area.

Droughts in 1916.

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Last- ed.	Began.	Ended.	Last- ed.	Rain.
ENGLAND & WALES			Days			Days	in.
St. Pancras (Camden Square) .. <i>London</i> —2.	July 22	Aug. 11	21	July 14	Aug. 12	30	·24
Tenterden (View Tower) <i>Kent</i> —1.	July 24	Aug. 12	20	July 18	Aug. 24	38	·36
Brighton W.W. (Goldstone Bott.) <i>Sussex</i> —3.	July 22	Aug. 12	22	July 7	Aug. 13	38	·36
Sandown (Free Library) <i>Hampshire</i> —1.	July 22	Aug. 13	23	July 13	Aug. 24	43	·42
Petersfield (Ditcham Park) <i>Hampshire</i> —5.	July 22	Aug. 11	21	July 11	Aug. 13	34	·31
Upton <i>Berkshire</i> —5.	July 22	Aug. 12	22	July 8	Aug. 12	36	·36
Newport Pagnell (The Croft) .. <i>Buckinghamshire</i> —5.	July 28	Aug. 12	16	None			
Cambridge (Botanic Gardens) .. <i>Cambridgeshire</i> —2.	July 22	Aug. 11	21	None			
Southend (Water Works) <i>Essex</i> —3.	July 22	Aug. 13	23	July 14	Aug. 13	31	·21
Lexden (Hill House) <i>Essex</i> —5.	May 14 July 22	May 31 Aug. 12	18 22	July 15	Aug. 13	30	·28
Beccles (Sotterley Hall) <i>Suffolk</i> —3.	July 25	Aug. 13	20	July 13	Aug. 13	32	·31
Swaffham (The Paddocks) <i>Norfolk</i> —4.	July 25	Aug. 11	18	July 18	Aug. 16	30	·20
Salisbury Plain (Shrewton) .. <i>Wiltshire</i> —3.	July 28	Aug. 12	16	July 7	Aug. 12	37	·33
Dorchester (Wollaston House) .. <i>Dorsetshire</i> —3.	July 22	Aug. 11	21	July 7	Aug. 12	37	·36
Ashburton (Druid House) <i>South Devon</i> —4.	July 17	Aug. 11	26	July 7	Aug. 12	37	·23
Martinhoe Rectory <i>North Devon</i> —1.	July 17	Aug. 11	26	July 7	Aug. 11	36	·36

Droughts in 1916—(continued).

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Last- ed.	Began.	Ended.	Last- ed.	Rain
ENGLAND & WALES—(con.)			Days			Days	in.
Bude (The School House)	July 17	Aug. 11	26	July 7	Aug. 11	36	·30
<i>Cornwall—1.</i>							
St. Austell (Trevarna)	July 23	Aug. 11	20	July 7	Aug. 11	36	·27
<i>Cornwall—2.</i>							
Angersleigh (Leigh Court)	July 17	Aug. 11	26	July 7	Aug. 12	37	·23
<i>Somerset—3.</i>							
Mickleton (Bank House)	July 28	Aug. 11	15	None			
<i>Gloucestershire—4.</i>							
Clifton (Harley Place)	July 17	Aug. 11	26	July 13	Aug. 12	31	·27
<i>Gloucestershire—5.</i>							
Hereford (Holmer Hall)	July 28	Aug. 11	15	None			
<i>Herefordshire—1.</i>							
Shifnal (National Schools)	July 22	Aug. 11	21	July 14	Aug. 12	30	·24
<i>Shropshire—4.</i>							
Mayfield House [Ashbourne]	July 28	Aug. 11	15	None			
<i>Staffordshire—5.</i>							
Blaby (Whetstone Road)	July 28	Aug. 12	16	None			
<i>Leicestershire—4.</i>							
Market Deeping (Wilsthorpe) . .	July 24	Aug. 12	20	July 8	Aug. 12	36	·36
<i>Lincolnshire—2.</i>							
Spilsby (Ashby Road)	July 25	Aug. 9	16	None			
<i>Lincolnshire—4.</i>							
Worksop (Hodsock Priory)	July 22	Aug. 12	22	Jan. 3	Feb. 2	31	·26
<i>Nottinghamshire—5.</i>							
Northwich (Winnington)	July 27	Aug. 12	17	None			
<i>Cheshire—2.</i>							
St. Michael's-on-Wyre Vicarage	None			July 13	Aug. 12	31	·24
<i>North Lancashire—5.</i>							
Hull (Pearson Park)	May 15	May 31	17	None			
<i>Yorkshire, East Riding—3.</i>	July 22	Aug. 12	22	..			
Felixkirk (Mount St. John)	July 22	Aug. 11	21	Jan. 2	Feb. 1	31	·31
<i>Yorkshire, North Riding—2.</i>				July 14	Aug. 12	30	·19
Carmarthen (The Friary)	July 25	Aug. 11	18	None			
<i>Carmarthen—2.</i>							
Fishguard (Goodwick Station) . .	July 17	Aug. 11	26	July 14	Aug. 11	29	·29
<i>Pembroke—2.</i>							
Aberystwyth (Gogerddan)	July 17	July 31	15	July 13	Aug. 11	30	·28
<i>Cardigan—2.</i>							
Birmingham W.W (Tyrmynydd)	July 22	Aug. 11	21	July 13	Aug. 11	30	·03
<i>Radnor—1.</i>							
Lake Vyrnwy (Bank Cynon Isaf)	July 26	Aug. 11	17	July 13	Aug. 11	30	·26
<i>Montgomery—5.</i>							
Denbigh (Garn)	July 17	Aug. 11	26	July 7	Aug. 11	36	·35
<i>Denbigh—2.</i>							
Abersoch	July 17	July 31	15	July 13	Aug. 11	30	·11
<i>Carnarvon—4.</i>							
Lligwy	June 7	June 21	15	July 13	Aug. 12	31	·24
<i>Anglesey.</i>	July 17	July 31	15				
Douglas (Clypse Res., Onchan) . .	July 17	July 31	15	None			
<i>Isle of Man.</i>							

Droughts in 1916—(continued).

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Last- ed.	Began.	Ended	Last- ed.	Rain
			Days			Days	in.
SCOTLAND.							
Whithorn (Cutroach)	July 17	July 31	15	July 13	Aug. 12	31	·29
<i>Wigtown—4.</i>							
Lochgilphead (Poltalloch)	None			Feb. 19	Mar. 21	32	·30
<i>Argyll—8.</i>							
Mull (Ulva)	None			Feb. 19	Mar. 21	32	·31
<i>Argyll—14.</i>							
Loch Nevis (Inverie Gardens) . .	Mar. 6	Mar. 21	16	Feb. 21	Mar. 21	30	·29
<i>Inverness—12.</i>							
Skye (Portree)	Mar. 6	Mar. 21	16	None			
<i>Inverness—18.</i>							
IRELAND.							
Castletownshend (Seafeld)	July 16	July 31	16	July 12	Aug. 10	30	·16
<i>Cork—6.</i>							
Mallow (Longueville)	July 12	Aug. 8	28	July 7	Aug. 10	35	·34
<i>Cork—9.</i>							
Kenmare (Derreen)	July 16	July 31	16	July 12	Aug. 10	30	·12
<i>Kerry—4.</i>							
Waterford (Brook Lodge)	July 13	Aug. 10	29	July 6	Aug. 10	36	·29
<i>Waterford—3.</i>							
Nenagh (Castle Lough)	None			July 12	Aug. 10	30	·19
<i>Tipperary—1.</i>							
Cahir (Suirvale)	None			July 7	Aug. 10	35	·31
<i>Tipperary—3.</i>							
Killadysert (Paradise Hill)	None			July 14	Aug. 11	29	·27
<i>Clare—3.</i>							
Gorey (Courtown House)	July 17	Aug. 10	25	July 7	Aug. 13	38	·28
<i>Wexford—4.</i>							
Straffan House	June 9	June 25	17	July 14	Aug. 13	31	·27
<i>Kildare—2.</i>							

RAIN SPELLS IN 1916.

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

The number of rain spells recorded in 1916 at the 100 selected stations was 231, or 61 more than the average of the 14 years available for comparison. Of these years only one recorded a larger number, and that was 1903, with 282, the remarkable character of which first suggested the systematic study of rain spells. The mean duration of the rain spells of 1916 was 20 days, or 1 day less than the average, but the mean rainfall per day was .29 in., or .03 in. above the average, a figure which was equalled in 1911, 1913 and 1914, but never exceeded. The general frequency of long-continued rainy weather is indicated by the fact that only 19 stations out of the hundred failed to report a rain spell, and these were mainly in the eastern counties of England and Scotland. Three or more rain spells were reported from 40 stations, or 14 more than the average, the number having been exceeded only in 1903 and 1910. The stations where many rain spells occurred were, as usual, those in Ireland and the west of Great Britain.

Comparative Table of Rain Spells at 100 Stations.

Year.	No. of Rain Spells.	DURATION OF SPELLS.				STATIONS WITH			
		Mean.		Greatest.					
		days.	Mean R per day. in.	days.	Mean R per day. in.	None.	1 or 2.	3 or 4.	5 or more.
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
1916...	231	20	.29	62	.28	19	41	28	12
Average	170	21	.26	51	.28	30	43	18	8

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

Rain Spells of a Mean Rate of .40 in. or more per day in 1916.

Div.	Station.	Began.	Ended.	Lasted.	Total Fall.	Rain per Day.		
						Max.	Min.	Mean
				days.	in.	in.	in.	in.
V.	Dorchester	Oct. 26	Nov. 10	16	7.79	1.31	.01	.49
..	Ashburton ....1915	Dec. 20	Jan. 8	20	8.07	1.44	.01	.40
..	"	Feb. 2	Feb. 21	20	8.83	1.80	.02	.44
..	"	Oct. 22	Nov. 10	20	11.45	1.74	.02	.57
..	St. Austell	Oct. 22	Nov. 11	21	9.55	1.08	.01	.45
..	Angersleigh	Oct. 22	Nov. 9	19	8.59	1.25	.02	.45
IX.	Settle	Oct. 1	Oct. 18	18	7.96	2.08	.01	.44
X.	Dungeon Ghyll 1915	Dec. 20	Jan. 12	24	16.54	2.35	.02	.69
..	"	Jan. 14	Jan. 30	17	12.69	3.63	.01	.75
..	"	Apr. 10	Apr. 25	16	8.65	1.90	.03	.54
..	"	Oct. 2	Oct. 18	17	16.42	3.18	.04	.97
..	"	Oct. 22	Nov. 14	24	16.25	2.59	.01	.68
XI.	Treherbert 1915	Dec. 20	Jan. 21	33	18.67	2.50	.01	.57
..	"	Feb. 1	Feb. 20	20	12.43	2.91	.03	.62
..	"	Oct. 1	Oct. 18	18	11.49	2.85	.09	.64
..	"	Oct. 22	Nov. 10	20	14.80	2.09	.06	.74
..	Tyrmynydd ....1915	Dec. 20	Jan. 7	19	8.75	1.11	.01	.46
..	"	Feb. 1	Feb. 18	18	7.57	1.79	.05	.42
..	"	Oct. 22	Nov. 10	20	9.30	1.55	.01	.47
..	Lake Vyrnwy ..1915	Dec. 20	Jan. 7	19	10.84	2.02	.03	.57
..	"	Oct. 26	Nov. 10	16	6.77	1.19	.02	.42
XV.	Lochgilphead	Oct. 2	Oct. 19	18	7.90	1.28	.02	.44
..	Rothsay	Oct. 2	Oct. 18	17	6.84	1.50	.02	.40
XVIII.	Loch Nevis (Inverie)							
..	1915	Dec. 20	Jan. 26	28	12.73	1.25	.04	.45
..	"	Jan. 31	Feb. 18	19	8.89	1.50	.03	.47
..	"	Oct. 28	Nov. 12	16	8.26	1.88	.03	.52
..	Kinlochmore ..1915	Dec. 29	Jan. 15	18	13.96	2.38	.06	.78
..	"	Oct. 23	Nov. 12	21	11.31	2.14	.03	.54
..	"	Dec. 17	Dec. 31	15	8.28	1.37	.04	.55
..	Achnasheen ..1915	Dec. 31	Jan. 15	16	8.76	1.19	.06	.55
..	"	Feb. 3	Feb. 18	16	7.63	.97	.11	.48
..	Loch More (Achfary)							
..	1915	Dec. 31	Jan. 26	27	14.02	1.28	.07	.52
..	"	Feb. 3	Feb. 17	15	6.25	1.11	.02	.42
XX.	Kenmare	Dec. 21	Jan. 7	18	9.26	1.71	.03	.51
..	"	Oct. 20	Nov. 10	22	13.33	4.07	.02	.61
XXII.	Ballynahinch Castle..	Oct. 1	Nov. 13	44	17.56	2.03	.01	.40
..	"	Nov. 15	Nov. 30	16	7.08	1.90	.04	.44
XXIII.	Killybegs	Apr. 6	Apr. 25	20	9.08	1.41	.01	.45

Rain spells occurred somewhere in every month of the year except September, but of the 231 cases dealt with only 14 were in the five months between May and September inclusive, none of these being in England, while the five months, January to March, and October to November, accounted for 168. There were only 9 instances in December. Nearly

half the recorded rain spells were in two periods, the first extending from the latter part of December, 1915, into January, 1916, the second in October and November, 1916.

The great winter rain spell which brought in the new year was practically universal over Ireland and the south and west of Scotland, but affected only a small part of the west of England and Wales.

The great autumn rain spell of October and November scarcely affected Scotland or the north-east of England; but it appeared in most parts of Ireland, Wales, and the west and south of England.

The minor rain spells were of a local character and for the most part occurred in the regions of the west and north, where rain is normally frequent and persistent.

We print as usual a table of the rain spells with an average daily fall of .40 in. or more. As usual the Lake District shows the most remarkable instances, all the five recorded at Dungeon Ghyll being repeated in the extreme list; the daily average of each of these exceeded half an inch, and the most remarkable just fell short of an inch.

Table of Rain Spells, 1916.

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)	Mar. 13	Mar. 28	16	1.99	.62	.01	.12
<i>Kent—1.</i>	Oct. 24	Nov. 7	15	5.24	.66	.01	.35
Brighton W.W. (Goldstone Bottom) <i>Sussex—3.</i>	Oct. 22	Nov. 8	18	5.15	.57	.03	.29
Sandown (Free Library)	Oct. 22	Nov. 8	18	5.06	.67	.04	.28
<i>Hampshire—1.</i>							
Petersfield (Ditcham Park)	Oct. 22	Nov. 8	18	6.31	.96	.01	.35
<i>Hampshire—5.</i>							
Upton	Oct. 22	Nov. 8	18	3.80	.59	.01	.21
<i>Berkshire—5.</i>							
Cambridge (Botanic Gardens)	Feb. 22	Mar. 8	16	2.22	.60	.01	.14
<i>Cambridgeshire—2.</i>							
Salisbury Plain (Shrewton)	Feb. 2	Feb. 18	17	3.31	.90	.01	.19
<i>Wiltshire—3.</i>	Oct. 24	Nov. 10	18	6.66	.85	.02	.37
Dorchester (Wollaston House) 1915	Dec. 20	Jan. 7	19	5.12	1.13	.01	.27
<i>Dorchester—3.</i>	Oct. 26	Nov. 10	16	7.79	1.31	.01	.49
Ashburton (Druid House) 1915	Dec. 20	Jan. 8	20	8.07	1.44	.01	.40
<i>South Devon—4.</i>	Feb. 2	Feb. 21	20	8.83	1.80	.02	.44
	Oct. 22	Nov. 10	20	11.45	1.74	.02	.57
Martinhoe Rectory	Oct. 22	Nov. 9	19	6.12	.66	.03	.32
<i>North Devon—1.</i>							

Table of Rain Spells, 1916—(continued).

STATION & COUNTY.	Began.	Ended.	Last- ed.	Total Rain.	RAIN PER DAY.		
					Max.	Min.	Mean
ENGLAND & WALES—(con.)			Days	in.	in.	in.	in.
Bude (The School House)	Feb. 2	Mar. 3	31	6.61	1.08	.01	.21
Cornwall—1.	Apr. 30	May 17	18	1.96	.33	.02	.11
	Oct. 22	Nov. 11	21	4.75	.56	.03	.23
St. Austell (Trevarna) 1915	Dec. 21	Jan. 8	19	4.02	.85	.01	.21
Cornwall—2.	Feb. 2	Feb. 21	20	7.09	1.96	.03	.35
	Oct. 22	Nov. 11	21	9.55	1.08	.01	.45
Angersleigh (Leigh Court)	Feb. 2	Feb. 21	20	4.74	1.28	.01	.24
Somerset—3.	Oct. 22	Nov. 9	19	8.59	1.25	.02	.45
Clifton (Harley Place)	May 1	May 16	16	2.33	.35	.02	.15
Gloucestershire—5.	Oct. 1	Oct. 18	18	4.21	1.45	.01	.23
	Oct. 22	Nov. 10	20	5.08	.71	.02	.25
Hereford (Holmer Hall)	Oct. 26	Nov. 10	16	3.33	.53	.01	.21
Herefordshire—1.							
Mayfield House [Ashbourne]	Oct. 22	Nov. 9	19	3.60	.52	.02	.19
Staffordshire—5.							
Blaby (Whetstone Road)	Oct. 22	Nov. 8	18	2.24	.37	.03	.12
Leicestershire—4.							
St. Michaels-on-Wyre Vicarage . .	Oct. 26	Nov. 10	16	3.43	.67	.02	.21
North Lancashire—5.							
Settle (Gas Works)	Apr. 10	Apr. 24	15	2.77	.50	.03	.18
Yorkshire, West Riding—2.	Oct. 1	Oct. 18	18	7.96	2.08	.01	.44
	Oct. 22	Nov. 13	23	6.79	1.17	.01	.30
Meltham (Harewood Lodge) . . 1915	Dec. 19	Jan. 2	15	4.81	1.03	.01	.32
Yorkshire, West Riding—8.	Apr. 10	Apr. 24	15	3.18	.73	.01	.21
	Oct. 22	Nov. 10	20	6.14	1.05	.01	.31
Hull (Pearson Park)	Feb. 21	Mar. 17	26	4.68	.43	.01	.18
Yorkshire, East Riding—2.							
Thirsk (Mount St. John)	Feb. 21	Mar. 16	25	3.24	.46	.01	.13
Yorkshire, North Riding—2.							
Sleights (Brook Park)	Feb. 24	Mar. 9	15	2.04	.45	.01	.14
Yorkshire, North Riding—5.	Dec. 2	Dec. 16	15	2.87	.67	.01	.19
Sunderland (W. Hendon Ho.)	Feb. 25	Mar. 17	22	3.23	.52	.01	.15
Durham—2.	Oct. 22	Nov. 7	17	1.97	.35	.01	.12
Glanton (Glanton Pyke Gardens)	Feb. 21	Mar. 16	25	5.37	.58	.01	.21
Northumberland—6.							
Carlisle (Newby Grange) 1915	Dec. 20	Jan. 7	19	2.68	.69	.01	.14
Cumberland—1.	Oct. 27	Nov. 10	15	2.03	.63	.01	.14
Kirkby Stephen (Redman House)	Oct. 22	Nov. 10	20	5.52	1.32	.01	.28
Westmorland—1.							
Dungeon Ghyll. 1915	Dec. 20	Jan. 12	24	16.54	2.35	.02	.69
Westmorland—2.	Jan. 14	Jan. 30	17	12.69	3.63	.01	.75
	Apr. 10	Apr. 25	16	8.65	1.90	.03	.54
	Oct. 2	Oct. 18	17	16.42	3.18	.04	.97
	Oct. 22	Nov. 14	24	16.25	2.59	.01	.68
Treherbert (Tyn-y-waun) 1915	Dec. 20	Jan. 21	33	18.67	2.50	.01	.57
Glamorgan—6.	Feb. 1	Feb. 20	20	12.43	2.91	.03	.62
	Oct. 1	Oct. 18	18	11.49	2.85	.09	.64
	Oct. 22	Nov. 10	20	14.80	2.09	.06	.74

Table of Rain Spells, 1916—(continued).

STATION & COUNTY.	Began.	Ended.	Last- ed.	Total Rain.	RAIN PER DAY.		
					Max.	Min.	Mean
ENGLAND & WALES—(con.)			Days	in.	n.	in.	in.
Carmarthen (The Friary) 1915	Dec. 20	Jan. 12	24	5.21	.55	.02	.22
Carmarthen—2.	Feb. 1	Feb. 20	20	4.73	.89	.03	.24
	Oct. 1	Oct. 19	19	4.92	1.25	.01	.26
	Oct. 22	Nov. 13	23	8.88	.97	.01	.39
Fishguard (Goodwick Station) 1915	Oct. 22	Nov. 11	21	5.40	.90	.02	.26
Pembroke—2.							
Aberystwyth (Gogerddan) 1915	Dec. 20	Jan. 21	33	7.21	.89	.01	.22
Cardigan—2.	Feb. 1	Feb. 15	15	3.91	.49	.01	.26
	May 2	May 16	15	3.12	.60	.02	.21
	Oct. 22	Nov. 11	21	5.41	1.75	.03	.26
Birmingham W.W. 1915	Dec. 20	Jan. 7	19	8.75	1.11	.01	.46
(Tyrmynydd)	Jan. 9	Jan. 23	15	2.33	.39	.01	.16
Radnor—1.	Feb. 1	Feb. 18	18	7.57	1.79	.05	.42
	Oct. 22	Nov. 10	20	9.30	1.55	.01	.47
Lake Vyrnwy 1915	Dec. 20	Jan. 7	19	10.84	2.02	.03	.57
(Bank Cynon Isaf)	Feb. 1	Feb. 18	18	6.37	1.54	.07	.35
Montgomery—5.	Oct. 26	Nov. 10	16	6.77	1.19	.02	.42
Denbigh (Garn) 1915	Oct. 22	Nov. 9	19	3.88	.69	.03	.20
Denbigh—2.							
Lligwy 1915	Oct. 26	Nov. 10	16	2.48	.38	.01	.16
Anglesey.							
Douglas (Clype Res. Onchan) 1915	Dec. 19	Jan. 2	15	4.67	.80	.01	.31
Isle of Man.	Feb. 3	Feb. 19	17	2.43	.64	.01	.14
	Oct. 1	Oct. 18	18	6.89	2.11	.02	.38
	Oct. 22	Nov. 10	20	4.93	.72	.02	.25
SCOTLAND.							
Whithorn (Cutroach) 1915	Apr. 10	Apr. 25	16	3.28	.61	.01	.20
Wigtown—4.	Oct. 2	Oct. 18	17	5.79	.87	.02	.34
Jardington [Dumfries] 1915	Dec. 20	Jan. 10	22	4.82	.72	.01	.22
Kirkcudbright—5.	Oct. 2	Oct. 16	15	5.62	.99	.04	.37
	Oct. 22	Nov. 10	20	4.33	.87	.03	.22
Balerno (Cockburn Hill)..... 1915	Dec. 19	Jan. 7	20	4.39	.79	.02	.22
Midlothian—5.							
Girvan (Pinmore) 1915	Dec. 29	Jan. 30	33	6.44	.82	.01	.20
Ayr—8.	Oct. 2	Oct. 18	17	4.90	.68	.02	.29
New Cumnock 1915	Dec. 19	Jan. 12	25	8.56	1.39	.02	.34
(Ayr Sanatorium)	Jan. 14	Jan. 29	16	5.06	1.05	.01	.32
Ayr—13.	Oct. 27	Nov. 11	16	5.45	1.55	.03	.34
Stirling (Touch Res. No. 1) 1915	Dec. 19	Jan. 7	20	7.07	1.00	.03	.35
Stirling—1.	Oct. 27	Nov. 11	16	3.91	1.10	.02	.24
Rothsay (Crichton Road) 1915	Dec. 19	Jan. 12	25	6.93	.92	.01	.28
Bute—1.	Jan. 14	Jan. 30	17	3.53	.58	.01	.21
	Feb. 1	Feb. 18	18	6.55	1.28	.01	.36
	Apr. 10	Apr. 25	16	4.67	.65	.01	.29
	Oct. 2	Oct. 18	17	6.48	1.50	.02	.40
	Oct. 27	Nov. 12	17	3.75	.50	.02	.22
	Nov. 27	Dec. 12	16	2.30	.56	.01	.14
	Dec. 15	Dec. 31	17	4.52	.61	.01	.27

Table of Rain Spells, 1916—(continued).

STATION & COUNTY.	Began.	Ended.	Last- ed.	Total Rain.	RAIN PER DAY.		
					Max.	Min.	Mean
SCOTLAND—(con.)			Days	in.	in.	in.	in.
Lochgilphead (Poltalloch) ..1915	Dec. 29	Jan. 12	15	5.40	.95	.04	.36
Argyll—8.	Jan. 14	Jan. 29	16	4.43	1.10	.03	.28
	Feb. 1	Feb. 18	18	7.09	1.47	.04	.39
	Oct. 2	Oct. 19	18	7.90	1.28	.02	.44
	Oct. 22	Nov. 13	23	5.65	.70	.02	.25
	Dec. 15	Dec. 31	17	3.90	.60	.02	.23
Campbeltown (Witchburn)....1915	Dec. 20	Jan. 14	26	5.58	.72	.01	.21
Argyll—10.	Oct. 2	Oct. 20	19	5.12	.71	.04	.27
Islay (Fallabus) .....1915	Dec. 29	Jan. 29	32	6.61	.61	.03	.21
Argyll—14.	Feb. 1	Feb. 18	18	5.44	.58	.03	.30
	Apr. 9	Apr. 25	17	3.87	.71	.01	.23
	Oct. 2	Oct. 18	17	5.64	.88	.03	.33
	Oct. 22	Nov. 14	24	4.60	.49	.01	.19
	Nov. 18	Dec. 10	23	4.49	.75	.02	.20
Mull (Ulva) .....1915	Dec. 29	Jan. 29	32	8.33	.70	.02	.26
Argyll—14.	Apr. 6	Apr. 25	20	4.33	.91	.01	.22
	Oct. 30	Nov. 14	16	5.66	1.20	.01	.35
	Dec. 17	Dec. 31	15	4.93	.96	.05	.33
Aberfeldy (Dall Avon)	Oct. 22	Nov. 7	17	5.60	1.73	.01	.33
Perth—11.							
Logie Coldstone (Loanhead)	Feb. 21	Mar. 16	25	3.03	.33	.01	.12
Aberdeen—1.							
New Deer Schoolhouse	Feb. 24	Mar. 12	18	1.72	.26	.02	.10
Aberdeen—4.	May 28	June 12	16	3.48	.65	.01	.22
Muckerach Lodge [Grantown]	May 27	June 11	16	4.21	1.00	.02	.26
Inverness—3.	June 27	July 13	17	2.94	.87	.02	.17
Drumnadrochit.....	May 27	June 10	15	4.04	.73	.01	.27
Inverness—9.							
Loch Nevis (Inverie) .....1915	Dec. 30	Jan. 26	28	12.73	1.25	.04	.45
Inverness—12.	Jan. 31	Feb. 18	19	8.89	1.50	.03	.47
	July 6	July 20	15	2.94	.73	.01	.20
	Oct. 28	Nov. 12	16	8.26	1.88	.03	.52
Glenleven (Kinlochmore) ....1915	Dec. 29	Jan. 15	18	13.96	2.38	.06	.78
Inverness—17.	Oct. 23	Nov. 12	21	11.31	2.14	.03	.54
	Nov. 17	Dec. 3	17	5.82	1.32	.02	.34
	Dec. 17	Dec. 31	15	8.28	1.37	.04	.55
Skye (Portree) .....1915	Dec. 30	Jan. 15	17	3.71	.50	.03	.22
Inverness—18.	Jan. 31	Feb. 21	22	6.27	1.10	.02	.29
	May 19	June 8	21	3.05	1.06	.01	.15
	Oct. 25	Nov. 12	19	5.56	.75	.02	.29
	Nov. 20	Dec. 7	18	5.78	.98	.02	.32
Achnasheen (Ledgowan) ....1915	Dec. 31	Jan. 15	16	8.76	1.19	.06	.55
Ross—4.	Feb. 3	Feb. 18	16	7.63	.97	.11	.48
	Apr. 7	Apr. 25	19	5.24	.55	.02	.28
Loch More (Achfary) .....1915	Dec. 31	Jan. 16	27	14.02	1.28	.07	.52
Sutherland—5.	Feb. 3	Feb. 17	15	6.25	1.11	.02	.42
	Nov. 17	Dec. 10	24	7.98	1.39	.02	.33
Thurso (Buckies)	Oct. 3	Oct. 18	16	3.30	.77	.02	.21
Caitness—3.							

Table of Rain Spells, 1916—(continued).

STATION & COUNTY.	Began.	Ended.	Last- ed.	Total Rain.	RAIN PER DAY		
					Max.	Min.	Mean
IRELAND.			Days	in.	in.	in.	n.
Castletownshend (Seafield) ..1915	Dec. 21	Jan. 7	18	4.80	.74	.03	.27
Cork—6.	Jan. 23	Feb. 20	29	6.48	.73	.01	.22
	Oct. 24	Nov. 17	25	8.16	2.20	.02	.33
Mallow (Longueville)	Jan. 31	Feb. 20	21	5.53	.59	.03	.26
Cork—9.	Oct. 17	Nov. 9	24	7.47	.91	.01	.31
Kenmare (Derreen)	Dec. 21	Jan. 7	18	9.26	1.71	.03	.51
Kerry—4.	Jan. 11	Feb. 20	41	14.40	1.84	.02	.35
	Oct. 20	Nov. 10	22	13.33	4.07	.02	.61
Waterford (Brook Lodge) ....1915	Dec. 22	Jan. 6	16	4.44	.97	.01	.28
Waterford—3.							
Nenagh (Castle Lough)	Dec. 21	Jan. 7	18	5.27	.90	.03	.29
Tipperary—1.	Jan. 31	Feb. 20	21	5.31	.75	.01	.25
	Apr. 10	Apr. 25	16	3.72	.77	.02	.23
	Oct. 20	Nov. 10	22	5.31	.98	.01	.24
Killadysert (Paradise Hill) ..1915	Dec. 20	Jan. 14	26	4.59	.87	.01	.18
Clare—3.	Feb. 1	Feb. 20	20	6.63	1.13	.05	.33
	Apr. 2	Apr. 20	19	2.50	.43	.01	.13
	Oct. 1	Nov. 10	41	11.42	1.28	.01	.28
Gorey (Courtown House) ..1915	Dec. 21	Jan. 5	16	4.23	1.08	.04	.26
Wexford—4.	Feb. 13	Mar. 3	20	3.70	.53	.01	.19
	Mar. 6	Mar. 21	16	2.24	.45	.01	.14
Abbey Leix (Blandsfort) ....1915	Dec. 20	Jan. 12	24	4.04	.56	.01	.17
Queen's County—2.	Feb. 5	Feb. 20	16	3.05	.66	.01	.19
	Apr. 10	Apr. 25	16	2.37	.37	.01	.15
	Nov. 27	Dec. 12	16	3.34	1.50	.01	.21
Straffan House.....1915	Dec. 20	Jan. 9	21	3.67	.49	.01	.17
Kildare—2.	Apr. 12	Apr. 26	15	2.53	.42	.05	.17
Kells (Headfort)	Dec. 19	Jan. 12	25	4.23	.76	.01	.17
Meath—4.	Feb. 2	Feb. 18	17	2.69	.44	.01	.16
	Apr. 10	Apr. 25	16	2.59	.42	.01	.16
	Oct. 1	Oct. 22	22	5.30	.93	.02	.24
Moate (Coolatore)	Dec. 20	Jan. 8	20	3.88	.81	.01	.19
Westmeath—1.	Oct. 1	Nov. 6	37	9.11	1.17	.01	.25
Ballynahinch Castle	Dec. 20	Feb. 19	62	17.15	1.06	.01	.28
Galway—3.	Apr. 6	Apr. 27	22	5.32	1.03	.02	.24
	Oct. 1	Nov. 13	44	17.56	2.03	.01	.40
	Nov. 15	Nov. 30	16	7.08	1.90	.04	.44
Woodlawn.....1915	Dec. 20	Jan. 12	24	4.54	.58	.02	.19
Galway—4.	Jan. 14	Jan. 30	17	1.89	.38	.01	.11
	Feb. 1	Feb. 20	20	3.62	.52	.01	.18
	Oct. 1	Nov. 11	42	9.51	1.40	.01	.23
Crossmolina (Enniscoe)	Dec. 19	Jan. 13	26	8.07	1.96	.03	.31
Mayo—2.	Jan. 15	Jan. 29	15	3.81	.71	.05	.25
	Feb. 1	Feb. 18	18	6.69	.71	.06	.37
	May 21	June 8	19	3.54	.55	.03	.19
	Oct. 1	Oct. 22	22	7.58	1.14	.02	.34
	Oct. 24	Nov. 9	17	5.52	.89	.08	.32
	Nov. 13	Nov. 30	18	5.16	1.43	.02	.29
	Dec. 15	Dec. 31	17	2.87	.42	.02	.17

Table of Rain Spells, 1916—(continued).

STATION & COUNTY.	Began.	Ended.	Last- ed.	Total Rain.	RAIN PER DAY.		
					Max.	Min.	Mean
			Days	in.	in.	in.	in.
IRELAND—(con.)							
Collooney (Markree Observy.) 1915	Dec. 19	Jan. 12	25	5·60	·68	·01	·22
Sligo—2.	Jan. 14	Jan. 30	17	2·40	·44	·01	·14
	Apr. 10	Apr. 25	16	5·26	·80	·02	·33
	Oct. 1	Nov. 11	42	11·55	·84	·01	·28
	Nov. 15	Nov. 30	16	4·46	1·25	·02	·28
Belturbet (Cloverhill) 1915	Dec. 19	Jan. 3	16	3·90	·55	·03	·24
Cavan—1.	Feb. 5	Feb. 19	15	2·73	·52	·02	·18
	Apr. 10	Apr. 25	16	3·59	·88	·02	·22
	Oct. 2	Oct. 24	23	4·65	·84	·01	·20
	Oct. 26	Nov. 10	16	3·77	·55	·01	·24
Seaforde 1915	Dec. 19	Jan. 15	28	5·23	1·18	·01	·19
Down—2.	Oct. 26	Nov. 10	16	3·75	·72	·01	·23
Ballymena (Harryville) 1915	Dec. 19	Jan. 3	16	3·33	·68	·03	·21
Antrim—5.	Feb. 5	Feb. 19	15	2·89	·45	·03	·19
	Apr. 10	Apr. 25	16	4·58	·94	·02	·29
	May 21	June 9	20	5·45	1·49	·03	·27
	Aug. 10	Aug. 27	18	2·77	·53	·02	·15
	Oct. 2	Oct. 20	19	4·80	·80	·02	·25
	Oct. 22	Nov. 10	20	3·39	·48	·02	·17
	Nov. 18	Dec. 13	26	4·11	·71	·02	·16
Limavady 1915	Dec. 18	Jan. 5	19	3·23	·52	·02	·17
(Culmore Ho., Myroe)							
Londonderry—5.							
Omagh (Edenfel) 1915	Dec. 19	Jan. 12	25	4·86	·60	·01	·19
Tyrone—3.	Feb. 1	Feb. 18	18	3·92	·68	·02	·22
	May 21	June 9	20	4·19	·77	·01	·21
	Oct. 1	Oct. 18	18	5·96	1·27	·02	·33
	Oct. 20	Nov. 11	23	4·23	·62	·01	·18
	Nov. 18	Dec. 10	23	2·85	·52	·01	·12
Dunfanaghy (Horn Head) .. 1915	Dec. 19	Jan. 15	28	5·34	·94	·02	·19
Donegal—3.	Feb. 1	Mar. 6	35	5·88	·62	·01	·17
	Apr. 10	Apr. 25	16	3·98	·75	·04	·25
	May 21	June 10	21	4·41	1·57	·03	·21
	Aug. 22	Sept. 21	31	3·39	·68	·01	·11
	Oct. 2	Nov. 12	42	9·32	·76	·01	·22
	Nov. 15	Dec. 12	28	5·63	·84	·01	·20
	Dec. 14	Dec. 31	18	2·59	·30	·01	·14
Killybegs (Rockmount) 1915	Dec. 20	Jan. 15	27	8·61	1·23	·01	·32
Donegal—5.	Feb. 1	Feb. 18	18	5·95	·84	·03	·33
	Apr. 6	Apr. 25	20	9·08	1·41	·01	·45
	Oct. 1	Oct. 19	19	7·39	·92	·04	·39
	Oct. 25	Nov. 11	18	6·29	·81	·04	·35

DURATION OF RAINFALL IN 1916.

RECORDS are again available from 48 recording rain gauges. Four which appeared last year have dropped out, unfortunately including the only record from the Highlands. Four which did not appear last year are added, including the return of the record from University College, Cork, two new London records from the Meteorological Office, and the Greg Observatory, Lancaster.

The Camden Square record, so far as the annual totals are concerned, is compared with the 35 years' average in a special table. This shows that the duration in 1916 was greater than in any other year except 1903 since observations of duration began in 1881. This is in accordance with the rainfall, the amount of which in 1916 was second only to that in 1903. The mean rate of rainfall per hour was close to the average, and has frequently been exceeded. The months with greatest duration were February, March, and November, these three yielding practically half the duration of the year.

Mr. Salter's paper on the measurement of rainfall duration, an abstract of which is given in Part I. of this volume, lays stress on the problems of interpreting automatic rainfall records, and calls attention to the differences which may arise through the use of various patterns of recorders. Mechanical differences are well brought out in the four records at Mount St. John, Thirsk, where Mr. Walker found the duration of rainfall in 1916, as given by the four types of gauge, to be 688·6, 691·6, 639·9 and 631·4 hours respectively. We do not propose to enter on a discussion of instruments or methods on this occasion, and merely remark that the computations of the Meteorological Office—those records printed in old style type—take account only of rain falling at a greater rate than ·004 in. (or exactly 0·1 mm.) per hour, while the other records may include rains of less intensity.

Taking the figures as given in the following tables, the greatest duration for the year was at Eskdalemuir Observatory, with 1451·2 hours, Cray Reservoir, Breconshire, coming close after with 1396·3 hours, and five other stations also recorded more than 1000 hours. These were all in the west of England, South Wales or Yorkshire. The least duration was at Nottingham, with 461·8 hours, the only instance less than 500 hours in the year. Roughly speaking the duration was greatest in those parts of

the country near which the greatest rainfall occurs. There is no doubt that the year was everywhere characterized by longer rainfall than in 1915, which was itself remarkable in this respect. We are of opinion that only 1903 had a greater duration than 1916 so far as the records can show.

Comparison of Amount, Duration and Intensity of Rainfall, and Number of Rain Days at Camden Square in 1916 with the Average for 35 years, 1881-1915.

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	114	486·3	112	·057	102	152	94
1882	27·14	111	480·7	111	·056	100	165	102
1883	24·40	100	393·5	91	·062	111	164	101
1884	20·35	83	336·8	77	·060	107	150	93
1885	26·64	109	470·0	108	·057	102	165	102
1886	27·01	111	427·2	98	·063	112	176	109
1887	19·21	78	300·3	69	·064	114	140	87
1888	27·74	114	435·7	100	·064	114	173	107
1889	23·85	98	428·5	99	·056	100	169	104
1890	21·23	87	409·5	94	·052	93	161	99
1891	28·15	115	490·3	113	·057	102	178	110
1892	22·61	93	372·5	86	·061	109	158	98
1893	19·80	81	388·0	89	·051	91	148	91
1894	27·94	114	477·7	110	·058	104	185	114
1895	21·47	88	380·0	87	·057	102	137	85
1896	23·52	96	404·3	93	·058	104	159	98
1897	22·86	93	371·2	85	·062	111	164	101
1898	<i>m</i> 17·69	72	<i>m</i> 298·5	68	·059	105	140	87
1899	22·54	92	337·5	78	·067	120	144	89
1900	23·28	95	366·3	84	·064	114	174	107
1901	22·17	91	310·2	71	<i>M</i> ·071	127	<i>m</i> 128	79
1902	20·84	85	352·5	81	·059	105	162	100
1903	<i>M</i> 38·10	156	<i>M</i> 688·5	159	·055	98	179	110
1904	20·65	84	491·8	113	<i>m</i> ·042	75	160	99
1905	22·97	94	456·4	105	·050	89	162	100
1906	24·26	99	420·4	97	·058	104	163	101
1907	23·01	94	418·8	96	·055	98	175	108
1908	23·67	97	500·7	116	·047	84	157	97
1909	26·75	109	576·5	133	·046	82	190	117
1910	25·36	104	491·2	113	·052	93	186	115
1911	24·79	101	473·0	109	·052	93	155	96
1912	27·88	114	516·2	119	·054	96	180	111
1913	22·41	92	453·0	104	·049	87	163	101
1914	25·72	105	513·6	118	·050	89	168	104
1915	32·18	133	568·9	131	·057	99	152	93
Average.	24·46	100	436·8	100	·056	100	162	100
1916	34·01	139	627·8	144	·054	96	<i>M</i> 193	119
Diff. from average	+ 9·55	+39	+191·0	+44	—·002	—4	+31	+19

Duration of Rainfall in 1916.

D Indicates daily values received. * Charts measured by the British Rainfall Organization.

*Shad Thames Pump. Stat., London.*D

LONDON COUNTY COUNCIL.

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

1916.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	·85	26·3	·032
Feb.	3·08	88·2	·035
March	2·92	96·0	·030
April	1·04	33·3	·031
May	1·51	39·0	·039
June	1·43	35·7	·040
July	·97	23·0	·042
Aug.	5·41	47·0	·117
Sept.	·91	30·8	·030
Oct.	2·63	52·5	·050
Nov.	3·72	85·7	·043
Dec.	2·33	58·8	·040
Year	26·80	616·3	·043

*South Kensington, London.*D*

METEOROLOGICAL OFFICE.

Halliwell Recorder. 70 ft. above sea.

1916.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	·99	24·1	·041
Feb.	2·83	79·2	·036
March	3·61	120·3	·030
April	1·11	31·1	·036
May	1·50	39·1	·038
June	1·62	31·8	·051
July	1·16	17·8	·065
Aug.	4·48	41·1	·109
Sept.	1·33	26·7	·050
Oct.	2·93	59·9	·049
Nov.	3·77	69·2	·054
Dec.	1·89	29·7	·064
Year	27·22	570·0	·048

*St. James's Park, London.*D*

METEOROLOGICAL OFFICE.

N. and Z's Hyetograph. 27 ft. above Sea.

	in.	hours.	in.
Jan.	1·19	25·1	·047
Feb.	3·42	81·8	·042
March	4·34	118·1	·037
April	1·37	27·5	·050
May	1·86	45·3	·041
June	1·67	32·2	·052
July	1·21	16·1	·075
Aug.	6·18	50·0	·123
Sept.	1·44	26·9	·054
Oct.	2·89	58·8	·049
Nov.	3·87	83·1	·047
Dec.	2·37	45·2	·052
Year	31·81	610·1	·052

Hampstead Observatory, London.

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

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

	in.	hours.	in.
Jan.	1·42	41·3	·034
Feb.	4·03	98·6	·041
March	4·58	151·3	·030
April	1·47	28·6	·051
May	2·00	40·0	·050
June	2·59	32·7	·079
July	1·25	17·0	·074
August	4·43	46·6	·095
Sept.	1·36	24·3	·056
Oct.	3·67	66·7	·055
Nov.	5·01	87·7	·057
Dec.	2·58	63·1	·041
Year	34·39	697·9	·049

*Camden Square, London.*D*

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

Casella's Standard. 111 ft. above Sea.

	in.	hours.	in.
Jan.	1·30	30·0	·043
Feb.	3·46	90·9	·038
March	4·67	133·6	·035
April	1·31	29·6	·044
May	1·88	34·7	·054
June	2·19	30·3	·072
July	1·68	18·3	·092
Aug.	5·57	41·0	·136
Sept.	1·48	28·0	·053
Oct.	3·25	55·2	·059
Nov.	4·67	82·2	·057
Dec.	2·55	54·0	·047
Year	34·01	627·8	·054

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

MRS. H. R. MILL.

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

	in.	hours.	in.
Jan.	1·85	59·4	·031
Feb.	5·84	124·9	·047
March	4·89	123·4	·040
April	1·50	33·8	·044
May	2·64	48·0	·055
June	2·71	60·4	·045
July	1·23	22·7	·054
Aug.	2·88	30·7	·094
Sept.	1·72	34·6	·050
Oct.	5·41	99·3	·054
Nov.	6·17	87·3	·071
Dec.	3·94	62·5	·063
Year	40·78	787·2	·052

Park Hill House, Croydon, Surrey.
Late MR. BALDWIN LATHAM, M.Inst.C.E.
265 ft. above Sea.

1916.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	1.16	22.0	.053
Feb.	4.97	93.1	.053
March	4.36	88.2	.049
April	1.42	24.5	.058
May	2.34	27.8	.084
June	2.97	41.5	.072
July ....	.86	11.4	.076
Aug.	3.09	36.2	.085
Sept.	1.35	30.3	.045
Oct.	3.70	50.5	.073
Nov.	5.76	79.9	.072
Dec.	2.94	37.4	.079
Year	34.92	342.8	.064

Kew Observatory, Surrey.
METEOROLOGICAL OFFICE.
Beckley Gauge. 20 ft. above Sea.

	in.	hours.	in.
Jan.	1.15	24.1	.048
Feb.	3.09	82.7	.037
March	3.85	(104.3)	.037
April	1.00	35.0	.029
May	1.61	41.0	.039
June	2.04	34.6	.059
July	1.35	15.9	.085
Aug.	3.92	(44.2)	.088
Sept.	1.46	29.9	.049
Oct.	3.67	60.6	.061
Nov.	3.91	72.3	.054
Dec.	2.18	39.4	.055
Year	29.23	584.0	.050

*Isfield Place, Sussex.D**
MAJOR H. KING.
N. and Z's. Hyetograph. 41 ft. above Sea.

	in.	hours.	in.
Jan.	1.48	46.9	.032
Feb.	4.49	98.9	.045
March	3.69	85.1	.043
April	1.35	29.2	.046
May	2.06	39.0	.053
June	2.78	42.9	.065
July	1.08	20.3	.053
Aug.	2.40	21.7	.111
Sept.	1.42	26.4	.054
Oct.	4.64	82.8	.056
Nov.	4.79	80.4	.060
Dec.	4.09	68.9	.059
Year	34.27	642.5	.053

Edenfield, New Malden, Surrey.
MR. W. J. CARTER, F.R.Met.Soc.
Casella's Recorder. 43 ft. above Sea.

1916.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan. ....	.96	28.7	.033
Feb.	3.56	120.9	.029
March	4.26	144.9	.029
April	1.27	47.5	.027
May	2.24	55.9	.040
June	1.93	69.3	.028
July	2.11	24.6	.086
Aug.	4.18	60.1	.069
Sept.	1.59	38.8	.041
Oct.	3.41	77.6	.044
Nov.	4.71	93.1	.051
Dec.	2.38	50.2	.047
Year	32.60	811.6	.040

The Old House, Sevenoaks, Kent.D
MR. W. TATTERSALL, F.R.Met.Soc.
N. and Z's. Hyetograph. 510 ft. above Sea.

	in.	hours.	in.
Jan.	1.84	66.0	.028
Feb.	5.09	117.0	.043
March	4.35	144.5	.030
April	1.55	55.1	.028
May	2.71	55.0	.049
June	3.26	72.0	.045
July	1.29	32.1	.040
Aug.	2.31	44.5	.052
Sept.	1.25	36.0	.035
Oct.	4.26	107.5	.040
Nov.	5.55	90.0	.062
Dec.	3.23	67.5	.048
Year	36.69	887.2	.041

Timsbury, Hants.
MR. D. KITCHINGMAN, M.Inst.C.E.
N. & Z. Tipping-bucket. 90 ft. above Sea.

	in.	hours.	in.
Jan. ....	.94	33.5	.028
Feb.	4.96	134.5	.037
March	3.27	96.2	.034
April ....	.39	12.7	.031
May	1.36	33.9	.040
June	1.47	42.1	.035
July	1.51	19.0	.079
Aug.	3.64	50.7	.072
Sept.	2.33	33.0	.071
Oct.	6.70	95.1	.070
Nov.	4.88	114.4	.043
Dec.	3.87	78.2	.049
Year	35.32	743.3	.047

*Twyford, Hants.*MR. D. KITCHINGMAN, M.Inst.C.E.
N. & Z. Tipping-bucket. 139 ft. above Sea.

1916.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	1·17	33·3	·035
Feb.	5·36	130·7	·041
March	2·97	85·7	·035
April	·42	14·0	·030
May	1·62	30·7	·052
June	1·69	45·2	·037
July	·95	19·2	·049
Aug.	3·40	42·7	·080
Sept.	2·35	35·7	·066
Oct.	6·70	98·2	·068
Nov.	5·03	110·5	·046
Dec.	4·12	90·2	·046
Year	35·78	736·1	·049

*University College, Reading, Berks.*PROF. W. G. DUFFIELD, F.R.Met.Soc.
N. and Z's. Hyetograph. 153 ft. above Sea.

1916.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	1·10	28·3	·039
Feb.	3·94	93·5	·042
March	4·84	127·6	·038
April	·59	22·2	·027
May	2·13	46·2	·046
June	1·85	42·9	·043
July	·87	11·7	·074
August	4·88	50·3	·097
Sept.	1·57	31·4	·050
Oct.	3·98	76·5	·052
Nov.	3·94	77·6	·051
Dec.	3·11	64·5	·048
Year	32·80	672·7	·049

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

	in.	hours.	in.
Jan.	·85	26·1	·033
Feb.	3·58	85·0	·042
March	4·37	85·5	·051
April	·57	25·3	·022
May	1·47	37·7	·039
June	1·47	33·3	·044
July	1·32	14·9	·089
Aug.	4·16	43·0	·097
Sept.	1·05	23·7	·044
Oct.	3·42	59·3	·058
Nov.	3·31	58·2	·057
Dec.	2·77	39·9	·069
Year	28·34	53·19	·053

*Rookwood, Copdock, Suffolk.D*MR. F. L. BLAND.
N. & Z's. Tipping-bucket. 174 ft. above Sea.

	in.	hours.	in.
Jan.	1·42	29·1	·049
Feb.	3·85	88·8	·043
March	4·12	136·0	·030
April	1·36	42·5	·032
May	1·81	27·5	·066
June	3·72	41·5	·090
July	1·79	37·5	·048
Aug.	6·50	43·0	·151
Sept.	1·16	28·0	·041
Oct.	2·21	49·9	·044
Nov.	4·22	84·0	·050
Dec.	3·03	54·0	·056
Year	35·19	661·8	·053

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

	in.	hours.	in.
Jan.	1·54	24·4	·063
Feb.	3·81	73·6	·052
March	2·96	64·1	·046
April	1·85	33·1	·055
May	2·23	25·6	·087
June	3·66	..	..
July	·94	..	..
Aug.	3·13	..	..
Sept.	1·57	..	..
Oct.	2·35	..	..
Nov.	2·55	..	..
Dec.	3·25	..	..
Year	29·84	..	..

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

	in.	hours.	in.
Jan.	1·63	73·2	·022
Feb.	5·54	155·7	·036
March	3·20	67·9	·047
April	·98	31·7	·031
May	1·58	41·9	·038
June	2·20	40·4	·055
July	1·14	17·2	·066
Aug.	3·79	52·0	·073
Sept.	1·72	36·4	·047
Oct.	6·63	113·9	·058
Nov.	6·94	113·4	·061
Dec.	4·45	80·0	·056
Year	39·80	823·7	·048

*Freedom Park, Plymouth, Devon.D**

MR. JAMES PATON, C.E.

N. and Z's. Hyetograph. 208 ft. above Sea

1916.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	2.15	79.7	.027
Feb.	6.59	173.2	.038
March	3.07	67.0	.046
April	1.05	31.3	.034
May	1.83	35.5	.052
June	2.47	41.8	.059
July	1.28	17.8	.072
Aug.	4.40	48.6	.091
Sept.	1.79	38.6	.046
Oct.	7.49	123.5	.061
Nov.	6.89	112.4	.061
Dec.	4.80	83.3	.058
Year	43.81	852.7	.051

Moretonhampstead Rectory, Devon.D

REV. S. D. DEWEY, F.R.Met.Soc.

N. and Z's. Hyetograph. 600 ft. above Sea.

1916.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	1.74	52.9	.033
Feb.	8.53	156.7	.054
March	5.25	93.6	.056
April	1.07	21.6	.050
May	1.79	36.2	.049
June	1.58	32.7	.048
July ....	.93	11.3	.082
Aug.	5.65	45.1	.125
Sept.	2.67	33.5	.080
Oct.	7.10	87.9	.081
Nov.	7.81	84.4	.093
Dec.	4.59	68.0	.068
Year	48.71	723.9	.067

Falmouth Observatory, Cornwall.

METEOROLOGICAL OFFICE.

Beckley Guage. 169 ft. above Sea.

	in.	hours.	in.
Jan.	2.17	(93.4)	.023
Feb.	7.63	(194.3)	.039
March	5.23	101.5	.052
April	1.40	57.4	.024
May	1.27	62.3	.020
June	1.99	58.8	.034
July	1.27	26.7	.048
Aug.	3.16	47.5	.066
Sept.	1.72	34.8	.049
Oct.	6.87	105.2	.065
Nov.	8.44	125.9	.067
Dec.	6.27	119.4	.052
Year	47.42	1027.2	.046

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.	2.56	106.2	.024
Feb.	5.64	149.2	.038
March	4.44	161.4	.027
April	1.39	53.9	.026
May	3.01	91.2	.033
June	3.16	59.1	.053
July	1.95	45.0	.043
Aug.	3.86	64.7	.060
Sept.	1.34	31.8	.042
Oct.	6.83	142.9	.048
Nov.	3.01	79.6	.038
Dec.	4.70	84.8	.055
Year	41.89	1069.8	.039

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. ....	.93	27.1	.034
Feb.	3.54	116.5	.030
March	2.49	76.7	.033
April	1.35	67.8	.020
May	2.23	62.5	.036
June	1.66	28.8	.058
July	1.70	36.4	.047
Aug.	2.03	43.5	.047
Sept.	1.15	27.4	.042
Oct.	2.88	86.6	.033
Nov.	2.50	56.9	.044
Dec.	2.32	60.0	.039
Year	24.78	690.2	.036

Mayfield House [Ashbourne], Staffs.D

MR GRAHAM C. LAWSON.

Casella's Recorder. 374 ft. above Sea.

	in.	hours.	in.
Jan.	1.80	49.7	.036
Feb.	4.49	129.1	.035
March	3.58	125.9	.028
April	3.11	83.9	.037
May	2.16	44.1	.049
June	2.30	33.9	.068
July	2.23	40.3	.055
Aug.	2.30	38.7	.059
Sept.	1.58	43.3	.036
Oct.	4.29	95.7	.045
Nov.	3.37	78.1	.043
Dec.	3.43	85.9	.040
Year	34.64	848.6	.041

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

1916.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	1.42	28.7	.050
Feb.	4.64	110.7	.042
March	3.40	122.3	.028
April	1.17	25.8	.045
May	2.72	53.9	.051
June	2.16	36.8	.059
July	2.00	36.6	.055
Aug.	2.58	32.0	.081
Sept.	1.41	27.6	.051
Oct.	3.69	72.8	.051
Nov.	3.88	49.4	.079
Dec.	2.43	51.3	.047
Year	31.50	647.9	.049

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

1916.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	1.12	19.3	.058
Feb.	4.07	85.2	.048
March	3.27	83.8	.039
April	1.30	25.2	.052
May	2.75	32.8	.084
June	1.46	20.0	.073
July	2.13	24.0	.089
Aug.	2.49	24.5	.102
Sept.	1.07	14.0	.076
Oct.	2.16	39.5	.055
Nov.	2.50	51.7	.048
Dec.	2.23	41.8	.053
Year	26.55	461.8	.057

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

	in.	hours.	in.
Jan. ....	.44	9.8	.045
Feb.	3.65	79.6	.046
March	3.89	112.1	.035
April	1.11	21.5	.052
May	2.48	43.2	.057
June	1.83	23.3	.079
July	1.26	23.5	.054
Aug.	1.43	24.9	.058
Sept.	1.33	27.4	.049
Oct.	1.72	39.3	.044
Nov.	3.16	49.3	.064
Dec.	2.16	53.3	.041
Year	24.46	507.2	.048

Bidston Observatory, Cheshire.
 MERSEY DOCKS AND HARBOUR BOARD.
 Osler's Guage. 256 ft. above Sea.

	in.	hours.	in.
Jan.	1.35	35.0	.039
Feb.	3.06	78.3	.039
March	1.67	63.7	.026
April	1.44	53.3	.027
May	2.77	92.1	.030
June	1.94	41.9	.046
July	1.18	34.7	.034
Aug.	1.90	38.3	.050
Sept.	2.35	52.4	.045
Oct.	3.38	90.0	.038
Nov.	2.17	68.5	.032
Dec.	1.66	50.7	.033
Year	24.87	698.9	.036

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

	in.	hours.	in.
Jan.	1.50	39.3	.038
Feb.	2.77	70.0	.040
March	1.85	63.5	.029
April	1.90	59.0	.032
May	2.29	71.2	.032
June	1.91	42.3	.045
July	1.03	22.2	.046
Aug.	3.12	32.8	.095
Sept.	2.51	41.2	.061
Oct.	4.87	85.8	.057
Nov.	2.65	56.0	.047
Dec.	1.91	67.5	.028
Year	28.31	650.8	.044

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

	in.	hours.	in.
Jan.	3.70	82.5	.045
Feb.	4.77	114.0	.042
March	1.92	70.5	.027
April	4.29	101.5	.042
May	2.56	63.5	.040
June	3.77	57.8	.065
July	2.78	61.0	.046
Aug.	3.28	47.0	.070
Sept.	3.85	92.0	.042
Oct.	8.15	162.0	.050
Nov.	2.90	104.5	.028
Dec.	2.89	90.5	.032
Year	44.86	1046.8	.043

Worden Hall, Leyland, Lancashire. *Hesketh Park, Southport, Lancashire.D*
 MR. H. NOWELL FFARINGTON, F.R.Met.Soc. MR. J. BAXENDELL, F.R.Met.Soc.
 N. and Z's. Hyetograph. 125 ft. above Sea. N. and Z's. Fernley gauge. 39 ft. above Sea.

1916.	Rainfall.	Duration.	Rate per hour.	1916.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.		in.	hours.	in.
Jan.	2.13	46.4	.046	Jan.	1.31	40.7	.032
Feb.	3.12	80.4	.039	Feb.	2.97	75.8	.039
March	1.71	61.6	.028	March	2.09	72.1	.029
April	3.25	71.4	.045	April	2.37	63.2	.037
May	2.12	67.0	.032	May	2.45	81.0	.030
June	2.93	49.0	.060	June	2.10	42.9	.049
July	4.03	55.0	.073	July	1.05	37.5	.028
Aug.	4.47	48.4	.092	Aug.	3.56	31.9	.112
Sept.	2.66	47.0	.057	Sept.	2.56	45.3	.057
Oct.	6.79	113.1	.060	Oct.	5.81	94.9	.061
Nov.	2.39	59.3	.040	Nov.	2.63	62.4	.042
Dec.	2.76	58.6	.047	Dec.	2.52	58.1	.043
Year	38.36	757.2	.051	Year	31.42	705.8	.044

*Greg Observatory, Lancaster, Lancs.D** *Huddersfield Cemetery, Yorkshire.*
 MR. NEVILLE HOLDEN, per M.O. MR. J. FIRTH.
 Beckley Gauge. 312 feet above sea. Halliwell Recorder. 410 ft. above Sea.

	in.	hours.	in.		in.	hours.	in.
Jan.	3.67	109.7	.033	Jan.	3.56	82.5	.043
Feb.	3.62	66.5	.054	Feb.	6.19	148.0	.042
March	1.67	45.8	.037	March	4.59	160.5	.028
April	2.72	52.2	.052	April	2.15	67.0	.032
May	3.81	55.2	.069	May	2.73	66.5	.041
June	2.45	35.5	.069	June	2.05	42.9	.048
July	2.78	37.4	.074	July	1.91	37.1	.051
Aug.	4.52	33.0	.137	Aug.	1.99	32.0	.062
Sept.	3.09	43.5	.071	Sept.	1.29	35.8	.036
Oct.	7.72	135.0	.057	Oct.	6.66	117.2	.057
Nov.	4.22	95.5	.044	Nov.	3.64	95.0	.038
Dec.	3.49	98.8	.035	Dec.	3.03	85.5	.035
Year	43.76	808.1	.054	Year	39.79	970.0	.041

Lower Laithe Res., Haworth, Yorks.D *Town Hall, Skipton, Yorkshire.D*
 MR. M. R. BARNETT, M.Inst.C.E. MR. A. E. W. ALDRIDGE.
 N. and Z's. Hyetograph. 772 ft. above Sea. N. and Z's. Hyetograph. 367 ft. above Sea.

	in.	hours.	in.		in.	hours.	in.
Jan.	5.44	151.6	.036	Jan.	2.94	70.8	.042
Feb.	6.21	177.4	.035	Feb.	4.49	101.0	.044
March	4.19	117.2	.036	March	3.08	78.0	.039
April	3.76	90.4	.042	April	1.83	50.7	.036
May	2.81	72.3	.039	May	2.01	52.8	.038
June	2.87	53.0	.054	June	2.11	49.0	.043
July	3.48	61.5	.057	July	2.23	51.0	.044
Aug.	3.13	41.0	.076	Aug.	3.95	44.7	.088
Sept.	2.64	48.1	.055	Sept.	2.49	42.0	.059
Oct.	10.93	184.1	.059	Oct.	8.15	121.0	.067
Nov.	5.06	96.4	.052	Nov.	3.34	65.5	.051
Dec.	4.27	104.0	.041	Dec.	2.71	60.8	.045
Year	54.79	1197.0	.046	Year	39.33	787.3	.050

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

1916.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	·42	16·3	·026
Feb.	2·96	80·1	·037
March	2·75	112·4	·024
April	1·10	44·7	·025
May	2·33	54·2	·043
June	2·61	57·5	·045
July	2·43	47·7	·051
Aug.	2·01	32·2	·062
Sept.	2·36	33·7	·070
Oct.	3·44	82·1	·042
Nov.	2·82	68·0	·041
Dec.	2·02	59·7	·034
Year	27·25	688·6	·040

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

1916.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	·42	15·1	·028
Feb.	2·96	75·2	·039
March	2·75	110·9	·025
April	1·10	42·6	·026
May	2·33	52·4	·044
June	2·61	56·6	·046
July	2·43	47·4	·051
Aug.	2·01	33·5	·060
Sept.	2·36	38·1	·062
Oct.	3·44	86·3	·040
Nov.	2·82	71·2	·040
Dec.	2·02	62·3	·032
Year	27·25	691·6	·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.	·42	12·5	·034
Feb.	2·96	71·4	·041
March	2·75	86·5	·032
April	1·10	41·3	·027
May	2·33	52·1	·045
June	2·61	54·0	·048
July	2·43	47·4	·051
Aug.	2·01	33·9	·059
Sept.	2·36	35·7	·066
Oct.	3·44	85·4	·040
Nov.	2·82	69·4	·041
Dec.	2·02	50·3	·040
Year	27·25	639·9	·043

*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.	·42	14·0	·030
Feb.	2·96	72·0	·041
March	2·75	83·2	·033
April	1·10	39·4	·028
May	2·33	49·7	·047
June	2·61	54·7	·048
July	2·43	47·8	·051
Aug.	2·01	30·1	·067
Sept.	2·36	31·8	·074
Oct.	3·44	81·1	·042
Nov.	2·82	71·1	·040
Dec.	2·02	56·5	·036
Year	27·25	631·4	·043

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

	in.	hours.	in.
Jan.	5·95	161·4	·036
Feb.	9·66	214·4	·045
March	4·08	128·2	·032
April	3·99	93·6	·043
May	3·86	90·4	·043
June	4·35	66·6	·065
July	3·10	35·4	·088
Aug.	5·98	73·0	·082
Sept.	3·45	59·2	·058
Oct.	14·89	208·7	·071
Nov.	7·54	150·0	·050
Dec.	5·18	115·4	·045
Year	72·03	1396·3	·052

*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.	2·73	74·5	·037
Feb.	9·83	169·2	·058
March	9·32	188·4	·050
April	2·42	60·4	·040
May	4·88	61·5	·079
June	2·86	46·5	·062
July	1·92	35·7	·054
Aug.	3·18	55·9	·057
Sept.	3·44	43·3	·079
Oct.	9·21	154·5	·060
Nov.	6·73	110·3	·061
Dec.	3·46	78·9	·044
Year	59·98	1079·1	·056

Eskdalemuir Obsy., Dumfries.

METEOROLOGICAL OFFICE.

Beckley Gauge. 799 ft. above Sea.

1916.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	10·85	(209·4)	·052
Feb.	6·73	134·5	·050
March	2·57	(93·5)	·027
April	5·49	135·9	·040
May	5·60	136·0	·041
June	3·37	56·2	·060
July	6·17	95·0	·065
Aug.	4·52	63·7	·071
Sept.	2·80	52·7	·053
Oct.	10·45	171·7	·061
Nov.	6·46	161·9	·040
Dec.	5·49	140·7	·039
Year	70·50	1451·2	·049

Aberdeen, King's College, Aberdeen.

METEOROLOGICAL OFFICE.

Beckley Gauge. 44 ft. above Sea.

	in.	hours.	in.
Jan.	·94	20·6	·046
Feb.	2·10	53·9	·039
March	2·19	124·0	·018
April	2·58	114·8	·022
May	3·28	97·0	·034
June	4·59	143·0	·032
July	3·13	80·7	·039
Aug.	3·37	58·5	·058
Sept.	1·67	30·4	·055
Oct.	3·65	77·3	·047
Nov.	3·26	61·4	·053
Dec.	4·38	88·1	·050
Year	35·14	949·7	·037

Valencia Observatory, Co. Kerry.

METEOROLOGICAL OFFICE.

Beckley Gauge. 30 ft. above Sea.

	in.	hours.	in.
Jan.	3·72	88·1	·042
Feb.	6·27	108·9	·057
March	1·78	47·7	·037
April	4·52	74·7	·061
May	2·03	(78·0)	·026
June	2·43	51·4	·047
July	1·03	23·1	·045
Aug.	4·55	55·2	·082
Sept.	1·76	36·5	·048
Oct.	10·73	187·3	·057
Nov.	8·98	105·0	·086
Dec.	5·35	76·9	·070
Year	53·15	932·8	·057

Pinewood, Crathes, Kincardineshire.1)

MR. JAMES SMITH.

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

1916.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	1·03	29·5	·035
Feb.	2·38	65·5	·036
March	3·54	94·9	·037
April	2·82	93·6	·030
May	3·39	77·8	·044
June	3·81	94·0	·041
July	4·77	79·0	·060
Aug.	3·60	69·6	·052
Sept.	1·48	35·5	·042
Oct.	5·90	90·4	·065
Nov.	4·83	79·5	·061
Dec.	4·59	71·0	·065
Year	42·14	880·3	·048

*University College, Cork.D**

PROF. ISAAC SWAIN.

N. and Z's. Hyetograph. 66 ft. above Sea.

	in.	hours.	in.
Jan.	2·04	56·8	·036
Feb.	4·30	92·4	·047
March	2·34	47·5	·049
April	3·25	55·6	·058
May	2·91	73·2	·040
June	3·03	40·2	·075
July	2·49	23·5	·106
Aug.	3·76	33·6	·112
Sept.	1·12	14·8	·076
Oct.	9·13	120·5	·076
Nov.	9·04	96·6	·094
Dec.	2·94	55·7	·053
Year	46·35	710·4	·065

Armagh Observatory, Co. Armagh.

METEOROLOGICAL OFFICE.

Beckley Gauge. 210 ft. above Sea.

	in.	hours.	in.
Jan.	2·99	74·6	·040
Feb.	3·39	118·1	·029
March	1·34	76·2	·018
April	3·62	93·4	·039
May	6·18	157·1	·039
June	2·20	59·0	·037
July	1·69	(40·9)	·041
Aug.	3·35	31·1	·108
Sept.	·87	31·9	·027
Oct.	5·43	127·2	·043
Nov.	3·54	85·9	·041
Dec.	2·40	51·5	·047
Year	37·00	946·9	·039

HEAVY RAINS IN SHORT PERIODS IN 1916.

THE list of intense rainfalls in short periods in 1916, which appears on pages [42-43] is the shortest which has appeared in any volume of *British Rainfall* since 1887. We fear that this may be due in some measure to the preoccupation of many Observers who are not able to devote so much attention to their rainfall records as in normal times, on account of the war, but there is little doubt that the year was characterized by an unusual infrequency of thunderstorms, to which most of the intense falls are due, and this fact is borne out by the section on Heavy Rains on Rainfall Days.

The instances quoted are all those which exceed the limits of intensity defined by the lowest of the three curves in the diagram on page [41]. These limits, and those of the two higher curves, are set out also in Table I. and full particulars of the methods by which they were arrived at were given in *British Rainfall, 1908*, page 73. In the general table a cross is attached to any entry which exceeds the lower limit of "remarkable" falls, and two crosses are attached in the case of "very rare" falls.

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

The "very rare" rainfalls form a class by themselves, and Table II. brings together all those which are known to have occurred in one hour

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	3·16
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*.

or less in the British Isles since 1868, when the collection of such records was begun. Such rains have been recorded on the average about once

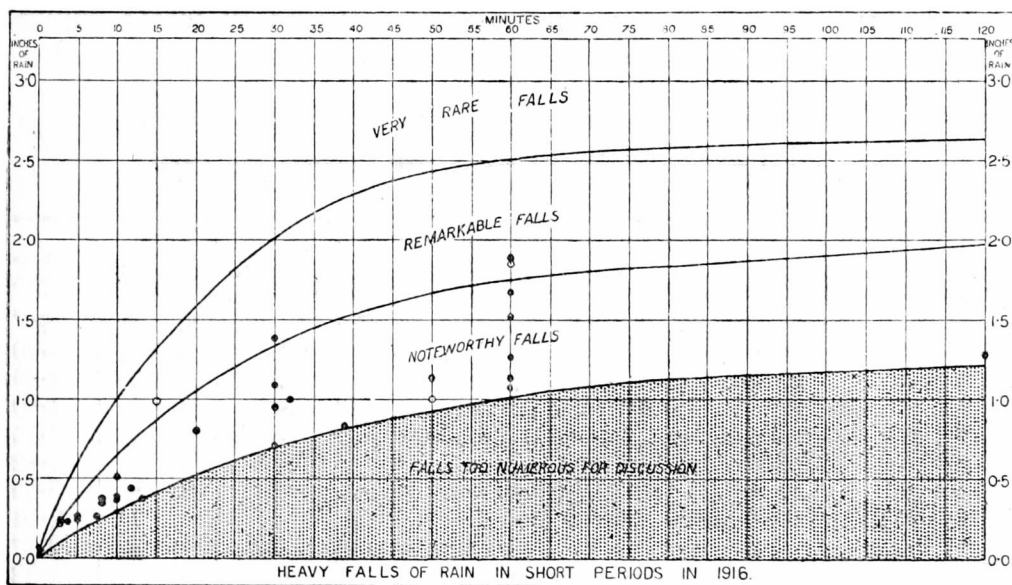
in each year, though as a matter of fact only 24 out of the 49 years find a place in the list. The list has not been added to in 1916.

A rough idea of the comparative frequency of intense rainfalls may be gathered from the comparison of the number of heavy falls of two hours' duration or less in 1916, with the average of similar data for the previous 48 years. In spite of the greatly increased number of Observers during recent years the 1916 records only just reached the average values. When allowance is made for the number of records available the year is found to have had as small a number as any during the preceeding 30 years.

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.				
{ 1868-1915. }	15.5	7.4	4.2	2.0	29.1	2.2	1.1	32.4	1.0
1916.	14	5	6	4	29	1	2	32	0.6

The records for 1916 of falls of two hours or less are shown in the following diagram. Although none of these exceeded the lower limit of



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

“very rare” falls, two intense rains of duration longer than those indicated in the diagram certainly merit the double cross. These were the falls of 3.51 in. in 2 hours 30 minutes at Goff’s Oak, near Cheshunt, Hertfordshire, on August 17th, and 2.91 in. in 2 hours 10 minutes at Hacketstown, Co. Carlow, on July 24th. Full particulars of these storms

TABLE III.—*Heavy Rains in Short Periods in 1916—(continued).*

Date.	Div.	Station.	Amount.	Duration.		Rate per hour.
			in.	hr.	min.	in.
Aug. 27	II.	Bicknor Rectory	·72	0	30	1·44
July 21	X.	Kendal, Birchfield	1·00	0	32	1·87
Aug. 18	IX.	Meltham, Harewood Lodge	·83	0	39	1·28
May 30	I.	Lewisham, Clarendon Road	1·12	0	50	1·34
June 24	III.	Oving House	1·00	0	50?	1·20?
" "	X.	Humshaugh, Wester Hall	1·88	1	0	1·88x
May 28	IV.	Great Moulton Rectory	1·85	1	0	1·85?x
Aug. 21	XXI.	Straffan House	1·67	1	0	1·67
July 23	XIII.	Talla Reservoir	1·52	1	0	1·52
Apr. 27	IV.	Thetford	1·26	1	0	1·26
May 30	II.	Bromley, Lansdown Road	1·12	1	0	1·12
July 5	IV.	Tilbury, Park View Observatory	1·07	1	0	1·07
Aug. 17	III.	Wareside	1·27	2	0	·63
July 24	XXI.	Hacketstown Rectory	2·91	2	10	1·34xx
Aug. 17	III.	Eye	2·05	2	15	·91
" 17	III.	Cheshunt, Goff's Oak House	3·51	2	30	1·40xx
July 22	XVI.	Ballintuim House	2·00	2	30	·80
Aug 29-30	IV.	Ipswich, Copdock	1·97	3	0	·66
July 24	XXIII.	Convoy	1·95	3	0	·65
" 24	XXI.	Hacketstown Rectory	3·01	4	0	·75x

HEAVY FALLS ON RAINFALL DAYS IN 1916.

For the purpose of this discussion every record of daily rainfall which has been received has been examined, the total number of records being 4,402. In the great majority of cases the records show that the wettest day of the year had so small a rainfall that no special interest attaches to it. Experience has shown that a daily rainfall of 2·50 in. or more is sufficiently uncommon to be worthy of special record and accordingly every instance of such a maximum fall in 1916 has been extracted and appears in the following Chronicle. In some parts of the country, however, falls of this magnitude are so rare that many remarkable instances of very wet days would pass unnoticed if nothing smaller were to be recorded, hence we have also extracted from the daily records the rainfall of the wettest day in the year when that reached 7·5 per cent, of the total rainfall of the year, thus according to the total rainfall, maximum falls as low as 1·50 in. for a station with a fall for the year of 20·00 in. appear in the Chronicle. Thus no day the rainfall of which was exceptional for the locality has been omitted. In the case of wide-spread storms a short description compiled from Observers' notes, meteorological statistics and newspaper descriptions has been added, and the most interesting instances are illustrated by maps, in compiling which the records of perhaps 1,000 stations have been employed. In order to save space the number of these maps on the present occasion has been reduced to a minimum, but those which appear are the more interesting on that account.

With regard to falls of 2·50 in. or more on one day, in addition to the instances specified in the Chronicle, there were 84 cases at 46 stations of other falls greater than that amount, and one station, Kinlochleven, in the west of Scotland, had no less than 7 days in the year with more than 2·50 in. each, while Pen-y-Gwryd, in the north-west of Wales, had 6 such days.

Number of stations with two or more falls of 2·50 in. or more in 1916.

County.	Number of Stations.	Number of Falls.	Station with largest number.	
Yorks, West Riding	1	2	Kingsdale Head	2
Cumberland	2	7	Seathwaite	5
Westmorland	1	5	Dungeon Ghyll	5
Glamorgan	3	8	Tyn-y-waun	4
Brecon	1	4	Bwlch	4
Merioneth	2	7	Llechwydd Quarries	4
Carnarvon	6	18	Pen-y-Gwryd	6
Argyll	6	15	Several	3
Forfar	2	4	{ Pearsie	2
			{ Buddonness	2
Inverness	6	21	Kinlochleven	7
Ross	5	14	Achnacarry	4
Cork	3	6	Several	2
Kerry	7	17	„	3
Mayo	1	2	Aasleagh House	2
Total	46	130	Kinlochleven	7

In *British Rainfall, 1910*, pp. 29-36, we published a list of the largest maximum daily falls recorded for each county in the British Isles, and when the maximum exceeded 4 inches, every instance of falls greater than 4 inches was given, except at a few Lake District stations, where the limit was taken at 5 inches. This list has been kept up to date by additions published from year to year, and 1916 has made changes necessary in eleven counties comprising the 25 entries which follow :—

Div.	County.		Station.	Date.	Rainfall.
V.	Wiltshire	.. substitute	Donhead St. Mary	.. Aug. 29th, 1916..	4·38
..	Devon	.... add	Torquay, Kilmorie	.. Aug. 29th, 1916..	4·25
X.	WESTMORLAND	..	Dungeon Ghyll	..... Dec. 28th, 1916..	5·10
XI.	CARNARVON	..	Llyn Llydaw, Copper Mill	Oct. 5th, 1916..	5·60
..	..	..	.. .. Intake	.. Oct. 5th, 1916..	5·18
..	..	..	Pen-y-gwryd	..... Oct. 5th, 1916..	4·08
XV.	Stirling	.... substitute	Glen Dhu	..... Dec. 20th, 1916..	4·45
..	ARGYLL	.... add	Glen Etive	..... Oct. 11th, 1916..	4·55
..	Fife	..... insert	Kirkcaldy	..... July 7th, 1916..	3·60
XVIII.	INVERNESS	.. add	Kinlochquoich	..... Oct. 11th, 1916..	8·20
..	..	..	Glenquoich	..... Oct. 11th, 1916..	5·82
..	..	..	Glen Dessary	..... Oct. 13th, 1916..	4·95
..	..	..	Achnasheen, Ledgowan	Oct. 11th, 1916..	4·60
..	..	..	Inchlaggan	..... Oct. 14th, 1916..	4·50
..	..	..	Fort William	..... Oct. 11th, 1916..	4·50
..	..	..	Achnacarry	..... Oct. 14th, 1916..	4·39
..	..	..	Glencarron	..... Oct. 11th, 1916..	4·37
..	..	..	Kinlochmore	..... Oct. 11th, 1916..	4·20
XX.	Cork	..... substitute	Dummanway	..... Nov. 16th, 1916..	3·64
..	Kerry	..... add	Killarney, Asylum	.. Oct. 21st, 1916..	5·35
..	..	..	Killarney, Flesk Mills	Oct. 21st, 1916..	5·02
..	..	..	Kenmare, Dromquinna	Nov. 16th, 1916..	4·30
..	..	..	Kenmare, Derreen	.. Aug. 22nd, 1916..	4·16
..	..	..	Kenmare, Dromore	.. Oct. 21st, 1916..	4·07
XXII.	Mayo	..... substitute	Aasleagh House	.... Nov. 16th, 1916..	3·47

The above additions include the largest daily rainfall hitherto recorded in the British Isles, the fall of 8·20 in., at Kinlochquoich, on 11th October, which displaces the former highest figure of 8·03 in., at Seathwaite.

Part I.—The Chronicle.

A remarkable feature of the year is that there were no widespread heavy rains in the first six months, and in that period only sixteen entries of sufficient magnitude to quote were recorded.

January 1st.

The heavy fall at Alston marks a local downpour in the north-west of England which produced a “new year’s flood” in the neighbourhood of Carlisle.

X.	Alston (Nenthead)	2·62 in. or 3·2 per cent.
XV.	Glen Aray (Ladyfield)	3·20 „ 3·0 „

January 24th.

XVIII.	Invergarry Gardens	2·80 in. or 3·3 per cent.
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February 3rd.

V.	Princetown (H.M. Prison)	2·76 in. or 3·1 per cent.
XI.	Treherbert (Tyn-y-waun)	2·91 „ 3·0 „
„	Llanddeusant (Ponterynfe)	2·54 „ 4·3 „
„	Trecastle (Blaenau Hydfer)	3·70 „ 4·9 „
XIV.	Leadhills	2·53 „ 3·2 „
„	New Cumnock (Power Station)	2·56 „ 3·4 „

February 28th.

II.	Dorking (Denbies)	2·66 in. or 6·1 per cent.
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March 27th.

Widespread snowstorms which were very severe in the midland counties. (See special article in Part I. of this volume).

III.	Stony Stratford (Calverton Limes)	2·22 in. or 7·5 per cent.
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April 17th.

XI.	Lake Eigion (Dam Site)	2·67 in. or 3·0 per cent.
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May 5th.

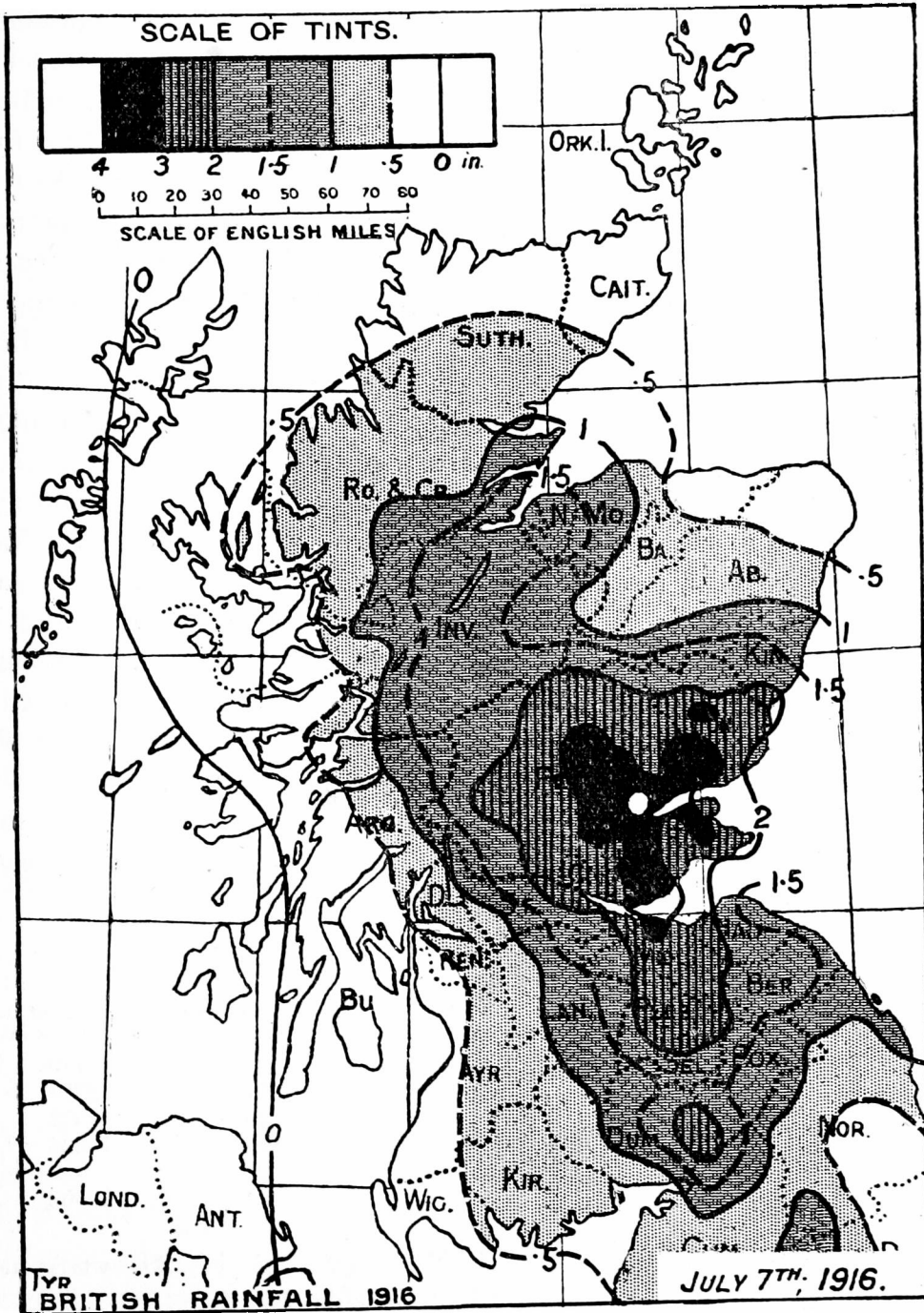
XXI.	Greystones (Coolagad)	2·61 in. or 5·6 per cent.
„	Bray (Fassaroe)	2·61 „ 5·2
„	Shankhill	2·51 „ ..

May 31st.

X.	Borrowdale (Seathwaite)	4·50 in. or 3·2 per cent.
XV.	Mull (Lochbuie Castle)	2·83 „ 3·1 „

July 7th and 8th.

July 7th was perhaps the wettest day ever recorded for the east of Scotland. It was the wettest day of the year at more than 140 of the

RAINFALL. JULY 7TH, 1916.

Scottish stations and no less than 74 instances of falls exceeding 2·50 inches are quoted in the following list, the largest figure being 3·80 in., at Craig Mills, Murroes, Forfarshire.

The rain, which culminated on the 7th, commenced on the rainfall day of the 6th and continued so far as can be ascertained as an unbroken fall far into the 8th. It should thus be discussed as a whole and represented in a rainfall map showing the accumulated fall of the three days, and we much regret that the difficulties under which the present volume is being prepared have made it impossible to deal with the phenomenon thus fully. In the wettest region around Perth the continuous fall during the three days amounted to more than 5·50 in., and much damage to property was caused by the resulting floods. We reproduce on p. 47 a map of Scotland showing the distribution of rain on July 7th, from which it appears that the west of the Outer Hebrides and the southern half of the Inner Hebrides were rainless on that day. The west coast of Scotland south of Skye, the extreme north of Scotland, and the north-east of the counties of Banff and Aberdeen, had less than half an inch of rain. More than one inch fell from the Tweed to the Dornoch Firth in one direction, and from the east coast to the borders of Ayrshire and Argyll in another. More than 2 inches spread north from Selkirkshire in an area which gradually widened until it stopped in the north of Perthshire and Forfarshire. A similarly shaped area with more than 3 inches stretched from Edinburgh far into Perthshire and Forfarshire, and on the strength of a record which was incomplete and therefore could not appear in the table, a spot with just over 4 inches has been placed on the map near Perth.

The following is a summary of the areas measured on a large scale map with the corresponding volumes of precipitation where it exceeded 1 inch :

Rainfall of July, 7th, 1916.

	Area, sq. miles	General Rainfall, inches.	Volume of Rain, sq. miles x inches.
More than 4 inches	29	4·10	119
3—4 inches	818	3·33	2724
2—3 inches.....	3656	2·43	8872
1—2 inches.....	11226	1·50	16894
Total	15729		28609

This represents a general rainfall of 1·82 in. over the 15,729 square miles which had a rainfall greater than 1 inch on this day.

The relation of the portion of the country affected by this remarkable downpour to the movement of the meteorological disturbance producing it is of more than usual interest, and a special small scale map is given on p. [50] showing the track of the depression on the 7th and in a general way the distribution of rainfall over the British Isles. It will be observed that the rainless area of the Hebrides continued throughout Ireland except for two points on the coast, and that no rain fell in parts of the west of Wales and England or along the south coast. Rainfall exceeding one inch which is shaded on the sketch map was confined to Scotland and a tract along the Pennine range, all lying well to the left of the track of the depression. As the rain represented on this map was measured at 9 a.m. on the 8th, when the centre of the depression was probably off the Tweed, it is clear that for the most part it must have fallen in advance of the depression. The fact that no heavy rain fell in England to the right of the depression is worthy of note and important, as the track of a depression producing heavy rain on its left rarely leaves a sufficient land area on its right to allow the absence of heavy rain to be demonstrated in that quarter. A second sketch map shows the continuation of the track for part of the rainfall day of July 8th, and indicates the fact that more than an inch of rain fell on that day across Forfarshire and Perthshire, while there was no rain north of the middle of Ross-shire or in the greater part of the north of England. Although the rainfall on the 8th reached 2 inches at only one spot on the south of the Firth of Tay, the following table shows that the volume of rain falling on that day was by no means insignificant.

Rainfall of July 8th.

	Area, sq. miles	General Rainfall, inches.	Volume of Rain, sq. miles x inches.
More than 2 inches	11	2.09	23
1—2 inches	2383	1.27	3029
Total	2394		3052

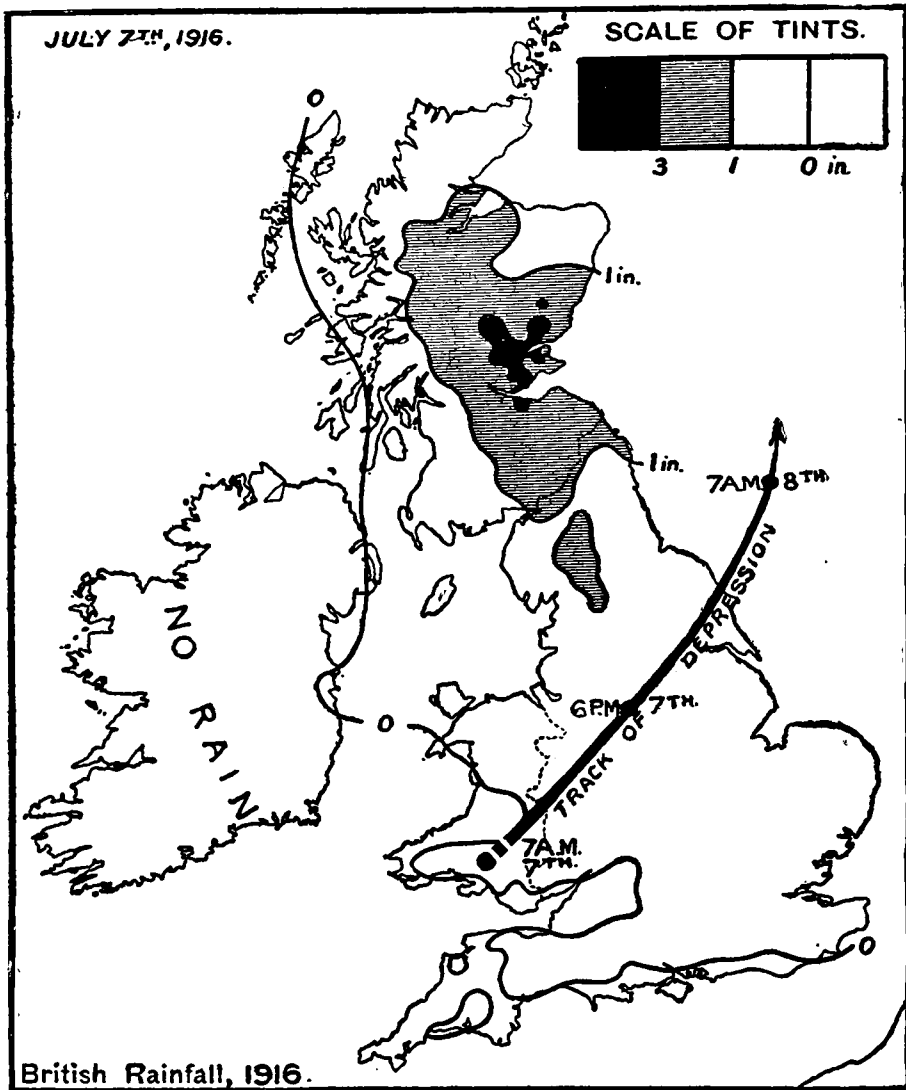
This shows a general rainfall of 1.27 in. for the areas on which more than 1 inch fell.

Mr. J. Fairgrieve, who plotted the original maps, has kindly made the following notes on the time at which the rain fell, mainly derived from the *Daily Weather Report* :—

“During the rain day of the 6th the cyclone moved from somewhere south-west of Ireland to about Pembroke. At 7 a.m. rain was falling in the

south-west of Ireland, of Wales, and of England. At 6 p.m. there was an area of rain in front of the cyclone which covered the central area of the British Isles. At 7 a.m. on the 7th a belt about 100 miles wide, in which rain was falling, stretched from the north-west of Scotland to Sussex and

RAINFALL AND TRACK OF DEPRESSION. JULY 7TH, 1916.

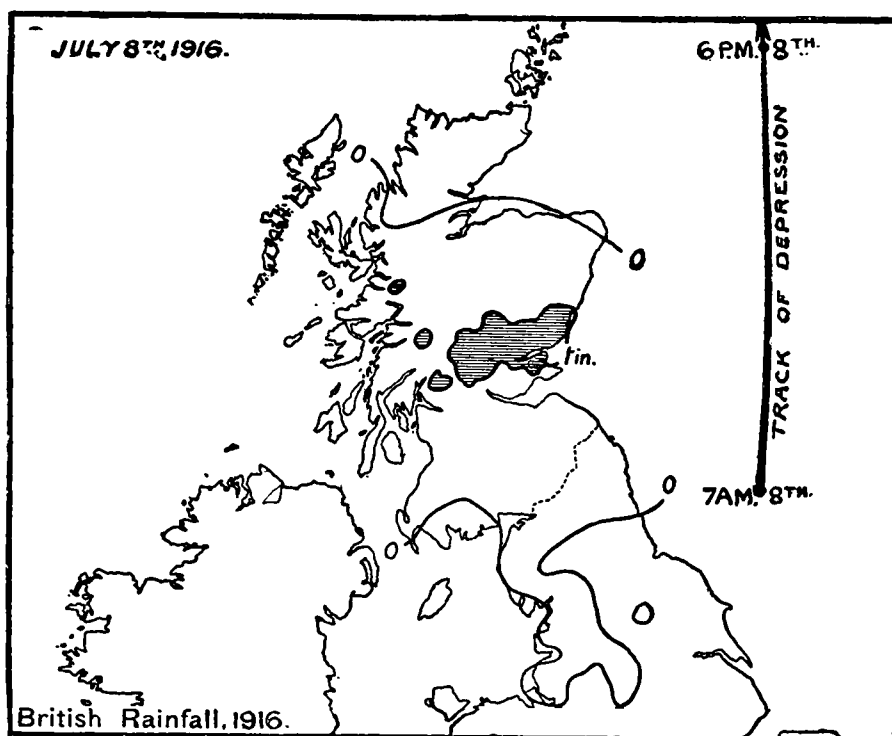


Kent, and thence south-west to Corunna. There was also rain on the north-west of the cyclone, from Donaghadee to Birr Castle (falling on the rainfall day of the 6th).

During the rain day of the 7th the centre of the cyclone moved from somewhere near Pembroke to somewhere off the coast of Northumberland.

As has been said the map for 7 a.m. shows a belt of rain along the axis of Great Britain. This belt probably moved eastward and was succeeded in the afternoon by thunderstorms in the south-eastern counties, south of the track of the cyclone. The map for 6 p.m. (on the 7th), shows rain to have

RAINFALL AND TRACK OF DEPRESSION, JULY 8TH, 1916.



withdrawn northwards and to be only to the north or north-west of the cyclone on an area practically confined to Scotland but stretching along the west of England to about Liverpool. The map for 7 a.m. on the 8th again shows rain only to the north of the cyclone, and again it has moved further north, leaving southern Scotland dry. The rain over the south and south-east of England is probably partly due to the belt of rain in front of the cyclone in the forenoon of the 7th, but in greater part to thunderstorm rain in the afternoon.

Conclusion.—It seems fairly evident that the heavy falls in Scotland on the rain days of the 7th and 8th are related in some way to the passage of warm and damp southerly, south-easterly or even (in the later stages) easterly winds over cold easterly, north-easterly or northerly winds, while the rain in England is related to the passage of westerly winds under southerly winds in front of the storm and to thunderstorms following.”

July 7th.

XIII.	Innerleithen (Glen)	2.64 in. or 4.9 per cent.	
"	Eddlestone (Portmore Reservoir)	2.82 "	6.0 "
"	Pentland Hills (Loganlea)	2.90 "	4.8 "
"	" " (Glencorse Filters)	2.50 "	4.6 "
"	Bush (Milton Bridge)	2.69 "	5.2 "
"	Newbattle (Public School)	2.50 "	6.0 "
"	Dalkeith Gardens	2.72 "	6.7 "
"	Pentland Hills (Clubbiedean Res.)	2.70 "	6.2 "
"	" " (Swanston)	2.63 "	6.1 "
"	" " (Fairmilehead)	2.65 "	5.5 "
"	" " (Firhill Tank)	2.80 "	6.2 "
"	Colinton (Northfield)	2.85 "	..
"	Liberton (Alnwick Hill)	2.53 "	5.7 "
"	" (College Garden)	2.95 "	7.0 "
"	" (The Inch)	2.89 "	6.7 "
"	Edinburgh (Royal Observatory)	2.68 "	6.9 "
"	" (The Academy)	2.84 "	7.6 "
"	" (Univ. Engin. Lab.)	3.08 "	7.5 "
"	" (St. Roque)	2.62 "	6.1 "
"	" (City Observatory)	3.17 "	8.5 "
"	Leith (Starbank Park)	2.70 "	7.2 "
"	Davidson's Mains (Broomfield)	3.17 "	8.4 "
XVI.	Dollar (Wellhall, Dollarbeg)	2.63 "	5.1 "
"	Blairingone Manse [Dollar]	2.63 "	5.0 "
"	Loch Leven Sluice	2.96 "	6.1 "
"	Milnathort (Ledlanet)	2.51 "	4.0 "
"	Rosyth (H.M. Dockyard)	2.96 "	8.5 "
"	Kincardine (Tulliallan)	2.55 "	6.0 "
"	Dunfermline (Victoria Place)	3.03 "	6.2 "
"	" (Fordell House)	2.75 "	6.2 "
"	Kirkcaldy (St. Peter's Rectory)	3.31 "	8.7 "
"	" (Muttonhall Farm)	3.60 "	8.8 "
"	Cowdenbeath (Northbank)	3.59 "	6.3 "
"	Cleish Hills (Deanhead Farm)	2.65 "	6.0 "
"	Largo (Carlton)	2.50 "	5.9 "
"	Colinsburgh (Lathallan)	2.80 "	6.9 "
"	Carnbee (Ovenstone W.W.)	2.57 "	7.4 "
"	Ceres (St. Helens)	2.51 "	5.5 "
"	Cupar (Rankeillour)	2.50 "	6.0 "
"	Cameron (Water Works)	3.54 "	8.1 "
"	St. Andrews (Water Works)	2.56 "	6.6 "
"	" (Queens Gardens)	2.76 "	7.3 "
"	"	2.64 "	7.0 "
"	Newport (Tayfield)	2.97 "	7.4 "
"	Inchkeith	3.30 "	10.9 "
"	Glendevon (Glenquey Res.)	3.00 "	4.4 "
"	" (Tormaukin)	2.74 "	3.6 "
"	Bridge of Earn (Ballendrick)	3.64 "	8.5 "
"	Perth (Craigie Road)	3.14 "	7.3 "
"	" (Wellshill Cemetery)	3.42 "	7.2 "
"	Dunkeld (Snaigow)	2.96 "	6.5 "
"	" (Inver)	3.58 "	7.1 "
"	Aberfeldy (Dall Avon)	2.72 "	5.6 "
"	" (Dunros)	2.85 "	6.2 "
"	Pitlochrie (Bonskeid)	2.90 "	6.6 "

XVI.	Fincastle House	2.65 in. or 5.3 per cent.
	Blair Atholl	2.60 „ 5.9 „
	„ Coupar Angus	2.67 „ 6.5 „
	„ Blairgowrie (Kinloch Manse)	2.63 „ 6.6 „
	„ Kettins Schoel	2.90 „ 6.7 „
	„ Glamis Castle	2.89 „ 6.8 „
	„ Dundee (Harbour)	3.35 „ 8.4 „
	„ „ (Eastern Necropolis)	3.36 „ 8.3 „
	„ „ (Camperdown Works)	3.59 „ 8.4 „
	„ „ (Balruddery)	2.96 „ 7.1 „
	„ „ (Kirkton of Mains)	3.60 „ 8.6 „
	„ Murroes (Craig Mills)	3.80 „ 8.6 „
	„ Craigton	3.41 „ 7.4 „
	„ Forfar W.W. (Den of Ogil)	3.44 „ 6.7 „
	„ Glen Prosen (Pearsie House)	2.96 „ 6.2 „
	„ Montrose (Kinnabar W.W.)	2.80 „ 7.8 „
XVII.	Fettercairn (The Burn)	3.03 „ 6.7 „
	„ „ (Police Station)	2.87 „ 6.3 „
	„ „ (Fasque Gardens)	2.76 „ 5.9 „
	„ Cawdor Castle	2.53 „ 5.5 „

July 24th.

A violent but very local thunderstorm in Ireland.*

XXI.	Hacketstown Rectory	3.01 in. or 6.4 per cent.
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July 26th.

A violent rainstorm over a very small area, of the type to which the name of cloud-burst is frequently applied, occurred near the little lake known as Llyn-y-Fan fach in Carmarthenshire. We cannot quote definite figures as they have not been supplied by the Rural District authorities who are responsible for the rain gauges, but the rainfall as measured did not appreciably exceed 2.50 in. The interest of the occurrence lies in the fact that it took place while works were being carried on to obtain a water supply, under the direction of Mr. H. J. Rofo, C.E., who has supplied the following description from notes made by Mr. D. A. Howell, the resident engineer.

“The tarn in question, about one quarter of a mile long, lies at the northern base of a great precipice of old red sandstone cliffs, which also surround a somewhat larger tarn two miles to the east. A stream called the Sawdde flows from the tarn and on it half a mile down the valley the intake works are situated, just below the confluence of a little stream, the Sychlweh, which flows from the screes at the base of the great cliff between the two tarns. The rain gauges are situated on the Sawdde, one just above,

* See *Meteorological Magazine*, August, 1916. Vol. 51, p. 106.

the other half a mile below, the junction of the Sychlwch. Rain began to fall gently about 1 p.m. and became very heavy about 2 p.m., when a terrific thunderstorm broke. The flow of the stream from the lake, and that of another stream, which flowed into it about a mile further down was not greatly increased, but a tremendous flood came down the Sychlwch raising the level of the main stream 4 feet in fifteen minutes when the mechanism for registering the water level ceased to act. The whole of the intake works were soon covered by the flood and thousands of tons of boulders and debris were brought down. At 2.45 the storm was over. The centre of the storm was probably on the summit of the cliff between the two tarns and the rainfall there must have been greatly in excess of the 2.50 in, measured by the gauges on the margin of the storm area. On the slopes and summit of the cliffs huge masses of red sandstone and peat had been torn out to a depth of several feet, the latter revealing the clay and red sandstone underneath. The flood water which entered the valley from the storm centre caused great destruction for a long distance, cutting a new channel for the stream to a depth of ten feet in some places, excavating the recently laid pipe line and piling mounds of boulders and sand to a height of ten feet or more on some parts of the valley floor. At the height of the storm the crashing of the huge boulders down the valley and the lashing of the rain created an uproar which completely drowned the noise of the thunder."

August 15th.

VIII.	Heysham House	3.33 in. or 7.5 per cent.
„	Morecambe	3.69 „ 9.8 „

August 17th.

A violent thunder rain.*

III.	Ponders End (Bylock Hall)	2.62 in. or 7.7 per cent.
„	Cheshunt (Goff's Oak House)	3.51 „ 10.1 „
„	Eye (Northolm)	2.15 „ 7.6 „

August 22nd.

XX.	Kenmare (Dereen)	4.16 in. or 5.5 per cent.
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August 23rd.

XX.	Ballina [Killaloe]	2.67 in. or 5.2 per cent.
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* See *Meteorological Magazine*, September, 1916, Vol. 51, p. 119.

August 25th.

V.	Exmouth (Douglas Avenue)	2.50 in. or 6.9 per cent.	
XIV.	Strathaven (Kype Reservoir)	2.50 „ 4.8 „	
„	Dalry (Blair Gardens)	2.63 „ 4.7 „	
XV.	Dunoon (Reservoir)	2.58 „ 3.0 „	
XVI.	Buddonness (Low Light)	2.64 „ 6.6 „	
„	Glen Prosen (Lednathie)	2.50 „ 4.8 „	

August 27th.

V.	Tisbury (The Academy)	2.69 in. or 5.1 per cent.	
„	East Knoyle (Slades)	2.73 „ 5.5 „	
„	Fonthill House Gardens	2.66 „ 5.3 „	
„	Temple Combe Rectory	3.71 „ 7.7 „	
„	„ „ (Cheriton House)	3.26 „ 7.3 „	

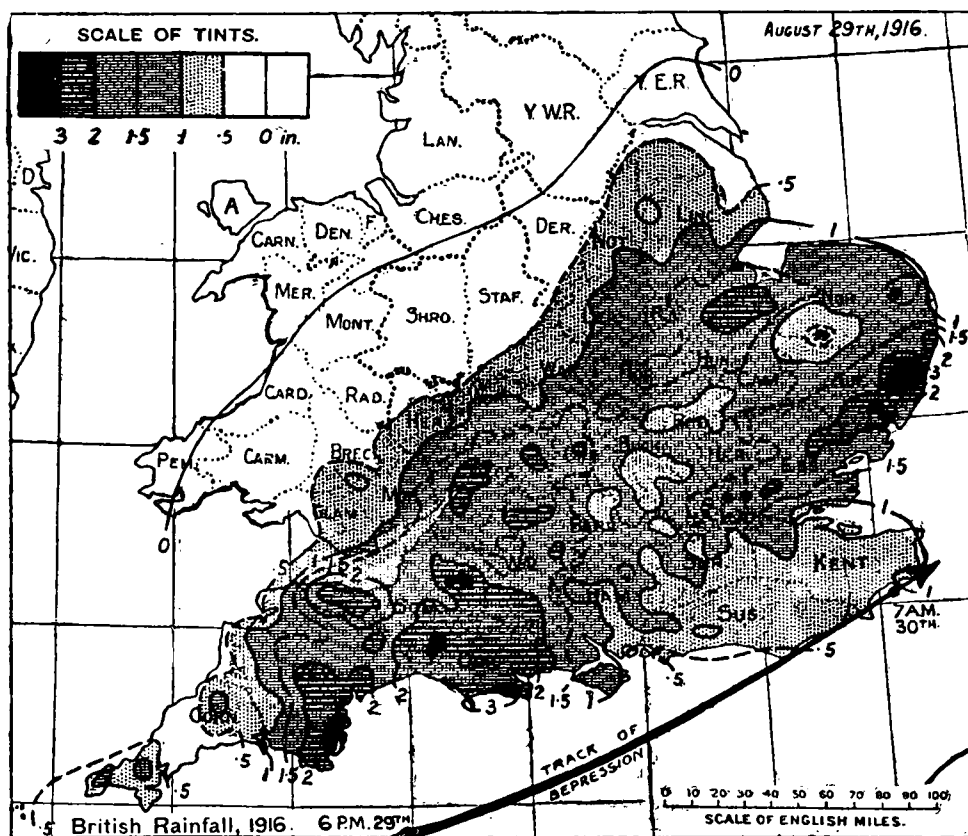
August 29th.*

The heavy rainfall of August 27th in the west of England] was followed on the 29th by an even more prolonged and widespread rain which affected the whole south of England from Devonshire to Norfolk, and yielded maximum falls of sufficient magnitude to be quoted in the following table at 117 stations, including 45 at which the rainfall for the day was more than 3 inches, and two at which it was more than 4 inches. In the western counties the day was the wettest since August 28th, 1910. The distribution of the rain was remarkable for its extreme patchiness, a feature which is well brought out in the accompanying map. It will be observed that the general distribution of the rain belonged to the familiar type associated with a depression moving up the Channel and producing surface winds from N.E. and N. over the greater part of the south of England. In this case the northern limit of precipitation was very sharply defined, no rain having fallen north of a line drawn from Pembroke to Flamborough Head. Except for one or two points on the south coast and in the west of Cornwall the rainfall for the day exceeded half an inch everywhere south of a line extending from the middle of Cornwall through Glamorgan to the coast of Lincolnshire, and the northern limit of falls exceeding 1 inch ran about 25 miles south of this line. The area with more than 1 inch extended along the coast, from Plymouth to Southampton, and then in a very irregular form the 1 inch isohyetal zig-zagged northward and eastward to the estuary of the Thames. An unusual feature in this distribution of rainfall was the presence of a group of areas with less than 1 inch ranged in order along the eastern half of the axis of the wet belt. The four largest of these comparatively dry areas

* See *Meteorological Magazine*, September, 1916, Vol. 51, pp. 120-121.

were situated respectively in Berkshire, Buckinghamshire, Bedfordshire and Norfolk. The western portion of the wet area contained three large tracts with more than 2 inches, including several spots where the fall exceeded 3 inches, while the eastern portion exhibited a double chain

RAINFALL, AUGUST 29TH, 1916.



of smaller 2-inch areas, one running from the Severn to the Wash north of the comparatively dry belt just referred to, the other south of the dry belt, from Marlborough to the coast of Suffolk, developing a 3-inch area in the last named county.

The measurement of the areas on the map yield the following figures :—

	Area, sq. miles.	General Rainfall, inches.	Volume of Rain, sq. miles x inches
More than 3 inches	622	3.23	2012
2—3 inches	4170	2.32	9690
1—2 „	18533	1.44	26750
.5—1 inch	11355	.77	8788
0—.5 „	10634	.26	2775
Total	45314		50015

This gives a general rainfall of 1·65 in. for the 23,325 square miles with more than 1 inch, and a general rainfall of 1·10 in. for the 50,015 square miles on which any rain fell.

The rain fell for the most part with northerly and north-easterly winds on the evening of the 29th and during the night of the 29th-30th.

III.	Eye (Newborough)	2·25 in. or	7·8 per cent.
„	Wisbech (Queen's Road)	2·80 „	8·7 „
„	Stanground Sluice	2·07 „	7·8 „
„	Thorney (Bedford Office)	2·18 „	9·2 „
„	Parson Drove (Clows Cross)	2·40 „	9·7 „
„	Wisbech (Bank House)	2·50 „	8·6 „
IV.	Colchester (Borough Surveyor's Office)	2·55 „	8·2 „
„	East Bergholt (Ackworth House)	2·35 „	7·8 „
„	Ipswich (Woolverstone Park)	2·58 „	7·7 „
„	„ (Rookwood, Copdock)	2·69 „	7·6 „
„	Elmsett (Laurel Cottage)	2·55 „	8·1 „
„	Orford (The Gables)	2·22 „	7·5 „
„	Woodbridge (Melton Asylum)	3·42 „	10·6 „
„	„ (Bromeswell Rectory)	2·38 „	9·1 „
„	„ (Boulge Cottage)	3·37 „	10·3 „
„	Rendlesham Hall	3·07 „	11·3 „
„	Debach School	3·11 „	9·9 „
„	Snape	3·24 „	10·8 „
„	Parham (The High House)	2·98 „	9·6 „
„	Campsea Ashe (High House)	2·53 „	9·2 „
„	Aldborough (Aldringham House)	3·42 „	10·4 „
„	Leiston (Lower Abbey)	3·61 „	12·0 „
„	Outwell (Wellbreck Sluice)	2·16 „	8·2 „
„	Emneth	2·68 „	9·1 „
V.	Donhead St. Mary (Charlton House)	4·38 „	8·0 „
„	Maiden Bradley	2·64 „	5·4 „
„	Evershot (Melbury House)	2·90 „	6·5 „
„	Chedington Court	3·08 „	6·8 „
„	Sherborne Castle	2·66 „	5·9 „
„	Portland Bill (New Lighthouse)	3·91 „	13·4 „
„	„ (H.M. Naval Depot)	3·15 „	8·4 „
„	Chickerell (Montevideo)	2·52 „	7·4 „
„	East Fleet (Fleet House)	2·90 „	8·8 „
„	Tyneham House	3·33 „	8·4 „
„	East Lulworth Vicarage	3·11 „	7·8 „
„	Creech Grange	3·30 „	7·5 „
„	Corfe Castle (Kingston Vicarage)	3·44 „	.. „
„	Abbotsbury (Castle Gardens)	2·60 „	6·9 „
„	„ (Market Street)	2·67 „	6·7 „
„	Upwey (Portland W.W., Friar Waddon) ..	2·65 „	6·6 „
„	„ („ „)	2·60 „	6·7 „
„	Stoborough (King Barrow)	2·58 „	6·3 „
„	Dorchester (Kingscote)	2·70 „	7·4 „
„	Poole (Parkstone)	2·51 „	6·6 „
„	Cattistock (Bell Cottage)	2·62 „	5·3 „
„	Beaminster (Hamilton Lodge)	3·13 „	6·8 „
„	Kinson (Eglinton)	3·04 „	7·3 „
„	Horton Vicarage	2·86 „	6·9 „
„	East Allington (Fallapit)	2·89 „	5·9 „

V.	Dartmouth (Stoke Fleming)	3.33 in. or 6.8 per cent.	
"	Paignton (Queen's Park)	3.05 "	7.2 "
"	" (Torquay Road)	3.12 "	7.1 "
"	" (Summerlands)	3.29 "	7.6 "
"	Totnes (Rosabelle)	3.07 "	5.8 "
"	" (Berry Pomeroy)	3.20 "	6.6 "
"	" (Broadhempston)	2.67 "	6.0 "
"	Ipplepen Vicarage	2.66 "	5.7 "
"	Torquay (Princess Gardens)	3.52 "	8.8 "
"	" (Cary Green)	3.88 "	9.4 "
"	" (Merton Lodge)	3.40 "	8.6 "
"	" (Kilmorie)	4.25 "	10.3 "
"	" (Roby Hall)	3.39 "	7.7 "
"	" (Stoodley Knowle)	3.88 "	9.5 "
"	Teignmouth (Den Gardens)	2.82 "	7.3 "
"	" (Landscore Res.)	3.15 "	7.9 "
"	" (Hazledown Res.)	3.25 "	8.2 "
"	" (Shaldon)	2.67 "	6.6 "
"	" (Bonnicliff)	2.83 "	7.8 "
"	" (The Shrubbery)	2.83 "	7.1 "
"	" (Benton)	2.98 "	8.1 "
"	Dawlish (The Lawn)	2.75 "	7.2 "
"	Chudleigh (Ideford Rectory)	2.79 "	7.5 "
"	Moretonhampstead (Bullaton)	2.54 "	5.2 "
"	" (Mardon)	2.67 "	5.6 "
"	North Bovey (Manor House)	2.55 "	4.3 "
"	Moretonhampstead (Blackingstone)	2.60 "	5.0 "
"	" Rectory	2.61 "	5.4 "
"	Budleigh Salterton (Squabmoor)	2.55 "	6.5 "
"	Cranmore Hall	3.34 "	5.9 "
"	Shepton Mallet (Pondsmead, Oakhill)	3.31 "	5.8 "
"	" (Hillylands, ")	3.41 "	5.8 "
"	Frome W.W. (Egford)	2.52 "	5.9 "
"	Mells Park	3.08 "	6.9 "
"	" (Wadbury House)	2.92 "	6.4 "
"	Binnegar (Gurneyslade)	2.80 "	5.5 "
"	Stratton-on-the-Fosse (Downside Abbey) ..	2.91 "	6.1 "
"	Shepton Mallet (Grammar School)	2.69 "	5.4 "
"	Wells (Dinder Cottage)	3.60 "	7.6 "
"	Wraxall (Boys' School)	2.85 "	6.8 "
"	Crewkerne (The Reservoir)	2.74 "	6.5 "
"	" (Bincombe House)	2.85 "	6.0 "
"	" (Merefield House)	2.74 "	6.0 "
"	Coker Court Gardens	3.09 "	7.1 "
"	West Coker	3.11 "	8.0 "
"	Montacute (Odcombe Rectory)	2.88 "	" "
"	Yeovil (Gas Works)	2.72 "	7.2 "
"	" (Pen Mill Sewage Works)	2.54 "	6.2 "
"	Stoke-under-Ham	2.80 "	7.1 "
"	Wiveliscombe (Culver Head)	2.80 "	6.1 "
"	North Cadbury Rectory	2.65 "	6.3 "
"	Cothelstone House	3.70 "	8.6 "
"	Williton (Aller Farm)	3.69 "	9.1 "
"	" (Capton)	3.77 "	9.4 "
"	Holford (Dytshe School)	2.98 "	7.4 "
"	Quantockshead (St. Audries)	3.05 "	7.6 "
"	Dunster (The Hall)	3.66 "	9.2 "

V.	Minchhead (Mariansleigh)	2.62 in.	or 7.1 per cent.
..	.. (Clanville)	2.86 ..	8.2 ..
..	Porlock (Lynch Mead, Allerford)	2.95 ..	7.4 ..
..	Winsford School	3.11 ..	5.0 ..
..	Cutcombe (Wheddon Cross)	3.55 ..	6.2 ..
..	Cricket St. Thomas (Cricket House)	2.85 ..	5.7 ..
VI.	Berkeley Castle Gardens	2.50 ..	6.5 ..
..	Great Barrington	2.59 ..	7.1 ..
..	Northleach (Sherborne House)	2.50 ..	6.3 ..
VII.	Tydd (North Level Sluice)	2.57 ..	8.9 ..
..	Crowland (Bank House)	2.20 ..	8.0 ..

September 3rd.

IX.	Scruton Hall	1.91 in.	or 8.0 per cent.
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September 17th.

XI.	Birmingham W.W. (Claerwen)	2.50 in.	or 3.3 per cent.
..	.. Tan-y-bwlch (The Gardens)	2.55 ..	3.9 ..
..	.. Beddgelert (Council School)	3.22 ..	3.4 ..

September 18th.

IX.	Slaidburn (Whitendale)	2.53 in.	or 3.2 per cent.
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September 26th.

This very wet day in the Channel Islands was also characterized by thunderstorms in the south of Ireland.

XI.	St. Peter Port (Market Street)	2.56 in.	or 6.9 per cent.
..	.. Sark (Pointe Robert)	2.55 ..	8.2 ..

October 1st.

XX.	Glanmire (Lota Lodge)	2.74 in.	or 6.2 per cent.
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October 2nd.

XI.	Gorseinon (Penllergaer)	2.74 in.	or 5.2 per cent.
..	.. Felindre (Lower Lliw Res.)	2.58 ..	4.8 ..
..	.. " (Upper ")	2.80 ..	4.2 ..
..	.. Pontardawe (Plas Cilybehyll)	2.83 ..	4.3 ..
..	.. Ystalyfera (Wern School)	2.92 ..	4.0 ..
..	.. Neath	2.66 ..	4.3 ..
..	.. " (Glynfeln)	2.75 ..	4.4 ..
..	.. Glyncoirwg Colliery	2.70 ..	2.9 ..
..	.. Llanelly (Old Market Yard)	2.54 ..	5.3 ..
..	.. " (Cwmlledi W.W.)	2.67 ..	4.8 ..

October 5th.

The wettest day in Snowdonia.

IX.	Ingleton (Kingsdale Head)	3.29 in.	or 3.8 per cent.
..	.. Slaidburn (Thorneyholme)	3.05 ..	4.7 ..
X.	Borrowdale (Grange)	3.95 ..	4.1 ..
XI.	Blaenau Festiniog (Llechwedd Quarry)	3.25 ,	2.9 ..

XI.	Snowdon (Pen-y-Gwryd)	.....	4.08 in. or 3.0 per cent.
„	„ (Cwm Dyli)	.....	3.87 „ 3.2 „
„	„ (Old Road)	.....	3.77 „ 3.5 „
„	„ (Llyn Llydaw Intake)	.....	5.18 „ 3.5 „
„	„ („ „ Copper Mill)	5.60 „ 3.3 „

October 6th.

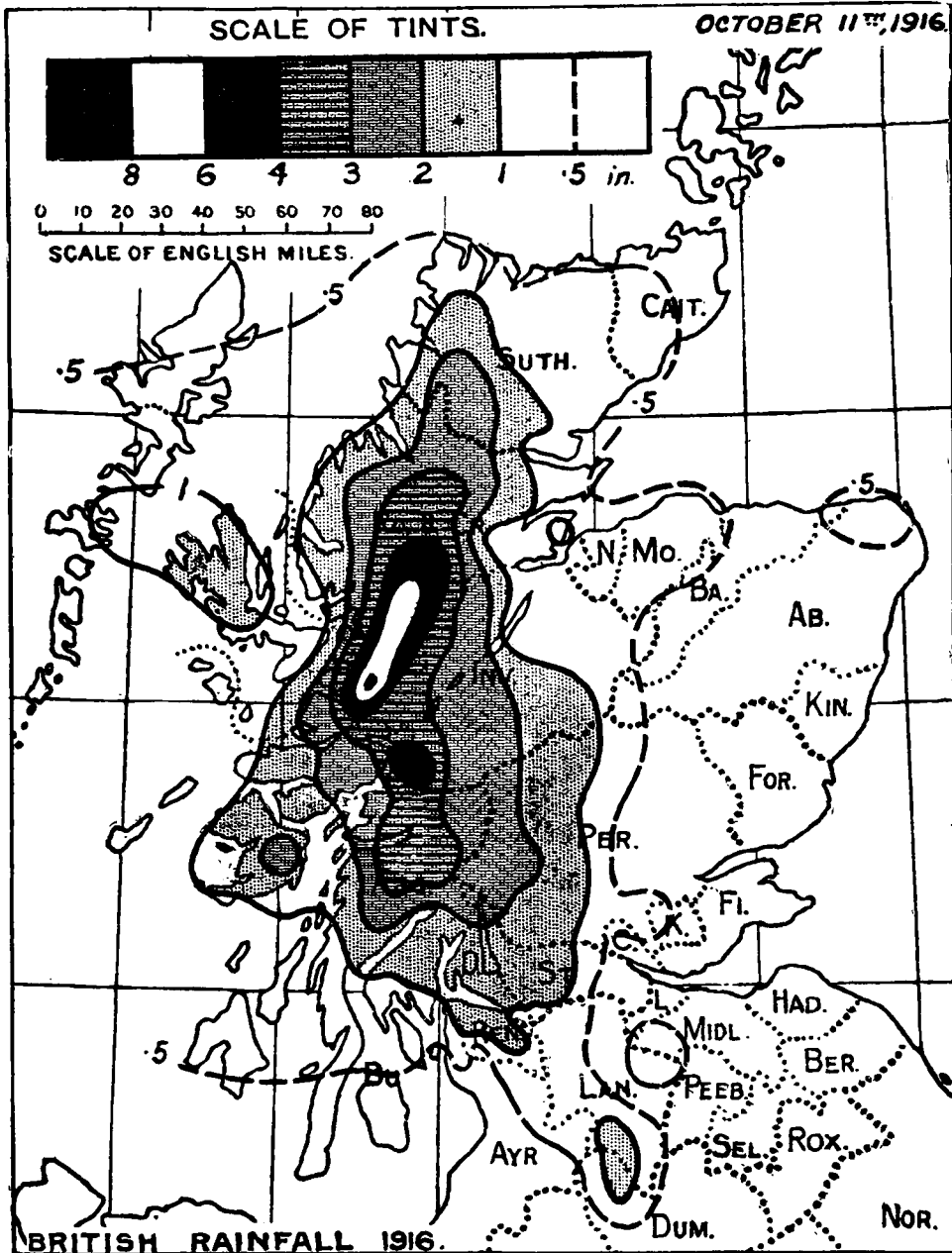
IX.	Slaidburn (Dunsop Houses)	2.64 in. or 3.8 per cent.
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October 11th.

The unprecedented storm in the east of Scotland on July 7th and 8th met with its counterpart on this occasion in the west Highlands, but as befits the high average rainfall of the west the falls were much greater and in the centre of the storm area the highest rainfall ever recorded in one day for the British Isles was experienced. At Kinlochquoich, in Glenquoich, the fall, as recorded by Colonel Cameron of Lochiel, for October 11th, amounted to **8.20** in. This glen has long been known as one of the wettest parts of Scotland, and it is fortunate in possessing three rainfall stations, at two of which daily observations are made. Kinlochquoich, at an elevation of 560 feet above sea level, has an annual rainfall considerably lower than that at Loan, 650 feet, but unfortunately the rain gauge at the latter station is only read monthly, and we cannot tell what it received on this day. Glenquoich Lodge, four miles east of Kinlochquoich, and practically at the same level, has normally a slightly lower annual fall, and on this occasion registered 5.82 in. for the day, a figure which confirms the larger value at Kinlochquoich. The greatest daily rainfall previously reported was 8.03 in., at Seathwaite in Borrowdale, on 12th November, 1897, this being the only other instance in which so much as 8 inches fell on a rainfall day in Great Britain or Ireland, although in the great Norfolk rain of August 26th—27th, 1912, 8.09 in. fell in 24 hours which formed part of two rainfall days, at Brundall. Unfortunately rainfall stations in most parts of the West Highlands are few and far between, and the map which illustrates this fall is much less certain as regards the run of the isohyets than that for the July fall in the east of Scotland. The main lines of the distribution are, however, quite simple and definite, and a glance shows that they reproduce the general distribution of rain in a normal winter month, closely resembling the distribution of the annual rainfall in a normal year. The rain fell with a strong and steady S.S.W. wind due to a distribution of pressure dominated by a depression near Iceland and an anti-cyclone over the Bay of Biscay and

France. This was, in fact, an exaggeration of the normal prevailing wind of the region, hence the distribution of rainfall was dictated by the configuration of the land, being thus in direct contrast to the cyclonic rain of

RAINFALL, OCTOBER 11TH, 1916.



July 7th which brought the heaviest precipitation on what is normally almost the driest part of the country. The map shows that on October 11th rain fell in all parts of Scotland though there was less than

half an inch in the eastern and southern tiers of counties. More than 1 inch prevailed from the north of Renfrewshire through the west of Stirling, Perth, Inverness, Ross and Cromarty and Sutherland and throughout Argyll, and the area with more than 2 inches lay from ten to fifteen miles inside. More than 3 inches occurred from the north of Argyllshire to the middle of Ross over a distance of nearly one hundred miles, with an average breadth of about twenty miles; within this a patch with slightly more than 4 inches lay near Fort William on the south side of the great Glen, and a long narrow strip ran for nearly fifty miles through the west of Inverness-shire, with a core perhaps thirty miles in length, where the rainfall exceeded 6 inches, rising in the south of the area to the 8-inch maximum in Glenquoich. It did not seem necessary to estimate the volume of rainfall on this day as the small number of stations available for plotting the map makes it impossible to be sure that the heavy falls were continuous and not broken up into patches covering a smaller area than is shown. It is impossible that so huge a volume of rain could descend upon the land in one day without causing extensive damage, and we are not surprised to find that the West Highland Railway, with its branches to Fort Augustus and Mallaig, was rendered impassable for several days by numerous wash-outs which completely isolated Fort William. Many of the roads were destroyed by the deep ruts cut by the rain, and the hundreds of tons of débris carried down to the lower levels. Glen Nevis for a time was converted into a lake, and many sheep were lost. It is instructive to note that the damage recorded was chiefly from the region where the rainfall did not exceed 4 inches, but this is accounted for by the fact that the full fury of the storm was spent upon the wild mountains and glens beyond the railways and human habitations.

XV.	Ardgour House	3.61 in. or	3.5 per cent.
„	Duror (The Rectory)	2.78 „	3.5 „
„	Glenleven (Kinlochleven)	3.28 „	3.6 „
„	Loch Eil (Corran)	3.25 „	3.6 „
„	Taynuilt (Barguilean)	3.35 „	4.6 „
„	Glen Etive	4.55 „	4.0 „
„	Loch Awe (Dalavich)	2.96 „	3.6 „
„	Dalmally (Manse of Glenorchy)	3.25 „	3.7 „
XVIII.	Loch Quoich (Kinlochquoich)	8.20 „	5.7 „
„	„ „ (Glenquoich)	5.82 „	4.4 „
„	Loch Nevis (Inverie Gardens)	2.85 „	3.1 „
„	Loch Lochy (Invergloy)	2.68 „	4.5 „
„	North Ballachulish (Alltshellach)	2.72 „	3.4 „
„	Glenleven (Kinlochmore Gardens)	4.20 „	4.0 „
„	Fort William (Atholl Bank)	4.50 „	5.4 „
„	Achnasheen (Ledgowan)	4.60 „	5.2 „
„	Glencarron Lodge	4.37 „	5.1 „

October 13th.

XVIII.	Loch Arkaig (Glen Dessary)	4.95 in. or 3.9 per cent.
„	„ Skye (Scalpay Island)	3.00 „ 4.2 „

October 14th.

A second remarkably heavy rainfall accompanied the storm of this date in the part of the West Highlands where the rain of the 11th had been worst. At Glen Carron the floods were higher than had been recorded before.

XV.	Ballachulish House	3.15 in. or 3.6 per cent.
„	„ Glen Leven (Blackwater Dam, S.)	3.76 „ 4.0 „
„	„ Inveraray Castle Gardens	2.50 „ 2.7 „
XVI.	„ Glengyle	2.85 „ 2.9 „
„	„ Balquhiddie, Stronvar	3.20 „ 4.0 „
XVIII.	„ Glen Garry (Inchlaggan)	4.50 „ 5.3 „
„	„ Loch Arkaig (Achnacarry)	4.39 „ 4.6 „
„	„ Glen Leven (Blackwater Dam, N.)	3.50 „ 3.7 „

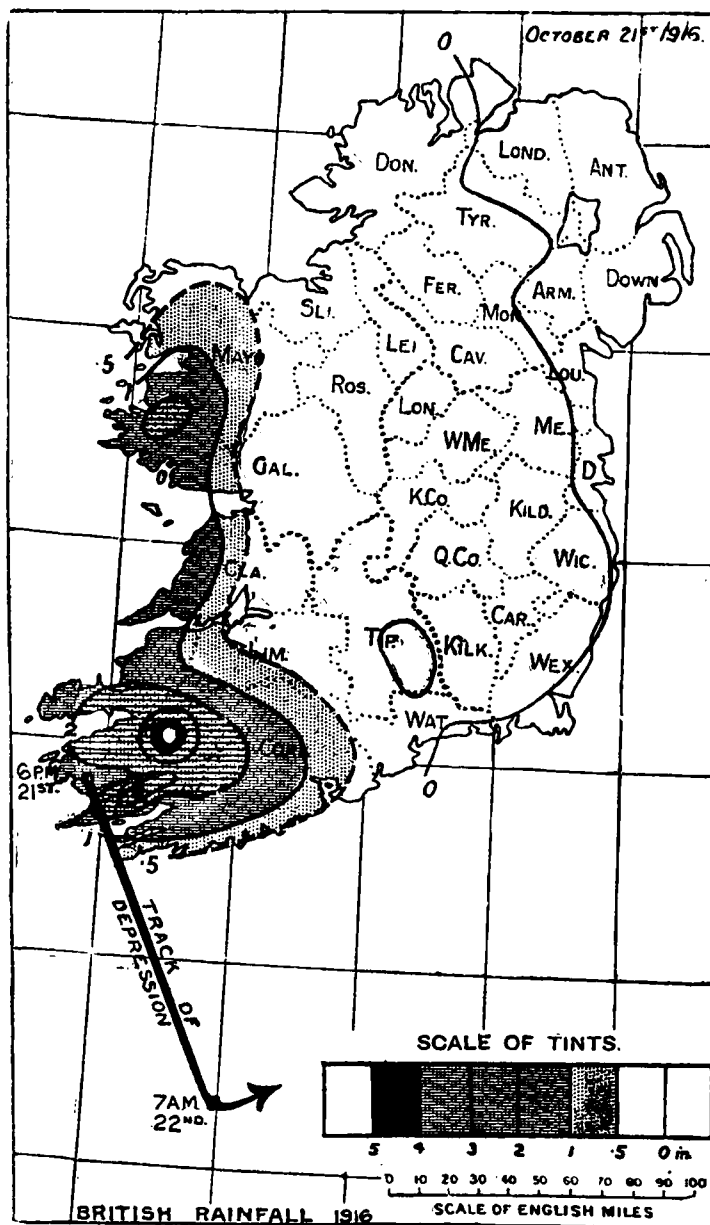
October 21st.*

The rainfall of this day was remarkable in bringing the highest fall ever recorded in the west of Ireland to the neighbourhood of Killarney, where 5.35 in. was recorded at the District Asylum, and 5.02 in. at Flesk Mills. Falls of 5 inches and over have only twice before been recorded in any part of Ireland, on each occasion at the very exceptional station of Glen-na-Smoel, Co. Wicklow. Considering the high falls at Killarney it is remarkable that only about a dozen stations in Ireland registered notable maximum falls on this day, but that is partly accounted for by a more widespread rain which occurred on November 16th in the same district with maxima generally higher, though not yielding such extreme individual falls as those of October 21st. A map is given of the latter fall showing that the rain did not extend to the north-eastern counties of Ireland or to the east coast, but that half an inch or more was confined to Cork, Kerry and the west of Limerick, Clare, Galway and Mayo. Only a small area in Cork and Kerry had more than 2 inches, and the intense fall was localized close to Killarney. The rainfall appears to have been due to the formation of a very small shallow depression near the mouth of the Kenmare River at 6 p.m. on the 21st, which travelled southward, deepening as it went and turned towards the east at 7 a.m. on the 22nd.

XX.	Killarney (Flesk Mills)	5.02 in. or 7.9 per cent.
„	„ (District Asylum)	5.35 „ 8.0 „
„	„ Kenmare (Dromore)	4.07 „ 5.8 „
„	„ (Dunkerron Castle)	2.97 „ 5.1 „

* See *Meteorological Magazine*, December 1916, Vol. 51, p. 161.

RAINFALL, OCTOBER 21ST, 1916.



October 28th.

VIII. Huncoat (Burnley Road Res.) 2.53 in. or 4.7 per cent.

October 30th.

X. Patterdale (Greenside Mines) 4.25 in. or 4.4 per cent.

November 10th.

XVIII. Poolewe (Inverewe Gardens) 2.55 in. or 4.0 per cent.

XIX. Loch More (Achfary) 2.51 ., 3.0

November 16th.

This was an important and widespread rain in Ireland and we much regret that it has been impossible to deal with it in detail or to construct a map.

XX.	Caheragh (The Rectory)	2.90 in. or 4.9 per cent.
„	Ballineen (Kilmeen Rectory)	3.02 „ 5.3 „
„	Dummanway (The Rectory)	3.64 „ 5.4 „
„	Cork (Corn Market)	2.59 „ 5.5 „
„	„ (University College)	2.78 „ 6.0 „
„	„ (Wellington Road)	3.06 „ 7.0 „
„	Mallow (Summer Hill)	3.15 „ 7.3 „
„	„ (Longueville)	3.28 „ 7.8 „
„	Ballyhooley	2.55 „ 5.5 „
„	Kenmare (Sheen Falls).....	3.36 „ 4.6 „
„	„ (Dromquinna)	4.30 „ 6.4 „
„	Lismore Castle	2.78 „ 6.5 „
XXII.	Aasleagh House	3.47 „ 3.2 „
„	Delphi Lodge	3.13 „ 2.7 „

November 17th.

V.	Empacombe [Devonport]	2.60 in. or 6.2 per cent.
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December 20th.

XV.	Duchray Valley (Glen Dhu)	4.45 in. or 4.9 per cent.
„	„ „ (Comer)	3.70 „ 3.8 „

December 28th.

A typical winter rain in the Lake District and Wales.

VIII.	Hawkshead (Tower Bank, Sawrey)	2.66 in. or 3.6 per cent.
„	Skelwith Fold [Ambleside]	3.06 „ 3.4 „
IX.	Hawes Junction	2.64 „ 3.5 „
„	Sedbergh (Dent Post Office)	2.53 „ 3.0 „
„	„ (Howgill School)	2.58 „ 4.1 „
X.	Bowness (Lindeth Howe)	2.50 „ 3.5 „
„	„ (Dawstone)	2.62 „ 3.7 „
„	Windermere	2.65 „ 3.8 „
„	„ (Hammar Bank)	2.70 „ 4.0 „
„	Bowness (Fellside)	2.66 „ 3.7 „
„	Windermere (Holehird)	2.76 „ 3.7 „
„	„ (Brockhole)	2.82 „ 3.8 „
„	Ambleside (Wansfell)	3.09 „ 3.9 „
„	„ (Skelwith Bridge)	3.70 „ 4.0 „
„	„ (White Craggs)	3.35 „ 4.2 „
„	„ (Gale House)	3.51 „ 4.2 „
„	„ (Loughrigg Brow)	3.65 „ 4.3 „
„	„ (Tweenway House)	3.52 „ 4.4 „
„	Rydal (The Stepping Stones) ..	4.14 „ 4.6 „
„	„	4.15 „ 4.8 „
„	„ (High Close)	3.65 „ 4.1 „
„	„ (Silverthwaite)	3.28 „ 4.3 „
„	Dungeon Ghyll	5.10 „ 4.1 „
„	Kendal (Ellergreen)	2.52 „ 4.0 „

XI.	Rhondda (Pont Lluest Wen Res.) No. 3	....	2·63 in. or	2·8 per cent.
"	" " " " ") No. 1	....	2·71 "	2·7 "
"	(Llyn Fawr Res.)	.....	3·25 "	3·2 "
"	Cardiff W.W. (Beacons Res.)	.....	2·56 "	2·9 "
"	Taff Fechan (Neuadd Res.) No. 1	.....	2·70 "	3·3 "
"	" " ") No. 4	.....	2·90 "	3·0 ..
"	" " ") No. 4a	.....	2·85 "	3·0 ..
"	" " ") No. 11	.....	2·60 "	3·7 "
"	Swansea W.W. (Bwlch)	.....	3·20 "	2·8 "
"	Blaenau Festiniog (Oakley Quarries)	.....	3·20 "	3·0 "
"	Penmachno (Nant-y-Crogwyn)	.....	2·80 "	3·4 "

Part II.—Abstract.

The general conclusions to be drawn from the foregoing study of heavy falls on rainfall days are embodied in the four tables which follow. They are on the same plan as last year. Table I. gives the twenty largest maximum falls for the year, and is dominated by the great figure of 8·20 in. at Kinlochquoich, while no less than seven falls exceed 5 inches. Only three of the falls quoted occurred in the summer half year, one on May 31st, at Seathwaite, and two on August 29th at Donhead St. Mary and Torquay. Fourteen of the great falls took place in October, one in November and only two in December. With one exception all of these falls occurred at stations where the rainfall for the year exceeded 50 inches.

Table II. gives the twenty largest percentages of the annual rainfall which fell on one day and calls attention to the remarkable falls in the drier parts of the country, all being reported from stations which had less than 42 inches for the year. All these falls occurred in summer storms in July or August, and seventeen of them took place on August 29th. The highest percentage was 13·4, and only three cases are recorded in which the percentage exceeded 11.

Table III. gives the highest daily rainfall and the highest percentage for the period 1865-1869 and for each year since 1870, the Kinloch-quoich figure being the highest in the list, displacing 8·03 in. at Seathwaite in 1897.

Table IV., which was introduced for the first time last year, deals with all the falls of rain beyond a certain magnitude, whether these were the greatest in the year or not, and for the purpose of comparison the figures for 1915 are reproduced.

TABLE I.—*The Largest Maximum Falls in 1916.*

Date.	Div.	Station.	Depth.	Per Cent.	Total.
			in.		in.
Oct. 11	XVIII.	Loch Quoich, Kinlochquoich	8.20	5.7	144.04
" 11	"	" " Glenquoich	5.82	4.4	131.23
" 5	XI.	Snowdon, Llyn Llydaw Copper Mill	5.60	3.3	170.89
" 21	XX.	Killarney, District Asylum	5.35	8.0	69.97
" 5	XI.	Snowdon, Llyn Llydaw Intake	5.18	3.5	148.26
Dec. 28	X.	Dungeon Ghyll	5.10	4.1	125.33
Oct. 21	XX.	Killarney, Flesk Mills	5.02	7.9	63.92
" 13	XVIII	Loch Arkaig, Glendessary	4.95	3.9	125.87
" 11	"	Achnasheen, Ledgowan	4.60	5.2	88.64
" 11	XV.	Glen Etive	4.55	4.0	112.95
" 11	XVIII.	Fort William, Atholl Bank	4.50	5.4	83.13
" 14	"	Glen Garry, Inchlaggan	4.50	5.3	84.37
May 31	X.	Borrowdale, Seathwaite	4.50	3.2	141.75
Dec. 20	XV.	Duchray Valley, Glen Dhu	4.45	4.9	91.15
Oct. 14	XVIII.	Loch Arkaig, Achnacarry	4.39	4.6	95.47
Aug. 29	V.	Donhead St. Mary, Charlton House	4.38	8.0	54.63
Oct. 11	XVIII.	Glencarron Lodge	4.37	5.1	85.41
Nov. 16	XX.	Dromore, Dromquinna	4.30	6.4	67.59
Aug. 29	V.	Torquay, Kilmorie	4.25	10.3	41.29
Oct. 30	X.	Patterdale, Greenside Mines	4.25	4.4	95.74

TABLE II.—*The Largest Maximum Percentages in 1916.*

Date.	Div.	Station.	PerCent.	Depth.	Total.
				in.	in.
Aug. 29	V.	Portland Bill, New Lighthouse	13.4	3.91	29.24
" 29	IV	Leiston, Lower Abbey	12.0	3.61	30.02
" 29	"	Rendlesham Hall	11.3	3.07	27.19
July 7	XIII.	Inchkeith	10.9	3.30	30.36
Aug. 29	IV.	Snape	10.8	3.24	29.98
" 29	"	Woodbridge, Melton Asylum	10.6	3.42	32.38
" 29	"	Aldborough, Aldringham House ..	10.4	3.42	32.97
" 29	V.	Torquay, Kilmorie	10.3	4.25	41.29
" 29	IV.	Woodbridge, Boulge Cottage	10.3	3.37	32.93
" 17	III.	Cheshunt, Goff's Oak House	10.1	3.51	34.75
" 29	IV.	Debach School	9.9	3.11	31.51
" 15	VIII.	Morecambe	9.8	3.69	37.58
" 29	III.	Parson Drove, Clows Cross	9.7	2.40	24.81
" 29	IV.	Parham, The High House	9.6	2.98	31.20
" 29	V.	Torquay, Stoodley Knowle	9.5	3.88	40.69
" 29	"	" Cary Green	9.4	3.88	41.50
" 29	"	Williton, Capton	9.4	3.77	40.30
" 29	"	Dunster, The Hall	9.2	3.66	39.70
" 29	IV.	Campsea Ashe, High House	9.2	2.53	27.50
" 29	III.	Thorney, Bedford Office	9.2	2.18	23.78

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	6·07	4·5	Seathwaite ...	10	17·7	4·78	Hartlip	2	1867
					10·0	2·48	Burton	6	1866
1867	4·71	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 ...	4	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, Lanley ...	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	Sidecup	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	Duncheon 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 H.	"	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, Herschell H.	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 H. [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
1916	8·20	5·7	Kinlochquoich	18	13·1	3·91	Portland Bill	5	1916

It will be observed that the total number of records utilized is nearly 150 less than last year. The number of falls of rain in one day amounting to 7·5 per cent. of the annual total was much smaller than in the previous year in all places except Ireland, but as could be gathered from the Chronicle the daily falls of 3 inches or more are much more numerous. Falls of 2 inches or more were less numerous for England and Wales, though much more numerous for Scotland and Ireland than in the previous year. Readers may be reminded that the columns headed "per cent. of total" refer to the total number of stations yielding daily records, not to the total number of days with rain.

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 o. 4·00 in or more
		No.	Per cent. of total.	No.	Per cent. of total.	No.	Per cent. of total.	No.
ENG. & WALES, 1915	3745	112	3·0	748	20·0	41	1·1	1
1916	3626	62	1·7	646	17·8	88	2·4	10
SCOTLAND, 1915	550	26	4·7	212	38·5	33	6·0	1
1916	533	17	3·2	353	66·3	60	11·2	12
IRELAND, 1915	256	0	·0	71	27·7	8	3·1	0
1916	243	3	1·2	118	48·6	21	8·7	7
BRITISH ISLES, 1915	4551	138	3·0	1031	22·6	82	1·8	2
1916	4402	82	1·9	1117	25·4	169	3·8	29

MONTHLY RAINFALL IN 1916.

As in former years the monthly rainfall in inches at 299 stations is set out in the long table at the end of this article. These stations are selected so as to be as nearly equidistant as possible and thus the mean rainfall for all the stations given at the end of each of the large divisions of the country gives a close approximation to the general fall of rain in each month. As a comparatively small number of stations have records long enough to yield a trustworthy average the table of the relation of monthly rainfall to the average has to be restricted to 107 stations, these also being selected so as to be as representative and as nearly equidistant as possible so that their means give a fair idea of the relation of the general rainfall to the average. The maps of monthly rainfall in inches, and as a percentage of the average, are not to be viewed as illustrations in the text ; they are the original documents on which the text is based.

The percentage maps were plotted on a scale of 60 miles to the inch from the 107 stations quoted in Table II. with a few others, and the lines are guided to some extent by reference to the maps of total rainfall.

The maps of total rainfall on the left hand page, though suffering from their greater reduction, are of a higher order of accuracy than the percentage maps ; they were plotted on a very detailed map on the scale of 20 miles to an inch from the records of about 2,000 stations, and reduced by hand to a scale of 60 miles to an inch for further photographic reduction.

Viewing the **British Isles** as a whole we find that three months, March, June and December, had practically the average rainfall, three months, February, May and October, were very wet, the last named month not having been equalled in rainfall since 1903, and three months, July, August and September, were decidedly dry, September remarkably so. It is interesting to notice that February was very wet and September very dry in 1915 also, though the extremes on that occasion were more marked than the present. An interesting parallelism may be seen on this occasion between the rainfall of October and November, especially as regards the great area with more than 10 inches of rain on the high ground of the west both of Great Britain and Ireland. Special attention may be called to the remarkable features of the rainfall distribu-

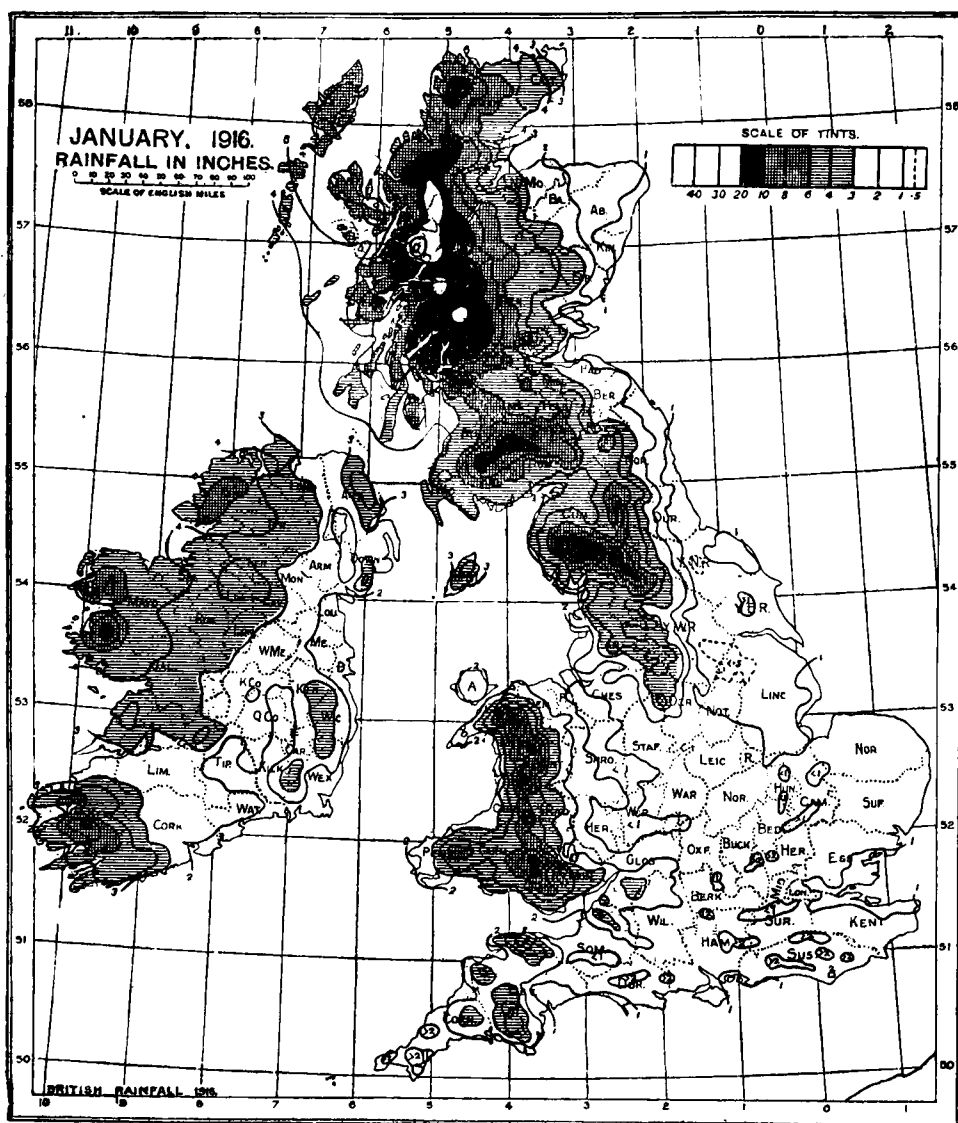
tion in two of the months. In March the effect of long continued steady easterly wind produced a map which fairly represents the average rainfall of the British Isles as it would be distributed if the wind blew as frequently from easterly quarters as it actually does from westerly quarters. In July the percentage map shows a quite exceptional simplicity indicating how the excess of rainfall round a very wet patch in the east of Scotland diminished in all directions and led up to a great deficiency round the periphery of the British Isles.

In **England**, as a whole, February was by far the wettest month, with practically twice the average fall, while March came next in wetness, giving the effect of an excessively inclement spring, an effect intensified by the fact that a very large part of the precipitation was in the form of snow. May, August, October and November were also wet, but June and December were nearly average, and July and September were very dry, while January and April were also dry months.

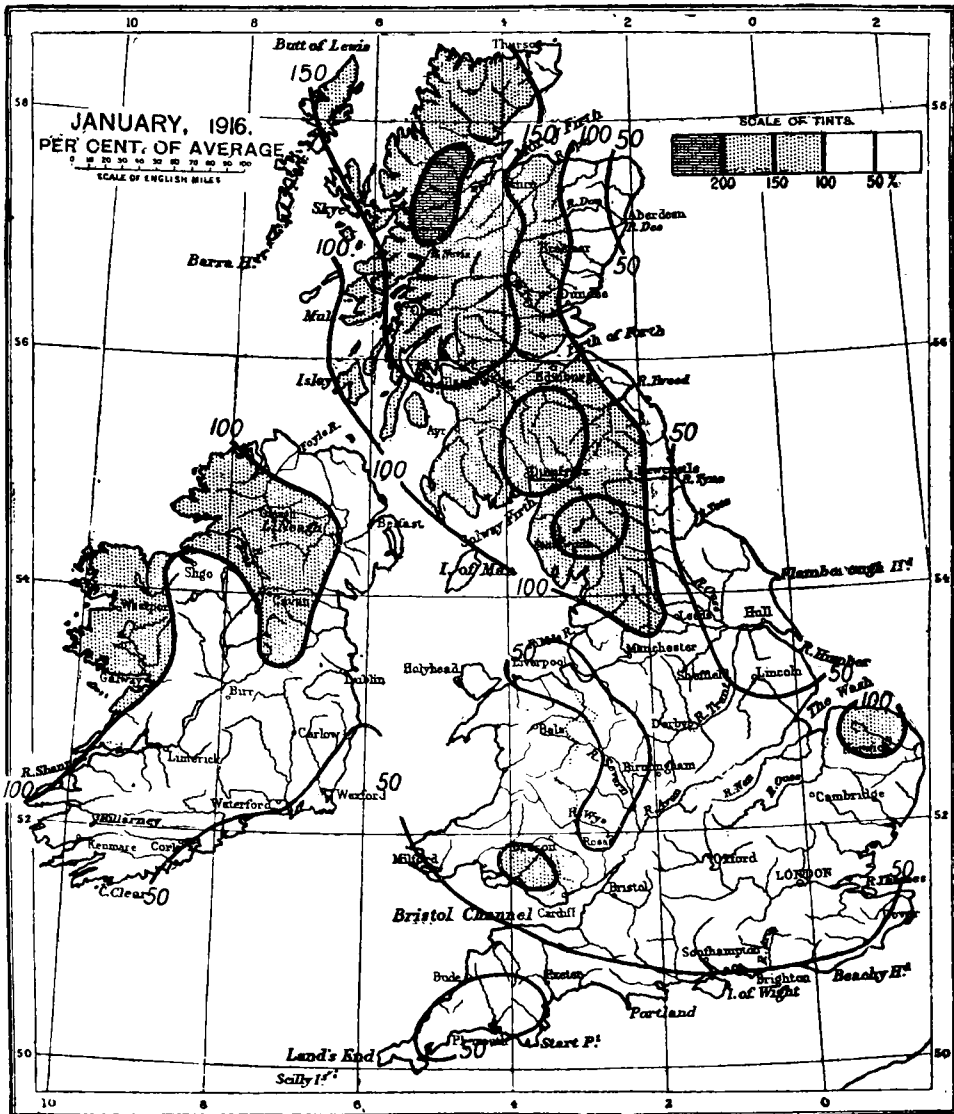
In **Wales**, as in England, the wettest month was February and the driest July. May and October were very wet months, April and June were close to the average, while January, March, August, September November and December, were dry, Wales being, on the whole, the driest part of the British Isles, with respect to its average throughout the year, having only had four months with more than the average fall as compared with eight months in England.

Scotland, which was the wettest of the great divisions on the balance of the year, had its wettest month in October, but January, May and February came little behind, while April and November were very wet, and June and July were wet also. December was close to the average in rainfall and three months only had less than the average, viz., March, August and September; September, with 56 per cent. of the average, being the driest month experienced in any part of the British Isles.

In **Ireland**, October was one of the wettest months on record, more than twice the average rainfall having fallen, while February, April, May and November were also very wet months. These wet months were, however, nearly balanced by seven very dry months. January, March and December, all fairly dry, were separated by wet months, but June, July, August and September made a solid block, with rainfall below the average, indeed, from June to September only three quarters of the normal rainfall fell.



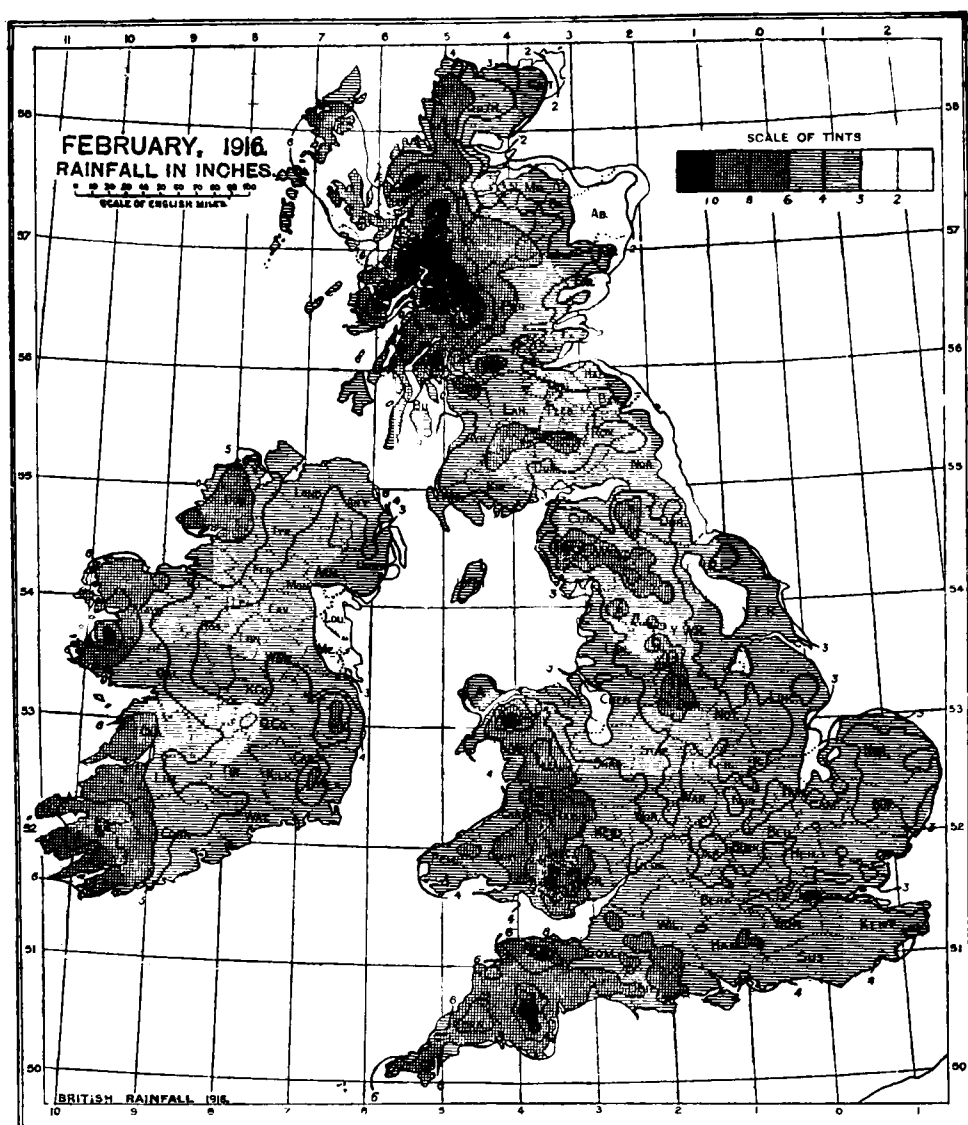
January—The most remarkable feature was the extremely high temperature which prevailed in association with high pressure in the south of England, and a series of depressions passing to the north of Scotland. The result was prevailing south-westerly winds leading to a rainfall which diminished from west to east but was abnormally light in the south and east, and abnormally heavy in the north-west. A few areas along the east coast had less than 1 inch of rain. More than 3 inches of rain only occurred on the high land in the west and over about half of Ireland. In Wales, the Lake District, the west of Ireland, and the south of Scotland small areas had more than 10 inches, but the area with more than 10 inches in Scotland was very extensive, and included a large



stretch where more than 20 inches fell, rising at one point to more than 40.

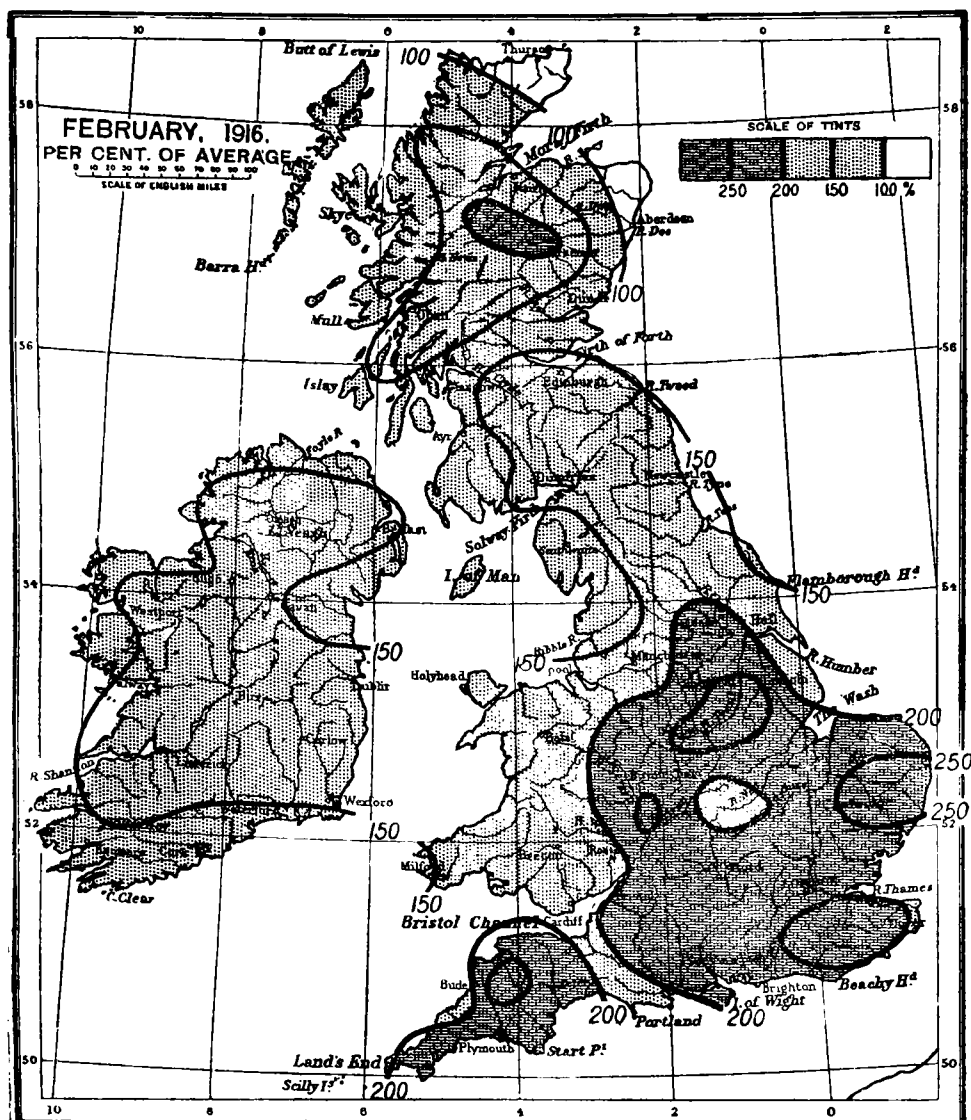
Both in Great Britain and Ireland the rainfall exceeded the average mainly in the north and west, a large part of Scotland had an excess of more than 50 per cent., and north of Fort William more than twice the average fall was experienced. Less than half the average fell in the east of Aberdeenshire, in the north-east of England, at a few points on the south coasts of England and Ireland, and on the eastern border of Wales.

The general rainfall of England was 15 per cent. below the average, of Wales, 23 per cent., and of Ireland, 13 per cent. below, while for Scotland it was 53 per cent. above the average, and for the British Isles as a whole, there was an excess of 7 per cent.



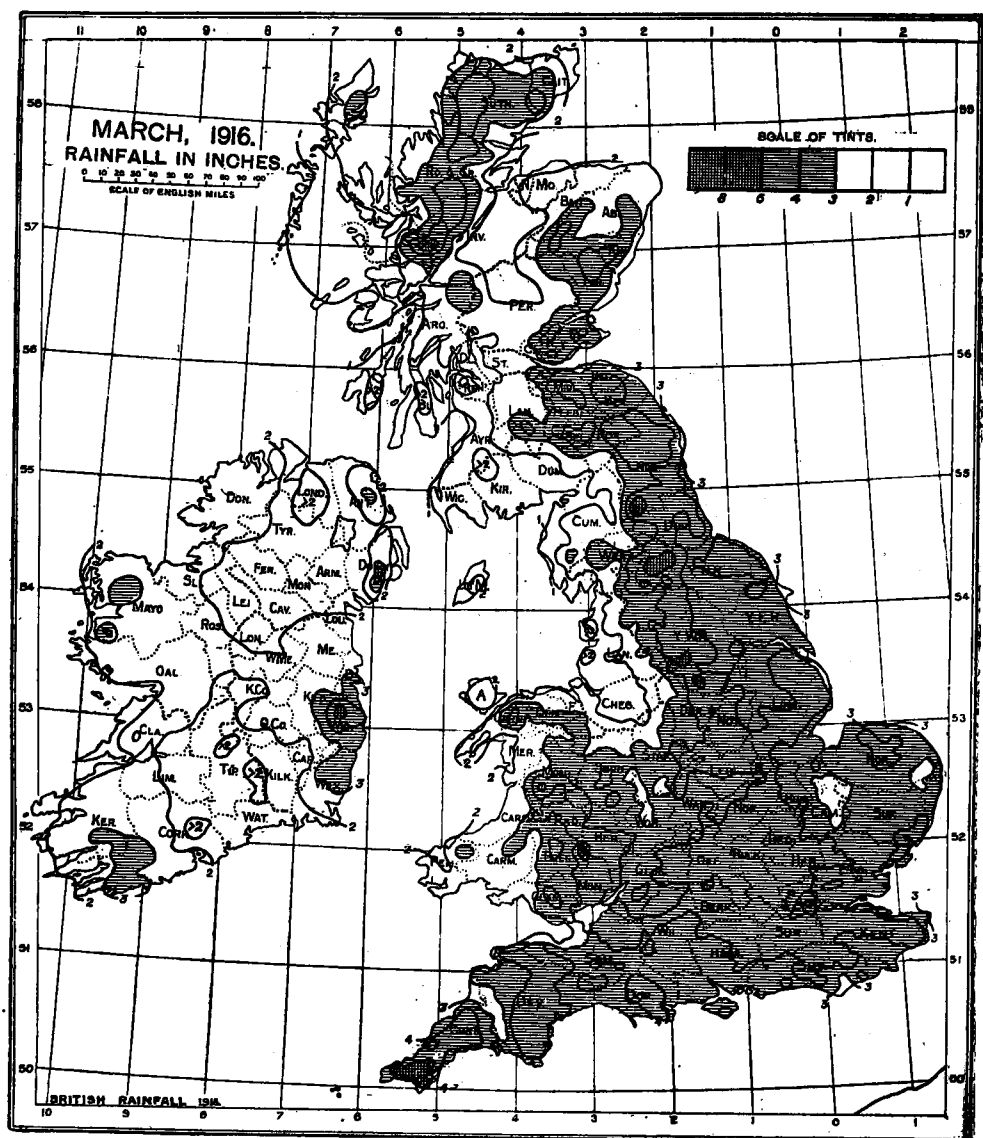
February had the highest rainfall of all the months in England and Wales, and was very wet in all parts of the country. This resulted less from very severe rain storms than from extremely frequent precipitation, mainly in the form of snow, which lay deeply over most parts of the country throughout the latter half of the month. Only a few small strips on the coast had less than 3 inches of rain, and only in the extreme north-east of Scotland did the rainfall fail to exceed 2 inches. A large part of the west had more than 6 inches, and patches with more than 10 inches appear on all the high western uplands from Dartmoor to Ross-shire.

Less than the average rainfall was confined to a narrow strip in the north-east of Scotland, no other month showing so small an area below

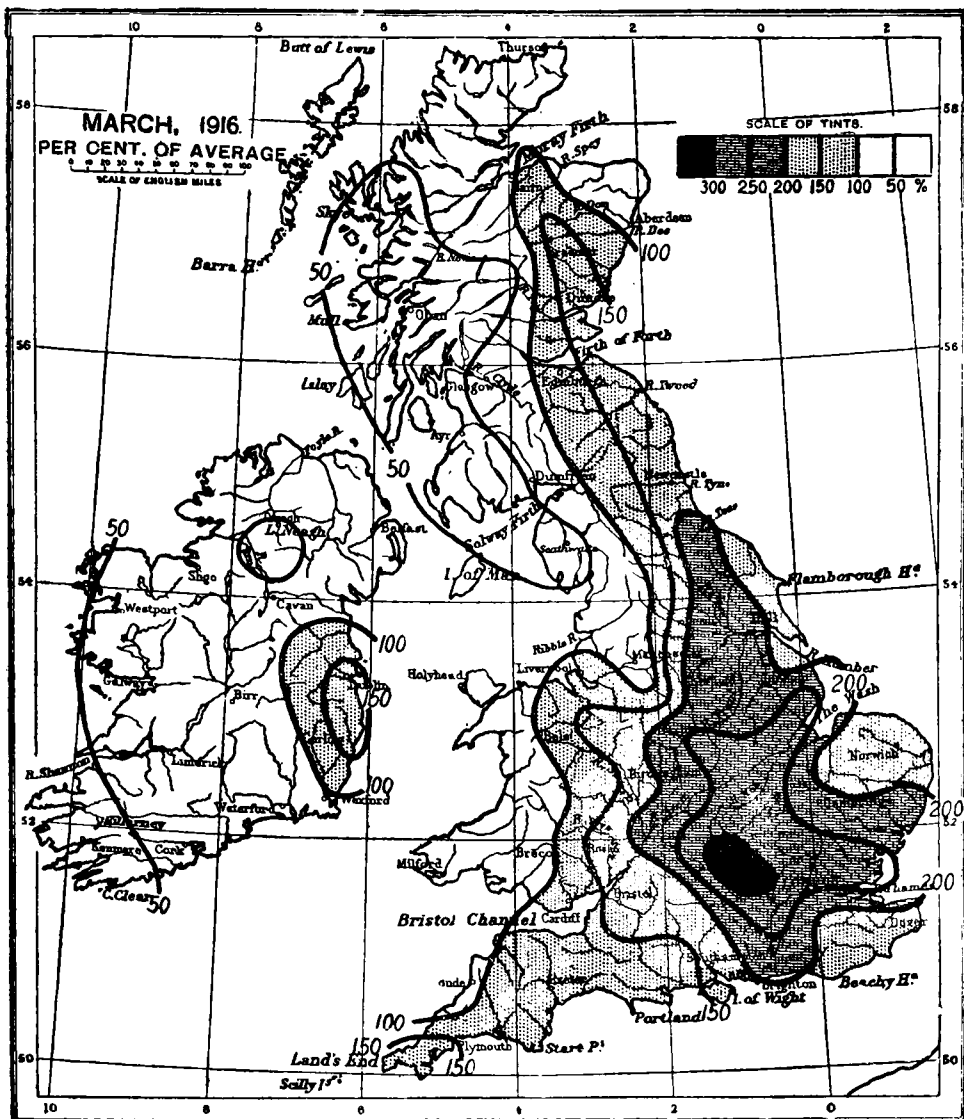


the average, or so slight a deficiency. On the other hand an enormous area in the south and east of England, and a small area in Scotland, received more than twice the average fall. It must, of course, be remembered that February is not only the shortest month but over a large part of England it is a month of minimum average rainfall, so that the total precipitation was by no means so great as an equal departure from the average would mean in other months.

The general rainfall for England was 99 per cent. in excess of the average. For Wales the excess was 74, for Scotland 48 per cent., and for Ireland 55 per cent. The excess for the British Isles, as a whole, was 69 per cent., a figure which was not surpassed in any other month.

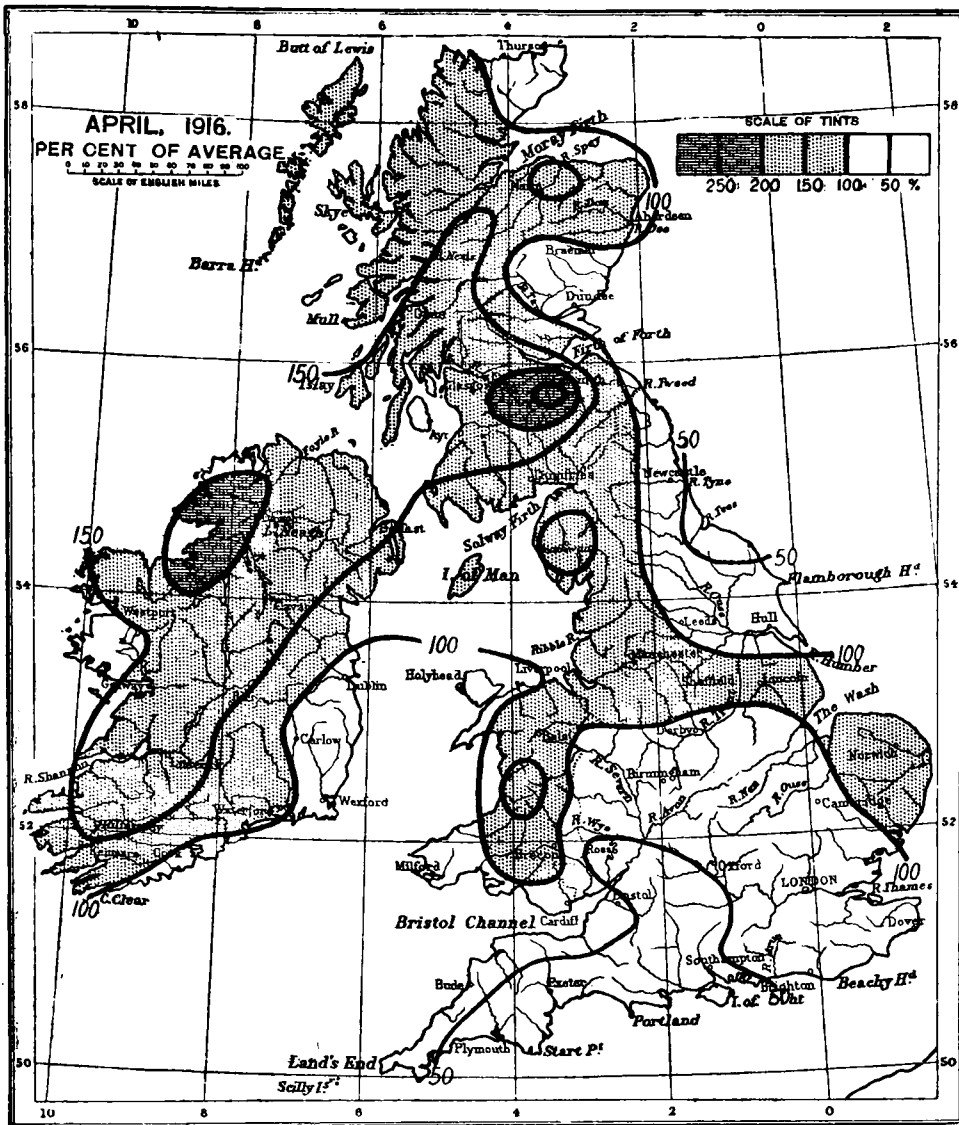


March exhibited an intensification of the common spring distribution of pressure, high in the north and low in the south of Europe, with the result that easterly and north-easterly winds prevailed throughout the month. The normal distribution of rainfall was completely inverted. Except in Scotland, north of the Firth of Tay practically no part of the east coast had less than 3 inches of rain, and a broad belt right up the centre of England had more than 4 inches. In the west of Scotland considerable areas had less than 2 inches of rain and some localities less than 1 inch, and such rain as fell towards the west coast obviously came with easterly winds. About half of Ireland had less than 2 inches of rain and only small patches more than 3 inches.



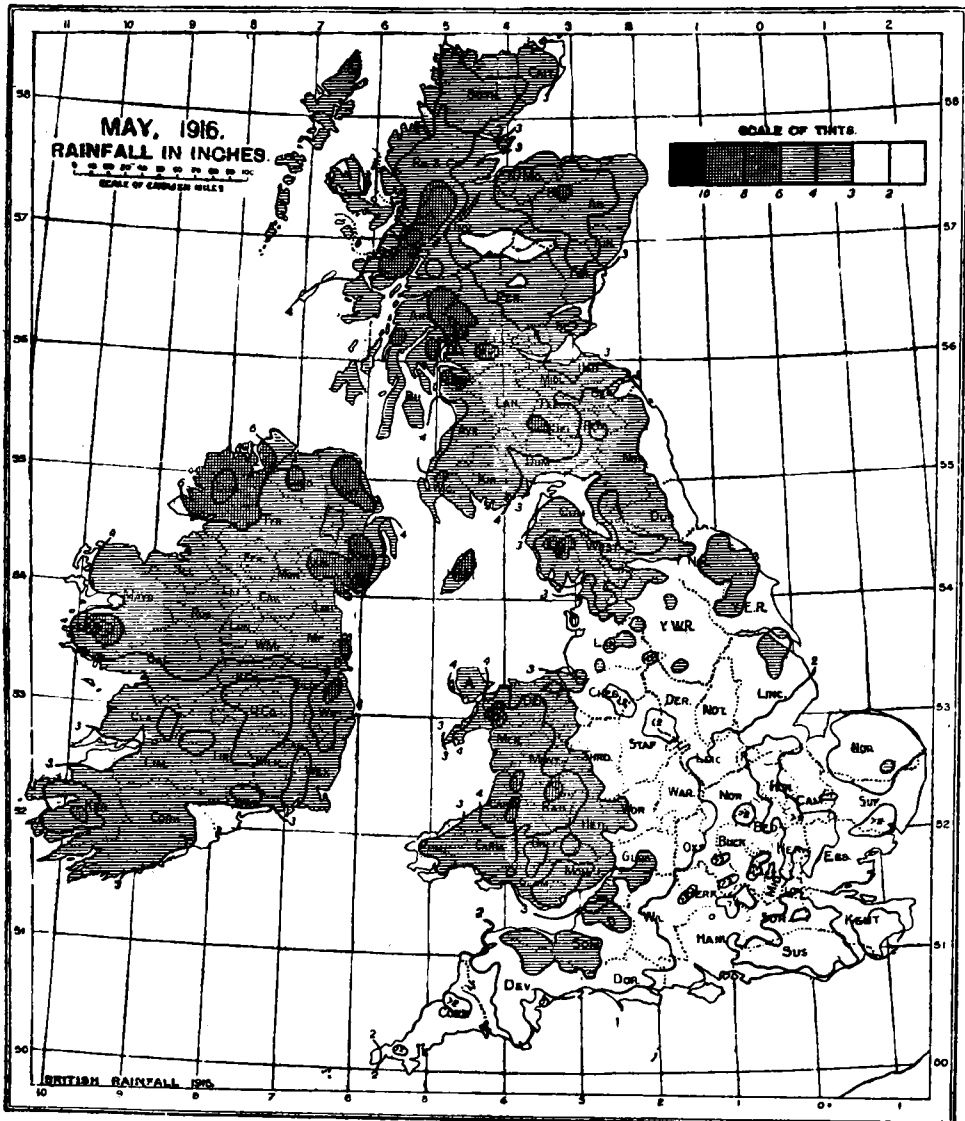
The west of Scotland, from Skye to the Solway, had less than half the average rainfall and this drought extended to the English Lake District. Part of the east of Scotland had an excess of more than 50 per cent., and a very large area of the east and centre of England had an excess of 100 per cent., while in Oxford and Bucks the excess was greater than 200 per cent. Almost the whole of Wales and Ireland were below the average.

In Scotland, with a general deficiency of 30 per cent., this month was the driest, except September. Ireland had a deficiency of 27 per cent., and Wales of 6 per cent., but England showed an excess of 58 per cent., the month being the wettest, except February. The British Isles, as a whole, had very nearly the average, there being an excess of 2 per cent.

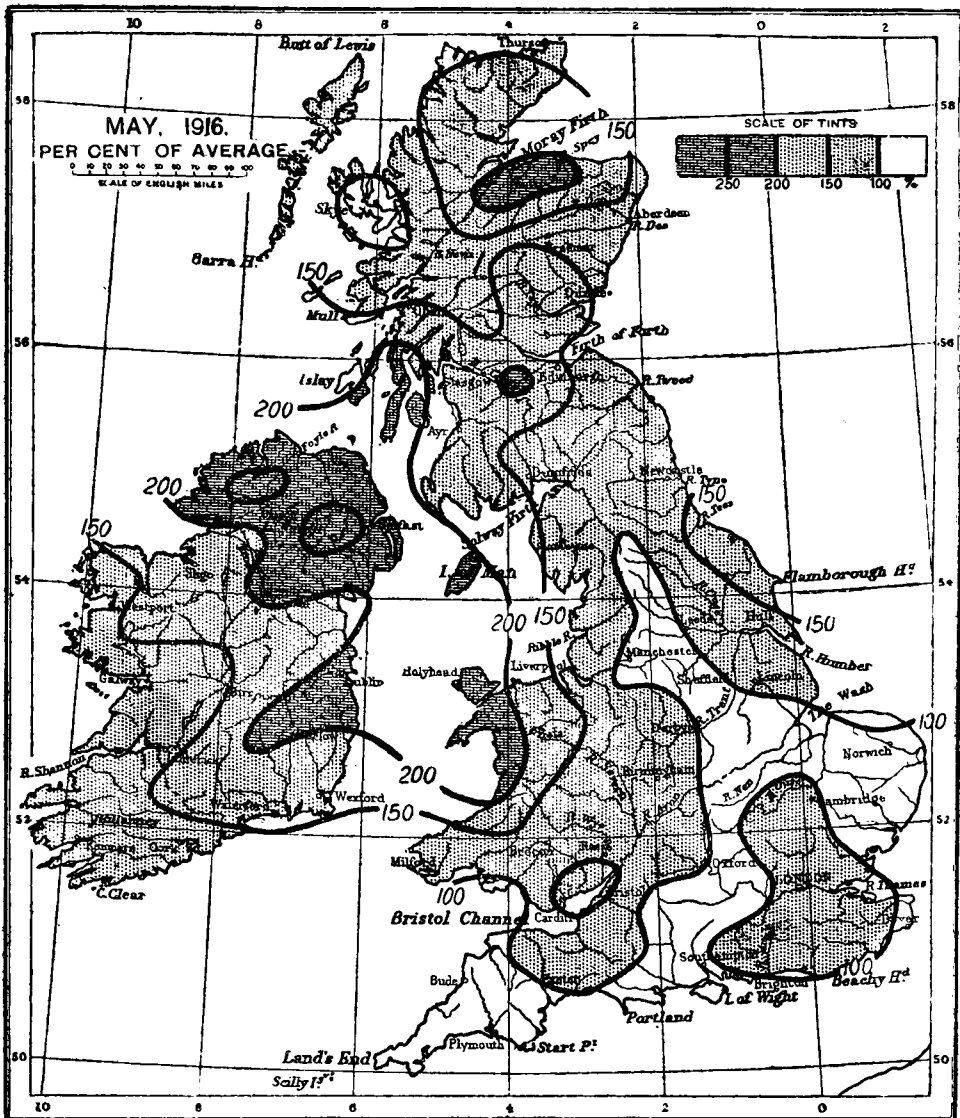


rainfall, and so had the Midlands and the South, south of Nottingham. A large tract, from the south of Cornwall to the Isle of Wight and northward to Gloucester, had less than half the average fall. An excess greater than 50 per cent. prevailed over the west and north of Ireland and the south-west and centre of Scotland, culminating in two tracts with more than twice the average rainfall in Sligo and Donegal in the one case, and to the south of the Firth of Forth in the other.

The general rainfall of England showed a deficiency of 17 per cent., Wales was nearly normal, with an excess of 2 per cent., but Scotland had an excess of 38 per cent., and Ireland of 51 per cent., resulting in an excess for the whole of the British Isles of 17 per cent.



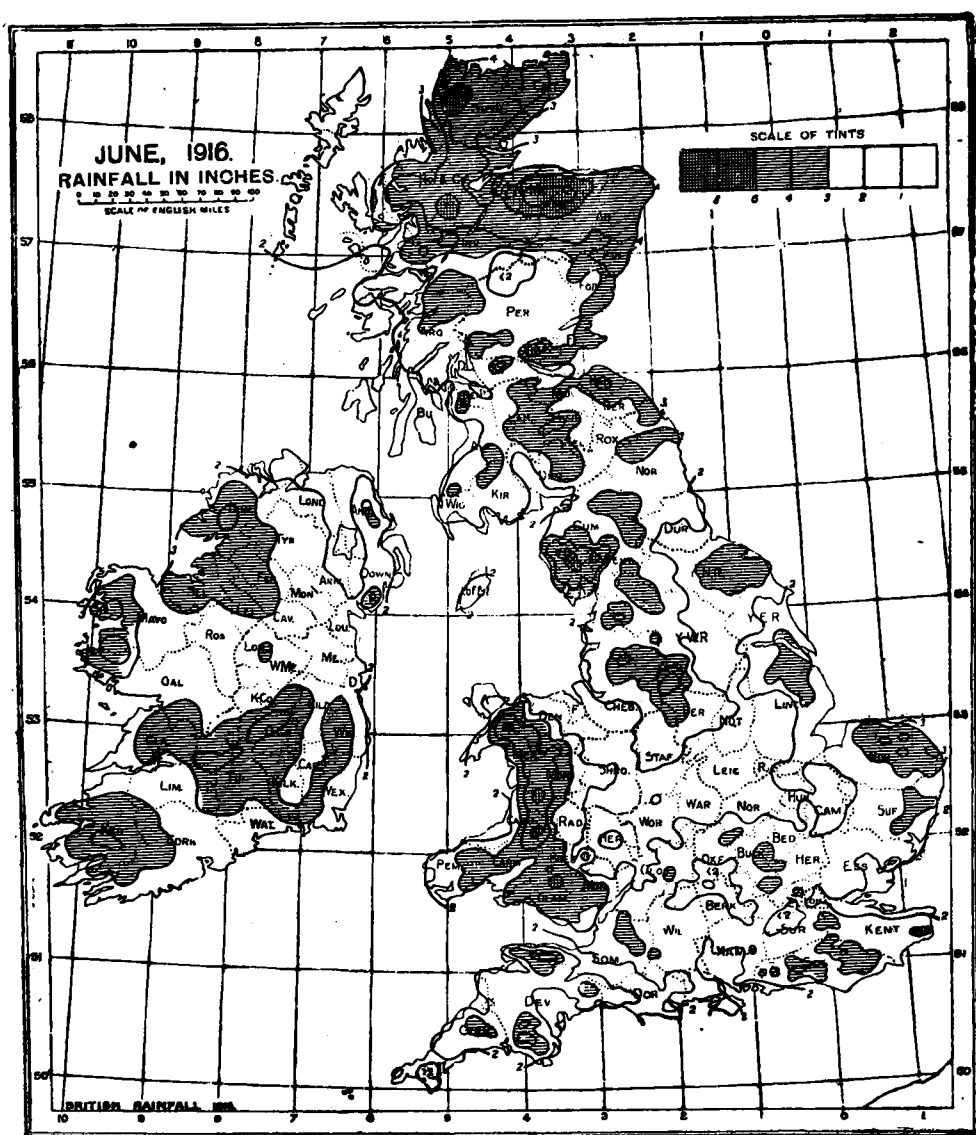
May had rather more than its normal share of easterly wind, but most of its rainfall was associated with the passage of cyclonic depressions, which led to many falls in the north of Ireland and west of Scotland, or to thunderstorms, which yielded a light but extraordinarily patchy fall throughout England. More than 4 inches fell in the centre of Wales and on an apparently continuous belt from the middle of Ireland to the north of Scotland, within which a number of areas had more than 6 inches, and in Mayo, Donegal and West Inverness, more than 8 inches. Falls of 10 inches were reported from three isolated stations. In England the rainfall reached 3 inches over a fairly wide area in the north and in a series of diminishing patches southward.



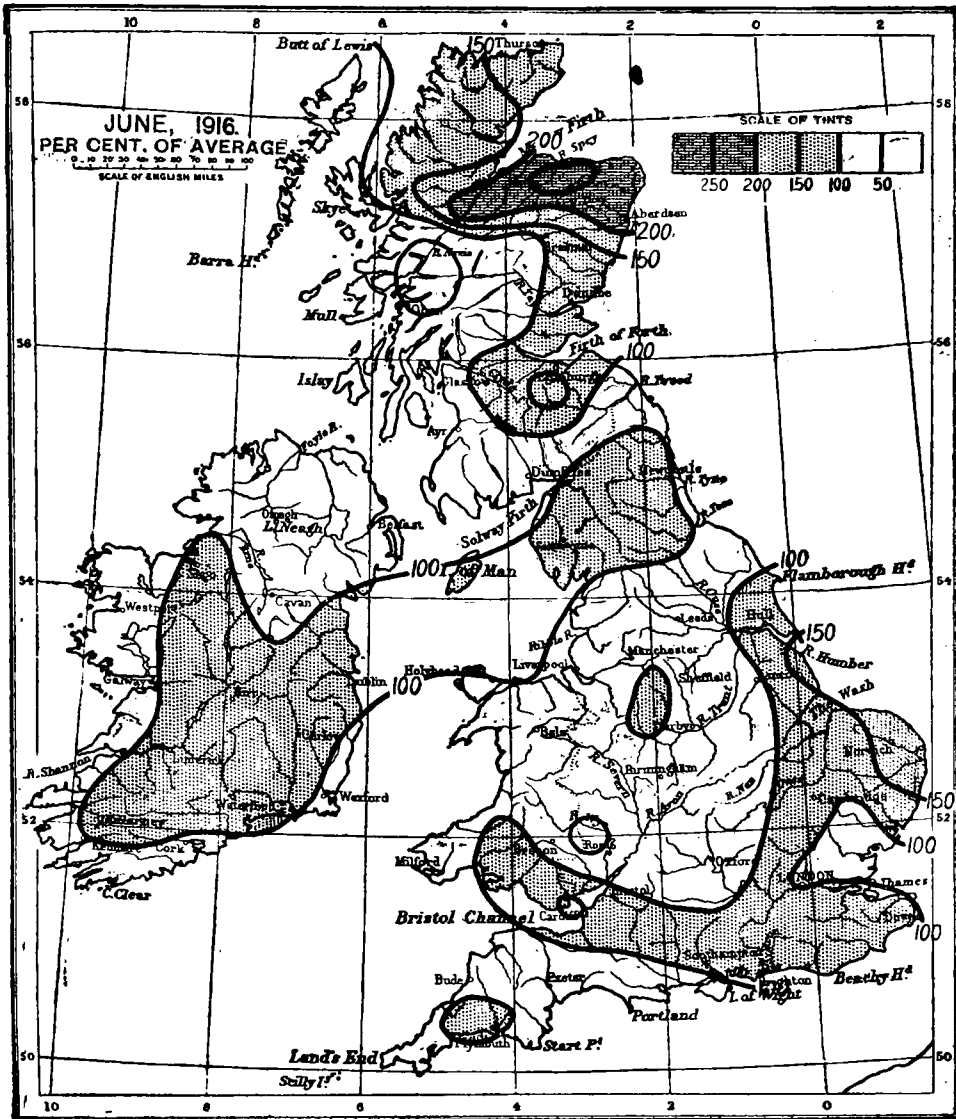
In scarcely any part of Scotland was the fall less than 3 inches.

The rainfall was below the average only in Cornwall and Devon, and in an irregular belt running northward from Hampshire to Yorkshire and thence south-eastward to Essex. The excess of rainfall was greater than 100 per cent. around the northern part of the Irish Sea, in the east and north of Ireland, and the west of Wales and Scotland. An equal excess occurred on the south shore of the Moray Firth.

All divisions of the country showed an excess, only 8 per cent. in the case of England, but 52 per cent. for Wales, 51 per cent. for Scotland, and 82 per cent. for Ireland. The British Isles, as a whole, had an excess of 43 per cent., greater than in any month, except October and February.



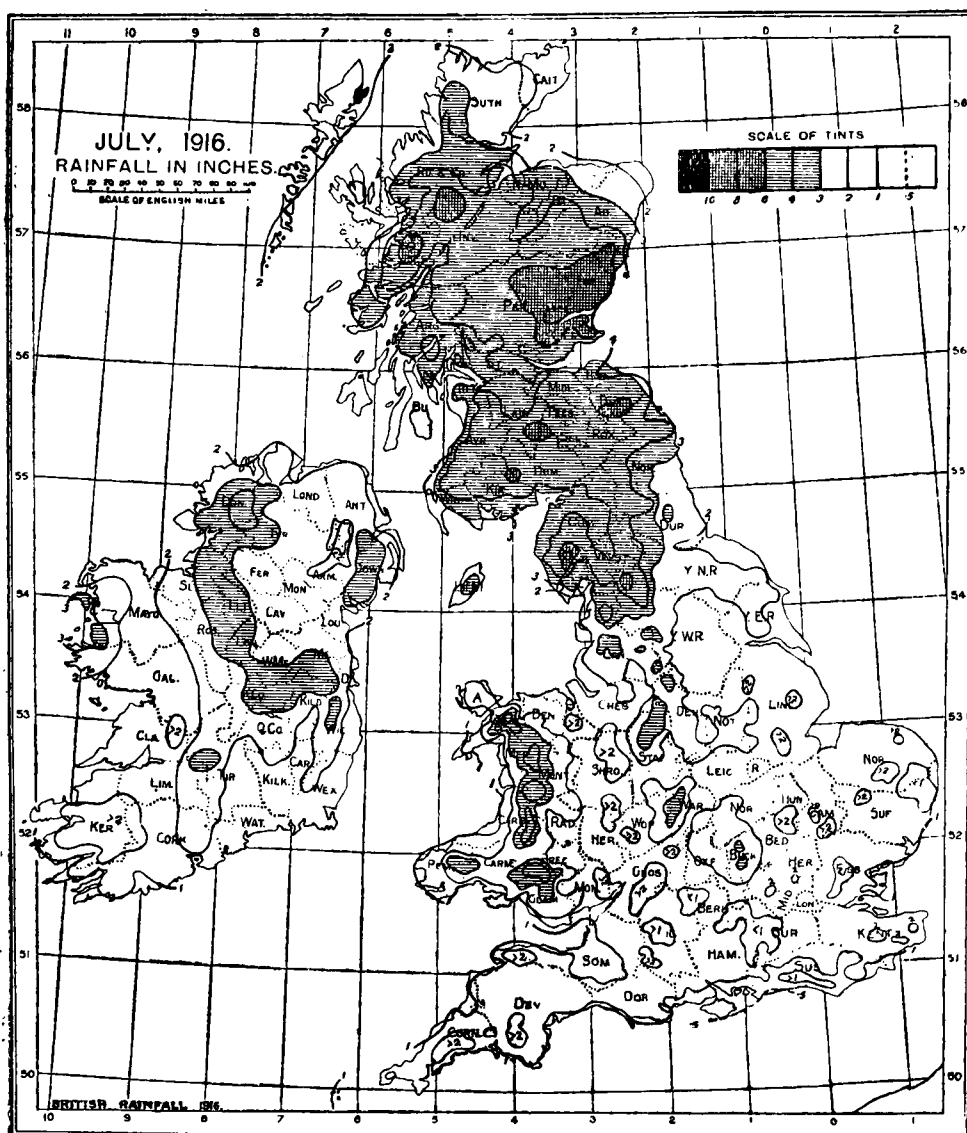
June was signalized by a unusually low temperature and deficient sunshine associated with much east wind and the movement of several depressions through the North Sea ; the result was to give high rainfall on the east coast, which was specially marked on the south shore of the Moray Firth, where parts of Nairn, Moray and Banff had more than 8 inches, being wetter than any part of the west of Scotland. Isolated patches of 6 inches occurred in the north-west of Scotland, the Lake District and Wales. Rainfall less than 2 inches was uncommon, but appeared at intervals round the Irish Sea, and along the west coast of Scotland. A broad irregular belt meandered across central England from the Mersey estuary to the Tees, and narrow strips ran inland from the Thames estuary,



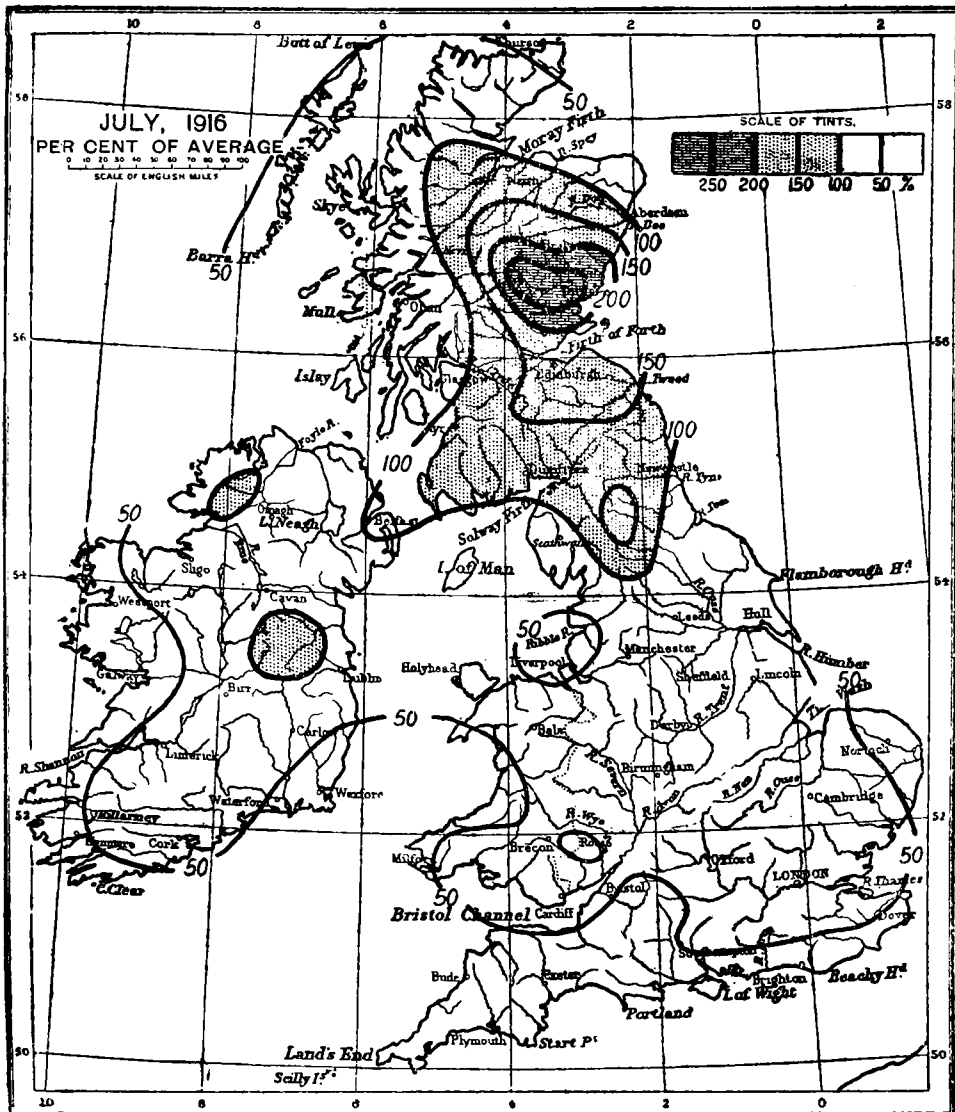
Southampton Water, and the Dorset coast. In Ireland few places had less than 2 inches and fewer more than 4 inches.

The greater part of England, Wales and Ireland varied but little from the average. The best marked contrast was that between the east and west of Scotland, a patch showing an excess of more than 150 per cent. in Banffshire, contrasting with one showing a deficiency of 50 per cent, in the north of Argyll.

The large divisions were closer to the average than in any other month. England had an excess of 2 per cent., and Scotland of 8 per cent., Wales had a deficiency of 2 per cent., and Ireland of 5 per cent., the British Isles, as a whole, being nearly normal, with an excess of 2 per cent.



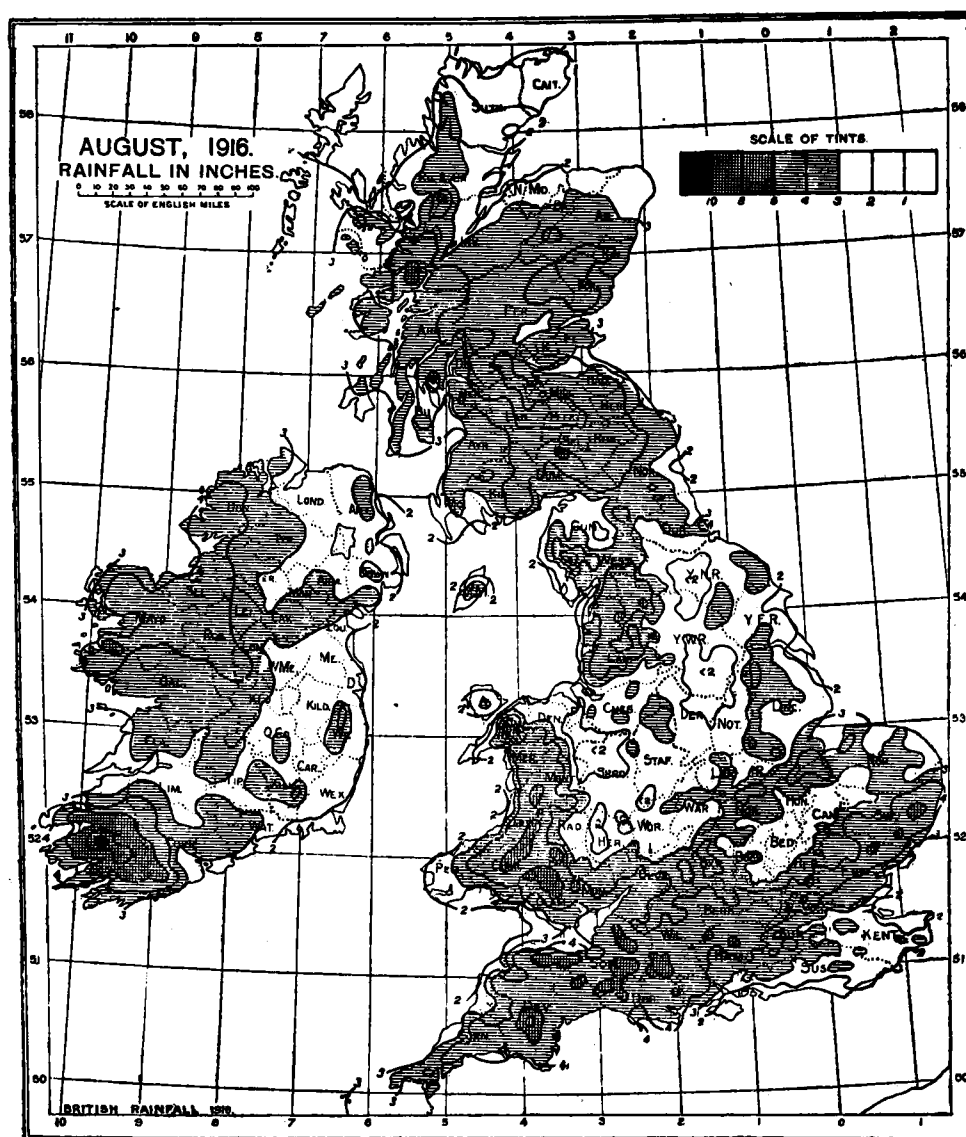
July was cold and gloomy over most of the country during the first half, and the rainfall was dominated by a depression which passed north-eastward on the 7th and 8th, with heavy rain in the east of Scotland, which, with the exception of the extreme north of England and the centre of Wales, was the only part with as much as 4 inches of rain. More than 6 inches fell at several points in Scotland, especially round the Firth of Tay and northward almost to the border of Aberdeenshire. Close to Perth more than 8 inches of rain fell. The Outer Hebrides and the extreme north of Scotland had less than 2 inches of rain, and the greater part of England had less than that amount, diminishing to less than 1 inch in isolated patches in the south, and touching half an inch



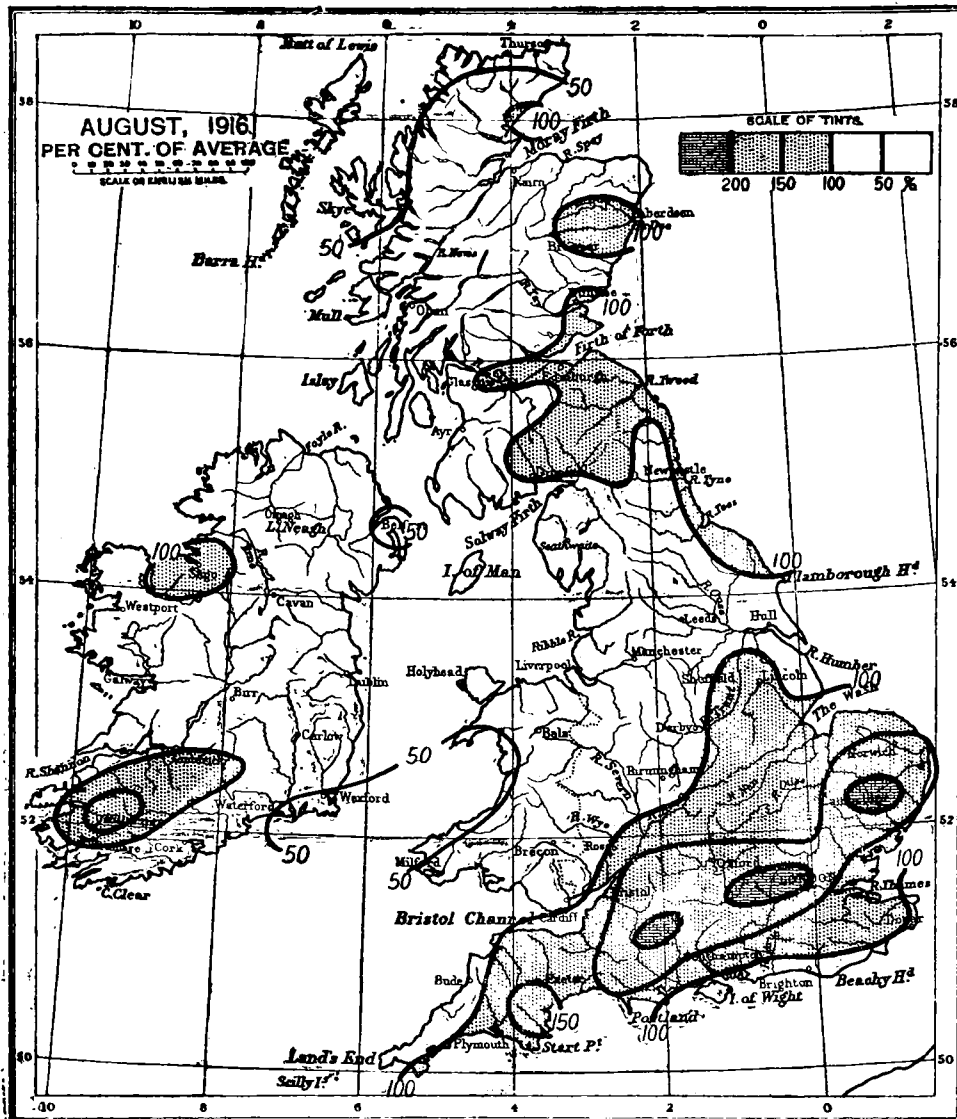
on the extreme south coast. Most of Ireland had less than 3 inches.

More than twice the average fell in the east of Scotland, and the proportion fell off with almost perfect symmetry on all sides reaching the average along a line running south of the Moray Firth, east of Loch Lomond, and north of the Solway, while less than half the average fell all round the British Isles, in Caithness, the west of Ireland, the south-east of Ireland, the west of Wales, the south and the south-east of England.

It was the driest month of the year in England and Wales, with deficiencies of 31 and 39 per cent. respectively. In Ireland the deficiency was 32 per cent., September being drier, while in Scotland there was an excess of 17 per cent. The British Isles, as a whole, had a deficiency of 18 per cent.

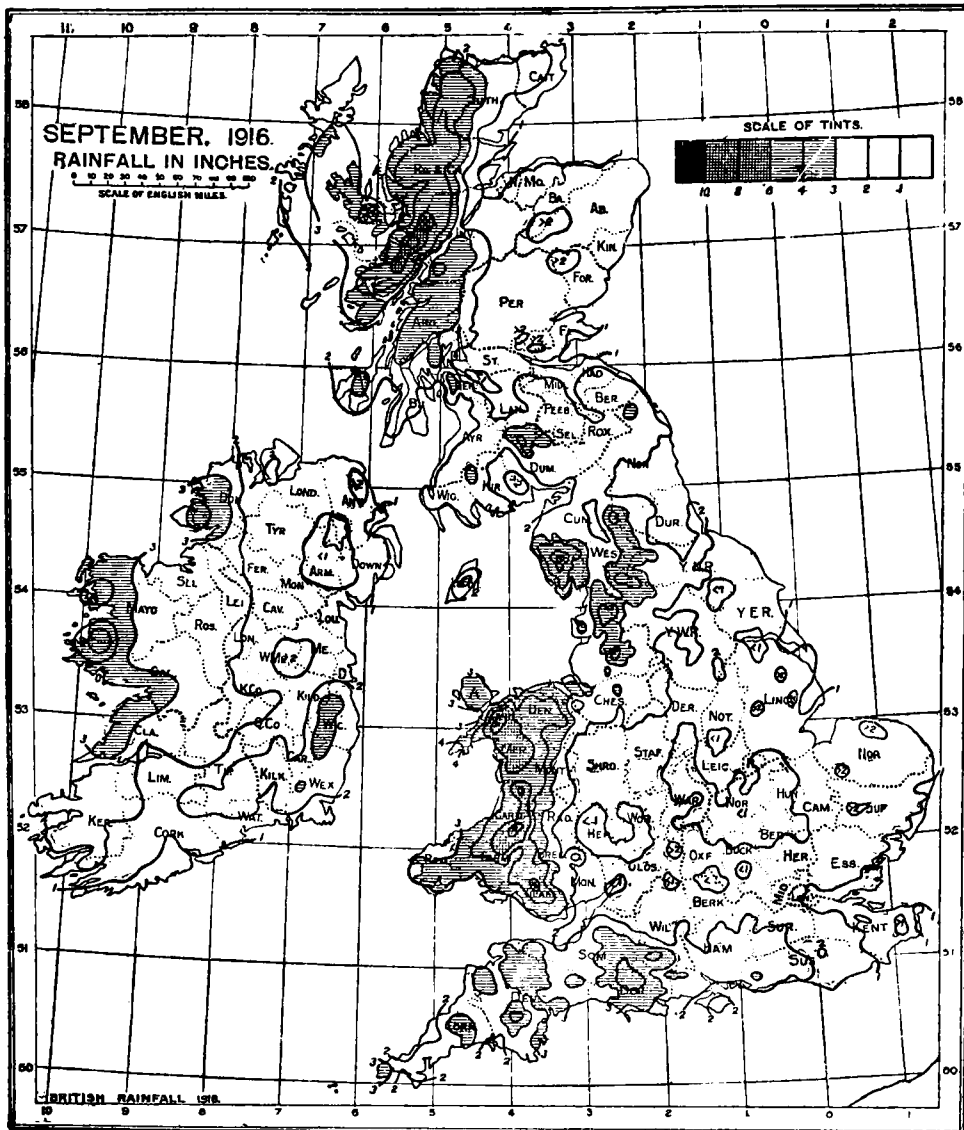


August saw the end of a widespread drought, which terminated on the 12th, after which date a succession of cyclones brought unsettled weather and rain. The dominant feature was the widespread heavy rain of the 29th, which accounts for the extensive strip of more than 4 inches rising in parts to more than 6 inches (and in Dartmoor to over 8 inches) which runs from Cornwall to Suffolk. Equally heavy rain extended through the whole of central Wales and also occurred in the Lake District as well as in the south and west of Scotland and the south-west and north-west of Ireland. Except at intervals along the coasts and at a few inland places between Hereford and Yorkshire, no place had less than 2 inches.



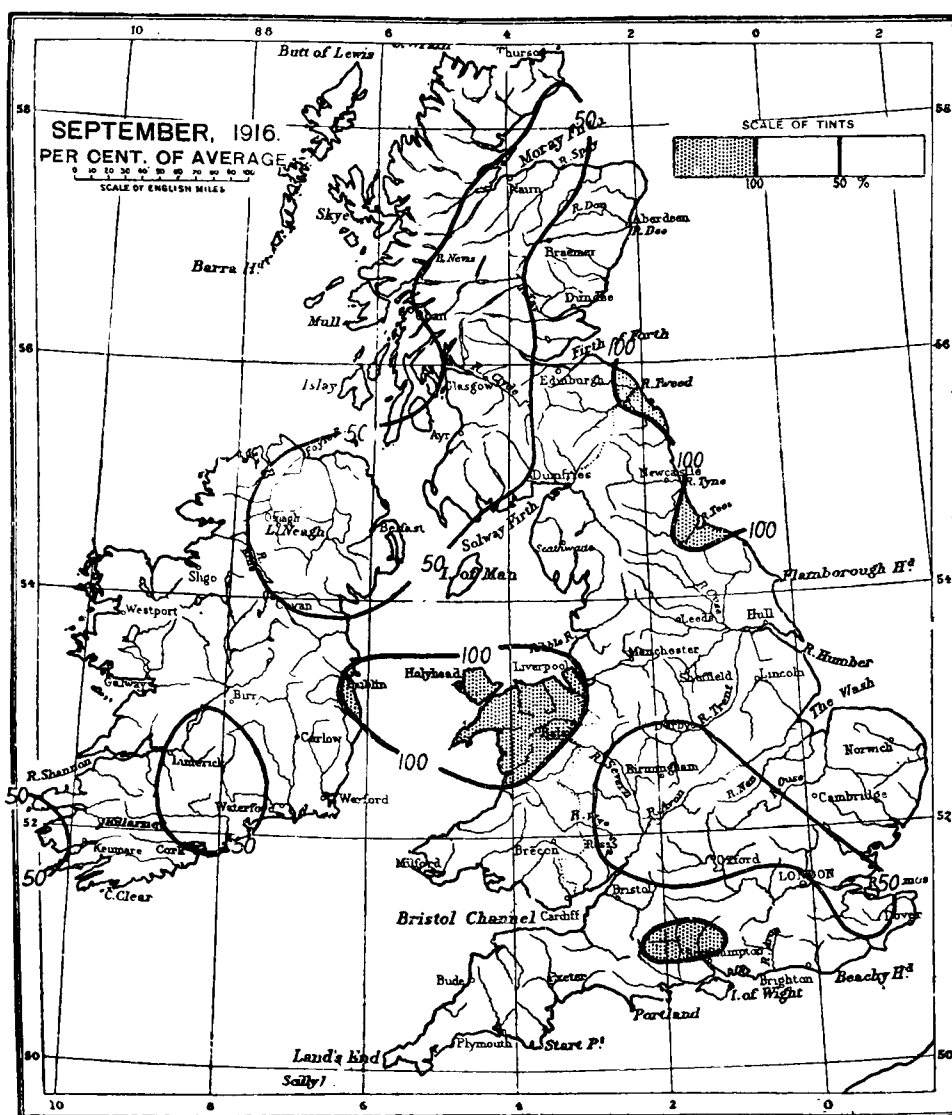
Over most of the British Isles the rainfall was below the average, and there was a deficiency of more than 50 per cent. along the north and west of Scotland and along the west of Wales and at two points in the east of Ireland. The largest area with more than average rainfall spread north-eastward across England from Cornwall, and in the axis of it there were three patches in which the excess was greater than 100 per cent. Other areas of moderate excess occurred in the south and east of Scotland and in the west of Ireland.

The general rainfall of England was 11 per cent. above the average, but all the other divisions were dry, Wales having a deficiency of 31 per cent., Scotland of 20 per cent., Ireland of 16 per cent., and the British Isles, as a whole, of 9 per cent.



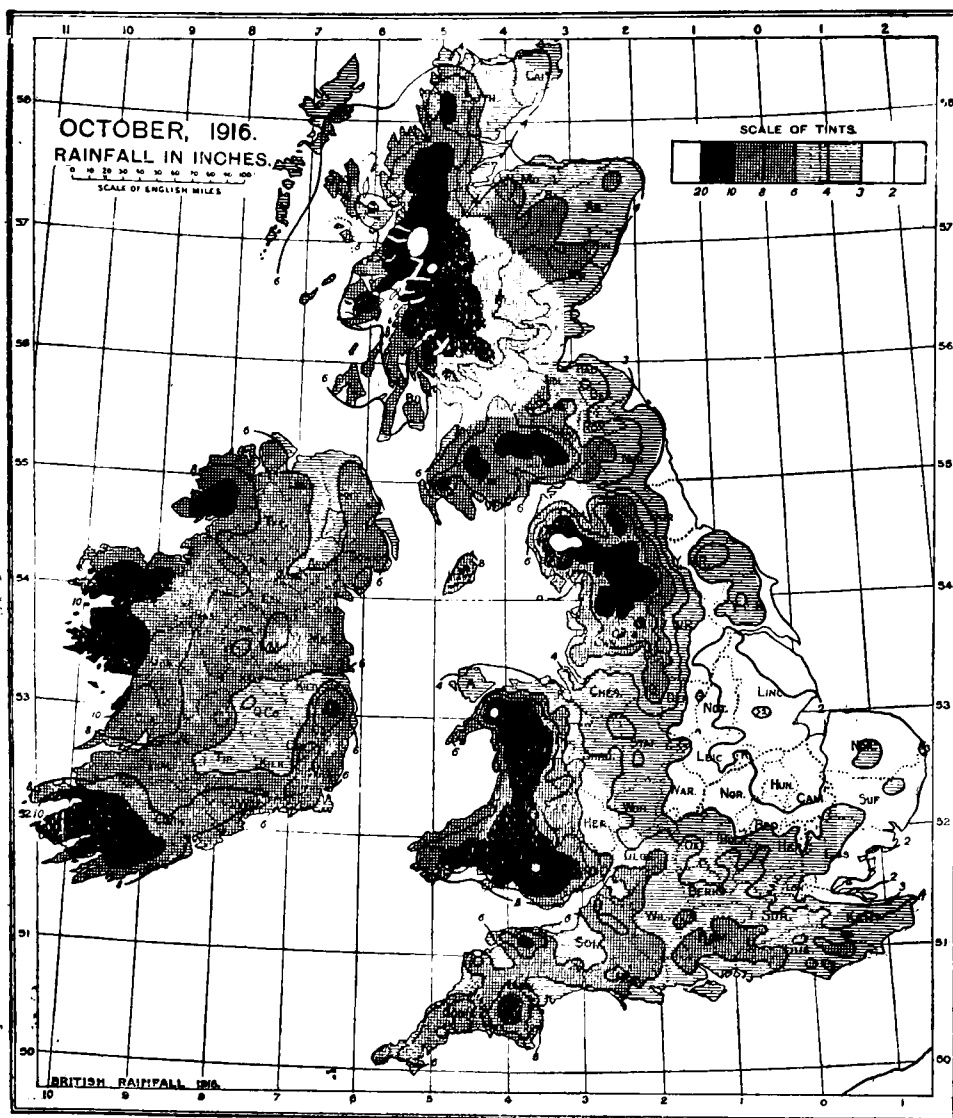
September was relatively the driest month of the year, the only severe and widespread rain which occurred lying to the left of the track of a depression which crossed England on the 3rd from west to east. The rainfall exceeded 3 inches only in the west, where falls of 6 inches and more occurred in Wales, the Lake District, the West Highlands, and in Connemara. By far the larger part of Great Britain and Ireland had less than 2 inches of rain, and there were many isolated patches where less than 1 inch fell, but there was nowhere so little as half an inch.

Rainfall was appreciably above the average only in the north of Wales and along the coasts of Northumberland and Durham, and it fell to less than half the average along the greater part of a broad strip extending

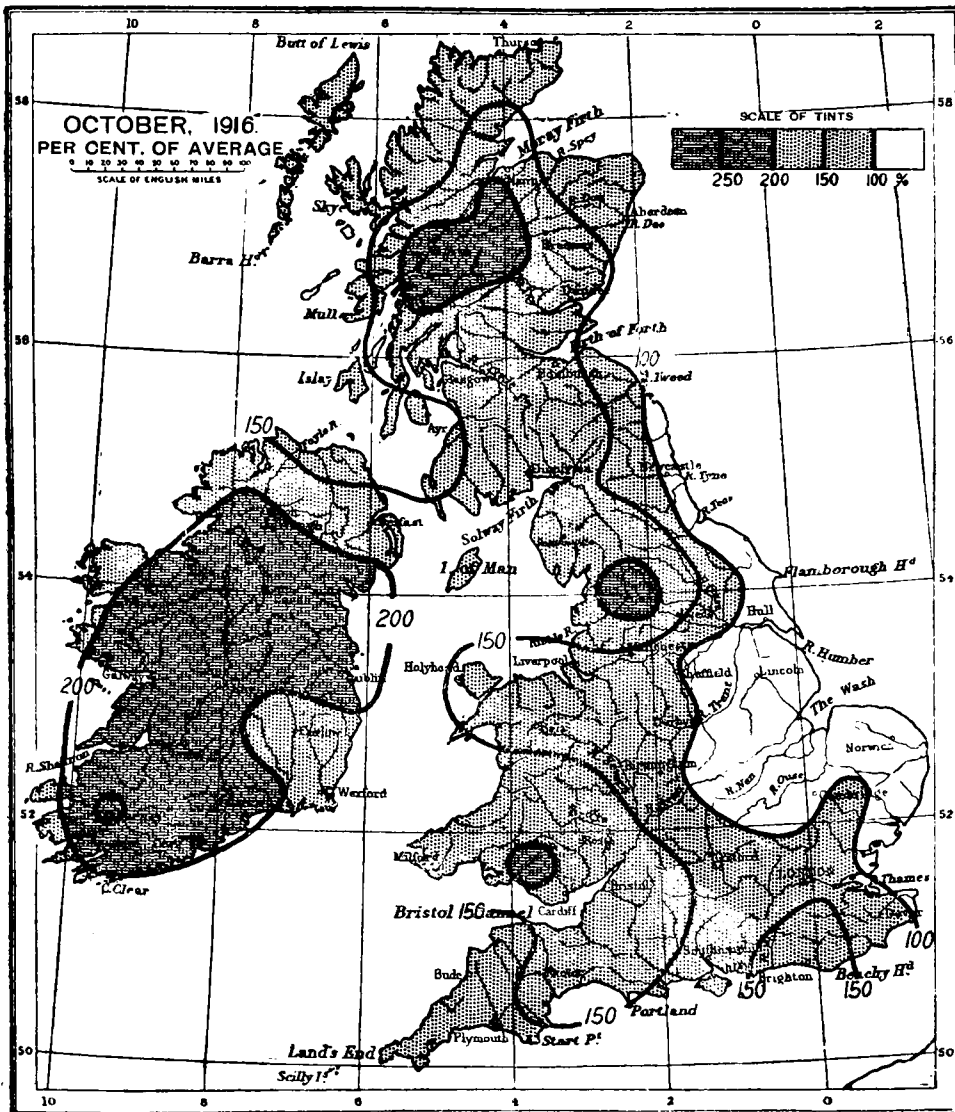


from the south-west of Ireland to the Moray Firth, and also in a large area of the English Midlands, with an extension to the mouth of the Thames. In parts of both these areas rather less than a quarter of the average fell.

Wales was the least dry of the large divisions, having a deficiency of only 9 per cent., England had a deficiency of 28 per cent., being thus almost as dry as in July. Scotland and Ireland were drier than in any other month, the deficiencies being 44 and 43 per cent., respectively, while for the British Isles, as a whole, the month was the driest of the year, with a deficiency of 35 per cent. The tendency of September to be one of the driest months has increased in recent years.

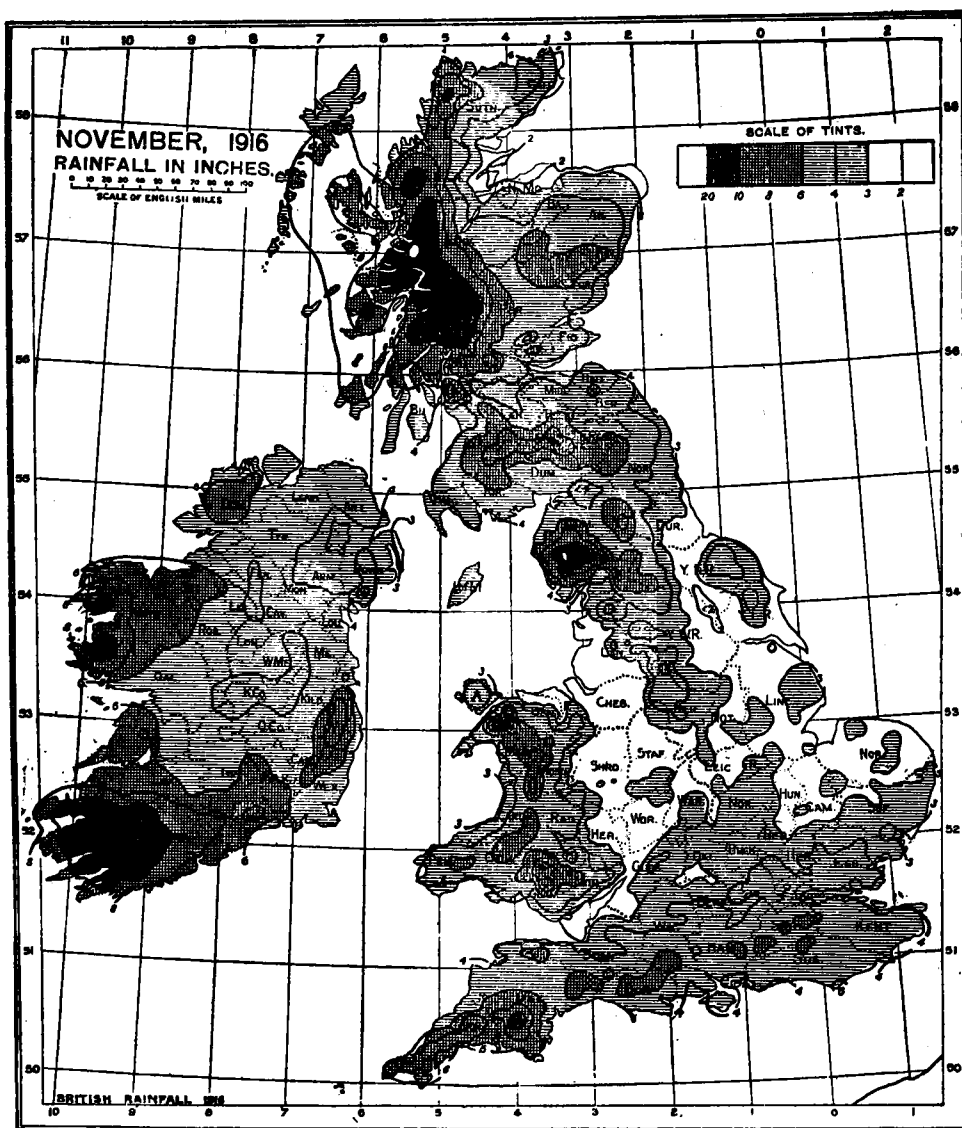


October outdid its reputation as the wettest month of the year, rain in most parts of the country being frequent and heavy as the result of the passage of many depressions. In some parts of Ireland rain fell on 31 days. Less than 2 inches was recorded only in the counties surrounding the Wash and along the Thames estuary, most of the country had more than 4 inches, and very large tracts in England, the greater part of Scotland, and almost the whole of Wales and Ireland, had more than 6 inches. Extensive areas in all four divisions had more than 10 inches of rain, and in South Wales, North Wales, the Lake District, and the West Highlands, more than 20 inches were recorded. In the last named district this was largely due to the unprecedented rainfall of the 11th.

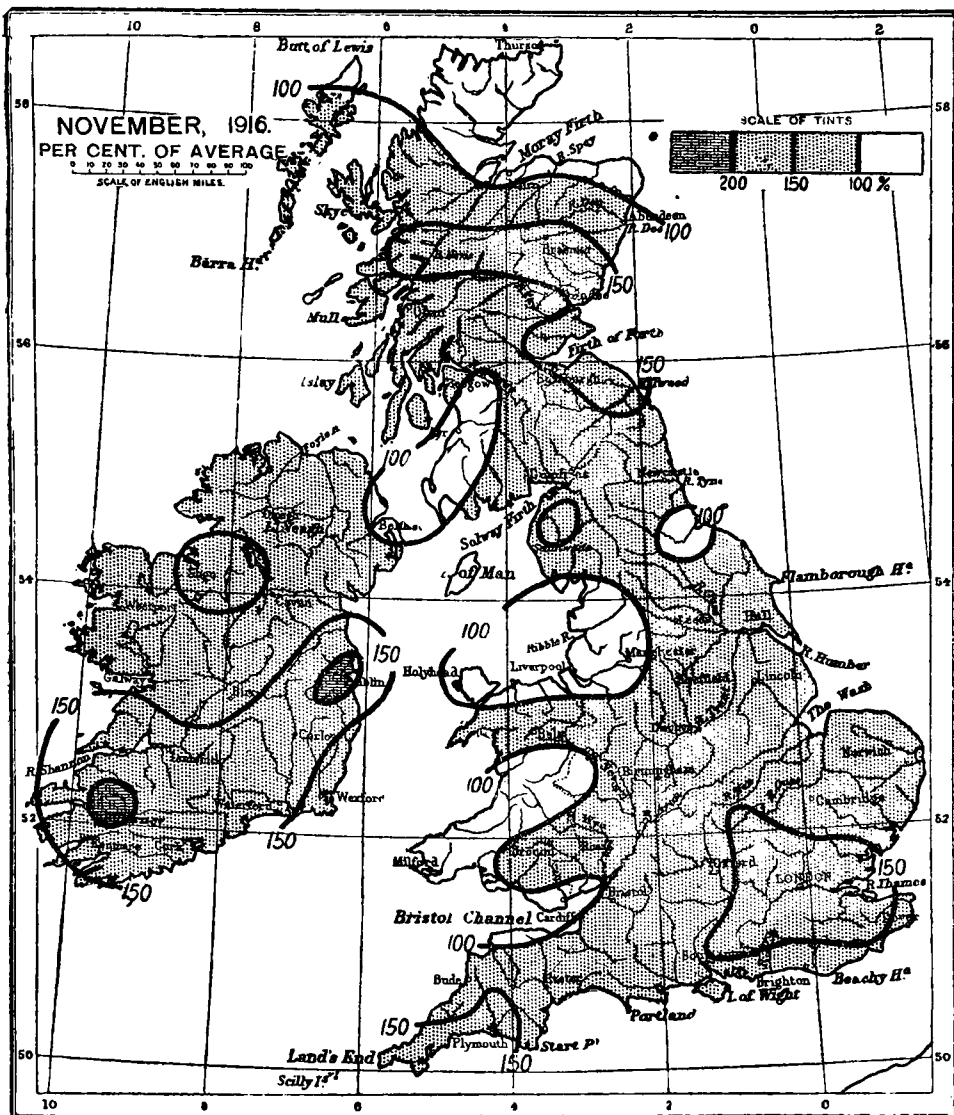


The rainfall was less than the average only in the east of England, and more than twice the average amount fell throughout almost the whole of Ireland, in a small area in South Wales, in the central Pennines, and throughout the West Highlands.

The excess of rainfall in England was 35 per cent., in Wales, 65 per cent., in Scotland, where the month was the wettest of the year, 62 per cent.; but Ireland had the unenviable distinction of a general rainfall more than twice the average, the excess being 106 per cent.; for the British Isles, as a whole, the excess was 62 per cent., the month ranking second only to February for wetness, relative to the average, while the actual rainfall was much greater.

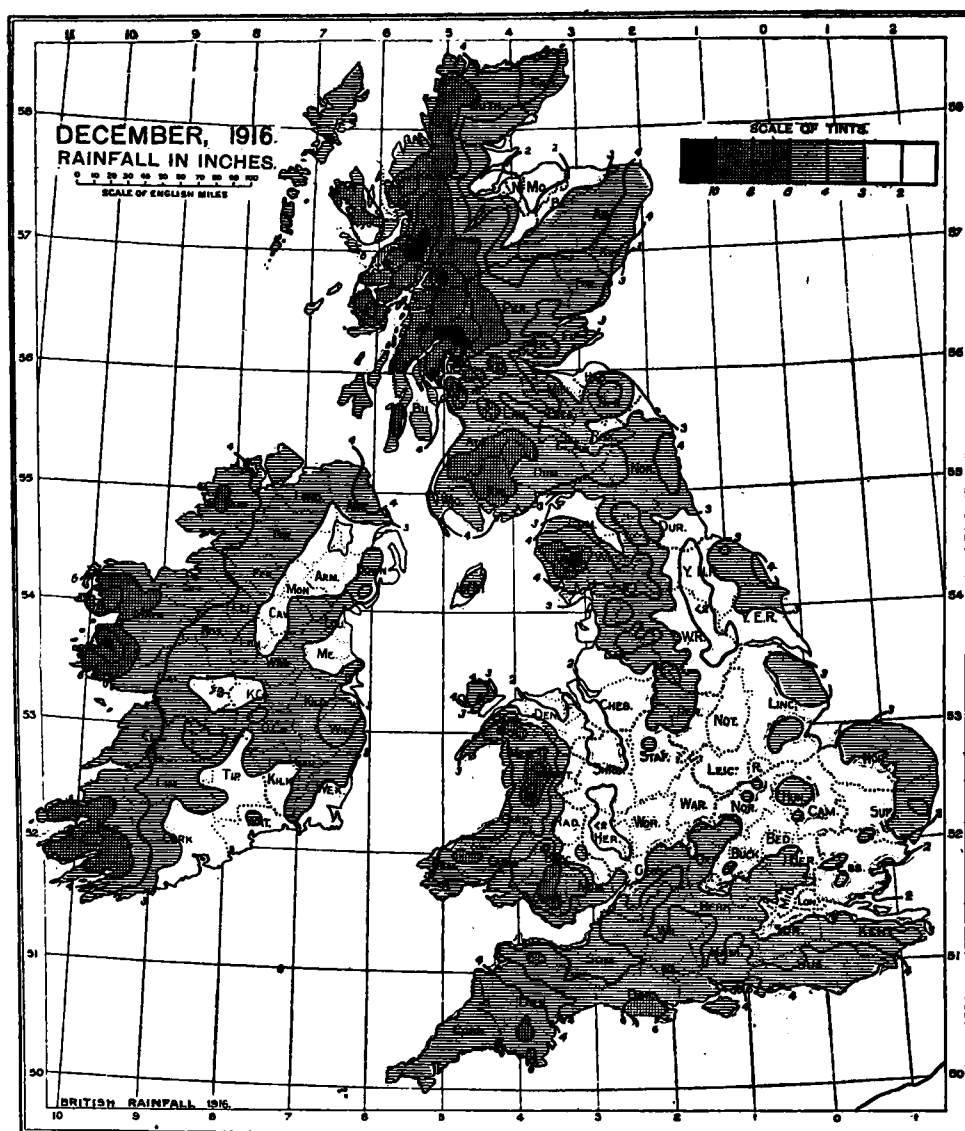


November was very stormy and the distribution of rainfall closely resembled that of October, large areas having more than 10 inches in the south-west and west of Ireland, the Lake District, and the west of Scotland, though the fall was generally lighter than during October especially in Wales. Very heavy falls for the locality occurred in the south of England, where more than 4 inches fell from Cornwall to the mouth of the Thames, culminating in a series of areas with more than 6 inches which occurred in all the southern counties. More than 6 inches also fell in Scotland as far east as Kincardineshire and Haddingtonshire. The only parts of the country with less than 2 inches were round the Moray Firth and in the Vale of York.

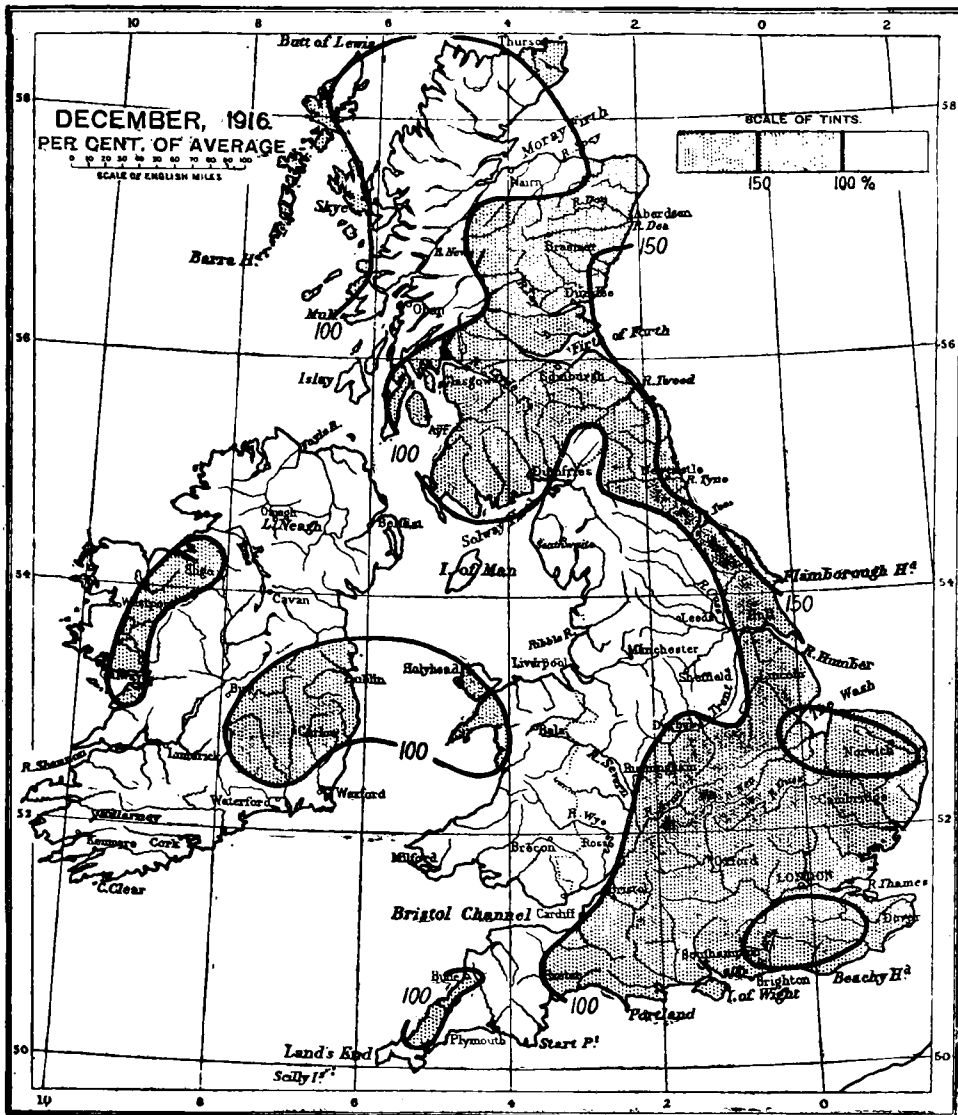


The rainfall was below the average in the north and in the south-west of Scotland and throughout the greater part of Wales and Lancashire, Over the rest of the country the rainfall was excessive, the excess being greater than 50 per cent. round London, in the south of Cornwall, in the east and centre of Scotland, and markedly so in the south of Ireland, where Cos. Kerry and Dublin had more than twice the average fall.

Except in Wales, where there was a deficiency of 4 per cent., the whole country showed large excesses. In England and Scotland, 31 per cent., and in Ireland, 45 per cent., while the British Isles as a whole, had 30 per cent. more than the average.



December was dull and foggy, but had much less rain than the two preceding months. This was especially noticeable in the west where the areas with more than 10 inches were very small, and 6 inches fell over considerable areas only in the west of Ireland and Scotland though there were small patches in Wales, the Lake District and the south-west of England. The rainfall was less than 2 inches in Morayshire and round the estuaries of the Thames and Mersey, in the Vale of York, in Shropshire and Herefordshire. Falls exceeding 4 inches were again prevalent over the southern tier of counties in England, and occurred also at intervals along the east coast of Great Britain.



Except for the south-western counties of Scotland and narrow strips in the west of Ireland and the north-west of Wales, it may be said generally that the rainfall was decidedly below the average in the west both of Great Britain and Ireland, and even more decidedly above the average in the east, where at many points on the coasts of Scotland and England the excess was greater than 50 per cent.

England and Scotland were very close to the average in rainfall, showing excesses of only 5 and 2 per cent. respectively, while Wales had the large deficiency of 23 per cent. and in Ireland the rainfall was 12 per cent. below the average; the British Isles, as a whole, showed a deficiency of 3 per cent.

TABLE I.—*Monthly Rainfall in 1916: 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 ..	71	208	275	75	107	96	65	233	74	119	200	120	136
II.	Tenterden, View Tower	54	258	168	76	110	116	50	119	40	141	159	151	122
"	Edenbridge, Falconhurst	71	253	196	88	143	148	80	147	65	152	175	151	140
"	Arundel, Patching	57	244	232	53	103	140	31	74	82	156	135	176	125
"	Fawley, Cadland	56	220	163	36	62	96	34	104	88	132	130	123	106
III.	Basingstoke, Sherborne St. John	69	234	202	43	74	100	51	195	90	139	131	122	123
"	Royston, Therfield	63	243	251	80	142	128	67	106	39	93	144	130	119
"	Oxford, Magdalen College	77	222	350	53	101	71	65	156	37	123	131	133	120
"	Wellingborough, Swanspool ..	83	189	263	57	97	79	54	119	25	78	150	121	106
IV.	March	82	221	198	77	99	122	55	126	92	72	111	156	112
"	Shoeburyness	56	240	290	86	109	97	60	115	48	89	166	117	117
"	Bury St. Edmunds, Westley ..	88	273	199	102	88	100	72	203	97	105	136	135	130
"	Geldeston	98	256	194	124	83	198	32	166	70	87	113	154	124
V.	Holkham Hall	104	201	157	130	120	150	45	124	94	79	137	145	119
"	Bishops Cannings	57	212	172	37	76	98	41	171	55	171	126	127	114
"	Everahot, Melbury House	44	179	134	27	100	71	45	182	98	197	146	108	118
"	Ashburton, Druid House	55	224	113	41	73	97	34	154	92	159	148	77	110
"	Barnstaple	43	241	137	56	97	83	48	126	73	114	98	72	99
"	Falmouth Observatory	52	227	173	56	64	88	47	99	53	142	176	112	113
"	Altarnon	62	199	97	50	63	113	32	92	79	129	134	95	99
VI.	Litton, Sherborne Reservoir ..	99	223	172	70	143	121	42	156	93	189	124	135	132
"	Stroud, Field Place	74	204	173	40	148	75	68	160	44	170	103	134	117
"	Church Stretton, Wolstaston ..	55	234	129	70	114	93	63	81	49	147	94	69	99
"	Malvern, Church Street	58	262	235	65	145	73	84	103	50	140	105	101	115
"	Ryton-on-Dunsmore	72	194	235	59	101	94	73	99	36	79	139	119	104
VII.	Belvoir Castle	59	252	245	69	94	67	71	143	60	61	119	98	106
"	Revesby	49	188	297	114	94	138	81	99	95	70	141	130	118
"	Lincoln, Skellingthorpe Hall ..	39	251	203	115	127	71	67	135	77	63	140	106	112
VIII.	Mickleover Manor	89	289	266	92	111	66	79	74	45	120	146	107	116
"	Middlewich, Bostock Hall	65	201	102	123	99	92	70	98	87	113	84	80	98
"	Chatburn, Middlewood	114	138	83	130	114	95	80	78	77	229	84	80	108
"	Southport, Hesketh Park	51	143	99	129	115	93	36	95	83	155	83	81	96
IX.	Sheffield, Redmires Reservoir ..	87	232	219	106	96	94	63	57	70	98	129	99	110
"	Arncliffe Vicarage	120	156	87	102	84	90	104	89	91	208	104	61	110
"	Goldborough Hall	53	201	202	64	116	89	58	73	92	134	113	86	105
"	Hull, Pearson Park	35	192	201	62	141	146	69	90	60	89	115	118	108
"	Scarborough, Osgodby	50	146	159	52	165	90	82	109	63	82	126	166	108

TABLE I.—*Monthly Rainfall in 1916 : the Average, 1875–1909, being taken as 100—(continued).*

Div.	Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
X.	Darlington, Cleveland Parade...	27	169	224	45	160	113	88	97	103	94	82	100	106
"	Newcastle, Town Moor	55	168	173	73	137	100	101	100	71	86	129	168	113
"	Rothbury, Cragside	95	157	174	62	103	103	126	91	92	87	141	125	113
"	Carlisle, Spital Cemetery	146	166	99	128	139	137	139	60	74	153	147	96	121
"	Borrowdale, Seathwaite	170	117	30	173	113	104	74	61	70	181	153	67	111
XI.	Appleby, Castle Bank	163	171	115	133	101	113	171	98	68	187	124	70	127
"	Abergavenny, Larchfield	40	186	160	41	140	49	40	90	56	177	132	75	102
"	Ystalyfera, Wern School	116	191	49	119	102	129	65	76	93	218	123	72	102
"	Cardiff, Ely	96	192	128	78	157	168	75	69	88	184	78	81	114
"	Haverfordwest	66	154	70	77	111	79	56	61	72	170	88	84	93
"	Aberystwyth, Gogerdan	85	157	83	154	218	94	41	45	102	157	67	99	103
"	Birmingham W.W., Tyrmynydd ..	77	169	82	149	126	89	67	84	78	169	87	51	101
"	Wrexham, Pack Saddle Res. ..	55	163	157	104	159	80	77	63	117	135	136	70	108
"	Llandudno	40	175	90	88	194	101	54	64	113	109	81	59	94
"	Holyhead	67	164	81	78	214	76	81	67	113	116	80	119	102
"	Douglas	83	107	55	139	237	111	64	94	69	179	106	80	108
XII.	Auchencairn, Torr House	129	154	45	134	155	79	99	87	57	167	110	126	112
"	Drumlanrig Castle	157	151	52	151	145	62	117	126	37	191	124	127	123
"	Hawick, Branxholme	149	163	123	111	143	88	134	119	83	182	141	84	128
XIII.	North Esk Reservoir	150	199	126	278	164	179	166	92	65	192	119	125	148
"	Marchmont House	93	196	167	118	122	87	176	120	100	111	167	138	133
XIV.	Airdrie, Hillend Reservoir	134	182	79	202	214	135	116	107	45	173	106	122	130
"	Girvan, Pinmore	118	126	35	155	158	88	129	76	45	139	93	111	104
"	Loch Thom	157	138	48	142	170	72	72	75	47	165	132	118	112
XV.	Lochgilphhead, Poltalloch	165	187	43	194	228	62	75	89	70	180	137	90	123
"	Islay, Eallabus	119	145	50	157	194	57	66	69	67	145	121	95	105
"	Mull, Quinish	106	125	24	116	137	65	75	78	62	134	138	101	98
XVI.	Loch Leven Sluices	143	141	126	120	153	118	195	80	52	167	175	115	132
"	Balquhiddy, Stronvar	169	154	37	152	131	60	103	48	23	171	137	92	110
"	Blair Atholl	147	171	44	85	175	82	254	92	49	218	173	116	137
"	Dundee, Eastern Necropolis	92	118	156	74	182	140	264	118	73	161	148	143	143
XVII.	Fettercairn, The Burn	86	119	126	90	135	129	238	93	46	167	160	157	131
"	Braemar	150	224	157	94	102	100	173	102	64	171	162	120	137
"	Aberdeen, Cranford House	39	76	82	114	145	226	111	119	67	128	110	121	111
"	Gordon Castle	105	132	94	156	210	285	100	82	43	114	100	74	118
XVIII.	Glenquoich	216	134	48	148	104	52	86	53	70	217	155	84	121
"	Drumnadrochit	196	213	80	151	194	210	136	62	45	174	106	103	137

TABLE I.—*Monthly Rainfall in 1916: the Average, 1875–1909, being taken as 100—(continued).*

Div.	Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
XVIII.	Inverness, High School	153	175	71	144	207	212	140	67	35	213	97	76	129
"	Fort William, Atholl Bank	165	152	33	150	109	49	59	69	38	221	156	65	110
"	Loch Torridon, Bendamph	178	139	40	126	102	133	73	49	71	112	123	97	105
XIX.	Stornoway	166	144	78	145	139	84	59	29	68	105	101	88	101
"	Dunrobin Castle	183	122	96	97	163	142	67	112	60	161	73	90	113
"	Wick	121	60	93	89	150	186	49	45	49	118	88	108	94
XX.	Glanmire, Lota Lodge	49	116	62	99	128	91	77	88	33	219	175	51	100
"	Killarney, District Asylum	70	151	43	179	132	111	54	185	64	251	202	71	128
"	Valencia, Glanleam	96	132	48	110	110	81	45	99	43	192	150	95	104
"	Waterford, Brook Lodge	50	146	63	104	166	121	37	42	53	197	162	97	101
"	Nenagh, Castle Lough	85	192	63	160	111	122	56	75	52	216	131	95	111
XXI.	Ennistymon House	95	179	75	161	121	89	47	63	87	227	162	100	117
"	Gorey, Courtown House	46	170	151	84	161	89	34	65	96	197	143	87	110
"	Abbey Leix, Blandford	64	171	87	106	210	116	78	80	61	153	165	126	117
"	Dublin, Fitz William Square	65	184	172	81	224	118	82	94	104	207	219	120	139
"	Mullingar, Belvedere	113	161	105	152	189	100	131	72	63	244	133	95	128
XXII.	Greenore	62	104	83	120	177	110	85	82	44	240	121	69	107
"	Tuam, Gardenfield	101	157	55	171	130	128	37	79	75	205	137	86	112
"	Crossmolina, Enniscroe	106	169	78	173	146	87	56	100	64	202	133	97	118
"	Cong, The Glebe	112	151	69	144	164	81	28	73	69	248	137	100	115
XXIII.	Markree Observatory	96	144	59	237	175	103	85	109	70	203	186	111	130
"	Belturbet, Cloverhill	101	153	51	178	212	96	56	83	51	220	155	89	118
"	Armagh Observatory	116	160	59	175	255	87	56	96	32	191	124	85	116
"	Seaford	67	127	82	103	223	82	92	84	35	202	109	79	106
"	Belfast, Queen's University	94	186	83	180	249	67	102	43	24	194	96	73	111
"	Ballymena, Harryville	87	155	60	189	226	80	71	69	47	168	105	90	109
"	Limavady, Drenagh	86	147	92	164	244	71	85	69	46	142	139	96	111
"	Omagh, Edenfel	108	155	49	185	203	84	59	77	37	201	119	84	110
"	Convoy	106	200	66	227	266	97	116	78	52	205	127	82	129
England (Mean of 43 Stations)		85	199	158	83	108	102	69	111	72	135	131	105	113
Wales (" 9 ")		77	174	94	102	152	98	61	69	91	165	96	77	104
Scotland (" 27 ")		153	148	70	138	151	108	117	80	56	162	131	102	119
Ireland (" 23 ")		87	155	73	151	182	95	68	84	57	206	145	88	115
British Isles (" 103 ")		107	169	102	117	143	102	82	91	65	162	130	97	114

MONTHLY RAINFALL AT 299 STATIONS IN THE BRITISH ISLES DURING 1916.

ENGLAND.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
I.	London	St. Pancras (Camden Sq.)	1.30	3.46	4.67	1.31	1.88	2.19	1.68	5.57	1.48	3.25	4.67	2.55	34.01
II.	Surrey	Warlingham (Redvers Rd.)	1.94	5.76	5.44	1.72	3.49	3.87	1.54	3.39	1.61	5.79	6.94	3.85	45.34
"	"	Haslemere (Hazelhurst) ...	2.67	6.05	5.37	1.22	2.28	2.81	1.18	3.74	3.14	7.29	6.40	4.51	46.66
"	"	Woking (The Grange).....	1.01	4.10	4.82	1.11	1.84	1.73	.97	4.31	1.80	4.31	4.43	2.59	33.02
"	Kent	Tenterden (View Tower)...	1.15	4.90	3.27	1.34	1.82	2.36	1.11	2.87	.89	4.91	4.87	4.19	33.68
"	"	Folkestone (Cherry Gardens)	1.35	3.62	3.74	2.04	2.36	2.72	1.78	2.61	.92	5.17	4.84	4.23	35.38
"	"	St. Peter's Court	1.11	3.70	2.78	1.53	1.86	1.54	1.29	2.20	1.04	4.26	3.26	2.46	27.03
"	"	Ospringe (Lorenden) ...	.91	3.89	4.51	1.50	1.86	1.88	1.77	1.83	.87	3.38	4.73	3.25	30.38
"	Sussex	Arundel (Patching)	1.47	5.29	4.52	.96	1.86	2.98	.77	1.87	2.12	6.24	4.77	5.12	37.97
"	"	Balcombe (The Gables) ...	2.28	6.55	4.17	1.66	3.01	2.57	.99	3.60	2.10	5.95	5.81	4.13	42.82
"	"	Eastbourne (Glenthorne)...	1.50	4.79	3.09	1.72	2.30	2.85	.80	1.91	1.77	6.03	5.56	4.34	36.66
"	"	Crowborough (Uckfield Ldg.)	2.69	5.90	4.99	1.79	2.86	3.43	1.64	2.34	1.97	6.25	5.64	4.32	43.82
"	Hampshire	Totland Bay (Aston House)	1.23	4.55	3.55	.45	1.84	2.27	.55	2.18	1.93	4.30	3.25	4.22	30.32
"	"	West Dean Rectory .....	.95	5.39	3.47	.52	1.33	1.59	1.14	4.68	2.32	6.21	4.82	4.30	36.72
"	"	Bps. Waltham(Swanmore Ho.)	1.93	6.07	4.63	.88	1.62	2.32	1.16	2.69	2.58	7.54	5.45	5.21	42.08
"	"	Sherborne St. John	1.59	5.23	4.21	.83	1.42	2.28	1.23	4.98	2.01	4.84	3.90	3.38	35.90
III.	Hertfordshire	St. Albans(County Museum)	2.06	3.88	4.41	1.41	2.08	2.97	1.50	3.88	1.49	3.68	4.22	2.97	34.55
"	"	Royston (Therfield Rec.)...	1.04	3.93	4.19	1.35	2.85	3.03	1.83	2.91	.77	2.53	3.36	2.60	30.39
"	Buckinghamshire	Slough (Upton).....	1.05	3.49	3.92	1.00	1.62	2.62	1.04	4.65	1.54	3.45	4.35	3.03	31.76
"	"	Hampden House	1.73	4.72	5.28	1.43	1.42	2.96	1.70	3.71	1.32	3.56	3.92	3.46	35.21
"	"	Buckingham (Adstock Fields)	1.11	3.61	4.26	.98	1.41	2.27	3.30	2.28	.59	2.92	3.36	2.76	28.85
"	Oxfordshire	Oxford (Magdalen College)	1.37	3.60	5.08	.88	1.83	1.61	1.59	3.81	.73	3.46	2.94	2.73	29.63
"	"	Goring (Elmcroft)	1.03	4.62	5.15	.67	1.38	2.00	1.05	5.59	1.52	3.80	3.60	3.38	33.79
"	"	Wellingboro' (Swanspool)...	1.58	3.21	4.52	1.01	1.93	1.69	1.38	2.80	.53	2.03	3.33	2.57	26.58
"	Northamptonshire	Huntingdon(BosworthHo.)	1.13	2.90	3.51	.98	2.08	2.06	1.06	2.90	.89	1.51	2.67	2.75	24.44
"	"	Shillington	1.13	3.92	5.17	1.23	1.63	2.89	1.33	2.69	1.14	3.05	3.22	2.71	30.11
"	Huntingdonshire	Ely (The Palace)	1.18	4.25	3.01	1.20	1.81	1.99	1.24	2.57	1.44	1.53	2.37	2.59	25.18
"	Bedfordshire	Wisbech (Bank House) ...	1.17	3.31	3.67	1.16	1.85	2.11	1.88	5.13	1.82	1.69	2.43	2.86	29.08
"	Cambridgeshire	Grays Sewage Works .....	.88	3.06	3.13	1.18	1.36	1.34	2.21	2.81	.84	2.04	3.77	2.20	24.82
IV.	Essex	Epping (The Hemnalls) ...	2.09	3.92	4.72	1.55	2.29	2.91	1.80	5.27	1.28	4.44	5.14	3.47	38.88

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)	.81	3.07	3.10	.92	1.55	2.11	.60	3.01	.97	1.92	3.41	2.02	23.49
"	"	Shalford (Littles)	1.35	3.36	3.68	1.23	2.23	2.86	1.07	3.62	1.44	3.76	3.82	2.76	31.18
"	Suffolk	Hawkedon Rectory	1.62	4.40	3.32	1.81	1.61	2.57	1.48	4.04	2.01	3.18	3.29	2.68	32.01
"	"	Ipswich (Woolverstone Pk.)	1.29	3.60	4.19	1.66	2.38	2.68	1.70	5.58	1.19	2.34	3.73	3.25	33.59
"	"	Aldborough (Aldingham Ho.)	1.35	3.89	3.61	2.13	1.61	2.27	1.11	5.82	.95	2.64	3.33	4.26	32.97
"	"	Bacton	1.55	4.67	3.70	1.55	1.97	2.61	1.07	4.22	1.38	2.75	2.95	2.78	31.20
"	"	Burgh Hall [Yarmouth]	1.61	3.23	2.60	2.03	2.27	3.09	1.06	2.51	1.83	2.89	2.91	3.62	29.65
"	"	Aylsham (Millgate)	1.66	4.69	4.15	1.98	2.47	4.51	2.86	3.36	1.94	2.78	3.31	3.84	37.55
"	Norfolk	Sandringham House	1.39	3.69	3.55	1.84	2.53	2.93	1.90	4.11	1.35	2.28	2.83	3.15	31.55
"	"	Watton	1.69	4.90	3.99	2.05	2.06	2.62	1.11	2.53	1.47	2.83	2.55	2.73	30.53
V.	Wiltshire	Calne (High Street)	2.08	4.66	4.20	.98	1.58	2.18	1.32	3.38	1.16	5.79	3.70	3.30	34.33
"	"	Mere (Charnage)	2.09	4.70	2.63	1.58	2.41	2.66	1.73	6.33	3.69	6.32	4.22	3.75	42.11
"	"	Salisbury Plain (Shrewton)	1.05	5.28	3.81	.66	1.68	2.52	.92	5.06	1.54	5.67	4.73	4.22	37.14
"	"	Marlborough (Mildenhall)	1.56	5.53	3.28	.72	1.61	2.12	1.02	5.80	1.32	3.81	3.73	4.17	34.67
"	Dorsetshire	Wareham (Binnegar Hall)	1.69	5.99	4.34	.73	1.59	1.79	1.37	4.35	2.98	5.35	5.23	6.01	41.42
"	"	Beaminstor (Hamilton Lodge)	1.64	6.98	3.66	.84	2.49	2.10	1.56	5.86	2.92	7.67	5.72	5.00	46.44
"	"	Wimborne (Codford House)	1.72	5.40	3.47	.77	1.77	2.11	1.04	4.22	2.70	5.49	5.10	4.64	38.43
"	South Devonshire	Kingsbridge (Westcombe)	1.72	6.86	4.72	.84	2.20	2.07	1.34	3.92	2.50	7.97	6.36	5.33	45.83
"	"	Princetown (H. M. Prison)	7.99	12.85	5.86	4.41	2.97	5.26	2.88	6.86	4.44	15.92	12.79	6.75	88.98
"	"	Teignmouth (Den Gardens)	1.10	5.67	4.16	.37	1.72	2.21	.94	4.56	3.08	5.74	4.83	4.28	38.66
"	"	Collumpton	1.73	6.88	3.70	1.43	2.94	2.77	1.20	5.68	2.97	6.56	5.32	4.06	45.24
"	North	Chumleigh (Leigh House)	2.40	7.44	4.05	1.33	2.28	2.56	1.62	4.33	3.06	5.83	4.46	3.86	43.22
"	"	Barnstaple (N. Devon Athenæum)	1.39	6.73	3.36	1.24	2.10	1.85	1.35	4.12	2.28	5.35	3.86	3.00	36.63
"	"	Okehampton (Oaklands)	3.54	8.58	4.23	1.63	2.24	2.54	1.18	5.09	2.83	8.10	7.06	4.98	52.00
"	Cornwall	Redruth (Trewirgie)	2.29	6.96	5.31	1.29	1.73	1.83	1.62	3.56	2.09	7.11	8.16	4.99	46.94
"	"	Morwenstow Vicarage	1.98	7.10	3.58	1.04	1.91	2.63	1.01	1.96	2.23	5.86	4.63	4.18	38.11
"	"	Penzance (Morrab Garden)	1.70	7.36	5.97	1.54	1.97	1.74	2.05	3.49	2.99	6.96	6.63	5.21	47.61
"	"	St. Austell (Trevana)	1.70	7.40	4.03	1.52	1.53	2.01	2.02	5.57	2.38	8.36	8.37	5.20	50.09
"	"	Altarnon Sanctuary	3.70	9.86	4.25	1.86	1.95	3.49	1.29	4.41	3.51	9.04	8.20	7.00	58.56
"	Somersetshire	Street (Hind Hayes)	1.19	4.90	2.90	1.20	3.13	2.13	.82	5.16	2.95	4.94	3.60	3.07	35.99
"	"	Burnham (Chalbury)	1.70	5.03	3.45	1.41	2.84	2.12	.88	3.99	2.92	5.65	2.94	3.64	36.57
"	"	Winsford School	5.69	10.14	4.46	2.38	3.28	3.98	1.48	6.88	2.82	9.93	6.01	5.73	62.78
VI.	Gloucestershire	Stroud (Field Place)	1.73	4.32	3.47	.84	3.10	1.81	1.86	4.63	1.06	5.47	2.86	3.63	34.78
"	"	Mickleton (Bank House)	.81	3.65	4.00	1.08	2.16	2.44	1.71	2.48	1.23	3.17	3.53	2.98	29.24
"	"	Clifton (Harley Place)	3.31	5.78	3.94	1.49	3.97	3.08	1.46	4.72	1.77	7.55	2.93	4.49	44.49
"	"	Lechlade (Claydon House)	1.54	4.02	4.07	.90	1.86	1.97	1.09	3.73	1.05	4.55	2.96	3.68	31.42

ENGLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
VI.	Herefordshire	1 Ross	.90	4.84	4.23	.87	3.07	1.63	1.40	3.50	1.01	4.94	3.16	2.11	31.66
"	Shropshire	Ludlow (Ashford House)...	1.17	5.39	4.46	1.13	3.30	1.46	2.24	2.15	1.15	5.03	2.94	2.39	32.81
"	"	Bishop's Castle Vicarage...	1.65	4.70	4.11	1.55	3.66	1.73	1.33	1.97	1.93	6.14	3.03	1.96	33.76
"	"	Much Wenlock (Willey Pk.)...	.74	3.98	3.46	1.36	2.50	1.27	1.88	2.45	1.43	4.65	3.07	2.29	29.08
"	"	Oswestry (The Mount Res.)...	1.60	3.28	3.34	1.58	3.26	1.78	1.59	1.70	1.94	5.37	3.50	2.20	31.14
"	Staffordshire	Market Drayton (Old Springs)	1.12	3.23	2.51	1.23	2.33	1.78	1.88	2.96	1.45	4.22	2.35	2.10	27.16
"	"	Shugborough.....	1.43	4.85	3.48	1.42	2.30	3.13	2.64	2.73	1.29	3.99	2.82	2.99	33.07
"	"	Burton (Shobnall)	1.13	3.90	3.75	1.57	2.00	1.75	2.10	1.87	.79	2.93	2.60	2.36	26.75
"	"	Mayfield Ho. [Ashbourne]	1.75	4.47	3.49	2.99	2.08	2.26	2.19	2.25	1.54	4.28	3.42	3.48	34.20
"	Worcestershire	Worcester (Belmont Road)	.77	3.07	2.50	.75	2.66	1.07	1.53	2.24	.72	3.08	2.04	2.46	22.89
"	"	Dudley (Borough Cemetery)	.89	3.17	2.53	1.28	2.58	1.42	2.08	2.00	1.09	3.36	3.13	2.32	25.85
"	Warwickshire	Wormleighton Hall.....	1.36	3.68	4.04	1.25	2.38	2.00	2.32	3.34	.79	2.49	2.82	2.98	29.45
"	"	Bedworth Cemetery.....	1.33	3.55	3.99	.94	2.45	1.58	1.50	2.99	.98	2.76	2.79	2.68	27.54
VII.	Leicestershire	Market Harboro' (Rose Hill)	1.32	4.26	4.90	.85	1.69	1.67	2.15	3.32	1.43	2.25	3.01	2.57	29.42
"	"	Loughboro' (NanPanton Res.)	1.48	4.84	5.06	1.23	2.69	1.64	1.30	3.55	.80	2.76	2.84	2.65	30.84
"	"	Belvoir Castle	1.02	4.28	4.10	1.24	2.04	1.35	1.80	3.85	1.33	1.78	2.65	2.25	27.69
"	Lincolnshire	Stamford (St. George's Sq.)	.95	3.81	4.27	1.05	2.38	2.04	1.78	3.09	.89	1.60	3.15	2.77	27.78
"	"	Boston (Black Sluice, Skirbeck)	1.05	3.74	4.27	1.55	1.75	2.65	1.67	2.88	1.29	1.99	3.21	3.00	29.05
"	"	Sleaford (Rauceby Hall)...	.83	4.68	4.86	1.56	2.44	1.44	1.87	1.90	1.50	2.21	3.49	2.67	29.45
"	"	Willingham-by-Stow .....	.47	3.46	3.56	1.32	2.33	2.18	2.10	4.00	1.30	1.62	2.67	2.26	27.27
"	"	Louth (Westgate).....	.85	3.86	4.19	1.59	2.61	3.04	1.35	2.32	1.47	2.40	3.40	2.38	30.36
"	"	Burton-upon-Stather Vic...	.47	2.99	3.41	1.33	2.51	1.50	2.11	4.39	1.09	2.09	2.29	2.39	26.57
"	Nottinghamshire	Mansfield (West Bank) ...	.77	4.60	4.93	1.58	2.62	1.91	1.76	1.71	1.78	2.94	3.82	2.91	31.33
"	Derbyshire	Buxton (Devonshire Hospital)	3.75	6.57	3.30	4.87	2.47	3.82	2.59	3.03	2.92	6.35	4.07	3.90	47.64
VIII.	Cheshire	Wythenshawe Hall	2.14	3.61	1.78	2.19	2.36	3.22	2.24	1.84	2.65	3.80	2.25	2.56	30.64
"	"	Sandbach (Malkins Bank)	1.03	3.25	1.50	1.45	1.92	1.37	1.56	3.15	1.67	2.44	1.57	1.91	22.82
"	"	Eccleston .....	.45	2.63	1.99	1.22	2.76	1.03	1.30	3.18	2.28	3.91	2.37	1.59	24.71
"	South Lancashire	Liverpool (Huyton Vic.)...	1.96	3.94	1.91	2.55	2.91	3.15	1.30	2.71	4.22	4.17	3.25	2.03	32.66
"	"	Bolton (Smithill's Hall) ...	3.84	4.84	1.81	4.76	2.48	4.22	2.73	4.12	4.22	8.17	3.28	3.41	47.88
"	Central	Burnley (Swinden)	4.42	5.63	4.10	3.33	3.11	2.89	3.02	4.21	2.25	9.91	4.56	4.42	51.85
"	"	Stonyhurst College	4.67	4.73	1.93	4.57	3.12	2.50	2.88	4.13	3.09	10.30	3.61	3.85	49.38
"	"	Southport (Hesketh Park)	1.31	2.97	2.09	2.37	2.45	2.10	1.05	3.56	2.56	5.81	2.63	2.52	31.42
"	North	Greenodd (Summer Hill)...	5.98	5.96	1.69	4.95	5.39	4.19	3.69	3.58	4.29	10.76	7.20	5.18	62.86
"	"	Lancaster (Strathspey) ...	3.18	3.35	1.20	2.65	3.54	2.21	2.27	4.22	2.88	7.35	3.83	3.08	39.76
IX.	Yorkshire, W.R.	Settle (Giggleswick School)	4.36	4.78	3.23	2.65	3.09	2.68	2.97	4.39	3.12	10.76	3.77	3.85	49.65

ENGLAND—(continued).

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
IX.	Yorkshire, W.R. ...	6 Doncaster (Wadsworth Hall)	·67	3·56	3·90	1·65	3·00	1·33	1·05	1·35	1·57	1·82	3·06	2·25	25·21
"	"	7 Sheffield (Weston Park) ...	1·76	5·36	4·96	1·39	2·64	2·20	1·22	1·46	1·50	3·58	3·92	3·09	33·08
"	"	8 Meltham (Harewood Lodge)	4·98	8·19	5·76	3·20	2·51	3·98	2·10	3·44	2·23	7·83	5·42	3·71	52·65
"	"	9 Garforth (Manor Farm) ...	·52	3·26	3·90	1·07	2·36	1·24	1·48	2·66	2·08	3·26	2·34	1·70	25·87
"	"	10 Ilkley (St. James' Road) ..	2·91	5·48	4·13	2·38	2·18	1·72	1·81	2·42	2·19	8·29	3·87	2·53	39·91
"	"	10 York (Mount Villas)	·89	3·31	3·64	·99	2·67	1·96	1·63	3·18	1·05	2·86	2·19	2·45	26·82
"	E.R. ...	2 Birdsall Gardens	1·02	3·85	3·53	2·10	3·17	2·15	2·91	2·24	1·25	3·79	4·17	3·02	33·20
"	"	3 Patrington	·64	2·92	3·47	1·55	3·02	2·63	1·38	1·42	·89	2·48	2·02	2·83	25·25
"	"	3 Market Weighton (Dalton Holme)	·73	3·53	3·24	1·68	2·71	2·54	2·10	2·78	·97	3·79	3·06	2·88	30·01
"	"	4 Bridlington	·74	2·76	2·89	1·00	2·90	2·09	2·33	1·54	1·14	2·62	2·74	3·51	26·26
"	N.R. ...	1 Leyburn (Bolton Hall) ...	3·12	5·13	5·15	1·22	2·76	2·13	2·13	2·69	2·45	6·45	4·45	2·80	40·48
"	"	2 Thirsk (Mount St. John) ...	·35	3·03	3·10	1·06	2·32	2·49	2·35	1·91	2·24	2·96	2·52	1·92	26·25
"	"	5 Whitby (Mulgrave Castle)	1·21	3·23	3·23	1·84	2·84	1·96	1·59	3·06	1·45	3·26	3·63	3·21	30·51
"	"	6 Middlesbrough (Ormesby)	·54	3·35	4·13	2·05	2·53	1·53	1·90	2·63	2·37	2·38	2·40	2·25	28·06
X.	Durham	1 Barnard Castle (County School)	2·01	4·21	4·90	1·07	3·22	1·26	3·13	1·70	1·89	4·82	4·21	2·90	35·32
"	"	2 Wearhead Station	6·46	6·78	9·96	3·58	3·86	2·93	3·58	2·62	3·11	8·99	8·19	4·73	64·79
"	"	2 Ushaw (St. Cuthbert's College)	1·21	4·21	5·42	2·48	3·75	2·51	3·40	3·50	1·80	3·80	4·40	3·34	39·82
"	Northumberland ...	2 Haltwhistle (Bellister Castle)	5·96	4·65	3·47	3·07	3·50	3·34	4·22	3·77	2·31	6·28	5·33	4·12	50·02
"	"	3 Corbridge (Howden Dene)	2·04	3·84	3·59	1·55	3·05	1·78	3·03	3·75	1·66	3·41	3·94	3·32	34·96
"	"	4 Bellingham (High Green Manor)	4·69	4·19	4·35	1·77	3·77	3·32	3·56	4·39	2·17	5·82	7·02	3·97	49·02
"	"	5 Morpeth (Bothal haugh) ...	1·17	2·27	3·11	1·40	2·63	2·17	3·17	2·10	1·53	2·89	3·20	4·21	29·85
"	"	5 Rothbury (Crag side)	2·41	3·69	4·95	1·79	3·25	2·20	3·50	2·96	2·32	3·63	4·76	4·14	38·64
"	"	6 Ilderton (Lilburn Tower) ..	1·91	3·19	4·48	1·49	3·25	2·66	4·55	3·79	2·50	3·13	4·26	3·27	38·78
"	Cumberland	1 Penrith (Benson House) ...	4·26	4·56	2·76	2·53	2·94	3·24	3·82	2·14	1·89	7·07	5·82	3·08	44·11
"	"	1 Wigton (Brookfield)	3·64	3·16	1·71	2·30	3·12	2·25	3·63	2·65	2·18	6·37	4·30	3·02	38·33
"	"	2 Borrowdale (Seathwaite) ...	22·80	12·87	3·22	11·93	8·35	7·22	6·57	7·01	7·86	23·01	20·71	10·20	141·75
"	"	3 Whitehaven (Irish Street) ..	4·05	4·40	1·40	2·78	3·73	3·13	3·11	2·57	2·96	6·93	6·12	5·85	47·03
"	Westmorland	1 Kirkby Stephen (Redman Ho.)	6·02	5·56	3·78	2·33	3·49	2·14	4·24	3·01	2·19	9·04	5·21	3·11	50·12
"	"	3 Kendal (Crosthwaite Vic.)	7·73	5·53	1·96	3·47	4·50	3·82	4·26	2·88	2·78	9·98	6·75	4·93	58·59
England. Mean of 130 stations			2·12	4·74	3·83	1·72	2·50	2·40	1·90	3·44	1·92	4·97	4·22	3·47	37·23

MONMOUTH, WALES AND THE ISLANDS.

XI.	Monmouth.....	3	Abergavenny (The Chain).	1·48	6·04	5·12	1·07	3·70	1·08	1·13	1·73	8·22	5·28	3·12	41·10
"	"	4	Chepstow (Piercefield Pk.)	3·35	4·96	3·71	1·44	3·64	2·68	2·46	1·00	7·15	2·55	3·45	40·36

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)	4·68	6·06	2·53	2·20	3·77	3·95	2·23	4·01	3·33	11·66	5·09	4·35	53·86
"	"	Treherbert (Tyn-y-waun)	12·40	13·00	3·95	5·69	4·54	5·80	3·30	6·01	4·92	19·85	10·18	7·85	97·49
"	"	Cardiff (Roath Park)	3·08	5·88	4·08	1·61	4·46	4·52	2·13	3·29	2·36	8·55	3·17	3·84	46·97
"	Cardarthen	Cardarthen (The Friary) ..	3·73	5·02	2·11	3·19	3·14	3·28	2·18	5·68	3·04	10·62	5·10	4·09	51·18
"	"	Llanwrda (Dolaucioth) ...	4·07	6·51	3·65	4·77	3·91	2·82	2·41	6·31	4·61	11·77	6·22	3·79	60·84
"	Pembroke	St. David's	2·10	5·01	2·73	1·84	2·89	2·19	1·24	2·08	3·20	7·51	3·67	3·62	38·08
"	"	Tenby (Glendower)	2·75	5·19	2·42	2·23	3·15	3·21	1·55	2·68	2·95	10·81	3·69	3·86	44·49
"	Cardigan	Aberystwyth (North Parade)	1·96	3·37	2·22	2·30	4·57	2·00	·95	1·71	3·82	6·55	2·01	3·25	34·71
"	"	Birmingham W.W. (Claerdu)	7·35	9·45	3·55	7·70	6·25	5·55	3·65	5·90	7·70	12·75	4·95	5·50	80·30
"	Brecon	Brecon (New Inn)	5·90	6·59	4·51	3·64	3·15	3·27	1·56	5·13	2·16	14·75	6·67	3·83	61·16
"	"	Gwernyfed Park [Glasbury]	1·48	5·01	3·96	1·04	3·47	1·42	·81	2·11	1·63	5·48	3·56	1·87	31·84
"	Radnor	Llandrindod Wells (Kimberley)	2·22	5·83	4·05	1·92	4·16	2·14	1·78	2·32	2·00	7·91	4·05	2·71	41·09
"	Montgomery	Newtown, Penarth Weir ...	2·01	5·23	4·19	2·04	3·49	2·51	2·38	2·23	2·63	6·99	3·22	2·27	38·99
"	"	Lake Vyrnwy (Bank Cynon Isaf)	7·74	6·94	3·11	4·14	4·59	3·11	2·38	2·93	3·45	12·63	5·37	4·09	60·48
"	"	Mostyn Vicarage	1·65	3·96	2·42	2·66	4·57	1·73	1·79	2·29	3·73	4·58	2·60	2·20	34·18
"	Denbigh	Cerrig-y-Druiddion (Bwlch-y-Bendy)...	4·10	5·41	2·20	2·37	3·86	2·53	1·51	3·04	4·06	10·45	4·87	2·94	47·34
"	Merioneth	Blaenau Festiniog (Oakley Qrs.)...	12·44	12·43	2·19	8·32	7·39	5·04	4·17	8·49	6·84	18·76	13·05	7·14	106·26
"	"	Dolgelly (Bryntirion)	3·57	5·55	2·00	7·35	4·43	3·72	2·50	4·77	7·16	10·43	5·58	4·31	61·37
"	Carnarvon	Llandudno	·99	3·70	1·91	1·57	3·60	2·08	1·36	2·01	2·82	4·13	2·59	1·68	28·44
"	"	Abersoch	2·22	5·08	3·06	2·48	5·34	2·67	·85	1·99	3·93	6·67	3·90	3·60	41·79
"	Anglesey	Llanerchymedd (Llwydiarth Bagob)	2·13	4·63	2·40	2·01	5·12	1·57	2·34	2·36	3·58	5·20	5·63	5·30	42·27
Wales, etc. Mean of 23 stations			4·06	6·12	3·14	3·20	4·23	2·99	2·02	3·67	3·59	9·71	4·91	3·86	51·50
XI.	Isle of Man	Douglas (Borough Cemetery)	2·98	3·27	1·57	3·39	5·86	2·79	2·06	3·68	2·47	8·39	4·75	3·74	44·95

SCOTLAND.

XII.	Wigtown	Stoneykirk (Ardwell Ho.)	3·22	2·99	1·04	3·40	6·28	2·02	2·53	2·61	1·76	6·93	3·19	3·20	39·17
"	"	Carlisle (Galloway House)	3·06	3·30	1·60	2·21	2·52	2·01	2·51	2·07	·99	6·58	3·28	4·22	34·35
"	Kirkcudbright	Dalry (Glendarloch)	7·10	5·72	1·74	4·27	3·94	1·70	5·32	2·65	1·65	10·27	6·50	6·93	57·79
"	"	Dalbeattie (Little Richorn)	5·19	4·51	1·48	2·57	3·86	2·16	3·42	5·17	1·62	8·20	5·14	6·12	49·44
"	Dumfries	Moffat (Auchen Castle) ...	8·61	5·64	2·00	3·59	5·14	2·44	4·95	4·35	2·48	10·02	5·87	5·25	60·34
"	"	Langholm (Ewes, Burnfoot)	7·84	4·29	2·46	3·97	4·61	3·05	5·49	4·85	1·24	9·79	6·97	4·43	58·99
"	Roxburgh	Hawick (Wolfelee)	4·98	4·14	3·80	2·81	4·03	2·50	5·01	5·69	2·85	5·94	5·76	3·86	51·37
XIII.	Selkirk	Selkirk (The Hangingshaw)	4·31	4·83	4·31	3·06	4·59	1·68	5·28	4·00	2·19	5·31	5·05	3·30	47·91
"	Peebles	Stobo (Dawyck Gardens)...	5·26	5·10	3·46	2·58	4·74	4·49	5·13	4·24	2·72	6·56	6·20	4·12	54·60
"	Berwick	Marchmont House	2·24	4·21	4·42	2·68	3·10	2·08	5·81	4·25	2·68	4·25	5·37	3·91	45·00

SCOTLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XIII.	Haddington	Garvald (Donolly Reservoir)	2.73	3.90	5.26	2.25	5.00	4.23	3.92	4.59	3.50	4.85	5.61	3.47	49.31
"	Midlothian	West Calder (Addiewell) ..	6.09	5.02	2.37	3.72	5.38	2.89	3.88	5.07	2.71	7.06	4.18	3.88	52.25
"	"	Edinburgh (Blackford Hill)	2.80	3.21	2.86	2.43	3.36	3.01	5.18	4.05	1.47	4.53	3.17	2.92	38.99
XIV.	Lanark	Leadhills	12.48	7.87	4.80	6.34	4.24	4.39	5.33	5.53	4.23	10.58	8.14	6.37	80.30
"	"	Strathaven (E. Overton Ho.)	7.51	5.73	2.43	3.66	5.77	2.33	3.80	4.13	1.80	8.45	6.21	5.84	57.66
"	Ayr	Dalry (Blair)	6.21	6.41	1.76	4.93	4.39	2.32	3.50	5.44	2.62	7.60	4.76	5.66	55.60
"	"	Maybole (Knockdon Farm)	4.26	3.76	1.00	3.96	3.60	1.55	3.71	3.73	1.40	5.66	4.02	5.19	41.84
"	"	Colmonell (Knockdolian)	3.94	3.91	1.08	3.65	3.82	1.89	3.80	3.19	1.43	6.13	4.78	5.90	43.52
"	"	New Cumnock (Ayr Sanatorium)	8.66	6.37	2.55	4.77	4.84	2.82	4.95	3.35	2.46	8.63	7.68	6.20	63.28
"	Renfrew	Glasgow (Queen's Park) ...	5.18	4.42	1.98	3.24	4.28	2.68	3.37	3.86	.79	6.39	3.26	4.60	44.05
XV.	Dumbarton	Cardross (Kilmahew)	6.49	5.23	1.62	3.33	4.28	1.57	2.30	4.33	.95	7.80	5.32	5.49	48.71
"	Stirling	Falkirk (Westbank)	5.02	4.22	2.93	2.23	5.21	2.69	3.97	3.23	.89	6.42	4.03	4.12	44.96
"	"	Buchlyvie (The Manse) ...	7.71	5.55	2.15	3.44	4.35	2.11	4.73	3.66	1.10	10.39	6.50	5.50	57.19
"	Bute	Rothsay (Crichton Road)	7.08	6.66	1.41	4.84	4.86	2.06	2.48	6.29	2.17	7.85	6.10	5.92	57.72
"	Argyll	Morvern (Kingairloch) ..	16.33	10.50	2.10	6.68	6.33	4.75	3.18	4.99	5.67	13.79	14.82	7.87	97.01
"	"	Glenleven (Kinlochleven) ..	17.44	9.63	2.24	5.38	4.89	2.02	4.68	5.31	3.45	14.08	13.06	7.59	89.77
"	"	Taynuilt (Barguilean)	12.92	9.46	2.40	4.48	4.60	2.14	3.16	3.75	2.28	11.36	9.79	6.71	73.05
"	"	Loch Awe (Ford)	9.79	8.50	2.20	6.60	6.53	2.76	4.80	4.76	3.86	9.89	9.41	7.56	76.66
"	"	Muasdale (Killean Manse)	4.53	5.37	1.68	3.37	4.31	1.30	2.32	2.76	1.47	5.19	5.38	5.80	43.48
"	"	Campbeltown (Witchburn)	4.95	5.05	1.99	3.41	4.83	1.41	2.43	3.25	2.25	6.58	5.14	6.00	47.29
"	"	Ardishaig (Canal Office) ...	9.20	9.17	2.25	7.29	5.53	2.44	2.66	4.00	3.26	10.33	8.24	6.33	70.70
"	"	Lochgoilhead (Nuthill)	13.06	8.84	2.50	6.33	5.56	2.74	3.41	4.35	2.53	11.47	8.82	8.99	79.10
"	"	Islay (Ardbeg)	4.73	5.37	2.21	4.51	4.79	1.17	2.21	2.30	2.62	6.27	4.69	5.12	45.99
"	"	Jura (Ardfin)	7.18	6.48	1.78	4.85	5.19	1.97	2.08	3.29	2.47	7.78	6.24	5.96	55.27
"	"	Iona	5.56	5.33	1.43	3.35	3.97	1.27	2.69	3.69	2.79	7.98	7.00	4.89	49.95
"	"	Mull (Quinish)	5.89	5.56	1.01	3.45	4.10	2.13	3.11	3.91	3.25	7.87	8.63	6.64	55.55
"	"	Tiree (Cornaimore)	4.86	4.79	1.07	2.96	4.00	1.02	2.24	2.00	1.72	6.76	5.00	5.28	41.70
XVI.	Fife	Colinsburgh (Balcarres) ...	1.57	3.32	3.84	2.79	4.04	3.06	5.17	3.07	.96	4.59	4.37	3.08	39.86
"	"	Cupar (Kinross Asylum) ...	2.49	3.25	3.23	2.11	3.87	2.68	5.59	3.45	1.17	4.85	4.92	2.74	40.35
"	Perth	Balquhiddier (Stronvar) ...	14.79	9.77	2.25	6.32	5.36	2.45	4.48	2.96	1.31	12.46	10.79	8.08	81.02
"	"	Glendevon (Tormaukin) ...	10.23	8.73	4.63	4.50	5.68	6.33	5.08	2.75	1.47	9.90	10.16	7.07	76.53
"	"	Crieff (Strathearn Hydro.)	6.29	5.02	2.36	2.91	3.81	2.47	4.75	2.95	1.29	6.68	5.37	4.95	48.85
"	"	Aberfeldy (Dall Avon) ...	4.63	5.28	1.42	2.35	3.01	1.98	6.07	4.03	1.45	6.44	7.08	4.73	48.47
"	"	Glenlyon (Meggernie Castle)	13.34	10.09	1.98	5.14	5.13	2.93	5.05	3.06	1.35	11.36	11.13	6.77	77.33
"	"	Coupar Angus	2.94	2.95	2.87	1.46	3.53	2.38	7.22	3.74	1.37	5.13	4.03	3.48	41.10
"	"	Arbroath (Muirheads Res.)	2.95	2.27	2.70	2.20	2.97	3.45	6.37	1.73	1.35	4.13	3.72	4.22	38.06
"	Forfar	Glen Prosen (Pearsie)	3.73	3.38	3.27	2.17	3.25	2.45	6.71	4.75	1.45	6.18	6.04	4.74	48.12

SCOTLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XVII.	Kincardine	Fettercairn (The Burn) ...	2·29	3·00	3·37	2·19	3·12	2·88	7·17	3·28	1·30	5·95	5·56	5·41	45·52
"	"	Crathes (Pinewood).....	1·03	2·38	3·54	2·82	3·39	3·81	4·77	3·60	1·48	5·90	4·83	4·59	42·14
"	Aberdeen	Braemar (Derry Lodge) ...	3·95	5·72	4·28	2·09	2·16	3·33	3·07	3·55	1·86	6·34	4·83	3·94	45·12
"	"	Aberdeen (Cranford House)	·91	1·80	2·18	2·54	3·49	4·57	3·34	3·66	1·79	4·13	3·64	4·16	36·21
"	"	Strathdon Estate Office ...	2·13	3·41	4·25	3·18	4·13	4·95	4·47	3·17	2·18	6·12	4·93	3·77	46·69
"	"	New Deer School House....	1·49	1·78	2·56	3·18	3·64	4·47	1·92	2·20	1·61	5·63	3·60	3·96	56·04
"	"	Huntly (Cruchie)	·80	1·64	2·38	3·66	5·04	5·17	3·18	2·83	1·65	4·81	3·78	3·52	38·46
"	Moray	Gordon Castle	2·09	2·57	2·21	2·72	4·41	6·08	3·24	2·70	1·10	3·86	2·85	2·01	35·84
"	"	Grantown-on-Spey	2·73	4·28	2·19	2·31	4·89	5·99	3·12	3·64	1·88	4·53	3·28	1·96	40·80
"	Nairn	Nairn (Achareidh)	2·86	3·34	1·61	1·73	3·85	5·99	3·77	1·88	·97	4·81	1·82	2·23	34·86
XVIII.	Inverness	Kingussie	5·99	5·00	2·00	2·22	2·88	1·64	4·29	2·44	1·63	7·86	3·81	2·84	42·60
"	"	Fort Augustus (S. Benedict's)	12·19	7·03	1·81	3·35	3·37	3·00	3·76	2·30	1·92	10·56	5·92	4·52	59·73
"	"	Loch Quoich (Glenquoich)	29·27	13·08	4·71	8·09	5·94	2·67	5·83	4·39	6·41	21·69	17·80	11·35	131·23
"	"	Drumnadrochit	7·10	6·16	2·46	2·80	4·52	4·75	4·60	1·92	1·33	6·06	3·61	3·88	49·19
"	"	Arisaig House	7·82	7·30	1·88	4·23	4·40	2·29	4·92	3·98	3·85	9·29	9·96	7·69	67·61
"	"	Fort William	15·19	10·44	2·14	5·47	4·27	1·84	2·91	4·23	2·53	16·20	11·79	6·12	83·13
"	"	Skye (Kyleakin)	7·38	5·68	·78	2·47	2·15	1·83	2·48	2·14	1·90	6·43	6·04	4·11	43·39
"	"	" (Dunvegan)	9·30	7·75	2·14	5·33	5·02	2·81	2·80	2·39	3·59	8·15	9·67	6·92	65·87
"	"	Barra (Castle Bay)	3·07	4·10	·91	2·80	4·29	2·01	2·65	2·68	1·61	4·10	5·22	4·67	38·11
"	"	South Uist (Ushenish)	5·03	6·62	1·38	3·00	1·85	2·76	1·54	2·42	1·45	8·95	6·28	6·54	47·82
"	Ross and Cromarty	Alness (Ardross Castle) ...	7·63	4·58	3·67	2·83	3·36	4·67	3·32	2·76	1·69	7·79	3·05	3·35	48·70
"	"	Ullapool (Inverpolly Ldg.)	7·45	3·88	2·85	2·00	2·34	2·76	2·21	1·31	2·19	6·87	7·91	4·05	45·82
"	"	Loch Torridon (Bendamp)	16·75	10·50	2·94	5·93	4·62	5·43	3·88	3·22	5·17	9·39	10·98	9·59	88·40
"	"	Poolewe (Inverewe Gdns.)	8·84	4·04	3·85	3·28	4·36	6·12	3·42	2·50	3·39	8·06	9·72	5·58	63·16
"	"	Glencarron Lodge	16·30	7·11	3·90	6·13	5·51	4·78	4·08	2·87	3·94	14·67	8·77	7·35	85·41
"	"	Stornoway	8·46	6·03	2·99	3·82	3·54	2·05	1·73	1·10	2·72	5·67	5·63	5·24	48·98
XIX.	Sutherland	Dunrobin Castle	5·04	3·14	2·53	1·95	3·57	2·99	1·94	3·03	1·51	5·07	2·37	2·77	35·91
"	"	Altnaharra	11·68	5·31	3·61	2·63	4·20	5·13	2·37	1·83	2·37	6·38	5·65	4·28	55·44
"	"	Tongue Manse	5·25	3·20	2·56	2·70	3·86	4·80	2·21	·99	2·01	4·20	4·90	3·94	40·62
"	"	Loch More (Achfary)	14·34	7·53	4·30	4·98	4·56	7·11	3·77	3·50	5·05	9·77	12·32	7·15	84·38
"	Caithness	Berriedale (Langwell)	5·20	3·10	3·29	2·41	3·28	3·70	2·13	1·78	1·87	5·49	3·06	3·38	38·69
"	"	Thurso (Buckies)	4·70	3·06	3·06	2·60	3·72	4·42	1·82	1·41	2·53	4·40	4·18	4·97	40·87
Scotland. Mean of 79 stations			6·98	5·44	2·56	3·62	4·24	3·10	3·83	3·38	2·22	7·68	6·31	5·15	54·51

IRELAND.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XX.	Cork	Castletownshend (Seafeld)	3.16	5.86	3.37	3.03	3.15	2.75	1.03	3.09	.87	8.49	7.69	3.47	45.96
"	"	Clonakilty (Shannon Vale Ho.)	2.21	5.03	2.81	4.13	3.05	2.38	1.00	3.16	.50	8.98	6.42	3.14	42.81
"	"	Dunmanway (The Rectory)	5.50	7.39	2.83	5.33	3.46	2.77	.78	6.64	1.35	13.42	12.60	4.79	66.86
"	"	Midleton (Ballynacurra) ...	1.31	3.55	1.95	2.92	2.58	2.72	1.20	2.59	1.30	7.90	7.06	1.99	37.07
"	"	Mallow (Summer Hill) ..	2.22	5.40	2.08	3.53	3.00	2.40	1.30	2.25	1.43	7.09	9.82	2.53	43.05
"	"	Mitchelstown Castle	2.08	4.84	1.69	3.31	3.23	3.25	1.91	3.72	2.18	6.49	7.67	3.09	43.46
"	Kerry	Killarney (District Asylum)	4.15	7.51	1.96	6.20	4.03	3.24	1.92	8.45	2.41	14.02	11.20	4.88	69.97
"	"	Darrynane Abbey.....	3.27	6.93	2.19	5.28	2.80	3.13	1.06	4.42	1.88	8.26	8.79	5.19	53.20
"	"	Kenmare (Dromore)	6.69	10.03	3.14	5.11	2.86	3.46	1.19	6.13	1.70	15.51	10.96	3.49	70.27
"	Waterford	Lismore Castle.. ..	2.00	4.98	1.40	2.25	2.58	2.78	1.38	4.36	1.60	9.31	7.83	2.04	42.51
"	"	Waterford (Brook Lodge)..	1.89	4.64	1.66	2.78	3.88	3.39	1.16	1.55	1.68	7.89	6.15	3.21	39.88
"	Tipperary	Nenagh (Traverston)	4.25	5.48	1.92	3.77	3.47	3.82	2.29	3.53	2.35	8.47	7.87	4.24	51.46
"	"	Clonmel (Bruce Villa).....	1.49	3.79	1.89	2.42	3.69	2.84	1.43	1.90	2.47	6.51	7.09	2.71	38.23
"	"	Cashel (Ballinamona)	1.92	4.66	1.70	3.00	3.96	3.79	2.27	2.73	2.01	4.62	5.36	2.48	38.50
"	"	Roscrea (Timoney Park)...	1.65	4.46	1.83	3.02	3.41	4.01	2.29	2.46	2.11	6.00	4.23	2.94	38.41
"	Limerick	Abbeyfeale (Springmount)	2.86	6.22	2.50	3.89	3.11	2.95	1.70	3.93	2.67	7.24	7.74	3.75	48.56
"	Clare	Ennistymon House	4.10	6.15	2.44	4.51	3.26	2.84	1.66	3.13	3.69	9.97	7.48	5.05	54.28
"	"	Derravoher [Limerick] ...	1.86	3.93	1.60	3.08	3.29	2.92	1.56	2.01	1.80	6.32	4.61	2.83	35.91
"	"	Killadysert (Paradise Hill)	3.02	6.69	2.05	3.74	3.09	3.10	1.79	3.44	1.94	9.00	6.11	3.93	47.90
"	"	Newmarket-on-Fergus (Carrigoran)...	3.07	5.61	1.97	3.35	3.61	2.81	1.27	2.69	2.03	8.12	6.05	3.73	44.31
"	"	Mountshannon (Woodpark)	3.40	5.70	2.17	4.25	3.25	3.35	1.85	2.64	2.13	7.53	5.03	4.21	45.51
XXI.	Wexford	Fethard-on-Sea	1.21	4.25	1.93	1.99	4.15	3.08	1.42	1.14	1.61	6.60	3.63	2.10	33.11
"	"	Enniscorthy (Ballyhyland)...	2.21	5.96	2.87	2.41	5.20	3.53	2.56	2.42	2.58	9.22	5.41	3.89	48.26
"	"	Gorey (Courtown House)...	1.47	4.67	3.44	2.00	3.61	2.30	1.00	2.14	2.67	7.40	4.88	2.98	38.56
"	Kilkenny	Kilkenny (Lavistown Ho.)	1.28	3.72	1.18	1.62	3.52	2.89	1.83	2.19	2.11	5.08	4.61	2.56	32.59
"	Wicklow	Rathdrum (Avondale)	2.53	5.06	3.79	1.81	3.85	3.04	1.51	2.31	2.43	6.15	6.58	4.41	43.47
"	"	Greystones (Coolagad).....	1.48	4.63	4.36	1.99	6.84	2.54	2.04	2.63	2.88	7.16	6.30	4.15	47.00
"	Carlow	Hacketstown Rectory	1.84	4.22	2.52	2.85	3.24	3.18	5.71	3.60	3.03	6.91	6.57	3.78	47.45
"	Queen's County	Abbey Leix (Blandfort)...	2.02	4.36	2.25	2.70	5.10	3.00	2.32	3.14	1.80	5.40	5.42	4.30	41.81
"	King's County	Ballycumber (Moorock Lodge)	2.24	3.24	1.36	3.24	3.59	2.73	3.29	4.63	1.79	6.45	3.37	2.74	38.67
"	Kildare	Monasterevan (Moore Abbey)	2.03	4.39	2.63	2.59	5.30	3.44	3.70	1.90	1.62	4.90	3.73	4.48	40.71
"	"	Straffan House.....	2.25	2.83	3.23	2.70	2.76	1.88	3.19	3.81	2.01	5.65	4.70	3.48	38.96
"	"	Balbriggan (Ardgillan) ...	1.32	3.80	2.76	1.38	6.26	2.47	1.85	1.89	1.83	7.33	5.04	3.01	37.97
"	Dublin	Mullacroghan [Drogheda]	1.22	1.98	2.39	1.85	3.64	2.89	2.57	1.99	1.91	7.25	5.58	2.57	35.84
"	Meath	Athboy (Frankville).....	2.45	3.89	2.38	3.34	4.39	3.03	3.15	2.18	2.07	7.98	3.87	3.33	42.06

IRELAND—(continued).

Div.	County.	Station.	Jan.	Feb.	Mar.	April.	May	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
XXI.	Westmeath	1 Mullingar (Belvedere).....	3.51	4.29	2.77	3.59	4.75	2.73	4.14	2.90	1.90	7.78	4.49	3.22	46.07
"	"	1 Castlepollard (Pakenham Hall)	2.65	3.41	2.06	3.59	4.34	2.82	2.39	3.13	1.82	8.11	4.55	3.13	42.00
"	Louth.....	3 Greenore	1.67	2.36	1.86	2.66	4.17	2.81	2.38	2.81	1.18	6.85	3.77	2.12	34.64
"	Longford	2 Ballymahon (New Castle) ..	2.71	3.18	2.02	3.67	5.21	2.83	2.97	4.10	2.28	7.96	4.36	3.05	44.34
"	"	2 Castle Forbes Gardens ...	3.73	3.50	1.71	3.82	5.03	2.46	4.39	3.92	2.01	6.61	4.63	3.26	45.07
XXII.	Galway ..	3 Ballinahinch Castle.....	5.70	6.62	1.85	5.61	4.92	3.13	2.47	4.58	4.00	14.61	10.03	7.44	70.96
"	"	3 Tuam (Gardenfield).....	3.99	4.96	1.78	4.41	3.66	3.70	1.16	3.48	2.64	8.08	5.86	4.00	47.72
"	"	4 Woodlawn.....	3.23	3.80	2.29	4.08	4.26	2.81	1.67	3.50	2.92	7.49	4.21	2.51	42.77
"	Roscommon	4 Strokestown (Castlenode)	2.55	3.48	1.58	3.55	4.44	2.07	3.23	3.96	2.14	7.16	4.51	3.30	41.97
"	Mayo	4 Crossmolina (Enniscoe) ...	5.65	7.10	3.38	5.40	4.63	2.76	1.82	4.70	2.83	10.65	7.64	5.94	62.50
"	"	4 Westport (St. Helens).....	4.79	6.12	2.45	4.94	3.50	3.13	2.06	2.81	3.49	10.10	8.40	5.01	56.80
"	"	5 Aasleagh House	11.16	11.68	4.16	10.24	8.21	4.62	2.32	6.25	6.63	18.76	15.30	8.90	108.23
"	"	6 Cong (The Glebe)	5.41	5.62	2.63	4.28	4.83	2.57	1.04	3.42	2.79	11.42	6.83	5.39	56.23
"	"	8 Dugort (Slievemore Hotel)	7.62	7.17	2.00	6.67	4.13	4.49	3.17	3.15	4.04	10.03	9.19	8.79	70.45
"	Sligo	2 Collooney (Markree Obs.) ..	3.71	4.62	1.95	5.98	4.89	3.19	2.86	4.70	2.55	8.56	7.48	4.82	55.31
XXIII.	Cavan.....	1 Killesandra (Drom Mullac)	4.86	2.94	1.66	4.69	5.63	3.41	1.93	2.37	1.40	8.03	4.50	3.23	44.65
"	Fermanagh	1 Enniskillen (Portora)	3.69	4.93	1.43	5.35	5.37	3.13	2.05	2.87	1.26	5.98	3.92	3.32	43.30
"	"	1 Belleek	3.64	5.51	1.97	5.43	4.61	3.32	3.21	3.93	2.74	7.55	5.61	3.92	51.44
"	"	1 Dartrey [Cootehill]	2.89	3.47	1.54	4.27	4.63	2.45	2.74	4.61	1.65	7.66	4.15	3.02	43.08
"	Monaghan.....	5 Armagh Observatory	2.99	3.39	1.34	3.62	6.18	2.21	1.69	3.35	.87	5.43	3.54	2.40	37.01
"	Armagh.....	2 Seaford	2.30	3.57	2.32	2.83	6.07	2.35	3.04	3.04	1.13	7.39	4.20	2.96	41.20
"	Down.....	1 Belfast (Queen's University)	2.64	4.28	2.03	3.89	5.84	1.66	3.11	1.50	.69	6.51	3.05	2.40	37.60
"	Antrim	2 Glenarm Castle.....	3.76	6.03	2.49	5.98	5.33	1.52	1.44	1.91	1.49	6.10	4.34	4.40	44.79
"	"	5 Ballymena (Harryville) ..	3.26	4.62	1.83	4.85	6.43	2.30	2.43	2.88	1.62	6.35	4.12	3.59	44.28
"	Londonderry.....	5 Limavady (Drenagh)	2.79	3.91	2.70	3.60	5.81	1.85	2.77	2.68	1.47	5.31	5.18	3.45	41.52
"	Tyrone ..	2 Cookstown (Lissan).....	2.39	4.00	1.22	4.58	4.34	1.89	.87	3.05	1.02	6.67	3.45	2.32	35.80
"	"	3 Omagh (Edenfel)	3.72	4.16	1.45	4.62	5.40	2.36	1.97	3.25	1.24	7.54	4.34	3.26	43.31
"	Donegal.....	3 Milford (The Manse)	4.07	5.13	2.32	5.89	7.43	2.39	2.29	3.39	2.30	6.80	6.33	3.28	51.62
"	"	3 Dunfanaghy (Horn Head)	4.10	5.42	2.44	4.52	6.66	1.90	2.29	3.34	2.20	7.16	5.46	4.92	50.41
"	"	5 Killybegs	6.03	6.31	2.11	9.41	6.33	3.78	2.61	4.90	4.10	10.36	7.56	5.53	69.03
"	"	8 Convoy	4.47	6.58	2.53	6.20	7.62	3.02	4.07	3.44	1.90	9.00	6.12	4.20	59.15
Ireland. Mean of 66 stations ..			3.23	4.96	2.25	3.99	4.47	2.89	2.19	3.31	2.13	8.07	6.13	3.77	47.39
BRITISH ISLES. Mean of 299 stations			3.80	5.08	3.08	2.84	3.54	2.74	2.49	3.42	2.17	6.75	5.25	4.01	45.17

SEASONAL RAINFALL, 1915-1916.

IN dealing with seasonal rainfall we have pursued the same method as in previous years and publish the usual tables with statistics for 103 selected stations. These figures were used in the preparation of maps of the winter half-year, the summer half-year, and the seasonal year ending September, 1916, and we much regret that it has been found impossible to reproduce them in this volume without greatly delaying its appearance.

During the winter half-year, October, 1915, to March, 1916, the rainfall over the country was excessive in all the large divisions taken as a whole, but showed a deficit in various districts. The largest and most intense of the dry areas was in the west and north-west of Scotland, where the deficiency reached nearly 20 per cent. at some stations affected by the drought which prevailed in the West Highlands during the last three months of 1915. Deficient rainfall occurred also in the north-west of England, and in the north and south of Ireland. There were three large areas of great excess situated respectively towards the east of England, Scotland, and Ireland, and the wettest part of each showed excesses greater than 50 per cent. In the English area excesses of more than 50 per cent. occurred over the whole of the Thames Valley, a tongue stretching westward into Herefordshire and Worcestershire, and another embracing a considerable portion of the south-east of England, including the counties of Sussex and Hampshire. A second and much smaller area, showing an excess of more than 50 per cent., occurred in the Midlands, centreing round Derby. The wettest area in Scotland centred round Braemar, where there was an excess of 55 per cent. In Ireland a restricted area in the vicinity of Dublin had an excess of 50 per cent., and over a considerable part of the east of Ireland the excess amounted to more than 20 per cent.

The general rainfall of England for the winter half-year showed an excess of 27 per cent., that of Wales, 15 per cent., of Scotland, 6 per cent., of Ireland, 12 per cent., and of the British Isles, as a whole, 16 per cent.

In the summer half-year, from April to September, 1916, the distribution of the rainfall in relation to the average again showed wide deviations

from the normal, especially on the dry side. Speaking broadly, the east coasts of the country had a rainfall above, and the south and west coasts a rainfall below the average. The wettest area was roughly the eastern half of Scotland, the greater portion of which had an excess of 20 per cent., rising to over 40 per cent. in parts of Forfar and Midlothian. The heavy rainfall covered the border counties and the area of excess extended into the northern part of England. A considerable part of the east of England, including the counties of Lincoln, Norfolk, Suffolk, and extending in a south-westerly direction into Surrey, had a general excess of about 10 per cent. The greater part of Ireland had a rainfall in excess of the average, but the excess was above 20 per cent. only in the north-west, in the counties of Donegal and Sligo, and at one point in Kerry. The greatest deficiency occurred in Cornwall, where it was more than 30 per cent. below the average. Next to this came portions of the south-coast and Pembrokeshire, and a large portion of the Midlands, where the deficit was more than 20 per cent. Practically the whole of the West Highlands and the north of Scotland had a rainfall under the average, as had the western and southern portions of Ireland, but the deficit scarcely anywhere exceeded 15 per cent. In England and also Wales the general deficiency was 9 per cent., but in Scotland and Ireland the rainfall was so nearly equalized that the excesses were 3 per cent. and 1 per cent. respectively. For the British Isles, as a whole, there was a deficiency of 3 per cent.

The combined seasonal year, ending with September, 1916, shows a much less extreme distribution of excess and deficiency of rain than either of its component halves. All the great divisions show an excess, that of England being 10 per cent., Ireland 7 per cent., Wales and Scotland 5 per cent., while the general rainfall of the British Isles as a whole was 7 per cent. in excess. The three wettest areas indicated in the map for the seasonal year naturally fall in those parts of the country which show an excess of rain both for the winter and summer half-year, viz., the east of Ireland, the east of Scotland, the Thames Valley and East Anglia. The three driest areas in the annual map likewise lie in the regions where the deficit prevailed in both half-years. Of these the largest was in the west and north of Scotland, in which the maximum deficiency reached nearly a fifth of the average at Fort William and in the isle of Mull. The areas covered by an excess of 20 per cent. in England and Scotland was of equal extent in both countries, but in Ireland an excess of this amount occurred only in a small area centred around Dublin.

Seasonal Rainfall, 1915-1916, in Relation to the Average, 1875-1909.

Div.	Stations.	Winter Six Months, October, 1915—March, 1916.				Summer Six Months, April — September, 1916.				12 Months, Oct., 1915—Sept., 1916.
		Rainfall.	Aver- age.	Difference from Average.	Per cent. of Aver.	Rainfall.	Aver- age.	Difference from Average.	Per cent. of Aver.	
		in.	in.	in.		in.	in.	in.		
I.	St. Pancras, Camden Square.....	19.44	12.38	+	7.06	14.11	12.73	+1.38	111	134
II.	Tenterden, View Tower	21.35	15.31	+	6.04	10.39	12.33	-1.94	84	115
"	Edenbridge, Falconhurst	25.15	16.75	+	8.40	15.07	13.51	+1.56	112	133
"	Patching	26.95	17.17	+	9.78	10.56	13.31	-2.75	79	123
"	Fawley, Cadland	26.14	17.89	+	8.25	10.08	13.98	-3.90	72	114
"	Sherborne St. John	24.01	15.86	+	8.15	12.75	13.31	- .56	96	126
III.	Royston, Therfield	16.66	12.02	+	4.64	12.74	13.54	- .80	94	115
"	Oxford, Magdalen College.....	18.85	11.98	+	6.87	10.45	12.60	-2.15	83	119
"	Wellingborough, Swanspool	16.88	12.27	+	4.61	9.34	12.93	-3.59	72	104
"	March	14.81	10.71	+	4.10	11.67	12.32	- .65	95	115
IV.	Shoeburyness	16.41	9.82	+	6.59	8.04	9.46	-1.42	85	127
"	Bury St. Edmunds, Westley	16.05	12.26	+	3.79	14.72	13.14	+1.58	112	121
"	Gedleston	16.69	11.91	+	4.78	12.82	11.82	+1.00	109	125
"	Holkham Hall	16.37	11.46	+	4.91	12.84	12.10	+ .74	106	124
V.	Bishops Cannings	21.28	15.70	+	5.58	12.88	15.17	-2.29	85	111
"	Evershot, Melbury House	30.17	22.27	+	7.90	14.56	15.93	-1.37	91	117
"	Ashburton, Druid House	44.42	32.16	+	12.26	16.27	19.45	-3.18	84	118
"	Barnstaple	25.96	21.30	+	4.66	12.94	15.84	-2.90	82	105
"	Falmouth Observatory	35.54	26.14	+	9.40	11.25	16.55	-5.30	68	110
"	Altarnon Sanctuary	41.18	35.83	+	5.35	16.51	23.14	-6.63	71	98
"	Litton, Sherborne Reservoir	30.74	21.38	+	9.36	19.20	18.25	+ .95	105	126
VI.	Stroud, Field Place	20.04	15.15	+	4.89	13.30	14.66	-1.36	91	112
"	Church Stretton, Wolstaston ..	21.95	16.57	+	5.38	12.57	15.84	-3.27	79	107
"	Malvern, Church Street	22.27	14.14	+	8.13	12.64	14.43	-1.79	88	122
"	Ryton-on-Dunsmore	17.40	12.93	+	4.47	10.68	13.63	-2.95	79	106
VII.	Belvoir Castle	17.81	12.54	+	5.27	11.61	13.51	-1.90	86	113
"	Revesby	18.11	12.59	+	5.52	12.81	12.56	+ .26	102	123
"	Lincöln, Skellingthorpe Hall ..	15.51	11.34	+	4.17	12.26	12.36	- .10	99	118
"	Mickleover Manor	20.64	12.75	+	7.89	10.67	13.90	-3.23	77	118
VIII.	Middlewich, Bostock Hall	16.09	14.63	+	1.46	14.18	15.33	-1.15	93	101

Seasonal Rainfall, 1915-1916, in Relation to the Average, 1875-1909—(continued).

Div.	Stations.	Winter Six Months, October, 1915—March, 1916.				Summer Six Months, April — September, 1916.				12 Months, Oct., 1915—Sept., 1916.
		Rainfall.	Aver- age.	Difference from Average.	Per cent. of Aver.	Rainfall.	Aver- age.	Difference from Average.	Per cent. of Aver.	
VIII.	Chatburn, Middlewood	in. 22.43	in. 23.39	in. — .96	96	in. 18.55	in. 20.28	in. — 1.73	91	94
IX.	Southport, Hesketh Park	16.28	16.73	— .45	97	14.09	15.97	— 1.88	88	93
	Sheffield W.W., Redmires Res....	32.20	22.20	+ 10.00	145	15.08	19.11	— 4.03	79	114
	Arncliffe Vicarage	34.68	35.66	— .98	97	24.20	25.83	— 1.63	94	96
	Goldsbrough Hall	18.00	13.44	+ 4.56	134	11.24	13.85	— 2.61	81	107
X.	Hull, Pearson Park	16.23	13.17	+ 3.06	123	12.53	13.25	— .72	95	109
	Scarborough, Osgodby	16.50	14.17	+ 2.33	116	11.51	12.23	— .72	94	106
	Darlington, Cleveland Parade ..	16.26	12.59	+ 3.67	129	13.23	13.18	+ .05	100	114
	Newcastle-on-Tyne, Town Moor ..	17.00	13.92	+ 3.08	122	13.74	14.02	— .28	98	110
	Rothbury, Cragside	22.42	18.60	+ 3.82	121	15.06	15.64	— .58	97	110
	Carlisle, Spital Cemetery	15.47	15.62	— .15	99	17.78	16.55	+ 1.23	107	103
	Borrowdale, Seathwaite	69.07	76.47	— 7.40	90	48.94	53.01	— 4.07	92	91
	Appleby, Castle Bank	22.22	18.62	+ 3.60	119	18.10	15.79	+ 2.31	115	117
XI.	Abergavenny, Larchfield	28.94	20.77	+ 8.17	139	11.42	16.34	— 4.92	70	109
	Ystalyfera, Wern School	41.82	36.79	+ 5.03	114	25.45	27.25	— 1.80	94	105
	Cardiff, Ely	29.37	23.26	+ 6.11	126	18.99	19.02	— .03	100	114
	Haverfordwest	28.46	27.12	+ 1.34	105	14.52	19.69	— 5.17	74	92
	Aberystwyth, Gogerddan	25.54	24.58	+ .96	104	20.21	20.88	— .67	97	101
	Birmingham W.W., Tyrmynydd ..	40.17	37.20	+ 2.97	108	23.95	24.86	— .91	96	103
	Wrexham, Pack Saddle Reservoir ..	20.25	17.24	+ 3.01	118	15.06	15.45	— .39	98	108
	Llandudno	17.89	16.56	+ 1.33	108	13.44	13.80	— .36	97	103
	Holyhead	23.57	19.96	+ 3.61	118	15.00	15.06	— .06	100	110
	Douglas	25.67	23.40	+ 2.27	110	20.25	18.15	+ 2.10	112	111
	Auchencairn, Torr House	28.20	25.53	+ 2.67	110	20.68	21.27	— .59	97	105
	Drumlanrig Castle	27.54	25.17	+ 2.37	109	19.20	18.54	+ .66	104	107
	Hawick, Branxholme	19.97	18.49	+ 1.48	108	17.53	15.31	+ 2.22	114	111
	North Esk Reservoir	23.55	21.46	+ 2.09	110	26.50	18.29	+ 8.21	145	126
XIII.	Marchmont House	22.92	17.06	+ 5.86	134	20.60	16.70	+ 3.90	123	129
	Airdrie, Hillend Reservoir	21.15	19.99	+ 1.16	106	22.42	17.73	+ 4.69	127	116
XIV.										

Seasonal Rainfall, 1915-1916, in Relation to the Average, 1875-1909—(continued.)

Div.	Stations	Winter Six Months, October, 1915—March, 1916.				Summer Six Months, April — September, 1916.				12 Months, Oct., 1915—Sept., 1916.
		Rainfall.	Aver. age.	Difference from Average.	Per cent. of Aver.	Rainfall.	Aver- age.	Difference from Average.	Per cent. of Aver.	
XIV.	Girvan, Pinnore	24.88	28.37	— 3.49	88	in. 21.95	in. 21.40	+ .55	103	94
XV.	Loch Thom.....	34.76	36.37	— 1.61	96	25.36	28.10	— 2.74	90	93
	Lochgilthead, Pottaloch	33.02	28.71	+ 4.31	115	24.20	22.55	+ 1.65	107	111
XVI.	Islay, Eallabus	25.69	28.38	— 2.69	91	19.12	20.41	— 1.30	94	92
	Mull, Quinish.....	25.69	32.98	— 7.29	78	19.95	23.59	— 3.64	85	81
XVII.	Loch Leven Sluice	25.84	19.86	+ 5.98	130	19.54	16.68	+ 2.86	117	124
	Balquhlder, Stronvar.....	41.91	45.08	— 3.17	93	22.88	28.69	— 5.81	80	88
XVIII.	Blair Atholl	22.81	17.91	+ 4.90	127	17.91	14.44	+ 3.47	124	126
	Dundee, Eastern Necropolis	17.66	14.08	+ 3.58	125	21.20	14.56	+ 6.64	146	136
XIX.	Fettercairn, The Burn.....	25.78	18.36	+ 7.42	140	19.94	16.39	+ 3.55	121	131
	Braemar	29.54	19.11	+ 10.43	155	16.78	15.82	+ .96	106	133
XX.	Aberdeen, Cranford House.....	18.02	17.32	+ .70	104	19.39	15.41	+ 3.98	126	114
	Gordon Castle ..	17.94	15.25	+ 2.69	118	20.25	15.09	+ 5.16	134	126
XXI.	Glenquoich	68.28	68.75	— .47	99	33.33	40.59	— 7.26	82	93
	Drunnadrochit	27.28	20.27	+ 7.01	135	19.91	15.86	+ 4.05	126	131
XXII.	Inverness High School	15.18	14.18	+ 1.00	107	16.33	12.96	+ 3.37	126	116
	Fort William, Atholl Bank	39.80	46.72	— 6.92	85	21.25	29.08	— 7.83	73	81
XXIII.	Loch Torridon, Bendamph	49.19	51.38	— 2.19	96	28.25	32.55	— 4.30	87	92
	Stornoway	31.45	30.03	+ 1.42	105	14.96	18.37	— 3.41	81	96
XXIV.	Dunrobin Castle	21.88	17.46	+ 4.42	125	14.99	14.44	+ .55	104	116
	Wick	15.67	16.13	— .46	97	11.91	13.73	— 1.82	87	92
XXV.	Glanmire, Lota Lodge.....	25.86	25.64	+ .22	101	15.64	18.44	— 2.80	85	94
	Killarney, District Asylum	33.18	33.49	— .31	99	26.25	21.32	+ 4.93	123	108
XXVI.	Valencia, Glanleam	33.72	32.08	+ 1.64	105	19.28	23.93	— 4.65	81	95
	Waterford, Brook Lodge.....	25.11	21.72	+ 3.39	116	14.44	17.85	— 3.41	81	100
XXVII.	Nenagh, Castle Lough	25.14	21.46	+ 3.68	117	16.23	17.97	— 1.74	90	105
	Ennistymon House	29.49	25.03	+ 4.46	118	19.09	21.49	— 2.40	89	104
XXVIII.	Gorey, Courtown House	27.74	18.80	+ 8.94	147	13.72	16.19	— 2.47	85	119
	Abbey Leix, Blandsfort	19.86	18.51	+ 1.35	107	18.06	17.41	+ .65	104	106

Seasonal Rainfall, 1915-1916, in Relation to the Average, 1875-1909—(continued).

Div.	Stations.	Winter Six Months, October, 1915—March, 1916.				Summer Six Months, April—September, 1916.				12 Months, Oct., 1915—Sept., 1916. Per cent. of Average.
		Rainfall.	Aver- age.	Difference from Average.	Per cent. of Aver.	Rainfall.	Aver- age.	Difference from Average.	Per cent. of Aver.	
XXI.	Dublin, Fitz William Square.....	21.71	13.84	+ 7.87	157	15.81	13.84	+ 1.97	114	136
"	Mullingar, Belvedere	22.46	18.37	+ 4.09	122	20.01	17.78	+ 2.23	112	117
XXII.	Greenore	17.03	16.23	+ .80	105	16.01	16.10	— .09	99	102
"	Tuam, Gardenfield.....	25.85	23.27	+ 2.58	111	19.05	19.42	— .37	98	105
"	Crossmolina, Enniscroe	36.34	31.04	+ 5.30	117	22.14	21.83	+ .31	101	111
"	Cong, The Glebe	31.59	27.33	+ 4.26	115	18.93	21.57	— 2.64	88	103
XXIII.	Markree Observatory	25.27	22.97	+ 2.30	110	24.17	19.74	+ 4.43	122	116
"	Belturbet, Cloverhill	16.38	17.24	— 0.86	95	17.45	16.50	+ .95	106	100
"	Armagh Observatory	16.87	15.52	+ 1.35	109	17.92	16.36	+ 1.56	110	109
"	Seaforde	23.02	20.34	+ 2.68	113	18.46	18.57	— .11	99	107
"	Belfast, Queen's University	21.74	17.40	+ 4.34	125	16.70	16.41	+ .29	102	114
"	Ballymena, Harryville.....	22.83	21.49	+ 1.34	106	20.51	19.35	+ 1.16	106	106
"	Limavady, Drenagh.....	19.39	19.93	— .54	97	18.18	17.53	+ .65	104	100
"	Omagh, Edenfel.....	20.96	20.45	+ .51	103	18.84	18.93	— .09	100	101
"	Convoy.....	27.78	25.64	+ 2.14	108	26.25	20.30	+ 5.95	129	118
England (mean of 43 stations)		23.11	18.13	+ 4.98	127	14.28	15.73	— 1.45	91	110
Wales " (9 ")		28.45	24.84	+ 3.61	115	17.56	19.15	— 1.59	91	105
Scotland " (27 ")		27.99	26.46	+ 1.53	106	20.61	19.95	+ .66	103	105
Ireland " (23 ")		24.75	22.08	+ 2.67	112	18.83	18.64	+ .19	101	107
British Isles " (103 ")		25.24	21.83	+ 3.41	116	17.30	17.81	— .51	97	107
Means.										

THE RELATION OF THE TOTAL FALL OF RAIN IN 1916 TO THE AVERAGE

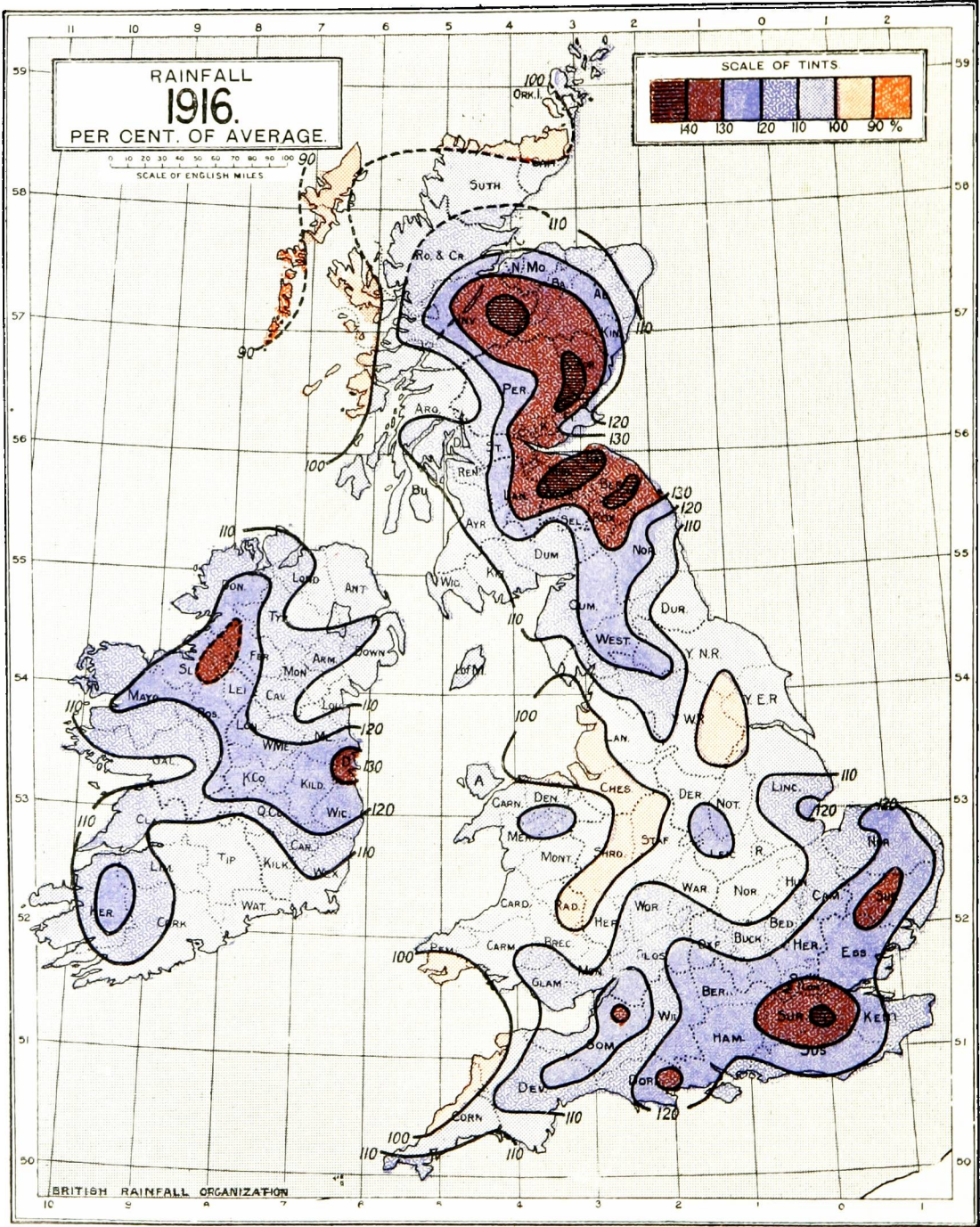
THE number of rainfall stations with records long enough to yield an average of 35 years is now very considerable ; but the distribution of these stations is unequal, and it is necessary in order to yield figures representative of wide areas to select stations which are as nearly as possible equidistant. As the weakest part of a chain is its strongest part so the thinnest part of the system of long-period stations must be adopted as the thickest part of a uniform system. Following this rule we have selected the 207 stations which are given in the long table at the end of this section. It gives the average rainfall for the ten years 1900-1909 as the last completed decade, a period sufficiently recent to be covered by the greater number of the rainfall records now running, next the average for the 35 years 1875-1909, which may be taken as the normal value, the figure being arrived at in a few cases by computing values for a few missing years. The rainfall in 1916 is then given followed by the difference from the 35 years' average first in inches and then as a percentage of the average. The mean of the values in each of the natural divisions gives a close approximation to the general rainfall and a still closer approximation to the general difference from the average in those areas, and these are set out in the following abstract :—

ABSTRACT.

COUNTRIES.	No. of Records utilized.	Average. 10 years 1900-09.	Average. 35 years 1875-1909.	1916.	Diff. from Average 1875-1909.	
					Amount.	Per cent.
		in.	in.†	in.	in.	
England.....	88	32·24	33·14	37·58	4·44	+ 13
Wales.....	17	46·88	47·25	50·45	3·20	+ 7
England and Wales.....	105	34·61	35·42	39·66	4·24	+ 12
Isle of Man	1	41·35	41·55	44·95	3·40	+ 8
Scotland	57	46·23	45·18	52·46	7·28	+ 16
Ireland	44	40·79	40·59	46·27	5·68	+ 14
British Isles	207	39·16	39·24	44·62	5·38	+ 14

The result is to show that the year was wet for each of the great divisions, wettest in Scotland, with an excess of 16 per cent., and least wet in Wales, with an excess of only 7 per cent. Ireland, as very frequently

RELATION OF RAINFALL IN 1916 TO THE AVERAGE OF 1875-1909.



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

happens, had the same excess, 14 per cent. as the British Isles as a whole.

The following short table compares the year 1916 with the six previous years for which the same average has been used, Of these only 1912

Comparison of the Total Rainfall 1910-1916 with the average 1875-1909.

Year.	England.	Wales.	Eng. and Wales.	Scotland.	Ireland.	British Isles.
1910	111	116	112	103	108	109
1911	94	101	96	101	99	98
1912	123	119	122	111	108	115
1913	96	109	98	96	107	99
1914	109	110	109	103	108	107
1915	110	105	109	92	102	102
1916	113	107	112	116	114	114

showed a greater excess of rainfall, and the difference was so slight that the two years may be said to have been practically equally wet. It will be noticed, however, that England and Wales were wetter in 1912 than in 1916, while Scotland and Ireland were wetter in 1916 than in 1912. Wetter years were experienced in 1903 and in 1882, also in 1877 and 1872; but there is reason to believe that 1916 was perhaps wetter than any, except those, in the past half century. It is interesting to notice that of the seven years compared in detail in the foregoing table only two had rainfall below the average; 1911, with a deficiency of 2 per cent., and 1913, with a deficiency of 1 per cent. It will be observed that on the whole the years have been alternately wetter and drier than the year before, the wetter years, 1910, 1912, 1914, and 1916 averaging 11 per cent. above the average, while the drier years, 1911, 1913 and 1915 were just equal to the average. Taken as a whole they present a remarkable period of high rainfall, the mean excess being 6 per cent. for the British Isles. In Wales all seven years were above the average, with a mean excess of nearly 10 per cent.

The long table of rainfall in 1916 compared with the 35 years' average shows only 13 stations out of the 207 with less than the average fall, and it is very rare to find a year with fewer; for however wet a year may be there is always some part of the country with a deficient fall.

The coloured map shows in a red tint the few small areas where the rainfall was below the average. These are four in number, *viz.*, (1) the Hebrides and the extreme north of Scotland, (2) the north-east coasts of Devon and Cornwall and the south-west tip of Wales, (3) a strip extending from the extreme north of Wales and the coast of Lancashire, through Cheshire, and southward to Herefordshire, (4) a detached patch

mainly in the east of the West Riding of Yorkshire. Only in the west of Scotland, did the deficiency amount to as much as 10 per cent. of the average.

The three English dry areas mark out a belt of relatively low rainfall extending from the Bristol Channel to the Yorkshire coast, dividing Great Britain into a south-eastern and a northern portion, in each of which the rainfall was relatively high. A third very wet area filled central Ireland.

The south-eastern wet area showed an excess of more than 10 per cent. across the whole of the south of England, from Dartmoor to Lincolnshire, and the greater part of this region, especially towards the south and east, had an excess of over 20 per cent., culminating in four symmetrically disposed patches centred respectively in the Mendips, the New Forest, Surrey and Suffolk, where the excess attained the unusual amount of more than 30 per cent., and in the heart of the largest of these patches a portion had an excess exceeding 40 per cent., this being relatively the wettest part of England for the year. The northern wet area was larger and even more remarkable, an excess of more than 10 per cent. being recorded from Yorkshire throughout the north of England and nearly the whole breadth of Scotland to the borders of Sutherland; within this, more than 20 per cent. of excess was experienced from Westmorland to the Moray Firth, and a great central core, with an excess greater than 30 per cent., filled the east and centre of Scotland from the Tweed to Inverness. In four localities centred on the lower Tweed, the Lothians, Forfarshire, and the middle Spey Valley, the excess was greater than 40 per cent. Thus, while the southern wet area extended from west to east along the south coast of England, the northern wet area extended from south to north along the east coast of Scotland, the rainfall diminishing to the average in the west of the mainland of Scotland and falling still lower in the Western Isles.

In no part of Ireland did the rainfall of 1916 fall short of the average, and the greater part of the country had an excess of more than 10 per cent., a small area in the south-west had more than 20 per cent., and a large tract extending from the east coast, between Wicklow and Drogheda, north-westward, across the centre of the country to Donegal Bay, had also more than 20 per cent. In the east of this region round Dublin, and in the north-west between Sligo and Donegal, the excess was greater than 30 per cent., a very unusual circumstance in Ireland.

The annual map of departures from the average may, of course, be viewed as built up from the twelve maps of monthly departures from the

average which have been described in a previous section, and the influence of exceptionally wet months upon the annual map can be traced in the case of each of the three regions of great annual excess. Bearing in mind the variability in the distribution of monthly rainfall, one would hardly expect to find any resemblance in the successive annual maps, but as we have shown before such resemblances do exist and there are distinct indications of progressive alteration in the distribution of light and heavy rainfall from one year to another. The relation between 1916, 1915, and 1914, is so remarkable that it is worth while to compare the coloured maps in the last two volumes of *British Rainfall* with that in the present.

In Ireland in 1914 there was an extensive wet area in the west and dry strips on the north, south, and especially the east, coasts. In 1915 the wet area had shifted to the centre and east of Ireland, more than 10 per cent. of excess occurring in Sligo, Roscommon, and King's County, and from Wexford to Dublin, and Dublin having more than 20 per cent. excess. In 1916 most of Ireland had an excess of more than 10 per cent. The two areas with over 10 per cent. excess in 1915 were merged in 1916 in one great tract with more than 20 per cent. excess, culminating near Sligo and Dublin in small patches where the excess was more than 30 per cent. Thus the general result was for the wetness to shift eastward and northward between 1914 and 1915 and to intensify in the 1915 positions in 1916. A very similar shifting and intensification of the dry areas may be traced in the maps for 1906, 1907, 1908, culminating in the very dry year 1909.

The distribution of rainfall over Scotland in 1914 was excessive in the centre, some parts of Perthshire having an excess of more than 20 per cent., deficient along the east coast and rather dry also in the extreme west. In 1915 the wet area had moved from the centre eastward to the coast, the wettest portion having shifted from Perthshire to the west of Aberdeenshire and increased in intensity to over 30 per cent. excess, while the whole west of the country was dry. In 1916 the dry area was pushed out westward to the Hebrides, while the wet area seated in the 1915 position had increased greatly both in extent and intensity, the excess at some points nearly reaching 50 per cent. Here, again, we see an eastward march and intensification of regions of excessive rainfall. A similar, though less marked progression, was shown between 1906 and 1910. The arrangement in 1910 resembled that in 1915, but there the similarity ended, the wet and dry areas changing places in 1911 instead of the wet intensifying as in 1916.

In England and Wales an exactly similar shifting to east and north of the southern wet areas may be traced from 1914 onward. In 1914 the wettest patch was in Dorset, where a small area had an excess of over 30 per cent.; in 1915 three large areas with over 30 per cent. excess reached from Dorset to the Thames, two of them with cores showing over 40 per cent. excess, while in 1916 similar areas were centred rather more to the east and north, but there was no marked intensification. Earlier years since 1906, when these comparisons became possible, do not show a clear example of similar progressive changes. It may be noted, however, that a small district in Kent, Surrey and Sussex, has shown an excess of rainfall every year since 1909 inclusive, a period of eight consecutive years.

Such orderly recurrences and progressive changes in the disturbances of the normal rainfall (which results from the interaction of prevailing winds and the configuration of the land), point to meteorological processes which act with a certain regularity for several years at a time and should, when recognized, lead to the possibility of long range weather forecasts of some value. The direction in which to look for these processes seems to us to be the surface circulation of the ocean with the periodical or occasional displacements of the great systems of cold and warm currents.

COMPARISON OF THE RAINFALL OF THE YEAR 1916 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 1916.	Difference from Average 1875-1909. Per Amount. cent
			in.	in.	in.	in.
I.	London	2 St. Pancras (Camden Square)	24·57	25·11	34·01	8·90 + 35
II.	Surrey	6 Haslemere (Hazlehurst)	35·84	36·15	46·66	10·51 + 29
	„ Kent	1 Tenterden (View Tower).....	26·34	27·64	33·68	6·04 + 22
	„ „	4 Edenbridge (Falconhurst) ...	31·06	30·26	42·44	12·18 + 41
	„ Sussex	2 Patching	29·61	30·48	37·97	7·49 + 25
	„ „	5 Hailsham Vicarage	30·02	30·48	37·23	6·75 + 22
	„ Hampshire	1 Ventnor (Flint Cottage)	27·95	28·97	33·09	4·12 + 14
	„ „	8 Sherborne St. John	29·27	29·17	35·90	6·73 + 23
III.	Hertfordshire	2 Tring (Cowroast Lock)	28·73	28·89	34·62	5·73 + 20
	„ „	3 Royston (Therfield Rectory)..	24·64	25·56	30·39	4·83 + 19
	„ Buckinghamshire ...	4 Slough (Langley)	23·52	24·18	31·43	7·25 + 30
	„ „	5 Buckingham (Adstock Fields)	24·25	25·96	28·85	2·89 + 11
	„ Oxfordshire	3 Oxford (Magdalen College)...	23·31	24·58	29·63	5·05 + 21
	„ Northampton	4 Wellingborough (Swanspool)	24·41	25·20	26·58	1·38 + 5
	„ Cambridgeshire ...	2 March	22·37	23·03	25·57	2·54 + 11

ENGLAND—(continued).

DIV.	COUNTY and river-division.	STATION.	Average 1900-09	Average 1875- 1909.	Depth in 1916.	Difference from Average 1875-1909.	
						Per Amount.	cent
			in.	in.	in.	in.	
IV.	Essex	3 Shoeburyness	18·69	19·28	22·62	3·34	+ 17
"	"	4 Chelmsford (High Street).....	22·66	23·02	28·86	5·84	+ 25
"	Suffolk	3 Rendlesham Hall.....	22·20	23·68	27·19	3·51	+ 15
"	"	5 Bury St. Edmunds (Westley)	24·11	25·40	32·95	7·55	+ 30
"	Norfolk	1 Geldeston [Beccles]	22·74	23·73	29·44	5·71	+ 24
"	"	1 Cawston Rectory	25·29	26·91	34·00	7·09	+ 26
"	"	3 Wells (Holkham Hall)	23·63	23·56	27·86	4·30	+ 18
"	"	4 Swaffham (Little Dunham)...	25·68	27·57	31·37	3·80	+ 14
V.	Wiltshire	3 Warminster (Rye Hill)	35·21	36·75	43·88	7·13	+ 19
"	"	4 Landford (Northlands)	30·04	30·11	37·01	6·90	+ 23
"	"	6 New Swindon	26·37	28·05	35·15	7·10	+ 25
"	Dorset	1 Evershot (Melbury House) ...	37·70	38·20	44·79	6·59	+ 17
"	"	3 Wareham (South Street)	32·10	31·39	40·85	9·46	+ 30
"	South Devon	2 Devonport (Rowdens Res.)...	33·78	35·58	38·56	2·98	+ 8
"	"	4 Ashburton (Druid House) ...	48·68	51·61	56·90	5·29	+ 10
"	"	6 Cullompton	33·22	35·18	45·24	10·06	+ 29
"	North Devon	2 Barnstable (N. Devon Athenæum)	35·64	37·14	36·63	·51	— 1
"	"	2 Arlington Court	53·81	53·39	56·35	2·96	+ 6
"	"	3 Okehampton (Oaklands).....	43·95	46·25	52·00	5·75	+ 12
"	Cornwall	2 Falmouth (New Observatory) ..	41·95	42·69	48·34	5·65	+ 13
"	"	2 St. Austell (Trevarna).....	43·87	46·21	50·09	3·88	+ 8
"	"	3 Altarnon Sanctuary	57·51	58·97	58·56	·41	— 1
"	"	4 Scilly (St. Mary's)	30·44	32·36	38·78	6·42	+ 20
"	Somerset	2 Street (Millfield)	28·73	29·94	36·40	6·46	+ 22
VI.	Gloucestershire	3 Stroud (Field Place)	29·03	29·81	34·78	4·97	+ 17
"	"	5 Clifton (Pembroke Road) ...	32·43	34·88	44·19	9·31	+ 27
"	"	7 Great Barrington	28·59	29·83	36·39	6·56	+ 22
"	Herefordshire	1 Ross-on-Wye	26·65	28·78	31·66	2·88	+ 10
"	Shropshire	3 Church Stretton (Wolstaston)	31·74	32·41	32·22	·19	— 1
"	Staffordshire	2 Market Drayton (Old Springs)	29·47	29·41	27·16	2·25	— 8
"	"	5 Tean (The Heath House) ...	32·10	32·65	33·05	·40	+ 1
"	Worcestershire	1 Malvern (Church Street)...	28·12	28·57	32·67	4·10	+ 14
"	"	2 Stourport (Lincombe Lock)	25·09	26·17	28·75	2·58	+ 10
"	Warwickshire	1 Ryton-on-Dunsmore	26·20	26·56	27·73	1·17	+ 4
VII.	Leicestershire	4 Thornton Reservoir.....	25·73	26·44	29·84	3·40	+ 13
"	"	4 Belvoir Castle Gardens	24·80	26·05	27·69	1·64	+ 6
"	Lincolnshire.....	3 Boston (Black Sluice)	23·21	23·35	29·05	5·70	+ 24
"	"	3 Lincoln (Skellingthorpe Hall)	22·72	23·70	26·37	2·67	+ 11
"	"	4 Louth (Westgate).....	27·30	28·74	30·36	1·62	+ 6
"	"	5 Brigg	25·83	26·21	27·34	1·13	+ 4
"	Nottinghamshire	4 Eastwood Colliery	27·78	28·46	31·70	3·24	+ 11
"	"	5 Worksop (Hodsock Priory)...	23·15	24·46	24·46	·00	0
VIII.	Cheshire	1 Woodhead Reservoir	45·59	47·97	51·39	3·42	+ 7
"	"	2 Middleswich (Bostock Hall).	29·15	29·96	29·33	·63	— 2
"	South Lancashire...	3 Bolton (Smithills Hall)	46·80	46·29	47·88	1·59	+ 3
"	Central	1 Stonyhurst College	45·88	46·79	49·38	2·59	+ 6
"	"	3 Southport (Hesketh Park) ...	31·13	32·70	31·42	1·28	— 4
"	North	2 Cartmel (Holker Hall)	46·93	44·31	46·33	2·02	+ 5
"	"	4 Wray Vicarage	43·74	44·34	49·28	4·94	+ 11
IX.	Yorks, West Riding	1 Sedbergh	52·52	52·12	65·47	13·35	+ 26
"	"	7 Sheffield W. W. (Redmires Res.)	40·25	41·31	45·53	4·22	+ 10

ENGLAND—(continued).

DIV.	COUNTY and river-division.	STATION.	Average 1900-09.	Average 1875- 1909.	Depth in 1916.	Difference from Average 1875-1909. Per Amount. cent
			in.	in.	in.	in.
IX.	Yorks, West Riding	9 Leeds (Museum)	23·89	25·51	26·16	·65 + 3
	"	9 Silsden Reservoir	26·93	29·91	35·00	5·09 + 17
	"	9 Malham Tarn	57·13	58·02	63·72	5·70 + 10
	"	10 York (Cherry Hill)	23·50	24·78	22·60	2·18 — 9
	"	11 Wetherby (Ribston Hall)	28·10	26·87	27·44	·57 + 2
	"	3 Patrington	22·40	24·05	25·25	1·20 + 5
	"	3 Hull (Pearson Park)	24·84	26·42	28·48	2·06 + 8
	"	3 Lowthorpe (The Elms)	25·09	27·35	27·92	·57 + 2
	"	1 Leyburn (Bolton Hall)	31·72	32·79	40·48	7·69 + 23
	"	2 Rounton Grange	25·56	25·82	26·36	·54 + 2
	"	4 Scarborough (Osgodby)	24·09	26·40	28·50	2·10 + 8
	"	5 Guisborough (Lockwood Beck)	31·89	33·13	36·50	3·37 + 10
X.	Durham	2 Wolsingham	31·02	33·75	35·63	1·88 + 6
	"	2 Sunderland (W. Hendon Ho.)	25·29	26·07	27·34	1·27 + 5
	"	4 Hallington (Fawcett)	28·11	28·95	35·81	6·86 + 24
	"	5 Rothbury (Cragside)	33·66	34·24	38·64	4·40 + 13
	"	5 Howick Hall	29·69	28·78	34·43	5·65 + 20
	"	6 Pawston [Coldstream]	30·47	30·34	42·09	11·75 + 39
	"	1 Carlisle (Spital Cemetery)	33·21	32·17	38·77	6·60 + 20
	"	2 Borrowdale (Seathwaite)	126·16	129·48	141·75	12·27 + 9
	"	3 Whitehaven (Irish Street)	43·57	41·70	47·03	5·33 + 13
	"	1 Appleby (Castle Bank)	35·15	34·41	43·68	9·27 + 27

MONMOUTH AND WALES.

XI.	Monmouth	3 Abergavenny (Larchfield)	34·83	37·11	37·92	·81 + 2
	"	3 Glamorgan	63·91	64·04	72·90	8·86 + 14
	"	5 Cardiff (Ely Pumping Station)	41·02	42·28	48·03	5·75 + 14
	"	2 Carmarthen (The Friary)	47·85	48·80	51·18	2·38 + 5
	"	2 Llanwrda (Dolaucothy)	55·89	56·60	60·84	4·24 + 7
	"	3 St. Davids	37·72	36·75	38·08	1·33 + 4
	"	4 Haverfordwest	45·54	46·81	43·33	3·48 — 7
	"	2 Aberystwyth (Gogerddan)	45·81	45·46	46·94	1·48 + 3
	"	4 Nanthir Reservoir [Aberdare]	57·23	59·39	67·77	8·38 + 14
	"	1 Birmingham WW (Tyrmynydd)	59·27	62·06	62·65	·59 + 1
	"	5 Lake Vyrnwy (Bank Cynon Isaf)	54·83	55·33	60·48	5·15 + 9
	"	1 Northop (Soughton Hall)	32·29	32·55	33·20	·65 + 2
	"	1 Wrexham (Pack Saddle Res.)	33·43	32·69	35·38	2·69 + 8
	"	1 Bala (Eryl Aran)	54·94	52·18	62·60	10·42 + 20
	"	3 Tan-y-bwlch (The Gardens)	62·93	62·25	65·60	3·35 + 5
	"	2 Llandudno	29·76	30·36	28·44	1·92 — 6
	"	1 Llanerchymedd (Llywdiarth Esgob)	39·66	38·57	42·27	3·70 + 10

ISLE OF MAN.

XI.	Isle of Man	Douglas (Borough Cemetery)	41·35	41·55	44·95	3·40 + 8
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SCOTLAND.

XII.	Wigtown	3 Stoneykirk (Ardwell House)	38·52	36·40	39·17	2·77 + 8
	"	2 Gatehouse (Cally)	50·04	49·15	52·15	3·00 + 6
	"	3 Dalry (Glendarroch)	55·17	52·60	57·79	5·19 + 10

SCOTLAND—(continued.)

DIV.	COUNTY and river-division.	STATION.	Average 1900-09.	Average 1875- 1909.	Depth in 1916.	Difference from Average 1875-1909.	
						Per Amount. cent	
			in.	in.	in.	in.	
XII.	Kirkcudbright	4 Auchencairn (Torr House) ...	48·94	46·80	52·39	5·59	+ 12
"	Dumfries	3 Durrisdeer(DrumlanrigGdns.)	46·22	43·71	53·62	9·91	+ 23
"	"	4 Moffat (Craigielands)	53·06	53·20	61·15	7·95	+ 15
"	"	5 Canonbie (Byreburnfoot).....	42·74	42·56	50·63	8·07	+ 19
"	Roxburgh ..	3 Hawick (Bransholme).....	32·27	33·80	43·24	9·44	+ 28
XIII.	Selkirk	5 Galashiels (Stantling Craigs)	33·63	34·75	47·40	12·65	+ 36
"	Peebles	3 N. Esk Reservoir [Penicuik]	39·94	39·75	58·75	19·00	+ 48
"	Berwick.....	4 Marchmont House	32·52	33·76	45·00	11·24	+ 33
"	Haddington	4 Prestonkirk (Smeaton)	26·00	25·47	37·68	12·21	+ 48
XIV.	Lanark	1 Biggar (Cambus Wallace) ...	30·23	30·47	43·49	13·02	+ 43
"	"	4 Airdrie (Hillend Reservoir)...	38·13	37·72	48·87	11·15	+ 30
"	Ayr	3 Kilmarnock(North Craig Res.)	45·21	40·92	46·70	5·78	+ 14
"	"	8 Girvan (Pinmore).....	53·19	49·77	51·64	1·87	+ 4
XV.	Dumbarton	2 Helensburgh (Fernigair).....	48·86	49·14	56·05	6·91	+ 14
"	Stirling	5 Strathblane (Mugdock Res.)..	43·34	46·44	52·25	5·81	+ 13
"	Bute	1 Rothesay (Crichton Road) ...	54·65	52·10	57·72	5·62	+ 11
"	Argyll	2 Loch Sunart (Glenborrodale)	69·47	66·99	68·33	1·34	+ 2
"	"	7 Kilmelfort (Arduaine)	59·13	57·60	62·90	5·30	+ 9
"	"	9 Mull of Kintyre	46·02	41·42	44·33	2·91	+ 7
"	"	10 Campbeltown (Devaar)	47·33	44·23	45·91	1·68	+ 4
"	"	14 Islay (Eallabus)	51·26	48·79	51·36	2·57	+ 5
"	"	14 Mull (Quinish)	57·55	56·57	55·55	1·02	— 2
XVI.	Kinross	2 Loch Leven Sluice ..	36·70	36·54	48·33	11·79	+ 32
"	Fife	2 Colinsburgh (Balcarres)	32·78	33·37	39·86	6·49	+ 19
"	Perth	2 Loch Dhu	81·21	78·58	87·20	8·62	+ 11
"	"	3 Balquhiddier (Stronvar)	74·43	73·77	81·02	7·25	+ 10
"	"	4 Dunblane (Kippendavie).....	45·48	39·37	53·59	14·22	+ 36
"	"	14 Blair Atholl	33·36	32·35	44·32	11·97	+ 37
"	"	15 Blairgowrie (Ballintuim Ho.)	38·58	37·68	49·44	11·76	+ 31
"	Forfar	2 Dundee (Eastern Necropolis)	27·72	28·64	40·72	12·08	+ 42
XVII.	Kincardine	1 Fettercairn (The Burn)	35·13	34·75	45·52	10·77	+ 31
"	Aberdeen	1 Braemar (Bank)	34·11	34·93	47·82	12·89	+ 37
"	"	1 Logie Coldstone (Loanhead)..	32·72	30·67	41·98	11·31	+ 37
"	"	1 Aberdeen (Cranford House)...	32·70	32·73	36·21	3·48	+ 11
"	"	4 New Deer Schoolhouse	32·89	34·74	36·04	1·30	+ 4
"	Moray	2 Gordon Castle	30·64	30·34	35·84	5·50	+ 18
"	"	3 Grantown-on-Spey	32·65	31·23	40·80	9·57	+ 31
XVIII.	Inverness	3 Kingussie	29·66	29·62	42·60	12·98	+ 44
"	"	6 Fort Augustus	45·19	44·53	59·73	15·20	+ 34
"	"	7 Glenquoich	115·15	109·34	131·23	21·89	+ 20
"	"	9 Drumnadrochit	35·08	36·13	49·19	13·06	+ 36
"	"	9 Inverness (High School).....	28·12	27·14	34·95	7·81	+ 29
"	"	13 Arisaig House	62·88	61·75	67·61	5·86	+ 9
"	"	17 Fort William.....	77·59	75·80	83·13	7·33	+ 10
"	" ..	18 Skye (Scalpay Island)	77·22	74·40	72·08	2·32	— 3
"	" ..	19 North Uist (Monach)	42·13	46·55	39·64	6·91	— 15
"	Ross & Cromarty	4 Strathpeffer	30·85	30·35	34·20	3·85	+ 13
"	" ..	5 Fearn (Lower Pitkerrie)	23·49	23·18	25·88	2·70	+ 12
"	" ..	8 Loch Torridon (Bendamph)...	90·40	83·93	88·40	4·47	+ 5
"	" ..	9 Glencarron Lodge	87·59	86·50	101·13	14·63	+ 17
"	" ..	10 Stornoway	50·48	48·40	48·98	·58	+ 1.

SCOTLAND—(continued).

DIV.	COUNTY and river-division.	STATION.	Average 1900-09.	Average 1875- 1909.	Depth in 1916.	Difference from Average 1875-1909.	
						Per Amount, cent	
XIX.	Sutherland	2 Dunrobin Castle	in. 33·07	in. 31·90	in. 35·91	in. 4·01	+ 13
	„ Caithness.....	2 Wick	31·35	29·88	27·98	1·90	— 6
	„ Orkney	Shapinsay (Balfour Castle) ...	30·57	32·13	34·78	2·65	+ 8

IRELAND.

XX.	Cork	7 Glanmire (Lota Lodge)	41·90	44·08	44·28	20	+ 0
	„	9 Mallow (Summer Hill)	38·20	38·90	43·05	4·15	+ 11
	„ Kerry	3 Killarney (District Asylum)..	50·48	54·81	69·97	15·16	+ 28
	„	4 Darrynane Abbey.....	47·76	49·95	53·20	3·25	+ 7
	„	4 Kenmare (Dromore)	70·26	64·92	70·27	5·35	+ 8
	„	6 Valencia (Glanleam)	56·10	56·01	58·11	2·10	+ 4
	„ Waterford.....	3 Waterford (Brook Lodge) ...	40·12	39·57	39·88	31	+ 1
	„ Tipperary	1 Nenagh (Castle Lough)	38·55	39·43	43·64	4·21	+ 11
	„	3 Clonmel (Bruce Villa).....	35·90	37·10	38·23	1·13	+ 3
	„	4 Roscrea (Tiinoney Park).....	36·50	36·00	38·41	2·41	+ 7
	„ Limerick	2 Foynes	39·23	39·60	45·12	5·52	+ 14
	„ Clare	2 Ennistymon House	47·77	46·52	54·28	7·76	+ 17
	„	3 Newmarket-on-Fergus.....	41·99	42·00	44·31	2·31	+ 6
XXI.	Wexford	3 Enniscorthy (Ballyhyland) ...	42·13	42·70	48·26	5·56	+ 13
	„	4 Gorey (Courtown House) ...	33·34	34·99	38·56	3·57	+ 10
	„ Kilkenny	2 Kilkenny (Lavistown House)	30·92	31·15	32·59	1·44	+ 5
	„ Queen's County ...	2 Abbey Leix (Blandsfort).....	37·70	35·92	41·81	5·89	+ 16
	„ King's County	1 Birr Castle.....	32·77	32·86	40·51	7·65	+ 23
	„ Kildare	1 Monasterevan (Moore Abbey)	32·18	32·50	40·71	8·21	+ 25
	„	2 Straffan House	30·56	31·61	38·96	7·35	+ 23
	„ Dublin	2 Dublin (FitzWilliam Square)	26·93	27·68	38·61	10·93	+ 39
	„	3 Balbriggan (Ardgillan)	28·62	29·58	37·97	8·39	+ 28
	„ Meath	1 Kells (Headfort)	34·25	37·25	39·68	2·43	+ 7
	„ Westmeath	4 Athlone (Twyford)	34·99	37·35	47·95	10·60	+ 28
	„	1 Mullingar (Belvedere)	35·89	36·15	46·07	9·92	+ 27
	„ Louth	3 Greenore	32·95	32·33	34·64	2·31	+ 7
XXII.	Galway	3 Tuam (Gardenfield).....	44·06	42·69	47·72	5·03	+ 12
	„	4 Woodlawn.....	42·19	41·57	42·77	1·20	+ 3
	„ Mayo	2 Crossmolina (Enniscoe)	54·37	52·87	62·50	9·63	+ 18
	„	4 Westport (St. Helen's)	47·10	46·20	56·80	10·60	+ 23
	„	6 Cong (The Glebe)	49·78	48·90	56·23	7·33	+ 15
	„ Sligo	2 Collooney (Markree Obs.) ...	44·40	42·71	55·31	12·60	+ 30
XXIII.	Cavan	1 Belturbet (Cloverhill)	35·52	33·74	39·59	5·85	+ 17
	„ Armagh	5 Armagh Observatory	32·09	31·88	37·01	5·13	+ 16
	„ Down	2 Seaford.....	39·47	38·91	41·20	2·29	+ 6
	„	7 Banbridge (Milltown)	31·51	31·40	34·91	3·51	+ 11
	„ Antrim	1 Belfast (Queen's University)..	35·89	33·81	37·60	3·79	+ 11
	„	5 Ballymena (Harryville)	42·52	40·84	44·28	3·44	+ 8
	„ Londonderry	5 Londonderry (Creggan Res.)	42·94	41·78	47·56	5·78	+ 14
	„	5 Limavady (Drenagh)	37·88	37·46	41·52	4·06	+ 11
	„ Tyrone	3 Omagh (Edenfel)	42·30	39·38	43·31	3·93	+ 10
	„ Donegal	3 Dunfanaghy (Horn Head) ...	45·18	44·40	50·41	6·01	+ 14
	„	5 Killybegs	60·95	60·60	69·03	8·43	+ 14
	„	8 Convoy	48·64	45·94	59·15	13·21	+ 29

EXTREMES OF RAINFALL IN 1916.

IN calling attention to the districts of highest and lowest rainfall during the year it is necessary to remind the reader that these can only be distinguished so far as the records which have come into our hands give an adequate representation of the normally very rainy or very rainless districts. The annual extremes of rainfall in each of the great divisions of the British Isles are probably always to be found within fairly well defined regions of no very great extent, and according as gauges are observed in these regions the extreme values for each year will be more or less true for the countries as a whole.

Districts of Greatest Rainfall.

The rainfall of the year did not reach 100 inches in any part of England, except the centre of the Lake District, and even here the area with that amount was rather unusually limited. The largest falls were recorded as usual on the Styne, where three gauges yielded within an inch of 199 inches, the highest giving **199·95 in.** In Wales, 100 inches fell on the highest ridges in Glamorgan, Brecon, Cardigan and Snowdonia, but the last mentioned was the only remarkable area. On Snowdon a number of gauges recorded more than 150 inches, and at Llyn Llydaw **170·89 in.** fell. The rainy areas of Scotland are of much larger extent than those of England and Wales, and the few existing gauges do not adequately represent the variations in the rainfall. The regrettable termination of the observations at the Ben Nevis Observatory leaves us in some doubt as to whether more rain commonly falls on the summit of that mountain than in the Glen Quoich district, and it is possible that other glens in the West Highlands may at times have an equally large fall. In 1916 it appears probable that 100 inches or more fell over several large areas covering a large part of the country between Loch Lomond and Glencarron. The highest falls recorded were round the head of

Loch Quoich, where **187·70 in.** fell at Loan. In Ireland, as far as the available records give any indication, no area received 100 inches except parts of the mountains of Kerry and Connemara. In the former, 110·40 in. fell at Gearahameen, and in the latter, **114·82 in.** at Delphi Lodge.

Districts of Least Rainfall.

In England less than 25 inches was confined to very small areas in the Fen District and on the coast of Essex. The smallest fall for any appreciable area was **about 22 inches** between Chatteris and Ely. In Wales less than 30 inches fell over most of Flintshire and on the extreme coast fringe of Carnarvonshire, with a minimum of rather **more than 25 inches** in the neighbourhood of the estuary of the Dee. The lowest rainfall in Scotland undoubtedly occurred round the shores of the Moray Firth, where rather **less than 30 inches** fell. It will be observed by the map facing p. [115] that the Firth of Forth area and the coasts of Haddington and Berwick, usually nearly the least rainy parts of Scotland, had, in 1916, a rainfall very largely in excess of the average. In Ireland only an interrupted and narrow strip on the east coast and a small part of the middle Shannon basin had less than 35 inches, and it is possible that small parts of the coast of Down had **less than 30 inches**.

Summary.

The rainiest part of the British Isles represented in the tables for 1916 was undoubtedly in the English Lake District, with a maximum of practically 200 inches, both Snowdonia and the West Highlands failing to give such high values. The driest areas, and the only districts with less than 25 inches also lay in England, whilst the minima on the east coasts of both Scotland and Ireland were unusually moderate.

BRITISH RAINFALL, 1916.
PART III.

GENERAL TABLE
OF
TOTAL RAINFALL IN 1916
AT
5192 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 and are complete for the year. 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, or the site for it personally selected, 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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
1.—THAMES—Right Bank Tributaries. 67 sq. mi.								
BERMONDSEY,								
D Southwark Park	London County Council...	5	9	11	19	684	26·94	169
D „ Shad Thames Pumping Station	„ „ „	6	28	5	43	681	26·80	168
D LAMBETH (Brockwell Park)	„ „ „	8	1	3	140	749	29·50	175
D „ (Brixton Hill Res.)	Met. Water Board	5	3	2	115	723	28·45	181
BATTERSEA (Battersea Park)	London County Council...	5	9	8	23	750	29·54	...
D† „ (Water Works)	Mr. F. J. Goldsworthy...	5	3	6	26	648	25·50	151
D „ Nine Elms (Heathwall)	London County Council...	8	39	4	54	661	26·01	183
WANDSWORTH,								
D† Streatham (Southwark W.W.)	Met. Water Board	5	4	1	120	739	29·11	168
D „ „ Hill Reservoir	„ „ „	5	3	1	197	737	29·01	180
D† „ (Putney Heath Reservoir)	„ „ „	5	1	0	180	768	30·23	199
D† „ (Balham High Road)	(R) P. Dodd, Esq., C.E.	6	1	6	89	835	32·89	187
D „ „ Park Road)	Mrs. G. B. Latham	5	1	0	80	788	31·02	186
D „ Wandsworth Common	F. J. Brodie, Esq.	8	1	0	105	811	31·92	191
D† „ Southfields (Coronation Gdns.) (R)	P. Dodd, Esq., C.E.	6	1	6	37	757	29·80	178
„ „ Clapham Com. (Macaulay Rd.)	Miss A. H. Boyson	5	1	0	75	773	30·44	168
„ „ „ (The Chase)	H. N. Prentice, Esq.	5	1	5	70	723	28·48	...
D CAMBERWELL, Dulwich Wood Pk.	the late W. Marriott, Esq. ..	5	1	0	250	835	32·87	190
D† „ Nunhead (Southwark W.W.)	Met. Water Board	5	1	0	173	745	29·35	186
D DEPTFORD (Telegraph Hill)	London County Council...	5	8	6	135	636	25·02	151
D† „ (Kent Water Works)	Met. Water Board	5	1	0	20	696	27·41	176
GREENWICH								
D† (Deptford Pumping Station)	London County Council...	8	4	0	18	774	30·47	166
D† „ (Royal Observatory) No. 8	Sir F. W. Dyson, F.R.S.	8	1	0	150	750	29·54	191
D† „ „ „ No. 6	„ „ „	8	0	5	150	756	29·76	193
LEWISHAM,								
D† Forest Hill (Barr Beacon)	Met. Water Board	5	3	3	340	806	31·74	189

STATIONS.	AUTHORITIES.	Rain Gauge.		Depth of Rain.		Days with '01 in. or more
		Diam.	Height Above Ground Sea Level	1916		
		in.	ft. in.	feet.	mm.	inches.
1.—THAMES—Right Bank Tributaries—(con.)						
D LEWISHAM (Clarendon Road) ...	G. E. Dacey, Esq.	5	1 0	...	796	31·32
D WOOLWICH, Eltham (High St.).	Met. Water Board.....	5	1 0	245	715	28·14
D „ Plumstead Com.(St.John's Rd.)	J. G. Waller, Esq.....	8	1 0	310	801	31·53
2.—THAMES—Left Bank Tributaries. 50 sq. mi.						
D PADDINGTON (Harrow Road) ...	C. W. Heinemann, Esq....	8	1 0	101	785	30·92
D† KENSINGTON (V. & A. Museum).	J. Storr, Esq.....	8	0 6	27	776	30·57
† „ (Nat.History Museum)	Meteorological Office	8	1 0	31	768	30·20
D „ (Holland House) ...	Mr. C. Dixon	5	4 0	68	784	30·86
† „ (Cam House)	Rt Hon Sir W Phillimore Bt	5	3 0	100	810	31·89
D† „ (Campden Hill) ...	Met. Water Board.....	8	1 0	142	902	35·50
D HAMMERSMITH (The Creek).....	London County Council...	8	15 5	35	684	26·91
D† FULHAM (Hammersmith Cemtry.)	Mr. R. J. Brown	5	1 0	16	765	30·10
D CHELSEA (Lots Road Pump.Stat.)	London County Council...	8	33 6	54	616	24·27
D „ (Western „ „)	„ „ „ „	8	1 0	19	735	28·95
D „ (Physic Garden)	W. Hales, Esq.	5	1 0	20	726	28·57
D „ (Oakley Street)	A. Hampton Brown, Esq.	5	1 0	25	741	29·18
D „ (St. Luke's Gardens)...	T.W.E.Higgins, Esq. C.E.	5	1 0	25	788	31·02
WESTMINSTER						
D „ (King's Scholars Pond)	London County Council...	8	11 6	31	741	29·16
D „ (St. George's Square)	T. H. McEwen, Esq.....	8	0 7	...	781	30·73
D† „ (Buckingham Palace)	Mr. W. Osborne.....	5	8 6	35	794	31·26
D† „ (Kensington Gardens)	Mr. W. Beecher.....	8	2 2	...	800	31·50
D† „ (St. James's Park) ...	HM Office of Works per MO	8	1 0	27	808	31·80
D „ (Hyde Park)	Royal Humane Society...	8	1 3	...	696	27·39
D „ (Spring Gardens)...(1)	London County Council...	8	66 4	95	796	31·33
D „ („ „)...(2)	„ „ „ „	12	65 11	95	793	31·23
D „ („ „)...(3)	„ „ „ „	8	6 0	35	802	31·56
D „ (Strand)	J. J. Steward, Esq.	5	40 0	80	801	31·55
ST. MARYLEBONE,						
D† „ Regent's Pk (R Botanic Gdns)	Mr. J. L. North	8	1 0	130	879	34·60
D „ (33, Hamilton Terrace).....	E. Heron Allen, Esq	5	0 6	...	773	30·43
D „ (Ormond Terrace)	Mrs. Hamlyn Price	5	1 5	145	807	31·78
D† HAMPSTEAD (Barrow Hill Res.)..	Met. Water Board.....	5	3 4	197	850	33·46
D „ (Kempnay Road) ..	C. Clarke, Esq.	5	2 0	...	711	27·99
D† „ (Kidderpore Res.)...	Met. Water Board	5	1 0	322	676	26·62
D „ (New End Square)...	Mr. W. Pikesley	5	1 0	...	832	32·75
D† „ Observatory	E. L. Hawke, Esq.	8	1 0	451	874	34·39
D† ST. PANCRAS (Camden Square)	Dr. H. R. Mill	8	0 9	111	864	34·01
D† „ („ „) Snowdon	„ „ „	5	1 0	111	848	33·38
† „ („ „) weekly	„ „ „	5	1 2	111	867	34·13
† „ („ „) float g. M	„ „ „	8	0 11	111	856	33·71
STOKE NEWINGTON						
D† „ (New River Filter Beds)	Met. Water Board.....	5	1 0	101	800	31·48
D† „ „ („ „ Reservoirs)	„ „ „	5	1 0	105	814	32·04
D HACKNEY (Clapton Pond).....	Norman Scorgie, Esq., C.E.	5	1 0	·69	822	32·37
D „ („ „) ... (R)	„ „ „ „	8	2 6	70	821	32·34
D† HOLBORN (Stone Yard).....	E. F. Spurrell, Esq.	5	12 0	89	759	29·89
D† FINSBURY (New River Head) ...	Met. Water Board.....	5	1 0	95	790	31·11
D CITY OF LONDON (Guildhall) ...	E. E. Finch, Esq., C.E....	8	49 0	99	775	30·52
D „ „ „ („ „) ...	„ „ „ „	8	2 6	46	730	28·74

DIVISION I.—LONDON—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above			1916		
			Ground	Sea Level				
2.—THAMES—Left Bank Tributaries—(con.)		in.	ft.	in.	feet.	mm.	inches.	
BETHNAL GREEN (Victoria Park)	London County Council...	5	9	3	43	610	24.00	...
D POPLAR, Isle of Dogs (Stewart Rd.)	„ „ „ ...	8	1	0	15	791	31.13	185
„ (Island Gardens)	„ „ „ ...	5	4	6	...	765	30.12	...
D† „ (Old Ford Pump. Station)	Met. Water Board	8	0	9	19	734	28.90	176
D „ („ „ Penstock Ho.)	London County Council...	8	1	0	43	730	28.74	182
D WOOLWICH (N. Woolwich Pumpg. Sta.)	„ „ „ ...	8	0	9	12	720	28.34	156
D „ (Barking Outfall) ...	„ „ „ ...	8	0	9	9	681	26.81	198

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	1064	41.90	184
" (Grayswood Tower)...	S. Barker, Esq.	5	1	0	625	1101	43.33	181
Godalming (Rockwoods, Brook)	<i>Surrey Advertiser</i>.....	...	...	...	450	1000	39.38	...
Oakwood Vicarage.....	Rev. Canon J. Shearme...	5	0	9	285	929	36.57	175
Abinger (Joldwynds, Holmbury)	Mr. F. Cornish	5	1	0	550	1085	42.71	191
2.—MEDWAY. 50 sq. mi.								
† Felbridge (Chartham Park).....	Lieut. T. D. Margary ...	5	1	0	270	999	39.32	203
† Dormans Park (Hill Crest)	Mrs. H. R. Mill	5	1	0	320	1036	40.78	207
Lyden Croft [Edenbridge]	Surg.-Gen. C. Planck	8	1	0	212	883	34.75	198
Oxted (Stone Hall)	W. P. Metcalfe, Esq.....	5	1	2	320	945	37.20	198
Limpsfield (Ballards Shaw)	F. C. Bayard, Esq.	5	1	1	500	929	36.59	210
3.—THAMES—Darent. 22 sq. mi.								
Chelsham (Fairchildes)	A. S. Daniell, Esq.	8	1	0	600	1048	41.26	...
" (")	Mr. G. T. Mansfield	5	0	10	600	1046	41.19	...
Addington (Hares Bank Pump St.)	F. C. Bayard, Esq.	8	1	0	331	922	36.28	199
† " Hills Reservoir	" " "	8	0	9	473	913	35.93	219
South Norwood (Woodside Vic.)	Rev. Sir P. M. Bowman, Bt.	5	1	0	...	810	31.88	172
" (Holmesdale Road)	E. A. Martin, Esq.	5	1	0	200	819	32.25	187
" (Apsley Road) ...	W. H. Cullis, Esq.	5	1	2	125	752	29.59	169
Norwood (Auckland Road)	Miss J. Cooper	5	1	5	230	725	28.53	165
Penge Recreation Ground.....	A. J. Elson, Esq.	5	1	6	120	774	30.48	157
4.—THAMES—Wandle. 71 sq. mi.								
Kingswood (Margery Hall Res.)	W. Vaux Graham, Esq. C.E.	5	1	0	691	966	38.02	172
Upper Gatton.....	F. Druce, Esq.	5	1	0	601	1098	43.24	200
Woldingham Reservoir	W. Vaux Graham, Esq. ...	5	1	6	851	972	38.26	...
Caterham Reservoir	A. E. Cornwall-Walker Esq.	5	1	0	705	1116	43.95	208
Chaldon Rectory	F. C. Bayard, Esq.	5	1	0	542	1129	44.46	174
Chipstead (Eyhurst)	D. Morphew, Esq.	5	0	11	538	928	36.53	196
" (Walpole Avenue) ...	F. C. Bayard, Esq.	5	1	0	530	967	38.08	...
Caterham Asylum	" " "	5	1	0	607	1074	42.28	179
Chelsham & Woldingham W.W.	W. Vaux Graham, Esq. ...	5	1	0	479	1112	43.78	194
Warlingham (The Larches)	Mrs. B. F. Harris	5	1	0	615	1126	44.35	215
" (Redvers Road) ...	R. H. Curtis, Esq.	8	1	0	610	1152	45.34	214
Caterham Valley (Mount Vernon)	M. Ll. Evans, Esq.	5	0	10	500	1233	48.54	...
" " Dépôt	A. E. Cornwall-Walker Esq.	5	1	6	431	1120	44.08	229
Netherne (Surrey County Asylum)	F. C. Bayard, Esq.	5	1	0	560	1017	40.04	193

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above		1916			
			Ground	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
SURREY—(con.)								
4.—THAMES—Wandle—(con.)								
Banstead (Burgh Heath)	Capt. E. R. Taylor.....	5	1	0	571	970	38·21	192
" " " " Reservoir)	W. Vaux Graham, Esq C.E.	5	1	0	570	1027	40·42	189
Chipstead (The Lodge)	F. E. Goad, Esq.	5	0	9	525	1022	40·22	195
" (How Green Reservoir)	W. Vaux Graham, Esq C.E.	5	1	0	528	985	38·79	186
Kenley (Elmhurst)	Mrs. Jay Jones	5	0	8	430	1055	41·54	201
" Pumping Station.....	A. E. Cornwall-Walker Esq	5	1	6	275	974	38·33	210
Purley (Oakwood Avenue)	E. W. Finch, Esq.....	5	0	10	380	943	37·11	191
" (Riddlesdown Road) No.1	J. Edmund Clark, Esq....	5	1	0	360	1005	39·58	216
" " " " No.2	" " " " " "	5	1	0	360	994	39·15	216
" (Pumping Station)	A. E. Cornwall-Walker Esq	5	1	0	215	932	36·71	203
Sanderstead (Beechwood Road)..	E. Alexander, Esq.	5	1	0	370	942	37·09	196
South Croydon (Avondale Road)	Dr. G. J. Hinde, F.R.S....	5	1	0	225	919	36·19	201
Wallington (Alcester Road).....	F. C. Bayard, Esq.	5	4	1	140	913	35·93	199
" "								

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.		Days with 0.1 in. or more	
		Diam.	Height Above		1916			
			Ground	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
SURREY—(con.)								
5.—THAMES—Mole & c—(con.)								
Betchingley (South Park Farm)	W. Lambert, Esq.	5	0	4	340	1002	39.43	188
Betchworth (Snower Hill)	T. Du Buisson, Esq.	8	0	9	250	881	34.70	198
† „ (Sandhills)	C. J. Whittington, Esq.	5	1	0	250	906	35.68	212
D† „ (The Holmes)	F. R. Rushton, Esq.	5	0	8	322	966	38.01	216
D† Buckland (The White House)	J. Herbert Scrutton, Esq.	8	1	6	260	993	39.09	200
Reigate (Hatherlow Observatory)	S. T. Klein, Esq.	5	0	9	405	956	37.65	182
Mickleham (Juniper Hall)	G. MacAndrew, Esq.	5	1	0	183	1024	40.31	...
† „ (Norbury Park)	Mr. G. Kent	8	1	0	500	960	37.80	...
D Headley Rectory	Rev. T. E. R. Phillips	5	1	0	575	954	37.54	197
D „ (The Hurst)	F. C. Bayard, Esq.	5	1	3	420	961	37.85	187
Walton-on-the-Hill (Walton Manor)	Mr. T. W. Dudley	5	1	0	600	958	37.73	194
D Tadworth (Warren Gate)	W. J. Saunders, Esq.	5	1	6	577	919	36.18	193
D Ashtead (D'Abernon Chase)	F. C. Bayard, Esq.	5	1	0	280	895	35.23	162
D† „ (Oakfield Road)	H. F. Acocks, Esq.	5	1	4	180	813	32.02	164
D „ („ „)	„ „ „	5	1	0	180	822	32.35	165
D† „ (The Hut)	F. C. Bayard, Esq.	5	0	5	200	827	32.55	175
D Cobham (Hatchford Park)	Sir H. B. Samuelson, Bart.	5	1	0	170	993	39.10	163
Oxshott (Oaklands)	J. J. Morrish, Esq.	...	0	6	246	847	33.33	...
D Banstead (The Hall)	F. C. Bayard, Esq.	8	1	0	480	902	35.53	196
D Epsom (The Durdans)	J. Barclay, Esq.	8	0	11	217	874	34.41	182
D „ (Waterworks)	E. R. Capon, Esq.	8	1	0	125	800	31.49	184
D Weybridge (Burcote)	Mrs. C. Sanger	5	0	9	117	785	30.92	188
D Sutton (Camborne Road)	F. E. Wright, Esq.	5	1	0	250	924	36.39	192
D Claygate (Hertslets)	N. C. Armitage, Esq.	5	1	0	106	748	29.45	206
D Esher (Sewage Works)	F. C. Bayard, Esq.	5	1	0	42	741	29.18	175
D Sutton (High School, Cheam Rd.)	Miss C. Philip	5	1	0	197	834	32.85	176
D „ (Water Works)	W. Vaux Graham, Esq. C.E.	5	1	6	166	880	34.66	173
D „ (Sewage Works)	W. H. Grieves, Esq., C.E.	8	1	0	100	1016	39.98	170
D† Surbiton (Seething Wells)	Met. Water Board	5	0	10	34	728	28.65	186
D East Molesey (Ember House)	Wilfrid Taylor, Esq.	5	1	0	30	803	31.61	178
D† West Molesey (Walton Works)	Met. Water Board	5	0	6	35	709	27.91	175
New Malden (Sewage Works)	R. H. Jeffes, Esq., C.E.	5	1	3	45	742	29.23	...
D „ „ (Edenfield)	W. J. Carter, Esq.	5	1	0	40	828	32.60	182
Kingston (Palace Road) ... No. 1	Charles Price, Esq.	5	0	10	30	778	30.65	179
„ „								

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground.			1916		
			in.	ft.	in.	feet.	mm.		inches.
SURREY—(con.)								
6.—THAMES—Wey—(con.)								
d† Haslemere (Courts Hill)	Miss Penfold	8	4	8	481	1120	44.09	207
d „ (Altyre)	A. G. Witcher, Esq. ...	5	1	0	552	1098	43.24	209
„ (Frensham Hall) No.1	Samuel Kevan, Esq.	5	0	9	475	1088	42.82	...
„ („ „ „) No.2	„ „ „ „	5	2	3	625	1108	43.61	186
d „ (Beech Road)	J. Jackson, Esq.	5	0	9	540	1141	44.93	202
d† „ (Hazelhurst)	Mrs. T. P. Newman	5	1	0	550	1185	46.66	219
d† Hindhead (Stoatley Hall)	Mr. H. Simmons	5	1	0	800	1074	42.30	177
d Churt (Furze Hills)	Rev. Clements G. O. Bond	5	1	6	390	1086	42.76	203
„ Witley (Sandhills)	L. W. Lodge, Esq.	8	1	0	450	1037	40.81	212
d „ (King Edward's School)	J. Wood, Esq.	5	1	3	330	1083	42.63	204
d „ (Great Roke)	Mrs. Dixon	5	6	0	300	986	38.80	201
d „ (The Mount)	Mrs. J. H. Foster	5	1	0	375	1059	41.68	221
„ Hambledon (Hydon End)	Surrey Advertiser .....	...	...	...	...	1052	41.43	...
d Hascombe Place	C. T. Musgrave, Esq.	8	1	0	390	994	39.15	180
„ Cranleigh (Stonewall)	W. Welch, Esq.	5	1	0	182	989	38.94	...
d Bramley (Grafham Grange)	S. A. Shepherd, Esq.	8	0	4	180	943	37.12	167
d Godalming (Abbot's Wood)	Hon. A. J. Davey	5	1	0	400	940	37.02	195
d Ewhurst (Downhurst Lodge)	Mr. W. Bradfield	5	1	0	350	984	38.74	206
„ (Garlands)	G. Johnston, Esq.	5	2	6	360	1015	39.95	174
d „ (Coneyhurst)	Mr. J. Russell	8	1	0	581	987	38.85	204
„ (Woolpit)	Mr. H. W. Perrin	8	1	6	600	989	38.93	...
d Godalming (Busbridge Hall)	G. Weston, Esq. ....	...	...	...	380	892	35.11	...
d „ (Milford House)	Capt. F. D. Webb	5	1	0	304	938	36.93	152
d Shamley Green (Lee Crouch)	P. E. W. Street, Esq.	5	1	0	165	906	35.68	203
d Godalming (Charterhouse)	O. H. Latter, Esq.	5	1	0	315	932	36.69	217
d Peper Harow (Glebe House)	George Marsh, Esq.	5	1	0	200	934	36.78	169
„ Shackleford (Hall Place)	Mr. E. Nash ...	8	1	6	200	914	36.00	153
d Peaslake (Southcots)	H. M. Gregory, Esq.	5	0	10	450	1179	46.40	199
d Bramley (The Limes)	Rev. C. J. Etty ...	5	1	0	136	958	37.70	190
„ Wonersh (Little Tangley)	Mr. H. Crane	5	1	0	200	884	34.80	171
d Farnham (Charleshill)	Mrs. Oliver	5	1	0	230	854	33.63	197
„ (Bourne Corner)	Miss I. M. Deedes	5	1	0	357	809	31.86	...
d Shere (Burrows Lea)	Miss Barnard	8	1	0	400	973	38.29	215
d „ (Coombe End)	Bertram R. Warren, Esq.	8	1	3	286	978	38.49	156
d „ (Manor House)	Sir R. A. Bray	5	1	0	350	990	38.96	202
„ Albury (Dalton Hill Gardens)	Surrey Advertiser .....	...	...	...	...	858	33.78	...
d Abinger (Feldemore)	E. Waterhouse, Esq.	5	3	6	505	1064	41.90	180
d „ Hall	Lord Farrer	8	2	0	320	1160	45.67	202
d Farnham (Crooksbury Ridges)	F. R. Walters, Esq. M.D.	5	1	4	440	918	36.14	212
d „ (High Park Road)	V. B. Longhurst, Esq.	5	1	1	260	929	36.59	206
d „ (Short Heath)	Morris Birkbeck, Esq.	5	1	0	352	928	36.53	209
d „ („ „ „ Lodge)	Col. G. Chrystie	5	1	0	365	892	35.10	205
d Seale (Great Down)	Mrs. Kitchin	12	1	0	470	858	33.80	163
d „ (Poylehill House)	C. B. Penlington, Esq., C.E.	5	0	9	401	882	34.72	201
„ Gomshall (The Croft)	Surrey Advertiser .....	...	...	...	...	1005	39.55	...
d Guildford (Piccard's Rough)	H. A. Powell, Esq., M.D.	5	6	0	330	821	32.34	183
„ (Briarfield)	Miss M. E. Swaine	5	2	6	300	944	37.15	165
„ (Roy. Grammar Sch.)	H. N. Weller, Esq.	5	1	2	200	859	33.81	...
d „ (Newlands Corner)	Mr. H. Tann	5	1	6	550	962	37.87	216

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
SURREY—(con.)								
6.—THAMES—Wey—(con.)								
D Guildford (Cross Lanes)	F. F. Smallpeice, Esq.....	5	0	8	200	905	35·62	195
D Merrow (Craigie)	Miss Lomer.....	5	0	9	250	909	35·80	185
" " " Paddock	" " " "	5	0	9	250	936	36·85	185
High Clandon	F. B. Eastwood, Esq.....	5	0	6	500	945	37·22	...
D Horsley Towers	The Earl of Lovelace.....	8	1	2	285	1036	40·77	218
Worplesdon (Perry Hill School).	<i>Surrey Advertiser</i>.....	...	...	...	...	820	32·30	...
Send (Sendholme) .....	" " " " .....	...	...	...	...	853	33·59	...
D Mayford	A. R. Ricardo, Esq.	5	1	4	145	849	33·42	159
D Woking (Hook Heath)	W. S. Patterson, Esq.	5	1	0	160	787	31·00	170
" (County School)	<i>Surrey Times</i>.....	...	...	...	...	811	31·94	...
D " (The Grange)	Rev. F. Wilson	5	0	8	78	839	33·02	210
D " (The Green)	Mrs. Howlett	5	0	9	136	808	31·83	159
" (Normanhurst)	George Duffas, Esq.	5	1	3	180	826	32·58	...
Pyrford (Wintergreen Wood) ..	<i>Surrey Advertiser</i>.....	...	...	...	...	766	30·15	...
D " (Southbourne)	C. Echlin Gerahty, Esq.	5	1	0	100	794	31·26	186
D Horsell (The Vicarage)	Rev. Norman Pares	5	1	9	140	807	31·76	177
D " (Kettlewell Hill)	Claude Marzetti, Esq.....	5	0	9	115	805	31·70	172
D Wisley (R.H.S. Gardens)	S. T. Wright, Esq.	8	1	0	150	791	31·14	179
" (West Hall Gardens) ..	Mr. G. Carpenter	5	1	6	61	799	31·45	...
D West Byfleet (Kilmeena)	F. Littleboy, Esq.....	5	1	0	100	798	31·40	178
D " (Hollywood)	Allanson Bailey, Esq.....	5	1	1	100	815	32·10	189
D Byfleet (Woodbine Cottage).....	J. E. Dowell, Esq.....	5	1	1	59	784	30·88	189
D " Rectory.....	Rev. G. E. Money	8	0	11	50	886	34·89	185
D Weybridge (St. George's Hill)...	H. J. Bond, Esq.	5	0	8	150	740	29·12	185
" Common(The Birches) ..	<i>Surrey Advertiser</i>.....	...	...	...	...	775	30·52	...
" (Field Place)	Mrs. Yool	5	1	0	109	764	30·08	...
D " (Heath Field).....	Miss A. T. Gardiner ..	5	1	0	100	814	32·05	186
D " (West Oaks)	A. Whittet, Esq.	5	1	0	36	729	28·70	183
" (Fairhaven)	late Comm. C. Paget, R.N.	5	0	10	60	814	32·06	192
7.—THAMES—Bourne. 55 sq. mi.								
D Brookwood (Knapp Hill)	Mr. G. C. H. Simmonds...	5	1	0	181	846	33·30	194
" " " " Lynbrook) ..	C. Wigan, Esq.	5	1	8	200	794	31·26	...
D Chobham (Sandpit Hall)	K. A. H. Power, Esq.....	5	1	0	100	803	31·63	185
D " (Chobham House).....	Miss C. M. Perceval	5	2	0	80	886	34·90	185
D " (The Manor House) ...	F. A. Walter, Esq.	5	1	0	150	827	32·56	186
Bagshot (Pennyhill Park)	<i>Surrey Advertiser</i>.....	...	...	...	...	922	36·32	186
D Chertsey (Ottershaw)	Mrs. R. H. Otter	5	1	0	200	790	31·10	206
" (Long Cross)	F. A. Baker, Esq.....	5	3	0	205	690	27·17	...
D " (Botleys Park Gardens) ..	H. Gosling, Esq.	5	1	5	111	780	30·72	178
D† Sunningdale (The Camp)	Lady Hooker	5	1	2	252	845	33·27	180
D Virginia Water (St. Ann's Heath)	Rev. J. Peck	8	1	1	120	751	29·55	189
Englefield Green (Queenswood) ..	W. G. Rigden, Esq.	8	2	0	200	884	34·81	184
8.—THAMES—Loddon. 17 sq. mi.								
D Frimley Green Waterworks ...	F. J. Garland, Esq.	5	2	6	220	697	27·43	163
D " " (Brompton San.) ..	A. L. Bartlett, Esq.	5	0	4	380	860	33·84	189
D " " (Ridgemount) ...	C. C. Haviland, Esq.....	5	0	9	350	849	33·43	206
D " (Tomlinscote)	Mr. T. Dawson	5	1	9	200	834	32·83	222
D Camberley (Springfield Lodge) ..	Lt.-Col. A. de B. V. Paget	5	1	6	350	835	32·86	183

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
KENT. (Area, 1532 sq. mi.)								
1.—ROTHER & C. 217 sq. mi.								
D Hawkhurst (Hensill).....	F. Ross Thomson, Esq....	5	3	0	200	945	37·22	171
Tenterden (Summerhill)	Mrs. Wilkin	8	1	0	150	871	34·29	203
„ „								

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above		1916			
			Ground	Sea Level	mm.	inches.		
KENT—(con.)		in.	ft.	in.	feet.			
2.—STOUR & C—(con.)								
D† St. Peter's Court	A. J. Richardson, Esq....	5	1	0	135	687	27·03	178
D Birchington (Hollydene)	W. Tomlin, Esq., Junr....	6	6	0	75	638	25·10	156
D† „ (Rose Bank)	Mr. G. Hoare	5	5	0	45	651	25·64	176
D† „ (Fernleigh)	R. Grant, Esq.	5	1	0	40	660	25·98	183
D Margate (Cliftonville)	(R) J. W. Gunnis, Esq.	8	1	0	110	733	28·85	191
D „ („)	C. J. Pemble, Esq.....	5	1	0	53	580	22·82	167
3.—SWALE & C. 167 sq. mi.								
D Selling (Luton)	F. Ivo Neame, Esq.	5	4	9	263	897	35·30	195
D Bicknor Rectory	Rev. E. W. Edwards.....	5	1	6	517	827	32·55	171
D Ospringe (Lorenden)	Walter C. Stunt, Esq....	5	1	6	180	772	30·38	176
D Teynham (New Gardens)	Col. J. F. Honeyball	5	1	5	30	714	28·10	163
D Faversham (Uplees Marshes) ...	W. J. Wright, Esq.	5	4	4	9	559	22·00	196
D Whitstable (Western House) No.1	J. W. Hayward, Esq....	5	0	10	17	659	25·94	165
D „ („ „ „) No.2	J. Roberts, „ „ „ „ ..	5	0	11	17	672	26·45	166
D Herne Bay (Water Works)	J. Roberts, Esq.....	5	0	6	122	656	25·84	...
D† Sheppey (Eastchurch, Old Rides)	H. C. Warren, Esq.	5	2	0	40	663	26·09	...
4.—MEDWAY. 506 sq. mi.								
D Woodchurch (Hengherst)	Capt. Somerset Webb.....	5	1	0	152	820	32·27	187
D Kilndown School)	J. A. Ager, Esq.	5	1	0	365	940	36·99	177
D Scotney Castle	E. W. Hussey, Esq.....	5	3	9	203	857	33·74	...
D Goudhurst (Finchcocks)	Mr. C. R. Pratt	5	2	1	155	931	36·67	194
D „ (Maypole)	G. Parker Hinds, Esq....	8	1	8	412	915	36·04	165
D „ (Lidwells)	Rev. H. P. FitzGerald...	5	1	0	260	879	34·62	197
D „ (Brandfold)	Dr. Douglas	5	2	0	238	934	36·79	187
D Horsmonden (Broad Ford House)	Mrs. L. E. Maude	5	1	0	96	896	35·28	202
D Biddenden (Augustus Villa) ...	E. Donne, Esq.	5	0	8	175	940	37·02	190
D Tunbridge Wells (Hawkenbury)	D. W. Horner, Esq.	5	1	6	435	1028	40·48	195
D „ „ (Calverley Park)	Dr. F. C. Linton	5	1	0	356	906	35·69	187
D „ „ (Courtlands) (R)	E. Weldon, Esq.	8	5	6	470	961	37·84	181
D† Speldhurst (Etherton Hill)	E. W. Winton, Esq.....	5	1	5	282	966	38·01	185
D Pembury Waterworks	W. H. Maxwell, Esq., C.E.	8	1	8	196	875	34·46	181
D „ (Brackenhurst)	Miss Fowler	5	1	0	416	940	37·01	207
D Paddock Wood (Matfield Grange)	J. A. Perkin, Esq.....	5	0	9	370	965	38·01	194
D Southborough (The Old Hall) ...	G. H. Beecheno, Esq. ...	5	1	0	375	894	35·18	160
D Edenbridge (Falconhurst)	Hon. Mrs. John Talbot...	5	1	6	375	1078	42·44	184
D Markbeece (Edells)	Miss M. F. Pearse	5	1	0	320	859	33·83	232
D „ (High Buckhurst)	Edmund Dean, Esq.	5	1	0	400	950	37·39	177
D Chiddingstone Hoath (Truggers)	Alsager Vian, Esq.	5	0	8	360	1016	40·00	211
D Staplehurst (Coppwilliam Farm)	J. Norris, Esq.	5	1	4	100	785	30·92	193
D Penshurst Park	Mr. J. M. Sturgess	5	0	9	265	826	32·52	176
D „ Place	Lord De L'Isle	5	1	0	115	1003	39·49	192
D Tonbridge (Mabledon Park)	J. F. W. Deacon, Esq....	5	1	2	190	844	33·24	169
D „ (Brooklands)	G. J. Kimmins, Esq.....	5	0	10	120	826	32·50	164
D „ (Pinnacles)	A. H. Neve, Esq.	5	1	0	140	833	32·78	174
D „ („)	M „ „ „ „ ..	5	1	0	140	837	32·96	...
D Hadlow Place	C. J. G. Hulkes, Esq.....	5	1	0	80	788	31·04	212
D „ (Golden Green)	F. W. E. Shrivell, Esq....	5	1	0	100	803	31·62	192
D Hildenborough (Hollanden Ho.)	C. H. Scott, Esq.	8	1	0	100	810	31·89	189
D Ulecombe Place	A. O. Walker, Esq.	5	1	0	350	767	30·21	189

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 01 in. or more
		Diam.	Height Above			1916		
			Ground	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
KENT—(con.)								
4.—MEDWAY—(con.)								
d Linton Park	Mr. C. Pratt	5	0	8	...	826	32.54	185
d Langley (Rumwood Court)	Mr. W. J. Gould	5	1	9	354	828	32.62	188
d Otham (Synyards)	Ambrose Boyson, Esq.	5	1	0	315	820	32.29	210
d Leeds (Schoolhouse)	H. E. Bridge, Esq.	5	1	0	217	744	29.28	208
d Wateringbury (The Limes)	Alan Lambert, Esq.	5	3	0	130	744	29.27	...
d Sevenoaks (River Hill).....	Lt.-Col. J.M.Rogers, D.S.O.	8	4	0	535	883	34.75	182
d " (Soar Farm, Plaxtol).....	H. Stonham, Esq.	5	3	0	300	840	33.08	162
d Maidstone (Lower Tovil)	Lawrence Green, Esq.....	5	1	0	80	742	29.20	209
d " (W.W., Barming) ...	W. J. Ware, Esq., C.E....	8	1	6	250	748	29.43	180
d " (Brenchley Gardens)..	T. F. Bunting, Esq., C.E.	5	0	9	50	741	29.17	180
d " (Mill Street).....	" " " "	8	6	0	38	742	29.20	183
d East Malling (Broadwater)	C. B. Mercer, Esq.	5	1	6	169	815	32.08	196
d West Malling (St. Leonards) ...	G. Phillips, Esq.	5	1	0	...	911	35.85	192
Maidstone (Allington Lock)	Mr. W. Smith	5	1	0	45	776	30.55	180
" " (Nursery).....	Messrs. G. Bunyard & Co.	5	1	6	112	796	31.36	...
d Detling (The Croft)	R. Cooke, Esq.	5	1	2	330	841	33.10	236
d " " " "	" " " "	5	1	0	330	859	33.82	236
" " (Pollhill Fields)	" " " "	5	1	0	...	788	31.01	...
Halling Pumping Station.....	L. Holman, Esq.	5	1	0	75	760	29.90	...
d Rainham (Mardale House)	Dr. F. W. H. Penfold ...	5	12	0	85	770	30.31	193
d Chatham (Luton W.W.)	W. Coles Finch, Esq.....	5	3	0	88	700	27.55	163
d Rochester (Knights Place)	Miss F. H. Pye	5	3	0	320	741	29.19	169
Strood Water Works	W. Banks, Esq., C.E.....	5	3	0	112	718	28.27	177
d Frindsbury (The Shrubbery) ...	Warwick Stunt, Esq	5	1	6	150	681	26.80	169
d " (Stonehouse Farm)..	E. W. Wood, Esq.....	5	5	0	20	808	31.79	160
d Hoo St. Mary (St. Mary's Hall)..	H. Pye, Esq.	5	5	6	146	681	26.80	203
5.—THAMES—Darent. 256 sq. mi.								
d Westerham (Quebec Square) ...	Met. Water Board.....	5	1	0	380	1049	41.29	187
d " Hill Pumping Stat.	" " " "	5	1	0	539	1008	39.67	195
d Sevenoaks (Tonbridge Rd. Res.) M	A. Grainger, Esq.	5	1	6	556	908	35.75	...
d " (The Old House)	W. Tattersall, Esq.	8	1	0	510	932	36.69	196
d " (Speldhurst Close) ...	Rev. D. D. Mackinnon...	5	1	0	470	899	35.39	193
d Tatsfield (Betsom Hill)	Met. Water Board.....	5	0	7	820	1053	41.46	197
d Seal (St. Lawrence Reservoir) ...	A. Grainger, Esq.	8	1	0	665	890	35.03	...
d " (Oak Bank Reservoir)	" " " "	8	1	0	550	908	35.75	...
d " (Wildernesse Gardens).....	Mr. J. Shelton	5	1	0	300	860	33.86	186
d " (Kemsing Pumping Station)	A. Grainger, Esq.	5	1	0	292	882	34.72	...
d Sevenoaks (Chevening Gardens)	Mr. J. C. Sutton	5	1	0	360	1019	40.12	186
d Knockholt (Kent Waterworks)..	Met. Water Board.....	5	1	0	785	914	35.97	172
" " " " Tower	" " " "	5	24	6	812	854	33.63	...
d Otford (Beechy Lees)	Mr. R. Edwards.....	5	0	10	480	1006	39.61	209
d Shoreham (Highfield Gardens)...	Mr. H. Woodgate	5	1	3	670	978	38.51	173
Downe (Petleys)	Miss Murton	5	0	11	...	974	38.35	...
d " (Council School)	A. J. Ridge, Esq.	5	0	8	500	1022	40.22	205
d Chelsfield (Woodlands).....	A. T. Waring, Esq.	5	4	4	400	865	34.04	180
d Keston (Forest Lodge)	F. C. Bayard, Esq.	5	1	0	300	1002	39.47	172
d West Wickham (Wickham Court)	" " " "	5	1	2	300	1008	39.70	164
d Hayes (Hayes Place).....	" " " "	8	1	0	350	931	36.66	162
d Orpington (Kent Waterworks)...	Met. Water Board.....	5	1	0	220	897	35.33	176

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above		1916			
			Ground	Sea Level	mm.	inches.		
KENT—(con.)		in.	ft.	in.	feet.			
5.—THAMES—Darent—(con.)								
D Eynsford Hill.....	Arthur Mee, Esq.	8	1	0	358	562	22.12?	152
Meopham (The Chestnuts)	Jesse Garratt, Esq.	5	2	0	290	770	30.33	164
D Cobham (Sole Street House).....	J. Scratton, Esq.	5	1	8	311	837	32.94	185
D Bromley Common (Elmfield) ...	Rev. J. P. Faunthorpe.....	5	0	9	240	832	32.75	197
D Bickley (Sunnydene)	Sir J. Wrench Towse.....	5	1	0	227	874	34.41	167
D „ (Farrants)	(R) L. E. Chalmers, Esq.....	8	3	6	...	865	34.07	179
D Bromley (Lyncroft)	Rev. H. A. Soames.....	5	1	0	180	836	32.90	179
D „ (King's Avenue).....	A. Malden, Esq.....	5	1	6	180	815	32.09	171
D „ (The Palace)	F. C. Bayard, Esq.	5	1	0	187	893	35.17	171
„ (Gilbert Road)	Edward Kinder, Esq.....	5	1	0	200	847	33.36	...
„ (Lansdown Road)	C. A. Case, Esq.	5	1	0	220	828	32.62	...
D Beckenham (Croydon Road).....	J. A. Angell, Esq., C.E..	8	1	0	110	969	38.15	186
D Chislehurst (Hawkwood)	F. C. Bayard, Esq.....	5	1	0	300	810	31.89	155
D „ (Foxbury)	Mrs. Tiarks	8	4	6	250	768	30.22	166
D Sidcup (Beech View).....	Miss Darrell	5	0	10	...	757	29.79	174
D Gravesend (Thong)	C. H. Scriven, Esq.	5	1	0	255	796	31.32	189
D Southfleet (Kent Waterworks)..	Met. Water Board.....	5	1	0	82	734	28.90	172
D Wilmington(„ „).....	„ „ „ „	5	1	0	25	709	27.90	157
D Dartford (West Hill House).....	F. C. Bayard, Esq.	5	1	3	100	775	30.51	156
D Higham Waterworks	A. Sidwell, Esq.....	8	1	0	142	802	31.59	178
D „ (Oakleigh)	C. Lake, Esq.....	5	1	2	25	693	27.28	145
D Erith (Crossness)	London County Council...	14	0	6	16	639	25.16	167
SUSSEX. (Area, 1458 sq. mi.)								
1.—LAVANT & C. 175 sq. mi.								
D† Selsey (Large Acres) ... <i>Field g.</i>	E. Heron Allen, Esq.....	5	1	0	25	752	29.61	196
D† „ („ „) ... <i>Snowdon</i>	„ „ „ „	5	1	0	25	814	32.04	194
D† Bognor	A. G. Thompson, Esq., C.E.	8	1	0	21	770	30.33	170
D† „ (Albert Road)	H. L. F. Guernonprez, Esq.	8	1	0	20	794	31.24	182
† Felpham (Outerwyke)	F. J. Neale, Esq.	8	1	0	8	752	29.60	164
Bognor (Shripney).....	R. A. Briggs, Esq., C.E.	5	1	0	25	800	31.49	149
„ (Lidsey Lodge).....	H. Neale, Esq.	8	1	2	25	810	31.88	161
D West Thorney (The Manor House)	H. Padwick, Esq.	5	1	0	23	758	29.86	158
† Arundel (Bonhams, Yapton) ...	W. Harrison, Esq.....	5	1	0	24	801	31.54	169
† „ (Drove Farm, „) ...	„ „ „ „	5	1	0	14	768	30.24	169
D Chichester (Westgate)	G. Ashley Tyacke, Esq...	8	0	6	40	826	32.50	184
D „ (Summersdale)	Rev. H. J. Peckham.....	5	1	0	100	834	32.83	192
D „ (West Broyle Gardens)	T. Weller-Poley, Esq. ...	5	1	4	107	805	31.70	159
D West Bourne [Emsworth]	Rev. L. B. Birkett.....	5	1	0	50	839	33.02	203
D Funtington.....	J. A. Greenwood, Esq....	5	1	0	95	848	33.40	165
West Stoke Rectory	Rev. Preb. W. F. Shaw...	5	1	0	176	852	33.53	163
D Chichester (Goodwood Gardens).	Mr. F. Brock	5	1	3	133	966	38.05	200
D „ (Watergate House) ...	W. M. Christy, Esq.....	5	1	0	236	952	37.47	205
„ (West Dean Park) ...	Mr. W. H. Smith	10	1	6	190	996	39.21	168
„ (Chilgrove)	J. W. Woods, Esq.	5	0	6	284	924	36.38	...
D Compton House [Petersfield] ...	Miss K. B. Langdale	5	1	0	255	995	39.17	211
2.—ARUN. 285 sq. mi.								
D† Littlehampton (Met. Station) ...	R. E. Booker, Esq.	5	1	0	10	719	28.32	170
† Tortington House	Mrs. Travers	5	0	8	50	833	32.80	...

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam	Height Above Ground SeaLevel			1916		
		in.	ft.	in.	feet.	mm.	inches.	
SUSSEX—(con.)								
2.—ARUN—(con.)								
† Patching	J. Drewitt, Esq.	5	1	0	180	964	37.97	179
† West Chiltington (Gaywood) ...	E. Burney-Young, Esq.	5	0	8	134	1044	41.12	156
Cocking Rectory	Mrs. Randall	5	1	0	400	1060	41.74	194
† Elsted (Telegraph House)	The Earl Russell	5	1	0	625	956	37.63	152
Bepton (Linch Farm)	G. Eames, Esq.	5	0	8	276	1146	45.12	179
† Midhurst (Pendean)	late Lt.-Col. P. C. Bulloch ..	5	1	0	206	1085	42.70	181
Selham (Selham House)	C. C. Lacaita, Esq.	5	1	0	115	1034	40.72	...
† Stedham (Rotherhill)	Dr. W. A. Wills	8	0	8	170	987	38.87	165
† Rogate (Durford Abbey Farm)...	J. Harmsworth, Esq.	5	4	0	156	967	38.06	185
† Easebourne (Hollist)	Nigel V. Combe, Esq.	5	0	10	107	1036	40.78	177
† Petworth Park Gardens	Mr. E. W. Pull	5	1	0	182	1095	43.10	179
Tillington (River House)	The Hon. Lady Cunliffe ...	5	1	0	230	969	38.16	171
Lodsworth	Lt.-Col. E. O. Hollist, R.A. ...	8	2	0	230	862	33.93	170
Midhurst (K. Edward VII. San.)	J. A. Hart, Esq., per M.O. ...	5	1	0	480	926	36.45	191
Wisborough Green (Lowfold) ...	B. de F. Osmaston, Esq.	5	1	6	120	921	36.27	161
† Linchmere (Borden Wood)	E. G. Lamb, Esq.	8	1	0	260	982	38.66	203
† „ (Hollycombe)	J. C. Hawkshaw, Esq.	8	6	6	550	1073	42.25	161
† Fernhurst (Blackdown House)...	Lady Philipson Stow	5	1	0	550	1045	41.15	184
† Lower Beeding (The Warren) ...	Leicester M. Reed, Esq.	5	0	10	430	1012	39.83	171
† Horsham (Christ's Hospital)	A. E. Johnson, Esq.	8	1	0	170	946	37.24	184
† „ (Wimblehurst)	Miss E. M. Allcard	5	1	0	195	966	38.04	225
† Slinfold (Rapkyns)	W. Duncan Knight, Esq.	5	1	0	170	858	33.76	164
3.—ADUR & C. 237 sq. mi.								
† Rottingdean School	G. Mason, Esq.	5	1	0	120	862	33.94	172
† Worthing (Victoria Park)	Dr. R. H. Wilshaw	8	1	0	36	835	32.89	182
† West Worthing (Hillmorton Lo.)	A. Morris Butler, Esq.	5	1	0	30	900	35.42	173
† East Preston (Bay Trees)	Rev. J. B. Orme	5	0	9	25	855	33.67	182
† Worthing (Broadwater)	Edwin Apted, Esq.	5	5	6	30	802	31.59	175
† Brighton (Old Steyne)	D. Forbes, Esq., M.D.	5	1	0	32	843	33.19	185
† Hove (Marine Park)	Dr. A. Griffith	8	1	0	25	766	30.17	190
† Brighton W.W. (Goldstone Bottom)	J. Johnston, Esq., C.E.	8	0	7	140	814	32.05	197
† „ „ (Lewes Road)	„ „ „	8	3	6	88	926	36.47	200
† „ „ (Shoreham)	„ „ „	8	1	9	12	830	32.69	196
† „ „ (Upper Portslade)	„ „ „	8	1	3	167	904	35.60	208
† „ „ (Race Hill Reservoir)	„ „ „	8	1	0	466	950	37.42	200
† Preston Park (Clifton Villa) ...	late Henry Rogers, Esq.	5	1	0	76	909	35.78	193
† „ (The Knowle, Withdeane) ...	P. J. Trouncer, Esq.	8	1	3	100	1000	39.39	...
† „ (Ditchling Road)	G. Berry Hamlin, Esq.	5	1	0	302	944	37.18	199
† Patcham (Upper Roedale) weekly	„ „ „	5	1	0	385	1008	39.69	...
† Falmer (Brighton W.W.)	J. Johnston, Esq., C.E.	8	1	8	209	1005	39.58	216
† Patcham („ „)	„ „ „	5	1	6	207	1034	40.73	214
† Bramber (Burletts)	Hatton G. Sugden, Esq.	5	3	6	75	971	38.22	200
† Steyning (Crescent Road)	Mr. H. J. Hide	5	1	0	80	1019	40.11	181
† Washington Vicarage	Rev. A. H. S. Patrick ...	5	1	0	251	943	37.14	204
† Hurstpierpoint (Danny Park) ...	Mr. J. J. Bunney	8	1	3	180	1108	43.63	153
† Ditchling	E. A. Martin, Esq.	5	2	0	220	1004	39.53	182
† Keymer (The Limes)	Miss Berry	5	1	1	145	940	36.99	...
† Burgess Hill (Ote Hall)	Mrs. Woods	5	1	6	...	892	35.13	...
† Wykehurst Park Gardens	Mr. T. Tyson	5	1	6	360	1008	39.69	175

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
SUSSEX—(con.)								
3.—ADUR & C—(con.)								
D Cuckfield (Hilfield House)	Miss A. K. O'Brien	5	1	0	300	994	39.12	186
D „ (Workhouse).....	Mr. E. Gosden	8	1	0	389	908	35.76	152
D „ (Henmead Hall)	Mrs. Maxwell Campbell...	5	3	5	365	983	38.71	203
Lower Beeding (Leonardslee) ...	Sir E. G. Loder, Bart.....	8	1	0	270	1053	41.44	178
4.—OUSE. 224 sq. mi.								
D Seaford College	Col. F. W. Savage, V.D..	5	1	6	38	832	32.77	167
D „ (Bowden House School)...	J. F. Thomas, Esq.	5	1	0	190	804	31.65	179
D Newhaven (Poverty Bottom WW)	J. T. Bickford, Esq.	8	1	1	51	883	34.77	185
D Lewes (Little Dene)	Miss B. Brand	8	0	11	93	964	37.97	178
D „ (Cobbe Place)	Sir Albert F.A. Bosanquet	5	0	8	50	974	38.34	179
D Lewes (W.W., Kingston)	A. Wells, Esq.	8	1	3	13	1086	42.76	208
East Hoathley (Old Whyly) ...	H. C. Harbord, Esq.	5	1	0	160	962	37.88	...
D Isfield Place	Major H. King	5	1	0	41	871	34.27	184
„ „	„ „	5	1	0	41	871	34.29	...
„ „	„ „	5	1	0	41	872	34.33	...
D „ „	„ „	6	1	6	41	862	33.93	190
Framfield (High Cross)...	Maj. R. Lawrence Thornton	5	0	9	195	955	37.61	...
D Newick Rectory.....	Mrs. C. Powell	5	1	5	134	764	30.06	185
D Haywards Heath (S. Wilfrid's Par.)	Mr. J. E. Shirley	5	1	0	300	968	38.11	202
D Buxted Park	Hon. H. B. Portman.....	8	1	0	94	1030	40.53	197
„ (Strawberry Hall).....	C. Rintoul, Esq.....	5	1	0	180	961	37.83	192
D Mayfield (Five Ashes)	Miss Emily Aston	5	1	5	300	943	37.13	223
D Nutley (The Hall)	Miss Cook	5	0	10	417	966	38.04	186
D Lindfield (Gravellye)	Lewis Weedon, Esq.....	5	1	0	177	861	33.90	211
D „ (Boys' School)	H. Woolcock, Esq.	5	1	0	113	961	37.83	211
D „ (Malling Priory)	late D.P. Pennethorne, Esq	5	1	0	160	956	37.65	179
D Ardingly (Lywood House)	G. Forrester Scott, Esq....	5	0	9	240	955	37.59	198
D „ (Brook House)	H. R. G. Clarke, Esq.....	8	1	0	240	967	38.07	176
D „ (Wakehurst Place) ...	G.W.E.Loder, Esq. per MO	8	1	3	400	1178	42.46	214
D Horsted Keynes (Birchgrove) ...	Miss G. C. Price	5	0	9	400	929	36.58	...
D Balcombe (The Gables)	Mr. G. J. Warren	8	1	3	358	1088	42.82	217
D „ (Stockercroft)	R. Newton, Esq.	5	1	1	341	1079	42.47	210
D „ (Waterworks)	F. Martin, Esq., C.E.....	8	1	0	471	1079	42.49	181
5.—CUCKMERE & C. 189 sq. mi.								
D† Eastbourne (Wilmington Square)	Dr. W. G. Willoughby ...	5	1	0	39	936	36.85	208
D „ (Glenthorne)	Miss Woodd	8	1	6	86	931	36.66	183
† „ (Arundel Road)	J. C. Wright, Esq.....	5	1	0	70	983	38.70	...
D† „ (Ocklynge Cemetery) ...	C. Montague Wood, Esq.	5	3	6	171	916	36.06	165
D† „ (Staveley Cross) ...	J. Weston, Esq.....	5	1	6	110	939	36.98	199
D West Dean	A. J. Howard, Esq.	8	1	0	112	852	33.55	198
D Jevington (Church Farm)	„ „ „	8	0	9	274	936	36.86	175
D Litlington (Plough & Harrow Inn)	„ „ „	8	1	0	19	963	37.91	181
D Willingdon Sewage Farm	T. E. Varley Kirtlan, Esq.	5	1	0	24	978	38.49	177
D Pevensey Pumping Station ...	„ „ „	5	1	0	12	850	33.45	178
D „ Bay Pumping Station..	„ „ „	5	1	0	7	879	34.61	178
Berwick Railway Station	Sussex Daily News .....	...	...	...	...	930	36.60	...
D† Bexhill (Marina)	A. R. Harndon, Esq.....	8	1	0	27	893	35.15	174
† St. Leonards (Gensing Gardens).	H. Colborne, Esq., per M.O.	8	1	0	179	892	35.10	215
D Hailsham Vicarage	Rev. F. Clyde Harvey....	5	1	0	105	946	37.23	167

DIVISION II.—SOUTH EASTERN COUNTIES—(continued)

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground.			1916		
SUSSEX—(con.)								
5.—CUCKMERE & C—(con.)								
D Hailsham (Magham Down)	W. E. Bear, Esq.	5	1	0	90	861	33.89	171
D Hastings (Newgate)..... (R)	P. H. Palmer, Esq., C.E.	8	5	6	240	924	36.36	188
„ (Filsham Reservoir) ...	„ „ „	8	0	10	91	990	38.99	179
„ (Halton Reservoir).....	„ „ „	8	0	10	301	982	38.65	175
„ (Fairlight Reservoir) ...	„ „ „	8	0	10	517	894	35.20	154
D† „ (Cemetery)	Walter Field, Esq.	5	0	8	478	935	36.81	204
D Ninfield (Hazard's Green Pump Sta.)	C. P. King, Esq.	8	0	10	74	863	33.96	205
D Battle (Crowhurst Park)	Mr. A. Munday	5	1	0	480	1088	42.83	224
D Horeham Road (Coxlow)	Miss P. C. Harrison	5	1	0	260	941	37.04	201
D „ Grange	W. F. Beauford, Esq.	5	1	2	260	939	36.96	204
D „ Road (Hollycroft Cottage)	J. Hamlin, Esq.	5	1	0	300	956	37.63	199
D Heathfield (Angola)	T. B. Simpson, Esq.	5	1	0	400	1070	42.11	221
D „ (The White Cottage)	J. F. Leigh Clare, Esq.	5	1	3	500	950	37.40	183
D „ (South Ridge).....	P. Lennox Wright, Esq.	8	1	3	560	963	37.91	191
6.—ROTHER. 194 sq. mi.								
D Icklesham Vicarage	Rev. Philip Houghton ...	5	0	6	110	829	32.63	162
D Winchelsea (Mariteau House) ...	C. W. Campion, Esq.	5	1	0	120	1002	39.43	201
D Battle (Whatlington)	Miss H. Gripper.....	5	1	3	90	1047	41.21	200
„ Brede Waterworks	P. H. Palmer, Esq., C.E.	8	1	0	50	953	37.52	197
„ Udimore (The Hammonds)	J. G. Mair-Rumley, Esq.	8	1	0	144	864	34.02	162
„ Beckley (Little Harmers).....	B. E. de N. Ramus, Esq.	5	1	0	150	1009	39.73	157
D Heathfield (Tottingworth Park).	Mr. J. Masson	5	1	0	500	1026	40.38	182
D Northiam (Great Dixter)	Nathaniel Lloyd, Esq.	8	1	0	210	967	38.06	213
D Mayfield (Bishopstone)	A. G. Robins, Esq.	5	1	0	430	1023	40.26	189
D „ (Xaverian College).....	Brother Aloysius	5	1	0	400	891	35.07	172
D Wadhurst (The Olives).....	Miss Edith P. Luck	5	1	0	380	1010	39.76	191
D Hurst Green (Boarzell).....	Sir F. W. Fison, Bart. ...	8	1	0	270	979	38.54	187
„ Ticehurst House	H. H. Newington, Esq.	5	4	9	423	957	37.66	175
7.—MEDWAY. 117 sq. mi.								
D Crowborough (Jarvis Brook).....	Crowborough Water Co. ...	5	1	0	325	1079	42.47	186
D „ (Uckfield Lodge).....	J. J. S. Driberg, Esq.	8	1	0	796	1113	43.82	232
D „ (Te Whare).....	Miss Hames	5	1	0	796	1092	42.99	261
D Wadhurst (Lower Cousley Wood)	F. Wilkin, Esq.	5	1	0	416	928	36.54	194
D† Forest Row (Wych Cross Place) ..	D. W. Freshfield, Esq.	5	0	10	600	1032	40.64	160
D† „ „ (Hindleap Lodge) ..	Mr. A. Adam	5	1	6	620	1022	40.25	186
„ „ (Charlwood Farm) ..	A. Hoare, Esq.	5	1	0	250	972	38.27	...
D Coleman's Hatch (Holly Hill) ...	J. MacAndrew, Esq.	5	1	0	355	1084	42.68	184
D Eridge Green (Danegate)	Sir H. G. Walpole, K.C.B.	5	0	10	400	1052	41.40	190
D Frant (Henley House)	E. Malden, Esq.	5	1	6	440	1029	40.50	203
D „ (Eridge Castle)	Mr. A. Wilson	5	1	0	400	1073	42.25	181
„ (Highfield)	C. M. R. Cleeve, Esq.	5	2	3	413	1015	39.95	151
D Forest Row (Courtmead) ..	G. Worthington, Esq. ...	5	0	8	275	1135	44.69	192
D Crawley Down (The Grange).....	T. H. W. Buckley, Esq.	5	1	0	430	1023	40.26	201
D East Grinstead (Highfields)	G. Mason, Esq.	5	0	9	400	959	37.74	182
D „ „ (Brockhurst Obsy.) ..	F. J. Hanbury, Esq.	8	1	0	435	1029	40.52	215
„ Glen Andred [Groombridge] ..	Mrs. Boardman	8	1	0	320	977	38.48	...
„ Cozleigh [„] ..	J. Anderson, Esq.	8	2	0	230	998	39.27	192
8.—THAMES—Mole. 27 sq. mi.								
D Worth (South Hill)	Miss R. M. Ravenshaw...	8	1	6	558	1102	43.37	221

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
SUSSEX—(con.)								
8.—THAMES—Mole—(con.)								
D Worth (Worth Lodge)	C. W. Nix, Esq.	5	3	0	340	1065	41·93	203
9.—THAMES—Wey. 10 sq. mi.								
D Ripsley [Liphook]	W. D. Bosanquet, Esq.	5	1	0	400	1033	40·67	192
HAMPSHIRE. (Area, 1622 sq. mi.)								
1.—ISLE OF WIGHT. 150 sq. mi.								
D Niton (Westcliffe)	E. L. Holland, Esq.	5	1	10	300	758	29·85	155
D† Ventnor (Flint Cottage)	J. S. Ineson, Esq.	5	1	0	99	840	33·09	183
D „ (Royal National Hospital)	Miss M. Gibson ..	5	1	0	60	860	33·86	190
D Shanklin	E. C. Cooper, Esq., C.E.	8	1	0	184	874	34·42	192
D Sandown (Free Library)	C. E. Gilchrist, Esq.	8	1	0	30	893	35·17	197
Brighstone Rectory	Rev. E. W. Silver	5	1	1	100	812	31·99	...
„ (Pitt Place)	A. A. H. Wykeham, Esq.	8	1	3	180	844	33·24	...
D† Totland Bay (Aston House)	J. Dover, Esq.	8	1	3	145	770	30·32	175
Calbourne (Swainston)	Sir John Simeon, Bt.	5	1	0	170	882	34·71	177
D Bembridge (The Grange)	Maj. F. A. Edwards, R.F.A.	5	0	8	116	832	32·74	166
D† Ryde (New Lodge, St. John's Park)	Mrs. Dobie	5	1	1	147	879	34·61	199
„ (Perivale)	Major E. C. Murray	5	1	3	193	961	37·84	180
D† „ (Pier Street)	G. Nicholson, Esq.	12	9	7	35	809	31·87	162
D „ (Esplanade Gardens)	C. Mathew, Esq.	8	2	0	6	819	32·23	170
D† „ (Beldornie Tower)	P. Craven Hall, Esq.	5	1	0	30	755	29·72	196
† Wootton (Fernhill)	C. Gordon Brodie Esq.	8	0	6	118	884	34·81	167
D Binstead (Quarr Hill)	Dr. J. Winthrop Woodruff	5	0	10	100	813	32·00	179
D East Cowes (Spring Hill)	G. Shedden, Esq.	5	1	0	121	788	31·04	179
D Cowes W. W. (Broadfields)	J. W. Webster, Esq., C.E.	5	0	10	161	828	32·60	170
D „ (Upper Moor Green)	J. G. K. Day, Esq.	5	4	0	160	848	33·37	189
2.—STOUR. 32 sq. mi.								
D† Bournemouth (Coastguard Stat.)	Messrs. Primavesi Bros.	5	1	0	100	797	31·38	198
† „ (Pleasure Gardens)	C. Dales, Esq.	5	1	0	41	993	39·10	192
D† „ (West Cliff)	Rev. G. A. Rideout	5	1	0	145	959	37·76	183
D† „ (Rodney House)	S. Hyla Greves, Esq.	5	1	0	145	868	34·16	177
† „ (Vale View)	C. Dales, Esq.	5	1	0	145	947	37·30	190
D† Christchurch (Heron Court)	The Earl of Malmesbury ..	5	1	2	25	1032	40·61	176
3.—EAST AVON & C. 114 sq. mi.								
D† Christchurch (Winkton Lodge) ..	Miss Lassell	5	1	0	34	894	35·20	203
D Hinton Admiral (East Close) ..	Col. A. M. Blake	5	1	0	185	956	37·64	164
D Ringwood (West Mount)	R. F. Williams, Esq.	5	1	0	100	992	39·06	203
D Fordingbridge (Cuckoo Hill) ..	Heywood Sumner, Esq.	5	1	0	150	1056	41·57	191
„ (Dockens)	Rev. E. W. Poore	8	0	6	...	1054	41·51	179
D „ (Oaklands)	S. B. Rake, Esq.	8	1	0	135	1023	40·29	210
4.—TEST & SOLENT. 551 sq. mi.								
D Milford-on-Sea (Salt Grass)	A. C. G. Heygate, Esq.	5	1	0	6	797	31·39	162
D „ „ „ (Milford House) ..	E. L. Agar, Esq.	5	0	8	40	842	33·16	174
D Lymington (The Salterns)	P. A. Ouvry, Esq.	5	1	0	1	896	35·27	181
D Milton (Wootton Hill)	J. A. Harman, Esq.	5	2	6	198	961	37·85	164
Burley (Manor House)	Col. F. Willan	5	1	4	210	936	36·85	...
D Fawley (Cadland)	Mr. L. Smith	8	4	6	52	861	33·90	189
Hythe (The Garth, Dibden)	P. C. Crossley, Esq.	8	1	0	136	893	35·15	...

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above		1916			
			Ground.	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
HAMPSHIRE—(con.)								
4.—TEST & SOLENT—(con.)								
D Hythe (Heathfield, Dibden).....	Mr. Jesse Reeves	5	1	3	127	937	36·90	176
† Lyndhurst (Cuffnells)	R. G. Hargreaves, Esq....	5	1	0	195	1061	41·76	...
† Fritham (Fritham House)	H. H. S. Northcote, Esq..	5	1	0	399	1102	43·40	...
Southampton (East Park).....	Col. C. F. Close, C.M.G....	8	1	0	65	901	35·46	189
„ Common Res....M	E. C. Rodda, Esq., C.E....	5	1	0	193	916	36·08	...
D Cadnam (Copythorne House) ...	N. M. Lawrence, Esq. ...	5	1	2	140	981	38·62	162
Romsey (Embley Park Gardens)	Hampshire Advertiser ...	...	...	...	...	974	38·33	...
„ (Stanbridge Earls)... (R)	Mrs. Hansard.....	...	3	0	137	957	37·69	...
D „ (Timsbury)..... (R)	D. Kitchingman, Esq., C.E.	8	1	8	96	897	35·32	176
D West Dean Rectory	Rev. E. Wells	5	1	0	149	933	36·72	183
West Tytherley (Buckholt).....	R. J. Townshend, Esq....	5	0	11	410	981	38·63	203
D† Horsebridge (Bossington House)	W. H. Deverell, Esq.....	8	0	9	92	925	36·43	190
D† Ashley Old Manor House	Legh S. Powell, Esq.....	5	1	3	235	950	37·39	179
D „ (Upper Somborne)	Mr. Charles Alleway.....	8	1	0	250	912	35·92	168
D† Broughton	W. Steele Tomkins, Esq..	5	1	3	125	977	38·46	176
D† Stockbridge (Houghton Lodge)..	Mr. G. Morris.....	5	1	0	190	922	36·31	175
D Barton Stacey (Moody's Down)..	H. J. Gardiner, Esq.....	5	1	3	230	892	35·12	174
D Abbot's Ann Rectory	Rev. F. de Paravicini....	5	0	10	220	894	35·20	176
D Andover Sewage Works	Walter C. Jerome, Esq....	8	0	8	...	871	34·30	169
D Fyfield Rectory	Rev. E. K. R. Reynolds...	5	1	5	250	846	33·32	190
D St. Marybourne (Bournside) ...	Prof. C. V. Boys, F.R.S.	5	1	2	300	896	35·26	189
D Oakley Rectory	Rev. F. G. Hume	5	1	6	365	1021	40·20	202
D „ (Malshanger)	Major G. Walter	5	1	0	400	919	36·19	154
„ (Manydown Park) ... (R)	S. E. Bates, Esq. ....	...	1	8	415	860	33·86	...
Hurstbourne Tarrant (The Rookery)	R. E. C. Burder, Esq. ...	5	1	0	331	969	38·14	...
D Vernham Dean (Rowe House) ...	Adm. E. H. Gamble, C.B.	5	0	7	620	968	38·11	160
5.—ITCHEN & SPITHEAD. 417 sq. mi.								
D Alverstoke (Monckton House) ...	Capt. J. Blake	5	1	6	15	758	29·86	176
† Portsmouth (Eastney)	A. W. Ward, Esq., C.E.	8	0	9	16	620	24·43	...
D† „ (Victoria Park)	Dr. A. Mearns Fraser....	5	1	0	18	723	28·48	170
D Hayling Island (Richmond House)	E. S. McEuen, Esq.	5	1	2	16	739	29·08	163
D Porchester (Noel Cottage).....	Miss Montgomerie Frost..	5	2	0	...	658	25·91	160
D Fareham (Burpham House)	W. S. Stevenson, Esq., M.D.	5	1	6	30	799	31·46	171
D „ (The Mount)	H. R. Pink, Esq.	5	1	0	250	746	29·38	176
D „ (Roche Court)	Mrs. H. F. Rawstorne....	5	1	0	104	897	35·30	187
D Warsash (Hook Vicarage)	Rev. C. B. Lloyd	5	1	2	60	768	30·23	181
D† Havant (Farlington)	H. Ashley, Esq., C.E....	5	1	0	77	673	26·50	174
† „ („)	„ „ „	5	1	0	77	689	27·11	...
D† „	„ „ „	5	1	0	25	730	28·75	183
† „	„ „ „	5	1	0	25	736	28·97	...
Cosham (Purbrook Grange)	Miss F. A. Deverell	8	0	9	100	950	37·40	169
D Netley (Lake House).....	Miss Pennington	8	1	0	54	860	33·84	188
D Cowplain (Forest View)	H. C. Pearson, Esq.	5	5	0	222	914	36·00	204
Wickham (Park Place).....	Lt.-Col. H. R. Farquhar	5	1	0	150	939	36·96	184
D Botley (Fairthorne Manor)	Mr. D. F. Lailey	8	1	0	70	942	37·08	221
D „ (Hedge End)	late Rev. T. H. Philpott..	8	1	1	178	943	37·12	178
† „ (Brook House)	Beckett Powell, Esq.....	5	3	2	45	919	36·18	...
† „ (Rectory) ...	Rev. G. E. C. Osborne....	5	1	0	50	884	34·79	...
D† „ (Botley Hill)	Lady Jenkyns	5	1	6	36	907	35·69	181

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		1916			
		in.	ft.	in.	feet.	mm.	inches.	
HAMPSHIRE—(con.)								
5.—ITCHEN & SPITHEAD—(con.)								
† Botley (Beechcroft, Curdridge) ..	Miss L. M. S. Pasley.....	5	1	0	96	884	34·79	217
† Horndean (Blendworth Lodge)...	Mrs. Long	8	0	10	217	1025	40·36	206
D Catherington (St. Catherines) ...	Capt. R. H. Archer, R.N.	5	1	3	370	966	38·03	207
D Soberton (Gosport W. W., Mislingford)	E. T. Hildred, Esq., C.E.	5	1	0	136	899	35·39	183
Chalton (Woodcroft)	M. Capt. C. J. P. Cave, R.E.	5	1	0	136	891	35·09	...
D Bishops Waltham (The Palace Ho.)	A. F. Hardy, Esq.....	5	1	3	116	923	36·33	189
" (Swanmore Ho.)	W. H. Myers, Esq.	8	1	0	390	1069	42·08	170
D Droxford (Uplands)	Miss Bridge	5	1	0	279	988	38·91	203
D " (Fairfield House)	H. Hamilton Bridge, Esq.	5	1	0	254	992	39·06	211
D " (Fir Hill)	Capt Mackenzie Grieve, RN	5	3	6	212	938	36·95	196
D Chandlers Ford (Fryern)	Miss Grace Stuart	5	1	2	150	904	35·61	151
† Petersfield (Ditcham Park)	Capt. C. J. P. Cave, R.E.	8	1	0	555	991	39·00	202
† " (Downley)	M. " " " " " "	5	1	2	374	1034	40·70	...
Otterbourne House	E. Christian, Esq.	5	1	2	111	939	36·97	...
D " (W. W., Shawford)	E. C. Rodda, Esq., C.E...	5	1	0	113	937	36·89	190
D Westbury House Gardens	Col. H. Le Roy Lewis CB, DSO	5	2	10	296	1083	42·64	170
Winchester (Owslebury House) ..	W. Welsh, Esq.....	5	1	0	365	869	34·22	168
D Twyford (Pumping Station) ..(R)	D. Kitchingman, Esq., C.E.	8	1	9	139	909	35·78	169
D " (Mallards Close)	G. R. Marsh, Esq.	5	1	0	145	872	34·31	180
D Hursley Park	(R) Sir G. A. Cooper, Bart....	10	1	0	220	861	33·89	181
Kilmeston Manor	Mrs. Heathcote	5	4	6	323	844	33·22	...
Petersfield (Broadhanger)	Mrs. R. M. Caulfeild....	5	1	0	730	1135	44·68	...
D Winchester (St. Giles' Hill)	Mrs. Wilde.....	5	1	0	250	833	32·81	187
" (" " " " ")	M. " " " " " "	5	1	0	215	820	32·30	...
† " (Northgate Place)	Hampshire Chronicle ...	8	1	3	180	929	36·58	191
D Ovington Rectory	Rev. H. F. La M. Stowell	5	1	0	221	1056	41·57	184
" (Barley Down)	J. Stevens, Esq.....	12	3	6	300	976	38·42	195
D Itchen Abbas (Chilland)	W. J. Arnold, Esq.	5	1	3	200	911	35·86	166
6.—ARUN. 32 sq. mi.								
† Petersfield (Sunwood)	M. Capt. C. J. P. Cave, R.E.	5	0	10	479	1012	39·84	...
" (The Miscombe) ...	M. " " " " " "	5	1	1	250	1028	40·48	...
" (Buriton House)	L. G. Bonham Carter, Esq.	5	1	9	293	989	38·93	...
" (Nursted)	M. Capt. C. J. P. Cave, R.E.	5	1	0	270	1002	39·45	...
D " (Weston) ...	Capt. P. W. Seward	5	1	0	330	1140	44·90	191
" (The Mount, Ramshill)	F. G. Padwick, Esq.....	8	1	0	250	1078	42·42	191
D Liss (Overcombe)	Miss Jebb	5	1	0	500	910	35·83	200
D " (Highfield)	J. S. Gamble, Esq., C.I.E., FRs	5	0	9	325	1082	42·61	215
" (The Lodge)	Ernest Latter, Esq.	5	1	3	240	1070	42·14	194
D " (Kippences)	Rev. W. A. H. Thorold...	5	0	9	250	1035	40·75	167
D Greatham (King's Holt)	Mrs. Chase Parr.....	5	1	7	325	949	37·37	163
" (Manor House)	F. Coryton, Esq.	5	0	7	250	999	39·33	155
D " (Le Court)	Heath Harrison, Esq.	5	0	6	350	1083	42·65	203
7.—THAMES—Wey. 97 sq. mi.								
D Liphook (Fowley)	E. A. Lee, Esq.	5	0	10	296	1044	41·12	205
Colmer Rectory	Rev. A. C. Hervey.....	5	1	1	560	1032	40·65	...
East Tisted (Rotherfield Park)...	Mr. W. H. Yates	5	1	0	550	1206	47·49	192
D " " Rectory	Rev. Roland Errington...	5	1	0	437	941	37·03	161
D Newton Valence Vicarage	Rev. A. C. MacLachlan...	5	1	0	586	1026	40·38	197

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
HAMPSHIRE—(con.)								
7.—THAMES—Wey—(con.)								
D Selborne (The Wakes)	Col. A. Bibby	5	1	0	400	1147	45.16	216
D† Grayshott	Mrs. Lyndon	5	1	0	661	1100	43.31	218
D Headley (Eveley)	Mr. T. Carter	5	1	3	295	1058	41.67	189
Liphook (Bordon Camp)	The Division Officer, R.E.	8	1	0	268	739	29.11	...
Alton (Manor House Gardens)...	Hampshire Chronicle .....	...	...	...	...	1051	41.39	190
D „ (Shalden Manor)	J. Gathorne Wood, Esq....	8	3	0	594	1126	44.34	209
D Froyle (Park Edge)	Walter Sedgwick, Esq....	5	1	0	350	882	34.73	191
8.—THAMES—Loddon. 164 sq. mi.								
D Warren Corner [Farnham]	F. Wilkin, Esq.....	5	1	0	560	893	35.16	197
D Upton Grey (Hoddington House)	Lord Basing	8	1	0	378	1068	42.04	195
D Aldershot (Sewage Works)	Mr. J. Edwards	5	1	0	231	964	37.97	217
Greywell	F. J. Garland, Esq.	5	2	6	266	678	26.68	...
D Basingstoke (Upper Nately)	Mrs. Wolferstan	5	1	0	285	865	34.04	189
„ (Queen Mary's Sch.)	W. H. Pick, Esq., per M.O.	5	1	0	289	943	37.12	162
D „ (Pumping Station)	F. R. Phipps, Esq., C.E.	5	0	6	320	899	35.38	182
D Sherborne St. John	Rev. D. W. Chute	5	1	2	267	912	35.90	195
„ „ (West End)	Hampshire Chronicle .....	...	...	...	...	955	37.61	...
South Farnborough	Meteorological Office	8	1	0	234	778	30.64	188
D Winchfield (Elvetham Park)	Mr. G. B. Mitchison	8	1	0	217	882	34.73	207
Hartley Wintney	W. G. Machin, Esq.	5	1	2	222	863	33.96	183
D „ Grange	F. Walkinshaw, Esq.	8	1	0	221	871	34.29	186
D Strathfieldsaye Rectory	Rev. F. Page-Roberts....	5	1	0	164	926	36.44	191
D Heckfield (Park Corner)	Miss Martineau	5	1	2	257	858	33.79	185
9.—THAMES—Kennet. 65 sq. mi.								
Ewhurst Park Gardens	The Duke of Wellington	5	1	0	450	944	37.15	...
D Kingsclere (The Rookery)	Dr. R. Maples.....	5	3	0	327	945	37.22	158
BERKSHIRE. (Area, 722 sq. mi.)								
1.—TEST. 2 sq. mi.								
2.—THAMES—Bourne. 15 sq. mi.								
3.—THAMES—Loddon & c. 162 sq. mi.								
D Wellington College	E. M. Eustace, Esq.	5	1	0	283	928	36.55	190
D „ „ (Woodside)	Mr. W. J. Townsend	8	2	9	240	863	33.97	182
D Crowthorne (Firholt)	A. H. Hobhouse, Esq.	5	1	0	307	878	34.56	197
D „ „ „	„	2	1	0	307	890	35.03	200
Finchampstead (West Court)	C. E. Harris-St. John, Esq.	5	1	0	180	783	30.83	176
Beech Hill (The Priory)	Gen. Hon. F. C. Bridgeman	6	1	6	200	821	32.33	152
D Ascot (Winkfield Manor)	C. A. Ferard, Esq.	5	1	0	240	915	36.04	203
D Wokingham (Fieldhouse)	H. C. Mylne, Esq.	5	1	0	220	885	34.83	217
D Winkfield (Ryemead)	Mrs. Aubrey Elliott	5	0	10	220	868	34.19	191
D Warfield (Hawthorndale)	Col. G. H. Burges	5	1	0	207	890	35.04	194
D Windsor (Royal Gardens)	Mr. A. Mackallar	5	1	0	88	822	32.35	206
D „ „ (Osborne Road)	Miss M. G. Cookson	8	1	0	88	799	31.45	199
D Maidenhead (Heywood Park)	Greville H. Palmer, Esq.	8	1	0	102	744	29.29	159
D „ „ (Hall Place)	Sir G. A. C. East, Bart.	8	1	2	275	869	34.21	184
Remenham Hill (Wedmore)	Mrs. Burnell	5	0	6	350	983	38.71	190
D Bisham Vicarage	Rev. W. Farrer	5	1	0	100	860	33.86	192
D Temple House [Marlow]	Mrs. Owen Williams	5	1	0	106	904	35.59	204

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above		Sea Level	1916		
			Ground					
		in.	ft.	in.	feet.	mm.	inches.	
BERKSHIRE—(con.)								
4.—THAMES—Kennet & c. 224 sq. mi.								
D	Hampstead Marshall (Redhill)...	5	1	0	400	940	37.02	158
	Mortimer (Wokefield Park)	5	4	0	180	837	32.95	175
D	Brimpton (Stonehouse)	5	0	7	350	886	34.89	163
	„ (Littlepark)	5	1	0	345	858	33.79	158
	Newbury (Sandleford Priory) ...	8	2	0	381	1020	40.15	181
D	„ (Greenham Common) ..	5	1	0	328	950	37.42	174
	„ (Grammar School) ...	5	0	9	279	818	32.20	181
	Shinfield (University Coll. Farm)	5	1	0	199	827	32.56	183
D	Bucklebury Place	5	1	0	409	836	32.90	160
D	Beenham House	8	2	3	315	870	34.24	181
	Reading (Leighton Park School)	5	1	0	265	817	32.17	176
D	„ (Northcourt Avenue)...	5	1	0	213	819	32.24	195
D	„ W.W. (Bath Road) ...	5	1	8	218	839	33.03	187
D	„ (Forbury Gardens).....	5	1	5	145	875	34.46	207
	„ (University College) ...	5	1	0	152	833	32.80	185
	„ (Victoria Square)	5	1	6	145	860	33.87	191
D	„ (Caversham Lock)	5	3	5	124	761	29.95	157
D	Lambourn (East Garston)	5	2	6	395	884	34.80	201
	„ (Clarionville)	5	1	6	500	822	32.35	170
5.—THAMES—Ock & c. 319 sq. mi.								
D	Reading (Englefield).....	5	1	1	175	877	34.54	169
D	Frilsham House.....	5	1	0	370	890	35.02	179
D	Yattendon Court	5	0	10	440	886	34.90	164
	Hampstead Norris.....	5	1	0	300	828	32.62	180
	Farnborough Rectory	5	1	3	713	936	36.83	209
D	Wallingford (Aston Tirrold) ...	5	1	1	250	788	31.03	156
D	Upton	5	1	0	240	762	29.99	194
	„ (Prospect House).....	5	1	0	250	783	30.84	190
D	Wantage (Ginge Manor)	5	1	0	332	858	33.77	193
	„	5	1	0	314	804	31.67	171
	Steventon (Milton Hill)	5	2	0	300	787	31.00	166
D	Wallingford (Woodlea).....	5	0	6	200	830	32.68	183
	„ Castle	5	1	0	175	822	32.37	175
D	„ (Shillingford Hill) ..	5	1	4	218	771	30.34	189
D	Little Wittenham	5	2	0	189	625	24.61	157
D	Long Wittenham (Manor Ho.)...	12	1	0	170	785	30.92	166
D	„ „ (Willington)...	5	1	0	167	823	32.39	187
D	Faringdon (Bleak House)	5	1	0	367	840	33.08	195
D	Abingdon (The Square House)...	5	1	9	180	789	31.05	185
	„ (Twickenham House) ..	5	10	0	210	722	28.43	160
	„ (Caldecott House) ...	5	0	7	177	677	26.67	...
	„ (Sewage Works)	5	0	6	169	784	30.86	...
D	„ Union	5	1	0	196	816	32.12	190
	„ (Donnington)	5	7	0	196	824	32.42	172
	„ (Northcourt House) ..	5	1	0	190	752	29.62	...
	Hinton Waldrist	5	3	6	331	826	32.51	...

DIVISION III.—SOUTH MIDLAND COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above Ground.		Sea Level	1916		
		in.	ft.	in.	feet.	mm.	inches.	
MIDDLESEX. (Area, 232 sq. mi.)								
1.—THAMES—Colne & Brent. 185 sq. mi.								
D Shepperton Lock [Weybridge]...	R. A. Swarbrick, Esq.....	5	1	0	41	725	28·54	161
D Sunbury (Sunbury Lodge)	F. A. Walroth, Esq.	5	3	9	38	742	29·23	177
D Shepperton (Charlton Court) ...	Met. Water Board	8	1	0	40	761	29·95	167
D† Hampton	" " "	8	1	0	42	721	28·37	198
D Staines (Belle Vue)	J. Gundry, Esq.	5	1	0	51	814	32·05	182
D " Reservoir	Met. Water Board	5	1	0	50	782	30·79	185
D Twickenham (Sewage Works)...	F. W. Pearce, Esq., C.E. 5	1	7	37	762	29·99	188	
D Hounslow (St. Stephen's Vicarage)	Rev. R. Dixon Box	5	1	0	67	769	30·26	192
D Isleworth (Mandeville House) ...	A. Worsley, Esq.	8	1	0	24	934	36·77	192
D Sipson (Hollycroft)	Mr. W. J. Mitchell	5	1	0	95	694	27·31	...
D† Kew Bridge (Waterworks)	Met. Water Board	8	1	0	37	793	31·22	186
D Chiswick (Grove Park)	A. E. Brounger, Esq.....	5	1	1	18	783	30·83	177
D " (Sewage Works)	E. Willis, Esq.	8	3	6	24	771	30·34	165
D Ealing (Webster Gardens)	H. M. Baker, Esq.....	5	1	6	97	786	30·93	177
† " (Longfield Avenue)	W. R. Hicks, Esq., C.E. 5	9	0	114	746	29·37	174	
D† " (St. Stephen's Road) ...	H. W. Peal, Esq.	5	0	10	156	797	31·39	182
† " (Hanger Hill Reservoir)	Met. Water Board	5	1	0	...	752	29·60	...
† Perivale (Northern Sewage Farm)	W. R. Hicks, Esq., C.E. 5	1	0	56	810	31·91	209	
D† Willesden Reservoir	Met. Water Board	5	1	0	199	730	28·74	163
D† " Green (Strode Road)...	Miss Lamport	5	1	0	150	814	32·05	203
D " (Richmond Avenue)...	W. Godden, Esq.	5	5	3	175	801	31·53	184
D " (Stonebridge Farm) (R)	O. C. Robson, Esq., C.E. 10	5	9	100	770	30·32	176	
D Highgate (North Hill)	L. J. Tatham, Esq.	5	1	0	400	893	35·14	193
D " (" " Depôt) ...	E. J. Lovegrove, Esq., C.E. 5	5	4	309	883	34·78	198	
D Harrow (Bessborough Road Depôt)	J. P. Bennetts, Esq., C.E. 5	1	0	215	872	34·31	200	
D† Golders Green (Highfield Avenue)	A. E. Payne, Esq.	5	1	0	175	885	34·85	203
D† Hendon Sewage Works	S. S. Grimley, Esq.	6	1	8	153	822	32·36	184
D† " (Central School)	C. W. Butler, Esq.	5	1	4	200	1053	41·47?	211
D Wealdstone House	Miss H. O. E. Cobb	5	0	11	236	790	31·09	...
D Harefield (Harefield House).....	Walter J. B. Byles, Esq. 5	0	8	290	914	35·97	150	
D† Northwood (Haslemere)	Miss McBean	5	1	0	240	890	35·06	168
D Harrow Weald (Hill House) ...	A. Crossman, Esq.....	5	3	6	284	916	36·05	206
D North Finchley	Miss M. Shoults	5	0	8	295	929	36·59	197
D† Mill Hill (Cleveland)	Mrs. Stewart King	5	1	0	400	883	34·78	213
Dyrham Park [Barnet]	Mr. H. Juniper	5	1	0	310	821	32·32	...
D Potters Bar (Mount Grace)	J. Forbes, Esq.	5	1	0	380	868	34·18	193
D† " " (Little Heath)	Henry Ellis, Esq.	5	1	0	375	861	33·91	176
2.—THAMES—Lea. 47 sq. mi.								
D Crouch End (Barrington Road)...	E. J. Lovegrove, Esq., C.E. 8	3	10	122	897	35·30	199	
D Harringay (Wightman Rd. Depôt)	" " "	8	23	3	113	721	28·38	176
D Highgate (Avenue Road)	C. S. Nicholson, Esq.....	5	1	0	212	927	36·51	184
D Tottenham (Drayton Road)	Urb. Dist. Council per M.O. 5	1	3	27	797	31·39	167	
D† Hornsey (High Street)	Met. Water Board	5	1	0	109	886	34·87	198
† Muswell Hill (Grand Avenue)...	G. Michael Williams, Esq. 5	1	0	317	959	37·77	202	
D " " (" " ")...	Miss Abethell	5	0	8	310	1018	40·07	229
D† " " (Tollington School)	W. Campbell Brown, Esq. 5	1	11	375	858	33·77	188	
D " " (Sewage Farm) ...	E. J. Lovegrove, Esq., C.E. 8	4	5	214	923	36·34	213	
D Alexandra Park (Grove Avenue)	Ernest A. Lee, Esq.	5	1	0	235	906	35·67	203
D Wood Green (Maryland Road)...	Mr. F. C. Hornsey	6	1	0	110	850	33·47	188

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above		Sea Level	1916		
			Ground	feet.		mm.	inches.	
MIDDLESEX—(con.)								
2.—THAMES—Lea—(con.)								
D Wood Green (Town Hall) ... (R)	C. H. Croxford, Esq.	8	5	6	126	710	27.95	184
D† Finchley (Victoria Park)	C. J. Jenkin, Esq., C.E.	5	1	0	272	948	37.32	206
D „ (Etchingham Park) ..	Mrs. J. W. Scott	5	1	2	295	909	35.80	204
D† Southgate (Reservoir Road)	late W. B. Butler, Esq.	5	1	0	255	899	35.40	194
D Ponders End (Bylock Hall)	H. E. Freir, Esq.	5	1	0	50	865	34.05	204
D† „ „ Pumping Station ..	Met. Water Board	8	1	0	45	844	33.24	172
D Hadley Wood (Camlot)	late Miss Paget	5	1	1	350	868	34.16	171
D „ „ (West Lodge) ..	H. K. G. Rogers, Esq.	5	0	10	350	917	36.12	208
D† Enfield (Southbury Road)	Met. Water Board ..	5	1	0	109	852	33.53	188
D „ (Public Offices) ..	Dr. W. P. Warren	8	43	0	141	800	31.50	184
D† „ (Carisbrooke Culloden Rd.) ..	J. McEwan, Esq.	5	1	0	204	895	35.23	194
D „ (Clay Hill)	G. H. C. Lea, Esq.	5	1	0	200	898	35.36	213
D „ (Roselands, Turkey Street) ..	E. S. Rashleigh, Esq.	5	0	7	80	829	32.65	184
D Sewage Works [Waltham]	J. E. Sharpe, Esq.	5	1	0	61	841	33.10	167
D Potter's Bar (North Lodge)	late Sir W. Gundry	5	1	0	332	850	33.45	190
HERTFORDSHIRE. (Area, 635 sq. mi.)								
1.—THAMES—Thame. 10 sq. mi.								
D Tring (Grove Lodge)	Miss Boyson	8	1	0	450	884	34.80	215
D „ (Pendley Manor)	Mrs. Williams	5	2	0	420	901	35.49	202
2.—THAMES—Colne. 199 sq. mi.								
D Gate House [Northwood]	O. S. Holt, Esq.	8	4	6	448	950	37.40	205
D Rickmansworth (Moor Park) ...	Lord Ebury	5	2	0	340	814	32.04	198
D „ (Croxley Green) ..	S. Ingleby Oddie, Esq.	5	0	7	250	854	33.63	172
D† Totteridge (West Lodge)	W. H. Newman, Esq.	5	1	0	390	906	35.68	194
D† Elstree (Aldenhall House) ... (R)	Mr. E. Beckett	10	4	9	305	811	31.94	180
D Watford (Oxhey Grange)	J. Doyle Penrose, Esq.	5	1	0	295	839	33.05	177
D „ (Bushey Hall Road) ..	J. Durst, Esq.	5	1	2	230	868	34.16	199
D† Bushey (Colne Valley W.W.) ..	C. P. Sinclair, Esq.	5	1	0	200	816	32.12	188
D† Watford (London Orphan School)	Rev. E. Hartley-Parker ..	5	1	0	230	851	33.49	180
D† „ (Park Road)	E. J. Slinn, Esq.	5	1	6	263	813	32.01	194
D† „ (Weetwood)	J. Hopkinson, Esq.	5	1	0	269	869	34.22	205
D† „ „ „	M „ „ „	5	1	0	269	867	34.14	...
D Radlett (Sewage Works)	A. Gransby, Esq.	5	0	10	347	815	32.08	...
D† Shenley (Kitwells)	T. H. Riches, Esq.	5	1	0	420	868	34.17	179
D „ „ „	M „ „ „	5	1	0	420	847	33.35	...
D Sarratt (Goldingtons)	P. Clutterbuck, Esq.	8	3	0	360	922	36.29	190
D† Chipperfield (Little Callipers) ..	A. W. Rivington, Esq.	5	1	0	407	877	34.52	163
D† King's Langley (Langley Rise) ..	T. Goldring, Esq.	5	1	0	360	876	34.47	182
D „ „ (Barnes Lodge) ..	J. Hopkinson, Esq.	5	1	0	350	871	34.29	...
D London Colney (Bowmans)	C. Barwell Field, Esq.	5	1	0	235	862	33.92	202
D Hemel Hempstead (Apsley Mills)	Messrs. J. Dickinson & Co.	24	1	4	260	875	34.46	206
D St. Albans (Hill End Asylum) ...	G. Goodchild, Esq.	5	1	0	295	802	31.57	162
D „ (County Museum) ..	J. Hopkinson, Esq.	5	1	0	389	878	34.55	199
D „ (Jennings Road)	M. L. Nicholas, Esq.	5	1	6	380	851	33.49	208
D „ (Gorhambury)	Mr. W. Newberry	5	1	0	423	932	36.68	195
D† Berkhamsted (Anglefield)	E. T. Browne, Esq.	5	1	0	450	912	35.92	197

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 n. or more
		Diam.	Height Above Ground Sea Level			1916		
		in.	ft.	in.	feet.	mm.	inches.	
HERTFORDSHIRE—(con.)								
2.—THAMES—Colne—(con.)								
D Tring (Cowroast Lock)	W. Yates, Esq.....	5	3	8	394	879	34·62	165
D Childwickbury Gardens.....	Mr. T. Nutting	8	1	0	400	926	36·46	181
D Gt.Gaddesden (GoldenParsonage)	Elliott Kitchener, Esq....	8	1	0	536	886	34·87	207
Harpenden (Rothamsted)	Lawes Agricultural Trust..	5	0	9	420	812	31·99	192
" " " " " " " " " " " "	" " " " " " " " " " " "	8	0	9	420	806	31·72	193
D " " " " " " " " " " " "	" " " " " " " " " " " "	72X87	0	9	420	908	35·75	215
3.—THAMES—Lea. 340 sq. mi.								
D New Barnet (Gas Works)	F. J. Bancroft, Esq., C.E..	8	1	0	217	862	33·92	192
D " " (Green Hill Park).....	Mr. W. Lockyer	5	1	10	289	915	36·01	202
D Barnet (Summerhill).....	F. A. Milne, Esq.	5	0	10	400	866	34·08	196
D " (Bedford Avenue)	Miss Haines	5	1	3	350	946	37·24	231
D Hadley (Hadley Bourne)	Mrs. Weber	5	1	0	430	931	36·65	209
D Cheshunt (Manor House)	J. E. Sharpe, Esq.....	5	1	0	83	840	33·08	182
D " (Goff's Oak House) ...	W. M. Cuningham, Esq..	5	1	0	310	883	34·75	195
D† " Yard	Met. Water Board	5	1	0	100	811	31·92	191
D " (DarnicleHillPump.Stat.)	J. E. Sharpe, Esq.....	5	1	0	250	899	35·39	192
D Northaw (St. Just).....	Miss Poland	5	1	0	400	909	35·77	216
D†Broxbourne (Stafford House) ...	A. F. Newbery, Esq.	5	1	0	118	808	31·81	193
D†Hoddesden (Feilde's Weir)	Met. Water Board	8	3	8	95	780	30·72	192
D Haileybury (Hailey House)	P. H. Latham, Esq.	5	1	0	260	788	31·02	192
D " College	A. A. Lea, Esq.	8	1	0	270	783	30·82	201
D Gilston Park	Mr. E. Leach	8	1	0	175	822	32·36	176
D Hatfield (Holwell House).....	Wilfrid E. Laurie, Esq...	5	1	6	240	811	31·94	179
D " (Surveyor's Office).....	J. S. Killick, Esq., C.E..	5	1	0	270	802	31·56	184
D Hertford (Bayfordbury)	H. W. Clinton Baker, Esq.	8	1	2	250	800	31·48	191
D Stanstead Abbots	E. H. Barlow, Esq.	5	1	2	115	828	32·58	174
D†Hertford (Sewage Works)	Met. Water Board	8	1	0	117	753	29·65	185
D†Ware (Red House).....	" " " " " " " " " " " "	5	1	0	115	756	29·77	196
D† " (Chadwell Spring)	" " " " " " " " " " " "	5	1	0	...	766	30·14	190
D Wareside Vicarage	J. W. B. Higgins, Esq...	5	1	0	201	787	31·00	204
D Welwyn (Bridge House)	Dr. B. W. Thomas	5	2	3	216	875	34·45	184
D " (Codicote Lodge)	Mr. F. A. Akers	5	1	0	340	812	31·95	210
D Much Hadham	T. Woodham Mott, Esq...	5	1	0	212	800	31·49	178
D Bishop's Stortford (Thorley) ...	Laurie Frere, Esq.....	5	0	8	182	755	29·71	198
D " " " " " " " " " " " "	H. Sheppard, Esq.....	5	1	0	300	744	29·27	176
D Standon	F. H. Wace, Esq.	5	1	0	385	720	28·33	194
D Bennington House	Miss E. A. Parker.....	5	1	0	406	761	29·96	214
† " Lordship	A. F. Bott, Esq.	5	0	10	365	804	31·64	207
D Little Hadham (Hadham Hall)..	W. Minet, Esq.	5	0	10	338	628	24·71	186
D Buntingford(Westmill,ColesPk.)	T. Greg, Esq.....	5	1	0	379	732	28·83	186
D Hitchin (Preston)	R. de V. Pryor, Esq.	8	2	5	480	817	32·16	201
D Weston Park	M. R. Pryor, Esq.....	5	0	8	470	814	32·04	197
D Furneaux Pelham (The Brewery)	G. W. Bindloss, Esq.	5	1	0	300	796	31·36	197
D Buntingford(ThrockingHallFm.)	Rev. B. W. Harvey	5	1	0	450	811	31·94	195
D Royston (Therfield Rectory). ...	Mr. J. Cracknell	5	1	0	513	772	30·39	187
4.—OUSE. 86 sq. mi.								
D Offley (School House)	C. W. Mears, Esq.....	5	1	0	526	757	29·82	189

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with- 0·1 in or more
		Diam. in.	Height Above Ground. Sea Level ft. in. feet.			1916 mm. inches.		
HERTFORDSHIRE—(con.)								
4.—OUSE—(con.)								
d† Hitchin (The Chilterns)	F. Ransom, Esq.	5	0	9	300	762	30·01	205
" " (Chiltern Road)	A. Latchmore, Esq.	5	1	0	297	731	28·79	201
d† " (High Down)	Miss E. Pollard	5	1	1	422	753	29·65	206
" " (Roxley House, Willian)	Mrs. H. Bendixson	5	1	6	370	692	27·25	168
" Letchworth (Garden City)	A. W. E. Bullmore, Esq. C.E.	5	1	0	218	760	29·92	161
" " (Gernon Road)	A. W. Brunt, Esq.	5	1	0	290	771	30·35	213
" " (Broadway)	W. Steen, Esq., M.D.	5	1	0	310	741	29·19	191
" Royston (Barley)	W. W. Cook, Esq.	5	1	0	300	769	30·27	189
" " (Earlshill House)	J. Phillips, Esq.	8	1	6	225	732	28·81	196
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	914	36·00	195
d Weston Turville (Yaxley Lodge)	Miss Morris	5	1	1	335	765	30·11	181
" "	G. Eland, Esq., per M.O.	5	1	0	314	761	29·92	163
Bulbourne [Tring]	W. Yates, Esq.	5	2	3	401	833	32·81	175
Mentmore Gardens	Mr. J. MacGregor	5	1	2	400	784	30·87	...
3.—THAMES—Wye & c. 129 sq. mi.								
d Datchet (The Vicarage)	Rev. J. H. Harvey	5	1	0	60	785	30·91	190
d Eton (Tangier Islands)	E. A. Stickland, Esq.	5	1	0	67	843	33·19	184
† Slough (Upton)	R. Bentley, Esq.	8	2	0	80	780	30·72	...
d† " ("")	" " " "	5	2	0	78	807	31·76	205
d Taplow (Hitcham Grange)	Hon. C. S. Irby	5	0	9	200	769	30·26	171
Burnham (Burnham Cottage) ...	G. J. Williams, Esq.	5	3	0	182	789	31·08	...
Farnham Royal (The Chase)	F. C. Carr-Gomm, Esq.	5	3	0	169	858	33·76	168
d Stoke Poges (Stoke Court)	H. Allhusen, Esq.	8	1	4	196	837	32·97	151
d Greenlands [Henley-on-Thames]	Lord Hambleden	5	1	3	116	905	35·64	162
d Hedsor	Lord Boston	8	1	0	170	969	38·16	178
d Bourne End (The Bourne)	A. Morse, Esq.	5	1	0	240	861	33·90	177
d Marlow (Thames Bank)	S. H. Wright, Esq.	8	2	0	105	1011	39·82	212
d High Wycombe	H. S. Wheeler, Esq.	5	0	11	253	907	35·72	200
d Penn (Rayners)	Sir P. F. Rose, Bart.	5	1	3	547	967	38·08	200
d Bradenham House	Mrs. Tempest	8	0	8	420	984	38·72	162
d Hampden House	Earl of Buckinghamshire	5	1	0	690	894	35·21	192
4.—THAMES—Colne. 133 sq. mi.								
d Slough (Langley)	R. H. Major, Esq.	8	0	10	85	798	31·43	177
d Chalfont St. Peter (Chalfont Park)	Mr. G. Barrell	5	1	0	201	863	33·96	185
d Chalfont St. Giles (The Stone) ...	Col. R. W. Phipps	5	1	0	270	915	36·04	201
" " ("")	" " " "	5	1	0	270	888	34·97	...
d† Amersham (St. Mary's Sch.) No. 1	W. Garton, Esq.	5	1	9	340	926	36·47	187
" " ("") No. 2	" " " "	5	1	0	340	940	37·01	193
d† " (The Plantation) ...	G. Weller, Esq.	8	1	0	464	950	37·42	205
d " (Latimer Ho. Gardens)	Mr. W. Stephens	8	1	7	400	1008	39·68	201
Chesham Bois Rectory	Rev. T. H. Fitzpatrick	5	0	11	530	939	36·97	190
5.—OUSE. 293 sq. mi.								
d Oving House	H. Yates Thompson, Esq.	5	1	0	515	833	32·80	194
" "	" " " "	5	1	6	515	820	32·29	...

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
BUCKINGHAMSHIRE—(con.)								
5.—OUSE—(con.)								
D Wing (Burcott)	Richard H. Ayres, Esq....	5	1	6	407	832	32·75	163
D Winslow (Norden House).....	Dr. T. F. Vaisey.....	5	0	9	...	819	32·23	146
D Addington (C. of E. School).....	J. H. Webster, Esq.	5	0	8	350	767	30·20	184
Stockgrove Pk. [Leighton Buzzard]	Mr. J. Clues	5	1	2	500	715	28·14	156
D Buckingham (Adstock Fields)...	W. Weston, Esq.	5	0	9	352	733	28·85	204
Old Tile House Gardens	Mr. W. Boulton.....	5	1	5	420	782	30·78	190
D Stony Stratford (Calverton Limes)	Mrs. Hawkins	5	1	8	230	754	29·70	172
D Wolverton (St. George's Vic.)...	Rev. W. L. Harnett	5	1	0	270	759	29·88	195
D „ (The School House)...	H. J. Hipsley, Esq.....	5	1	0	264	756	29·77	199
D „ (Council School)	„ „ „	5	5	0	263	778	30·63	...
D Newport Pagnell (The Croft) ...	F. Littleboy, Esq.....	5	2	0	191	779	30·67	196
D „ „ (Lovat Bank)...	late F. J. Taylor, Esq....	5	2	0	190	722	28·41	187
OXFORDSHIRE. (Area, 756 sq. mi.)								
1.—SEVERN—Upper Avon. 10 sq. mi.								
D Sibford Ferris (Woolman Cottage)	Joshua Lamb, Esq.	5	1	0	590	854	33·62	164
Sibford Gower	O. Hooper, Esq.....	5	1	4	600	737	29·01	181
2.—THAMES—Windrush & c. 261 sq. mi.								
D Kencot Rectory	Rev. H. E. Cooper	5	1	0	290	860	33·85	202
Witney (Cokethorpe)	Major H. G. Feilden .....	...	...	...	270	766	30·15	...
D Charlbury (Cornbury Park).....	Mr. B. Campbell	5	1	0	435	882	34·71	157
D „ (Wychwood House)...	J. H. Glen, Esq.	5	0	8	450	825	32·49	222
D Wootton Rectory	Rev. F. R. Marriott	5	0	10	370	888	34·96	178
D Lyneham.....	R. de M. Pratt, Esq.....	5	1	7	351	846	33·31	197
D Glympton Park	Major G. H. Barnett.....	12	2	6	...	768	30·24	167
D Chadlington (Langston House)...	Mrs. F. W. Schofield.....	5	0	11	420	862	33·93	166
D Sarsden (Estate Office).....(R)	J. M. Blair, Esq.	8	3	0	492	775	30·50	171
D „ Gardens	Mr. J. E. Vine	5	0	10	538	778	30·62	156
D Chipping Norton (The Bungalow)	T. H. Burbidge, Esq.....	5	1	0	700	914	35·99	202
D „ „ (Heythrop) ...	Albert Brassey, Esq.....	10	4	0	700	750	29·53	177
3.—THAMES—Cherwell. 250 sq. mi.								
Nuneham Park Gardens	Mr. C. E. Munday.....	8	3	0	280	761	29·97	...
D† Oxford (Hincksey Pumping Sta.)	W. H. White, Esq., C.E.	8	1	0	187	778	30·63	205
D „ (Osney Lock)	Thames Conservancy.....	5	2	0	186	788	31·02	185
D „ (Magdalen College)	J. J. Manley, Esq.	5	1	0	186	753	29·63	182
D „ „ „ „ „	„ „ „ „ „	5	33	11	223	703	27·66	...
D† „ (Radcliffe Observatory)...	Dr. A. A. Rambaut, F.R.S.	8	1	8	210	801	31·55	203
D† „ „ „ „ „ (R)	„ „ „ „ „	11	2	4	210	813	32·01	210
D „ „ „ „ „	Miss E. M. Tawney	5	1	0	215	745	29·32	184
D Headington (Warneford Asylum)	Dr. A. W. Neill.....	5	1	0	300	773	30·44	163
D „ „ (Charlton Lea)	Mr. L. Dawes.....	5	1	0	300	798	31·42	190
D Elsfeld Manor House	Miss M. J. Parsons	5	1	0	355	822	32·35	193
Islip.....	Col. G. E. Eliot.....	5	3	0	200	757	29·80	...
D Hampton Poyle Rectory	Rev. S. T. Gwilliam	5	1	0	201	784	30·88	172
Charlton-on-Otmoor School	E. Cartwright, Esq.	6	1	3	197	784	30·85	...
Bletchington	H. C. Witcombe, Esq. ...	5	1	6	329	1006	39·62?	161
Middleton Park	Earl of Jersey	5	2	6	326	875	34·44	194
D Steeple Aston (The Grange).....	Miss Bradshaw	8	1	0	400	904	35·58	202

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
OXFORDSHIRE—(con.)								
3.—THAMES—Cherwell—(con.)								
D Steeple Aston (Hill House)	B. S. Ogle, Esq.	5	0	5	400	848	33·40	198
D Swerford	W. Hall, Esq.	5	1	0	500	917	36·12	197
D South Newington Hill	C. J. Twist, Esq.	5	1	0	580	902	35·53	18
West Adderbury (St. Amand's)..	Miss M. M. Bradford.....	8	1	0	320	850	33·46	152
D Adderbury (Cross Hill).....	G. H. Norris, Esq.	5	1	1	338	801	31·52	193
" (The Rookery)	C. C. Bradford, Esq.	8	1	0	323	819	32·24	172
D Bodicote House	J. F. Starkey, Esq.	8	1	3	388	839	33·04	189
" (Draycott House)	F. B. Judge Baldwin, Esq.	5	1	8	391	773	30·43	...
D " Vicarage	Rev. H. N. Fowler	5	1	0	390	813	32·00	199
Broughton Rectory	Rev. B. W. Bradford.....	5	0	6	370	848	33·37	207
Wroxton.....	Hon. Mrs. FitzGerald.....	12	2	6	590	840	33·07	200
D Shenington School Gardens	Rev. A. Blythman.....	5	1	3	540	919	36·18	198
4.—THAMES—Thame & c. 210 sq. mi.								
Caversham (Eastfield)	C. M. Powell, Esq.	5	1	0	180	848	33·37	185
D " (Kidmore End School)	T. F. Higgins, Esq.	5	0	11	330	963	37·91	171
D Harpsden (Cray)	B. E. D. Kilburn, Esq.	5	0	8	230	877	34·51	184
D Goring (Elmeroft)	Major E. Gambier Parry ..	5	0	10	160	858	33·79	167
Henley-on-Thames (Peppard) ...	Rev. Hubert Shears	5	1	0	336	815	32·09	...
D " " (Hart Street)	A. Edward Hobbs, Esq. ...	5	1	6	110	872	34·31	195
D " " " (" " ")	" " " " " " " " " " " "	5	7	6	116	831	32·72	195
D " " " (Greys Green)	Miss Mary Davis	5	2	0	350	852	33·54	198
D " " " (" " Lane)	G. Potter, Esq.	5	0	9	123	867	34·15	167
D Nettlebed (Joyce Grove) ... No. 1	Mr. A. Johnstone	5	1	0	590	993	39·08	178
D " (" " ") ... No. 2	" " " " " " " " " " " "	5	1	0	590	961	37·84	189
D Benson Observatory	W. H. Dines, Esq., F.R.S.	5	1	0	186	720	28·34	182
" " " " " " " " " " " "	" " " " " " " " " " " "	...	1	0	187	770	30·32	198
D Dorchester (Bishops Court)	T. Latham, Esq.	5	2	0	169	698	27·49	189
D Abingdon (Culham School House)	F. Mitchell, Esq.	5	0	10	180	696	27·42	165
D Clifton Hampden (Manor House)	Lord Aldenham	5	1	0	190	751	29·55	182
D Watlington (Pyrton Manor)	Mrs. E. Hamersley	5	1	6	321	872	34·35	182
D Lewknor (Manor House)	Miss Spencer	5	1	3	360	884	34·82	206
Toot Baldon (Potlands)	D. Clinkard, Esq.	5	1	0	288	842	33·17	180
D Great Haseley (Manor House) ...	F. Gelderd-Somervell, Esq.	5	1	0	280	757	29·79	168
D† Waterstock	W. H. Ashhurst, Esq.	8	3	2	208	809	31·86	208
Thame (Tythrop House)	A. W. Smith, Esq. ....	...	...	...	230	801	31·52	...
Stanton St. John	P. P. Peacock, Esq.	5	1	6	358	920	36·24	...
" " (Woodperry) ...	J. Thomson, Esq.	6	1	0	399	854	33·61	163
5.—OUSE. 25 sq. mi.								
D Fringford	A. J. Jepson, Esq.	5	1	5	350	825	32·48	208
NORTHAMPTONSHIRE. (Area, 1003 sq. mi.)								
1.—SEVERN—Upper Avon. 60 sq. mi.								
D Winwick Warren	Col. R. H. Ainsworth.....	8	1	5	648	782	30·78	195
D Welford (Salford House)	late J. Gee, Esq.	5	1	3	566	766	30·17	196
2.—THAMES—Cherwell. 77 sq. mi.								
D King's Sutton (Astrop)	E. Browne, Esq.	5	1	0	338	783	30·84	179
" " School	A. H. Tilbury, Esq.	5	1	0	300	795	31·29	...
D Grimsbury (Banbury W.W.) ...	W. E. Wood, Esq.	5	1	3	320	691	27·20	192

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
NORTHAMPTONSHIRE—(con.)								
3.—OUSE. 148 sq. mi.								
D Brackley House.....	Capt. J. Allen.....	5	1	0	425	881	34·68	205
D Hartwell Vicarage.....	Rev. C. Ryder-Macnally..	5	1	10	403	886	34·90	232
Hargrave Hall	C. K. Murchison, Esq.....	5	1	0	273	710	27·94	...
4.—NENE. 622 sq. mi.								
Salcey Forest	Thomas Jones, Esq.	8	1	3	370	799	31·44	173
Courteenhall Grange.....	Capt. G. M. Archdale.....	5	0	11	280	644	25·35	171
D Blisworth (Crieff House)	A. Westley, Esq.	5	1	0	330	769	30·28	192
D „	T. W. Millner, Esq.	5	1	6	300	682	26·84	206
D Litchborough Hall.....	Major C. A. Markham...	5	1	10	500	826	32·52	184
D Castle Ashby	R. G. Scriven, Esq.	5	1	0	263	777	30·60	211
D Little Houghton House.....	Christopher Smyth, Esq..	5	2	2	271	744	29·29	187
D Northampton (Dallington Av.)...	Major C. A. Markham...	5	1	0	265	736	28·96	191
D „ (Kingsley Road)...	R. H. Primavesi, Esq. ...	5	...	...	...	729	28·72	196
D „ (General Hospital)...	Major C. A. Markham...	...	...	...	...	760	29·93	173
Hazelborough Woods.....	Harvey Gulliver, Esq. ...	8	1	0	241	867	34·14	200
D Great Billing Rectory	Rev. G. H. Mullins	8	1	6	275	710	27·96	199
D Daventry (Tunnel End)	T. W. Millner, Esq.	5	1	6	394	749	29·50	218
D Great Brington	Major C. A. Markham...	5	2	9	448	650	25·61	159
D Sywell Hall	T. A. Dickson, Esq.	5	1	0	371	730	28·75	189
D Pitsford (Sedgebrook)	Major C. A. Markham...	5	1	0	311	714	28·13	187
„ („)	„ „ „ „	5	1	0	311	712	28·05	...
D Rushden (Alfred Street School)...	S. Saddler, Esq.....	5	1	3	200	614	24·19	175
D Wellingborough (Swanspool) ...	N. Pearce Sharman, Esq..	5	0	2	155	675	26·58	185
D „ (Bushfield W.W.)	R. S. Henshaw, Esq., C.E.	8	0	11	286	732	28·82	194
D Watford Court	Major C. A. Markham...	9	1	2	380	716	28·18	150
D Ravensthorpe (Coton Mill)	G. S. Eunson, Esq.	5	1	0	355	744	29·28	200
D Brixworth Hall	Mr. J. Sutherland	8	0	8	400	748	29·46	184
Scaldwell.....	Capt. R. Soames.....	5	1	0	404	709	27·93	...
D Lampport Hall Gardens	Mr. F. Howard	8	1	2	440	733	28·87	175
D Raunds (Day School)	Léon G. H. Lee, Esq.....	8	1	0	205	740	29·13	191
D Cranford (Woodford House).....	E. N. Plevins, Esq.	8	1	0	252	664	26·13	179
D Kettering W.W. (Cransley)	T. R. Smith, Esq., C.E. .	8	0	6	275	732	28·81	178
D „ (Sewage Works)	„ „ „ „	8	1	0	199	769	30·27	191
D „ W.W. (Thorpe Malsor)	„ „ „ „	5	0	11	352	780	30·70	196
D „ „ (Clover Hill)...	„ „ „ „	5	0	7	344	758	29·84	188
„ (Warkton).....	Mr. R. H. Brett.....	5	1	3	275	764	30·09	156
Rothwell (Loddington)	Mr. J. Oliff.....	5	1	0	400	740	29·15	167
D Thrapston (Union Bank)	Major C. A. Markham ...	...	...	...	...	758	29·83	187
„ (The Limes).....	L. G. Cottingham, Esq...	5	1	0	106	635	25·01	177
D „ (Drayton House).....	J. Edmonds, Esq.	5	1	6	220	765	30·13	174
D Clopton Manor	Mrs. Buckley	6	0	11	245	721	28·37	205
D Aldwinkle St. Peter Rectory ...	Major C. A. Markham ...	5	0	11	175	729	28·69	168
D Rushton Manor	R. A. Willows, Esq.	5	1	0	400	802	31·57	183
D Rothwell (Shotwell Mill)	C. D. Rochester, Esq. ...	5	1	6	323	703	27·67	171
D Barnwell (Lilford Hall)	Mr. F. W. Gallop	5	1	0	...	742	29·22	164
D Oundle (Milton Road)	J. M. Siddons, Esq.	5	3	4	131	630	24·81	158
„ Waterworks	N. E. Dixon, Esq., C.E....	5	1	0	147	715	28·15	180
„ School	F. W. Sanderson Esq per MO	7	1	1	147	664	26·14	...
D Corby (Weldon Grange)	John Rooke, Esq.	8	1	0	342	723	28·47	212

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			1916		
		in.	ft.	in.	feet.	mm.	inches.	
NORTHAMPTONSHIRE—(con.)								
4.—NENE—(con.)								
D Decne Rectory	Rev. T. Catton .....	...	...	...	250	657	25·85	204
D Peterborough (Westbourne Ho.)	E. H. Colman, Esq.	8	1	0	38	680	26·76	180
D „ (Ashfield)	J. A. Percival, Esq.	5	0	7	30	674	26·54	177
D „ (Abbeyfields)	Major J. Shipley Ellis ...	5	0	6	49	700	27·55	179
D Wittering Rectory	Rev. S. B. Warde	5	1	0	180	736	28·98	188
D Eye (Northolm)	S. W. Egar, Esq.	5	1	0	17	714	28·10	200
D „ (Newborough)	R. Williams, Esq.	5	1	0	8	730	28·75	176
5.—WELLAND. 96 sq. mi.								
D Marston Trussell Rectory ... (R)	Rev. J. Knight Law	10	2	6	314	682	26·87	171
D Dingley Hall [Market Harboro']	Maj.-Gen. Lord Downe ...	5	1	6	400	738	29·07	173
Carlton Park Gardens	Mr. R. W. Thatcher	5	1	1	400	668	26·29	...
D Gretton (Gretton House)	Mr. J. Rogers	5	1	0	354	740	29·12	178
D „ School	W. Leeson, Esq.	5	1	0	363	689	27·14	181
Kings Cliffe (Fineshade Abbey) ..	Major C. A. Markham ...	5	0	9	200	646	25·44	...
Colleyweston (Cuckoo Lodge) ...	T. Booth, Esq.	8	3	0	300	707	27·85	...
Wittering (Whitewater)	„ „	8	3	0	241	692	27·26	...
D Etton [Market Deeping]	G. Nicholls, Esq.	8	1	0	25	658	25·92	168
HUNTINGDONSHIRE. (Area, 366 sq. mi.)								
1.—OUSE. 327 sq. mi.								
D St. Neots (Waresley Park)	the late Col. Duncombe ...	5	0	11	190	711	28·00	179
D „ (Great Paxton)	Rev. A. G. Cane	5	1	0	100	664	26·16	168
D Hemingford Grey (Millview) ...	G. F. Wilson, Esq.	5	1	6	20	619	24·36	180
D Huntingdon (Brampton Grange)	Rev. A. T. Thompson	5	1	6	47	713	28·07	165
D „ (Bosworth House) ..	H. Lucas, Esq.	5	5	9	40	621	24·44	194
D „ (Hinchingsbrooke) (R)	Mr. W. Prowting	8	6	0	74	739	29·08	185
D St. Ives (Slepe House)	Dr. W. R. Grove	5	1	0	25	670	26·37	170
D Catworth	Miss Pashler	5	0	9	210	733	28·84	177
D Whittlesea Mere	A. Lunn, Esq., C.E.	8	1	6	10	578	22·76	143
2.—NENE. 39 sq. mi.								
BEDFORDSHIRE. (Area, 467 sq. mi.)								
1.—THAMES—Colne. 20 sq. mi.								
Dunstable (Kensworth Vicarage)	Mrs. Litle	5	1	3	585	925	36·41	...
Luton (Stockwood)	E. R. Crawley, Esq.	5	3	0	539	744	29·31	191
2.—THAMES—Lea. 32 sq. mi.								
D Luton (Pumping Station)	J. W. Tomlinson, Esq., C.E.	5	1	0	343	734	28·91	188
D „ (Tennyson Road)	Harold F. Smith, Esq. ...	5	1	1	530	760	29·92	194
D „ (The Downs)	G. W. Pryer, Esq.	5	1	0	479	808	31·80	170
D Dunstable (The Grammar School)	W. D. Coales, Esq.	5	0	8	480	839	33·02	209
3.—OUSE. 408 sq. mi.								
D Woburn (Milton Bryant)	Mr. C. J. Kilby	5	1	0	510	792	31·20	169
D Shillington	Kilham Roberts, Esq.	5	1	0	182	765	30·11	174
D Ampthill (Higham Bury)	E. J. Jekyll, Esq.	5	1	0	310	742	29·21	179
D Shefford (Upper Stondon)	R. Long, Esq.	5	1	0	241	683	26·90	159
Apsley Guise (Oaklands)	Mrs. Dymond	5	1	0	410	700	27·54	181
D† Woburn (Crawley Mill Farm) ...	J. Crabtree, Esq.	8	1	0	292	710	27·96	188

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above		Sea Level	1916		
		in.	ft.	in.		feet.	mm.	inches.
BEDFORDSHIRE—(con.)								
3.—OUSE—(con.)								
D† Woburn (Fruit Farm, Ridgmont)	W. H. Neild, Esq.	5	1	0	270	726	28.59	201
D Stotfold (Three Counties Asylum)	Dr. L. O. Fuller	5	1	0	220	715	28.15	190
Shefford (Clifton Bury)	A. Inskip, Esq.	5	2	1	150	745	29.32	...
D „ Council School	G. F. Alldritt, Esq.	5	1	0	134	824	32.45	210
„ Hardwicke	H. Inskip, Esq.	5	1	0	60	777	30.61	...
Sandy (The Lodge)	Mrs. Farley	5	1	0	200	679	26.73	143
D „ (Beeston Grange)	Col. Maunsell Bowers	5	1	0	77	711	28.01	205
D Bedford (The Park)	N. Greenshields, Esq.	8	5	8	123	619	24.38	179
D „ (Castle Road)	Miss M. E. Newbery	5	7	0	108	684	26.92	172
Goldington (Castle Mills)	W. H. Rogers, Esq.	5	1	6	90	678	26.70	...
D Great Barford House	J. Arnold Whitechurch, Esq.	5	1	0	120	665	26.19	165
D Sharnbrook (Castle Close)	L. Stileman-Gibbard, Esq.	5	0	4	210	749	29.49	200
D „ (Colworth Gardens)	Mr. J. Hoad	5	2	0	250	705	27.77	159
4.—NENE. 7 sq. mi								
CAMBRIDGESHIRE. (Area, 859 sq. mi.)								
1.—STOUR. 17 sq. mi.								
2.—OUSE. 740 sq. mi.								
D Odsey [Ashwell]	Sir H. G. Fordham	5	1	0	256	702	27.62	188
Abington Pigotts	Mr. J. N. Woodham	8	0	8	130	619	24.38	143
Melbourne Vicarage	Mrs. de Courcy-Ireland	5	1	2	78	712	28.02	177
D Meldreth (Chiswick Farm)	A. Howard, Esq.	5	1	1	70	655	25.80	170
D Fowlmere (Fruit Farm)	H. F. Smith, Esq.	5	1	0	75	623	24.53	178
D Foxton (The Bury)	J. Gifford, Esq.	5	1	0	60	723	28.45	193
D Great Abington (Abington Hall)	Mr. F. Ripley	3	0	7	90	719	28.32	188
D Whittlesford (Sawston Hall)	D. L. Huddleston, Esq.	5	1	1	86	738	29.05	172
D Harston Vicarage	Mrs. C. M. Baldwin	5	0	8	47	669	26.35	141
Wimpole Hall	Mr. W. J. Snell	5	1	0	141	674	26.55	175
D Gamlingay (Old Woodbury)	Hon. C. H. Trevor	5	0	9	200	673	26.51	188
D Stapleford House	J. H. H. Linton, Esq.	5	2	3	64	664	26.16	169
D Balsham Rectory	Rev. H. J. E. Burrell	5	1	6	399	702	27.64	147
D Grantchester Mill	J. Nutter, Esq.	5	5	0	31	634	24.97	159
Cambridge W.W. (Fleam Dyke)	W. W. Gray, Esq., C.E.	5	1	5	99	598	23.56	184
D „ „ (Fulbourne)	„ „ „	5	1	0	37	620	24.39	205
D „ „ (Cherryhinton)	„ „ „	5	1	0	35	680	26.76	202
D „ „ (Hills Road, South)	Smith Nutter, Esq.	8	0	10	45	693	27.27	198
† „ „ (Herschel House)	C. N. H. Lock, Esq.	5	1	0	36	595	23.42	...
D† „ „ (Sidney Street)	Messrs. W. E. Pain & Sons	8	53	0	83	564	22.22	194
D „ „ (Corporation Store Yd.)	Julian Julian, Esq., C.E.	5	1	0	52	621	24.43	187
D† „ „ (Tenison Avenue)	W. B. Parsons, Esq.	8	1	2	40	621	24.44	181
D† „ „ (Pinehurst)	C. F. Foster, Esq.	5	0	10	36	634	24.97	194
D† „ „ (Botanic Gardens)	R. Irwin Lynch, Esq.	8	1	1	43	615	24.22	173
D „ „ (Corporation Pumping Sta.)	Julian Julian, Esq., C.E.	5	1	0	28	632	24.88	203
„ „ (Quy Hall)	T. Musgrave Francis, Esq.	5	0	5	24	633	24.94	193
D Boxworth [St. Ives]	E. H. Thornhill, Esq.	5	1	0	76	674	26.53	202
D Swaffham Prior Vicarage	Rev. L. Fisher	5	1	0	44	589	23.17	188
D Burwell	R. Stephenson, Esq.	5	2	0	58	697	27.44	179
Conington Hall [St. Ives]	Philip T. Gardner, Esq.	8	0	5	50	739	29.11	194

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above		SeaLevel	1916		
			Ground	feet.		mm.	inches.	
CAMBRIDGESHIRE—(con.)								
2.—OUSE—(con.)								
d Cottenham (Bernard House).....	A. Bull, Esq.....	5	2	0	30	593	23·36	146
d Stretham Engine	Mr. J. Housley	9	4	9	13	638	25·11	156
„ (Orchard House)	C. Wright, Esq.....	8	5	0	42	591	23·27	165
d Ely (The Palace)	Mr. A. Sewell.....	5	1	0	64	640	25·18	196
Chatteris (Holwood Farm)	Mr. G. Argent	5	0	10	12	671	26·41	...
„ (The Ferry) ..	Major B. J. Walker	5	0	10	23	539	21·23	...
Mepal Engine.....	Mr. J. Goodman.....	5	20	6	25	427	16·81	...
d Littleport (Highfield House) ..	H. G. Martin, Esq.	8	2	7	67	555	21·85	156
Chatteris (Aylesby House)	A. H. Ruston, Esq.	8	1	0	31	675	26·56	...
„ (The Priory)	H. F. Fryer, Esq.....	5	0	7	31	624	24·55	...
d March	A. Lunn, Esq., C.E.	9	2	0	10	649	25·57	169
d Upwell (Marmont Priory Lock)..	„ „ „	8	1	1	...	676	26·60	215
d Wisbech (Queen's Road)	H. Dann, Esq.	5	7	6	10	817	32·14	176
3.—NENE. 102 sq. mi.								
d Stanground Sluice	A. Lunn, Esq., C.E.	8	1	6	15	670	26·38	185
d Thorney (Bedford Office)	Hugh R. Brodie, Esq.....	8	3	6	9	604	23·78	154
d Parson Drove (Clows Cross)	W. Kingston, Esq.....	8	3	0	13	630	24·81	160
Wisbech (Bank House).....	Lord Peckover of Wisbech	8	0	8	6	739	29·08	161

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	735	28·92	181
♢ Leyton (Sewage Works)	E. H. Essex, Esq.	5	1	0	22	703	27·68	172
♢ Leytonstone (High Road)	Miss G. Lister	5	1	6	100	836	32·91	154
♢†Lea Bridge (Waterworks).....	Met. Water Board.....	8	0	6	23	748	29·47	171
♢†Walthamstow (Ferry Lane).....	„ „ „	5	0	10	30	759	29·87	186
♢†Woodford (Haggard Lane)	„ „ „	8	0	8	176	779	30·66	174
♢†Buckhurst Hill Reservoir.....	„ „ „	8	1	7	275	814	32·06	192
♢ „ „ (Ardmore)	Mrs. Eliot Howard	8	1	0	270	938	36·91	190
♢ Chingford (Crescent Road)	M. L. Mathieson, Esq. ...	6	2	9	200	765	30·11	189
♢† „ Mill	Met. Water Board.....	8	0	6	40	746	29·36	179
♢†Loughton (High Beech Reservoir)	„ „ „	8	1	0	376	871	34·29	194
♢†Waltham Abbey (Rammey Marsh)	„ „ „	8	1	0	60	831	32·72	188
♢† „ „ Pumping Station	„ „ „	8	1	3	66	873	34·38	175
♢ „ „ (Gunpr. Factory)	The Superintendent	5	2	0	64	670	26·37	186
♢ Hatfield Broad Oak (Barrington Hall)	A. H. Gosling, Esq.	5	0	10	300	806	31·72	205
♢ Hassobury [Bishop Stortford] ...	L. D. Gosling, Esq.	5	0	10	290	831	32·72	222
♢ Elsenham (Gaunts End)	H. Cotterell, Esq.	5	1	0	363	798	31·42	200
♢ Maunden.....	H. Sheppard, Esq.	5	1	0	250	855	33·66	...
♢ Berden	„ „	5	1	0	310	898	35·37	...
2.—THAMES—Roding & c. 316 sq. mi.								
♢ Tilbury (Park View Observatory)	S.A. Hill-Willis, Esq. C.E.	5	1	0	6	691	27·19	161
♢ Grays (Stanley Road)	A. C. James, Esq., C.E. ...	5	3	3	21	797	31·36	180
♢ „ Sewage Works	L. D. Holgate, Esq. ...	8	2	3	9	630	24·82	159
♢ „ (Central Park)	Med. Off. of Health, per MO	5	1	0	12	719	28·32	170

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground Sea Level			1916		
		in.	ft.	in.	feet.	mm.	inches.	
ESSEX—(con.)								
2.—THAMES—Roding & c—(con.)								
East Ham Well	Met. Water Board	8	0	11	17	680	26.79	186
Ilford Sewage Works	H. Shaw, Esq.	5	1	1	31	642	25.29	185
Bulvan (Pear Tree Corner)	Mrs. Read-Andrews	5	1	0	12	661	26.04	188
Vange Pumping Station	Southend Water Wks. Co.	5	1	0	43	638	25.11	154
Pitsea	"	5	1	0	29	676	26.60	141
Upminster (High House)	C. Reilly, Esq.	5	1	0	...	628	24.74	166
Hornchurch	W. J. Grant, Esq.	8	1	9	46	653	25.69	189
Wanstead (Red Bridge)	Met. Water Board	5	2	2	27	670	26.39	174
Manor Park (Albany Road)	A. J. Wilmshurst, Esq.	5	3	0	40	720	28.36	188
" (Cemetery)	Mr. J. D. Robertson	5	0	6	45	734	28.89	...
Romford (Harold Wood)	J. G. Broodbank, Esq.	5	4	0	120	688	27.07	199
Haverling Grange	G. P. Hope, Esq.	5	1	0	255	805	31.71	244
" -atte-Bower (Fernside)	Benjamin Smith, Esq.	5	1	0	341	907	35.72	221
Chigwell (Grange Court)	Hon. Cecil Baring	5	1	0	190	822	32.36	188
Theydon Bois (Thriffs Hall)	H. B. Debenham, Esq.	5	0	9	200	805	31.69	216
Epping (The Hemnalls)	Miss A. Nicholl	8	0	8	345	988	38.88	174
North Weald (Canes)	H. W. Hart, Esq.	5	1	11	250	837	32.96	174
3.—CROUCH. 186 sq. mi.								
Shoeburyness	Superintendt. of Expts.	8	1	0	13	574	22.62	199
"	"	5	1	0	13	572	22.51	...
Southend (Corporation Obsy.)	E. J. Elford, Esq., C.E.	8	1	0	90	599	23.59	156
" (Broadway)	H. J. G. Ralph, Esq.	5	1	0	78	589	23.21	...
" (Water Works)	Southend Water Wks. Co.	8	1	0	112	632	24.88	195
Leigh Reservoir	"	5	1	0	177	680	26.77	169
Eastwood Pumping Station	"	8	1	0	50	631	24.84	195
Thundersley Reservoir	"	5	1	0	277	674	26.55	151
Rayleigh (Wheatley's Lane)	A. H. Goodall, Esq.	5	1	0	250	697	27.46	190
Nevendon Pumping Station	Southend Water Wks. Co.	5	1	0	43	640	25.18	145
Billericay (Service Tank)	"	5	1	0	310	739	29.10	180
" (Ramsden Hall)	T. W. Bacon, Esq.	5	0	9	260	779	30.66	200
Wickford (Runwell Hall)	Lt.-Col. H. Kemble	5	1	0	75	880	34.66	196
Rettendon Place	Miss M. Meeson	8	0	10	120	725	28.55	183
" Rectory	Rev. G. Evans-Gwynne	5	0	5	120	685	26.95	...
Woodham Ferrers (Edwins Hall)	late Mrs. Pope	5	1	0	180	758	29.84	191
Southminster (The New Moor)	E. J. Attenborough, Esq.	...	...	...	...	703	27.67	...
" (North End)	Mrs. Owen	5	1	0	60	673	26.48	174
Bradwell-on-Sea (Bradwell Hall)	J. C. Chillingworth, Esq.	5	1	1	27	597	23.49	156
4.—BLACKWATER. 425 sq. mi.								
Brentwood (Shenfield, The Lodge)	H. P. Landon, Esq.	5	0	7	303	842	33.16	186
South Hanningfield (Peardowns)	W. Hill, Esq., per M.O.	...	...	...	134	776	30.56	159
Ingatestone (Fryerning)	A. E. Christy, Esq.	5	1	0	291	765	30.11	172
Maldon (Hazeleigh Rectory)	Rev. G. H. Raynor	7	1	1	161	737	29.02	195
Danbury Rectory	Rev. J. Bridges Plumpton	5	1	0	365	742	29.20	197
Maldon	Messrs. H. T. Eve & Co.	5	0	8	10	676	26.63	...
Writtle (Melbourne)	J. A. Rosling, Esq.	5	0	9	140	760	29.91	202
Chelmsford (County Laboratories)	R. M. Wilson, Esq.	5	1	0	140	759	29.89	155
" (High Street)	F. Chancellor, Esq.	8	1	0	92	733	28.86	200
Roxwell	R. W. Christy, Esq.	5	1	0	180	746	29.37	...
Chignall Hall	Austin Matthews, Esq.	5	1	4	152	729	28.72	...

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with '01 in. or more
		Diam.	Height Above			1916		
			Ground	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
ESSEX—(con.)								
4.—BLACKWATER—(con.)								
Great Waltham (Chatham Hall)	Col. R. Egerton	5	1	0	156	799	31·47	209
Witham (Terling Vicarage)	H. C. Boutflower, Esq.	5	1	0	115	778	30·63	201
Great Leighs (Lyons Hall)	J. H. Tritton, Esq.	5	3	0	130	755	29·74	171
Witham (Faulkbourne Hall)	Miss C. L. Parker	5	0	8	100	766	30·16	200
Hartford End (Leez Priory)	M. E. Hughes-Hughes Esq.	5	1	0	170	814	32·05	215
Kelvedon (Lawn House)	F. Randolph-Symmons Esq.	5	1	0	96	809	31·85	189
„ (White Barn)	W. & H. J. Sheldrake, Esqs.	5	1	5	135	746	29·37	182
„ (Feering Vicarage)	Rev. A. F. Curtis	5	1	0	100	794	31·28	204
Felsted School	J. H. Owen, Esq.	5	1	2	248	794	31·26	197
Little Dunmow Council School	Miss M. G. Archer	5	1	0	258	794	31·25	183
„ „ (Farm)	Messrs. Hasler & Clapham	6	0	6	...	787	30·98	147
Great Dunmow	„ „ „	5	0	6	215	795	31·29	...
Little Dunmow (Throws)	Miss Webb	5	1	4	283	787	30·98	147
Pattiswick Hall	Joseph Smith, Esq.	5	0	10	220	787	30·99	149
Braintree (Bocking, Fennes)	H. S. Tabor, Esq.	5	1	0	240	763	30·03	187
Stisted	Essex County Chronicle	...	...	...	200	789	31·07	...
Great Saling (Saling Grove)	Mrs. Nicholls Harrison	8	1	0	290	785	30·92	189
„ „ (Woolpits)	Joseph Smith, Esq.	5	1	0	280	738	29·07	...
Shalford (Littles)	W. F. Hart, Esq.	5	1	8	260	792	31·18	187
5.—COLNE & C. 283 sq. mi.								
Mersey Island (Waldegraves)	E. Anglian Daily Times	...	...	...	55	596	23·48	...
Clacton-on-Sea	Mr. A. W. Shadick	8	1	2	55	606	23·85	176
Great Clacton (Clay Hall)	Philip Smith, Esq.	5	2	0	45	590	23·24	177
Tiptree	Messrs. Wilkin & Sons, Ltd.	5	0	6	170	702	27·64	152
St. Osyth (Warren Farm)	A. E. Dale, Esq.	5	3	0	...	633	24·93	...
Walton-on-the-Naze	C. W. Close, Esq., per M.O.	8	1	0	70	594	23·40	194
Fingringhoe (Ballast Quay Farm)	T. B. Grubb, Esq.	5	2	0	47	727	28·63	166
Colchester (Berechurch)	R. P. Blyth, Esq.	5	0	9	120	769	30·29	156
„ „ (King's Ford)	Hon. Lady Digby	5	1	0	103	738	29·07	222
„ „ (Boro' Surveyor's Office)	H. Collins, Esq., C.E.	8	17	0	82	701	27·60	178
Lexden (Hill House)	S. F. Hurnard, Esq.	5	1	0	90	733	28·84	171
„ „ „	M „ „ „	5	1	0	90	720	28·34	...
„ „ „ (Home Farm)	Mr. W. Bird	5	1	0	125	732	28·81	...
„ „ „ Rectory	Rev. T. S. Raffles	5	0	11	100	773	30·45	173
Great Bromley (Broughton)	W. Arnold Roberts, Esq.	5	1	3	115	815	32·10	168
Earls Colne (Chalkney House)	H. F. Hills, Esq.	5	1	3	188	896	35·29	176
Manningtree (Bradfield Lodge)	G. Hempson, Esq.	5	1	0	113	804	31·64	157
Halstead (The Brewery)	E. T. Adams, Esq.	5	1	0	140	864	34·01	192
„ „ (Grammar School)	Miss Coles	5	1	0	220	809	31·85	170
Great Maplestead (Monk's Lodge)	T. F. Miller, Esq.	5	0	9	230	820	32·30	...
Great Yeldham (The Oak House)	G. A. Goodchild, Esq.	5	1	6	150	756	29·78	193
„ „ „ (Tilbury Hall)	R. E. Vaisey, Esq.	5	1	0	250	806	31·75	...
Ridgewell (Ridgewell Hill)	Miss E. E. W. Gurney	5	1	0	269	775	30·49	218
6.—STOUR. 110 sq. mi.								
Harwich (Coastguard Station)	Mr. W. Bevan	5	1	0	40	596	23·47	...
Lawford (Dale Hall)	W. H. Richardson, Esq.	5	1	0	110	790	31·09	158
Dedham (Dalethorpe)	J. D. Tremlett, Esq.	5	1	1	54	784	30·86	178
Bulmer Lodge [Sudbury]	Miss Burke	5	1	3	200	843	33·20	196
Walter Belchamp (Eyston Hall)	Capt. J. A. Daniell	5	1	0	187	750	29·52	...

DIVISION IV.—EASTERN COUNTIES—(continued).

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DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground. Sea Level		1916			
		in.	ft.	in.	feet.	mm.	inches.	
SUFFOLK—(con.)								
4.—YARE & C. 208 sq. mi.								
D Bacton.....	W. R. Church, Esq.	5	1	3	186	792	31.20	202
Horham Rectory.....	Rev. J. E. Soden.....	5	1	4	180	894	35.21	182
D Halesworth (Rumburgh Vic.) ..	Rev. W. Linton Wilson...	5	3	0	148	726	28.60	191
D Herringfleet (The Gables)	G. H. Wyllys, Esq.	5	0	8	52	788	31.04	192
D Lound Pumping Station	Lowestoft Water & Gas Co.	8	1	0	34	705	27.77	169
Fritton Hall	Mrs. H. E. Buxton.....	8	0	10	40	726	28.59	149
„ Warren	Gen. R. Upcher, C.B.....	5	0	6	42	815	32.08	196
D St. Olave's Priory (Boat House)	Surg.-Gen. W.A.S. Wynne	8	1	0	7	789	31.06	198
D Burgh Hall [Yarmouth]	H. P. Frederick, Esq.....	8	0	6	45	753	29.65	207
[Gorleston].....	Meteorological Office	8	1	0	16	703	27.69	186
5.—OUSE. 378 sq. mi.								
Bradfield St. George School	R. W. Thompson, Esq....	5	0	10	300	719	28.29	173
Drinkstone	J. E. Townsend, Esq.....	5	3	0	220	774	30.49	165
D Little Saxham Rectory	Rev. H. I. Kilner	8	0	10	220	777	30.60	198
D Bury St. Edmunds (Westley) ..	R. Burrell, Esq.....	5	1	0	226	837	32.95	202
D „ „ „ (Northgate St.)	Rev. J. S. Pratt.....	5	1	0	100	809	31.87	200
Herringswell Rectory	Rev. E. H. Wright	5	0	6	...	674	26.55	166
D Mildenhall	H. R. W. Forster, Esq...	5	1	3	50	630	24.81	210
†Barningham (The Beeches) ... M	Miss A. K. Lingwood.....	8	0	9	136	752	29.62	...
D Elveden Hall	Viscount Iveagh, K.P....	5	1	0	130	753	29.65	213
NORFOLK. (Area, 2044 sq. mi.)								
1.—YARE. 658 sq. mi.								
D Brockdish Rectory.....	Rev. Wilson W. White..	8	1	3	115	660	26.00	194
Diss (The Cedars)	Dr. H. M. Speirs	10	1	0	108	675	26.59	187
D Pulham St. Mary (Hill House)...	W. G. Rutter, Esq.	5	1	2	120	732	28.83	197
„ Market School.....	W. H. Pumfrey, Esq.....	5	1	0	131	804	31.65	167
Geldeston [Beccles]	Miss S. S. Dowson	5	1	0	38	748	29.44	...
D Long Stratton (Gt. Moulton Rec.)	Rev. T. D. Chute	5	0	6	150	821	32.32	168
D „ „ (Fritton Rectory)...	Mrs. Howes	5	1	0	120	751	29.57	212
D Ditchingham	W. G. Rutter, Esq.	5	1	0	...	693	27.30	184
D Toft Monks School.....	W. B. Alexander, Esq....	5	1	0	60	760	29.93	219
D Raveningham Hall [Beccles] ...	N. H. Bacon, Esq.	8	0	10	75	821	32.34	178
D Saxlingham Nethergate	Mrs. Pitt.....	5	1	5	...	712	28.03	205
D Wymondham	J. B. Pomeroy, Esq.	8	1	3	118	940	37.02	198
D Hingham Hall	E. Noel, Esq.....	5	1	1	190	856	33.70	219
D Dunston Hall.....	A. W. Preston, Esq...	5	4	0	100	805	31.68	194
D†Keswick Old Hall	E. Knight, Esq.....	5	1	0	90	806	31.75	215
D Hethersett (Cedar Grange)	F. A. Bainbridge, Esq....	5	0	9	150	825	32.48	203
D Yarmouth (Northgate St.) Snow.g.	G. W. Hughes, Esq.....	5	1	0	7	791	31.14	218
D „ „ „ „ „ Glaisher g.	„ „ „ „ „	8	0	11	7	796	31.32	217
D „ „ „ „ „ Howard g.	„ „ „ „ „	5	1	0	7	745	29.33	203
D†Norwich (Christ Church Rd. Eaton)	A. W. Preston, Esq.....	5	1	0	98	830	32.68	223
D „ „ (Carrow House)	Miss Colman	5	1	3	35	810	31.89	179
Brundall (Blofeld Road)	A. W. Preston, Esq.....	5	1	0	55	760	29.92	194
D Norwich (Ipswich Road)	J. H. Willis, Esq.....	5	1	0	110	787	31.00	203
D „ „ (Heigham Cemetery)...	A. W. Preston, Esq.....	5	3	2	37	789	31.06	209
D Drayton Rectory .....	„ „ „ „ „	...	...	...	...	888	34.97	230

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground.		Sea Level	1916		
		in.	ft.	in.	feet.	mm.	inches.	
NORFOLK—(con.)								
1.—YARE—(con.)								
Drayton Hall	J. H. F. Walter, Esq.	6	0	6	...	846	33·31	...
d Swanton Morley Rectory ...	Rev. G. D. Barry	5	...	...	105	745	29·33	166
d Bylaugh Park Gardens	Mr. G. Beeton	5	1	0	130	830	32·66	186
d Swanington (Heath House)	P. Norgate, Esq.	5	1	3	91	860	33·85	212
d „ Rectory	Rev. G. B. Atkinson	5	2	7	90	816	32·13	196
d Great Massingham	Dr. Walter Dick	5	1	0	269	748	29·43	193
d Reepham (Old Brewery House) ..	A. W. Preston, Esq. ....	...	...	...	150	891	35·08	195
d Cawston Rectory	Rev. T. H. Marsh	5	1	0	120	864	34·00	187
d East Rudham	Miss F. E. Mays	5	2	0	140	871	34·29	208
2.—YARE—Bure & c. 368 sq. mi.								
d Moulton	A. W. Preston, Esq.	4	...	...	...	733	28·84	186
d Acle	„ „ „	5	0	6	51	791	31·15	212
d Sprowston (Oak Lodge)	„ „ „	5	1	0	100	819	32·26	221
d „ Hall	Sir Eustace Gurney	5	1	0	90	785	30·90	202
d Yarmouth (Ormesby St. Michael)	Gt. Yarmouth W.W. Co.	8	1	0	21	832	32·76	279
d Coltishall	A. W. Preston, Esq. ....	...	...	...	...	782	30·80	212
d Aylsham (Rippon Hall)	Major H. S. Marsham	5	0	6	90	823	32·39	161
d „ (Millgate)	A. W. Preston, Esq.	5	1	0	40	954	37·55	189
d „	W. C. P. Cooper, Esq.	5	0	7	120	823	32·39	193
d Worstead (Frankfort Manor) ...	J. R. W. Pigott, Esq.	5	5	4	50	752	29·59	170
d „ (Dilham)	A. W. Preston, Esq.	5	0	8	...	746	29·36	234
d „ (The Rookery, Dilham)	H. Morse Taylor, Esq.	5	28	0	53	725	28·53	190
d „ (Lyngate Cottage) ...	R. J. Cross, Esq.	8	1	0	55	758	29·84	197
d „ (The Grange)	Rev. F. W. Walter	5	1	0	40	765	30·12	178
d North Walsham (Empson House)	W. S. Horn, Esq.	5	1	0	102	741	29·17	205
d „ „ (Gunton Park) ..	A. W. Preston, Esq. ....	...	...	...	...	830	32·68	167
d Wickmere	J. Blott, Esq.	5	6	3	150	656	25·84	208
d Mundesley-on-Sea (Raxawa Ho.)	C. S. Morris, Esq.	8	...	...	...	710	27·95	...
d Cromer (Northrepps Hall)	Mrs. R. Gurney	5	1	4	225	805	31·70	220
3.—STIFFKEYS & C. 288 sq. mi.								
Little Massingham	Rev. H. L. Brereton <i>per</i> MO	5	1	2	280	787	30·98	205
d Sandringham House Gardens ...	Mr. T. H. Cook	5	1	1	121	801	31·55	229
d Cromer	Urb. Dist. Council <i>per</i> M.O.	8	1	0	197	591	23·26	213
d „ (The Warren)	F. H. Barclay, Esq.	8	1	8	101	709	27·90	170
d Blakeney	Mr. R. Lee	5	1	3	29	776	30·57	255
d Wells (Holkham Hall)	Earl of Leicester, G.C.V.O.	12	3	8	39	708	27·86	172
4.—OUSE & C. 683 sq. mi.								
Garboldisham	T. P. Godfrey, Esq.	5	1	0	100	809	31·85	...
d Thetford (Ford Street Gardens) ..	Mr. A. Pipe	5	1	0	44	780	30·71	159
d „ (Waterworks)	Mr. E. S. Greenwood	8	1	0	170	778	30·63	216
d Kenninghall	A. B. Smith, Esq.	5	1	0	100	749	29·48	186
d Quidenham Hall	Earl of Albemarle, K.C.V.O.	5	1	0	100	754	29·70	177
d Hargham	Sir H. R. Beavor, Bart.	5	0	3	120	776	30·57	175
d Caston Rectory	Rev. W. H. Partridge	5	1	0	148	856	33·71	217
d Watton	A. A. Gompertz, Esq.	5	1	0	166	776	30·53	158
d Stoke Ferry (Wereham)	G. Read, Esq.	5	2	3	66	769	30·27	238
d Downham (Stradsett)	J. C. Cottam, Esq.	5	1	0	55	694	27·34	152
d „ (Dial House)	T. H. Wenn, Esq.	5	1	6	...	686	27·01	173
d Outwell (Wellbreck Sluice)	A. Lunn, Esq., C.E.	9	2	6	16	672	26·46	225

DIVISION IV.—EASTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above		1916			
			Ground	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
NORFOLK—(con.)								
4.—OUSE & C—(con.)								
D Emneth	F. M. Bland, Esq.....	5	1	0	6	747	29.40	171
D Swaffham	W. H. Plowright, Esq....	5	5	0	250	714	28.12	186
D „ (The Paddocks)	H. W. Coe, Esq.....	5	0	8	245	751	29.56	195
D „ (Homewood)	Messrs. Vynne & Everett	5	2	7	210	788	31.01	157
D Sporle	T. S. Matthews, Esq.....	8	4	0	230	833	32.80	236
D Swaffham (Little Dunham)	A. W. Preston, Esq.....	5	1	1	320	797	31.37	221
D Wiggenhall (St. Germans Sluice)	A. Lunn, Esq., C.E.	8	1	6	...	711	28.00	184
Terrington St. Clement.....	E. A. Walker, Esq.	5	1	0	8	619	24.37	148
D Gaywood (Rosebery Road)	S. S. Burlingham, Esq....	5	...		27	761	29.95	205
5.—NENE. 47 sq. mi.								

DIVISION V.—SOUTH WESTERN COUNTIES.

WILTSHIRE. (Area, 1375 sq. mi.)

1.—LOWER AVON. 386 sq. mi.								
Corsley (Sturford Mead)	H. Theodore Cookson, Esq.	5	1	0	460	1108	43.62	208
D W. Lavington (Dauntsey Agric. Sch)	F. O. Solomon, Esq.	8	1	5	300	876	34.49	178
D Edington Vicarage	Rev. E. C. Alexander.....	5	0	8	334	894	35.18	181
D Erlestoke Vicarage	Rev. H. S. Travers	5	0	6	320	905	35.62	174
Market Lavington	Miss A. P. Bouverie	5	0	10	290	858	33.78	181
D Trowbridge W.W. (Biss Bottom)	W. W. Gray, Esq., C.E....	5	1	0	311	1043	41.06	201
D „ (Rood Ashton)	Mr. W. Strugnell	8	1	6	250	1111	43.73	218
D Bradford (Winsley Manor)	E. W. Knatchbull, Esq....	5	0	6	400	848	33.39	196
D „ (Bearfield House)	G. A. R. FitzGerald, Esq.	5	1	10	290	934	36.77	184
D „ (Woolley Grange)	P. K. Stothert, Esq., C.E.	5	0	8	216	936	36.84	181
D Seend (Cleeve House)	(R) W. Heward Bell, Esq.....	...	1	0	160	893	35.17	207
D „ (Manor Cottage)	Rev. E. S. Awdry	5	1	0	305	824	32.44	207
D „ (Ferrum Towers)	H. W. Langley Haigh, Esq.	8	1	3	250	946	37.24	211
D Holt (The Retreat)	A. V. H. Beaven, Esq....	5	2	6	145	911	35.86	172
D Devizes (Wilts Co. Asylum) ...	Dr. S. J. Cole	8	2	3	385	730	28.73	170
D Corsham (Pickwick)	Miss Swayne Farebrother	5	1	0	338	998	39.30	210
D Calne (High Street)	E. W. Brown, Esq.....	4	1	0	242	872	34.33	194
D „ (Compton Bassett Gardens)	Lt.-Col. A. W. H. H. Drake	5	2	0	500	895	35.23	194
Chippenham (Rowden Hill)	Daniel Collen, Esq.	5	1	4	223	949	37.38	...
„ (Kington Langley)	Charles Garnett, Esq.....	8	1	0	270	826	32.51	...
D Wroughton (Basset Down House)	Mrs. Story Maskelyne....	5	1	0	500	906	35.69	193
Malmesbury (Cowbridge House).	C. E. de Bertodano Esq. per MO	5	1	0	236	956	37.65	186
D „ (Charlton Cottage)	Countess of Suffolk	6	0	9	400	1009	39.71	200
2.—STOUR. 33 sq. mi.								
D Mere (Charnage)	A. R. White, Esq.....	5	1	0	426	1070	42.11	209
D† Stourhead	Sir H. Hoare, Bart.	5	1	0	583	1095	43.11	186
D† Kilmington Rectory	Rev. H. G. Fox Strangways	5	1	6	710	1303	51.31	256
3.—EAST AVON. 554 sq. mi.								
D Donhead St. Mary (Charlton Ho.)	Dowager Lady Wynford...	5	0	7	515	1388	54.63	176
D Longford Castle	The Earl of Radnor	5	1	0	141	1003	39.49	172
D Tisbury (The Academy)	J. Bristol, Esq.	5	0	9	380	1343	52.88	175
D East Knoyle (Slades)	E. H. Miles, Esq.	5	1	0	590	1257	49.50	202

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			1916		
		in.	ft.	in.	feet.	mm.	inches.	
WILTSHIRE—(con.)								
3.—EAST AVON—(con.)								
D Fonthill House Gardens	Hugh Morrison, Esq.....	5	0	10	400	1273	50·13	206
D Salisbury.....	W. J. Goodwin, Esq., C.E.	5	2	2	153	962	37·87	185
D „ (Fowlers Hill)	Mrs. T. Awdry	5	1	0	225	954	37·58	163
D† „ (Brown Street)	Mrs. T. H. Baker	5	1	0	155	986	38·81	244
D „ (Atherton House)	Wilfred Fletcher, Esq....	5	0	11	250	945	37·22	219
D „ (Wilton House).....	Earl of Pembroke	8	4	0	180	1117	43·96	179
D Stratford-sub-Castle (Manor Ho.)	Miss F. Carpenter	5	0	9	165	874	34·41	171
Woodford (Court House)	Mrs. Chetwynd Stapylton	5	0	10	200	982	38·68	199
Wylve Rectory	Rev. E. M. Parken.....	5	...	...	...	971	38·23	...
D Codford St. Mary (Stockton Ho.)	G. Knowles, Esq.	5	1	0	260	1035	40·74	201
D† Maiden Bradley	The Duke of Somerset....	5	2	0	626	1232	48·51	214
D Sutton Veney (Greenhill).....	R. W. Pretor-Pinney, Esq.	5	1	0	390	1082	42·60	162
D† Warminster (Rye Hill)	A. E. Jefferys, Esq....	8	2	0	466	1115	43·88	197
D† „ (Bishopstrow)	P. Benton, Esq.....	5	0	10	360	1001	39·41	198
D Cholderton Rectory	Rev. A. E. Brisco Owen...	8	1	0	320	1041	40·97	217
Salisbury Plain (Chitterne House)	Joseph Hayward, Esq. ...	11	4	0	319	830	32·68	162
D† „ „ (Shrewton)	F. J. Wardale, Esq.	5	0	9	322	943	37·14	208
Collingbourne Kingston	late Baldwin Latham, Esq.	5	1	0	470	878	34·56	...
D Chirton Old Manor House.....	Mr. T. Selfe	5	3	0	374	875	34·44	200
D Pewsey (Wilcot)	W. R. Wilbraham, Esq....	5	0	6	415	893	35·14	207
D Bishops Cannings	Mrs. H. H. Mogg	5	1	0	446	897	35·31	200
4.—TEST. 77 sq. mi.								
Landford (Northlands)	Mrs. Wigram	5	1	10	167	940	37·01	180
D Winterslow (Roche Court)	Mr. C. J. Hawkins.....	5	0	10	600	1007	39·66	166
D Ludgershall (Conholt Park)...(R)	E. A. Wigan, Esq.	8	1	0	800	1163	45·77	164
5.—THAMES—Kennet. 169 sq. mi.								
D Grafton (Wexcombe)	K. A. MacAndrew, Esq....	5	1	0	570	1029	40·51	191
D Marlborough College.....	Meddows Taylor, Esq....	5	1	0	425	970	38·18	201
D „ (Mildenhall).....	Rev. Gordon Soames	5	1	0	456	881	34·67	176
D Aldbourne (The Warren)	Henry Brown, Esq.	5	1	0	550	976	38·43	197
6.—THAMES—Cole & c. 156 sq. mi.								
D Wroughton (Burderop Park) ...	A. Ashford, Esq.	5	0	9	570	871	34·29	193
Wanborough Vicarage	Rev. C. F. Burgess	5	0	10	450	805	31·68	...
D New Swindon	H. J. Southwell, Esq....	8	0	11	378	893	35·15	231
D Highworth (Hannington Hall)...	Mrs. Hussey-Freke	5	1	0	375	792	31·19	170
DORSETSHIRE. (Area, 988 sq. mi.)								
1.—PARRETT. 61 sq. mi.								
D Evershot (Melbury House)	Mr. R. Rintoul	5	1	6	500	1138	44·79	170
D Chedington Court	Sir Henry Peto, Bart.....	5	1	0	605	1153	45·38	191
Leigh Vicarage	Rev. T. L. Jenkins .....	...	1	0	250	1142	44·96	181
D Sherborne Castle	Mr. T. Turton	5	1	0	195	1147	45·17	225
„ (Castleton).....	Reading T. Grantham, Esq.	5	1	0	200	1110	43·69	...
D Nether Compton Rectory	Rev. Canon E. W. Goodden	5	0	8	160	1060	41·74	196
2.—AXE. 25 sq. mi.								
D Broadwindsor (Blackdown House)	Rev. H. A. Boys	5	0	9	515	1202	47·33	196
3.—FROME & C. 502 sq. mi.								
Portland Bill (New Lighthouse).	Meteorological Office	8	1	0	37	743	29·24	170

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

STATIONS.	AUTHORITIES	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above		Sea Level	1916		
		in.	ft.	in.		feet.	mm.	inches.
DORSETSHIRE—(con.)								
3.—FROME & C—(con.)								
†Portland (H.M. Naval Dépôt) ..	H. K. Chambers, Esq.	8	1	5	23	947	37.28	161
†Weymouth (Westham)	J. H. Bolam, Esq.	5	1	0	25	864	34.02	186
†" (Springfield)	Major J. H. C. Devenish..	5	1	3	90	864	34.02	192
†Chickerell (Montevideo)	Mrs. N. M. Richardson...	5	1	0	100	866	34.10	190
†East Fleet (Fleet House)	Mrs. C. E. A. George	5	1	2	40	834	32.83	...
†Swanage (Royal Victoria Hotel)	Miss Vincent	5	1	11	50	864	34.00	...
†Tyneham House	Mrs. W. H. Bond	8	1	0	250	1005	39.56	161
†East Lulworth Vicarage	Rev. W. D. Filliter	5	0	9	173	1010	39.75	174
†Creech Grange	J. W. G. Bond, Esq.	5	1	0	240	1117	43.98	158
†Abbotsbury (New Barn)	J. C. P. White, Esq.	5	1	6	111	984	38.72	196
†" Castle Gardens	Mr. H. Kempshall	8	1	0	100	959	37.76	...
†" (Market Street)	J. Ford White, Esq.	5	1	0	81	1010	39.76	188
†Upwey (Portland W. W., Friar Waddon)	G. A. Waite, Esq., C.E.	5	1	0	215	1014	39.91	156
†" (" " " Higher Well)	" " "	8	1	0	290	990	38.97	156
†Warmwell House	Lord Wynford	5	0	4	155	940	36.99	...
†Wareham (East Holme)	G. D. Bond, Esq.	5	1	0	24	1096	43.17	186
†Stoborough (King Barrow)	L. G. Pike, Esq.	5	0	9	14	1036	40.79	154
†Wareham (South Street)	S. W. Bennett, Esq.	5	2	6	18	1038	40.85	169
†" (Binnegar Hall)	Lt.-Col. P. Farrer	5	1	0	65	1052	41.42	192
†" (Trigon)	Mrs. L. Sturdy	8	1	4	60	990	38.98	187
†Dorchester (Kingscote)	E. A. Ffooks, Esq.	5	1	0	226	926	36.46	163
†" Water Works	H. D. Strange, Esq.	8	1	0	315	1069	42.10	192
†" (Wollaston House)...	Capt. J. E. Acland	5	1	0	200	1069	42.07	190
Branksome Park (Kingsfield) ...	Miss M. Rigden .....	...	...	...	...	926	36.45?	...
†Poole (Parkstone)	W. H. Symes, Esq.	5	1	3	160	972	38.28	191
†Branksome (Bourne Valley)	H. W. Woodall, Esq.	8	1	3	84	901	35.49	...
" (Alderney Reservoir)	" " "	8	1	3	213	838	33.00	164
†Broadstone (Lypiatt Cottage) ...	F. W. Beckford, Esq.	5	1	0	220	1079	42.47	216
" House	Mrs. Schuster	5	1	0	220	991	39.02	...
Lyne Regis	E. T. Stoward, Esq.	5	1	0	55	988	38.88	154
†" (Boat Close)	Henry Ellis, Esq.	5	1	6	498	1066	41.97	173
†" (Highcliff)	Miss G. Lister	5	1	3	330	962	37.86	163
†Charmouth (Hammond's Mead) ..	A. Barrow, Esq.	5	0	9	50	909	35.77?	...
†" (Luttrell House) ...	Miss Paine	5	1	0	100	1104	43.46	201
†Bridport (Westland)	H. Gordon, Esq., C.E.	5	1	0	110	1022	40.23	193
†Bradford Peverell House	Mrs. Middleton	6	1	1	381	1094	43.05	185
†Moreton (Oaker's Wood)	Miss Fetherstonhaugh ...	5	1	0	160	1049	41.30	162
†Tolpuddle	Rev. Harold R. Long	5	0	6	200	1004	39.51	190
Pydelton Vicarage	Rev. Arthur Helps	5	2	8	195	1103	43.44	...
†Bere Regis (Barrow Hill)	Mr. A. C. Lucas	5	1	0	120	1038	40.88	182
†" (Bloxworth House)...	F. G. A. Lane, Esq.	5	1	6	118	1100	43.32	185
†Toller Porcorum Vicarage	Rev. C. H. B. Woodd ...	8	0	10	400	1169	46.01	195
†Maiden Newton (Cattistock Lodge)	H. H. Palairret, Esq.	5	1	0	350	1280	50.39	211
†Cattistock (Bell Cottage)	C. E. Davies, Esq.	8	1	0	365	1252	49.29	197
†Beaminstor (Hamilton Lodge) ...	Fiennes Trotman, Esq.	5	1	0	210	1180	46.44	202
4.—STOUR. 388 sq. mi.								
Kinson (Eglinton)	W. C. Keevil, Esq.	5	0	6	44	1053	41.47	212
†Wimborne (Corfe Mullen W. W.)	G. V. Sparrow, Esq., C.E. ...	5	1	6	82	1065	41.94	199
†" (" " " Forest Hill)	E. Philip Belben, Esq.	8	2	0	300	1069	42.07	197
†Sturminster Marshall (Baillie Ho.)	Rev. J. Cross	5	1	0	88	992	39.07	185

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above		1916			
			Ground	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
DORSETSHIRE—(con.)								
4.—STOUR—(con.)								
Sturminster Marshall (Baillie Ho.)	Rev. J. Cross	...	...	...	88	989	38.93	...
Wimborne (Westfield)	Countess of Moray	5	...	...	...	907	35.72	...
D " (St. John's Hill)	E. H. Widnell, Esq.	5	1	0	146	1031	40.60	206
D " (Codford House)	G. H. Batterbury, Esq. M.D.	5	0	9	69	976	38.43	214
D Witchampton	Miss A. L. Homer	5	1	0	130	1039	40.91	178
D Blandford (Bryanstone Gardens)	Mr. J. Jaques	5	1	0	155	1246	49.04	167
D Turnworth	Col. Parry Okeden	5	1	0	473	1288	50.70	201
D Horton Vicarage	Rev. G. Wellington	5	1	0	133	1056	41.56	197
D Holwell (Westrow House)	W. Warry, Esq.	5	1	0	252	1087	42.81	183
D Wimborne St. Giles (St. Giles Ho.)	Earl of Shaftesbury	5	1	0	165	1038	40.87	190
D Gussage St. Michael Manor	Miss Ellen Good	5	1	3	201	1053	41.47	187
D Sturminster Newton (Riverside)	A. R. Hallett, Esq.	5	5	0	205	994	39.15	168
D Iwerne Minster House Gardens.	J. H. Ismay, Esq.	5	1	0	244	1156	45.50	206
Ashmore Rectory	Rev. A. J. Reed	8	1	3	700	1097	43.20	...
D Shaftesbury (Abbey House)	A. Macdonnell, Esq.	5	1	2	722	1022	40.25	197
D† Gillingham (Town Mills)	S. H. Stephens, Esq.	5	1	2	244	1135	44.67	202
D Bourton	Rev. H. A. Boys	...	...	...	...	1122	44.18	201
5.—EAST AVON. 12 sq. mi.								
SOUTH DEVON. (Area, 1707 sq. mi.)								
1.—PARRETT. 7 sq. mi.								
2.—TAMAR & C. 395 sq. mi.								
Plymouth (Boveysand Lodge)	H. Case, Esq.	5	1	6	75	998	39.27	177
D† " (The Hoe)	J. Paton, Esq., C.E.	8	1	0	116	1011	39.80	206
D " (Drake's Reservoir)	F. Howarth, Esq., C.E.	5	1	0	149	1072	42.19	194
D " (Hartley Reservoir)	"	5	1	0	321	1130	44.49	210
D " (Freedom Fields)	J. Paton, Esq., C.E.	8	1	0	208	1113	43.81	206
D Devonport (Rowdens Res.)	F. Howarth, Esq., C.E.	5	1	0	201	979	38.56	208
D Bickley (Roborough Reservoir)	"	5	1	0	548	1255	49.40	233
Lee Moor Clay Works	R. Martin, Esq.	8	1	0	900	1738	68.41	...
D Bere Alston (Rumleigh)	Sir A. W. Croft, K.C.I.E.	5	1	6	125	1150	45.27	240
D Sheepstor Vicarage	Rev. H. H. Breton	8	1	0	749	1794	70.63	237
"	M F. Howarth, Esq., C.E.	5	1	0	1024	1500	59.05	...
D " (Red Stone)	"	5	1	0	763	1610	63.40	237
D " (Burrator)	"	5	1	0	755	1737	68.37	236
D " (Head Weir)	"	5	1	0	720	1606	63.25	237
D Dousland Reservoir	"	5	1	0	721	1554	61.18	239
D Dartmoor (Deancombe Farm)	"	5	1	0	830	1657	65.24	220
D " (Lowery)	"	5	1	0	899	1506	59.30	231
D " (Leather Tor Farm)	"	5	1	0	910	1650	64.95	214
" (Siwards Cross)	M	5	1	0	1200	1591	62.63	...
" (Cramber Tor)	M	5	1	0	1435	1409	55.46	...
D Whitchurch (Ashbrook)	Rev. H. B. Grylls	5	1	0	400	1303	51.31	225
Tavistock (Langstone, Moortown)	Col. H. F. Coleridge	5	1	0	700	1467	57.76	217
D " (Public Library)	John Quick	8	20	0	283	1183	46.59	216
D " "	W. J. Monk, Esq.	5	1	0	375	1301	51.18	230
D Dartmoor (Leeden Tor)	M F. Howarth, Esq., C.E.	5	1	0	1270	1392	54.80	...
" (N. Hessary Tor) No. 1	"	5	1	0	1625	1551	61.05	...

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

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		Diam.	Height Above		1916			
			Ground.	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
SOUTH DEVON—(con.)								
2.—TAMAR & C.—(con.)								
Dartmoor (N. Hessary Tor) No. 2	F. Howarth, Esq., C.E....	5	1	0	1502	1714	67.46	...
Milton Abbot (Endsleigh).....	Mr. F. Yole	5	1	0	180	1307	51.47	...
D Lifton (Kelly House).....	Rev. Maitland Kelly.....	8	2	6	462	1177	46.33	217
D Coryton Manor	R. L. Newman, Esq.....	5	1	2	445	1130	44.47	188
D Polapit Tamar [Launceston] ...	R. C. Coode, Esq.	5	1	0	315	1065	41.92	216
3.—ERM & C. 217 sq. mi.								
D†Salcombe (Sandhills).....	W. H. Pike, Esq.	5	1	0	118	1047	41.23	196
D† „ (The Park)	Capt. J. Partridge	5	1	0	40	1091	42.97	193
†South Huish	W. Balkwill, Esq.....	5	5	6	68	1187	46.74	...
†Kingsbridge (Westcombe)	T. W. Latham, Esq.....	5	1	0	100	1164	45.83	...
D†East Allington (Fallapit Gardens)	W. H. Tucker, Esq.	5	1	0	305	1394	54.88	179
D†Dartmouth (Stoke Fleming).....	C. F. Selby, Esq.	5	0	9	356	1250	49.20	218
Ermington (Strode)	Capt. H. Gore Hawker ...	5	1	0	75	1227	48.30	187
D Ivybridge (Woodhaye).....	H. Alger, Esq.	5	1	0	300	1515	59.64	216
D South Brent (Blackadon Asylum)	H. Victor Prigg, Esq., C.E.	5	1	0	607	1338	52.66	234
„ „ (Glazebrook).....	Vere Cholmondeley, Esq.	5	1	0	400	1758	69.22	221
D „ „ (Great Aish).....	Miss Kingwell	5	1	0	500	1770	69.69	207
4.—DART. 197 sq. mi.								
D Paignton (Queen's Park)	A. J. Holman, Esq.....	8	1	0	11	1080	42.54	191
D „ (Torquay Road)	H. Le B. Gunner, Esq. ...	5	1	0	40	1109	43.67	204
D „ (Preston)	G. M. Rosling, Esq.	8	1	2	130	1102	43.38	192
Totnes (Rosabelle).....	Dr. H. R. Allingham.....	8	1	6	...	1350	53.13	166
D „ (Berry Pomeroy)	C. Barran, Esq.	5	1	0	185	1243	48.93	185
D „ (Staverton).....	J. A. Devenish, Esq.	5	0	11	50	1178	46.39	184
D „ (Broadhempston)	Charles Mole, Esq.....	5	1	0	135	1127	44.38	201
D Ipplepen Vicarage.....	Rev. R. D. Cooke	5	1	0	273	1183	46.56	198
D Buckfastleigh (Harewood)	J. S. Trelawny, Esq.....	5	1	0	230	1535	60.45	161
D Holne (Church Park Cottage) ...	L. W. Frost, Esq.....	5	1	6	620	1698	66.84	214
D Ashburton (West Street)	Wilfred J. O. Evans, Esq.	5	1	0	240	1439	56.66	197
D „ (Dolbear)	Mrs. W. W. Battiscombe	5	1	0	300	1322	52.06	186
D „ (Druid House).....	J. S. Amery, Esq.	5	1	0	584	1445	56.90	211
D „ (Leusdon Vicarage)...	Rev. A. Woolcombe.....	5	1	0	900	1619	63.75	198
D Princetown (Huccaby House) ...	Mrs. Wilson	5	0	11	900	1552	61.09	185
D „ (H.M. Prison).....	George Perry, Esq.	5	1	0	1359	2260	88.98	230
D „ (Two Bridges)	T. C. Bridges, Esq.	5	0	9	1170	2113	83.20	230
†Dartmoor (Cowsic Valley).....	F. Howarth, Esq., C.E....	8	1	6	1352	1833	72.15	...
† „ (Black Dunghill) No.5	„ „ „	8	1	0	1590	1341	52.80	...
† „ (Beardown Tor) No.3	„ „ „	8	1	0	1550	1334	52.50	...
† „ (White Tor) No.1	„ „ „	8	1	0	1640	1332	52.45	...
† „ (Devil's Tor)..... No.2	„ „ „	8	1	0	1785	1415	55.70	...
† „ (Cowsic Head) ... No.4	„ „ „	8	1	0	1580	1739	68.45	...
D Postbridge (Redgate)	H. J. Roberts, Esq.	5	1	0	1180	2159	85.01	246
5.—TEIGN. 209 sq. mi.								
†Torquay (Princess Gardens)	F. March, Esq.	5	1	0	12	1010	39.75	194
D† „ (Cary Green)	„ „	5	1	0	12	1054	41.50	195
„ (Merton Lodge)	Miss Brown	5	1	0	250	1005	39.55	175
D† „ (Kilmorie)..... (R)	Sir Thomas Bazley, Bart.	8	4	0	160	1049	41.29	173
D „ (Roby Hall)	Sir J. Edwards-Moss, Bt.	5	1	0	500	1126	44.32	196
D „ (Stoodley Knowle)	Col. C. R. Burn, M.P. ...	5	1	0	150	1034	40.69	156

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

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		Diam.	Height Above Ground		Sea Level	1916		
		in.	ft.	in.	feet.	mm.	inches.	
SOUTH DEVON—(con.)								
5.—TEIGN—(con.)								
D Newton Abbot (The Chestnuts) ..	E. D. Wylie, Esq.	5	0	6	100	1027	40.43	201
„ „ (Seale Hayne College)	Bernard N. Wales, Esq. ...	5	1	0	339	1014	39.93	...
Teignmouth (Woodlands)	G. Rossiter, Esq.	8	1	2	98	938	36.94	180
D „ (Den Gardens)	„ „ „	5	1	0	20	982	38.66	191
D „ (Landscape Res.) ...	„ „ „	8	1	0	136	1013	39.88	175
D „ (Hazledown Res.) ...	„ „ „	8	2	0	425	1006	39.62	173
„ (Shaldon)	„ „ „	5	1	0	213	1025	40.36	...
D „ (Bonnieliff)	Miss M. Horner	5	1	0	260	928	36.53	174
D „ (The Shrubbery) ...	E. A. Norton, Esq.	8	1	0	275	1010	39.77	208
„ (Benton)	W. C. Lake, Esq., M.D. ...	5	1	0	320	929	36.56	193
„ (Holcombe)	A. L. Tate, Esq.	5	0	4	90	994	39.15	...
D Dawlish (The Lawn)	S. F. C. Churchward, Esq. ...	5	1	0	18	974	38.36	164
„ (Thorns Reservoir)	„ „ „	5	1	0	550	1144	45.05	...
„ (Burrows Reservoir) ...	„ „ „	5	1	0	420	950	37.38	...
D Chudleigh (Ideford Rectory) ...	Rev. H. Bouchier Wrey ..	5	1	0	300	939	36.96	179
D Ilsington	W. J. J. H. Burnett, Esq. ...	5	1	0	650	1302	51.26	199
D Bovey Tracey (Blenheim House)	Mr. E. E. Underdown	5	1	0	350	1205	47.43	191
D Lustleigh (Rockmead)	Rev. W. A. Jones	5	1	0	300	1244	48.99	195
Manaton School	D. W. Horner, Esq.	5	1	0	900	1328	52.29	212
D Hennock Vicarage	Rev. A. H. Skipper	5	1	0	615	1055	41.52	174
Chudleigh (Trusham)	Rev. Offley H. Cary	5	0	6	322	1030	40.54	204
D Moretonhampstead (Bullaton) ...	S. C. Chapman, Esq., C.E. ...	8	1	0	928	1225	48.23	210
D „ (Mardon) ...	„ „ „	8	1	0	835	1210	47.64	212
North Bovey (Manor House) ...	Mr. G. Laurence	5	1	0	700	1522	59.91	222
D Christow (Kennick)	S. C. Chapman, Esq., C.E. ...	8	1	0	836	1194	47.00	211
D „ (Smithacott)	„ „ „	5	1	6	861	1207	47.53	205
D Moretonhampstead (Blackingstone)	„ „ „	8	1	0	1158	1311	51.63	207
D Christow (Laployd)	„ „ „	5	1	6	1041	1300	51.19	207
D Moretonhampstead Rectory	Rev. S. D. Dewey	5	1	0	600	1237	48.71	208
D Chagford (Thornworthy)	E. L. Hawke, Esq.	5	1	0	1180	1955	76.98	195
6.—EXE. 445 sq. mi.								
D Starcross (Cofton Vicarage)	Rev. C. F. Benthall	5	1	9	60	855	33.65	170
Exmouth (Douglas Avenue)	Mrs. Gillum	5	0	10	80	916	36.06	176
„ (Dagmar Road)	E. C. Thurgood, Esq. ...	5	1	6	60	920	36.23	...
D „ (Nidderdale)	Mrs. Herbert Stewart	5	1	0	51	837	32.96	182
„ (Manor Grounds)	S. Hutton, Esq., C.E.	5	1	0	13	946	37.24	174
„ (Filters, Salterton Rd.)	„ „ „	8	8	6	195	970	38.17	190
„ („ Capel Lane) ...	„ „ „	5	8	0	240	943	37.14	189
D Kenton	E. J. Pitt, Esq.	5	1	0	85	1030	40.55	188
D Aylesbeare (Rosamondford)	A. T. Loram, Esq.	5	0	10	220	922	36.28	153
D† Exeter (Franklyn, St. Thomas)	E. N. Snow, Esq.	5	0	8	65	1072	42.19	156
D† „ (Devon & Exeter Inst.) ...	J. E. Coombes, Esq.	5	13	7	155	966	38.02	186
D „ (The Close)	Rev. Canon D. McLaren ...	5	1	1	140	975	38.39	190
D† „ (Elmfield House)	W. B. Heberden, Esq., C.B. ...	5	1	0	100	961	37.85	180
D „ (Hele's School)	W. Littler, Esq.	8	6	4	160	970	38.20	201
† Broad Clyst (Brockhill)	W. T. Bayne, Esq. LL.D. ...	5	1	0	80	955	37.61	211
D Upton Pyne (The Parsonage) ...	Rev. A. Hillyard	5	1	0	214	1034	40.71	179
D† Brampford Speke Station	Mr. A. Tucker	5	1	0	79	962	37.88	176
D Crediton (Hookway)	A. F. Parbury, Esq.	5	1	0	150	1047	41.21	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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
SOUTH DEVON—(con.)								
6.—EXE—(con.)								
d Crediton (Trobridge House)	R. Stanley Clarke, Esq.	8	1	2	250	970	38·21	207
d Silverton (Killerton)	Mr. J. Wilson	5	1	0	161	1027	40·45	179
Crediton (Okefield)	Capt. Seymour F. Pope	5	1	0	325	1043	41·07	194
d Coplestone (Coplestone House) ..	Miss Pope	5	0	11	315	1101	43·35	216
d Cullompton	M. T. Foster, Esq.	5	1	0	202	1149	45·24	213
d Tiverton (St. Peter Street)	Miss Gill	5	6	0	245	1183	46·57	219
" (Hartnolls)	Maj.-Gen. F.A. Bowles, CB ..	5	1	6	226	1199	47·22	210
d Halberton	late Capt. G. Izat, R.N.	5	0	6	240	1046	41·20	178
d Uffculme (Bullmoor)	Miss M. E. Gowing	5	1	0	280	1144	45·04	237
Hemyock (Windlehurst)	M. E. Tedder, Esq.	5	1	0	750	1163	45·80	244
d Bampton (Huntsham Court) ..	Col. H. Acland Troyte	8	1	0	640	1261	49·66	198
" (Oakford Rectory)	Rev. F. G. Buller	5	1	0	650	1271	50·04	...
7.—AXE & C. 237 sq. mi.								
d Budleigh Salterton (Lindenwood)	Lt.-Col. J. H. Hamersley	5	1	0	130	938	36·91	164
" (Squabmoor)	S. Hutton, Esq., C.E.	5	1	0	267	993	39·09	193
d† East Budleigh (Bicton Gardens)	Mr. E. H. High	5	1	0	90	953	37·51	192
" (Common)	S. Hutton, Esq., C.E.	5	1	0	300	1004	39·54	...
d† Sidmouth (Sidmount)	Miss C. M. Radford	5	1	0	149	939	36·98	183
" (Winslade Cottage) ..	Miss G. Collins	5	1	0	186	938	36·94	182
" (Winslade Cottage) ..	Miss G. Collins	5	1	0	150	1039	40·91	...
Branscombe	<i>Devon & Exeter Gazette</i>	5	2	4	170	1027	40·42	197
d† Seaton	Mrs. Pattinson	5	0	10	25	956	37·65	189
d Rousdon [Lyme Regis]	Mr. C. Grover	5	1	0	516	964	37·94	182
Ware [Lyme Regis]	A. J. Woodroffe, Esq.	5	0	10	318	1032	40·62	188
d† Ottery St. Mary (West Hill) ..	B. Stansbury, Esq.	5	1	6	340	986	38·84	205
d† " (Broad Street) ..	H. D. Badcock, Esq.	5	4	0	170	1048	41·25	187
d† " (Manor House) ..	W. A. Willock, Esq.	5	1	2	200	1058	41·64	192
d Kilminster (Haddon Corner) ..	A. Hitchcock, Esq.	5	1	0	400	1105	43·49	203
" (Haddon Corner) ..	"	5	1	0	400	1101	43·35	...
Membury (Green Down)	James Lee, Esq.	5	1	0	400	1104	43·45	186
d Chardstock Vicarage	Rev. A. Lewis	5	0	8	317	1181	46·48	202
NORTH DEVON. (Area, 898 sq. mi.)								
1.—NORTH COAST STREAMS. 77 sq. mi.								
d† Woolacombe (Hotel Grounds) ..	Miss Chichester	5	1	0	60	896	35·28	211
d† Morthoe (Twitchen House)	Dr. G. B. Longstaff	8	1	0	430	1006	39·62	217
d† Ilfracombe (Reservoir)	O. M. Prouse, Esq., C.E.	5	1	0	395	1240	48·83	206
d† " (Bickleighscombe) ..	Mrs. Slade King	5	1	0	300	1148	45·19	220
d† " (Meteorological Station)	O. M. Prouse, Esq., C.E.	5	1	0	25	879	34·59	213
d Martinhoe Rectory	Rev. R. W. Oldham	5	2	3	808	1044	41·11	193
Lynton (Lee Abbey)	C. F. Bailey, Esq.	5	0	6	320	1000	39·35	...
d Lynmouth (Gwynallt)	A. L. Ford, Esq.	8	0	8	284	1171	46·10	210
d " (Rock House)	T. H. Mead-Briggs, Esq.	5	0	11	22	1073	42·26	219
2.—TAW. 442 sq. mi.								
d Chumleigh (Leigh House)	Mr. W. Gillies	5	1	0	350	1098	43·22	210
d Witheridge	H. J. Mansfield, Esq.	5	1	2	600	1165	45·85	179
Rackenford Manor	F. J. Coleridge Boles, Esq.	5	1	1	757	1280	50·41	199
d Warkleigh Rectory	Rev. J. H. Thompson	5	1	0	439	972	38·27	219

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
NORTH DEVON—(con.)								
2.—TAW—(con.)								
South Molton	F. Day, Esq.	5	1	0	450	1244	48·98	258
Filleigh (Castle Hill Gardens)...	The Countess Fortescue...	12	3	6	367	1154	45·42	220
Molland	S. J. Case, Esq.	5	1	9	674	1468	57·79	239
East Anstey (Rhyll Manor)	Mrs. Hancock	5	1	0	850	1384	54·47	204
Barnstaple (N. Devon Athenæum) ..	H. Greaves, Esq.	8	1	0	25	930	36·63	207
„ (Fort Hill)	Rev. F. Sterry	5	2	3	200	999	39·34	224
„ (Pilton)	Major G. F. Hibbert	5	1	0	83	971	38·22	224
Heanton Punchardon (Chivenor) ..	Maurice E. Yonge, Esq.	5	1	8	18	885	34·84	205
Braunton (Tyspane)	A. M. Norton, Esq.	5	1	0	95	1005	39·57	211
Arlington Court	No. 1 Miss Chichester	5	1	0	613	1431	56·35	221
„ „	No. 2 „ „	5	1	0	613	1466	57·72	221
Challacombe	O. M. Prouse, Esq., C.E.	5	1	2	815	1700	66·93	209
3.—TORRIDGE. 342 sq. mi.								
Okehampton (Oaklands)	Maj.-Gen. E. H. Holley	5	1	0	500	1321	52·00	186
Dolton (Hilliers)	A. Smythies, Esq.	5	1	3	380	1080	42·54	181
Beaford (Abbots Hill)	J. Stuckey, Esq.	5	5	0	380	989	38·93	188
Torrington (Enfield)	G. M. Doe, Esq.	5	1	0	336	996	39·22	215
Parkham (Melbury Moor)	late Baldwin Latham, Esq.	5	1	0	623	1364	53·72	245
„ („ Reservoir)	„ „ „	5	1	0	516	1413	55·64	243
Landcross (South Close)	Mrs. C. Hibbert	5	1	0	100	934	36·78	219
Bideford (Webbery)	Mrs. C. E. Boyd	5	1	10	355	939	36·96	199
„ Rectory	Rev. Preb. Newton Leeke	5	1	2	150	976	38·41	190
„ (Northam Road)	Mr. W. Littlejohns	5	0	6	20	960	37·78	172
„ (Slade Park)	J. C. T. Heriz-Smith, Esq.	5	1	6	188	913	35·96	191
„ (Horwood House)	Rev. J. Dene	5	1	0	288	859	33·82	211
Westward Ho! (Bellevue)	A. H. Boyd, Esq.	8	1	0	200	824	32·45	209
„ „ (Royal Golf Club) ..	The Secretary	5	1	6	10	819	32·23	...
Instow	Miss Lock	5	1	0	100	834	32·82	168
4.—WEST COAST STREAMS. 32 sq. mi.								
Hartland Abbey	Mr. G. Sleep	5	1	6	222	1003	39·49	180
Clovelly Court	Mr. H. Tuke	5	0	11	360	1293	50·91	199
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	947	37·27	215
Camborne (Boswyn Reservoir)...	W. F. Bickford, Esq.	8	2	0	511	1146	45·13	236
Redruth (Trewirgie)	A. P. Jenkin, Esq.	5	1	0	399	1192	46·94	231
„ (Tehidy Park)	Mr. F. J. Clark	5	1	5	187	1050	41·33	202
† St. Agnes	W. Whitworth, Esq.	5	3	8	318	907	35·70	229
Newquay (Tresillian House) ..	Lt.-Col. E. Gully-Bennet	5	2	0	290	1073	42·25	202
„ (Mount Wise) ... No. 1	Miss G. Kennick	5	1	0	190	947	37·30	240
Bodmin (Polgwin)	H. D. Foster, Esq.	5	1	0	400	1192	46·93	210
„ (Castle Hill House)	W. G. Wales, Esq., C.E.	5	1	0	484	1308	51·51	228
Helland (Tredethy)	Mrs. Hext	5	1	6	...	1169	46·03	208
Camelford (Stannon Clay Works) ..	N. Cornwall China Clay Co.	8	1	0	800	1360	53·54	207
Tintagel (Trenowan House)	Priestley Hogbin, Esq.	5	1	0	350	970	38·21	214
Bude (Shalder Hill)	F. J. Worden, Esq.	5	1	0	51	872	34·31	213
„ (Bramble Hill)	J. E. Barclay Bevan, Esq.	5	0	8	100	874	34·39	221

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
CORNWALL—(con.)								
1.—CAMEL & N.W. COAST STREAMS—(con.)								
D Morwenstow Vicarage	AMS—(con.) Rev. H. Lynne Jones.....	5	0	10	331	968	38.11	231
D „ (Torracombe Manor)	W. W. Martyn, Esq.....	5	1	0	450	959	37.76	205
2.—FOWEY & S.E. COAST STREAMS. 620 sq. mi.								
Lizard	M A. P. Jenkin, Esq.....	5	1	0	244	961	37.83	...
D Cadgwith (Coastguard Houses) ..	Miss H. F. Shepherd.....	5	1	0	180	988	38.89	206
Mullion (Polurrian Hotel)	Mr. R. Thomas	5	1	0	230	924	36.39	...
St. Keverne (Lanarth)	P. D. Williams, Esq.	5	0	10	290	1229	48.37	241
D „ „ (Rosuick Cottage) ..	G. W. Jevons, Esq.	5	1	0	250	1255	49.40	243
Helston (Tenderah)	J. Walker Tyacke, Esq....	5	1	0	220	1229	48.39	214
D Penzance (Trewidden)	Mr. J. H. Murley	5	0	5	...	1378	54.26	232
D† „ (Morrab Garden)	C. H. Benn, Esq.	5	1	0	55	1209	47.61	246
„ (Rosehill)	(R) David Howell, Esq.	10	3	0	212	861	33.88	222
† „ (Tregwainton House) ..	T. Robins Bolitho, Esq....	10	1	0	400	1343	52.87	192
D „ (County School)	Lance Webb, Esq.....	8	0	6	155	1200	47.25	242
Marazion	T. Field Michell, Esq....	5	2	0	30	1139	44.85	211
„ (Porth-en-alls)	F. F. Page, Esq.	5	1	0	...	1039	40.92	171
Falmouth (New Observatory) (R)	Meteorological Office	11	2	0	169	1228	48.34	214
D „ „ „ „ „ „ „ „ „ „	„ „ „ „ „ „ „ „ „ „	8	1	0	168	1204	47.42	222
D Penryn (Ashfield)	J. G. Stephens, Esq.....	5	1	1	95	1154	45.43	224
Devoran (Council School)	W. R. Cock, Esq. ....	...	...	...	...	864	34.02	...
D Redruth (Pencoy's Vicarage) ..	Rev. L. C. Carpenter.....	5	1	0	701	1377	54.20	241
D† „ (Trevince)	E. B. Beauchamp, Esq....	8	1	0	240	1289	50.75	228
D Truro (Killiow)	Miss Daubuz	5	1	0	230	1209	47.59	233
D „ (Tregolls)	Miss C. L. Rashleigh.....	5	1	0	65	1156	45.51	228
† „ (Pencalenick)	H. H. Williams, Esq.	5	0	7	80	1101	43.34	...
D† „ W.W. (Lower Tregurrow) ..	W. J. Lean, Esq.	5	1	0	71	1185	46.65	226
D Talland (Polperro)	H. E. Butler, Esq.	5	1	0	120	1171	46.09	227
D Fowey	C. T. Wellington, Esq....	5	1	0	51	927	36.49	196
D† „ (Torfrey)	Mrs. Treffrey	5	0	6	250	1222	48.11	179
D† St. Austell (Trevarna)	W. M. Coode, Esq.	5	1	0	300	1272	50.09	222
Looe (Bray)	Mrs. G. Sneyd	5	1	0	530	1172	46.13	245
D† Lostwithiel (Lanwithan)	Miss Foster	5	1	0	80	1329	52.31	217
D Roche (Glencoe)	Miss Browne	5	0	9	602	1118	44.00	233
D† Liskeard (Trevillis)	L. C. Foster, Esq.....	5	1	0	320	1290	50.78	227
3.—TAMAR & C. 279 sq. mi.								
D Empacombe [Devonport]	J. Sandercock, Esq.	5	1	0	20	1060	41.74	210
Cremyll [Devonport]	Cornwall County Council	5	10	0	25	969	38.15	...
D St. Germans (Fairfield)	Dr. J. Wallis Gill	5	2	0	170	1199	47.19	193
D Torpoint (Merifield Vicarage) ..	Rev. Leonard A. Williams	5	0	8	160	1144	45.06	225
Saltash (Pentillie Castle)	Cornwall County Council	5	2	4	150	1497	58.93	...
St. Mellion Rectory	Rev. F. T. Wintle	5	1	0	400	1194	46.99	220
D Callington (Pencrebar)	Miss Horndon	5	1	9	450	1218	47.94	212
D Albaston	N. R. Rosekilly, Esq.....	5	4	0	600	1106	43.55	191
D Launceston (Landue)	Miss S. E. Tregoning.....	5	0	11	225	1141	44.91	224
D „ (Hexworthy)	R. B. Rogers, Esq.	5	1	0	270	1060	41.72	207
D „ „ „ „ „ „ „ „ „ „	„ „ „ „ „ „ „ „ „ „	5	1	6	270	1014	39.91	197
D Altarnon Sanctuary	Rev. A. H. Malan.....	5	1	0	620	1487	58.56	237
D Launceston (Old Tree House) ..	Mrs. Saunders	8	1	6	600	1079	42.47	168
Egloskerry (Tregeare)	E. G. B. Lethbridge, Esq.	5	1	0	575	911	35.85	...

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

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		Diam.	Height Above Ground.		Sea Level	1916		
		in.	ft.	in.	feet.	mm.	inches.	
CORNWALL—(con.)								
3.—TAMAR & C—(con.)								
North Tamerton (Davies).....	Mr. W. Bray	5	4	0	390	869	34.22	185
4.—INSULAR—Isles of Scilly.								
St. Mary's	Meteorological Office.....	8	1	6	131	984	38.72	244
Tresco Abbey.....	T. A. Dorrien Smith, Esq.	11	3	0	40	1011	39.79	246
SOMERSETSHIRE. (Area, 1630 sq. mi.)								
1.—LOWER AVON. 300 sq. mi								
Wanstrow (The Manor Cottage)	P. E. B. Warburton, Esq.	5	1	0	465	1212	47.73	...
D Cranmore Hall	Rev. H. A. Boys.....	8	1	9	600	1432	56.38	215
Shepton Mallet (Pondsmead, Oakhill)	Mr. J. Fletcher	8	1	0	710	1439	56.66	206
D " " (Hillylands, ")	Mr. E. Stock	5	0	10	659	1492	58.74	214
D† Frome W.W. (Egford)	L. Slaughter, Esq.....	8	2	0	270	1091	42.96	227
D† " (Selwood School)	Miss E. M. Coombs	5	0	9	320	1021	40.22	206
Mells Park.....(R)	late Gilbert T. Bates, Esq.	...	2	0	420	1127	44.38	...
D " (Wadbury House)	Mrs. Sykes	5	1	0	394	1165	45.85	206
D " (Selwood)	Miss E. G. Horner.....	5	1	0	344	1082	42.59	216
D Binegar (Gurneyslade)	Rev. G. B. Hicks	5	1	0	588	1293	50.92	203
D Stratton-on-the-Fosse (Downside Abbey)	" " "	8	1	0	600	1206	47.50	194
Frome (Orchardleigh)	Rev. Canon Duckworth...	8	0	10	303	1014	39.93	203
D " (Beckington)	E. M. Nelson, Esq.	8	1	3	270	958	37.71	198
" " (The Cedars)	F. E. Rogers, Esq.....	5	1	8	300	1006	39.61	193
D Chewton Mendip (The Priory)...	The Earl Waldegrave....	5	1	0	550	1414	55.68	213
D " " (Waldegrave Ho.)	J. Hollis, Esq.	5	1	1	440	1325	52.18	210
Ston Easton	late H. E. Hippisley, Esq.	5	3	0	480	1285	50.60	215
D Midsomer Norton (Island House)	Dr. G. S. Pollard	5	1	6	300	1166	45.91	199
D " " (Dymboro)	Dr. A. Bulleid	5	1	0	357	1185	46.67	180
Radstock	G. H. Gibson, Esq....	8	8	0	330	1082	42.62	...
D E. Harptree (Sherborne Res., Litton)	J. A. McPherson, Esq., C.E.	5	1	0	338	1326	52.20	195
D " " (Harptree Court)	Mr. F. Curtis.....	5	1	0	346	1164	45.83	156
" " " (Hill)	J. A. McPherson, Esq., C.E.	8	1	0	784	1357	53.41	...
D Temple Cloud.....	Dr. Theodore Martin.....	5	1	0	340	1146	45.11	203
D Pensford (Sutton Court)	Lord Strachie	8	1	0	280	1167	45.95	210
D Dunkerton Rectory	Rev. F. C. Newbery	5	1	0	300	1083	42.64	199
D Bath (Crossways, Monkton Combe)	M. J. Lipscomb, Esq.....	5	1	0	180	1036	40.79	153
D " (Combe Down)	Miss Scriven	5	5	0	500	1076	42.37	204
Pensford (Houndstreet House)...	H. Leyborne Popham, Esq.	5	0	9	400	1055	41.52	...
Chew Magna	J. A. McPherson, Esq., C.E.	5	1	4	180	1190	46.86	191
D Pensford (Publow School House)	A. Hayes, Esq.	5	1	0	230	1045	41.15	184
D Bath (Claverton Manor)	E. A. Whittuck, Esq.	5	1	0	238	1030	40.56	173
D† " (Henrietta Park)	Dr. W. H. Symons	5	1	0	67	931	36.66	181
D " (Statutory Hospital).....	" " "	5	1	0	520	998	39.30	165
D " (Somerset Place)	Miss L. B. Lewis Lloyd...	5	0	10	350	991	39.01	226
D " (Charlcombe).....	J. Dent Young, Esq., C.E....	8	2	0	325	1025	40.37	200
D Saltford House	Col. W. V. Rolleston.....	8	0	8	100	1017	40.03	193
D Bathaston Reservoir	J. Dent Young Esq., C.E.	6	2	0	248	1018	40.10	204
Barrow Gurney Reservoir	J. A. McPherson, Esq., C.E.	5	1	6	300	1159	45.62	208
D Keynsham (West View Road)...	S. B. Froude, Esq.....	5	1	0	102	1045	41.15	161
D Long Ashton (Agric. Station) ...	E. P. West, Esq.	8	0	9	165	1116	43.93	201
D " " (Estate Office).....	H. B. Napier, Esq.	8	1	0	134	1206	47.47	180

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		1916			
		in.	ft.	in.	feet.	mm.	inches.	
SOMERSETSHIRE—(con.)								
1.—LOWER AVON—(con.)								
† Failand House	Miss Agnes Fry	5	1	0	385	1170	46·06	214
Portishead (Woodside Cottage)...	E. Harvey, Esq.	5	1	2	150	982	38·68	154
2.—YEO, AXE & BRUE. 405 sq. mi.								
Castle Cary (Alford House)	Admiral P. F. Tillard.....	5	1	6	98	950	37·39	194
Somerton (Butleigh Court)	R. Neville Grenville, Esq.	8	1	2	95	970	38·17	180
† Bruton (King's School)	W. C. Locke, Esq.	5	1	2	200	1185	46·64	211
Ditcheat	Rev. H. A. Boys.....	...	...	...	200	964	37·96?	...
Street (Overleigh House).....	J. B. Clark, Esq.	5	0	8	100	922	36·31	188
„ (Hind Hayes).....	Joseph Clark, Esq.	5	1	5	78	914	35·99	190
„ (Millfield)	W. S. Clark, Esq.	8	1	0	100	925	36·40	197
Glastonbury (Wyrall)	J. Morland, Esq.	5	0	8	110	832	32·74	191
Shepton Mallet (Pilton)	Rev. H. A. Boys.....	5	1	3	354	1137	44·78	207
† „ „ (Charlton)	C. E. Burnell, Esq.	5	1	0	481	1274	50·14	212
† „ „ (Grammar School)	William Aldridge, Esq.	5	1	0	475	1261	49·65	221
„ „ (Sewage Farm)	W. Reader, Esq.	5	0	8	310	1223	48·15	210
Wells (Dinder Cottage).....	Miss I. L. Joseph	5	1	0	150	1204	47·42	231
„ (Somerset & Bath Asylum)	J. E. P. Shera, Esq., M.D.	5	1	0	300	888	34·98	218
† „ (Wookey Hole Paper Mills)	W. S. Hodgkinson & Co.	5	1	4	180	996	39·23	...
Burnham (Dunstan Ho., Chalbury)	H. A. Smith Spark, Esq.	5	1	0	20	929	36·57	195
„	W. H. Chowins, Esq., C.E.	8	0	9	24	847	33·33	186
„ (Brent Knoll).....	Miss FitzGerald.....	5	2	0	26	962	37·87	199
Compton Martin.....	J. A. McPherson, Esq., C.E.	8	1	0	276	1314	51·72	...
Ubley (Rookery Farm).....	„ „ „	8	1	0	525	1412	55·61	...
Blagdon (Nordrach-on-Mendip)	W. R. Thurnam, Esq., M.D.	5	0	4	862	1511	59·48	219
Winscombe (The Down)	J. Grubb, Esq.	5	1	0	295	1112	43·77	218
Banwell (Eversley)	Kenneth Anderson, Esq.	5	1	6	50	1055	41·55	194
Blagdon Hill	J. A. McPherson, Esq., C.E.	8	1	0	550	1221	48·07	...
„ (Pumping Station).....	„ „ „	8	0	8	112	1172	46·15	202
„ (Coombe Lodge).....	„ „ „	8	1	0	388	1176	46·28	...
Ubley (Pixey Hole)	„ „ „	8	1	0	300	1073	42·23	...
Nempnett (West Town)	„ „ „	8	1	0	263	1146	45·10	...
Burrington (Burrington Link)	„ „ „	8	1	0	335	1167	45·96	...
„ (Langford)	Miss M. B. Smith	5	1	8	40	1119	44·05	211
† Weston-spr.-Mare (Leycroft Ho.)	C. Brown, Esq.	8	1	0	15	962	37·87	182
† „ „ „ (Clarence Park)	W. H. Allen, Esq.	5	1	2	28	985	38·79	180
„ „ „ (Kewstoke)	H. Ruddie, Esq.	5	1	0	40	1000	39·39	...
Butcombe (Cholwell).....	J. A. McPherson, Esq., C.E.	8	1	0	370	1203	47·36	...
Wrington (The Cottage)	H. C. Bristowe, Esq., M.D.	5	6	0	100	1130	44·48	187
„ (The Rectory)	Rev. G. M. Ashdown.....	5	5	0	68	1176	46·32	196
Yatton (Chelvey)	J. A. McPherson, Esq., C.E.	8	0	8	60	1118	44·00	184
Flax Bourton (Backwell Hill Ho.)	W. Garnett, Esq.	8	1	10	490	1206	47·48	191
„ „ (The Grange)	C. Onslow Master, Esq.	5	1	0	180	1012	39·86	172
† Clevedon W. W. (Old Street)	J. Harger Pye, Esq.	5	1	10	28	996	39·20	185
† „ „ (Tickenham Rd.)	„ „ „	5	1	6	70	1005	39·57	213
† „ „ (Bowling Green)	Major A. B. Trestrail	5	0	11	126	1046	41·18	190
Wraxall (Boys' School).....	Ebenezer Brown, Esq.	5	1	2	...	1068	42·04	206
„ Rectory	Mrs. Vaughan	8	3	0	100	1027	40·44	178
3.—PARRETT. 568 sq. mi.								
Crewkerne (The Reservoir)	E. H. Munford, Esq.	8	1	0	426	1078	42·42	196

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ≥ 0.1 in. or more
		Diam. in.	Height Above Ground. SeaLevel			1916		
			ft.	in.	feet.	mm.	inches.	
SOMERSETSHIRE—(con.)								
3.—PARRETT—(con.)								
D Crewkerne (Bincombe House) ...	Miss Sparks	5	1	2	294	1217	47.93	203
D „ (Merefield House) ...	J. Tompsett, Esq.	8	1	1	231	1166	45.90	190
Coker Court Gardens	Mr. T. H. Gilham	8	1	0	250	1104	43.46	...
D West Coker	G. F. Deedes, Esq.	5	1	6	265	986	38.83	195
D Ilminster (Laurel Bank)	W. Beckwith, Esq.	5	1	0	180	1013	39.87	187
D „ (Whitelackington Ho.)	S. Creed, Esq.	5	3	0	200	1038	40.86	195
D „ (Dillington Park)...(R)	Mr. W. Goldthorpe	8	3	0	161	1037	40.81	179
D Yeovil (Gas Works)	E. Howell, Esq.	5	22	0	122	966	38.01	187
D „ (Pen Mill Sewage Works)	Dr. A. E. Remmett Weaver	5	1	0	102	1046	41.16	218
D Wellington (Old Way House) ...	T. Fox, Esq.	5	1	1	300	1018	40.08	210
D Stoke-under-Ham	Miss Gillett	8	1	0	80	1006	39.62	167
D Tintinhull (Manor House).....	Rev. Dr. S. J. M. Price...	5	0	10	145	925	36.40	170
D Angersleigh (Blagdon Reservoir)	H. T. Coles, Esq.	8	1	6	590	1139	44.84	157
D „ (Leigh Hill Reservoir)	„ „ „	8	1	6	525	1120	44.11	157
D „ („ Court)	A. Eastwood, Esq.	8	1	0	360	1083	42.65	198
D Langford Budville (Ritherdens)	Miss Rodd	5	0	10	380	1028	40.46	195
D Milverton (Spring Grove).....	C. Roberts Gawen, Esq.	5	0	8	500	1153	45.39	214
D Taunton (The Park)	Dr. H. J. Alford.....	5	1	0	70	943	37.11	206
D Wiveliscombe (Culverhead)	T. R. Marsh, Esq.	5	1	0	450	1172	46.14	194
D Langport (The Grange).....	late Dr. H. Markant Page	5	1	0	50	958	37.70	234
D „ (Huish Episcopi)	Miss A. M. Kelway	8	1	1	30	905	35.64	194
D Milverton (The Mount, Halse)...	Miss S. C. Smith	5	1	2	254	1024	40.33	220
D Wincanton (Maperton Ho. Gdns.)	Mr. L. G. Read	5	1	3	...	1193	46.96	225
D† North Cadbury Rectory	Rev. H. A. Boys	8	1	3	256	1061	41.78	215
D Somerton (Kingweston)	Rev. G. de Y. Aldridge...	5	2	6	220	1089	42.88	211
Cothelstone House	C. E. J. Esdaile, Esq.	5	1	0	430	1098	43.24	192
D North Petherton (Shovell)	A. M. Wilson, Esq.	8	1	0	206	920	36.22	181
D „ „ (The Old Rectory)	E. Constable Curtis, Esq.	8	0	6	136	1068	42.05	192
D Bridgwater (Blake Gardens) ...	F. Parr, Esq., C.E.	5	3	1	27	910	35.82	181
D „ (Ashford)	„ „ „	5	1	5	102	995	39.19	195
D „ (Northfield)	H. C. Salmon, Esq.	5	4	10	50	918	36.15	187
D Cannington (Brymore)	H. H. P. Bouverie, Esq.	5	1	6	65	881	34.68	185
4.—NORTH COAST STREAMS.								
158 sq. mi.								
D Williton (Aller Farm)	T. Hosegood, Esq.	5	2	6	175	1032	40.61	178
D „ (Capton)	Rev. H. H. Tripp	5	1	0	300	1024	40.30	175
Holford (Dytche School)	J. E. Overend, Esq.	5	1	0	260	1017	40.05	183
D Quantockshead (St. Audries) ...	Mr. F. S. Hayne	8	1	0	260	1016	39.98	157
D Dunster (The Hall)	F. E. Prothero, Esq.	5	1	5	120	1008	39.70	179
„ (The Schools)	<i>West Somerset Free Press</i>	...	...	...	...	990	38.96	174
D† Minehead (Mariansleigh)	T. F. Twist, Esq.	5	1	0	45	931	36.66	173
D† „ (Clanville)	Sir R. Shafto Adair, Bt. ...	5	1	0	105	884	34.82	185
Porlock (Lynch Mead, Allerford)	J. Dyke Acland, Esq.	5	1	3	100	1010	39.75	185
5.—EXE. 122 sq. mi.								
D Dulverton (Exebridge Fishery)...	T. F. Tracy, Esq.	5	1	0	410	1323	52.09	202
D Brushford Rectory	Rev. B. J. du Boe	5	1	0	450	1292	50.88	207
D „ Nurseries	Mr. G. Ruff	5	1	2	400	1352	53.22	227
D Hawkrigde (Liscombe)	Mr. E. W. Darby	5	3	6	980	1667	65.62	237
D Winsford School	W. Dicker, Esq.	5	1	2	685	1595	62.78	213
D Cutcombe (Wheddon Cross)	H. H. P. Bouverie, Esq.	5	1	2	945	1428	56.80	208

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
SOMERSETSHIRE—(con.)								
5.—EXE—(con.)								
Exford (North Ley)	F. G. Heal, Esq.....	5	5	0	1000	1688	66·44	...
6.—AXE. 42 sq. mi.								
D Chard (Tatworth Vicarage)	Rev. H. Stuart King.....	5	1	3	347	1181	46·50	184
D Cricket St. Thomas (Cricket Ho.)	Mr. H. M. Harvey.....	5	1	0	444	1268	49·94	198
D Otterhead	W. Black, Esq.	9	4	0	700	1166	45·89	198
7.—STOUR. 35 sq. mi.								
D Temple Combe Rectory	Rev. J. C. Fox	5	0	6	215	1222	48·10	210
D „ „ (Cheriton House)	Rev. H. A. Boys .....	...	...	...	...	1138	44·82	170
D Wincanton (Roundhill Grange)	General C. H. P. Ducat... ..	5	1	9	380	1093	43·02	202
Pen Selwood Rectory.....	Rev. Newton Parsons.....	5	0	10	680	1202	47·31	160

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	1000	39·37	191
D Pen Moel ["]	W. R. Price, Esq.	5	1	0	240	1109	43·66	201
Forest of Dean (Mailscoth Lodge)	C. O. Hanson, Esq., per M.O.	8	1	0	630	911	35·88	186
" " (Ruardean Hill Lo.)	" " " "	8	1	0	932	1006	39·56	195
D Lydbrook (Viaduct House)	G. S. Damsell, Esq.	5	1	0	95	884	34·81	206
2.—SEVERN—Right Bank Tributaries. 176 sq. mi.								
Sedbury Park [Chepstow]	Col. P. S. Marling, v.c., C.B.	8	1	0	175	936	36·83	160
D Lydney (Clanna)	Captain W. B. Marling	5	1	0	260	1039	40·92	203
Forest of Dean (Whitemead Park)	C. O. Hanson, Esq., per M.O.	8	1	0	200	946	37·26	177
" " " (Blakeney Hill Lo.)	" " " "	8	1	0	500	821	32·33	183
" " " (Worcester Lodge)	" " " "	8	0	11	712	852	33·52	180
" " " (Edgehills Lodge)	" " " "	8	1	0	914	864	34·08	177
D Cinderford (Belle Vue Road)	Dr. J. N. Beadles	5	1	1	780	999	39·35	182
D Westbury-on-Severn (Chaxhill)	Mrs. Grant	5	3	0	122	752	29·60	166
Mitcheldean (Blaisdon)	Colin MacIver, Esq.	5	1	6	117	813	32·02	...
D Tewkesbury (Forthampton Court)	Mr. H. French	5	1	0	48	733	28·86	156
D " (Upper Lode)	E. J. Bradley, Esq.	5	1	0	41	650	25·58	184
D Bromsberrow Pumping Station	W. Osborne Thorp, Esq. C.E.	5	1	0	181	684	26·94	171
3.—SEVERN—Left Bank Tributaries. 372 sq. mi.								
D Wickwar	F. G. Ansell, Esq.	5	1	0	260	976	38·42	165
Thornbury (Thornbury House)	H. V. Gillett, Esq.	5	2	1	125	943	37·14	...
Tortworth Court	The Earl of Ducie	8	1	0	264	1032	40·61	190
" School	Miss K. E. Smith	5	2	0	264	1025	40·37	...
" (Marsten)	G. W. Blanchard, Esq.	5	0	9	264	1021	40·19	190
Dursley (Woodmancote)	E. Fryer Smith, Esq. per M.O.	5	1	0	257	994	39·13	...
D Avening House	Lady Eleanor Byng	8	1	3	350	1044	41·11	182
D Berkeley Castle Gardens	Mr. S. Wathen	5	1	6	62	973	38·32	159
D " (Sharpness Docks)	F. A. Jones, Esq., C.E.	5	3	6	50	906	35·67	185
Minchinhampton (Rowan Cottage)	E. Metcalfe Day, Esq.	5	1	0	630	1024	40·30	193
D " (Camp Field)	Piers F. Legh, Esq.	5	1	6	650	1020	40·17	178
D Stroud (Stanley Park)	Sir W. H. Marling, Bart.	8	1	0	365	976	38·44	170
D " (Field Place)	A. W. Stanton, Esq.	5	1	0	226	883	34·78	196

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ≥ 1 in. or more
		Diam.	Height Above Ground. Sea Level			1916		
		in.	ft.	in.	feet.	mm.	inches.	
GLOUCESTERSHIRE—(con.)								
3.—SEVERN—Left Bank Tributaries—(con.)								
D Stonehouse (Wycliffe College)...	W. A. Sibly, Esq.	5	1	0	130	888	34.95	177
„ (Parklands) No. 1 (R) ..	W. Grey Robinson, Esq.	8	2	6	103	816	32.13	191
„ („) ... No. 2 „ „ „ „	„ „ „ „	5	2	6	103	827	32.55	185
Stroud (Park Farm, Lypiatt) ...	E. Armitage, Esq.	5	0	6	720	997	39.25	...
D Whitminster (Junction Lane)...	F. A. Jones, Esq., C.E.	5	1	0	32	922	36.28	212
Haresfield Court	R. I. Tidswell, Esq.	5	1	0	100	979	38.53	222
D Harescombe Grange	Stamford Hutton, Esq.	5	1	0	557	921	36.27	201
Hardwicke (Stanley House).....	Mr. H. C. Prinsep	8	1	0	30	816	32.11	...
Quedgeley House	Col. T. Curtis Hayward ..	5	1	0	65	838	32.98	175
D Witcombe Reservoir	R. Read, Esq., C.E.	8	3	0	297	915	36.02	172
D Gloucester (The Park)	G. Embrey, Esq.	8	1	3	56	808	31.82	205
„ (Denmark Road).....	A. J. Stephens, Esq.	5	1	0	80	740	29.13	...
„ („ „)	Harley Butt, Esq.	5	1	5	79	739	29.08	200
D „ (Barnwood Vicarage) ..	Rev. F. H. Fowler	5	1	0	80	898	35.35	203
D „ (Llanthony Lock) ..	E. J. Bradley, Esq.	5	1	2	39	777	30.60	185
D „ (Maisemore Lock) ...	„ „ „ „	5	1	1	39	733	28.85	184
D Churchdown (Barrow Hill)	Mrs. J. H. Jones	5	1	0	225	820	32.28	197
D Dowdeswell Reservoir	J. S. Pickering, Esq., C.E. ..	5	1	3	357	877	34.53	175
Cheltenham (Thirlestane Hall (R))	J. Player, Esq.	8	2	6	240	739	29.11	190
D† Charlton Kings (The Grange) ...	Miss E. M. Heberden	5	0	9	300	861	33.90	186
D Cheltenham (Hewletts Reservoir)	J. S. Pickering, Esq., C.E. ..	8	1	6	419	840	33.06	192
D† „ (Sandford Mead) ...	„ „ „ „	5	2	6	210	833	32.79	181
† „ (Kemerton Lodge)...	Rev. Percy Burd	5	1	0	211	840	33.08	212
† „ (Elmfield)	Major F. Fawkes	5	1	2	220	781	30.75	178
„ (High Street).....	A. C. Saxby, Esq., per M.O. ..	5	1	0	214	724	28.51	194
D „ (Oxford Lawn)	Miss G. Jones	5	1	4	230	783	30.83	189
„ (Prestbury)	late J. W. Guy, Esq.	5	0	10	258	891	35.07	192
D „ (Brookville, Swindon) ..	J. C. M. Stanton, Esq.	8	1	2	137	766	30.16	191
D Tewkesbury Pumping Station ...	J. S. Pickering, Esq.	5	0	9	47	667	26.26	173
Beckford Hall	Capt. H. A. Case	1	0		130	741	29.16	...
4.—SEVERN—Upper Avon. 99 sq. mi.								
D Winchcombe	Dr. J. Halliwell	5	1	2	295	883	34.77	207
D Childswyckham Vicarage.....	Rev. J. E. Thompson	5	1	9	180	721	28.39	199
D† Chipping Campden (Hidcote) ...	Major W. Wright	5	1	0	525	736	28.99	176
D† Mickleton (Bank House)	M. J. Salter, Esq.	5	1	0	233	743	29.24	196
5.—LOWER AVON & C. 198 sq. mi.								
D Monkswood Reservoir [Bath] ...	J. Dent Young Esq., C.E. ..	5	2	0	365	1006	39.62	210
D Bristol Docks (Underfall Yard) ..	Engineer, Bristol Docks ..	8	19	6	45	894	35.18	195
„ (Telephone Avenue)	J. A. McPherson, Esq., C.E. ..	5	50	0	80	1010	39.78	188
Clifton (Oakfield Road).....	„ „ „ „	5	1	0	200	1086	42.74	193
D „ (Harley Place)	Miss Hooper	5	1	5	260	1130	44.49	216
„ (Pembroke Road)	Miss A. M. Sturge	8	0	10	215	1122	44.19	...
D „ College	D. Rintoul, Esq.	8	1	2	230	1090	42.93	185
D „ (Stoke Bishop)	H. L. P. Lowe, Esq.	8	1	3	230	1108	43.61	185
D Filton	F. W. Gayner, Esq.	5	2	0	202	920	36.23	179
D Winterbourne (Kendleshire) ...	J. Marsh, Esq.	5	1	0	170	866	34.10	191
D „ Down (Elm Croft) ..	Hugh T. Coles, Esq.	5	1	0	250	939	36.97	210
D Frampton Cotterell (Park House)	H. H. Harding, Esq.	5	1	0	158	921	36.27	201
D Chipping Sodbury (The Ridge) ..	Lt.-Col. P. Burges	5	1	4	375	915	36.02	188

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam. in.	Height Above Ground		Sea Level	1916		
		in.	ft.	in.	feet.	mm.	inches.	
GLOUCESTERSHIRE—(con.)								
5.—LOWER AVON & C—(con.)								
Almondsbury (Over Court, Field)	late R. C. C. Lippincott, Esq	5	1	0	260	900	35·43	...
D " " " Park)	" " "	5	1	0	147	1010	39·76	198
D " " " Garden)	" " "	8	1	0	137	1002	39·44	198
Badminton Gardens	Mr. J. Pearce	5	1	0	407	1010	39·76	...
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	865	34·05	211
D " (Draycott)	C. W. Edmonds, Esq.	5	2	0	200	916	36·07	184
D Lechlade (St. John's Lock)	R. A. Swarbrick, Esq.	5	2	0	239	736	28·96	173
D " (Claydon House)	T. T. S. Metcalfe, Esq.	5	1	0	250	798	31·42	206
D " (Southrop)	Thomas Arkell, Esq.	...	1	0	...	785	30·91	...
D† Cirencester (Cripps Mead)	Mrs. Wilfred Cripps	5	0	8	366	994	39·12	204
D† " (Dollarward House)	C. P. Hooker, Esq.	5	1	6	366	1064	41·89	207
D† " " " " " " " "	" " " " " " " "	8	1	6	366	1048	41·26	207
D Great Barrington	H. J. Barrett, Esq.	5	1	6	430	924	36·39	188
D Northleach (Sherborne House)	Mr. A. Mitchell	5	1	0	420	1005	39·55	176
D " (The Vicarage)	Rev. R. C. S. Jones	5	0	9	545	878	34·58	192
D " (Leygore Manor)	Arthur E. Moss, Esq.	5	1	0	650	930	36·61	219
D Bourton-on-the-Water (Eastfield)	E. W. Kendall, Esq.	5	1	6	434	939	36·97	191
D " " " Rectory	Rev. W. E. White	5	0	10	433	909	35·77	189
D Wyck Rissington Rectory	Rev. P. H. Kempthorne	5	1	0	500	966	38·01	197
D Stow-on-the-Wold (Icomb Place)	G H Simpson	8	1	3	500	934	36·78	182
D " " " (Quar Wood)	Mrs. Bryant	5	1	0	690	957	37·69	200
D " " " (Maugersbury)	D. W. Horner, Esq.	5	1	0	590	1025	40·36	205
D " " " (Duncomb House)	R. I. Arkell, Esq.	5	0	9	700	902	35·53	...
HEREFORDSHIRE. (Area, 840 sq. mi.)								
1.—WYE. 685 sq. mi.								
D Weston-under-Penyard	Dr. G. W. Prevost	5	0	11	290	760	29·91	172
D Ross (Chasedale Observatory)	F. J. Parsons, Esq.	5	1	0	202	752	29·61	178
D† " "	Miss M. L. Southall	5	1	0	215	804	31·66	193
D Kentchurch Rectory	Rev. R. P. Dansey	5	1	0	215	935	36·82	198
† Ross (Perrystone Court)	Brig.-Gen. G. S. Clive, DSO	5	1	3	450	765	30·13	157
Brockhampton Court	Capt. A. W. Foster	8	4	0	...	948	33·38	...
D Fownhope (Lower House)	Miss F. Cresswell	5	1	5	200	779	30·68	180
D Woolhope (The Hyde)	J. A. Thompson, Esq.	5	1	0	440	758	29·85	185
Vowchurch (Whitehouse)	Arthur S. Wood, Esq.	5	5	0	450	888	34·94	197
Bullinghope Vicarage	Rev. Preb. H. T. Williamson	5	1	0	251	682	26·85	182
D† Hereford (Belmont Priory)	Rev. W. G. Sweeney, O.S.B.	8	1	0	291	722	28·43	181
D " (Breinton Court)	H. A. Wadworth, Esq.	5	3	0	238	663	26·10	177
D† " (Richmond Place)	W. Cooke, Esq.	8	1	0	184	684	26·92	190
D " (Broomy Hill)	W. R. Bufton, Esq.	5	1	0	200	694	27·33	183
† " (Hinton Court)	A. Battiscombe, Esq.	5	1	0	185	697	27·45	180
D† " (Holmer Hall)	Rev. Preb. M. Hopton	8	1	3	241	652	25·68	199
D Credenhill (Stretton Sugwas)	S. H. Armitage, Esq.	5	1	0	226	665	26·17	191
D† " "	F. E. Whiting, Esq.	5	1	5	275	738	29·05	185
D† Burghill Court	Miss E. D. Woodhouse	5	1	2	293	681	26·80	196
D† Ocle Pychard (Ocle Court)	G. Cresswell, Esq.	8	1	2	298	753	29·64	210

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above Ground Sea Level			1916		
		in.	ft.	in.	feet.	mm.	inches	
HEREFORDSHIRE—(con.)								
1.—WYE—(con.)								
Whitney-on-Wye	Mr. W. Burgess	8	1	0	428	939	36·98	212
Brilley Vicarage	Rev. W. Head	5	1	0	590	909	35·78	206
†Sarnesfield Rectory	Rev. W. Marshall	5	0	11	400	693	27·27	166
Wobley School	A. J. Dean, Esq.	5	1	0	320	780	30·70	194
†Pencombe Rectory	Rev. J. Seymour St. John	5	1	0	520	767	30·21	195
Huntington Court	E. Radclyffe Crump, Esq. ...	5	1	1	833	1008	39·69	222
†Pembroke (Dilwyn)	Dr. T. Lambert Hall	5	0	8	290	720	28·36	191
† „ (Burton Court)	Lieut.-Col. P. L. Clowes	5	1	0	400	764	30·08	182
Bromyard (Dumbleton Cottage) ..	T. V. Philpott, Esq.	5	1	0	393	704	27·72	188
† „ (Rowden Abbey)	H. J. Bailey, Esq.	5	1	0	450	746	29·39	198
† „ (Buckenhill)	Mrs. Phipps	8	1	6	410	714	28·12	168
†Kington (Gravel Hill)	Col. G. F. Pearson	5	0	8	535	854	33·63	208
†Pembroke (Marston)	H. Langston, Esq.	5	1	5	347	767	30·21	194
„ (Byletts)	Gen. Sir E. Wood, K.C.B.	5	1	5	350	718	28·27	191
Kimbolton (Grantsfield)	Miss E. Hutchinson	5	1	0	424	692	27·24	190
Eyton Hall	G. H. Evans, Esq.	5	0	6	300	716	28·20	162
2.—SEVERN—Right Bank Tributaries. 155 sq. mi.								
Much Marcle (The Mount)	Miss A. M. Charles	5	0	8	240	721	28·38	185
†Ledbury (Orchardleigh)	Miles A. Wood, Esq.	5	3	6	180	738	29·06	178
† „ (Underdown)	S. H. Bickham, Esq.	5	1	0	307	772	30·39	177
† „ („)	J. „ „ „ „ „ „ „ „ „ „	5	1	0	306	766	30·15	...
„ (Putley Court)	J. Riley, Esq.	5	1	0	290	840	33·07	178
„ (Wellington Heath Vic.)	Rev. F. S. Stooke-Vaughan	5	1	2	505	716	28·18	198
Old Colwall	T. W. Binyon, Esq.	5	0	6	450	774	30·46	205
Cradley (Mill Bank)	Lt.-Col. E. H. Thurlow ..	5	0	10	320	741	29·17	...
Leintwardine	Mrs. Charnock	5	1	6	430	846	33·32	201
SHROPSHIRE. (Area, 1343 sq. mi.)								
1.—MERSEY—Weaver. 27 sq. mi.								
2.—DEE. 30 sq. mi.								
Whitchurch (Fenns Bank)	M. W. Sowden, Esq., C.E.	8	1	0	271	627	24·68	184
Sodylt Hall	W. H. Horsfall, Esq.	5	1	0	267	716	28·18	163
3.—SEVERN—Right Bank Tributaries. 722 sq. mi.								
†Ashford House	W. Downes Hall, Esq.	5	0	5	315	833	32·81	238
Bromfield (Oakley Park)	Mr. J. R. Francis	5	1	0	300	740	29·12	207
„ (Warwick House)	F. Brayshaw, Esq.	5	1	0	320	755	29·74	219
Bitterley Rectory	Rev. Preb. J. R. Burton ..	5	1	3	509	776	30·56	233
†Wistanstow Rectory	Rev. W. M. D. La Touche	8	1	0	480	762	30·02	190
Lydbury North (The Lodge) ..	Richard Parry, Esq.	5	1	0	662	798	31·42	172
Clun Forest (Cwm Ffrydd)	Sydney Wilson, Esq.	5	1	0	1155	1008	43·22	...
Munslow Rectory	Miss Joan Powell	5	1	3	475	633	24·93	201
Bishops Castle (Totterton Hall) ..	W. H. Whitaker, Esq.	5	1	0	750	743	29·25	...
„ „ (Castle Street)	E. Griffiths, Esq.	5	2	0	720	807	31·77	191
„ „ Vicarage	Rev. C. E. Warner	5	1	6	596	858	33·76	232
„ „ (More Rectory)	Rev. Ridley Relton	6	0	11	600	795	31·30	...
Church Stretton (Sewage Works) ..	E. J. Marsh, Esq.	5	1	0	582	848	33·37	219
„ „ (Westover)	H. Constantine, Esq.	5	0	8	660	913	35·95	218
Bridgnorth (Cantreyn)	W. Bayliss, Esq.	5	3	0	290	697	27·44	192

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			1916		
		in.	ft.	in.	feet.	mm.	inches.	
SHROPSHIRE—(con.)								
3.—SEVERN—Right Bank Tributaries—(con.)								
Bridgnorth (Cantreyn)	W. Bayliss, Esq.	5	0	3	287	750	29.54	192
„ (Aldenham Park) ...	Mr. T. Canning.....	5	3	9	430	640	25.21	157
Church Preen (Preen Manor) ...	Mr. J. Hopkins	5	1	0	700	837	32.97	195
Church Stretton (Wolstaston) ...	Mrs. E. D. Carr	5	1	5	800	818	32.22	210
Much Wenlock (Willey Park)...	Lord Forester	5	3	0	492	739	29.08	198
Dorrington (Netley Hall) ..	Miss Hope-Edwardes.....	5	1	7	351	799	31.44	246
†Shrewsbury (Ordnance Surv.Off.)	Col. H. L. Jessop, per M.O.	8	1	0	191	622	24.49	181
† „ (The Abbey House)	Miss F. H. Rouse Boughton	8	1	3	181	675	26.59	206
„ (Highfield).....	T. M. Howells, Esq.	5	4	6	250	653	25.70	205
4.—SEVERN—Left Bank Tributaries. 564 sq. mi.								
Bridgnorth (Coton Hall)	Lt.-Col. E. M. Wakeman	5	1	6	460	732	28.81	179
Worfield (School House)	Frank Turner, Esq.	5	1	0	140	652	25.65	190
Shifnal (Hatton Grange)	Mr. G. Risebrow	5	4	4	262	698	27.48	228
„ (National Schools)	F. W. Haswell, Esq.....	5	1	5	279	751	29.58	207
Wellington (Public Baths)	G. Riley, Esq., C.E.	8	1	9	300	782	30.78	...
Shrewsbury (Sedgeford House)...	R. C. Sikes, Esq., C.E....	5	1	0	169	630	24.81	213
„ (Roden)	J. W. Nowell, Esq.	8	1	3	208	597	23.52	184
„ (Fitz Rectory)	Rev. W. Brewster... ..	5	1	2	238	657	25.88	219
„ („ Manor).....	Major J. F. Ll. Horner...	5	1	4	253	668	26.30	205
Newport (Aston Hall)	Col. R. Leeke.....	5	1	4	280	711	27.98	201
„ (Agricultural College)...	P. Hedworth Foulkes, Esq.	5	1	0	220	609	23.96	183
„ (Edgmond).....	J. Bodenham, Esq.	8	1	0	261	676	26.61	218
„ („).....weekly	„ „ „ „	5	1	0	261	678	26.71	218
„ (Chetwynd Park)	Mrs. Burton Borough.....	5	1	0	240	720	28.35	217
„ („ Gardens)...	Mr. N. Sherwood	5	1	0	250	724	28.49	219
Cheswardine (Knighton Res.) ...	G. R. Jebb, Esq., C.E....	5	1	0	351	753	29.63	207
Oswestry (The Mount Reservoir)	G. W. Lacey, Esq., C.E....	5	1	0	698	791	31.14	248
„ (Council School)	E. Compton, Esq.	5	1	0	450	872	34.31	201
Ellesmere	G. R. Jebb, Esq., C.E.	8	1	0	308	663	26.12	167
„ (The Grange)	Mrs. Ashton	5	0	10	340	595	23.44	163
Norton-in-Hales (School House)	C. Chadwick, Esq.....	5	1	3	350	710	27.96	198
STAFFORDSHIRE. (Area, 1165 sq. mi.)								
1.—MERSEY—Weaver. 50 sq. mi.								
Biddulph Grange	Robert Heath, Esq.	5	0	7	325	918	36.13	224
2.—SEVERN—Left Bank Tributaries. 160 sq. mi.								
Dudley (Shavers End)	H. A. Hill, Esq., C.E.	5	1	0	744	647	25.46	205
Wombourne (The Bratch)	late Baldwin Latham, Esq.	5	0	9	271	698	27.47	198
†Wolverhampton (Town Hall) ...	G. Green, Esq., C.E.....	5	15	6	481	709	27.90	203
† „ (West Park)	„ „ „ „	5	1	4	432	684	26.92	199
Patshull Park.....	The Earl of Dartmouth...	8	1	3	273	720	28.36	189
Weston Park [Shifnal].....	Julius White, Esq.	5	1	6	400	728	28.68	250
Norbury Junction	G. R. Jebb, Esq., C.E....	8	1	0	332	714	28.13	189
Loynton Hall.....	Col. S. T. H. Burne	5	0	10	390	707	27.79	167
Market Drayton (Old Springs)...	F. E. Harding, Esq.	5	1	0	423	690	27.16	211
Maer Hall Gardens	Mrs. F. J. Harrison	8	1	6	390	918	36.14	186
3.—TRENT—Right Bank Tributaries. 512 sq. mi.								
West Bromwich	(R) A.D. Greatorex, Esq., C.E.	8	1	7	546	629	24.78	193

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with "01 in. or more
		Diam.	Height Above Ground SeaLevel			1916		
		in.	ft.	in.	feet.	mm.	inches.	
STAFFORDSHIRE—(con.)								
3.—TRENT—Right Bank Tributaries—(con.)								
Wednesbury (Ocker Hill).....	A. W. Willet, Esq., C.E.	5	0	8	474	682	26·84	196
Walsall (Brockhurst Sew. Farm)	J. Taylor, Esq.	8	0	11	376	725	28·54	206
„ (Wednesbury Sewage Wks.)	T. Wicks, Esq.	5	2	8	381	661	26·01	211
Bilston (The Lunt Outfall)	Vincent Turner, Esq., C.E.	8	1	0	422	672	26·46	195
† Wolverhampton (Graiseley)	E. E. W. Berrington, Esq.	6	0	9	506	723	28·47	201
Bloxwich (Sneyd Reservoir).....	A. W. Willet, Esq., C.E.	5	1	0	507	705	27·76	222
Hammerwich (Cannock Chase Res.)	„ „ „ „	5	1	0	475	689	27·11	207
Brewood (Belvide Reservoir)	G. R. Jebb, Esq., C.E....	5	1	0	367	706	27·79	197
Lichfield (St. John Street)	Dr. F. M. Rowland	5	0	10	269	730	28·72	200
„ (Maple Hayes)	A. O. Worthington, Esq.	5	0	11	380	610	24·03	...
Penkridge (Rodbaston)	G. E. Ward, Esq.	5	0	9	324	762	29·99	191
Hednesford (Scout House)	H. A. Hill, Esq., C.E....	5	1	0	750	582	22·90	179
Milford Waterworks	W. Plant, Esq., C.E....	5	1	0	246	759	29·88	190
Shugborough	The Earl of Lichfield	5	1	0	260	840	33·07	237
Stafford (Rising Brook)	W. Fred. Wright, Esq....	5	1	0	273	756	29·78	212
„ (Corporation Dépôt)	W. Plant, Esq., C.E....	5	1	6	249	762	30·00	212
„ (West Bank, Doxey)	Leslie Wilson, Esq.	5	0	6	250	728	28·68	...
Little Ingestre	Major Cecil Gardner	8	1	6	...	748	29·45	194
Ingestre Park (Birch Hall)	H. H. Goddard, Esq.	5	1	8	320	662	26·05	...
Eccleshall (Walton Hall)	late Sir H. A. Wiggin, Bart.	5	1	0	344	762	30·01	201
„ „ „ „ „ <i>Weekly g.</i>	„ „ „ „ „	5	1	3	362	754	29·69	...
„ „ (Johnson Hall)	W. Moat, Esq.	5	1	1	400	725	28·54	202
Stone (Meece House)	E. J. W. Wood, Esq.	5	1	6	331	707	27·84	184
Standon (Hatton W. W.)	R. C. Frain, Esq., C.E....	5	1	8	355	740	29·14	195
4.—TRENT—Left Bank Tributaries. 193 sq. mi.								
Burton (Hoar Cross)	F. W. Lycett, Esq.	8	1	0	400	847	33·35	180
„ (Rangemore)	Mr. H. Barson	5	5	6	424	709	27·93	...
Burton (Shobnall)	Messrs. Bass & Co., Ltd.	5	5	6	156	679	26·75	180
Longton (The Meir)	R. C. Frain, Esq., C.E....	5	1	0	618	791	31·13	193
„ High School	H. O. Smith, Esq.	5	0	8	500	843	33·19	171
5.—TRENT—Dove. 250 sq. mi.								
Uttoxeter (Greenfields)	W. Ellaway Smith, Esq....	5	1	0	387	787	30·97	194
Teaon (Oak Hill)	Vincent H. Jackson, Esq.	5	2	0	590	832	32·77	198
„ (The Heath House)	Lt.-Col. B. H. Philips	5	0	6	647	840	33·05	198
Oakamoor (Woodbank)	M. A. Bolton, Esq.	5	1	6	550	872	34·32	199
Mayfield House [Ashbourne]	Graham C. Lawson, Esq....	8	1	0	374	869	34·20	207
„ „ „ „ „	„ „ „ „ „	8	1	0	374	880	34·63	209
„ „ (Doveside)	Mr. T. Bridge	8	1	0	421	841	33·11	202
Ipstones (Sharpcliffe Hall)	A. S. Boucher, Esq.	5	0	4	925	981	38·61	...
Leek (Wall Grange)	R. C. Frain, Esq., C.E....	5	1	0	458	946	37·23	197
„ (Hillesdon)	J. Wilson, Esq.	5	1	0	750	979	38·56	223
„ (Haregate)	Mr. G. Sweetmore	5	0	9	680	938	36·92	207
WORCESTERSHIRE. (Area, 717 sq. mi.)								
1.—SEVERN—Right Bank Tributaries. 231 sq. mi.								
Redmarley (Haselden)	Miss F. L. Newbury	5	0	5	280	698	27·48	164
Upton-on-Severn (Willow Bank)	J. Selwyn Cowley, Esq....	5	1	3	42	769	30·28	190
„ „ „ „ (The Eades)	Major E. W. Tennant	5	0	9	100	778	30·65	218

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more.
		Diam.	Height Above		1916			
			Ground	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
WORCESTERSHIRE—(con.)								
1.—SEVERN—Right Bank Tributaries—(con.)								
D Malvern (British Camp Res.)	W. Osborne Thorp, Esq. C.E.	5	0	11	677	774	30.49	188
D† „ (Church Street)	„ „ „	5	1	0	350	830	32.67	187
D† „ (Belle Vue House)	A. Mander, Esq.	5	4	0	520	828	32.59	193
D „ (High School)	E. W. Harris, Esq.	5	1	0	377	787	30.97	192
D „ (Clarence Road)	S. Bottomley, Esq.	5	1	0	300	776	30.57	...
D† „ (Hornyard Road)	Rev. T. Wolseley Lewis	5	1	0	492	740	29.13	189
D „ (Madresfield Court)	Mr. W. Crump	8	2	6	125	734	28.91	175
D Knightwick Sanatorium	H. Gordon Smith, Esq.	5	1	0	300	707	27.84	161
D† Worcester (Diglis Lock)	E. J. Bradley, Esq.	5	1	0	49	670	26.38	219
D „ (Bromwich House)	Rev. Manley Power	5	1	3	200	643	25.32	176
D† Martley Rectory	Rev. J. F. Hastings	5	1	0	220	696	27.38	182
D Ombersley (Holt Lock)	E. J. Bradley, Esq.	5	1	1	55	650	25.60	154
D Shelsley Grange	Lady Hughes	5	1	0	270	692	27.24	167
D Tenbury (St. Michael's)	Miss Hewitt	5	0	8	329	725	28.55	189
D† „ („ Roseland Cott.)	Frederick Lowe, Esq.	5	1	0	314	736	28.96	189
D „ (Teme Street)	„ „ „	5	1	0	180	723	28.46	196
D „ (Rochford Rectory)	Rev. J. Tomson	5	1	0	317	687	27.05	173
D Stockton-on-Teme (Eardiston)	Miss M. Wallace	5	0	8	200	736	28.97	176
D† Bewdley (Winterdyne)	Miss K. M. Sturt	5	1	0	100	618	24.34	187
D „ („)	M „ „ „	...	...	...	100	683	26.89	...
2.—SEVERN—Left Bank Tributaries. 194 sq. mi.								
D Kempsey (The Lodge)	Mrs. Isaac	5	0	9	80	688	27.07	192
D† Worcester (Belmont Road)	G. B. Wetherall, Esq.	5	2	0	180	581	22.89	165
D† „ (Water Works)	T. Caink, Esq., C.E.	5	0	9	56	642	25.28	185
D „ (Barbourne)	B. Brotherton, Esq.	5	1	0	92	638	25.11	175
D „ (Hindlip Hall)	Hon. C. S. K. Allsop	8	0	10	200	727	28.63	191
D „ (Bevere Lock)	E. J. Bradley, Esq.	5	1	1	52	653	25.71	172
D „ (Hawford Lodge)	F. Ames, Esq.	5	1	1	70	721	28.37	154
D Droitwich (Friar Street Dépôt)	H. Hulse, Esq., C.E.	12	2	9	98	676	26.60	193
D Bromsgrove (Tardebigge Res.)	F. A. Jones, Esq. C.E.	5	4	6	455	777	30.59	178
D „ (Burcot)	G. Merriman, Esq.	8	1	0	440	904	35.60	220
D Barnt Green (Blackwell)	W. H. Wynn, Esq.	8	2	10	625	537	21.14?	171
D „ (Upwood)	Miss M. Gibbins	5	0	9	650	677	26.66	190
D Stourport (Lincombe Lock)	E. J. Bradley, Esq.	5	1	0	62	730	28.75	180
D† Kidderminster (Brinton Park)	Mr. J. T. Cowderoy	5	1	0	160	616	24.24	189
D Pedmore (The Dene)	T. Grazebrook, Esq.	5	0	6	340	745	29.32	202
D Stourbridge	W. Fiddian, Esq.	8	0	11	210	711	27.99	197
D Netherton (Lodge Farm Res.)	A. W. Willet, Esq., C.E.	5	1	0	445	626	24.63	184
D Dudley (Borough Cemetery)	J. Gammage, Esq., C.E.	5	1	3	591	657	25.85	203
D „ (Trindle House)	S. Staffs Drainage Comm.	8	1	0	575	810	31.91	193
3.—SEVERN—Upper Avon. 260 sq. mi.								
D Blockley (Upton Wold)	E. W. Arkell, Esq.	5	1	0	800	962	37.88	198
D Shipston (Tidmington House)	Miss Staunton	5	1	1	233	897	35.33	...
D† Evesham (Bengeworth)	Messrs. Ross Bros., Ltd.	5	1	0	128	676	26.60	178
D† „ (Lansdowne)	R. Burlingham, Esq.	5	5	0	108	715	28.14	165
D† „ (Sewage Works)	H. S. Harvey, Esq.	8	3	0	86	633	24.92	194
D „ (Great Hampton)	H. C. Boutflower	5	1	0	150	611	24.06	174
D Shipston (Armscote)	W. L. Stanton, Esq.	5	1	1	241	782	30.78	200
D „ (Talton)	Capt. G. Lainson Field	8	1	0	160	657	25.88	190

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
WORCESTERSHIRE—(con.)								
3.—SEVERN—Upper Avon—(con.)								
†Shipston (Cookhill Co. School)...	T. Barber, Esq.	5	1	0	400	698	27.46	191
D Redditch (Hewell Gardens)	Mr. J. J. Graham	5	1	0	469	793	31.23	202
D Alvechurch (Bordesley Hall) ...	A. H. Wiggin, Esq. ....	...	4	0	490	825	32.47	182
D „ (High Croft)	D. B. Grubb, Esq.	5	1	0	580	854	33.63	199
D „ (Fairfield)	D. McMichael, Esq.	8	1	0	400	868	34.18	172
D Bromsgrove (Lower Bittal Res.)	F. A. Jones, Esq., C.E....	5	3	0	457	868	34.17	184
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	805	31.68	233
WARWICKSHIRE. (Area, 942 sq. mi.)								
1.—SEVERN—Upper Avon. 603 sq. mi.								
D Long Compton (Weston Park)...	H. A. Warriner, Esq.	8	3	0	510	787	30.99	183
Shipston (Honington Vicarage)...	Rev. E. H. Boddington...	5	0	10	215	764	30.10	175
Bidford (Moor Hall)	E. H. Cubberley, Esq.	5	1	0	125	698	27.49	197
D Wormleighton Hall	F. W. Burnett, Esq.	5	4	9	515	748	29.45	174
†Stratford-on-Avon (Avonfield) ..	G. W. Everard, Esq.	5	0	10	120	683	26.89	165
D† „ „ „ (Shottery Hall) ..	R. C. Carter, Esq.	5	0	8	140	698	27.49	173
Alcester (Ragley Hall)	Mr. C. Harding	5	1	0	270	724	28.49	...
D Wellesbourne School... ..	A. A. Dencer, Esq.	5	1	0	185	748	29.47	218
Ashorne	Mr. G. T. Osborn	5	1	0	160	708	27.88	...
„ „ „ weekly gauge	„ „ „ „ „ „ „ „ „	5	1	3	160	704	27.72	...
Snitterfield	F. W. Jones, Esq.	8	1	6	274	727	28.63	147
D Southam (Stockton House)	G. B. Blyth, Esq. ....	...	...	...	400	690	27.15	194
Warwick (Castle Gardens) ...	Mr. H. F. Smale	8	1	2	197	648	25.53	...
D Leamington (Pump Room Gardens)	H. Gibbins Ward, Esq.	8	1	0	166	698	27.47	196
Lapworth (Ardenhill)	A. R. Walker, Esq.	8	4	8	420	674	26.54	176
„ Croft	T. Birkett Barker, Esq.	5	2	0	410	859	33.82	180
Tanworth-in-Arden	F. Davies, Esq.	6	4	0	508	906	35.67	...
D Rugby (Bilton Grange)	W. H. G. Southcomb, Esq.	5	1	0	400	608	23.93	189
D „ (Temple Observatory) ...	B. B. Dickinson, Esq.	5	1	1	383	662	26.08	174
D Stretton-on-Dunsmore	Mrs. Lister-Kaye	5	0	9	245	735	28.92	176
D Ryton-on-Dunsmore (Ryton Ho.)	Charles Browett, Esq.	5	1	2	260	704	27.73	162
Kings Newnham	J. Brierly, Esq.	5	1	0	300	694	27.34	171
D Solihull Cemetery	Lieut. E. P. Currall	5	1	0	502	783	30.82	180
D Coventry (City Hospital)	E. H. Snell, Esq., M.D.	8	1	0	269	723	28.48	196
D „ (St. Paul's Road)	J. B. Morris, Esq.	5	1	0	324	721	28.38	194
„ (Kingswood)	R. B. Caldicott, Esq.	5	1	0	340	698	27.50	179
D Foleshill (Foxford School)	A. F. Smith, Esq.	5	10	9	311	722	28.44	194
D Coventry (Keresley Grange) ...	Miss H. Rotherham	5	0	10	413	764	30.07	230
D Bedworth Cemetery	Mr. G. O. Bosworth ...	5	1	0	385	700	27.54	167
2.—THAMES—Windrush & c. 2 sq. mi.								
3.—THAMES—Cherwell. 15 sq. mi.								
D Farnborough	Miss C. A. Prater	5	1	0	515	858	33.80	206
4.—TRENT—Right Bank Tributaries. 322 sq. mi.								
D Hockley Heath (Packwood)	E. S. Fry, Esq.	5	1	2	400	807	31.76	176
D Hampton-in-Arden (Estcote) ...	Lieut. E. P. Currall	5	1	0	340	702	27.64	188
D Solihull (Marsh Cottage)	„ „ „ „ „ „ „ „ „	5	1	0	420	793	31.22	183
D Northfield (West Heath House)	Prof. A. J. Brown, F.R.S.	5	1	0	590	764	30.09	211

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above			1916		
			Ground.	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
WARWICKSHIRE—(con.)								
4.—TRENT—Right Bank Tributaries—(con.)								
D Selly Oak (Bournville)	Messrs. Cadbury Bros., Ltd.	5	1	0	434	800	31.50	207
„ „ (Lodge Hill Cemetery)	Mr. W. Garden	5	1	4	540	774	30.46	172
D „ „ (South Hill)	W. Littleboy, Esq.	5	0	9	450	738	29.06	193
„ Moseley (Prospect Road)	Rev. F. Oscar Lane	5	1	0	550	716	28.19	...
D „ „ (Highfield Road)	J. Newland Brown, Esq. ..	8	1	9	550	766	30.15	201
D „ „ (Chantry Road)	G. F. Lyndon, Esq.	5	1	0	472	769	30.27	199
D Birmingham (Sparkhill)	D. H. Owen, Esq.	5	1	0	426	792	31.19	214
D „ „ (Edgbaston)	late A. Cresswell, Esq.	8	1	0	515	673	26.48	194
D „ „ „ (Highfield Rd.)	R. Priestman, Esq.	5	0	2	450	759	29.89	184
D „ „ (Hagley Road)	H. E. Stilgoe, Esq., C.E. ..	5	0	9	612	829	32.64	205
„ „ (The Crescent) ... M	J. J. Gilbert, Esq.	5	7	0	480	731	28.77	...
D „ „ (Gravelly Hill)	W. Ll. Mold, Esq.	5	3	0	470	770	30.33	175
D „ „ (Erdington)	E. Antony Lees, Esq.	5	1	3	472	673	26.48	197
D Minworth	J. D. Watson, Esq., C.E.	8	0	6	259	704	27.71	200
D Nuneaton (Chilvers Coton Vic.) ..	Rev. M. A. Dodds	5	0	10	283	627	24.69	174
D Whitacre (Birmingham W.W.) ..	E. Antony Lees, Esq.	5	1	5	269	679	26.73	208
D Sutton Coldfield (The Park)	Mr. H. Harland	5	1	0	371	732	28.83	188

DIVISION VII.—NORTH MIDLAND COUNTIES.

LEICESTERSHIRE. (Area, 824 sq. mi.)								
1.—SEVERN—Upper Avon. 41 sq. mi.								
D Lutterworth (Walcote)	Major Corbet Smith	5	0	6	290	771	30.34	...
D Bitteswell School Gardens	M. Smith, Esq.	5	1	0	401	787	30.97	211
2.—WELLAND. 96 sq. mi.								
D Market Harborough (Rose Hill) ..	G. O. Nicholson, Esq.	5	1	0	350	747	29.42	178
„ East Langton Grange	J. W. Logan, Esq., M.P.	5	1	0	300	662	26.05	...
D Kibworth Beauchamp	E. V. Phillips, Esq.	9	2	6	390	656	25.81	178
„ Hallaton Hall	S. N. Bankart, Esq.	8	1	3	366	694	27.33	...
„ Horninghold House <i>Snowdon g.</i> M	Mr. B. Inchley	5	1	6	380	684	26.94	...
„ „ „ <i>Float g.</i> M	„ „ „	6	2	0	380	627	24.70	...
3.—WITHAM. 7 sq. mi.								
4.—TRENT—Right Bank Tributaries. 680 sq. mi.								
D Wistow Hall Gardens	Col. Hon. T. F. Fremantle ..	5	1	0	307	704	27.71	175
D Countesthorpe (Wigston Sew. Fm.) ..	W. G. J. Clark, Esq., C.E.	8	0	9	257	649	25.55	196
D Blaby (Whetstone Road) ... No. 1	G. F. Shoults, Esq.	5	0	6	239	705	27.75	203
D Leicester (Stoneygate Road) ...	T. Spencer Smithson, Esq.	5	0	6	258	692	27.24	183
D „ „ (De Montfort Street) ...	Dr. Bernard Stracey	5	1	0	240	682	26.85	182
D „ „ (Town Hall Square) ...	E. G. Mawbey, Esq., C.E.	5	0	6	211	647	25.49	195
D† „ „ „ „ „ „ (R) ..	„ „ „	7	2	0	213	646	25.43	195
D Market Bosworth (Osbaston Hall) ..	Thomas Cope, Esq.	8	1	0	393	740	29.13	230
D Desford (Industrial School)	C. Oxley, Esq.	5	1	0	370	879	34.59	178
„ Humberstone Asylum	S. C. Leak, Esq.	8	1	0	266	742	29.20	194
D Leicester (Gilroes Cemetery) ...	E. G. Mawbey, Esq., C.E.	5	1	0	285	681	26.80	202
„ „ (Anstey Pastures)	W. P. Vicars, Esq.	5	1	1	280	633	24.91	...
D Thornton Reservoir	G. T. Edwards, Esq., C.E.	8	1	2	371	758	29.84	190
D Cropstone (Bradgate Reservoir) ..	„ „ „	8	1	0	246	767	30.21	193

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
LEICESTERSHIRE—(con.)								
4.—TRENT—Right Bank Tributaries—(con.)								
Barkby Hall	Victor R. Pochin, Esq.....	5	0	6	217	701	27.60	184
d Swithland (The Brand)	G. T. Edwards, Esq., C.E.	8	1	0	172	762	30.00	184
d Ratcliffe-on-Wreake College ...	Rev. J. Cremonini	5	1	0	288	730	28.75	187
d Ashby-de-la-Zouch (Coleorton Hall)	Mr. H. T. Wilson	5	2	0	540	806	31.72	193
Barrow-upon-Soar	G. Fellows, Esq. ....	..	...		220	676	26.61	171
d " " " (The Mount).	Mrs. C. Stuart Thomson...	5	1	6	...	704	27.72	167
d Melton Mowbray	Gerald Walsh, Esq.	5	0	11	345	670	26.37	197
d Charnwood Forest (Blackbrook Res.)	A. H. Walker, Esq., C.E.	8	1	0	367	828	32.58	197
d Loughborough (Nan Pantan Res.)	" " " " " " " "	8	1	0	269	783	30.84	186
d " " (The Widenings)	Adrian Young, Esq.	5	0	7	197	696	27.38	189
d " " (Sewage Farm)...	A. H. Walker, Esq., C.E.	8	1	0	134	643	25.33	177
d Burton-on-the-Wolds (Burton Hall)	Lord Ernest St. Maur.....	5	1	0	270	736	28.97	191
d Prestwold Hall	E. H. Packe, Esq.	8	1	0	209	742	29.21	190
d Waltham-on-the-Wolds	G. Higgins, Esq.	5	1	0	568	784	30.86	189
d Croxton Kerrial	C. J. Prowse, Esq.	5	1	0	480	857	33.74	208
d Belvoir Castle Gardens	W. H. Divers, Esq.	8	1	0	260	703	27.69	206
RUTLAND. (Area, 152 sq. mi.)								
1.—WELLAND. 125 sq. mi.								
d Uppingham (Ridlington)	N. W. Wortley, Esq.....	5	4	7	527	755	29.74	180
Wing (The Cottage)	J. P. W. Lightfoot, Esq...	5	1	1	370	698	27.49	173
Oakham (Fritham House).....	Mrs. Chapman	5	1	0	300	765	30.11	173
d Great Casterton Rectory	Rev. J. Scott Ramsay.....	8	1	0	126	802	31.59	169
d " " (Walk Farm) ...	H. Goodyear, Esq.....	5	1	8	330	720	28.34	...
2.—WITHAM. 5 sq. mi.								
3.—TRENT—Right Bank Tributaries. 22 sq. mi.								
LINCOLNSHIRE. (Area, 2646 sq. mi.)								
1.—NENE. 100 sq. mi.								
d Tydd (North Level Sluice)	Mr. S. Fovargue.....	5	3	6	10	735	28.94	161
2.—WELLAND. 341 sq. mi.								
Stamford (St. George's Square)..	T. Booth, Esq.	5	4	0	88	706	27.78	160
Crowland (Bank House)	W. J. Hardy, Esq.....	5	6	0	10	701	27.60	...
d Market Deeping (Wilsthorpe) ...	G. Nicholls, Esq.	8	3	10	55	619	24.36	165
d Holywell Hall	Col. C. Birch Reynardson	5	0	6	190	798	31.42	180
d Bourne (Council School)	J. Langsford, Esq.	5	1	0	23	796	31.33	167
d " " (Guthram)	F. S. Robins, Esq., C.E....	8	1	6	19	649	25.56	167
d Spalding (Pode Hole)	H. Bain, Esq.....	8	1	3	13	708	27.89	192
3.—WITHAM & C. 1085 sq. mi.								
d Stainby Rectory	Rev. W. L. de B. Thorold...	4	0	9	496	661	26.03	165
Stroxton Rectory	Rev. S. C. Wood	5	0	10	350	783	30.82	...
d Little Ponton Rectory	Rev. P. R. Worsley	5	1	0	250	844	33.25	214
d Denton Manor	Sir C. G. E. Welby, Bt., C.B.	5	3	0	310	746	29.38	219
d Grantham (Saltersford).....	H. Preston, Esq.	5	0	6	188	763	30.05	180
d " " (Guildhall)	J. H. Drew, Esq., C.E....	5	17	0	206	655	25.79	172
d " " (High Street)	Messrs. R. & W. Bird.....	5	1	0	202	782	30.77	174
d Boston (Black Sluice, Skirbeck).	F. S. Robins, Esq., C.E....	8	1	3	11	738	29.05	210

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			1916		
		in.	ft.	in.	feet.	mm.	inches.	
LINCOLNSHIRE—(con.)								
3.—WITHAM & C—(con.)								
D Boston (Sleaford Road)	J. Shaw, Esq.	5	1	2	9	770	30·31	184
D „ „	Lieut. G. E. Clarke, RNVR	8	1	0	13	724	28·52	193
D „ „ (Grand Sluice)	J. H. Johnson, Esq., C.E.	8	8	0	18	688	27·09	193
D „ „ (Bargate End)	A. O. Scrivener, Esq.	8	1	0	9	693	27·27	191
Carlton Scroop	Capt. J. H. W. Rennie ...	5	1	0	175	737	29·00	188
D Sleaford (Kesteven County Asylm.)	Dr. J. A. Ewan	5	0	9	100	682	26·85	192
D „ „ (Rauceby Hall)	late Rev. Vere F. Willson	5	1	0	125	748	29·45	195
D Claypole Rectory	Rev. F. R. A. Hamilton ...	8	2	0	70	700	27·54	199
D Fulbeck Hall ..	Col. W. V. R. Fane	5	0	8	180	747	29·39	236
New Leake (Lade Bank Engines)	J. H. Johnson, Esq., C.E.	8	1	0	10	561	22·08	...
D Carrington Grange	Mr. T. J. Ward	5	6	0	15	745	29·33	158
D Carlton-le-Moorland	J. Brocklebank, Esq.	5	1	2	49	708	27·88	184
Mareham-le-Fen	Mrs. G. L. Kime, <i>per</i> M.O.	5	3	0	11	806	31·71	194
D Revesby	J. Shaw, Esq.	5	2	0	135	754	29·67	151
Woodhall Spa (Petwood)	Mr. T. Williams	5	11	0	50	746	29·39	...
D „ „ „ (Galm House) ...	J. Collins, Esq.	5	1	6	72	715	28·15	211
D Spilsby (Hagnaby Priory)	Miss Pocklington	8	1	8	47	885	34·86	207
D Bardney Railway Station	A. Burridge, Esq.	8	7	6	25	551	21·68?	166
D Bucknall	Mr. Joshua Bint	5	1	0	33	715	28·14	201
D Horncastle	H. R. Maynard, Esq.	5	1	6	110	754	29·70	198
Lincoln (Boultham Pumping Sta.)	C. Horobin, Esq., C.E.	5	1	0	19	659	25·96	...
„ „ (Skellingthorpe Hall) ...	A. H. B. Coupland, Esq.	5	1	0	40	670	26·37	159
„ „ (Station)	Great Central Rly. Co. *	9	3	6	26	620	24·43	152
D „ „ (Sessions House)	Miss M. Herring	5	1	0	59	678	26·69	176
„ „ (D'Isney Place)	A. H. Leslie Melville, Esq.	4	1	0	215	691	27·22	190
D „ „ (Cottesford Place)	F. A. Peacock, Esq.	5	0	9	220	708	27·86	200
D „ „ (Monks Tower)	Miss Allanby	5	1	6	100	662	26·06	148
D Hackthorn Hall	E. W. Cracroft, Esq.	5	4	6	105	666	26·20	191
Willingham-by-Stow	R. C. Bacon, Esq.	8	2	0	70	693	27·27	198
Springthorpe Rectory	Rev. B. Davies	5	1	0	75	670	26·36	160
4.—GREAT EAU & C. 443 sq. mi.								
D Wainfleet (Bridge House)	G. Booth Walker, Esq.	5	1	0	17	750	29·53	207
Skegness (Estate Offices)	R. H. Jenkins, Esq. <i>per</i> M.O.	8	1	0	13	667	26·24	187
D East Keal Rectory	Rev. R. H. Simpson	5	0	7	180	648	25·52	210
D Halton Holgate	G. Rattenbury, Esq.	5	1	0	89	776	30·56	202
D Spilsby	Dr. L. Thompson Dean ...	5	2	0	150	773	30·43	180
D „ „ (Ashby Road)	J. Jarvis Rainey	5	1	0	160	711	27·98	182
Hagworthingham	Mr. R. Wright	5	1	1	252	842	33·14	185
D Harrington Hall	Mr. E. Burgess	5	0	4	163	837	32·95	155
Alford (The Cemetery)	Mr. E. Hodgson	5	1	0	29	593	23·36	186
D Mablethorpe (Trusthorpe Hall) ..	I. N. Woodiwiss, Esq.	8	1	3	10	806	31·72	203
D Louth (Westgate)	Dr. F. Fawssett	5	0	9	120	771	30·36	201
D „ „ (Elkington Hall)	Countess of Wilton	5	1	6	237	760	29·91	186
D Kirmond	C. Fieldsend, Esq.	5	1	2	309	835	32·89	221
5.—HUMBER—Right Bank Tributaries. 428 sq. mi.								
Market Rasen	F. C. Burrell, Esq.	5	0	8	84	721	28·37	...
„ „	Great Central Rly. Co.	9	3	6	100	605	23·83	168
Brigg Station	„ „ „	9	3	6	16	639	25·15	180

* 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 '01 in. or more
		Diam.	Height Above Ground. Sea Level			1916		
		in.	ft.	in.	feet.	mm.	inches.	
LINCOLNSHIRE—(con.)								
5.—HUMBER—Right Bank Tributaries—(con.)								
Brigg (Grammar School)	H. E. Bryant, Esq.	5	1	0	32	678	26·68	...
^D "	A. Atkinson, Esq., C.E.	8	1	2	11	694	27·34	199
^D Grimsby (Abbey Road).....	W. J. Wood, Esq., C.E.	5	3	0	23	720	28·36	179
"	Great Central Rly. Co.	9	15	0	42	629	24·76	...
Barnetby.....	" " " "	9	3	6	51	688	27·10	164
^D Brocklesby Park	Mr. F. C. Stainsby.....	5	2	0	108	790	31·12	187
^D Burton-upon-Stather(Normanby)	A. G. Wilkes, Esq.	5	0	10	185	680	26·79	179
^D Thornton Curtis Vicarage	Rev. C. B. Goodacre	8	1	4	66	697	27·44	198
^D " " School.....	J. A. Warburton, Esq.	5	3	3	70	634	24·95	166
^D Horkstow	E. J. Turton, Esq.	5	0	10	75	668	26·29	170
Ferriby Sluice	A. Atkinson, Esq., C.E.	5	1	0	18	661	26·04	195
New Holland	Great Central Rly. Co.	9	3	6	18	657	25·87	164
6.—TRENT—Right Bank Tributaries. 172 sq. mi.								
Woolsthorpe	A. Brown, Esq., C.E. ....	...	1	3	182	669	26·35	167
^D Swinderby (Ling Moor).....	Cecil H. Wray, Esq.	5	0	9	50	762	29·98	153
^D Lincoln (Doddington Hall)	Mrs. Jarvis	8	1	2	92	722	28·44	188
Gate Burton Hall	J. D. Sandars, Esq.	5	2	0	97	629	24·76	...
Gainsborough	Great Central Rly. Co.	9	...	...	76	573	22·57	169
^D Burton-upon-Stather Vicarage...	Rev. Canon F. A. Jarvis... ..	5	1	6	212	675	26·57	184
7.—TRENT—Left Bank Tributaries. 77 sq. mi.								
Wroot (S.Level Pumping Station)	Mr. F. S. Trafford	10	4	0	13	484	19·04	...
^D Althorpe Rectory	Rev. Allan Ellison	5	1	0	6	700	27·57	195
Crowle(N.Level Pumping Station)	Mr. H. G. Trafford.....	5	2	6	10	573	22·55	...
Keadby	Great Central Rly. Co.	9	3	6	17	606	23·84	168
^D " (The Hollies)	G. Kelsey, Esq. ....	...	...	...	20	645	25·41	194
NOTTINGHAMSHIRE. (Area, 843 sq. mi.)								
1.—WITHAM. 10 sq. mi.								
2.—TRENT—Right Bank Tributaries. 218 sq. mi.								
Kingston(Midland Agric.College)	P.W.Bailey, Esq., per M.O.	5	1	0	125	606	23·85	194
^D Plumtree(Normanton-on-Wolds)	T. A. Hill, Esq.	8	1	0	170	701	27·59	205
^D Nottingham (Wilford Hill Res.)	F. W. Davies, Esq.	8	0	11	296	673	26·49	190
Cropwell Bishop (Cropwell Grove)	H. Smith, Esq., jun.	5	1	1	160	673	26·48	...
Bingham (Whatton Manor)	Lt.-Col. M. H. Hall	5	3	0	104	659	25·95	170
^D Newark Castle Gardens	Mr. W. York	5	0	8	63	635	24·99	177
^D North Collingham (Markham Ho.)	The Misses Turton.....	5	1	0	38	698	27·49	198
3.—TRENT—Derwent. 2 sq. mi.								
4.—TRENT—Erewash. 42 sq. mi.								
^D Beeston (West End)	Dr. F. Rothera	5	1	0	104	758	29·84	189
^D Nottingham (Strelley)	T. L. K. Edge, Esq.	8	1	0	396	792	31·16	216
^D " (" Hall)	" " " "	5	1	0	378	727	28·61	191
" (" ")	" " " "	5	1	0	379	743	29·26	...
^D Bulwell (Watnall Reservoir) ...	F. W. Davies, Esq.	8	0	11	472	911	35·87	225
^D Eastwood Colliery	Mssrs.Barber, Walker & Co	5	1	0	245	805	31·70	212
^D " (Moorgreen Reservoir)...	Great Northern Ry. Co.	5	6	0	301	679	26·72	214
Annesley (Selston W.W.).....	S. Maylan, Esq.	5	1	0	475	663	26·11	169
5.—TRENT—Left Bank Tributaries. 569 sq. mi.								
Nottingham (Trent Lane) ... (R)	A. Brown, Esq., C.E.	8	0	10	85	674	26·55	181
^D " (The Castle)	" " " "	8	1	2	192	687	27·04	204

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above Ground. Sea Level			1916		
		in.	ft.	in.	feet.	mm.	inches.	
NOTTINGHAMSHIRE—(con.)								
5.—TRENT—Left Bank Tributaries—(con.)								
Nottingham (The Castle)	A. Brown, Esq., C.E.	8	76	0	268	624	24·56	183
" (Carisbrook Ho., The Park) ..	W. Bradshaw, Esq.	5	2	0	247	720	28·35	191
" (Stoke Bardolph) ...	A. Brown, Esq., C.E.	8	1	0	66	716	28·18	181
" (Mapperley Hill) ...	E. Powell, Esq.	8	1	0	400	708	27·89	188
Bagthorpe (Isolation Hospital)...	P. Boobbyer, Esq., M.D.	8	2	0	189	687	27·04	190
Nottingham (Basford W.W.) ...	F. W. Davies, Esq.	8	1	0	169	716	28·19	174
Burton Joyce Water Works.	" " " "	8	0	9	64	775	30·51	186
Bulcote (Corporation Farm)	A. Brown, Esq., C.E.	10	1	3	65	707	27·83	151
Lowdham (Chilwell Nurseries) ...	Mr. J. D. Pearson	5	1	7	90	628	24·73	...
Bulwell (Bestwood W.W.) ...	F. W. Davies, Esq.	8	1	2	317	730	28·75	179
Daybrook (Red Hill Reservoir)...	" " " "	8	0	11	407	778	30·63	207
" (Ramsdale Hill Res.) ..	" " " "	8	0	10	495	812	31·97	204
Bulwell Hall Park	A. Brown, Esq., Esq., C.E.	8	1	0	252	780	30·69	198
Hucknall Torkard (Forge Mills) ...	J. D. Walker, Esq.	5	4	3	200	700	27·54	161
Papplewick (Water Works)	F. W. Davies, Esq.	8	0	10	317	772	30·41	204
Southwell (Elmfield)	Dr. H. Handford	5	1	0	132	647	25·49	179
" (")	" " " "	5	1	0	132	643	25·30	...
" (Westgate)	Rev. Canon J. Singleton..	5	1	0	127	639	25·17	162
† Farnsfield	Dr. C. Wills	5	1	0	210	703	27·69	186
† Sutton-in-Ashfield W.W.	Messrs. G. & F. W. Hodson	5	1	1	462	742	29·23	...
" " " " Sewage Wks.	F. J. Grierson, Esq.	5	1	0	453	784	30·86	179
† Mansfield (W.W. Rainworth) ...	Messrs. G. & F. W. Hodson	5	1	0	360	776	30·56	180
" (High Oakham)	P. J. Shacklock, Esq.	5	1	0	425	860	33·87	210
† " (West Bank)	W. Pickard, Esq.	8	1	0	405	796	31·33	193
Clipstone Water Works	Messrs. G. & F. W. Hodson	5	1	0	236	712	28·03	156
Ollerton (Boughton W.W.)	F. W. Davies, Esq.	8	0	7	141	645	25·40	174
" (Thoresby Gardens)	Mr. A. Simmons	8	0	9	125	793	31·22	170
Clumber Gardens	A. P. Elliott, Esq.	5	4	0	170	794	31·25	...
Elkesley Pumping Station	C. Horobin, Esq., C.E.	5	1	0	118	695	27·35	186
Rampton Manor	C. E. Ellis, Esq.	6	1	3	26	644	25·36	183
Workshop (Carlton Road)	J. Edeson, Esq.	5	1	1	154	622	24·47	175
"	Great Central Rly. Co.	9	3	6	127	592	23·32	...
" (Osberton Gardens) ...	Mr. J. B. Allan	5	3	6	70	690	27·15	193
Retford	Great Central Rly. Co.	9	3	6	52	632	24·87	168
" (Grammar School)	G. R. Davies, Esq.	8	0	11	53	664	26·13	195
" (Morton Hall)	W. H. Mason, Esq.	5	1	0	140	650	25·59	172
" (Sewage Disposal Works) ...	J. D. Kennedy, Esq.	5	1	0	74	746	29·38	208
Sturton-le-Steeple	S. Ingham, Esq.	5	1	6	40	637	25·09	167
Workshop (Wigthorpe Hill)	R. C. Ramsden, Esq.	5	1	0	100	597	23·51	167
† " (Hodsock Priory)	Lt.-Col. H. Mellish, C.B.	8	1	0	56	621	24·46	184
† " (" ")	" " " "	5	1	0	56	610	24·00	...
† " (" ")	" " " "	11	1	6	56	608	23·94	182
Scrooby	Mr. J. Mallender	5	1	0	44	611	24·06	206
The Gardens [Bawtry Hall]	Mr. F. E. Hogbin	5	1	3	31	620	24·42	187
Stockwith	Great Central Rly. Co.	9	3	6	21	623	24·54	184
Bawtry (Hesley Hall)	B. I. Whitaker, Esq.	8	0	11	61	633	24·91	185
6.—OUSE—Don. 2 sq. mi.								

6.—OUSE—Don. 2 sq. mi.

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above		1916			
			Ground	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
DERBYSHIRE. (Area, 1029 sq. mi.)								
1.—MERSEY, UPPER. 93 sq. mi.								
Comb's Reservoir	Great Central Rly. Co.....	9	3	6	710	1023	40.26	245
Chapel-en-le-Frith	" " " "	9	3	6	965	879	34.61	205
D Whaley Bridge (Mosley Hall)...	S. Arrowsmith, Esq.	9	1	2	760	1134	44.64	226
D "								

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
DERBYSHIRE—(con.)								
6.—TRENT—Derwent—(con.)								
D Buxton (Burbage Edge)	F. Langley, Esq., C.E....	8	1	0	1400	1450	57.10	266
D „ (Devonshire Hospital)...	W. Pilkington, Esq.	5	1	0	988	1210	47.64	232
D† Holmesfield (Barbrook Reservoir)	Gilbert Frith, Esq., C.E....	8	1	0	1080	1069	42.10	230
D† Eyam (The Rectory)	Rev. F. L. Shaw	5	1	0	856	1075	42.31	208
„ (The School)	R. Owen, Esq.	5	1	6	856	1036	40.79	207
D Froggatt Edge (Moorlands)	Rev. W. Vale Bagshawe	5	1	0	530	986	38.83	197
D† Grindleford (Grouse Inn) No. 58	S. B. Winsor, Esq., C.E....	5	1	0	990	1087	42.78	206
D Hope (Killhill Bridge) ... No. 56	„ „ „	5	1	0	555	1165	45.88	221
D Bamford (Engineer's Office) No. 60	„ „ „	8	2	0	510	1043	41.08	253
„ (Yorkshire Br. Weir) 59	„ „ „	5	1	0	540	1042	41.01	218
„ Filters	„ „ „	8	1	0	656	1205	47.44	268
Derwent Vicarage	„ „ „	8	1	0	675	1254	49.38	221
„ Dam	„ „ „	8	1	0	790	1197	47.13	243
„ (Lockerbrook Plant.) 68	„ „ „	5	1	0	755	1364	53.70	...
Woodland Dale (Woodlands, S.) 48	„ „ „	5	1	0	1044	929	36.56	...
„ „ („ N.) 47	„ „ „	5	1	0	1063	980	38.59	...
Hayfield (Ashop Head) .. No. 43	„ „ „	5	1	0	1650	1199	47.20	...
Derwent Dale (Shire Owlers) 69	„ „ „	5	1	0	825	1208	47.57	...
„ „ (Birchinlee) No. 23	„ „ „	8	1	0	870	1352	53.25	...
Westend Bridge	„ „ „	5	1	0	878	1430	56.28	...
Lady Clough Moor	„ „ „	5	1	0	1720	1212	47.70	...
Coldharbour Moor (Summit) No. 39	„ „ „	8	1	0	1670	1212	47.73	...
Derwent Dale (Howden Dam) 17	„ „ „	8	1	0	829	1330	52.36	232
„ „ (Ridge Farm) ... 13	„ „ „	8	1	0	1175	1175	46.26	...
Alport Moor (Glethering Clough) ... 40	„ „ „	5	1	0	1640	1183	46.56	...
Westend Moor	„ „ „	5	1	0	1560	1290	50.80	...
Alport Moor	„ „ „	5	1	0	1790	1222	48.10	...
Broadhead Clough ... No. 63	„ „ „	5	1	0	1005	1580	62.20?	...
Derwent Dale (Slippery Stones) 62	„ „ „	5	1	0	908	1438	56.63?	...
Ridgewalk Moor	„ „ „	5	1	0	1650	1468	57.80	...
7.—TRENT—Erewash. 50 sq. mi.								
D Trowell (Ilkeston Sew. Wks.) (R)	H. J. Kilford, Esq., C.E.	6	1	11	134	610	24.02	164
D Codnor (Cross Hill)	A. F. Pine, Esq.	5	1	0	372	709	27.90	175
D „ Park	Midland Railway Co.	5	1	0	243	800	31.51	212
8.—OUSE—Don. 148 sq. mi.								
Hardwick Hall	Mr. E. Wilson	8	2	6	594	789	31.06	170
Grassmoor Colliery	Mr. J. Norman	5	19	10	370	534	21.01	...
† Chesterfield (Gas Works)	Chesterfield Water Board	5	1	0	279	647	25.47	...
„ „	Great Central Rly. Co.	9	3	6	250	707	27.85	171
D „ (Sewage Works) ...	Mr. W. Tomlinson.	5	2	0	222	658	25.89	164
D† „ (Linacre Reservoir)	Chesterfield Water Board	8	1	0	460	892	35.11	188
D† „ „ „ „	„ „ „ „	5	1	0	490	787	30.98	188
„ (Tapton Grove)	Mr. W. R. Bloxham	5	4	3	400	698	27.50	...
D Totley Hall	W. A. Milner, Esq.	5	1	0	700	1068	42.03	209
D Eckington (Mosbrough C.E. Sch.)	W. H. Holmes, Esq.	5	1	0	330	753	29.63	177
Killamarsh (Norwood)	Great Central Rly. Co.	9	3	6	226	668	26.28	193
D† Norton	Col. Sir N. Creswick, K.C.B.	5	0	8	700	834	32.82	190

DIVISION VIII.—NORTH WESTERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground Sea Level			1916		
		in.	ft.	in.	feet.	mm.	inches.	
CHESHIRE. (Area, 1027 sq. mi.)								
1.—MERSEY, UPPER. 269 sq. mi.								
† Macclesfield (West Park)	Mr. S. H. Moss, <i>per</i> M.O.	5	1	0	501	888	34.94	184
„	Great Central Rly. Co.	9	3	6	539	697	27.43	196
D† „ (Swanscoe Park)	T. C. Horsfall, Esq.	5	1	0	676	903	35.55	231
D Bollington Cross (Turner Heath)	Mr. C. Brown	5	1	6	500	901	35.48	180
D Kettleshulme (Glebe House)	A. Y. Barker, Esq.	5	1	6	850	1040	40.93	209
„ Whaley Bridge	Great Central Rly. Co.	9	3	6	602	1109	43.65	226
D Poynton (Waterloo)	C. F. Butterworth, Esq.	5	1	0	397	848	33.40	198
D Disley (Lyme Park)	T. Molyneux, Esq.	5	1	0	674	837	32.94	201
D „ „ „	„ „ „	5	1	0	720	776	30.55	201
D Runcorn (Weston Point)	J. A. Saner, Esq., C.E.	8	1	4	17	638	25.12	194
D Thelwall (The Clough)	E. W. Reynolds, Esq.	5	1	0	95	810	31.89	191
„ „ „	„ „ „	5	1	0	95	803	31.60	...
Altrincham (Norman's Place)	Miss G. A. Griffiths	5	8	0	150	894	35.21	169
„ (Barrington House)	C. E. Newton, Esq., C.E.	8	2	6	103	787	31.00	...
Cheadle (Adswold)	R. W. Wright, Esq.	5	0	6	186	821	32.31	...
D Northenden (Wythenshawe Hall)	T. E. Tatton, Esq.	5	1	0	114	778	30.64	202
„ „ „ „ „	„ „ „ „ „	8	1	0	114	753	29.64	...
Marple Top Lock	Great Central Rly. Co.	9	3	6	523	883	34.76	180
Stockport (Cale Green Park)	F. Taylor, Esq., <i>per</i> M.O.	5	1	0	247	824	32.35	...
Godley Reservoir	G. H. Hill, Esq., C.E.	12	2	0	500	970	38.18	...
Newton	Great Central Rly. Co.	9	3	6	396	920	36.22	216
Mottram Station	„ „ „ „ „	9	3	6	452	968	38.11	180
D Broadbottom (Harewood Lodge)	Col. Sidebottom	5	1	0	440	971	38.22	178
D Dukinfield (Higher Reservoir)	F. J. Dixon, Esq., C.E.	8	1	6	495	789	31.08	203
D „ (Lower „ „)	„ „ „ „ „	5	1	0	435	889	35.00	203
Arnfield Reservoir	G. H. Hill, Esq., C.E.	12	2	6	550	1118	44.01	...
Rhodes Wood Reservoir	„ „ „ „ „	12	1	0	520	1253	49.34	...
Torrside Reservoir	„ „ „ „ „	12	1	6	680	1354	53.30	...
D Stalybridge (Market Ground Yard)	F. J. Dixon, Esq., C.E.	5	1	0	373	1034	40.69	205
D „ (Brushes Filter House)	„ „ „ „ „	8	1	0	615	1077	42.39	221
D „ „ „ „ „ (R)	„ „ „ „ „	6	3	0	615	1025	40.35	221
Swineshaw Moor (Lees Hill)	„ „ „ „ „	5	1	0	1168	1097	43.20	...
Woodhead Reservoir	G. H. Hill, Esq., C.E.	12	0	10	660	1305	51.39	...
2.—MERSEY—Weaver. 489 sq. mi.								
D Baddiley (Nantwich W. W.)	late Baldwin Latham, Esq.	5	1	0	231	714	28.13	188
D Nantwich (Dorfold Hall)	J. A. Saner, Esq., C.E.	8	1	0	190	724	28.51	208
D „ (Reaseheath Hall)	„ „ „ „ „	8	1	0	130	718	28.26	217
D Sandbach (Malkins Bank)	Messrs. Brunner Mond & Co.	5	3	8	138	580	22.82	175
† Congleton (Sewerage Works)	J. H. Walters, Esq., C.E.	5	1	0	248	779	30.66	189
D† „ (Buglawton Vicarage)	J. A. Saner, Esq., C.E.	8	5	0	347	792	31.19	207
Bosley Reservoir	Great Central Rly. Co.	9	3	6	590	766	30.14	200
„ Minns	„ „ „ „ „	9	3	6	1210	653	25.70?	206
D Middlewich	Messrs. Brunner Mond & Co.	5	3	10	138	600	23.62	177
„ (Bostock Hall)	Mr. A. H. Hall	5	5	0	157	745	29.33	...
D Chelford (Astle Hall)	G. Dixon, Esq.	5	1	0	250	773	30.44	164
„ „ „ „ „	„ „ „ „ „	8	1	0	250	770	30.32	...
Northwich	Great Central Rly. Co.	9	3	6	76	593	23.33	163
D „ (Hunts Lock)	J. A. Saner, Esq., C.E.	8	1	0	47	716	28.21	194
D „ (Winnington)	Messrs. Brunner Mond & Co.	5	1	0	64	684	26.93	200

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above Ground.			1916		
		in.	ft.	in.	feet.	mm.	inches.	
CHESHIRE—(con.)								
2.—MERSEY—Weaver—(con.)								
D Northwich (Lostock Gralam) ...	Messrs. Brunner Mond & Co.	5	3	6	75	733	28·86	194
3.—MERSEY, LOWER & C. 142 sq. mi.								
D Ince Hall	Mrs. Park-Yates	5	1	0	110	731	28·77	196
D Hooton Water Works	A. J. Robinson, Esq.	5	1	0	97	706	27·78	191
D Eastham (Mill Hey)	Roger P. Sing, Esq.	5	1	7	125	800	31·51	198
„ House	J. H. Vernon, Esq.	5	1	0	100	750	29·54	209
D Wirral W.W. (Prenton) ...	A. J. Robinson, Esq.	5	1	0	91	684	26·94	194
D Rock Ferry (Elmhurst)	Miss Shepherd	8	6	0	110	752	29·59	173
Birkenhead (Bidston Observatory)	W. E. Plummer, Esq.	8	1	0	189	632	24·87	195
D Hoylake (District Council Office)	R. W. Fraser, Esq.	5	1	0	33	656	25·84	213
D Wallasey (Marine Park)	Dr. T. W. N. Barlow	5	1	0	35	739	29·09	193
4.—DEE. 127 sq. mi.								
Eaton Hall Gardens	Mr. N. F. Barnes	5	3	0	72	567	22·31	...
Eccleston	E. Wells, Esq.	5	1	1	94	628	24·71	170
D Rowton (Holly Bank)	R. J. Salmon, Esq.	5	1	5	123	609	23·97	170
D Chester (Curzon House)	J. H. Howell, Esq.	5	1	1	63	639	25·15	189
D „ (Christleton Lodge)	Mr. C. R. Heywood, junr. ...	...	1	0	100	621	24·44	183
D „ (Water Works)	C. Wilfrid Bennett, Esq.	5	0	10	85	593	23·35	186
D „ („ „)	„ „ „	8	2	3	85	599	23·59	186
D „ (Northgate Station)	Great Central Rly. Co.	9	3	6	84	629	24·75	175
D Capenhurst Hall	R. T. Richardson, Esq.	5	5	10	125	725	28·53	185
D Neston (Vine House)	H. F. Russell, Esq.	5	1	0	111	636	25·06	198
West Kirby (Hilbre House)	Egerton Macdonald, Esq.	5	0	9	25	692	27·25	...
„ „ (The Abbey Manor)	Cedric R. Boulton, Esq.	5	0	10	200	618	24·34	180
SOUTH LANCASHIRE. (Area, 687 sq. mi.)								
1.—ALT & C. 103 sq. mi.								
D Liverpool (Huyton Vicarage) ...	Mrs. E. M. Sanderson	5	0	11	116	830	32·66	207
D „ (Knotty Ash)	W. M. Reade, Esq.	5	1	0	100	743	29·25	235
D Great Crosby (Alexandra Park) ..	S. Wilson, Esq.	5	1	0	34	714	28·09	186
D Blundellsands (Myra)	H. Montgomery, Esq.	5	1	0	35	719	28·31	199
D Ormskirk (Bickerstaffe Pump Sta.)	G. H. Abbott, Esq.	5	1	2	128	835	32·88	186
D „ (Springfield Pumping Sta.)	„ „ „	5	0	11	70	886	34·89	189
2.—MERSEY, LOWER. 240 sq. mi.								
Garston	J. A. Brodie, Esq., C.E.	10	1	10	84	891	35·07	207
D „ (Grassendale Park)	Miss E. C. Abraham	5	1	0	35	731	28·78	192
D Aigburth (Holmfield)	Miss Maxwell	5	1	0	100	764	30·09	217
D „ (Beech Lawn)	T. H. Edwards, Esq.	8	1	0	150	720	28·33	210
D Woolton (Roseleigh Gardens) ...	Mr. J. Stoney	8	1	0	180	827	32·55	211
D Warrington (Howley Yard)	A. M. Ker, Esq.	10	0	10	26	809	31·86	191
„ (Cemetery)	„ „ „	5	4	10	39	724	28·50	...
„ (Central Station)	Great Central Rly. Co.	9	3	6	59	758	29·85	158
† Liverpool (Monument Place) ...	J. A. Brodie, Esq., C.E.	5	1	3	126	717	28·22	188
D† „ („ „ „) (R)	„ „ „	10	4	6	129	705	27·76	188
„ (Smithdown Road) ...	„ „ „	10	0	9	135	801	31·55	211
„ (Rathbone Road)	„ „ „	10	1	0	199	872	34·33	200
„ (Lank Lane)	„ „ „	10	10	8	101	831	32·73	205
„ (Newsham Park)	„ „ „	10	1	0	140	787	30·97	197

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 01 in. or more
		Diam.	Height Above		SeaLevel	1916		
			Ground					
		in.	ft.	in.	feet.	mm.	inches.	
SOUTH LANCASHIRE—(con.)								
2.—MERSEY, LOWER—(con.)								
Liverpool (Huskisson Station)...	Great Central Rly. Co....	9	3	6	42	736	28.98	188
„ (Breeze Lane)	J. A. Brodie, Esq., C.E....	5	0	9	135	829	32.65	208
St. Helen's (Eccleston Hill).....	A. W. Bradley, Esq.	12	2	9	268	793	31.23	183
D Earlestown (Newton Cemetery)..	T. E. Clough, Esq.	5	1	0	75	929	36.57	159
D Leigh (Leesrigg)	Maj. T. Hunter, V.D., C.E.	5	1	0	71	715	28.16	185
D Tyldesley Gas Works	Mark Newsome, Esq.	5	1	0	150	1070	42.14	185
3.—MERSEY—Irwell. 299 sq. mi.								
Urmston (Sew. Wks., Davyhulme)	G. F. Walter, Esq.	8	2	3	72	689	27.13	192
D Manchester (Godlee Observatory)	W. C. Jenkins, Esq.	8	1	3	140	778	30.61	200
D „ „ „ „ (R)	„ „ „ „ „	11	1	6	140	786	30.96	201
„ „ (Piccadilly)	Great Central Rly. Co....	9	40	0	194	753	29.65	204
„ „ (Fairfield)	„ „ „ „ „	9	6	0	312	834	32.83	210
+ „ „ (Oldham Road)	Dr. J. Niven	5	1	0	191	846	33.30	212
+ „ „ (Whitworth Park).....	Manchester Univ. per M.O.	8	1	5	126	830	32.67	206
D Eccles (Worsley New Hall)	Mr. W. B. Upjohn	8	10	0	80	872	34.33	184
D Ashton-under-Lyne (Knott Hill Res.)	F. J. Dixon, Esq., C.E....	8	1	3	605	1011	39.82	219
Prestwich Reservoir	G. H. Hill, Esq., C.E....	12	2	0	356	885	34.83	...
D „ „ (Heaton Park)	Bertram Meek, Esq., C.E.	8	1	0	312	968	38.13	190
D+ Oldham (Alexandra Park)	Dr. J. B. Wilkinson	5	1	0	600	1026	40.41	224
„ „ (Honeywell Lane)	Great Central Rly. Co....	8	3	6	553	1004	39.53	223
„ „ (Brushes Clough) <i>old g.</i>	C. J. Batley, Esq., C.E. ..	5	4	0	930	1204	47.42	225
„ „ „ „ „ <i>new g.</i>	„ „ „ „ „	5	5	0	955	1225	48.23	224
D+ Bolton (Queen's Park)	T. Midgley, Esq.	5	1	0	342	1139	44.86	212
D+ „ „ (Heaton Reservoir)	Lewis Mitchell, Esq., C.E.	5	1	0	500	1101	43.34	221
D „ „ (Bloomfield, Heaton) ...	Mrs. F. Taylor	5	1	0	530	1128	44.39	232
D „ „ (Smithills).....	R. E. Proffitt, Esq.	5	6	0	492	1173	46.18	215
D+ „ „ „ „ „ Hall) ...	Col. R. H. Ainsworth.....	8	1	2	510	1216	47.88	158
„ „ „ „ „ Moor)... <i>weekly</i>	„ „ „ „ „	8	1	2	1375	1387	54.60	...
D Bury (Parsons Lane).....	R. B. Rigby, Esq.	8	9	8	316	1096	43.17	220
D New Hey (Sewage Works)	Mr. J. B. Ogden	5	1	0	514	1129	44.44	211
D+ Milnrow (Piethorne, Kitcliffe)...	C. J. Batley, Esq., C.E....	5	4	6	769	1169	46.01	217
+ „ „ „ „ „ Coldgreave)	„ „ „ „ „	5	4	6	894	1110	43.72	222
+ „ „ „ „ „ Norman Hill)	„ „ „ „ „	5	4	6	1076	1053	41.45	219
+ „ „ „ „ „ Rooden Res.)	„ „ „ „ „	5	4	6	1131	1005	39.56	220
D Rochdale (Roch Mills Sew. Wks.)	S. S. Platt, Esq., C.E.	8	1	1	363	1139	44.84	229
D+ „ „ (Broadfield Park Obsy.)	Dr. A. G. Anderson	8	0	6	472	1172	46.14	243
D „ „ (Fieldhead Yard)	S. S. Platt, Esq., C.E....	8	12	0	484	1076	42.36	217
D „ „ „ „ „ „ „ „) (R)	„ „ „ „ „	8	12	0	484	1077	42.39	217
D+ „ „ (Ashworth Moor Res.)	J. S. Diggle, Esq., C.E....	5	1	2	957	1102	43.38	210
D Bury (Gin Hall)	No. 1 J. Woodhead Smith, Esq. C.E.	8	1	0	475	1139	44.85	223
D „ „ „ „ „ „ „ „) No. 2	„ „ „ „ „	8	1	0	475	1163	45.79	223
D+ Bolton (Belmont Reservoir)	Lewis Mitchell, Esq., C.E.	5	1	0	800	1418	55.83	236
D Rochdale (Hamer Pasture Res.)..	F. H. Brunt, Esq.	8	1	0	760	1431	56.33	231
D „ „ (Naden Filters).....	J. S. Diggle, Esq., C.E....	5	1	8	761	1179	46.40	212
Norden (Higher Red Lumb)... M	„ „ „ „ „	5	1	2	1125	1180	46.46	...
„ „ (Far Knowl)..... M	„ „ „ „ „	5	0	10	...	1212	47.72	...
Rochdale (Naden Dean)... <i>old g.</i> M	„ „ „ „ „	5	1	7	961	979	38.55	...
„ „ „ „ „ „ „ „) <i>new g.</i> M	„ „ „ „ „	5	1	4	948	1078	42.46	...
+ Ramsbottom (Killgate Brook) M	„ „ „ „ „	5	1	0	978	1218	47.97	...

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
SOUTH LANCASHIRE—(con.)								
3.—MERSEY—Irwell—(con.)								
† Ramsbottom (Cheesden Barn) M	J. S. Diggle, Esq., C.E....	5	1	0	997	1156	45.50	...
† " (Shuttleworth Moss) M	" " " " " "	5	0	11	1076	1188	46.77	...
" (Gt. Lodge, Higher Hill) M	" " " " " "	5	1	0	1495	1164	45.82	...
D Edensfield (Scout Moor Res.) No.1	J. Woodhead Smith, Esq., C.E.	8	1	0	1275	1024	40.32	232
D " (" " " ") No.2	" " " " " "	8	1	0	1275	1036	40.77	232
Waterfoot (Cragg Holes Res.)...	W. H. Elce, Esq., C.E....	5	1	0	1426	1306	51.42	...
D " (Cowpe Reservoir) ...	" " " " " "	5	1	0	1026	1312	51.67	232
D Rochdale (Spring Mill Whitworth)	F. H. Brunt, Esq., C.E....	5	1	7	720	1416	55.75	209
D " (Cowm, " " " ")	" " " " " "	8	1	7	760	1354	53.29	195
D† Entwistle Reservoir	Lewis Mitchell, Esq., C.E.	5	1	0	700	1299	51.13	224
Littleborough (Hollingworth Lake)	Rochdale Canal Co. ...	8	1	0	600	993	39.10	...
" (Windy Bank) ...	" " " " " "	8	2	0	605	1065	41.93	...
" (Blackstone Edge) ...	" " " " " "	8	2	0	1225	886	34.90	...
" (Canal Summit) ...	" " " " " "	8	2	0	700	981	38.61	...
" (Chelburn)	" " " " " "	8	2	0	800	1062	41.80	...
" (Byron Edge Drain)	" " " " " "	8	1	5	1250	1138	44.80	...
" (Lenches)	" " " " " "	8	2	0	806	1096	43.14	...
Walsden (Calf Lee)	" " " " " "	10	1	6	960	1015	39.97	...
" (Warland Drain)	" " " " " "	8	1	5	1250	959	37.74	...
" (Whiteholme Drain) ...	" " " " " "	8	1	5	1250	1105	43.50	...
" (Rishworth Drain)	" " " " " "	8	1	5	1200	933	36.75	...
D† Haslingden (Holden Wood) No.1	J. Woodhead Smith, Esq., C.E.	8	1	0	670	1373	54.06	217
D " (" " " ") No.2	" " " " " "	8	1	0	670	1208	47.54	217
D† " (Calf Hey) No.1	" " " " " "	8	1	0	800	1267	49.88	217
D " (" " " ") No.2	" " " " " "	8	1	0	800	1180	46.44	217
• Rawtenstall Cemetery	J. Johnston, Esq., C.E....	8	1	0	572	946	37.26	162
D† " (Cloughbottom Res.) No.1	J. Woodhead Smith, Esq., C.E.	8	1	0	1025	1234	48.59	201
D " (" " " ") No.2	" " " " " "	8	1	0	1025	1151	45.31	201
D† " (Hapton Reservoir) No.1	" " " " " "	8	1	0	930	1326	52.19	226
D " (" " " ") No.2	" " " " " "	8	1	0	930	1392	54.82	226
4.—MERSEY, UPPER. 45 sq. mi.								
D Didsbury (Linden Road)	L. G. King, Esq.	8	1	6	110	804	31.66	202
D Heaton Mersey [Stockport]	W. B. Leigh, Esq., C.E....	5	3	11	218	748	29.46	198
D Chorlton-cum-Hardy Sew. Works	G. F. Walter, Esq., C.E....	8	4	0	76	742	29.22	200
D " " " " " " " " " " " "	J. H. Casartelli, Esq., C.E....	5	2	0	75	764	30.10	189
Withington (Lady Barn Ho. Sch.)	Miss E. Burn	5	0	6	122	709	27.93	201
D Fallowfield (Platt Field Park)...	Bertram Meek, Esq., C.E....	8	3	3	124	760	29.94	204
Denton Reservoir	G. H. Hill, Esq., C.E....	12	2	0	324	753	29.65	...
Gorton "	" " " " " "	12	2	0	263	767	30.21	...
D Ashton-under-Lyne (Henrietta St. Yard)	F. J. Dixon, Esq., C.E....	7	1	0	394	1012	39.83	229
" " " " (Waterhouses)...	Great Central Rly. Co....	9	3	6	345	836	32.90	208
D Lower Swineshaw Reservoir	F. J. Dixon, Esq., C.E....	8	1	0	886	1184	46.63	229
Swineshaw Moor	" " " " " "	5	1	0	1340	1220	48.03	...
D Mossley (Manor House Yard) ...	" " " " " "	5	1	0	636	1073	42.24	208
CENTRAL LANCASHIRE. (Area, 536 sq. mi.)								
1.—RIBBLE & C. 326 sq. mi.								
† Rivington (Higher Hill)	J. R. Davidson, Esq., C.E....	8	1	4	733	1039	40.90	...
D Haslingden (Mitchells House Res.)	C. Harrison, Esq., C.E....	5	1	6	990	1266	49.84	179

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above		1916			
			Ground.	Sea Level	mm.	inches.		
CENTRAL LANCASHIRE—(con.)		in.	ft.	in.	feet.			
1.—RIBBLE & C—(con.)								
D Darwen (Sunnyhurst Hey Res.)..	E. Marsden, Esq., C.E....	8	1	8	915	1195	47.03	210
D „ (Earnsdale Reservoir)...	„ „ „ „ ..	8	1	8	705	1197	47.13	210
D „ (Sewage Works)	„ „ „ „ ..	5	1	6	460	1177	46.34	161
D „ (Bold Venture Park) ...	Dr. F. G. Haworth	8	2	4	722	1303	51.28	236
„ (Hoddlesden) No.1	J. T. Shield, Esq., C.E....	8	4	0	680	1156	45.50	199
„ „ „ „ No.2	„ „ „ „ ..	8	1	0	675	1168	46.00	199
† „ (Daisy Green) No.1	„ „ „ „ ..	8	1	0	969	1382	54.39	204
„ „ „ „ No.2	„ „ „ „ ..	8	1	0	969	1394	54.88	204
„ (Pickup Bank) No.1	„ „ „ „ ..	8	1	0	720	1136	44.73	204
„ „ „ „ No.2	„ „ „ „ ..	8	1	0	720	1154	45.42	204
D Brindle (Whiteholme)	Victor H. Gatty, Esq....	5	1	8	315	1006	39.62	197
† Blackburn (Guide Reservoir) ...	J. T. Shield, Esq., C.E....	8	1	0	650	1248	49.15	200
„ „ (Witton)	„ „ „ „ ..	8	2	6	315	1149	45.22	186
† „ „ (Corporation Park) ...	„ „ „ „ ..	8	0	6	584	1150	45.29	...
† „ „ (Pumping Station) ...	„ „ „ „ ..	8	6	0	600	1061	41.77	183
D Accrington (St. James's Vicarage)	late Rev. A. Spencer.....	8	1	6	475	1190	46.86	195
„ „ (Milnshaw Park).....	Mr. J. W. Terry	5	1	6	464	1087	42.78	205
D Hutton (Lancs C.C. Hortie. Stat.)	Dr. H. Lloyd Snape	5	1	0	82	919	36.19	208
D Penwortham Hall	Rev. T. R. Finch	5	0	9	100	981	38.63	200
Higher Walton (Bannister Hall)	A. A. Gatty, Esq.	5	0	7	75	995	39.17	...
D Preston (Corporation Offices) ...	J. H. Smethurst, Esq., C.E.	8	18	7	148	968	38.09	211
Samlesbury Sewage Works	J. T. Shield, Esq., C.E. ..	8	...	...	240	1057	41.60	212
Rishton Reservoir	Leeds & L'pool Canal Co. ...	...	...	...	467	901	35.46	...
† Causeway Side (Burnley W.W.)	W. Williamson, Esq.....	8	2	0	1116	1185	46.63	...
† Sheddin { „ „ }	„ „ „ „ ..	8	2	0	960	1187	46.74	...
† Cant Clough, S. Side { „ „ }	„ „ „ „ ..	8	2	0	900	1197	47.11	240
† „ „ „ N. Side { „ „ }	„ „ „ „ ..	8	2	0	900	1142	44.94	239
Rams Clough Head { „ „ }	„ „ „ „ ..	8	2	0	1260	1240	48.82	...
D Huncoat (Burnley Road Res.) ...	C. Harrison, Esq.	9	1	6	620	1367	53.83	196
Great Harwood (Parsonage Res.)	J. T. Shield, Esq., C.E....	...	1	6	631	1078	42.44	174
D „ „ (Dean Clough)...	C. Harrison, Esq.	12	1	6	540	1374	54.11	230
D Burnley (Queen's Park)	Dr. R. G. Markham	8	1	0	459	1133	44.62	212
„ „ (Yorkshire Street)	W. Williamson, Esq.....	8	30	0	420	1028	40.47	209
† „ „ { „ „ }..... Upper g.	„ „ „ „ ..	8	12	0	820	1261	49.63	251
† „ „ { „ „ }..... Lower g.	„ „ „ „ ..	8	2	0	745	1317	51.85	248
† „ „ (Extwistle Moor Top)...	„ „ „ „ ..	8	2	0	1310	1317	51.86	...
D „ „ (Gawthorpe Hall)	Lord Shuttleworth.....	8	0	9	316	1210	47.62	211
D „ „ (Huntroyde).....	N. G. Howsin, Esq.	5	1	0	423	1250	49.21	221
Alston Reservoir	J. H. Smethurst, Esq., C.E.	8	1	2	320	1080	42.53	...
D† Stonyhurst College	Rev. W. Sidgreaves, S.J.	8	1	10	377	1254	49.38	222
† „ „ „ „ (R) „ „ „ „	„ „ „ „ ..	11	1	10	377	1252	49.30	223
† „ „ „ „ M „ „ „ „	„ „ „ „ ..	11	1	0	376	1239	48.77	...
Knowle Green (Preston W.W.) M	J. H. Smethurst, Esq., C.E.	8	1	2	400	1193	46.98	...
Loud Scales { „ „ } M	„ „ „ „ ..	8	1	2	400	1140	44.89	...
Spade Mill { „ „ } M	„ „ „ „ ..	8	1	2	400	1128	44.42	...
Jeffrey Hill { „ „ } M	„ „ „ „ ..	8	1	2	900	1334	52.54	...
D Colne (The Rectory)	Rev. Dr. S. P. Duval ...	5	...	...	538	1252	49.30	229
D† „ „ (Cemetery Grounds) ... (R)	T. H. Hartley, Esq.	8	2	11	619	1086	42.77	196
Barrowford Reservoir	Leeds & L'pool Canal Co.	8	1	0	473	1292	50.85	...

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
CENTRAL LANCASHIRE-(con.)								
1.—RIBBLE & C—(con.)								
Foulridge (Upper Reservoir) ...	Leeds & L'pool Canal Co.	8	1	0	582	1192	46·93	...
†Clitheroe (Downham Hall)	R. C. Assheton, Esq.	10	1	6	464	1185	46·65	...
†Chatburn (Middlewood)	W. King Wilkinson, Esq.	5	1	3	363	1202	47·31	183
2.—RIBBLE—Douglas. 156 sq. mi.								
Upholland Grammar School	C. H. Cox, Esq.	5	1	0	310	923	36·34	208
Wigan W.W. (Worthington) ...	T. L. Hughes, Esq.	8	1	6	225	995	39·17	220
†Horwich (Lower Rivington) ...	J.R. Davidson, Esq., C.E.	8	1	0	440	1039	40·90	224
† „ (Lower Knoll)	„ „ „	8	1	4	742	1101	43·35	...
†Rivington (Brown Hill)	„ „ „	8	1	4	843	1074	42·30	...
† „ (Stoneshouse) ...No. 1	„ „ „	8	1	4	623	1032	40·63	219
† „ („) ...No. 2	„ „ „	8	1	4	623	1024	40·32	...
† „ (Hurst Hill).....	„ „ „	8	1	10	1029	1078	42·44	...
† „ (Great Hill).....	„ „ „	8	1	8	1240	1166	45·90	...
† „ (Coppice Stile).....	„ „ „	8	1	8	879	1043	41·07	...
† „ (Gamekeeper's)	„ „ „	8	0	8	850	1182	46·55	...
Leyland (Worden Hall)	H. Nowell Harrington, Esq.	5	1	0	125	974	38·36	217
„ („ „)	„ „ „	5	1	0	125	987	38·85	...
Wheelton	Herbert Chadwick, Esq....	5	1	3	425	989	38·95	...
†Bamber Bridge (Cuerden Hall)...	R. A. Tatton, Esq.	5	1	0	230	963	37·93	208
3.—COAST STREAMS. 52 sq. mi.								
†Scarisbrick (Pinfold Cottage) ...	J. Johnson, Esq.	5	1	0	69	838	32·99	205
Southport (Birkdale).....	J. Baxendell, Esq.	5	1	0	27	766	30·14	...
† „ (Hesketh Park)	„ „ „	5	1	0	38	796	31·33	198
† „ („ „) M.O.g.	„ „ „	8	1	0	38	798	31·42	193
† „ („ „) ... (R)	„ „ „	11	1	5	39	797	31·38	193
† „ (Lord Street Station)	Great Central Rly. Co.	9	3	6	21	720	28·33	172
„ (Forest Road)	J. H. Bonny, Esq.	5	1	6	25	758	29·84	200
4.—OUSE—Aire. 2 sq. mi.								
†Worthdale (Watersheddles Res.)	M. R. Barnett, Esq., C.E.	5	1	0	1115	1616	63·62	235
Foulridge (Canal Office)	Leeds & L'pool Canal Co.	8	1	0	497	1358	53·48	...
„ (Cragg Nook Hill) ...	„ „ „	8	1	0	690	1209	47·59	...
NORTH LANCASHIRE. (Area, 609 sq. mi.)								
1.—DUDDON & C. 77 sq. mi.								
†Barrow-in-Furness (Gas Works)	F. Chadderton, Esq.	11	1	6	36	833	32·81	186
„ „ (Sewage Works)	W. C. Persey, Esq., C.E.	5	1	0	21	1001	39·42	211
†Urswick School House	J. Dobson, Esq.	5	1	3	140	1151	45·30	210
†Bardsea School	Arthur Fox, Esq.	5	1	0	84	1196	47·08	208
Lindal (Moor Mines).....	Pennington Mining Co....	5	7	0	400	1195	47·06	207
†Ulpha	F. Chadderton, Esq.	11	1	6	251	1924	75·76	255
†Duddon Valley (Seathwaite Vic.)	Rev. C. W. Wakefield...	5	1	0	330	2020	79·52	243
„ „ („ „ Tarn)	F. Chadderton, Esq.	11	1	6	1221	2513	98·93	...
2.—LEVEN & C. 135 sq. mi.								
†Cartmel (Carke).....	late W. R. Nash, Esq....	5	1	0	76	1092	42·99	211
„ „ (Holker Hall)	Lord Richard Cavendish	5	0	9	85	1177	46·33	232
†Ulverston (Poaka Beck)	F. Chadderton, Esq.	11	1	6	512	1356	53·40	211
†Cartmel (Aynsome)	J. Stewart Remington, Esq.	8	2	0	132	1317	51·85	227
„ „ W.W. (Newton Res.) (R)	T. Huddleston, Esq., C.E.	10	1	0	586	1353	53·26	234
†Blawith Vicarage	Rev. J. B. Ditchfield.....	5	0	10	185	1539	60·60	216

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
NORTH LANCASHIRE—(con.)								
2.—LEVEN & C—(con.)								
Rusland Hall	Mrs. Archibald	5	14	0	45	1200	47.26	212
Greenodd (Pennybridge School)..	W. White, Esq.....	5	1	0	118	1525	60.05	219
D „ (Summerhill).....	J. L. Altham, Esq.....	5	4	6	241	1597	62.86	209
Graythwaite	H T Gnosspelius Esq per MO	8	1	0	185	1604	63.13	211
D Coniston (Water Park).....	Miss C. Marshall	6	1	0	165	1744	68.68	213
D†Hawkshead (Tower Bank, Sawrey)	Miss Alcock-Beck	5	2	0	342	1870	73.64	221
„ (Esthwaite Lodge).....	Miss Brown	5	0	6	224	1952	76.83	212
„ (Black Fell)	M Miss C. Marshall	5	1	6	1055	1985	78.15	...
D†Skelwith Fold [Ambleside]	„ „ „	5	1	0	333	2283	89.88	228
† „ „ [„]	„ „ „	5	1	0	333	2256	88.81	...
3.—KENT & C. 45 sq. mi.								
D Heysham Harbour	Midland Railway Co.....	5	1	6	28	882	34.73	194
D „ House.....	Miss Tomlinson	5	1	6	80	1128	44.40	253
Morecambe	Mr. T. B. Lamb, per M.O.	8	1	0	24	955	37.58	213
D Bolton-le-Sands Vicarage.....	Rev. A. R. Tomlinson....	5	1	2	70	1106	43.56	164
D Carnforth (Over Kellet)	W. Farrer, Esq.	8	1	0	192	1074	42.28	213
D Yealand Conyers (Beechfield) ...	W. E. Roper, Esq.....	5	1	0	250	1027	40.45	202
D „ „ (Morecambe Lodge)	J. Rawlinson Ford, Esq...	5	1	0	278	1153	45.39	229
D†Grange-over-Sands (Nutwood)	Miss S. M. Arkwright	5	1	0	...	1132	44.58	197
D†Cartmel Fell (The Schoolhouse)..	R. J. Cragghill, Esq.....	5	5	0	220	1467	57.76	227
4.—LUNE. 135 sq. mi.								
D†Hampson-in-Ellel	W. G. Welch, Esq.	5	1	6	145	1024	40.31	214
D†Lancaster (Bailrigg)	H. L. Storey, Esq.....	5	1	3	200	1049	41.30	228
†Quernmore (Brow Top).....	F. Hill, Esq., C.E.....	8	1	0	552	1241	48.86	228
†Bowland Forest (Higher Salter)	J. T. Sanderson, Esq.....	5	1	0	1014	1149	45.22?	...
† „ „ (Whiteray).....	„ „ „	5	1	0	1139	1652	65.02	...
„ „ (Lower Salter)..	„ „ „	5	1	0	575	1577	62.08	...
D†Lancaster (Strathspey)	A. B. S. Welch, Esq.....	5	1	0	87	1010	39.76	231
„ „ (Blea Tarn Reservoir)	F. Hill, Esq., C.E.....	8	1	0	330	1004	39.53	216
D „ „ (Greg Observatory) ...	Neville Holden, Esq.....	8	1	0	312	1112	43.76	229
„ „ (Robert Street).....	F. Hill, Esq., C.E.....	8	1	0	62	1068	42.06	219
D Caton (School House)	W. Shaw, Esq.	5	1	0	170	1204	47.42	227
D Halton Park	J. G. Wright, Esq.	5	1	1	434	1137	44.77	202
D†Wray Vicarage	Rev. C. L. Reynolds....	5	1	0	165	1252	49.28	246
D Leck Vicarage	Rev. J. Turner	5	1	1	400	1123	44.22	240
5.—WYRE & C. 213 sq. mi.								
D St. Anne's-on-the-Sea (Whitehall)	M. B. Copland, Esq.	8	1	8	20	758	29.85	204
D „ „ „	Mr. W. E. Procter	5	1	0	25	691	27.21	189
D „ „ „ (Lawrence Ho.)	C. G. D. Hoare, Esq.....	5	1	0	30	735	28.94	179
D†Weeton Reservoir	No. 1 J. Cook, Esq., C.E.	5	1	0	133	816	32.11	197
D† „ „ „	No. 3 „ „ „	5	1	0	108	799	31.46	192
D†Blackpool (Met. Observatory) ...	E. W. Rees Jones, Esq., M.D.	5	1	0	67	728	28.66	207
D Kirkham (Elswick Lodge)	L. G. King, Esq.	5	1	4	52	881	34.70	222
D Poulton-le-Fylde (Singleton Pk.)	Mr. S. Miller	8	0	11	50	1001	39.40	205
D St. Michael's-on-Wyre (Rose Cot.)	J. Moss, Esq.	5	1	0	27	836	32.93	208
D† „ „ „ Vicarage	Ven. Archdeacon Hornby	5	1	0	26	814	32.05	199
D†Fleetwood	(R) E. Frobisher, Esq.....	8	1	8	29	913	35.95	208
†Garstang (Bruna Hill)	A. Wilson, Esq.....	5	1	0	90	988	38.90	...
† „ „ (Holme Ho., Bleasdale)	„ „ „	5	1	0	650	1397	55.01	...

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more	
		Diam.	Height Above			1916			
			Ground.	Sea Level					
		in.	ft.	in.	feet.	mm.	inches.		
NORTH LANCASHIRE—(con.)									
5.—WYRE & C—(con.)									
	Garstang (Fairsnape Fell)	A. Wilson, Esq.....	5	1	0	1630	1888	74.31	...
D†	„ (Barnacre Reservoir)...	J. Cook, Esq., C.E.	5	1	0	616	1274	50.17	225
D†	„ (Grizedale Reservoir)..	„ „ „	5	1	0	517	1188	46.76	225
	„ (Calder Intake).....	„ „ „	5	1	0	632	1293	50.90	...
	„ (Grizedale Intake) ...	„ „ „	5	1	0	644	1327	52.24	...
D	Forton (Low Abbey)	Stephen Simpson, Esq. ...	5	1	6	80	1017	40.05	223
†	Wyresdale (Abbeystead Res.) ...	F. Hill, Esq., C.E.....	8	1	0	366	1370	53.94	198
D†	„ „								

DIVISION IX.—YORKSHIRE.

WEST RIDING. (Area, 2791 sq. mi.)

1.—LUNE. 178 sq. mi.								
D High Bentham	Mr. Bryan Holmes	5	1	0	412	1114	43.84	213
Ingletton (Kingsdale Head)	Mr. L. Pye	5	0	10	994	2196	86.44	...
D Hawes Junction	Mr. W. H. Bunce	5	1	0	1130	1908	75.10	241
Sedbergh (Dent Post Office)	Mr. J. Mason	5	1	0	484	2134	84.01	234
D „ (Akay)	C. E. Taylor, Esq.	5	1	0	400	1663	65.47	235
D „ (Cemetery)	Mr. J. Anderson	5	1	0	374	1626	64.03	232
D „ (Bynac)	Mrs. B. Wilson	5	1	0	480	1578	62.11	230
D „ (Howgill School)	W. Woodhead, Esq.	5	1	0	550	1598	62.90	228
2.—RIBBLE. 225 sq. mi.								
D Laneshaw Reservoir [Colne]	J. F. Bedford, Esq.	5	1	0	842	1039	40.91	198
D Barnoldswick (Rainhall Road) ..	Asa Burniston, Esq.	5	0	10	549	1054	41.51	199
† Slaidburn (Knowlmer Manor) ..	W. Peel, Esq.	5	1	0	417	1645	64.76	...
„ (Thorneyholme)	R. A. Tatton, Esq.	5	1	6	380	1637	64.45	...
„ (Hareden Brook) ... M	J. H. Smethurst, Esq., C.E.	8	1	2	540	1847	72.70	...
„ (Langden Brook) ... M	„ „ „	8	1	2	556	1856	73.05	...
„ (Whiteholme)	W. King Wilkinson, Esq.	5	1	3	475	1553	61.14	...
„ (Dunsop Houses)	J. T. Shield, Esq., C.E. ...	8	1	0	450	1774	69.84	206
„ (Middle Knoll)	„ „ „	8	2	6	1298	1690	66.53	...
„ (Brennand)	„ „ „	8	1	0	820	1688	66.45	208
„ (Whitendale)	„ „ „	8	1	0	830	2036	80.16	210
„ (Cabin Hill)	„ „ „	8	3	1	1559	1551	61.07	...
„ (Baxton Fell)	„ „ „	8	2	6	1540	1648	64.89	...
D† Settle (Gas Works)	J. W. Shepherd, Esq.	8	1	2	450	1326	52.19	243
D† „ (Giggleswick School)	P. Haswell, Esq.	8	2	0	500	1261	49.65	223
D Horton-in-Ribblesdale	Nathaniel Hunt, Esq.	5	1	0	800	1378	54.25	209
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	1279	50.35	...
D „ (Chew Mount)	„ „ „	5	1	0	1578	1476	58.13	231
„ „ („ Reservoir)	„ „ „	5	1	0	1650	1432	56.39	...
D „ (Yeoman Hey)	„ „ „	5	1	0	784	1531	60.27	227

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam. in.	Height Above Ground. SeaLevel			1916		
			ft.	in.	feet.	mm.	inches.	
WEST RIDING—(con.)								
4.—MERSEY, UPPER—(con.)								
Greenfield (Ashway Moss).....	F. J. Dixon, Esq., C.E....	5	1	0	1581	1087	42-80	...
" (Birchen Clough).....	" " " "	5	1	0	1017	1538	60-57	...
Saddleworth Station M	E. Prebble, Esq., C.E....	5	4	2	630	1019	40-12	...
Strinesdale [Oldham]	C. J. Batley, Esq., C.E....	5	4	0	815	1008	39-68	226
d Standedge(Castleshaw,Broadhead)	" " " "	8	4	6	876	1157	45-56	230
† " (" " Cudworth)	" " " "	5	4	6	1410	873	34-36?	231
† " (Redbrook Reservoir)..	E. Prebble, Esq., C.E....	8	1	6	1150	1244	48-96	...
† Denshaw (Ox Hey)	C. J. Batley, Esq., C.E....	8	4	6	1030	1186	46-68	231
d† " (New Year's Bridge)...	" " " "	8	4	0	1012	1230	48-43	231
† " (Ready Con Dean).....	" " " "	8	4	0	1414	1176	46-32	231
5.—TRENT—Derwent. 7 sq. mi.								
Derwent Dale (Abbey Brook) 65	S. B. Winsor, Esq., C.E.	5	1	0	825	1284	50-57	...
" " (Howden Clough) 64	" " " "	5	1	0	1030	1140	44-88?	...
" " (" " Ho.) 19	" " " "	8	1	0	890	1234	48-60	...
" " (Sandy Lee) No. 7	" " " "	5	1	0	1340	1284	50-54	...
6.—TRENT—Left Bank Tributaries. 143 sq. mi.								
d Doncaster (Wadworth Hall)...	Miss Ross	8	1	0	190	640	25-21	182
d† " (Carr House Hospital)	Dr. D. L. Anderson	5	1	1	40	604	23-77	166
7.—OUSE—Don. 564 sq. mi.								
d Sheffield (Millhouses)	T. Firth, Esq.....	5	1	6	355	867	34-13	197
d " (Stumperlow Hall).....	J. Dixon, Esq.	5	1	0	730	910	35-83	213
d " (" " " ").....	" " " " " "	5	1	0	770	908	35-76	208
d " W.W.(RedmiresRes.) (R)	L. S. M. Marsh, Esq., C.E.	10	5	0	1110	1156	45-53	227
" " (" " " ")weekly	" " " " " "	8	4	0	1110	1141	44-91	...
d " " (Rivelin) (R)	" " " " " "	10	4	0	564	943	37-14	210
" " (" " " ")weekly	" " " " " "	8	4	0	564	943	37-12	...
d " " (Crookes) (R)	" " " " " "	10	2	0	629	821	32-31	203
" " (" " " ")weekly	" " " " " "	8	2	0	629	822	32-36	...
d† " (Weston Park)	E. Howarth, Esq.	8	1	0	430	840	33-08	210
d Darnall (High Hazels)	" " " " " "	8	1	0	275	677	26-66	190
Sheffield (Victoria Station)	Great Central Rly. Co....	9	3	6	188	709	27-90	199
" W.W. (Broadcar) No.1	L. S. M. Marsh, Esq., C.E.	5	1	0	1004	1326	52-21	...
" " (OaksFm., Damflask)	" " " " " "	5	1	0	650	1046	41-18	...
Loxley Valley (Loftshaw, Strines)	" " " " " "	5	1	0	1011	1272	50-09	...
d " " (DaleDykeRes.) (R)	" " " " " "	10	3	0	715	1195	47-06	220
" " (" " " ")weekly	" " " " " "	8	3	0	715	1180	46-44	...
" " (Thornseat)	" " " " " "	5	1	0	1326	1184	46-61	...
" " (Rocher Flat).....	" " " " " "	5	1	0	1106	1133	44-62	...
" " (Mortimer House)	" " " " " "	5	1	0	1036	1135	44-69	...
Rotherham (Ulley Reservoir) ...	T. P. Collinge, Esq., C.E.	5	1	0	184	551	21-69	...
Sheffield (Tinsley Locks)	Great Central Rly. Co....	9	117	523	20-60	187
d Wincobank (Sewage Works) (R)	J. Haworth, Esq.	8	2	0	99	570	22-43	173
d Rotherham (Sitwell Vale).....	Mr. G. Howard	5	1	0	300	680	26-79	185
d " (Moorgate Grange)...	F. M. Watson, Esq.	5	1	0	262	735	28-95	167
" (AldwarkeSew.Wks.)	James H. Kershaw, Esq.	5	1	4	71	646	25-43	...
" (Thrybergh)	R. E. Ford, Esq., C.E. ...	8	1	0	184	663	26-12	197
d Chapeltown (Potter Hill).....	Mr. C. W. Frost	8	5	0	581	842	33-16	201
Conisborough (Firsby Reservoir)	R. E. Ford, Esq., C.E. ...	8	1	4	189	697	27-44	192
d Wentworth Woodhouse	Mr. A. Third	5	0	10	360	789	31	

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above Ground. Sea Level			1916		
		in.	ft.	in.	feet.	mm.	inches.	
WEST RIDING—(con.)								
7.—OUSE—Don—(con.)								
D Mexborough	G. Fenwick Carter Esq., C.E.	5	1	6	77	596	23·46	188
D "	John Thompson, Esq.	5	1	6	76	564	22·19	170
D Wortley	Great Central Rly. Co.	9	3	6	548	836	32·90	199
Elsecar	" " "	9	3	6	181	628	24·72	178
Langsett Moor (Catcleugh) <i>wkly</i>	L. S. M. Marsh, Esq., C.E.	8	1	6	1516	1528	60·14	...
" " (Mickleden) <i>wkly</i>	" " "	5	1	6	1217	1500	59·04	...
D " " (Upper Midhope)	" " "	8	1	6	925	1188	46·76	234
D " " (Midhope)	J. H. Taylor, Esq., C.E.	5	1	0	830	1022	40·22	219
Wortley Service Reservoir	" " "	5	1	0	700	858	33·78	203
D Little Don Val. (Underbank Res.)	L. S. M. Marsh, Esq., C.E.	8	1	6	604	1030	40·53	208
" " (Brockholes) <i>wkly</i>	" " "	5	1	6	934	1085	42·73	...
" " (Sheep House) <i>wkly</i>	" " "	5	1	6	974	1094	43·05	...
D† Little Don Valley (Bridge Lane)	" " "	8	4	9	761	1173	46·17	236
D† Langsett Moor (Flouch Road)	" " "	8	4	3	960	1235	48·61	235
" " (Fiddlers Green) <i>wkly</i>	" " "	8	1	6	1493	1595	62·78	...
" " (Border Hill) <i>wkly</i>	" " "	5	1	6	1148	1429	56·26	...
D " " (Swinden Lodge)	" " "	8	1	6	1037	1334	52·52	231
D Wath-upon-Deerne (Chapel St.)	Dr. F. J. Burman	8	2	2	188	600	23·64	185
D Bolton-upon-Deerne	T. Washington, Esq.	5	1	0	130	634	24·97	170
Worsborough	Great Central Rly. Co.	9	3	6	225	737	29·03	212
† Doncaster (Hexthorpe Hall)	H. Morris, Esq.	5	1	6	30	588	23·16	...
D " (Littlemoor Terrace)	R. F. Moate, Esq.	5	1	6	50	576	22·67	165
"	Great Central Rly. Co.	9	3	6	32	545	21·44	171
† " (Pumping Station)	R. E. Ford, Esq., C.E.	5	1	6	30	556	21·88	162
D† " (Avenue Road)	M. H. Stiles, Esq.	5	4	0	60	633	24·91	192
Dunford Bridge (Windleden)	H. Dearden, Esq., C.E.	12	2	2	1100	1361	53·58	...
" " (Dearden Res.)	" " "	12	1	6	1244	1354	53·32	...
" " Station	Great Central Rly. Co.	9	3	6	954	1351	53·20	229
D " Reservoir	H. Dearden, Esq., C.E.	12	2	0	1111	1357	53·43	228
Penistone	Great Central Rly. Co.	9	3	6	717	866	34·08	156
" (Hazlehead)	" " "	9	3	9	868	1288	50·71	211
" (Ingbirchworth Res.)	J. H. Taylor, Esq., C.E.	8	1	3	853	1195	47·03	249
Barnsley (Jordan Hill)	" " "	8	1	0	460	735	28·95	177
"	Great Central Rly. Co.	9	3	6	317	606	23·87	169
D Cawthorne (Cannon Hall)	J. H. Pardoe, Esq.	5	0	11	418	868	34·16	181
D Brodsworth Hall Gardens	Mr. F. W. Larner	5	1	0	175	671	26·41	192
D Burntwood Hall	J. Dymond, Esq.	5	1	0	378	715	28·14	179
Doncaster (Wyndthorpe)	Viscountess Chetwynd	5	0	11	13	600	23·64	...
D Kirk Bramwith	H. A. Brundell, Esq., C.E.	5	1	0	17	582	22·93	174
Hemsworth Hall	Mr. E. T. Bendall	5	1	0	250	601	23·65	166
D " Collieries	C. P. Finn, Esq.	5	1	3	246	665	26·19	188
D Ackworth School	E. Priestman, Esq.	9	1	0	125	642	25·29	180
D " (Hillthorpe)	Mrs. F. Hatchard	5	1	5	175	629	24·76	166
" (Nostell Priory)	Mr. T. L. Allison	5	4	0	200	676	26·60	...
D Womersley Park	Mr. J. Hughes	...	...	...	50	585	23·03	153
D Stapleton Gardens	Mr. W. H. Dobson	5	4	6	50	588	23·13	166
† Goole (Swinefleet)	Mr. G. Harrison	5	5	6	10	761	29·97	...
† "	A. W. Wright, Esq.	5	2	0	18	844	33·25	...

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 01 in. or more
		Diam.	Height Above Ground.		SeaLevel	1916		
		in.	ft	in.	feet.	mm.	inches.	
WEST RIDING—(con.)								
8.—OUSE—Aire—Calder. 361 sq. mi.								
D†Holmbridge (Yateholme Res.)...	J. C. Barrowclough, Esq C.E.	5	1	0	1000	1787	70·37	243
D† „ („ Farm) ..	„ „ „ „	5	1	0	861	1671	65·80	243
† „ (Holme Styes Res.)	Mr. B. T. Woodcock	7	2	0	830	1288	50·70	...
† „ (Boshaw Whams Res.)	„ „ „ „	7	2	0	930	1435	56·50	...
† „ (Bilberry Reservoir)	„ „ „ „	5	1	0	970	1645	64·76	...
†Meltham (Harden Moss)	J. W. Armitage, Esq., C.E.	8	1	2	1212	1318	51·90	...
† „ („ „) new g.	„ „ „ „	8	1	0	1212	1314	51·74	...
†Wessenden Head	„ „ „ „	8	1	0	1270	1208	47·57	...
„ „ „ „ new g.	„ „ „ „	8	1	0	1200	1404	55·27	...
† „ Old Reservoir... ..	„ „ „ „	8	1	0	940	1458	57·39	...
† „ (Butterley Moss)	„ „ „ „	8	1	0	1110	1341	52·79	...
† „ (Bobus).....	„ „ „ „	8	1	0	1200	1272	50·09	...
†Meltham (Brow Grains)	„ „ „ „	8	1	0	900	1298	51·12	...
„ (Royd Edge) <i>Glaisher g.</i>	C. L. Brook, Esq.	8	1	0	585	1475	58·06	...
„ („ „) <i>M.O. g.</i>	„ „ „ „	8	1	0	585	1443	56·81	...
D „ (Harewood Lodge).....	„ „ „ „	8	1	0	514	1337	52·65	231
† „ Grange	J. W. Armitage, Esq., C.E.	8	1	2	850	1233	48·55	...
†Marsden (Deer Hill)	„ „ „ „	8	1	0	1149	1113	43·83	...
† „ („ „) new g.	„ „ „ „	8	1	0	1149	1150	45·28	...
Wakefield (Woolley Park Gardns.)	Mr. T. Wells	5	1	0	400	723	28·48	...
D†Slaithwaite (Blackmoorfoot).....	J. W. Armitage, Esq., C.E.	8	1	0	800	1385	54·52	266
D „ (Inglewood)	J. Woodhead, Esq.	5	1	0	546	1377	54·20	253
D Huddersfield (Carr End, Dalton)	Miss A. Robson	8	1	0	350	882	34·73	207
„ (Bank Field, Golcar)	J. R. Sykes, Esq.	5	1	0	400	1095	43·12	198
D „ (Cemetery)	Mr. J. Firth	8	1	0	410	1011	39·79	211
D „ (Oakes, Longwood)	S. Morris Bower, Esq. ...	6	5	0	775	1358	53·46	191
D†Rishworth Moor (Gt. Walden Edge)	C. Clemesha Smith Esq., C.E.	5	0	10	1135	1316	51·81	231
D „ (Stott Hall)	„ „ „ „	5	1	0	935	1274	50·14	259
D† „ (Ringstone Res.)	„ „ „ „	5	1	0	990	1212	47·98	233
„ Moor (Greystones) ...	„ „ „ „	5	1	0	1175	1341	52·80	...
Soyland Moor (Summit)	„ „ „ „	5	1	0	1290	1176	46·29	...
D „ „ (Baitings Gate) ...	„ „ „ „	5	1	0	935	1399	55·08	250
„ „ (Manshead)	„ „ „ „	5	1	0	1240	1325	52·17	...
D Horbury (Durkar)	H. J. Wells, Esq.	5	1	0	140	728	28·65	168
„ (Highfields)	J. H. Green, Esq.	5	1	0	226	740	29·15	...
D „ (Addingford Hospital)	J. H. Horsfall, Esq.	8	2	0	200	688	27·08	191
D Mirfield (Cote Wall)	J. Watson-Kaye, Esq.	8	1	2	200	1034	40·72	203
D Wakefield	Dr. H. Maclean Wilson ...	8	1	0	174	649	25·56	191
D „ (Clarence Park)	C. Clemesha Smith Esq., C.E.	5	1	0	124	702	27·63	191
D† „ (Field Head Reservoir)	„ „ „ „	5	1	0	250	606	23·84	168
Elland.....	P. H. Whitwam, Esq.	8	1	0	307	1107	39·66	151
Sowerby Bridge (Brockwell, Triangle)	Mrs. MacDougall Rawson	8	1	0	500	1177	46·35	...
D „ „ (Millhouse)	„ „ „ „	6	0	8	400	1184	46·60	214
D Walsden (Ramsden Reservoir)...	F. H. Brunt, Esq., C.E.	8	1	0	993	1348	53·08	211
„ „ („ Hill)	„ „ „ „	5	1	0	1326	1262	49·70	...
D „ (Birks House)	J. P. Cockcroft, Esq.	5	1	0	550	1403	55·23	236
D Todmorden (Fielden Hospital) ...	Mr. F. Rogers	5	1	0	650	1103	43·41	201
D „ (Sourhall Hospital) ..	„ „ „ „	5	1	0	1020	1450	57·09	216
D Halifax (Hall Ings, S. Ofram) ..	Rev. G. E. Aspinall	5	0	7	750	773	30·43	224
D†Halifax (Public Library)	E. Green, Esq.	8	1	0	625	955	37·60	207

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground. Sea Level			1916		
		in.	ft.	in.	feet.	mm.	inches.	
WEST RIDING—(con.)								
8.—OUSE—Aire—Calder—(con.)								
D Batley (Staincliffe Reservoir) ...	J.C.Barrowclough, Esq. CE	5	1	0	492	767	30.21	186
D " (Woodwell Dépôt)	O. J. Kirby, Esq., C.E....	8	1	0	301	784	30.88	194
D† Ardsley Reservoir	No. 1 C.Clemesha Smith, Esq. C.E.	5	1	2	395	714	28.11	201
D " "	No. 2 " " " "	5	1	2	326	739	29.08	201
D† " (Jaw Hill Filters)	" " " "	5	1	0	315	693	27.27	188
D Cleckheaton (Whitcliffe Mount Sch)	Walton Cliffe, Esq.	5	1	0	430	786	30.96	196
Halifax W.W. (Albert)	R. J. Hartley, Esq., C.E.	5	1	0	795	1004	39.52	...
" " (Gibbet)	" " " "	5	3	9	568	1033	40.66	...
" " (Ramsden Wood)	" " " "	8	1	2	816	955	37.59	...
Hebden Bridge (Falling Royd) ..	A. R. Crossley, Esq.	4	1	0	479	1321	52.01	220
D " " (Summerfield) ..	J. Hoyle, Esq.	5	1	0	800	1202	47.32	228
Halifax W.W. (Castle Carr Lodge)	R. J. Hartley, Esq., C.E.	5	0	6	1060	1105	43.52	...
" " (Midgley Moor) M	" " " "	8	0	9	1350	1186	46.68	...
" " (Warley Moor) M	" " " "	8	1	2	1325	1085	42.70	...
" " (Ogden)	M " " " "	5	0	10	990	1152	45.36	...
" " (Ovenden Moor) M	" " " "	8	0	9	1375	1341	52.78	...
" " (Widdop)	M " " " "	5	1	3	1050	1286	50.65	...
" " (Walshaw Dean Lodge)	" " " "	5	1	0	1040	1376	54.18	...
" " (" ") ...	M " " " "	8	1	0	1380	1330	52.38	...
9.—OUSE—Aire. 504 sq. mi.								
D Pontefract (Tanshelf Drive)	T. K. Heseltine, Esq.	5	1	0	180	636	25.05	153
Pudsey (Fulneck)	Miss E. C. Lawford	5	1	0	490	816	32.13	...
D Garforth (Manor Farm)	Prof. R. S. Seton	8	1	2	194	657	25.87	184
Bradford (Grange Road, Horton)	Mr. A. E. Chilton	5	3	0	450	941	37.06	224
" (Queensbury)	R. J. Foster, Esq.	8	2	2	1050	1070	42.14	229
" (Brayshaw Reservoir) ..	J. Watson, Esq., C.E.	5	1	0	982	1015	39.96	213
D " (Lister Park)	Mr. H. Lander	8	1	0	440	969	38.14	195
" (Thornton Moor Filters)	J. Watson, Esq., C.E.	5	1	0	1218	1377	54.22	272
" (Stubden Res.) No. 8 A	" " " "	8	1	0	1075	1390	54.74	240
" (" ") No. 8 B	" " " "	8	1	0	1075	1321	52.01	240
" (" ") No. 8	" " " "	5	1	0	1071	1275	50.20	240
" (Nan Scar, Oxenhope) M	" " " "	5	1	0	1101	1351	53.20	...
" (Stairs Top, ") M	" " " "	5	1	0	1401	1332	52.42	...
" (Leeming Reservoir) M	" " " "	5	1	0	850	946	37.26	239
" (Doe Park Reservoir) ...	" " " "	8	1	0	810	1214	47.80	219
" (" " ") ...	" " " "	5	1	0	811	1143	44.99	219
" (Leeshaw Res.)	M " " " "	5	1	0	875	1374	54.11	...
" (Chellow Dean Res.) ...	" " " "	5	1	0	645	1042	41.04	231
" (" Heights Res.)	" " " "	5	1	0	848	1028	40.49	236
" (Hewenden Res.) old g.	" " " "	5	1	0	700	1208	47.55	233
" (" ") new g.	" " " "	5	1	0	701	1186	46.71	232
" (Heaton Reservoir) ...	" " " "	8	1	0	530	966	38.01	219
" (" " ") ...	" " " "	5	1	0	531	942	37.07	219
Leeds (Wortley Reservoir)	C. G. Henzell, Esq., C.E.	8	0	9	307	751	29.56	212
" (Knostrop)	" " " "	8	0	9	72	516	20.30	...
" (Holbeck W.W. Depot) ...	" " " "	8	0	9	93	697	27.43	214
D " (Museum)	H. Crowther, Esq.	10	46	0	177	664	26.16	182
" (Woodhouse Moor)	C. G. Henzell, Esq., C.E.	8	0	9	307	704	27.71	199
" (Weetwood Reservoir) No. 1	" " " "	8	0	9	328	745	29.34	200
" (" " ") No. 2	" " " "	8	0	9	328	738	29.04	200

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above		1916			
			Ground.	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
WEST RIDING—(con.)								
9.—OUSE—Aire—(con.)								
Leeds (Weetwood Garth)	Frank Gott, Esq.	5	0	10	300	725	28·56	190
„ (Gledhow Grove).....	F. J. Kitson, Esq.	5	2	0	290	726	28·58	157
„ (Allerton Hill)	T. Harding Churton, Esq.	5	0	7	418	706	27·81	...
Shipley (Cragg End).....	Leeds & L'pool Canal Co.	8	1	0	304	1010	39·75	...
D „ (Glenholme).....	M. E. Burton, Esq.	5	0	9	370	986	38·80	218
D Haworth (Harbour Lodge)	M. R. Barnett, Esq., C.E.	8	1	0	1187	1628	64·09	224
D „ (Lower Laithe Res.) ...	„ „ „	5	0	10	772	1392	54·79	245
D „ („ „ „ „) (R) ..	„ „ „	6	1	7	772	1402	55·21	243
D Oakworth (Oldfield Filters).....	„ „ „	5	1	0	1008	1299	51·14	231
Bingley (Oakwood)	H. A. Garnett, Esq.	5	1	0	525	939	36·96	...
„ (Gilstead Filters).....	J. Watson, Esq., C.E.	5	1	0	572	934	36·79	190
D Adel (Lawns Wood Cemetery) ...	Mr. S. R. Dyson.....	5	1	0	475	880	34·65	234
D Keighley (The Knowle)	P. Clough, Esq.	5	1	0	385	1028	40·49	212
„ (Victoria Park)	Mr. R. Butterfield.....	5	1	0	305	1023	40·28	213
Bingley (Sunnydale Reservoir)...	J. Watson, Esq., C.E.	5	1	0	825	986	38·84	233
D Salterforth (Barnoldswick W.W.) ..	J. W. Thompson, Esq.	8	1	4	832	1448	57·02	215
D Kelbrook (Higher Burn Hill Fm.) ..	J. E. Aldersley, Esq.	8	1	0	1050	1073	42·26	212
D Earby (Sewage Works).....	„ „ „	8	1	0	425	1109	43·65	209
D Silsden (Bolton Road)	Mr. A. Elder	5	1	0	432	1186	46·68	225
„ (Gill Grange)	J. Watson, Esq., C.E.	5	1	0	883	922	36·28	...
„ Reservoir	„ „ „	5	1	0	560	889	35·00	202
„ (Cringles Reservoir Site) ..	„ „ „	5	1	0	760	946	37·25	200
D Elslack (Moorside Farm)	J. W. Thompson, Esq.	5	0	7	835	1198	47·16	222
Carleton (Beech Hill).....	W. Cyril Empson, Esq.	8	5	3	425	1107	43·60	...
D Skipton (Sewage Works)	F. Morrison, Esq.	8	0	9	315	1030	40·56	202
D† „ (Town Hall)	A. E. W. Aldridge, Esq.	6	1	6	367	999	39·33	212
„ (Hawthorne Cottage) ...	Leeds & L'pool Canal Co.	8	1	0	380	959	37·76	...
Gargrave (Banks Hill Bank Newton) ..	„ „ „	8	1	0	545	1093	43·03	...
„ (Ray Bridge Hill)	„ „ „	8	0	10	459	1195	47·06	...
D Skipton (Embsay)	J. A. Edmondson, Esq.	5	1	0	550	956	37·65	187
D „ („ Moor Reservoir) ..	A. E. W. Aldridge, Esq.	8	1	3	670	1043	41·06	222
Winterburn (Long Hill)	Leeds & L'pool Canal Co.	8	0	9	705	1199	47·22	...
„ (Brown Hill).....	„ „ „	8	1	0	961	1350	53·16	...
D† Malham Tarn.....	Mr. John Winskill	8	1	0	1296	1618	63·72	244
D† „ „	„ „ „	5	1	0	1296	1661	65·41	244
10.—OUSE—Wharfe. 408 sq. mi.								
D Aberford (Lotherton Hall) ... (R)	Mrs. Trench Gascoigne... ..	8	1	0	200	559	22·02	175
D Saxton Vicarage.....	Rev. C. D. Ash	5	1	6	95	650	25·59	187
Adel (Eccup, South)	C. G. Henzell, Esq., C.E.	8	0	9	390	832	32·77	204
„ („ East)	„ „ „	8	0	9	375	866	34·09	205
Tadcaster (Oxton Hall)	Mr. J. Roberts	6	0	11	60	577	22·71	...
D „ (Grammar School) ...	S. Hurst, Esq.	5	0	4	50	662	26·06	170
Harewood (Arthington).....	C. G. Henzell, Esq., C.E.	8	0	9	139	973	28·32	174
„ House	Countess of Harewood....	5	0	10	300	873	34·37	158
D Otley (Sewage Works)	T. E. Davies, Esq.	5	1	0	172	809	31·84	158
D† Ilkley (Glen Rosa)	F. A. Aykroyd, Esq.	8	1	1	450	1092	42·98	189
D† „ (St. James' Road)	Miss F. Brown	5	1	0	325	1014	39·91	205
D „ (Spence's Garden)	H. West, Esq.	5	1	0	314	977	38·46	214
Wetherby (Park Hill)	W.B. Bridgeman Simpson Esq.	5	1	4	100	715	28·14	188
„ (The Vicarage)	Rev. C. A. Durrant .....	...	...	...	100	737	29·02	197

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ≥ 0.1 in. or more
		Diam.	Height Above Ground.		Sea Level	1916		
		in.	ft.	in.	feet.	mm.	inches.	
WEST RIDING—(con.)								
10.—OUSE—Wharfe—(con.)								
Leathley (Lindley Wood, S.) ...	C. G. Henzell, Esq., C.E.	8	0	9	312	942	37.07	230
" (" " N.) ...	" " "	8	0	9	320	941	37.06	230
D Ilkley (March Gill Reservoir) ...	T. E. Davies, Esq.	5	1	0	655	1135	44.68	185
D† York (Mount Villas)	Mrs. Rowntree	5	1	0	70	681	26.82	239
† " (Cherry Hill)	Messrs. H. Richardson & Co.	5	1	6	50	574	22.60	180
† " (Museum Gardens)	J. Wright, Esq., per M.O.	9	1	0	57	607	23.90	205
D " (The Retreat)	Dr. H. J. Mackenzie	5	1	0	74	608	23.92	207
" (Acomb Landing)	W. H. Humphreys, Esq. ...	5	1	0	40	564	22.19	187
Skipton (Counter Hill)	M J. Watson, Esq., C.E.	5	1	0	951	922	36.29	...
" (Chelker Reservoir) ... M	" " " " " " " " " " " "	5	1	0	730	1017	40.04	...
Fewston (Timble Ings)	C. G. Henzell, Esq., C.E.	8	0	9	912	975	38.39	217
" (" ")	" " " " " " " " " " " "	8	0	9	720	902	35.51	235
" (Swinsty, E.)	" " " " " " " " " " " "	8	0	9	460	959	37.75	220
" (" W.)	" " " " " " " " " " " "	8	0	9	425	974	38.36	220
" South	" " " " " " " " " " " "	8	0	9	525	1020	40.17	237
" North	" " " " " " " " " " " "	8	0	9	525	974	38.33	238
" (Blubberhouses)	" " " " " " " " " " " "	8	0	9	575	1061	41.78	232
Bolton Abbey Estate Office	A. Downs, Esq.	5	1	2	368	1150	45.26	237
Barden Reservoir	J. Watson, Esq., C.E.	8	1	0	746	1292	50.88	253
" " " " " " " " " " " "	" " " " " " " " " " " "	5	1	0	746	1347	53.03	253
" " Upper	" " " " " " " " " " " "	5	1	0	1250	1185	46.64	241
Burnsall (Thorpe Fell)	M " " " " " " " " " " " "	5	1	0	1661	1221	48.08	...
" (Sandbed Beck)	M " " " " " " " " " " " "	5	1	0	676	1186	46.69	...
D " Rectory	Rev. W. J. Stavert	8	4	7	503	1241	48.86	236
Grimwith Reservoir	J. Watson, Esq., C.E.	8	1	0	890	1299	51.15	233
" " " " " " " " " " " "	" " " " " " " " " " " "	5	1	0	893	1268	49.90	233
" (Trunla Hill)	" " " " " " " " " " " "	5	1	0	1201	1178	46.37	...
Hawkswick	M Harold Wager, Esq. F.R.S.	5	1	6	650	1725	67.92	...
D† Arncliffe Vicarage	Rev. J. M. B. Chaplin ...	5	1	6	732	1721	67.77	212
11.—OUSE—Nidd. 254 sq. mi.								
Spofforth (Sewage Works)	C. E. Rivers, Esq., C.E.	5	1	0	184	741	29.18	215
Wetherby (Ribston Hall)	Mr. W. Simpson	5	1	2	130	697	27.44	...
Harrogate W.W. (Ling Cottage)	A. S. West, Esq., C.E.	5	1	0	740	846	33.32	...
" " (Broad Dubb)	" " " " " " " " " " " "	5	1	0	725	903	35.54	...
" " (Cobblers Cottage) M	" " " " " " " " " " " "	5	1	0	730	842	33.17	...
" " (Ten Acres Res.)	" " " " " " " " " " " "	8	1	6	620	828	32.61	194
D " " (Scargill Res.) ...	" " " " " " " " " " " "	8	1	0	646	917	36.10	205
" " (Beaver Dyke Res.)	" " " " " " " " " " " "	8	0	11	575	929	36.56	203
" " (John o' Gaunts) M	" " " " " " " " " " " "	5	1	0	600	892	35.13	...
" " (Long Stoop) ... M	" " " " " " " " " " " "	5	1	0	700	890	35.02	...
" " (Knab's Moor) M	" " " " " " " " " " " "	5	1	0	700	853	33.60	...
D " (Harlow Moor Obsy.)	C. E. Rivers, Esq., C.E.	5	1	0	480	830	32.66	225
" " (" Hill Res.) ...	A. S. West, Esq., C.E.	8	1	0	589	759	29.88	191
" " (Irongate Bridge Res.)	" " " " " " " " " " " "	8	1	6	455	847	33.34	188
D " " (The Stray)	Mr. G. W. Gledhill	5	1	0	380	808	31.80	216
D " " (Park Parade)	" " " " " " " " " " " "	5	1	0	400	809	31.85	216
D Goldsborough Hall	Mr. R. Goodall	5	1	0	118	728	28.64	191
Knaresborough (Water Tower) ...	A. S. West, Esq., C.E.	8	1	0	240	693	27.27	206
D " (Grammar School)	C. W. H. Greaves, Esq.	5	1	0	230	721	28.38	205

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with '01 in. or more
		Diam.	Height Above Ground.		SeaLevel	1916		
		in.	ft.	in.	feet.	mm.	inches.	
WEST RIDING—(con.)								
11.—OUSE—Nidd—(con.)								
Harrogate (Bilton Sewage Works)	C. E. Rivers, Esq., C.E.	5	1	0	208	772	30·38	205
d Birstwith (Swarecliffe)	Lt.-Col. C. S. Greenwood	5	1	0	510	967	38·06	195
d Greenhow Hill (Keld House)	Harold Bruff, Esq., C.E.	5	1	0	1302	1369	53·88	232
Ramsgill (Holme Ho. Gouthwaite)	J. Watson, Esq., C.E.	5	1	0	464	1178	46·39	218
„ (Raygill House)	„ „ „	5	1	0	925	1238	48·74	199
„ „ „	„ „ „	5	1	0	450	1002	39·46	196
Nidderdale (High Riggs)	„ „ „	5	1	0	1010	1326	52·21	167
„ (East Gill Head) ... M	„ „ „	5	1	0	1710	1664	65·53	...
„ (Rain Stang)	„ „ „	5	1	0	1470	1320	51·95	...
„ (New Houses)	„ „ „	5	1	0	755	1351	53·20	190
„ (West Houses)	„ „ „	5	1	0	1150	1608	63·32	203
12.—OUSE—Ure. 110 sq. mi.								
† Dallow Moor (Harper Hill)	C.G. Henzell, Esq., C.E.	5	0	9	858	937	36·89	228
d Ripon (Studley Royal Gardens)	Marquis of Ripon	5	1	6	250	818	32·21	206
d „ (The Red House)	F. D. Wise, Esq.	5	1	0	120	728	28·66	163
† Kirkby Malzeard (Drovers' Inn)	C. G. Henzell, Esq., C.E.	8	0	9	576	1080	42·50	248
† „ „ (Hawset)	„ „ „	8	0	9	820	1076	42·37	232
„ „ (Hambleton Hill)	„ „ „	8	0	9	1106	1197	47·13	...
† „ „ (Bagwith Brae)	„ „ „	5	0	9	703	987	38·86	236
„ „ (Stone & Ears Wham)	„ „ „	8	0	9	1118	1239	48·77	...
d Ripon (High Bank, Mickley)	Miss Harrison	5	1	6	225	806	31·72	164
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	588	23·15	163
d Heslington [„]	Hon. L. de Yarburgh-Bateson	8	0	7	35	624	24·56	195
„ Vicarage [York]	Rev. Wilfrid Robinson	5	1	0	35	596	23·45	191
d Dunnington Hall [„]	Miss Hildyard	8	1	2	110	630	24·80	218
2.—OUSE—Derwent. 248 sq. mi.								
d Elvington (The Glenne)	Dr. C. A. Lower	5	1	3	35	643	25·30	223
d Warter	Mrs. J. Coxon	5	1	10	230	867	34·15	206
d Burythorpe Rectory	Rev. William Robinson	5	1	0	240	751	29·57	205
d Birdsall Gardens	Mr. J. Anderson	5	1	3	303	843	33·20	221
d Malton (The Leat House)	W. R. Innes Hopkins, Esq.	5	0	10	60	753	29·65	220
d Rillington (Scampston Hall)	Mr. F. C. Puddle	5	1	6	102	788	31·02	206
Hunmanby (Holly Bank)	Miss Ackland	5	1	2	...	701	27·59	...
3.—HUMBER—Left Bank Tributaries. 675 sq. mi.								
Pattrington (Spurn Head)	Meteorological Office	8	1	0	27	676	26·64	201
„ „	Miss H. Kirman	5	2	6	46	641	25·25	...
d Hull (Pearson Park)	H. B. Witty, Esq.	5	0	10	12	723	28·48	202
d „ (Springhead)	C. B. Newton, Esq., C.E.	5	1	0	16	715	28·16	230
d Cottingham (Water Works)	„ „ „	5	1	1	26	693	27·27	183
d Holme-upon-Spalding-Moor	C. J. Pybus, Esq.	8	1	0	35	712	28·04	192
Beverley (East Riding Asylum)	Dr. M. A. Archdale	5	1	0	175	776	30·57	200
„ (New Walk)	W. Evans, Esq., C.E.	5	3	0	38	754	29·69	227
„ (Hull Bridge)	„ „ „	5	2	6	11	696	27·38	193
d Market Weighton (Dalton Holme)	Mr. J. P. Jobling	8	6	0	150	762	30·01	202
„ „ (Cleaving Grange)	George Cobb, Esq.	5	1	6	150	794	31·25	217

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground. Sea Level			1916		
		in.	ft.	in.	feet.	mm.	inches.	
EAST RIDING—(con.)								
3.—HUMBER—Left Bank Tributaries—(con.)								
Brandesburton (Hempholm Lock)	W. Evans, Esq., C.E.....	5	2	6	11	714	28.12	212
Driffield (York Road)	W. E. Lovell, Esq.	5	1	0	76	706	27.78	156
D Lowthorpe (The Elms)	F. K. Hawes, Esq.....	5	1	0	63	709	27.92	208
4.—EAST COAST STREAMS. 171 sq. mi.								
D Bridlington	S. R. Crofts, Esq.	5	1	0	59	667	26.26	199
D Helperthorpe (West Farm)	H. D. Birdsall, Esq.	5	1	0	250	802	31.59	206
D Filey (Deepdene)	A. V. Machin, Esq.	5	0	8	44	675	26.56	198
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	1120	44.09	199
„ „ (Aurtherlands)	„ „ „	5	0	9	1237	1200	47.26	...
† „ „ (High Sour Mire)	„ „ „	5	0	9	884	965	38.00	...
„ „ (Spruce Gill)	„ „ „	5	0	9	1187	1302	51.25	...
„ „ (Leighton Res.)	„ „ „	5	0	9	634	1063	41.86	244
„ „ (Thorney Grane)	„ „ „	5	0	9	1175	1444	56.85	...
„ „ (Bracken Hill)	„ „ „	5	0	9	1450	1361	53.60	...
„ „ (Towler Hill)	„ „ „	8	0	9	820	1050	41.32	237
„ „ (Spruce Gill, East)	„ „ „	5	0	9	915	1085	42.70	...
„ „ („ „ North)	„ „ „	5	0	9	883	1046	41.19	...
† „ „ (Breary Bank)	„ „ „	5	0	9	600	1060	41.75	238
„ „ (Healey)	„ „ „	5	0	9	542	959	37.74	213
† „ „ (Low Houses)	„ „ „	5	0	9	693	1112	43.80	247
„ „ (Black Brunt)	„ „ „	5	0	9	1160	1266	49.83	...
„ „ (Brown Beck)	„ „ „	5	0	9	1150	1218	47.96	...
D „ „ (Roundhill Res.)	A. S. West, Esq., C.E....	8	1	0	743	1120	44.08	236
D Clifton Castle Gardens	Lady Cowell	5	1	0	360	789	31.07	164
D Middleham (Castle Hill)	Col. P. H. Hammond	5	1	0	470	968	38.10	220
D „ „ (The Deanery)	Rev. H. G. Topham	5	1	0	430	956	37.62	205
D West Witton (Ivy House)	J. B. Espiner, Esq.	5	1	0	606	1048	41.28	237
D Leyburn (Bolton Hall)	Mr. F. Scrivener	8	1	0	420	1028	40.48	236
Hawes (The Stone House)	H. Arden Crallan, Esq....	5	1	6	845	1573	61.92	225
2.—OUSE—Swale. 569 sq. mi.								
Husthwaite Vicarage	Rev. G. Gill	5	1	0	282	644	25.35	...
Sessay Rectory	Rev. F. Payne Gallwey	5	1	0	113	647	25.47	185
D Dalton Parsonage	Rev. G. H. Chilman	5	1	0	79	577	22.70	171
D Carlton Husthwaite	W. R. Bagley, Esq.	5	1	0	190	648	25.52	195
D Coxwold (The Old Hall)	H. Geipel, Esq.	5	1	6	260	641	25.23	162
D Baldersby (Baldersby Park)	Mr. J. E. Hathaway	10	2	0	100	632	24.87	192
D Thirsk (Spital Hill)	C. H. Gill, Esq.....	5	1	0	117	615	24.23	196
„ „ (Sowerby)	William Brown, Esq.....	5	1	0	110	614	24.16	...
D „ „ (Carlton Miniott)	J. G. Milner, Esq.....	5	1	0	90	612	24.08	181
D „ „ (Brynkellhow)	A. B. Hall, Esq.....	8	1	0	115	634	24.95	198
D Sutton Hall Gardens	Mr. J. H. Clements	5	1	0	245	752	29.61	207
D Thirsk (Stoneybrough)	T. J. Foggitt, Esq.	5	1	2	122	622	24.48	189
Felixkirk (Thirby)	A. J. Walker, Esq.	5	1	0	339	701	27.59	...
D „ „ (Mount St. John)	„ „ „	5	1	0	523	667	26.25	201
D „ „ („ „ „)	„ „ „	5	1	0	542	692	27.25	202

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground. Sea Level			1916		
		in.	ft.	in.	feet.	mm.	inches.	
NORTH RIDING—(con.)								
2.—OUSE—Swale—(con.)								
Felixkirk (Mount St. John) ... M	A. J. Walker, Esq.	5	1	10	542	661	26.04	...
D Boltby (Ravensthorpe Manor) ...	F. E. Walker, Esq.	5	1	7	661	715	28.16	202
„ East	A. J. Walker, Esq.	5	1	0	480	762	29.99	...
„ (Cliff Head)..... No. 2 M	„ „ „	5	1	4	772	686	27.00	...
„ (High Paradise) M	„ „ „	5	1	3	1144	834	32.84	...
D Bedale (Burneston Vicarage) ...	Rev. Canon J. T. Hartley	5	1	0	110	616	24.25	186
„ (Thorpe Perrow)	Mr. W. Pattison	5	1	6	140	634	24.95	...
Maunby Hall	Maj. A. Hill-Walker.....	5	1	0	90	600	23.64	...
Bedale (Park House).....	Miss M. Greenwood ...	5	1	1	180	676	26.62	220
Newby Wiske	F. Gott, Esq.	5	0	10	105	640	25.20	167
D Thornton-le-Moor	Lt.-Col. R. W. Peckitt...	5	1	0	136	609	23.98	185
D „ „ „ (Pasture Ho.)	Col. B. A. Satterthwaite...	5	1	0	225	614	24.19	194
Kepwick Vicarage.....	Rev. T. E. Parkinson ...	5	1	0	530	714	28.09	177
Scruton Hall	Rev. A. T. Coore	5	1	6	110	605	23.81	169
Swaledale (Gunnarside Lodge)...	W. M. Christy, Esq.	5	1	0	950	1550	61.02	...
Northallerton (Brompton).....	J. P. Yeoman, Esq.	5	0	6	160	692	27.25	...
D „ (Osmotherley) ..	T. Yeoman, Esq.	8	0	8	660	803	31.60	184
D „ (Harlsey Hall) ...	J. Constantine, Esq.	5	1	0	370	673	26.51	176
D Rounton Grange.....	Mr. J. Hanagan	8	1	0	249	670	26.36	214
D Richmond (Sedbury Park)	G. Gilpin Brown, Esq....	5	1	0	450	815	32.07	216
„ (Gilling West).....	G. Roper, Esq.	5	1	3	303	983	38.69	190
Middleton Tyas	J. F. B. Baker, Esq.	5	0	10	380	776	30.56	...
3.—OUSE—Left Bank Tributaries. 153 sq. mi.								
Haxby (Moorlands) (R)	E. G. Tew, Esq.	8	0	8	58	654	25.76	170
4.—OUSE—Derwent. 509 sq. mi.								
Huttons Ambo (Minster Hill) ...	J. W. Procter, Esq.	5	1	3	75	634	24.98	...
Terrington Hall.....	Mr. T. Suffield	5	1	5	300	652	25.65	198
D Malton (Broughton Rise).....	C. C. Laverack, Esq.	5	1	0	164	743	29.24	200
Hovingham Hall	Sir W. H. A. Worsley, Bt.	5	0	6	120	705	27.74	198
Ampleforth Abbey	Rev. H. de Normanville, O.S.B.	8	1	0	351	740	29.14	205
D Helmsley (Duncombe Park Gdns.)	Mr. D. Williams	5	3	0	176	770	30.33	172
D Thornton-le-Dale (Beckside) ...	Miss E. M. Priestman....	5	0	8	125	847	33.34	207
D Pickering (Hungate Hall).....	Dr. J. L. Kirk	5	1	0	90	803	31.61	238
D Seamer (Irtton Pumping Station)	W. Millhouse, Esq. C.E.	8	1	0	94	872	34.34	226
D Scarborough (Osgodby).....	„ „ „	8	1	0	166	724	28.50	177
D East Ayton Lodge... ..	Rev. R. Walker	5	0	6	175	824	32.42	218
Hawnby Rectory	Rev. W. Hughes	5	1	0	497	923	36.35	207
D Bilsdale Priory	Rev. J. Powell Parry....	5	0	6	638	968	38.10	240
5.—ESK & C. 278 sq. mi.								
D Scarborough	W. W. Larkin, Esq.	5	1	0	105	731	28.78	179
„ (Scalby Road)	Rev. J. G. B. Knight....	5	0	9	...	736	28.96	182
D „ („)	Mrs. J. W. Rowntree....	5	0	11	300	882	34.72	184
D „ („ St. Philips)	Rev. W. E. Stewart	5	1	0	130	786	30.93	211
Goathland (Thwaitefield)	Lewis G. Rowland, Esq...	5	0	6	485	787	31.00	...
D Glaisdale (The Gables Gardens)..	Mr. H. Hope	5	0	9	400	942	37.07	192
D Sleights (Brook Park)	E. Isle Hubbard, Esq....	5	1	0	80	742	29.22	204
D Whitby (Park Hall, Aislaby) ...	Rev. J. H. Richardson....	5	1	0	500	780	30.73	218
D „ (Ocean Road)	T. W. Parkinson, Esq....	8	1	0	125	673	26.50	202
D „ (Mulgrave Castle)	Mr. J. Corbett	5	1	0	410	775	30.51	227

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground.		Sea Level	1916		
		in.	ft.	in.	feet.	mm.	inches.	
NORTH RIDING—(con.)								
5.—ESK & C—(con.)								
D Guisborough (Lockwood Beck Res)	W. M. I'Anson, Esq., C.E.	8	1	0	632	927	36·50	201
" " " " " " M	" " " " " "	8	1	0	632	890	35·04	...
D Skelton-in-Cleveland Rectory	Rev. H. Mackworth Drake	5	3	0	300	701	27·61	187
D Saltburn-by-the-Sea (Skelton Castle)	W.H.A. Wharton, Esq....	5	0	9	272	812	31·99	214
6.—TEES. 373 sq. mi.								
D Ingleby Manor	Lord De L'Isle	5	0	11	460	891	35·09	196
" Greenhow Vicarage	Rev. M. A. Horsfall	5	1	6	420	892	35·11	190
D " " (The School House)	P. Huntington, Esq.....	5	1	0	430	841	33·12	210
D Croft (Dalton-on-Tees)	Mr. W. Wrather	8	2	0	170	670	26·38	190
Hutton Magna Vicarage	Rev. A. W. M. Close.....	5	0	4	450	972	38·28	198
D Kildale Hall	Major R. B. Turton	5	1	2	600	996	39·23	225
Stokesley (Seamer)	J. Pounder, Esq.	5	1	4	315	682	26·87	154
D Middlesbrough (Ormesby)	W. Stewart Tailyour, Esq.	5	1	0	100	713	28·06	213
D " (Albert Park)	J. M. Parnaby, Esq.	8	1	0	30	650	25·57	192
Baldersdale (Blackton Reservoir)	Hugh Wilson, Esq.	5	1	0	935	1295	51·00	...
" (Balderhead)	M " " " "	5	1	0	1360	1359	53·50	...
D† " (Hury Reservoir)	" " " " "	5	1	0	866	1035	40·74	213
Lunedale (Lunehead)	M " " " "	5	1	0	1450	1765	69·50	...
" (Selset)	M " " " "	5	1	0	924	1247	49·10	...
D† " (Grassholme Reservoir)	" " " " "	5	1	0	936	1220	48·03	212
† Mickleton (Lime Kiln Pasture) M	Mr. J. Harvey	8	1	0	1175	1192	46·93	...

DIVISION X.—NORTHERN COUNTIES.

DURHAM. (Area, 1011 sq. mi.)

1.—TEES & C. 396 sq. mi.								
Darlington (Public Park)	North Star	5	1	0	150	632	24·89	186
D " (Cleveland Parade)	late W. W. Willmott, Esq.	5	1	3	160	693	27·29	198
D " (Hummersknott)	Mr. J. Short	5	1	0	200	719	28·29	157
Piercebridge (Carlbury Hall)	J. H. Pease, Esq.	5	1	0	235	701	27·61	...
" " " " " "	" " " " " "	5	1	0	222	699	27·51	...
D† Barnard Castle (County School)	R. C. Hitchcock, Esq.	5	1	6	540	897	35·32	214
D Stockton (Ropner Park)	W. A. Jenkins, Esq.	5	1	9	61	556	21·87	162
D Sedgfield (Hardwick Hall)	Viscountess Boyne	5	0	3	400	734	28·89	195
D Hurworth Burn (Crookfoot Res.)	A. W. Branson, Esq., C.E.	10	1	6	293	744	29·30	209
D West Hartlepool (Lynn Street)	Mr. H. Lamb	5	65	0	84	867	34·14	200
D " " (Water Works)	A. W. Branson, Esq., C.E.	10	1	0	35	763	30·05	196
D Hurworth Burn Reservoir	" " " "	10	1	0	357	682	26·86	179
D Hartlepool (Hart Reservoir)	" " " "	10	1	0	172	673	26·50	191
Seaham (Dalton Pumping Sta.)	A. B. E. Blackburn, Esq.	8	1	0	345	755	29·72	204
2.—WEAR. 464 sq. mi.								
Wolsingham (Dryderdale)	Mr. G. Cranston	5	1	0	700	941	37·03	190
D Willington Rectory	Rev. Canon T. Urmson	5	1	0	285	781	30·75	190
D Wolsingham (Croft House)	H. Stohbs, Esq.	5	1	0	464	905	35·63	182
D Stanhope (Parson Byer's Quarry)	Messrs. Bell, Bros., Ltd.	5	6	8	846	998	39·29	173
D Wearhead Station	Mr. R. Rust	5	0	6	1104	1646	64·79	223
Durham Observatory	F C H Carpenter Esq. per mo	12	4	0	336	692	27·26	202

DIVISION X.—NORTHERN COUNTIES—(continued).

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DIVISION X.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground.			1916		
NORTHUMBERLAND—(con.)								
4.—NORTH TYNE. 433 sq. mi.								
D Humshaugh (Wester Hall)	Miss Gandy	5	1	3	268	945	37.19	194
N. Tyne (Green Crag) (Newcastle W.W.)	A. L. Forster, Esq., C.E....	5	1	6	896	975	38.39	...
Hallington Village (,, ,,)	,, ,, ,,	5	1	0	467	975	38.39	...
,, Reservoirs (,, ,,)	,, ,, ,,	5	1	0	470	929	36.57	222
,, (Fawcett) (,, ,,)	,, ,, ,,	5	1	2	537	910	35.81	...
,, (Cheviot) (,, ,,)	,, ,, ,,	5	1	2	576	895	35.25	...
Gunnerton Burn (Camphill) (,, ,,)	,, ,, ,,	5	1	1	650	1008	39.70	...
Colt Crag (,, ,,)	,, ,, ,,	5	1	0	654	883	34.76	214
D Bellingham (High Green Manor)	Sir C. Morrison-Bell, Bt....	5	1	0	849	1246	49.02	260
D Otterburn Tower	Howard Pease, Esq.	5	1	2	450	1071	42.17	195
D ,, (Horsley Vicarage) ...	Miss M. Stephens	5	1	2	700	1112	43.79	214
Redewater (Catcleugh)	A. L. Forster, Esq., C.E....	5	1	0	819	1443	56.80	248
5.—COQUET & C. 840 sq. mi.								
Whittington (Newcastle W.W.)	A. L. Forster, Esq., C.E....	8	0	9	528	948	37.33	...
Burnside (,, ,,)	,, ,, ,,	5	0	9	419	831	32.72	...
Ryal Cottage (,, ,,)	,, ,, ,,	10	0	9	463	879	34.62	...
D† Morpeth (Bothalhaugh Garden) ..	Hon. & Rev. W. C. Ellis ..	5	1	10	35	775	30.50	228
† ,, (,, ,,) M	,, ,, ,, ,,	5	1	10	35	787	30.99	...
D† ,, (,, ,, Lawn)	,, ,, ,, ,,	5	1	10	137	758	29.85	238
† ,, (,, ,,) M	,, ,, ,, ,,	5	1	10	137	782	30.78	...
,, (Ashington)	W. Wilson, Esq.	5	1	0	110	719	28.29	189
D ,, (Cockle Park) ..	J. D. Higginbotham, Esq....	8	1	0	325	817	32.17	219
D† Font Res. (Tynemouth W.W.) ..	J. W. McKerrow, Esq....	10	1	0	614	987	38.86	231
D† Acklington (Broomhill Colliery)	Broomhill Collieries, Ltd.	5	7	0	92	757	29.81	192
† Rothbury (Brinkburn Priory) ...	Mrs. Hugh Fenwick	8	1	2	257	967	38.07	...
D† ,, (Crag-side)	Mr. H. Hudson	8	1	0	405	982	38.64	186
D Felton (Newton-on-the-Moor) ...	J. A. Charlton, Esq.	5	1	6	500	905	35.62	197
Alnwick Castle	Mr. R. Kyle, per M.O.	8	0	4	181	950	37.41	214
D Howick Hall	Earl Grey, G.C.B., G.C.V.O.	8	0	10	120	874	34.43	174
Bamburgh	T. W. Little, Esq.	5	1	0	75	756	29.77	...
Beal (Lowlynn)	H. L. Pattinson, Esq. ....	...	1	10	200	936	36.85	...
6.—TWEED. 262 sq. mi.								
D Glanton (Glanton Pyke Gardens)	Mr. J. Henderson	8	4	2	521	1054	41.48	225
D Ilderton (Lilburn Tower)	A. B. Collingwood, Esq....	10	6	0	300	985	38.78	216
D ,, (,, Cottage)	N. D. Cowans, Esq.	5	1	0	340	1010	39.76	227
Wooler (St. Ninians)	Dr. R. Walker	8	0	10	176	1216	47.86	...
,, (Victoria House)	Miss E. M. Dodds	5	1	0	176	895	35.25	..
,, (The Thirlings)	Col. J. M. W. Anderson...	5	1	6	...	1053	41.47	...
Doddington Vicarage)	Rev. J. G. Shotton	8	1	6	140	886	34.88	...
D Pawston [Coldstream]	B. P. Selby, Esq.	5	1	0	327	1069	42.09	211
Ford Castle Gardens	Mr. J. Jackson	5	3	0	220	1141	44.93	164
7.—INSULAR. 1 sq. mi.								
CUMBERLAND. (Area, 1516 sq. mi.)								
1.—EDEN & SOLWAY. 887 sq. mi.								
Ullswater (Hallsteads)	Mr. J. Grant	5	2	0	497	1705	67.11	213
D Watermillock (Mell Fell House)	Mrs. Spring-Rice	5	1	0	980	1494	58.83	197

DIVISION X.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground. SeaLevel			1916		
		in.	ft.	in.	feet.	mm.	inches.	
CUMBERLAND—(con.)								
1.—EDEN & SOLWAY—(con.)								
D Penrith (Fell Lane)	H. Lester, Esq.	5	1	0	575	1033	40·68	205
D „ (Benson House)	A. B. Sinclair, Esq.	5	0	8	480	1120	44·11	205
„ (Newton Rigg)	W. T. Lawrence Esq. <i>per M.O.</i>	8	1	0	559	1097	43·18	223
„ (Greystoke Castle)	J. Smith Hill, Esq.	5	1	3	650	1252	49·28	...
D „ (Ennim)	Mrs. Hamlet Riley	8	0	6	660	1179	46·40	188
Uldale (Chapel House Reservoir)	J. Ferguson, Esq.	8	1	0	600	1392	54·80	204
D Penrith (Nunwick Hall)	Mrs. Heywood Thompson	5	1	0	278	940	37·01	204
D Renwick (Ravenwood)	W. Salkeld, Esq.	5	2	0	680	1328	52·29	212
D Wigton (Brookfield)	J. Ransom Marsh, Esq.	5	1	6	124	974	38·33	229
„ (Woodlands)	„ „ „ „ „ „	...	1	0	...	1084	42·67	...
D „ (Dacre House)	J. H. Walker, Esq.	5	4	6	134	1016	40·00	207
D Wreay Vicarage	Rev. Canon A. R. Hall	5	2	0	310	937	36·90	211
D Geltsdale	H. C. Marks, Esq., C.E.	5	1	2	778	1152	45·35	246
D Carlisle (Spital Cemetery)	J. T. Charlton, Esq.	8	1	0	115	985	38·77	227
„ (Denton Holme)	W. Eggleston, Esq.	5	2	0	57	851	33·51	...
„ (Stanwix)	Sir Benjamin Scott	8	1	6	100	952	37·47	203
D „ (Newby Grange)	T. H. Hodgson, Esq.	5	0	8	64	884	34·82	234
„ (Scaleby Hall)	Sir R. A. Allison, <i>per M.O.</i>	5	1	0	112	1030	40·54	247
D Penton (Warwickland School) ..	W. Roden, Esq.	5	1	0	360	1143	45·01	208
2.—DERWENT. 257 sq. mi.								
Sprinkling Tarn	M Dr. H. R. Mill	5	1	6	1985	4339	170·82	...
Styehead Tarn	M „ „ „	4	0	6	1472	4028	158·60	...
† The Stye B	M „ „ „	4	1	0	1077	5038	198·35	...
„ B <i>Seathwaite g.M.</i>	M „ „ „	5	1	6	1070	5049	198·77	...
† „ C	M „ „ „	4	1	0	1077	5079	199·95	...
† „ D	M „ „ „	4	1	0	1077	4157	163·65	...
† Borrowdale (Seathwaite)	M „ „ „	4	0	6	422	3619	142·47	...
† „ („) <i>weekly</i>	„ „ „	5	1	0	422	3401	133·90	...
† „ („)	„ „ „	5	1	0	423	3600	141·75	...
Ullscarf	M G. H. Hill, Esq., C.E.	7	1	8	2100	3231	127·20	...
Helvellyn (Birkside)	M „ „ „	7	1	3	1900	2314	91·10	...
Wythburn	M „ „ „	7	1	4	610	2675	105·30	...
† Borrowdale (Rosthwaite)	Miss C. Marshall	5	0	9	...	2792	109·92	...
Buttermere (Hassness)	„ „ „	5	1	0	355	3085	121·44	226
D† Borrowdale (Grange)	Mr. J. Threlkeld	5	0	9	271	2444	96·22	177
Armboth Fells (The Pewitts)	G. H. Hill, Esq., C.E.	7	1	6	1650	2327	91·60	...
Helvellyn (Whiteside)	„ „ „	7	1	6	2100	2032	80·00	...
Thirlmere (Dale Head Hall)	„ „ „	7	1	5	620	2322	91·40	...
D Keswick (Derwent Island) <i>old g.</i>	Miss C. Marshall	5	0	7	280	1799	70·83	250
D „ („ „) <i>new g.</i>	„ „ „	5	0	6	290	1750	68·90	250
D „ (Castlerigg Manor)	„ „ „	7	1	11	675	1816	71·48	251
D† „ (The Bank)	Mr. A. Campbell	5	1	6	265	1695	66·74	243
D† „ (Crosthwaite School)	H. Swinburn, Esq.	5	1	0	254	1631	64·22	244
D „ (Mirehouse)	Miss Spedding	5	1	1	320	1490	58·65	238
Dean School	A. McClellan, Esq.	5	1	6	360	1268	49·94	189
Cockermouth (Whinfell Hall)	W. Peile, Esq.	5	0	1	255	1554	61·16	...
D „ (Lorton Hall)	Sir J. T. Hutchinson	5	1	0	270	1572	61·89	221
„ (Brandlingill)	Mrs. Sewell	5	1	0	320	1821	71·69	180
D „ (Derwent Lodge)	Wilfrid Irwin, Esq.	5	4	6	220	1105	43·50	220

DIVISION X.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Diam.	Rain Gauge.		Depth of Rain.		Days with 0·1 in. or more	
			Height Above Ground.	Sea Level	1916			
		in.	ft.	in.	feet.	mm.	inches.	
CUMBERLAND—(con.)								
2.—DERWENT—(con.)								
D Threlkeld (Blencathra Sanatorium.)	Dr. W. Goodchild	5	1	0	885	2007	79·03	239
Camerton Vicarage	Rev. E. C. Bennett	5	1	0	200	1106	43·56	...
Bassenthwaite (Higham)	Joseph Fisher, Esq.	5	0	9	500	1326	52·21	205
3.—WEST COAST STREAMS. 235 sq. mi.								
D Ravenglass (Newtown)	G. L. McKelvie, Esq. ...	5	1	6	130	1095	43·12	172
„ (The Grove)	Miss C. Marshall	5	2	8	77	1111	43·74	201
D Eskdale Green (Gatehouse)	J. W. Rainbow, Esq. ...	5	1	0	130	1468	57·81	237
Beckfoot	Miss C. Marshall	5	1	0	180	1526	60·08	199
D Seascale (Whinthwaite)	Dr. R. Hellon	5	1	0	52	1015	39·97	180
Netherwasdale Vicarage	Rev. J. Hodgson	5	1	0	182	1561	61·47	188
Braystones	H. H. Watson, Esq.	10	3	6	36	998	39·31	...
D Egremont (The Grange)	J. Sherwen, Esq.	8	1	0	351	1338	52·67	217
Cleator Moor W.W. (Dent Res.)	R. Robertson, Esq., C.E.	5	1	0	395	1458	57·39	173
D Whitehaven (Scragill Reservoir)	E. E. Stiven, Esq., C.E....	8	1	0	188	1084	42·67	208
D „ (Irish Street)	Dr. Eldon Pratt	5	1	1	21	1195	47·03	223
Distington (Gilgarran)	Mr. A. Kydd	5	4	9	470	1187	46·72	201
D Workington (Winscales House) ..	J. A. Trench, Esq.	5	1	6	440	1033	40·67	211
4.—DUDDON & C. 50 sq. mi.								
5.—SOUTH TYNE. 87 sq. mi.								
D Alston (Nenthead)	Caldwell Harpur, Esq....	8	2	6	1463	2071	81·54	216
„ (Samuel King's School)	J. G. McIntosh, Esq.	5	1	0	1060	1645	64·77	250
WESTMORLAND. (Area, 783 sq. mi.)								
1.—EDEN. 373 sq. mi.								
Ravenstonedale (The Chantry) ..	Miss D. V. Highmoor ...	5	1	11	900	1453	57·22	241
D Kirkby Stephen (Redman House)	Mrs. T. Mason	5	1	0	574	1273	50·12	217
Hayes Water	No. 3 late Baldwin Latham, Esq.	5	1	0	2600	2812	110·70	...
„ „ (High Street) No. 2	„ „ „	5	1	0	2000	2842	111·90	...
„ „ „ No. 1	„ „ „	5	1	0	1750	2952	116·20	...
Grizedale (Ruthwaite Lodge) ...	Miss C. Marshall	8	1	6	1750	3080	121·27	...
Patterdale Hall	„ „ „	5	1	3	490	2671	105·16	240
„ (Greenside Mine)	W. H. Borlase, Esq.	7	1	6	1000	2432	95·74	...
D Appleby (Castle Bank)	C. R. Rivington, Esq.	5	1	2	440	1110	43·68	240
Ullswater (Sharrow Bay)	Mr. G. Robinson	5	0	7	600	1281	50·43	...
D Great Strickland (Greencroft) ...	Mrs. Whiteside	5	2	0	648	1207	47·51	244
D Morland [Penrith]	Miss M. F. Markham	5	1	0	456	1053	41·47	228
2.—LEVEN. 60 sq. mi.								
† Bowness (Lindeth Howe)	Captain F. G. Senior	5	1	0	250	1794	70·64	219
D „ (Dawstone)	A. M. Sing, Esq.	5	1	2	550	1810	71·26	237
D† „ (Fallbarrow)	Miss E. F. Rawson	8	1	0	155	1763	69·42	213
D Windermere (Council House) ...	C. E. Hines, Esq.	5	1	0	364	1774	69·84	232
D† „ (Hammar Bank) ...	H. Coutts, Esq.	5	1	0	290	1732	68·17	243
D† Bowness (Fellside)	T. D. Lingard, Esq.	5	0	6	310	1837	72·34	222
D† Windermere (Holehird)	W. G. Groves, Esq.	5	1	0	483	1908	75·11	239
D† „ (Brockhole)	W. Gaddum, Esq.	5	1	6	175	1884	74·17	238
D† Ambleside (Wansfell)	Miss C. Marshall	8	1	0	150	2028	79·83	240
D† „ (Skelwith Bridge) ...	A. J. Adams, Esq.	5	1	9	190	2381	93·73	220
Little Langdale (Fell Foot) ...M	Miss C. Marshall	5	2	2	380	3029	119·26	...

DIVISION X.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground.			1916		
		in.	ft.	in.	feet.	mm.	inches.	
WESTMORLAND—(con.)								
2.—LEVEN—(con.)								
D† Ambleside (White Craggs)	C. H. Hough, Esq.....	5	2	4	252	2048	80·65	243
D „ (Gale House)	G. A. Johnston, Esq., M.D.	5	1	0	180	2110	83·06	239
D „ (Loughrigg Brow) ...	I. H. Storey, Esq.....	5	1	0	279	2164	85·21	249
D „ (Lesketh How).....	Miss Benson	5	2	6	175	2251	88·63	256
D „ (Brent Knoll)	A. E. Huddlestons, Esq...	5	1	0	175	2042	80·39	240
Elterwater Hall	Miss C. Marshall	5	1	1	200	2305	90·75	...
† Rydal (The Stepping Stones) ...	Gordon Wordsworth, Esq.	5	1	0	190	2282	89·85	245
† „ („ „ „) M	„ „ „	5	1	3	190	2264	89·14	...
† Loughrigg Fell ... Gauge A. M	„ „ „	5	1	3	690	2060	81·09	...
D Rydal	Miss M. Yates	5	0	7	390	2200	86·60	235
D „ (High Close)	F. E. T. Jones Balme, Esq.	8	0	9	553	2286	90·01	217
D „ (Silverthwaite)..... No. 1	Miss A. Sharp	5	1	0	292	1956	76·99	217
D† Dungeon Ghyll	Miss C. Marshall	5	1	0	310	3184	125·33	251
† „ „ „ „ M	„ „ „	5	1	0	311	3221	126·82	...
† Mickleden	„ „ „	5	1	6	490	4362	171·74	...
D Grasmere (The Wray)	Miss G. M. Simpson	5	1	0	221	2618	103·08	246
3.—KENT. 188 sq. mi.								
D Heversham (Plumtree Hall).....	T. Carrick Watson, Esq.	5	0	8	115	1254	49·35	230
D „ (Leasgill)	T. A. Argles, Esq.....	5	0	8	130	1118	44·01	226
D Kendal (Crosthwaite Vicarage)...	Rev. T. Heelis	5	1	0	200	1488	58·59	213
D „ (Vicarage Terrace)	Mrs. Braithwaite	8	0	6	160	1371	53·99	227
D† „ (Holmercroft)	R. Rhodes, Esq.....	5	1	3	176	1431	56·35	229
† „ (Birchfield)	H. W. Baron, Esq.....	5	1	6	175	1471	57·91	215
D† „ (Low Slack)	A. W. Wilson, Esq.	5	1	0	350	1398	55·06	209
† „ (Ellergreen)	C. J. Cropper, Esq.	5	1	6	270	1608	63·30	229
„ (Potter Fell).....	Messrs. J. Cropper & Co. Ltd.	...	0	4	800	1852	72·94	154
Long Sleddale (Low House)... M	A. Wilson, Esq.	5	1	0	550	1904	74·95	...
4.—LUNE. 122 sq. mi.								
Kirkby Lonsdale	J. R. Picard, Esq.....	7	0	8	215	1349	53·12	...
D „ „ (Casterton).....	R. A. Clarke, Esq.....	8	1	0	305	1367	53·81	247
D „ „ („ „).....	Miss Williams	5	1	6	320	1320	51·97	237
Barbon (Underfell)	Miss C. E. Wilson	5	1	5	405	1332	52·43	234
D „ Manor	Lord Shuttleworth	5	1	3	650	1377	54·21	191
D „	W. Wilkinson, Esq.	5	1	0	310	1397	55·01	190
D Orton	Michael Scott, Esq.	5	1	0	770	1709	67·27	237
5.—TEES. 40 sq. mi.								

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS.

MONMOUTH. (Area, 534 sq. mi.)

1.—RHYMNEY. 39 sq. mi.

D Rumney (Witla Court)	Mr. J. F. Matthyssens....	5	1	3	168	1117	43·97	169
D Marshfield Vicarage	Rev. H. G. Stanley	5	1	1	50	1092	42·99	193

2.—EBBW. 88 sq. mi.

D Newport (Tredegar Park)	Mr. J. Bone	5	0	10	0	1202	47·32	190
D Rogerstone (Brynheddyd)	C. E. Forestier-Walker Esq	5	0	8	333	1236	48·66	181

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	1916		
			in.	ft.		in.	feet.		mm.	inches.
MONMOUTH—(con.)								
2.—EBBW—(con.)								
D Rogerstone (Rhiwderin)	L. Forestier-Walker, Esq.	5	1	3	259	1193	46·96	192
D Abertillery (The Park)	S. E. Thomas, Esq.	5	1	0	700	1601	63·02	209
D „ (Cwmtilerry)	W. Y. Hobkirk, Esq.	5	1	0	970	1606	63·24	215
D Tredegar Laboratory	W. Morgan, Esq.	5	1	3	950	1595	62·78	218
D „ (Redesdale)	D. W. Davies, Esq.	5	1	6	963	1217	47·91	216
D Ebbw Vale (Iron Works)	D. S. Whitehead, Esq. ...	8	1	0	902	1594	62·76	216
D Nant-y-bwch (Shon Sheffrey's Well)	D. W. Davies, Esq.	5	1	5	1204	1439	56·64	213
3.—USK & C. 290 sq. mi.								
Goldcliff (Porton)	Blethyn T. Rees, Esq., C.E.	5	1	3	27	818	32·21	168
Portskewett (Sudbrook)	H. V. Woodward, Esq. C.E.	8	0	10	22	962	37·86	...
D† Newport W. W. (Friar Street Yard)	Newport Corporation	5	6	0	32	1207	47·53	200
† „ „ (Ynis-y-fro Res.) <i>old g.</i>	„ „	5	1	0	130	1183	46·57	221
† „ „ („ „) <i>new g.</i>	„ „	5	1	0	130	1256	49·47	...
D† „ „ (Pant-y-reos Res.)	„ „	5	1	0	435	1520	59·85	231
„ „ (Llanshowel Farm)	„ „	5	1	0	275	1389	54·68	...
„ „ (Ty-trappa Farm)	„ „	5	1	0	550	1519	59·79	...
D† „ „ (Llanvaches)	„ „	5	0	10	456	1130	44·50	204
D „ „ (Nantypridd, Wentwood)	„ „	5	1	0	500	1161	45·71	202
D Chepstow (Itton Court)	E. Curre, Esq.	5	1	0	390	1019	40·11	196
D Llanfrechfa Grange	Brig.-Gen. W. F. Cleeve	5	4	0	326	1225	48·22	184
D† Newport W. W. (Newchurch) ...	Newport Corporation	5	1	0	550	1204	47·38	202
D Usk (Castle Parade House)	J. Maitland Watkins, Esq.	5	1	0	75	1049	41·31	172
Devauden (Tredean)	W. W. Hood, Esq., C.E. ...	5	3	6	700	979	38·55	184
Griffithstown (Shirley)	T. P. Holmes Watkins, Esq.	5	1	0	473	1364	53·69	201
Abersychan (Glansychan)	W. P. James, Esq., <i>per</i> M.O.	5	1	0	699	1622	63·85	229
Bettws Newydd (Brynderwen) ...	E. H. M. Luckcock, Esq. ...	5	1	0	136	1080	42·52	176
Blaenavon (Estate Office)	H. G. Steel, Esq.	8	4	6	1150	1451	57·12	...
D Abergavenny	F. Mansfield, Esq.	5	1	0	194	1070	42·13	167
D „ (Larchfield)	Dr. N. R. Phillips	5	1	0	240	963	37·92	181
D† „ (The Chain)	W. Baker Gabb, Esq.	5	1	3	310	1044	41·10	198
D† Grwyne Fawr (Coed Dias)	„ „ „	5	1	0	900	1247	49·09	215
4.—WYE. 117 sq. mi.								
Chepstow (The Cedars)	J. E. G. Lawrence, Esq.	5	2	0	150	1043	41·07	175
D „ (Piercefield Park)	H. Clay, Esq.	5	1	6	310	1025	40·36	177
Tintern	J. Roberts, Esq., <i>per</i> M.O.	...	...	...	99	1149	45·24	215
Monmouth (The Elms)	Mrs. Hall	5	1	1	91	830	32·68	...
D „ (The Hendre)	Mr. T. Coomber	8	1	0	176	803	31·62	186
D „ (Pentwyn)	Rev. Canon J. Harding ...	5	1	0	191	917	36·09	190
Llantilio Court	Sir H. Mather-Jackson, Bt.	5	0	11	231	757	29·79?	152
GLAMORGAN. (Area, 808 sq. mi.)								
1.—LOUGHOR. 55 sq. mi.								
D Gorseinon (Penllergaer)	Sir J. T. D. Llewelyn, Bt.	5	3	0	240	1329	52·32	226
D Felindre (Lower Lliw Reservoir)	R. H. Wyrill, Esq., C.E.	8	1	3	426	1364	53·69	221
D „ (Upper „ „)	„ „ „	8	1	0	610	1682	66·22	239
2.—GOWER PENINSULA. 62 sq. mi.								
D Penmaen (Cefn Mor)	Capt. R. A. Bostock	5	1	5	300	1121	44·15	195
Mumbles (Bristol Ch. Yacht Club)	A. Whitman, Esq.	5	1	0	20	929	36·56	184
D Swansea (Killay House)	Mrs. M. B. Williams	5	0	6	265	1269	49·95	217

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

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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			1916		
		in.	ft.	in.	feet.	mm.	inches.	
GLAMORGAN—(con.)								
6.—TAFF—(con.)								
Merthyr Tydfil (Penbryn Filters) M	T. F. Harvey, Esq., C.E.	5	1	0	936	1491	58.69	...
D Dowlais (Gwernllwyn)	R. C. Harrison, Esq.	5	1	6	1071	1441	56.72	213
7.—RHYMNEY. 55 sq. mi.								
D Cardiff (Roath Park)	Mr. A. A. Pettigrew	5	0	9	49	1193	46.97	198
D† „ (Penylan)	E. Walford, Esq., M.D.	5	1	0	204	1203	47.36	209
D „ (New Filters, Heath) ...	C. H. Priestley, Esq., C.E.	5	1	0	132	1213	47.75	219
D Llanishen Reservoir	„ „ „	5	1	0	155	1135	44.70	205
D Lisvane Reservoir	„ „ „	5	1	0	150	1066	41.95	201
Caerphilly (Deneholme)	J. Prosser-Jones, Esq., C.E.	8	1	0	400	1439	56.66	...
Rhymer Bridge Reservoir ... M	„ „ „	5	1	0	1098	1558	61.34	...
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	1150	45.26	182
Llanddarog (Lletherllestry)	H. L. Puxley, Esq.	4	1	0	242	1367	53.81	231
D Carmarthen (The Friary)	L. M. Bowen-Jones, Esq.	5	1	5	62	1300	51.18	244
† Llandilo (Golden Grove Gardens)	Mr. F. Surman	6	1	6	125	1556	61.28	200
D† „ (Dynevore Castle)	Lord Dynevore	8	1	0	202	1298	51.11	233
D† „ (Cwmifor School)	T. I. Griffiths, Esq.	5	1	0	210	1269	49.97	227
D Llanddusant (Ponterynfe)	J. Thomas, Esq.	5	1	0	323	1515	59.63	237
D Llanwrda (Dolaucothy)	Gen. Sir J. Hills-Johnes VC	5	2	6	498	1545	60.84	260
3.—LOUGHOR & C. 104 sq. mi.								
D Llanelly (Old Market Yard) ...	G. Watkeys, Esq., C.E.	5	10	0	35	1224	48.20	210
D „ (Cwmlliedi W.W.)	„ „ „	5	3	0	240	1410	55.52	247
4.—TAFE. 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.								
D Fishguard (Goodwick Station)...	G. Lambert Gibson, Esq.	5	7	4	57	888	34.94	190
3.—WEST COAST STREAMS. 82 sq. mi.								
D St. Davids	D. P. Williams, Esq.	5	1	0	216	967	38.08	184
4.—CLEDDAU & C. 407 sq. mi.								
Pembroke (Stackpole Court)	Mr. W. B. Fisher	6	1	6	60	960	37.81	214
Tenby	Miss D. Truscott, per M.O. ....	...	...	...	79	1038	40.88	206
„ (Glendower)	J. T. C. Burgess, Esq.	5	1	6	70	1130	44.49	200
St. Ann's Head	Meteorological Office	8	0	8	150	949	37.36	218
D Pembroke (Bangeston)	Comm. P. C. Pearson, R.N.	5	1	0	40	1144	45.05	198
D „ Dock (Admiralty Res.)	H. F. Bowen, Esq.	8	1	0	90	951	37.43	179
D „ „ (County School)	G. H. West, Esq.	5	1	0	85	1123	44.20	204
D Saundersfoot (Hean Castle)	Lord Merthyr	5	1	0	206	1007	39.65	204
D Templeton (Hill)	Mrs. E. L. B. Allen	5	1	0	545	1386	54.57	237
Haverfordwest (Picton Castle)...	Sir C. E. G. Philipps, Bt.	5	0	10	138	1186	46.70	203
D „ (Portfield)	J. W. Phillips, Esq.	5	1	0	220	1082	42.59	226
D „	„ „ „	5	1	0	95	1101	43.33	203

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			1916		
		in.	ft.	in.	feet.	mm.	inches.	
PEMBROKE—(con.)								
4.—CLEDDAU & C—(con.)								
Haverfordwest (Poyston)	Dr. Henry Owen .....	...	...	...	125	1066	41·95	...
Penfford Council School	Thomas H. Davies, Esq....	5	1	0	310	1218	47·96	...
d Treffgarne Hall	Col. R. O. Lloyd, R.E....	5	1	1	286	1067	42·02	208
Mynachlogddu School	H. Davies, Esq.....	5	1	2	620	1311	51·63	...
d Fishguard (Langton, Dwrbach)..	J. C. Yorke, Esq.	5	1	0	320	1012	39·84	226
CARDIGAN. (Area, 688 sq. mi.)								
1.—DOVEY. 20 sq. mi.								
2.—YSTWYTH & C. 347 sq. mi.								
d Lampeter (Llanlear)	Miss Lewes.....	5	1	1	226	1067	42·02	202
d Strata Florida (Hafod)	T. J. Waddingham, Esq.	5	1	0	580	1537	60·50	251
Aberystwyth (N. Parade).....	Dr. A. Thomas	8	2	6	15	882	34·71	204
d „ (Gogerddan)	Mr. R. Winstanley	5	1	1	83	1192	46·94	222
3.—TEIFI. 260 sq. mi.								
d Lampeter (Falcondale)	Mr. W. Taylor	5	1	0	498	1698	66·86	238
4.—TOWY. 46 sq. mi.								
d† Nantneuadd [Abergwesyn]	Mr. W. Roberts	5	1	0	1290	1910	75·18	203
† Tregaron (Maes-y-bettws) ... M	Dr. H. R. Mill	5	1	0	910	2062	81·20?	...
† Strata Florida (Towy-fechan) M	„ „ „	5	1	0	1330	2187	86·10	...
5.—WYE. 15 sq. mi.								
Birmingham W.W. (Llyn Gynon) M	E. Antony Lees, Esq.....	5	1	0	1500	1951	76·80	...
† „ „ (Bwlchyrhendre) M	„ „ „	5	1	0	1585	1767	69·55	...
„ „ (Claerddu) ... M	„ „ „	5	1	0	1500	2040	80·30	...
„ „ (Gwngu)..... M	„ „ „	5	1	0	1650	1756	69·15	...
d „ „ (Abergwngu)...	„ „ „	5	1	0	1200	1665	65·55	204
Plynlimon	Dr. H. R. Mill	5	1	0	1740	2908	114·50	...
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	2137	84·13	229
3.—NEATH. 48 sq. mi.								
† Pont Neath Vaughan [Glyn Neath]	W. N. Hogben, Esq.	5	1	5	297	1916	75·43	217
d Ystradfellte Reservoir	D. M. Davies, Esq. ....	...	...	...	1147	2236	88·01	196
4.—TAFF. 48 sq. mi.								
d Nanthir Reservoir [Aberdare] ..	O. Williams, Esq., C.E....	5	1	0	860	1721	67·77	230
„ „ „ [„ „] M	„ „ „	5	1	0	860	1726	67·94	...
d Taff Fechan (Pontsticill) ..No. 12	T. F. Harvey, Esq., C.E.	5	1	0	1031	1587	62·49	222
„ „ „ „ „ No. 12 M	„ „ „	5	1	0	1031	1535	60·44	...
„ „ „ „ „ West) ..14	„ „ „	5	1	0	1254	1749	68·86	...
„ „ „ „ „ East) ...13	„ „ „	5	1	0	1763	1635	64·38	...
d† Cardiff W.W. (Llwynon Res.)...	C. H. Priestley, Esq., C.E.	5	1	0	860	1647	64·86	241
d „ „ (Pont-ar-daf) ...	„ „ „	5	1	0	850	1821	71·71	240
„ „ „ (Garw-nant)	„ „ „	5	1	0	1100	1933	76·10	...
„ „ „ (Nant Gwineu) ...	„ „ „	5	1	0	1275	1396	54·95	...
„ „ „ (Nant-y-gou-garn) ..	„ „ „	5	1	0	...	2105	82·89	...

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			1916		
		in.	ft.	in.	feet.	mm.	inches.	
BRECON—(con.)								
4.—TAFF—(con.)								
+ Taff Fechan (Pentwyn Res.) ...	T. F. Harvey, Esq., C.E.	5	1	0	1120	1856	73·08	248
+ " " (")....M	" " "	5	1	0	1120	1817	71·53	...
+ Cardiff W.W. (Nant Goch)	C. H. Priestley, Esq., C.E.	5	1	0	...	1623	63·88	...
+ " " (Nant Ddu)	" " "	5	1	0	1560	2028	79·83	...
+ " " (Pentwyn Uchaf, No. 5)	" " "	5	1	0	1143	1789	70·43	...
+ " " (Storey Arms, No. 4)	" " "	5	1	0	1430	1874	73·79	...
+ " " (Tyle Brith, No. 1)...	" " "	5	1	0	2350	1917	75·46	...
+ " " (Cantref Res., No. 2)	" " "	5	1	0	1120	2073	81·60	237
+ " " (Beacons Res., No. 6)	" " "	5	1	0	1340	2240	88·20	243
+ " " (Nant Penig, No. 3)..	" " "	5	1	0	2000	2539	99·97	...
+ Taff Fechan (Neuadd Res.) No. 1	T. F. Harvey, Esq., C.E.	5	1	0	1462	2081	81·93	260
+ " " (") No. 1 M	" " "	5	1	0	1462	2004	78·89	...
+ " " (") No. 4	" " "	5	1	0	1487	2441	96·11	260
+ " " (") No. 4A	" " "	5	1	0	1487	2397	94·37	260
+ " " (") No. 2 M	" " "	5	1	0	1993	1781	70·13	...
+ " " (") No. 5 M	" " "	5	1	0	1515	2323	91·44	...
+ " " (") No. 10 M	" " "	5	1	0	1700	2084	82·06	...
+ " " (") No. 11	" " "	5	1	0	1524	1787	70·36	260
+ " " (") No. 7 M	" " "	5	1	0	2017	2166	85·29	...
+ " " (") No. 8 M	" " "	5	1	0	1723	2323	91·46	...
+ " " (") No. 3 M	" " "	5	1	0	1843	1828	71·95	...
+ " " (") No. 3 A M	" " "	5	1	0	1843	1827	71·92	...
+ " " (") No. 9 M	" " "	5	1	0	1997	1643	64·70	...
+ " " (") No. 6 M	" " "	5	1	0	2099	2535	99·80	...
5.—RHYMNEY. 2 sq. mi.								
6.—EBBW. 7 sq. mi.								
+ Ebbw Vale W.W. (Llangunider Res.) 1	T. J. Thomas, Esq., C.E.	5	1	0	1413	1603	63·10	226
+ " " (") W. 3	" " "	5	1	0	1468	1737	68·37	226
+ " " (") N. W. 2	" " "	5	1	0	1471	1608	63·31	224
+ " " (Carno, S.)	" " "	5	1	0	1236	1824	71·80	230
+ " " (") E.)	" " "	5	1	0	1391	1711	67·35	229
+ " " (") W.)	" " "	5	1	0	1412	1840	72·43	230
+ " " (") N.)	" " "	5	1	0	1533	1730	68·12	209
7.—USK. 299 sq. mi.								
+ Crickhowell (Gwernvale)	E. Pirie Gordon, Esq.....	5	1	0	393	1042	41·01	201
+ " " (") Garden)	" " " "	5	1	3	443	1107	43·59	201
+ Llanbedr (Wernbystack)	Dr. H. R. Mill	5	1	0	...	1080	42·51	...
+ Swansea W.W. (Bwlch)	R. H. Wyrill, Esq., C.E....	8	1	0	1246	2905	114·36	240
+ " " (Cray Res.) No. 1	" " " "	5	1	0	1032	1830	72·03	238
+ " " (") (R)	" " " "	11	2	0	1030	1826	71·87	238
+ " " (") No. 2	" " " "	5	1	0	1015	2386	93·95	...
+ Talybont (Cui)	Lt.-Col. H. Jones Williams	5	1	0	490	1279	50·35	..
+ Brecon (New Inn)	Mr. W. Williams	5	1	0	810	1554	61·16	...
+ Cray Station	M. Mr. J. Jones	5	1	0	930	2042	80·40	...
+ Crickhowell (Cwmdu)	M. Mr. J. P. Edwards.....	5	1	0	430	970	38·20	...
+ " " (Ffordlas Farm) ...	Dr. H. R. Mill	5	1	0	1170	880	34·66?	...
+ Llanfrynach (Tymawr).....	Miss D. de Winton	5	1	0	450	1078	42·46	195
+ Crickhowell (Tal-y-maes).....	M. Dr. H. R. Mill	5	1	0	1250	1245	49·00	...
+ Treacastle (Blaenau-hydfer)	" " " "	5	1	0	1070	1911	75·23	185

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		1916		
		in.	ft. in.	feet.	mm.	inches.	
BRECON—(con.)							
7.—USK—(con.)							
† Black Mountains (Blaen-y-cwm)	J. R. Gethin Jones, Esq. ...	5	1 0	...	1622	63·87	217
† " " " " " "	J. F. Jupp, Esq., C.E. ...	5	1 0	1423	1534	60·39	200
† " " (Waun Fach)	{ The Referees, Aber- tillery Water Bd. Act }	5	1 0	2650	1462	57·55	...
† " " (" ") unfenced		5	1 0	2650	1538	60·54	...
† " " (Cwm Grigus Uchaf)	" " " "	5	1 0	1980	1658	65·28	230
† " " (" ") unfenced	" " " "	5	1 0	1980	1662	65·45	230
† " " (Dam Site, Grwyne Fawr)	" " " "	5	1 0	1620	1737	68·38	229
† " " (Aber Clyd)	" " " "	5	1 0	1880	1519	59·81	231
† " " (" ") unfenced	" " " "	5	1 0	1880	1559	61·38	231
† " " (Pen-y-Manllwyn)	" " " "	5	1 0	2512	1407	55·41	...
† " " (" ") unfenced	" " " "	5	1 0	2512	1452	57·18	...
† " " (Taren-yr-Esgob) ..	" " " "	5	1 0	2039	1457	57·35	229
† " " (" ") unfenced	" " " "	5	1 0	2039	1485	58·45	227
† " " (" ") Top	" " " "	5	1 0	2100	1528	60·17	227
† " " (Twyn Tal-y-Cefn)	" " " "	5	1 0	2130	1390	54·74	226
† " " (Blaen Grwyne Fawr)	" " " "	5	1 0	2150	1405	55·32	226
† " " (" ") unfenced	" " " "	5	1 0	2150	1434	56·47	227
† Upper Chapel (Tymawr)	Mrs. Probert	5	1 0	945	1341	52·80	...
8.—WYE. 271 sq. mi.							
† Cathedine Rectory	Rev. D. H. Picton	5	1 0	660	962	37·88	195
† Capel-y-ffin (Monastery)	{ The Referees, Aber- tillery Water Bd. Act }	5	1 0	1047	1466	57·72	...
† " " (Waun Goch)		5	1 0	1260	1507	59·33	...
† Talgarth (Dan-y-garth)	F. Morgan, Esq.	5	4 0	404	744	29·30	168
† " (Pontiwal Sanatorium)	Marcus Paterson, Esq. ...	5	1 0	600	848	33·38	...
† Gwernyfed Park [Glasbury] ...	Mrs. Glen Kidston	5	1 0	375	809	31·84	199
† Llanwrtyd Wells (Brynonen) ...	Rhys D. Jones, Esq.	5	1 0	702	1393	54·84	233
† Builth Wells (Tyn-y-berllan) ...	Dr. W. Black Jones	5	1 0	430	1021	40·18	216
† Abergwesyn (Trallwn)	Dr. H. R. Mill	5	1 0	1000	2154	84·70	...
† Pen-graig [Newbridge]	" " " "	5	1 0	960	1595	62·80	...
† Llysdinam ["]	Col. C. Venables Llewelyn	5	1 3	646	1253	49·32	237
† Birmingham W.W. (Cors-yr-hwch) M	E. Antony Lees, Esq.	5	1 0	1775	2634	103·72	...
† " " (Esgair Ceiliog) M	" " " "	5	1 0	1525	1895	74·60	...
† " " (Llyn-Carw) M	" " " "	5	1 0	1775	2398	94·40	...
† " " (Nant-y-car) ... M	" " " "	5	1 0	1545	2167	85·30	...
† " " (Esgair Garthen) M	" " " "	5	1 0	1600	1842	72·50	...
† " " (Elan Village) ...	" " " "	5	1 0	700	1519	59·79	234
RADNOR. (Area, 474 sq. mi.)							
1.—WYE. 424 sq. mi.							
† Boughrood Castle	Hon. F. J. Morgan	8	1 0	400	990	38·99	207
† Glasbury-on-Wye (Hampton Sch.)	Rev. D. C. Lloyd	5	1 0	274	923	36·34	199
† Welfield [Builth]	E. A. Thomas, Esq.	5	1 10	740	1152	45·37	...
† Builth Road (St. John's Vicarage)	Rev. J. L. Bryans	5	0 11	550	1174	46·21	218
† Llandrindod Wells (Kimberley) ..	W. B. de Winton Esq., C.I.E.	5	1 0	699	1044	41·09	228
† New Radnor (Ednol)	Dr. H. R. Mill	5	1 10	951	1083	42·65	...
† Presteign (St. Davids)	Dr. N. Y. Lower	5	1 0	500	952	37·47	215
† " (Norton Manor Gdns.)	Mr. Wilson Palliser	5	1 6	617	1025	40·35	...
† Birmingham W.W. (Tyrmynydd)	E. Antony Lees, Esq.	5	1 0	832	1591	62·65	244
† " (Nantgwillt)	" " " "	5	1 0	845	1745	68·70	246

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above Ground, Sea Level			1916		
		in.	ft.	in.	feet.	mm.	inches.	
RADNOR—(con.)								
1.—WYE—(con.)								
† Birmingham W.W. (Dwfnant) ...	E. Antony Lees, Esq.....	5	1	0	1050	1905	75·00	...
† " „ (Esgair Gader) No 1 M	" " "	5	1	0	1500	1787	70·35	...
" " „ (" „) No 2 M	" " "	5	1	0	1500	1836	72·30	...
D† " „ (Claerwen)...	" " "	5	1	0	1250	1914	75·35	227
D† " „ (Tynant) ...	" " "	5	1	0	1250	1702	66·99	236
Rhayader	" " "	5	1	0	700	1318	51·91	...
" (Vicarage)	Rev. George Roberts	5	1	0	740	1465	57·67	177
† Birmingham WW (Cerrigllwydion) M	E. Antony Lees, Esq.....	5	1	0	1700	1925	75·78	...
† " „ (Pen-y-gareg) M	" " "	5	1	0	1500	1500	59·05	...
† " „ (Calettwr) ... M	" " "	5	1	0	1500	1819	71·63	...
" „ (Figin) No. 1 M	" " "	5	1	0	1700	2125	83·65	...
" „ („) No. 2 M	" " "	5	1	0	1700	2162	85·11	...
" „ (Aberhenllan) M	" " "	5	1	0	1250	1501	59·08	...
Llanbister (Llananno)	Dr. H. R. Mill	5	1	0	900	1102	43·40	...
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	1535	60·45	223
2.—YSTWYTH. 7 sq. mi.								
3.—WYE. 37 sq. mi.								
D Llangurig (Dernol)	Dr. H. R. Mill	5	1	0	870	1636	64·42	228
4.—SEVERN—Right Bank Tributaries.	154 sq. mi.							
D Newtown (Penarth Weir)	G. R. Jebb, Esq., C.E.....	8	1	0	321	990	38·99	235
Welshpool (Edderton Hall)	Miss A. M. Howell Evans	5	1	0	500	736	28·96	186
5.—SEVERN—Left Bank Tributaries.	479 sq. mi.							
D Berriew (Rhiewport Gardens) ...	Mr. E. Jones	5	1	0	370	934	36·76	198
D Welshpool (County School)	D. B. Jehn, Esq.	5	1	0	263	786	30·96	215
Garthbibio (Bwlch Tomlyd) ... M	Dr. H. R. Mill	5	1	0	1370	1831	72·10	...
Llandysilio Rectory	Rev. H. G. Dickinson ...	5	1	0	225	702	27·64	...
D Carreghofa Sch. [Llanymynech]	R. T. Pritchard, Esq. ...	5	1	6	287	769	30·26	201
D Lake Vyrnwy	E. J. Bradley, Esq.	5	0	7	770	1614	63·53	205
" „ (Bryn Gwyn)	J. R. Davidson, Esq., C.E.	8	1	0	1311	1504	59·20	...
" „ (Bank Cynon Isaf)	" " "	8	1	0	750	1536	60·48	201
" „ (Ty Uchaf)	" " "	8	1	0	860	1507	59·33	...
" „ (Heol-y-ffridd) No.1	" " "	8	1	0	912	2132	83·94	...
" „ („) No.2	" " "	8	1	0	912	1898	74·72	...
" „ (Tyn-y-ffridd) ...	" " "	8	1	0	1010	1460	57·46	...
" „ (Lluestwen).....	" " "	8	1	0	1667	1886	74·26	...
" „ (Llwynrhwi)	" " "	8	1	0	1428	2238	88·12	...
" „ (Craig-y-Gribbin)..	" " "	8	1	0	1100	1679	66·11	...
" „ (Eunant Bridge)...	" " "	8	1	0	830	2034	80·06	...
" „ (Carreg Goch).....	" " "	8	1	0	1750	2129	83·83	...
" „ (Fawnog).....	" " "	8	1	0	1315	1511	59·48	...

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
DENBIGH—(con.)								
2.—CLWYD & C—(con.)								
Wygfair [St. Asaph] (R)	Col. H. R. L. Howard, C.B.	8	2	6	250	879	34.59	...
Colwyn Bay (Council Offices) ...	W. Jones, Esq., C.E.	8	1	0	82	796	31.36	174
3.—CONWAY. 84 sq. mi.								
Pentre Foelas (Voelas Hall).....	Mr. T. Dickie	5	1	3	640	1576	62.04	231
Llanrwst (County School).....	Rev. J. I. Farr	5	1	4	55	1328	52.29	227
Tal-y-cafn (Bodnant Hall)	Mr. George Gurney	8	1	6	120	959	37.74	204
4.—SEVERN—Left Bank Tributaries. 47 sq. mi.								
Llangadwaladr (Penygwely Res.)	G. W. Lacey, Esq., C.E.	5	1	0	1094	919	36.19	208
MERIONETH. (Area, 661 sq. mi.)								
1.—DEE. 218 sq. mi.								
Bala (Eryl Aran)	Mrs. Burton	8	1	0	600	1590	62.60	221
Llanderfel (Palé Gardens)	Mr. E. J. Edwards	8	1	0	606	1469	57.82	222
Corwen (Rûg Gardens).....	Mr. W. B. Burchill	8	1	2	500	1024	40.32	...
2.—CLWYD. 7 sq. mi.								
3.—GLASLYN. 92 sq. mi.								
Tan-y-bwlch (The Gardens) ...	Mr. J. Roberts	5	1	0	50	1666	65.60	239
Festiniog (Morwynion Lake)..(R)	E. Lewis Evans, Esq.	4	10	0	1320	1790	70.48	198
Blaenau Festiniog (Oakley Quarries)	R. H. Jones, Esq.	5	10	0	1100	2699	106.26	...
„ „ (Llechwedd „ „)	Messrs J. W. Greaves & Sons	5	1	0	770	2876	113.25	251
4.—MAWDDACH & C. 262 sq. mi.								
Towyn (Ynys-y-Maengwyn) ...	Roger Corbett, Esq.	5	1	0	14	1036	40.78	210
„ (Peniarth)	Mrs. Wynne	8	1	0	25	1180	46.47	226
Dolgelly (Dr. Williams' School)..	Miss F. A. Anstey.....	5	2	0	30	2067	81.39	195
„ (Bryntirion)	E. P. Beale, Esq.	5	0	10	50	1559	61.37	208
„ (Hafod Fawr).....	T. Hyett, Esq., per M.O.	8	1	0	900	1986	78.18	233
5.—DOVEY. 82 sq. mi.								
Aberdovey	R. Williams, Esq.	5	1	0	22	980	38.57	223
„ (Plas Penhelig)	J. M. Howell, Esq.	5	1	6	130	1014	39.93	220
Pennal (Talgarth Hall).....	Frank Gott, Esq.	5	5	0	125	1407	55.38	200
6.—SEVERN—Left Bank Tributaries.								
CARNARVON. (Area, 572 sq. mi.)								
1.—[BARDSEY ISLAND.]								
[Bardsey Island]	Hon. F. G. Wynn	5	1	0	40	769	30.26	...
2.—CONWAY & C. 146 sq. mi.								
Penmachno (Nant-y-Crogwyn)..	Mr. Idwal Pritchard	5	1	0	750	2097	82.57	221
Snowdon (Pen-y-Gwryd)..No. 13	A. Lockwood, Esq.	5	1	0	916	3492	137.49	244
Bettws-y-Coed (Tyn-y-bryn) ...	Percivale Bouch, Esq. ...	8	31	6	125	1429	56.25	235
Lake Cowlyd (Llethyr Gwyn) C	C. F. Farrington, Esq. ...	5	1	0	1700	2007	79.01	...
„ „ (Gors-y-Llithrig) D	„ „ „ „	5	1	0	1900	2009	79.11	...
„ „ (Ffrith Fawr) ... B	„ „ „ „	5	1	0	1700	2246	88.42	...
„ „ („ , Carreg Wen) A	„ „ „ „	5	1	0	1168	2219	87.35	...
Lake Eigiau (Dam Site)	H. J. Jack, Esq.	5	1	0	1245	2259	88.93	223
Llanbedr-y-Cennin (Plasdulyn).	W. T. Ward, Esq.	8	1	0	509	1463	57.59	...
„ „ (Llyndulyn)	„ „ „ „	8	1	6	1632	2053	80.82	...
Deganwy (Y Berlfa).....(R)	Willoughby Gardner, Esq.	5	1	0	35	807	31.78	...

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			1916		
		in.	ft.	in.	feet.	mm.	inches.	
CARNARVON—(con.)								
2.—CONWAY & C—(con.)								
Deganwy (Bryn Estyn)	Miss A. M. Simpson	5	1	0	100	745	29.34	...
D Llandudno	W. Little, Esq.	5	1	0	20	722	28.44	197
3.—MENAI STRAITS. 221 sq. mi.								
D Madryn Castle (Farm School) ...	Dr. A. D. Turner	5	1	0	285	960	37.80	192
Nantlle (Dorothea Quarries)... M	W. J. Griffith, Esq.	8	2	0	450	1504	59.23	...
† Llandwrog (Glynllivon Park) ...	Hon. F. G. Wynn.....	5	1	0	100	953	37.52	...
† „ („ Nursery) „ „ „	„ „ „	5	1	0	180	1098	43.24	206
† „ („ Garden). „ „ „	„ „ „	5	1	0	100	965	38.00	...
† „ („ Fort) ... „ „ „	„ „ „	5	1	0	180	1098	43.21	217
Carnarvon (Belan Fort).....	„ „ „	5	1	0	12	803	31.60	...
D „ (Glangwna).....	J. E. Greaves, Esq.	8	1	2	202	987	38.86	172
Lake Ogwen C.E. School	R. Hughes, Esq. ....	...	...	...	1004	3652	143.80	...
D Llanberis (Bryntirion)	Mr. Emrys Jones	5	1	8	900	1815	71.46	238
D „ (Brynrefail School) ...	J. Rees Foster, Esq.	5	1	0	356	1365	53.74	227
D „ (Llandinorwig School) ...	John Roberts, Esq.....	5	1	0	850	1433	56.42	225
D Llanrug (Llys Eiddon)	J. Rees Foster, Esq.	5	1	0	400	1105	43.49	211
D Bethesda (St. Ann's Vicarage) ..	Rev. W. Morgan	5	2	6	450	1490	58.68	243
D „ (Penrhyn Quarries) ...	W. D. Hobson, Esq.	8	1	0	528	1664	65.50	235
D Bangor (Penrhyn Castle Gdns.)..	Mr. W. Speed	5	1	0	150	856	33.69	165
D Llanfairfechan	Mr. W. Timmins	5	1	0	144	928	36.54	180
Penmaenmawr (Mountain Res.)..	R. J. Hughes, Esq.	5	1	6	1200	1278	50.32	...
„ (Council Offices). „ „ „	„ „ „	5	1	6	100	877	34.51	173
4.—ERCH & C. 155 sq. mi.								
D Abersoch.....	W.H. Winterbotham, Esq.	8	1	0	100	1062	41.79	197
D Bryn croes (Schoolhouse)	E. R. Williams, Esq.....	5	0	11	320	1032	40.63	194
Pwllheli (Bodfean Hall)	Hon. F. G. Wynn	5	1	0	200	1040	40.93	...
„ („ „ Gardens) „ „ „	„ „ „	5	1	0	200	1015	39.95	...
5.—GLASLYN. 50 sq. mi.								
Beddgelert (Council School)	David Jones, Esq.	5	1	0	133	2398	94.41	177
Snowdon (Wenallt)	No. 6 A. Lockwood, Esq.	5	1	2	1050	3682	144.95	...
„ (Cwm Dyli).....	No. 11 „ „ „	5	1	0	310	3070	120.85	...
„ (Old Road)	No. 14 „ „ „	5	0	10	325	2766	108.91	...
„ (Lliwedd)	No. 2 „ „ „	5	1	3	1485	3897	153.44	...
„ (Glaslyn)	No. 3 „ „ „	5	0	8	2050	3870	152.38	...
„ (Teyrn)	No. 1 „ „ „	5	1	0	1080	3908	153.87	...
„ (Llyn Llydaw Intake) No. 10	„ „ „	5	1	0	1480	3766	148.26	...
„ („ „ Copper Mill) No. 9B	„ „ „	5	1	5	1480	4341	170.89	...
„ (Crib Goch)	No. 8 „ „ „	5	1	3	2340	4268	168.03	...
„ (Llyn Llydaw, N.) No. 5	„ „ „	5	1	0	1470	3646	143.56	...
ANGLESEY. (Area, 275 sq. mi.)								
Llanddwyn Island.....	Hon. F. G. Wynn	5	1	0	24	780	30.70	...
D Dwyran (Menaifron).....	W. E. Sotheby, Esq.....	8	1	0	17	816	32.14	193
D Llanddaniel-Fab (Porthamel) ..	Hon. Cecil S. Irby.....	5	0	9	70	922	36.30	198
D† Llangadwaladr (Bodorgan)	Mr. W. Pilgrim	5	1	0	100	922	36.28	216
D Llangefni (Penrhos)	A. H. Wittimshaw, Esq.	8	0	9	132	1075	42.32	191
D Llangwilog (Trescawen)	J.H.Pritchard-Rayner Esq.	5	1	0	239	1124	44.27	217

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	1916		
ANGLESEY—(con.)		in.	ft.	in.	feet.	mm.	inches.	
† Holyhead (Sailors' Home)	Meteorological Office	5	1	0	15	905	35.63	204
D Llantrisant Rectory	Rev. Daniel Morgan	5	1	6	300	1080	42.54	237
D Llanerchymedd Llwydiarth Esgob	T. Prichard, Esq.	5	1	0	175	1074	42.27	229
D Lligwy	Lord Boston	5	1	0	170	841	33.10	201
Amlwch (Dyffryn Adda)	Major T. Fanning Evans	5	1	2	178	1034	40.72	220
ISLE OF MAN. (Area, 227 sq. mi.)								
Castletown (Langness)	Board of Northern Lights	8	1	0	75	815	32.09	199
Santon Vicarage	Rev. R. Jones	5	0	10	245	1045	41.14	223
Douglashead	Board of Northern Lights .....	...	...	...	...	763	30.04	...
D† Douglas (Borough Cemetery) ..	A. D. Barron, Esq.	8	1	0	284	1142	44.95	224
D† „ (Clype Res., Onchan) ..	Mr. W. Crebbin	8	1	0	420	1278	50.31	224
Maughold Head	Board of Northern Lights .....	...	...	...	...	574	22.62?	...
D Kirkmichael (Bishop's Court) ..	Mr. W. Brew	5	0	10	80	1000	39.39	192
D† Ramsey (Town Hall)	G. W. Kewin, Esq.	8	15	0	18	1138	44.81	193
D „ (North Promenade)	„ „ „	5	2	0	5	1115	43.89	209
Point of Ayre	Board of Northern Lights	3	4	6	116	1343	52.86	...
CHANNEL ISLANDS. (Area, 76 sq. mi.)								
JERSEY. (45 sq. mi.)								
D Pontac (St. Edmund's)	Dr. E. G. Barnes	5	1	6	30	874	34.41	186
D St. Saviours (Clifton)	C. V. Hawksford, Esq.	5	2	2	215	940	37.02	198
D† St. Helier (St. Louis Observatory) ..	Rev. M. Dechevrens, S.J.	8	5	9	180	839	33.04	178
† St. Aubins (Railway Station) ..	Meteorological Office	8	1	9	25	886	34.87	186
† „ (Belle Vue)	C. J. Sumner, Esq.	5	1	0	220	869	34.22	183
Grouville (Gouray Lodge)	C. V. Hawksford, Esq.	5	...	...	100	907	35.70	...
D† Millbrook (St. Helier W.W.) ..	A. J. Jenkins, Esq., C.E.	5	0	11	52	884	34.80	182
St. Lawrence Valley W.W.	C. V. Hawksford, Esq. ....	...	...	...	200	956	37.63	210
St. Ouen's Manor	R. Malet de Carteret, Esq.	5	2	0	270	836	32.91	173
Trinity Rectory	C. V. Hawksford, Esq.	5	...	...	410	926	36.47	191
GUERNSEY. (25 sq. mi.)								
D† St. Martins (Les Blanchés)	B. T. Rowswell, Esq.	5	1	0	310	890	35.03	197
† „ (Hautnez)	A. Collenette, Esq.	5	0	8	343	957	37.67	201
† Villiaze	„ „ „	5	0	6	337	917	36.12	201
D† St. Saviours (Le Mont Saint) ..	S. Carey Curtis, Esq.	5	1	0	105	803	31.62	180
D† St. Peter Port (St. Martin's Rd.) ..	A. Collenette, Esq.	5	1	0	295	935	36.80	207
D† „ „ (Market Street) ..	B. T. Rowswell, Esq.	5	52	8	100	940	36.99	196
D† „ „ (Villa Carey)	Dr. F. E. Carey	8	1	6	180	970	38.20	209
D† „ „ (Rohais)	T. J. Guilbert, Esq.	5	1	0	124	937	36.90	231
D Castel (St. George)	Rev. H. G. de C. S. Guille	5	0	10	120	896	35.27	213
SARK. (2 sq. mi.)								
D Pointe Robert	B. T. Rowswell, Esq.	5	1	0	215	792	31.17	193
HERM. (1 sq. mi.)								
ALDERNEY. (3 sq. mi.)								
D Le Huret	B. T. Rowswell, Esq.	5	1	0	245	881	34.70	233

SCOTLAND.

DIVISION XII.—SOUTHERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground.		Sea Level	1916		
		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	986	38·84	...
2.—WESTERN GALLOWAY. 44 sq. mi.								
Mull of Galloway	Board of Northern Lights	...	...		327	732	28·81	164
d Logan House	K. McDouall, Esq.....	8	1	0	80	998	39·29	230
Corsewall	Board of Northern Lights	...	3	4	112	1141	44·92	...
3.—LUCE BAY. 186 sq. mi.								
d Stoneykirk (Ardwell House).....	Sir M. McT. Stewart, Bt.	8	2	4	65	995	39·17	216
d Glenluce (Crews)	Peter Taylor, Esq.....	5	1	9	218	1079	42·48	188
4.—CREE & WIGTOWN BAY. 212 sq. mi.								
d Whithorn (Cutroach)	J. G. Martin, Esq.....	5	0	6	120	1058	41·64	193
d „	Dr. J. F. Smith	5	0	8	207	1165	45·88	207
Garliestown (Galloway House)...	Mr. J. R. Crosbie	5	3	9	20	872	34·35?	152
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	1325	52·15	218
Creetown (Cassencary)	J. A. Henryson-Caird, Esq.	5	0	8	50	1086	42·77	204
d Palnure (Bargaly)	Mrs. Colvin Stewart <i>pers</i> SMS	8	3	5	50	1415	55·71	203
d Bargrennan Manse	Rev. George Muir	5	1	0	185	1326	52·20	237
Glenhead of Trool.....	J. McMillan, Esq <i>per</i> S.M.S.	5	0	11	320	1916	75·45	...
3.—DEE. 377 sq. mi.								
Little Ross Lighthouse.....	Board of Northern Lights	...	3	3	175	835	32·86	187
Kirkcudbright (Balmae)	The Countess of Selkirk	5	0	8	150	1131	44·54	...
d Dalry (Glendarroch)	Miss M. Barbour	5	0	11	192	1468	57·79	236
d Carsphairn (Shiel)	Mr. S. Wilson	5	1	0	850	2007	79·02	249
d „ (Knockgray)	Miss Clark Kennedy	8	0	11	641	1421	55·94	226
4.—URR & C. 196 sq. mi.								
Auchencairn (Torr House)	W. Ovens, Esq.	5	0	8	50	1331	52·39	...
d Dalbeattie (Kirkennan).....	Wellwood Maxwell, Esq.	5	0	9	30	1384	54·48	254

DIVISION XII.—SOUTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Diam.	Rain Gauge.		Depth of Rain.		Days with .01 in. or more	
			Height Above Ground.	Sea Level	1916			
		in.	ft.	in.	feet.	mm.	inches.	
KIRKCUDBRIGHT—(con.)								
4.—URR & C—(con.)								
Dalbeattie (Little Richorn)	Mr. W. Kerr	5	1	0	54	1256	49·44	214
D Kirkpatrick Durham (Glenlair)..	Major J. A. W. Maxwell	5	0	6	250	1551	61·05	236
5.—NITH & C. 91 sq. mi.								
D Cargen [Dumfries]	Col. R. F. Dudgeon	5	0	10	80	1345	52·95	239
D Lochrutton (Dumfries W.W.)...	J. Smellie, Esq.	5	1	0	273	1311	51·63	253
D Lincluden House [Dumfries] ...	Miss Young	5	1	0	60	1182	46·52	225
D Jardington [Dumfries]	J. Rutherford, Esq.	5	1	0	50	1114	43·84	230
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	1053	41·44	206
D Dumfries (Crichton Roy. Inst.)..	Mr. E. Joss	5	1	0	155	952	37·46	228
Moniaive (Glencrosh)	Miss Macmillan	5	1	2	350	1395	54·91	226
D „ (Maxwelton House) ...	Rev. Sir E. Laurie, Bart.	5	1	6	400	1395	54·92	249
„ (Jarbruck)	Cecil E. Laurie, Esq.	8	1	2	350	1587	62·49	247
D Durrisdeer (Drumlanrig Gardens)	Mr. D. Inglis	5	0	9	191	1362	53·62	204
4.—ANNAN. 367 sq. mi.								
Dalton (Whitecroft)	W. Maitland-Heriot, Esq.	5	0	6	240	1243	48·92	...
D Hoddam Castle	E. J. Brook, Esq., per S.M.S.	5	1	4	150	1192	46·93	220
Ecclefechan (Knockhill)	Hon Mrs Johnson-Fergusson	5	0	9	150	1147	45·16	...
„ (Burnfoot)	Major H. C. Irving	5	0	10	160	1252	49·31	...
D Dalton (School House)	P. C. Copland, Esq.	5	1	0	175	1341	52·80	233
D „ (Kirkwood)	Arthur J. Steel, Esq.	5	0	8	245	1357	53·42	240
D Lockerbie (Castle Milk)	Mr. J. T. Jeffrey	5	1	6	199	1216	47·86	215
D Lochmaben (Esthwaite)	W. J. Halliday, Esq.	5	1	0	166	1238	48·75	235
Amisfield (Glenae)	H. Sharpe Gordon, Esq. ...	5	0	11	300	1160	45·67	185
Beattock (Kinnelhead)	J. Bartholomew, Esq.	5	1	0	820	1722	67·79	...
„ (Road Exper. Station)	R. Paterson, Esq.	5	1	0	345	1436	56·54	...
Moffat (Craigielands)	Bertram Smith, Esq.	5	1	0	334	1553	61·15	...
D „ (Auchen Castle)	Mr. J. Macgregor	5	0	6	500	1533	60·34	247
5.—ESK. 275 sq. mi.								
Canonbie (Byreburnfoot)	Mr. David Crabbe	3	0	9	160	1286	50·63	...
D „ (Irvine House)	J. H. Milne Home, Esq. ...	5	0	6	200	1377	54·23	227
D Langholm (Drove Road)	Mrs. Jackson	5	0	9	270	1497	58·95	210
„ (Craig)	J. Little, Esq.	5	1	0	450	1563	61·53	...
„ (Ewes, Burnfoot)	R. E. Little, Esq.	5	0	6	541	1498	58·99	...
„ „ (School)	Mrs. Lyall	5	1	0	445	1553	61·14	...
Eskdalemuir Observatory	Meteorological Office	11	2	0	799	1776	69·93	253
D „ „	„ „	8	1	0	798	1791	70·50	254
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	956	37·62	239

DIVISION XII.—SOUTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above			1916		
			Ground.	Sea	Level			
		in.	ft.	in.	feet.	mm.	inches.	
ROXBURGH--(con.)								
	3.--TWEED--Teviot & c. 431 sq. mi.							
	Hawick (Wolfelee)	5	0	10	587	1305	51.37	260
D	„ (Bransholme)	5	0	6	457	1098	43.24	233
	Ancrum Bridge	5	2	0	229	929	36.59	...
D	„ (Monteviot) ..	5	3	0	200	1021	40.21	208
D	Jedburgh (Ploughlands)	5	1	0	301	895	35.24	228
D	St. Boswells (The Fens)	5	1	6	260	922	36.29	197
	Kelso (Springwood Park)	5	1	3	130	988	38.91	216
	4.--TWEED--Ettrick & c. 10 sq. mi.							
D	Melrose (Asylum)	5	0	6	480	1177	46.34	268
D	„ („)	5	1	0	480	1069	42.09	268
	5.--TWEED--Gala. 6 sq. mi.							
	6.--TWEED--Leader & c. 25 sq. mi.							
D	Melrose (Drygrange).....	5	1	0	360	940	37.01	218
	7.--TWEED, LOWER--Left Bank							
	Tributaries. 25 sq. mi.							
D	Kelso (Broomlands)	5	1	0	193	907	35.70	192
	Smailholm (Sandyknowe).....	5	1	2	500	823	32.39	...
	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	1144	45.05	185
2.—TWEED—Ettrick & c. 192 sq. mi.								
Edinburgh W. W. (Meggat Head) No. 1	Messrs. Leslie & Reid, C.E.	5	1	3	1496	1637	64.45	...
D Selkirk (The Hangingshaw)	Miss Johnstone of Alva ...	6	0	6	670	1217	47.91	197
„ (Lindean Reservoir) ...	S. Pittillo, Esq. <i>per</i> S.M.S.	...	...	...	900	1103	43.44	...
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	1109	43.65	202
Galashiels (The Peel, Clovenfords)	W. R. Ovens, Esq.	6	1	6	500	1208	47.56	...
5.—TWEED—Gala. 6 sq. mi.								
D Galashiels (Abbotsford Rd.)	Dr. J. W. Somerville	5	0	8	416	1032	40.64	224
„ (Stantling Craigs) ...	Mr. J. Murray	12	1	3	800	1204	47.40	...

PEEBLES. (Area, 348 sq. mi.)

1.—TWEED, UPPER—Right Bank	Tributaries. 127 sq. mi.							
Edinburgh W. W. (Ravensraig) 3 M	Messrs. Leslie & Reid, C.E.	5	1	3	2258	2436	95.90	...
„ „ (Gameshope Loch) 4 M	„ „ „	5	1	3	1860	2265	89.17	...
„ „ (Loch Craig Head) 2 M	„ „ „	5	1	0	2627	2139	84.20	...
D „ „ (Gameshope Farm) 5a	„ „ „	5	1	3	1538	2011	79.16	237
„ „ „ „ „ „ No. 5 M	„ „ „	8	1	3	1538	1986	78.21	...
D „ „ „ „ „ „ No. 6a	„ „ „	5	1	3	966	1865	73.41	267
„ „ „ „ „ „ No. 6 M	„ „ „	8	1	3	966	1850	72.82	...
D „ „ „ „ „ „ No. 7a	„ „ „	5	1	3	1196	1529	60.18	236

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		1916			
		in.	ft.	in.	feet.	mm.	inches.	
PEEBLES—(con.)								
1.—TWEED, UPPER—Right Bank Tributaries—(con.)								
Edinburgh W.W. (Quarter Hill) 7 M	Messrs. Leslie & Reid, C.E.	8	1	3	1196	1504	59.23	...
D „ „ (Victoria Lodge) No. 8	„ „ „	5	1	3	904	1599	62.94	243
„ „ „ „ „ 8A M	„ „ „	8	1	3	904	1517	59.73	...
D Stobo (Dawyck Gardens)	Mr. J. Simpson	5	1	1	600	1387	54.60	235
2.—TWEED, UPPER—Left Bank Tributaries. 192 sq. mi.								
Stobo Castle	J. Ainslie, Esq.	5	1	0	590	1329	52.33	233
Innerleithen (Glen)	Mr. A. Black, per M.O.S. ....	...	...	...	750	1373	54.06	222
D Castlecraig [Dolphinton]	James Mann Esq. per S.M.S. ....	...	...	...	820	1301	51.23	225
D West Linton (Woodlee Cottage)	Messrs. Leslie & Reid, C.E.	5	1	0	801	1214	47.79	246
D „ „ (Dalziel House) ...	Dr. J. R. Jeffrey	5	1	0	770	1361	53.58	235
3.—ESK. 23 sq. mi.								
D Eddlestone (Portmore Reservoir)	Messrs. Leslie & Reid, C.E.	11	1	0	1000	1187	46.73	217
„ „ „ „ „ M	Mr. W. Tod „ „ „	11	1	0	1007	1175	46.26	...
N. Esk Reservoir [Penicuik] ...	Mr. W. Tod	11	0	6	1150	1492	58.75	...
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.								
Earlston (Cowdenknowes)	Mr. J. Smith, per S.M.S.	5	0	10	360	1034	40.71	...
D Lauder (Burncastle)	J. S. S. Turnbull, Esq.	5	1	0	900	1126	44.31	229
Earnsclough Burn (Blythe Rig) M	„ „ „ „ „	5	1	0	1200	1371	53.97	...
3.—TWEED, LOWER—Left Bank Tributaries. 115 sq. mi.								
Coldstream (Lochton)	J. Aitchison, Esq.	5	1	0	151	952	37.48	...
D „ „ (The Hirsell)	Mr. P. MacAndrew	5	1	0	94	954	37.54	187
D Swinton House	A. E. Swinton, Esq.	5	1	0	200	883	34.76	225
D „ „ „ „ „	„ „ „ „ „	5	0	10	200	876	34.50	226
4.—TWEED—Whiteadder. 164 sq. mi.								
D Marchmont House	Mr. J. A. Wood	5	1	0	498	1143	45.00	213
D Duns Castle	Mr. P. Smith	5	3	0	500	1002	39.45	199
D „ „ (Manderston)	Mr. F. J. Marshall	5	1	6	356	1014	39.93	154
West Foulden	J. Hewat Craw, Esq.	5	1	0	240	952	37.50	...
5.—EAST COAST STREAMS. 80 sq. mi.								
St. Abb's (Northfield)	J. A. Morrison Esq. per SMS	5	0	8	130	812	31.98	...
„ „ Head	Board of Northern Lights	8	4	3	224	908	35.76	149
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	1252	49.31	...
„ „ (Thorster Reservoir)	„ „ „ „ „	5	1	6	700	981	38.63	...
Prestonkirk (Ninewar)	W. S. Curr, Esq.	5	1	0	120	855	33.67	168
Barnsness Lighthouse	Board of Northern Lights	...	...	...	120	875	34.45	161
4.—TYNE & C. 114 sq. mi.								
Lammermuir Hills (Wanside Res.) A	W. Allan Carter, Esq., C.E.	5	0	4	998	1130	44.50	...
„ „ „ „ „ B	„ „ „ „ „	5	0	4	950	1240	48.83	...

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with '01 in. or more
		Diam.	Height Above Ground.		Sea Level	1916		
		in.	ft.	in.	feet.	mm.	inches.	
HADDINGTON—(con.)								
4.—TYNE & C—(con.)								
Prestonkirk (Smeaton)	Sir A. Buchan-Hepburn Btper SMS	7	7	10	100	957	37·68	192
5.—FIRTH OF FORTH. 48 sq. mi.								
Drummore [Musselburgh]	Miss Aitchison, per S.M.S.	5	1	0	75	933	36·73	...
D Gullane (The Warren)	H. E. Meek, Esq.	8	1	0	115	954	37·56	217
D North Berwick Reservoir ...	A. G. Merriles, Esq., C.E.	5	1	6	150	869	34·21	179
6.—INSULAR.								
MIDLOTHIAN. (Area, 369 sq. mi.)								
1.—TWEED—Gala. 68 sq. mi.								
Stow (Cragdale)	A. L. Pringle, Esq.	5	0	6	642	1155	45·48	...
2.—TYNE. 28 sq. mi.								
3.—FIRTH OF FORTH. 3 sq. mi.								
D Oxenfoord Castle Gardens	Mr. A. C. Scott	5	1	2	450	1082	42·58	198
4.—ESK. 116 sq. mi.								
Moorfoot Hills (Bowbate)	Messrs. Leslie & Reid, C.E.	11	0	6	1260	1784	70·22	...
D " " (Gladhouse Res.)	" " " "	5	0	8	915	1328	52·30	256
D " " (" ")	" " " "	8	1	0	915	1282	50·48	...
D " " (Rosebery)	" " " "	4	0	9	750	1204	47·39	244
D " " (" ")	" " " "	11	0	9	750	1148	45·20	...
D " " (Edgelaw)	" " " "	4	0	10	654	1214	47·79	244
D " " (" ")	" " " "	11	0	10	654	1181	46·50	...
D Penicuik (Brunstane Cottage)	" " " "	5	1	0	800	1274	50·17	248
Gorebridge (Deanbank)	A. Wilson Spalding, Esq.	5	1	0	500	1104	43·45	...
Pentland Hills (Harehill)	Messrs. Leslie & Reid, C.E.	11	1	7	1297	1559	61·38	...
D " " (Martyrs Cross)	" " " "	5	1	0	750	1390	54·71	262
D " " (Loganlea)	" " " "	5	1	0	811	1521	59·87	222
D " " (" ")	" " " "	8	1	4	813	1379	54·30	...
D " " (Glencorse Filters)	" " " "	5	1	0	639	1385	54·52	235
D " " (" ")	" " " "	11	1	0	639	1468	57·80	...
D " " (Glen Cottage)	" " " "	5	1	2	739	1509	59·40	236
D " " (" ")	" " " "	8	1	2	738	1424	56·05	...
D Milton Bridge (Bush)	J. S. Abernethy, Esq.	5	1	0	600	1323	52·09	222
Newbattle (Public School)	W. Fowler, Esq.	5	4	3	300	1063	41·86	...
D Dalkeith Gardens	Mr. J. Whytock	5	1	0	144	1035	40·74	158
5.—ALMOND & C. 153 sq. mi.								
D Pentland Hills (Crosswood)	Messrs. Leslie & Reid, C.E.	5	1	0	950	1317	51·85	214
D " " (" ")	" " " "	8	1	0	950	1296	51·03	...
D " " (Harperrig)	" " " "	5	1	0	900	1508	59·37	253
D " " (" ")	" " " "	8	1	0	900	1480	58·27	...
D " " (Morton)	" " " "	5	1	0	749	1420	55·90	253
D West Calder (Addiewell)	R. W. Meikle, Esq.	12	24	3	620	1327	52·25	197
D Balerno (Cockburn Hill)	R. Cross, Esq.	5	1	0	767	1438	56·62	222
D Pentland Hills (Harlaw Res.)	Messrs. Leslie & Reid, C.E.	5	1	0	800	1220	48·04	243
D " " (" ")	" " " "	11	0	9	800	1219	47·99	...
D " " (Bonally Res. *)	" " " "	11	0	6	1112	1348	53·06	...
D " " (Clubbiedean Res.)	" " " "	4	0	6	773	1100	43·29	...
D " " (" ")	" " " "	11	0	9	773	1162	45·76	...
D " " (Swanston)	" " " "	5	0	6	550	1098	43·22	219

* Formerly called Harbour Hill.

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above		1916			
			Ground.	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
MIDLOTHIAN—(con.)								
5.—ALMOND & C—(con.)								
	Pentland Hills (Swanston) ... M	Messrs. Leslie & Reid, C.E.	11	0	6	550	1233	48·54 ...
D	„ „ (Fairmilehead) ...	„ „ „	5	1	0	590	1227	48·32 212
D	„ „ (Firhill Tank) ...	„ „ „	5	0	6	412	1148	45·20 222
D	Liberton (Alnwick Hill)	„ „ „	5	1	0	407	1128	44·42 214
	„ „ „ „) M	„ „ „ „	8	1	0	407	1128	44·40 ...
	„ (College Garden)	A. McCallum, Esq. per SMS	5	1	0	190	1068	42·05 203
D	„ (The Inch)..... (R)	Gen. R. Gordon Gilmour, CB	8	2	9	60	1098	43·21 212
D†	Edinburgh (Royal Observatory)	Prof. R. A. Sampson, F.R.S.	8	1	0	442	990	38·99 199
	„ (Napier Road)	Alex. Harrison, Esq.....	5	1	2	230	1020	40·17 182
	„ (The Academy)	M. McC. Fairgrieve, Esq.	5	1	0	67	947	37·30 ...
D†	„ (Univ. Engin. Lab.)	Prof. T. Hudson Beare ...	5	1	0	227	1043	41·06 234
†	„ „ „ „) M	„ „ „ „	5	1	0	227	1038	40·86 ...
D	„ (St. Roque).....	H. B. Waugh, Esq. per SMS	...	...	...	...	1087	42·78 212
D	„ (City Observatory)....	Sir W. Peck	8	1	0	349	949	37·36 218
†	„ (Charlotte Square)...	Messrs. Leslie & Reid, C.E.	11	1	6	190	997	39·25 ...
	„ „ „ „) ...	„ „ „ „	12	63	0	300	720	28·34 ...
	Leith (Starbank Park)	Meteorological Office	8	1	8	30	952	37·51 202
	„ (Navigation School).....	J. Bolam, Esq., per S.M.S.	5	0	5	76	977	38·45 202
D	Davidson's Mains (Broomfield)...	Mr. C. Comfort	5	0	10	42	960	37·81 191
6.—CLYDE—Right Bank Tributaries. 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	1241	48·85 ...
	„ „ „ „) No. 8 M	„ „ „ „	8	1	5	577	1314	51·73 ...
	„ „ „ „) No. 6 M	„ „ „ „	8	1	4	680	1207	47·53 ...
	„ „ „ „) No. 3 M	„ „ „ „	8	1	2	711	1194	47·01 ...
D	„ (Bangour Asylum)	Dr. J. Keay	5	1	0	586	1075	42·34 222
	„	R. W. Meikle, Esq.	8	0	10	380	1188	46·76 ...
	Kirkliston (Newliston)	S. B. Hog, Esq., per S.M.S.	...	...	...	140	1143	45·00 ...
D	Dalmeny House	Mr. D. T. Johnston	5	0	8	55	1038	40·87 213
2.—FORTH—Right Bank Tributaries. 59 sq. mi.								
D	Bathgate (Boghead House)	Mr. A. Ferguson	5	2	0	500	1262	49·70 222
D	„ (Filters) No. 1	A. L. Reid, Esq.	5	0	9	640	1204	47·42 211
	„ (Petershill Res.) No. 2	„ „ „ „	5	0	9	710	1148	45·18 ...
	„ (Ballencrieff Res.) No. 3	„ „ „ „	5	0	9	730	1112	43·78 ...
	Torphichen (Lochcote)	M John Louden, Esq.	5	0	4	550	1272	50·07 ...
	Carribber Reservoir	„ „ „ „	5	0	4	400	1124	44·27 ...
D	Linlithgow (Grange)	H. M. Cadell, Esq.	5	0	6	430	1080	42·52 217
D	„ (Preston House).....	Mr. C. Blair	5	1	0	380	1194	46·99 207
D	„ Academy	J. Beveridge, Esq.....	5	1	0	170	1250	49·23 251
	„ „ „ „) M	„ „ „ „	5	1	0	170	1261	49·64 ...
	„ (Avontoun House) ...	C. C. Maconochie Esq. per SMS	5	0	6	117	1253	49·33 ...
	Queensferry (Hopetoun)	R. W. Meikle, Esq.	8	7	10	327	1004	39·51 ...
	Bo'ness (Neidpath Cottage)	Mr. J. Grant	5	3	0	200	863	33·96 ...
3.—CLYDE—Right Bank Tributaries. 1 sq. mi.								

STATIONS.	AUTHORITIES.	Rain Gauge.		Depth of Rain.		Days with ≥ 0.1 in. or more	
		Diam. in.	Height Above Ground Sea Level ft. in. feet.	1916 mm. inches.			
LANARK. (Area, 881 sq. mi.)							
1.—TWEED, UPPER—Left Bank Tributaries. 20 sq. mi.							
D Biggar	J. Eunson, Esq.	8	1 0	691	1147	45.17	238
D „ (Cambus Wallace)	T. W. M. Watson, Esq.	6	0 6	748	1105	43.49	187
2.—ALMOND. 14 sq. mi.							
3.—FORTH—Right Bank Tributaries. 9 sq. mi.							
Airdrie (Forrestburn Reservoir)	J. Frew, Esq., <i>per</i> S.M.S.	8	0 6	720	1255	49.40	...
4.—CLYDE—Right Bank Tributaries. 378 sq. mi.							
Coulter Reservoir	No. 2 W. Ross, Esq., C.E.	11	1 0	...	1612	63.45	...
„	No. 1 „ „ „	11	1 0	...	1579	62.17	...
Lamington (Cowgill Reservoir)	J. Chisholm, Esq., C.E.	5	1 0	970	1529	60.21	...
D „ Gardens	Mr. A. Milne, <i>per</i> S.M.S.	5	1 4	800	1118	44.03	208
D Biggar (Shieldhill)	Miss Dunlop	5	1 2	850	1135	44.67	...
D „ „	„ „ „	5	on roof	850	1004	39.51	248
Lanark (Rhyber Lodge)	R. Swann, Esq.	6	3 0	650	1102	43.40	...
D Cleghorn Gardens	Mrs. Elliott Lockhart	5	0 6	720	1162	45.76	201
Carluke (Coldstream Reservoir)	W. Ross, Esq., C.E.	11	1 0	800	1227	48.30	...
„ (Mauldslie Castle)	Mr. D. Bryson	5	1 0	140	1050	41.32	...
D Motherwell (Dalzell Gardens)	Mr. W. Mackie	6	5 6	170	1115	43.88	220
Wishaw (Orchardlea)	T. Swinnerton, Esq.	6	0 11	450	1165	45.87	...
Glasgow (Tollcross Park)	J. Whitton, Esq.	5	0 6	85	1167	45.95	225
D „ Observatory	(R) J. Connell, Esq.	11	2 0	182	1122	44.19	236
„ (Kelvingrove Park)	J. Whitton, Esq.	5	0 6	48	1154	45.44	208
„ (Springburn Park)	„ „ „	5	0 6	352	1192	46.93	247
„ „ „	Meteorological Office	8	1 0	351	1170	46.06	239
†Airdrie (Broomknoll Street)	J. Chisholm, Esq., C.E.	5	1 0	402	1218	47.95	227
D „ (Rosemount)	A. B. Motherwell, Esq.	5	1 6	570	1341	52.81	228
D „ (Hillend Reservoir)	Mr. W. A. Ritchie	5	3 6	620	1241	48.87	231
†Clarkston (Roughrigg Reservoir)	J. Chisholm, Esq., C.E.	5	1 0	661	1285	50.58	...
D Gartcosh (Gartloch Hospital)	Mr. James McEwen	5	1 1	291	1276	50.25	256
5.—CLYDE—Left Bank Tributaries. 448 sq. mi.							
D†Leadhills	J. McFarlane Esq. <i>per</i> MOS	5	1 1	1310	2040	80.30	222
†Strathaven (Glengavel Reservoir)	J. McMillan, Esq., C.E.	5	1 0	880	1524	60.00	241
„ (Dungavel)	J. D. Wallace, Esq. <i>per</i> SMS	5	1 0	800	1573	61.92	226
† „ (Kype Reservoir)	W. H. Purdie, Esq.	11	3 0	941	1311	51.60	182
„ (Dunside Reservoir)	J. McMillan, Esq., C.E.	5	...	1010	1448	56.99	217
D „ (East Overton House)	H. Lee Dykes, Esq.	5	1 0	700	1465	57.66	226
D Stonehouse (Road Exper. Stat.)	J. Watson, Esq.	5	1 0	525	1234	48.57	217
„ (Glassford Filters)	J. McMillan, Esq., C.E.	5	...	750	1373	54.07	233
Hamilton W.W. (Townhill)	W. H. Purdie, Esq.	7	1 0	436	1223	48.15	...
D „ (Laighstone Hall)	Rev. T. M. B. Paterson	5	1 9	260	1212	47.71	226
„ Palace	J. Macaulay, Esq. <i>per</i> MOS	140	1103	43.44	211
Busby (Thornton Hall)	A. Henderson Bishop, Esq.	5	1 0	441	1200	47.26	...
D Carmunnock (Carnbooth)	R. Robertson, Esq., C.E.	5	1 0	365	1285	50.59	256
Cambuslang (Greenlees Filters)	J. McMillan, Esq., C.E.	8	...	322	1227	48.30	169
6.—IRVINE. 2 sq. mi.							
7.—AYR. 1 sq. mi.							
8.—NITH. 2 sq. mi.							
9.—ANNAN. 7 sq. mi.							

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.		Days with 0·1 in. or more
		Diam. in.	Height Above Ground Sea Level		1916		
		ft.	in.	feet.	mm.	inches.	
A.Y.R. (Area, 1135 sq. mi.)							
1.—CLYDE—Left Bank Tributaries. 20 sq. mi.							
Glenarnock (Chemical Works) ..	G. Harrower, Esq.....	8	1 6	100	1496	58·91	200
2.—FIRTH OF CLYDE. 60 sq. mi.							
Largs (Curling Hall).....	J. Clark-Neill, Esq.	1126	44·31	...
Shaws Water Works (Kelly Dam)	D. Macalister, Esq., C.E.	6	1 0	640	1844	72·60	...
" " (Knockencorsan) ..	" " "	6	1 0	1040	1776	69·90	...
3.—IRVINE & C. 283 sq. mi.							
Ayr (Collier Row, St. Quinox)...	Allan Stevenson, Esq. ...	5	1 6	93	992	39·07	224
Irvine (Gailes)	H. McMillan, Esq.....	5	1 0	12	908	35·73	215
Kilmarnock(Agricultural College)	Prof. R. A. Berry	8	1 2	80	1091	42·96	253
" (North Craig Res.)....	R. Blackwood, Esq.	12	1 0	319	1186	46·70	...
Kilwinning (Eglinton Castle) ...	Mr. W. Priest.....	5	1 0	50	1072	42·20	177
Stevenston (Greenhead Filters)...	Gilbert Christie, Esq., C.E.	5	1 0	186	1040	40·95	220
Dalry (Blair Gardens)	Mr. J. Fairley.....	5	0 6	155	1412	55·60	233
" (Munnock Reservoir)	Gilbert Christie, Esq., C.E.	5	1 0	325	1285	50·58	209
" (Caaf Reservoir).....	" " "	5	1 3	515	1367	53·82	208
" W.W. (Filters).....	Mr. W. Wightman	5	1 0	320	1326	52·22	229
" (Thirdpart)..... M	" " "	5	1 0	560	1368	53·86	...
" (Camphill Reservoir)	James Lee, Esq., C.E.....	12	1 6	611	1614	63·55	...
Beith (Filter Station)	W. C. Dale, Esq.	5	6 0	384	1248	49·15	223
4.—A.Y.R. 222 sq. mi.							
Ayr (Airlie House)	Glasgow Herald	1062	41·82	...
" (Glendrishraig)	Miss Jean Murdoch	10	3 0	42	947	37·30	...
" Cemetery	J. Young, Esq., C.E.....	5	1 0	40	977	38·45	191
5.—DOON. 119 sq. mi.							
Loch Finlas.....	J. Young, Esq., C.E.....	5	1 0	849	1489	58·63	...
Dalmellington (Benwhat).....	A. Gillespie, Esq.	5	...	1177	1761	69·33	212
Maybole (Knockdon Farm) ... M	Mr. W. Muir	5	1 6	352	1063	41·84	...
" " " ") ... M	" " " " "	8	1 6	352	985	38·77	...
Patna (County Filters).....	MssrsJ&HV EagleshamCE	11	1 0	743	1489	58·63	...
Ayr (Doonholm).....	J. Kennedy, Esq.	5	1 0	90	1129	44·44	196
6.—CULZEAN BAY & C. 32 sq. mi.							
Turnberry (Lighthouse)	Board of Northern Lights	897	35·33	198
" (Hotel)	Mr. J. Richards	5	1 0	97	752	29·60	191
7.—GIRVAN. 105 sq. mi.							
Girvan (Glendoune Gardens) ...	Mr. J. Simons	5	1 0	100	1126	44·34	167
" (Sunnyside, Golf Course)	D. Macdonald, Esq.	5	1 0	27	1010	39·78	214
Loch Bradan	MssrsJ&HV EagleshamCE	11	1 0	991	1580	62·19	...
8.—STINCHAR & C. 155 sq. mi.							
Colmonell (Knockdolian)	Mr. A. Ogg, per M.O.S. ..	5	1 0	170	1105	43·52	229
Girvan (Pinmore) ..	Miss Hamilton	5	0 5	207	1312	51·64	233
Barr Manse	Rev. G. Dods.....	5	1 0	330	1311	51·60	208
9.—LOCH RYAN. 12 sq. mi.							
10.—LUCE BAY. 15 sq. mi.							
Ballantrae (Lagafater Lodge) ...	C. R. Boulton, Esq.	5	0 11	792	1724	67·88	211
11.—CREE. 40 sq. mi.							
12.—DEE. 9 sq. mi.							
13.—NITH. 62 sq. mi.							
New Cumnock (Ayr Sanatorium)	Dr. E. E. Prest	5	1 0	850	1607	63·28	236
" " (Power Station)...	James Jack, Esq.	5	1 0	764	1887	74·29	177

DIVISION XIV.—SOUTH WESTERN COUNTIES (*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground SeaLevel			1916		
		in.	ft.	in.	feet.	mm.	inches.	
AYR—(con.) 14.—INSULAR. 1 sq. mi. Ailsa Crag.....	Board of Northern Lights	3	5	0	...	636	25.05	176
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	1798	70.77	246
Gorbals Dist. W. W. (Nether Cairn)	J. R. Sutherland, Esq., C.E.	12	0	5	700	1606	63.25	...
" " " (Middleton) ..	" " " "	12	0	5	550	1502	59.15	...
" " " (Ryat Lynn) ..	" " " "	8	0	5	310	1363	53.65	...
" " " (Waulk Glen)	" " " "	12	0	5	280	1323	52.10	...
Paisley W. W. (Muirhead)	James Lee, Esq., C.E.	12	1	0	482	1546	60.85	...
" " " (Springside)	" " " " "	12	1	0	532	1769	69.65	...
" " " (Back Thornleymuir)	" " " " "	12	1	0	646	1469	57.82	...
" " " (Stanely)	" " " " "	12	1	0	190	1234	48.59	...
d Barrhead (Arthurlee House) ...	Mrs. H. B. Dunlop	6	1	0	400	1499	59.01	157
Pollokshaws (Pollok House)	Sir J. S. Maxwell Btper SMS	5	1	0	45	1181	46.50	...
d Glasgow (Queen's Park)	J. Whitton, Esq.	8	0	9	144	1119	44.05	229
Kilbarchan (Miliken Park)	M. Douglas Anderson, Esq.	6	1	6	75	1194	47.00	...
d " " " (Glentyan)	(R) R. H. Hunter, Esq.	8	3	9	285	1583	62.34	250
d† Paisley (The Coats Observatory)	Observatory Committee ...	8	1	0	107	1238	48.72	242
d Crookston (Road Exper. Stat.) ...	R. Drummond, Esq.	5	1	0	65	1264	49.77	194
Kilmacolm Water Works	late D. S. Carson, Esq. ...	5	1	0	500	1872	73.70	...
Shaws W. W. (Duchall Moor) ...	D. Macalister, Esq., C.E.	6	1	0	1150	1919	75.55	...
" " " (Creuch Hill)	" " " " "	6	1	0	1350	1613	63.50	...
" " " (Green Water) ...	" " " " "	6	1	0	788	1728	68.03	...
Kilmacolm	Mr. R. Blackwood	5	1	0	300	1504	59.22	217
" " " (St. Oswald's) ... (R)	late D. S. Carson, Esq. ...	5	1	0	350	1457	57.35	...
d Shaws W. W. (Gryfe Reservoir) ..	D. Macalister, Esq., C.E.	6	1	0	640	1773	69.79	250
d " " " (Mansfield)	" " " " "	5	1	0	573	1748	68.84	250
" " " (Darndaff Moor) ...	" " " " "	5	1	0	850	1683	66.26	...
Bishopton (Ingliston)	D. Cross, Esq.	5	1	0	195	1259	49.56	...
3.—FIRTH OF CLYDE. 34 sq. mi.								
Shaws W. W. (Largs Road)	D. Macalister, Esq., C.E.	5	1	0	910	1560	61.40	...
Dougliehill Filters (Pt. Glasgow W. W.)	James Murray, Esq.	8	1	6	540	1526	60.06	...
Parkhill " " " " " "	" " " " " "	8	1	6	275	1297	51.06	...
d Shaws W. W. (Compensation Res.)	D. Macalister, Esq., C.E.	5	1	0	600	1881	74.07	273
d " " " (Loch Thom)	" " " " "	5	1	0	643	1835	72.24	272
" " " (Shielhill)	" " " " "	6	1	0	962	1763	69.40	...
" " " (Spango Burn) ...	" " " " "	6	1	0	757	1933	76.10	...
d " " " (Hole Glen)	" " " " "	5	1	0	603	1734	68.28	267
d " " " (New Yetts Dam) ..	" " " " "	5	1	0	800	1743	68.63	267
d Port Glasgow (Broadfield)	late J. P. Harrington, Esq.	8	1	0	250	1497	58.94	240
d Greenock (Prospect Hill)	D. Macalister, Esq., C.E.	5	1	0	200	1730	68.09	250
Langbank (East Bank Gardens).	A. Cross, Esq.	5	3	3	150	1274	50.17	...
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			1916		
		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).....	Capt. Claud A. Allan.....	5	1	0	130	1237	48·71	236
D „ (Darleith)	Mr. J. Wilson.....	8	1	0	400	1430	56·28	242
D Helensburgh (Fernigair)	H. M. Ross, Esq., C.E....	8	1	0	22	1424	56·05	259
D „ (Valve House).....	„ „ „ „	8	1	0	293	1570	61·83	262
D Roseneath (Achnashie)	R S Campbell, Esq., per SMS	6	1	0	25	1695	66·75	196
Garelochhead (Aikenshaw)	Mr. W. S. Turnbull	6	1	0	32	1755	69·10	...
3.—CLYDE—Leven. 149 sq. mi.								
D Dumbarton (Leven Shipyard) ...	Messrs. W. Denny & Bros.	5	1	0	9	1274	50·17	226
Kilpatrick Hills (Burncrooks Res.) No.1	T. L. Rae, Esq., C.E.....	5	1	0	835	1297	51·08	...
„ „ („ „) No.2	„ „ „ „	5	1	0	959	1675	65·94?	...
„ „ („ „) No.3	„ „ „ „	5	1	0	920	1414	55·65	...
D Renton (Carman Filters)	Mr. Chas. Brown	8	4	0	292	1366	53·79	227
4.—CLYDE—Right Bank Tributaries. 59 sq. mi.								
D Drumchapel (Wasdale).....	F. C. Thomson, Esq.	5	1	0	68	1003	39·49	247
Milngavie (Douglaston)	Capt. R. M. Ker.....	5	1	0	157	1220	48·04	222
D Duntocher (Cochno Filters)	T. L. Rae, Esq., C.E.....	5	1	0	400	1412	55·57	223
Kilpatrick Hills (Greenside Res.)	„ „ „ „	5	1	0	876	1696	66·79	...
„ „ (Loch Cochno)...	„ „ „ „	5	1	0	909	1872	73·70	...
„ „ (Jaw Reservoir)	„ „ „ „	5	1	0	912	1903	74·92	...
STIRLING. (Area, 463 sq. mi.)								
1.—FORTH—Right Bank Tributaries. 263 sq. mi.								
Muiravonside Ho. [Linlithgow].	Mr. C. Leeder.....	5	4	8	175	1168	45·99	...
D Polmont (Vellore).....(R)	W. Brown, Esq.....	8	4	6	320	979	38·54	224
D Bonnybridge (Road Exper. Stat.)	W. Ballantine, Esq.	5	1	3	150	1249	49·16	182
D Falkirk (Inglewood, Laurieston)	„ „ „ „	5	1	3	133	1153	45·38	200
D „ (Westbank)	A. Nimmo, Esq.....	5	0	9	75	1142	44·96	223
„ (Ardenlea)	J. Aitken, Esq., F.R.S....	5	1	0	105	1169	46·02	224
„ (Kerse)	C. Brown, Esq.	8	1	0	18	1059	41·70	...
Little Denny Reservoir	C. Massie, Esq.	8	1	0	326	1385	54·54	...
„ „ Filters.....	„ „ „ „	8	1	0	268	1415	55·71	...
Kilsyth (Faughlin Res.)	„ „ „ „	8	1	0	707	1756	69·15	...
Earlsburn Reservoir	„ „ „ „	8	1	0	1202	1775	69·89	...
D Stirling (Touch W.W.) ... No. 3	A. H. Goudie, Esq.	8	1	9	759	1572	61·91	224
D „ („ „ „) ... No. 2	„ „ „ „	8	1	4	707	1520	59·83	224
D „ („ „ Reservoir) No. 1	„ „ „ „	8	1	0	455	1572	61·90	224
„ (Touch House).....	Sir D. A. S. Steuart, per SMS	5	1	0	35	1435	56·50	...
„	Stirling Observer .....	...	...	...	...	1121	44·13	...
„ (Victoria Place)	R. Kidston, Esq., F.R.S.	5	2	10	100	1092	43·01	...
† Buchlyvie (The Manse).....	Rev. J. A. Macdonald.....	5	1	3	118	1453	57·19	...
Gargunnoch House	Mr. D. McNeill	5	1	6	85	1290	50·80	...
D Kippen (Arngomery)	Mr. P. McCowan	5	4	2	150	1411	55·54	173
Duchray Valley (Ben Lomond)...	J. R. Sutherland, Esq., C.E.	8	0	6	1800	2068	81·40	...
D† „ „ (Glen Dhu) ...	„ „ „ „	8	1	0	500	2315	91·15	209
D† „ „ (Comer)	„ „ „ „	8	1	0	600	2468	97·15	210
„ „ (Achaidh Burn)	„ „ „ „	8	1	0	1200	2422	95·35	...
„ „ (Head of Main Stream)	„ „ „ „	8	1	0	950	2352	92·60	...

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

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above		Sea Level	1916		
		in.	ft.	in.	feet.	mm.	inches.	
STIRLING—(con.)								
2.—FORTH—Teith. 5 sq. mi.								
† Stronachlachlar (Invergyle)	J. R. Sutherland, Esq., C.E.	8	1	0	376	2211	87.05	214
3.—FORTH—Left Bank Tributaries. 15 sq. mi.								
† Bridge of Allan (The Lea)	Laurence Pullar, Esq.	5	1	0	80	1151	45.31	245
4.—CLYDE—Leven. 128 sq. mi.								
† Strathblane (Blanefield)	J. R. Sutherland, Esq., C.E.	8	1	0	250	1610	63.40	...
Kilpatrick Hills (Burncrooks Res.) No. 7	T. L. Rae, Esq., C.E.	5	1	0	955	1583	62.34	...
† Killearn (Achnagowan)	Miss Guthrie-Smith	5	0	10	332	2026	79.76	233
Loch Arklet (Corrieichon)	J. R. Sutherland, Esq., C.E.	8	0	6	870	2438	96.00	...
„ „ (Corriearklet)	„ „ „	8	0	6	950	2350	92.50	...
5.—CLYDE—Right Bank Tributaries. 52 sq. mi.								
† Torrance (Glenorchard)	Miss Bartholomew	5	1	6	200	1192	46.93	197
Strathblane (Mugdock Reservoir)	J. R. Sutherland, Esq., C.E.	8	0	6	320	1327	52.25	...
„ (Craigend Castle) ...	Mr. A. Davidson, per S.M.S.	5	0	9	665	1430	56.32	...
„ (Craigbarnet)	Capt. Miller Stirling, R.N.	5	1	0	300	1560	61.40	...
† Kilsyth (Innsbridge)	J. I. Little, Esq.	5	11	0	202	1469	57.83	221
„ (Corrie Reservoir)	„ „ „, per S.M.S.	...	...	...	...	1659	65.30	...
BUTE. (Area, 218 sq. mi.)								
1.—ISLE OF BUTE. 50 sq. mi.								
† Rothesay (Crichton Road)	H. Lauder, Esq., jun.	5	4	0	97	1466	57.72	266
„ (Ardencraig)	J. Davidson, Esq.	5	1	0	201	1351	53.19	261
„ („)	„ „ „	5	1	0	201	1327	52.26	263
Port Bannatyne (Ettrickdale) ...	Col. M. R. Gray Buchanan	5	1	0	190	1417	55.79	267
2.—CUMBRAES. 4 sq. mi.								
† Great Cumbrae (Millport)	J. Peden, Esq.	5	1	0	15	1096	43.16	246
3.—ARRAN. 164 sq. mi.								
Pladda	Board of Northern Lights	...	...	...	130	1011	39.81	185
Holy Island (Pillar Rock)	„ „ „	3	0	3	46	915	36.03	...
ARGYLL. (Area, 3181 sq. mi.)								
1.—TAY—Tummel. 36 sq. mi.								
2.—SOUND OF ARISAIG, SOUND OF MULL & C. 317 sq. mi.								
† Morvern (Ardtornish)	G. C. Sellar, Esq.	5	1	0	48	1809	71.22	249
„ (Drimnin)	Mrs. Gordon	5	1	0	225	1504	59.20	245
† Loch Sunart (Glenborrodale) ...	the late C. D. Rudd, Esq.	5	0	2	60	1736	68.33	256
Ardnamurchan	Board of Northern Lights	8	4	3	180	1188	46.78	...
3.—LOCH LINNHE—Right Bank Tributaries. 139 sq. mi.								
† Morvern (Kingairloch)	G. Herbert Strutt, Esq.	5	1	0	40	2464	97.01	225
Ardgour House	Miss Maclean	5	0	10	60	2623	103.27	250
4.—LOCH LINNHE—Left Bank Tributaries. 165 sq. mi.								
Duror (The Rectory)	Rev. E. J. Benwell	5	1	0	120	2004	78.89	245
† Ballachulish House	Mr. W. D. Stewart	5	1	0	56	2191	86.26	227
„ (Glencoe Gardens) ...	J. D. Sutherland, Esq.	8	1	0	20	2204	86.76	...
† Glenleven (Blackwater Dam, S.) 2	British Aluminium Co. Ltd	8	1	0	1072	2407	94.78	261
„ (Kinlochleven) No. 1	„ „ „	8	1	0	140	2280	89.77	245
Loch Eil (Corran)	Board of Northern Lights	3	1	6	38	2329	91.68	226

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
ARGYLL—(con.)								
5.—LOCH ETIVE. 197 sq. mi.								
D Taynuilt (Barguilean)	T. Macdonald Esq. per SMS	...	...	...	230	1856	73.05	186
D Cannel Ferry (Ach-na-cloich)	late T. A. Nelson, per S.M.S.	...	...	...	...	1628	64.08	208
D Glen Etive	Ian T. Nelson Esq. per S.M.S.	...	...	...	50	2869	112.95	21
6.—LOCH ETIVE—Loch Awe. 319 sq. mi.								
D Loch Awe (Ford)	J. Boyd, Esq.	8	1	0	148	1947	76.66	278
D " " (Dalavich)	" " "	8	1	0	283	2081	81.95	252
D Dalmally (Manse of Glenorchy)	Rev. Farquhar MacRae	5	1	0	150	2231	87.84	227
7.—FIRTH OF LORNE. 112 sq. mi.								
D Kilmelfort (Arduaine)	J. A. Campbell, Esq.	5	0	10	23	1598	62.90	238
D† Oban	Dr. E. Bailly	8	1	0	17	1410	55.52	239
8.—SOUND OF JURA. 163 sq. mi.								
D Lochgilphead (Poltalloch)	Mr. D. S. Melville	5	1	2	135	1597	62.89	236
D Ardferrn (Innisaege)	Mr. John Strang	5	3	7	100	1364	53.68	228
9.—KINTYRE, WEST. 146 sq. mi.								
Mull of Kintyre	Board of Northern Lights	...	...	...	279	1126	44.33	217
D Muasdale (Killeen Manse)	Rev. D. J. Macdonald	5	1	0	30	1104	43.48	245
D Largie Castle	J. R. M. Macdonald, Esq.	5	1	0	160	1030	40.57?	244
D Carse	J. Birkmyre, Esq., jun.	6	1	6	20	1059	41.68	257
10.—KINTYRE, EAST. 177 sq. mi.								
D† Campbeltown (South Park)	J. A. Gardiner, Esq.	8	0	10	20	1244	48.96	245
D† " (Witchburn)	Mr. John Giffen	5	1	6	75	1201	47.29	232
D " (Devaar)	Board of Northern Lights	...	3	4	120	1166	45.91	200
D Skipness Castle	Mr. D. C. Coutts	5	1	6	14	1334	52.54	249
11.—LOCH FYNE. 264 sq. mi.								
D Otter Ferry (School House)	Mrs. Stewart	5	1	0	37	1254	49.35	227
D Ardrishaig (Canal Office)	L. J. Groves, Esq., C.E.	5	1	0	48	1796	70.70	222
Loch Fyne (Castle Lachlan)	J. McLachlan, Esq. per SMS	5	1	0	42	1831	72.08	...
D " " (Furnace)	W. Nicol, Esq.	5	3	0	15	1848	72.76	232
D " " (" " Brenchoillie)	A. E. Lewis, Esq.	5	1	0	240	2016	79.36	188
D† Inveraray Castle Gardens	" " "	5	1	0	40	2373	93.41	230
D " (Stronshira)	Rev. Gillespie Campbell	5	1	0	10	2240	88.20	...
D Ardkinglas	Mr. J. Payne	8	1	6	37	1754	69.06	252
D Glen Aray (Ladyfield)	A. E. Lewis, Esq.	5	0	9	400	2731	107.52	226
D Glen Shira (Drimlie)	Mr. Dugald McIntyre	5	1	6	400	2062	81.16	...
12.—FIRTH OF CLYDE & COWAL. 242 sq. mi.								
Innellan	Miss Mair	6	0	8	15	1489	58.63	...
D Tighnabruaich (Wellpark)	R. Paton, Esq.	12	5	0	50	1601	63.03	217
D Dunoon (Castle Gardens)	W. Rodger, Esq., C.E.	12	3	6	56	1947	76.67	207
D " (Reservoir)	" " "	12	3	6	245	2190	86.20	229
D " (Redhurst)	Dr. J. Banks	12	1	6	60	1974	77.70	225
D Holy Loch (Ardnadam)	Rev. J. Cairns Mitchell	5	1	0	66	2184	86.00	230
D Loch Eck (Benmore)	Mr. R. Greenlaw	5	1	3	40	2298	90.46	207
D† Lochgoilhead (Nuthill)	G. Murray Knox, Esq.	5	1	0	15	2009	79.10	261
13.—CLYDE—Leven. 4 sq. mi.								
14.—INSULAR. 900 sq. mi.								
D Islay (Ardbeg)	Colin E. Hay, Esq.	5	7	0	46	1168	45.99	245
D " (Rhinn)	Board of Northern Lights	7	3	6	150	956	37.62	194
D " (Lochindaal)	" " "	3	0	6	52	1178	46.39	209
D " (McArthur's Head)	" " "	3	0	4	128	1423	56.04	...

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
ARGYLL—(con.)								
14.—INSULAR—(con.)								
D Islay (Eallabus)	J. Forbes, Esq.	5	1	0	68	1304	51.36	258
„ (Rhuvaal)	Board of Northern Lights	3	1	3	147	1128	44.42	181
D Jura (Ardfin)	Colin Campbell, Esq.	5	1	0	160	1404	55.27	248
„ (Fladda)	Board of Northern Lights	3	1	0	42	1548	60.94	189
Lismore (Mousedale)	„ „	7	3	10	105	1229	48.39	201
D Eriska (Ledaig)	Mr. J. B. Trotter, per S.M.S.	5	1	6	30	1506	59.31	226
D† Mull (Iona Manse)	Rev. A. Macmillan	5	1	2	45	1269	49.95	239
D† „ (Bunessan)	Duncan Cameron, Esq.	5	1	4	50	1239	48.77	246
D „ (Lochbuie Castle)	Mr. E. Lovesey	8	1	4	20	2300	90.54	252
D „ (Ulva)	F. W. Clark, Esq.	5	1	0	30	1601	63.04	258
D† „ (Knock)	John Cameron, Esq.	5	1	4	50	2048	80.61	192
D „ (Glencannel)	W. Jackson, Esq.	5	1	3	140	2718	107.00	205
D† „ (Gruline)	J. W. Melles, Esq.	8	1	0	101	1903	74.92	267
D „ (Quinish)	J. N. Forsyth, Esq.	5	1	3	35	1411	55.55	249
„ (Glengorm Castle)	Miss M. Lithgow	5	1	0	350	1285	50.59	...
„ Sound of	Board of Northern Lights	3	1	4	55	1625	63.96	186
† Tiree (Cornaigmore)	A. M. Ewan, Esq.	5	1	0	25	1059	41.70	...
Sanda	Board of Northern Lights	...	...	...	165	716	28.17	222

DIVISION XVI.—EAST MIDLAND COUNTIES.

CLACKMANNAN. (Area, 55 sq. mi.)

1.—FORTH, LOWER—Left Bank Tributaries. 55 sq. mi.								
Alloa House Gardens	Earl of Mar & Kellie, K.T.	5	2	6	40	1152	45.35	...
„ W.W. (Gartmorn Res.) ...	Andrew Mackie, Esq., C.E.	11	1	0	172	1083	42.64	...
D Tillicoultry (Westbourne)	J. Patterson, Esq., per SMS	...	...	...	...	1089	42.86	232
D Dollar (Wellhall, Dollarbeg) ..	James Bleloch, Esq.	5	0	9	265	1306	51.41	255

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	1336	52.58	232
2.—LEVEN & C. 67 sq. mi.								
Blairadam Wood [Kelty]	D. Mackenzie, Esq., C.E.	8	0	5	761	1440	56.68	192
D Loch Leven Sluice	Mr. W. Hay	8	0	9	360	1228	48.33	190
D Milnathort (Ledlanet)	J. C. Calder, Esq.	5	1	0	750	1589	62.57	194
3.—EDEN. 2 sq. mi.								
4.—TAY—Earn. 3 sq. mi.								

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	884	34.79	201
D Kincardine (Tulliallan)	J. C. Wilson, Esq.	5	1	0	80	1080	42.52	195
D Dunfermline (Broomhall Gardens)	Mr. J. Mitchell	5	1	0	15	1004	39.52	177
D „ (Victoria Place) ...	J. Blyth, Esq.	5	1	2	365	1239	48.79	213
D Culross (Westgrange)	J. J. Dalgleish, Esq.	5	0	2	116	969	38.14	215
„ (Luscar House) ... No. 1	Col. A. Mitchell	5	0	10	430	1223	48.14	...
„ („ „) ... No. 2	„ „ „	5	0	10	430	1220	48.05	...

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
FIFE—(con.)								
1.—FORTH, LOWER—Left Bank Carnock (Craiglusear)	Tributaries—(con.) P. C. Smith, Esq.	12	0	4	280	1277	50·27	...
2.—LEVEN & C. 208 sq. mi.								
D Dunfermline (Fordell House) ...	Earl of Buckinghamshire	5	1	0	250	1125	44·29	194
D Kirkcaldy (St. Peter's Rectory) ..	Rev. John S. Begg.....	5	1	0	85	970	38·21	214
D „ (Muttonhall Farm)	G. Donaldson, Esq.....	5	1	0	300	1040	40·94	227
D Cowdenbeath (Northbank)	J. S. Rae, Esq.	5	1	0	473	1438	56·61	211
Cleish Hills (Deanhead Farm)	„ „ „	5	1	0	725	1128	44·40	209
„ „ (Craigaverral) ... M	„ „ „	5	1	0	760	1317	51·84	...
„ „ (Roscobie Reservoir)	„ „ „	5	1	0	660	1234	48·60	...
„ „ (Loch Glow Res.) ...	D. Mackenzie, Esq., C.E.	8	0	7	897	1471	57·90	192
Leslie (Lothrie Reservoir)	Mr. R. Ritchie, per S.M.S.	5	0	5	702	1286	50·61	...
D Elie House (The Gardens)	Mr. A. A. Law	5	0	10	55	871	34·28	193
D „ (The Castle)	Miss E. E. Scott Moncrieff	5	0	9	...	835	32·88	205
Largo (Carlton)	Mr. E. Tate	5	1	6	150	1069	42·10	215
D Colinsburgh (Balcarres)	Mr. J. M. Paul	5	1	0	300	1012	39·86	200
„ (Lathallan)	Dr. W. H. Bryce	5	1	0	505	1027	40·44	194
D Carnbee (Ovenstone W.W.)	A. P. Watson, Esq.	5	1	0	168	874	34·40	177
3.—EDEN & C. 205 sq. mi.								
Ceres (Woodburn)	Ralph Richardson, Esq....	3	1	0	300	958	37·72	...
D „ (Castlebank)	J. Melville, Esq.	5	2	0	280	1214	47·81	201
D „ (St. Helens)	Rev. Robert Dick	5	1	6	265	1156	45·51	211
D Cameron Water Works	W. Watson, Esq., C.E....	5	1	0	478	1111	43·75	184
Cupar (Rankeillour)	Mr. J. McLaren, per S.M.S.	...	...	...	240	984	38·72	...
D „ „ „	Capt. J. Kerr	5	1	0	240	1058	41·67	180
D „ (Fife & Kinross Asylum) ..	Dr. J. H. Skeen	5	1	0	210	1025	40·35	214
D St. Andrews (Water Works)	W. Watson, Esq., C.E....	5	1	0	217	987	38·85	204
D „ „ (Queen's Gardens) ..	Miss Macadam	5	1	0	55	966	38·01	190
„ „ „	W. Watson, Esq. per M.O.S.	...	...	...	20	960	37·79	171
Kilmany (Lochmalony)	W. Marshall, Esq.	5	0	6	260	1055	41·54	...
4.—FIRTH OF TAY. 25 sq. mi.								
D Newport (Tayfield)	W. Berry, Esq.	5	0	7	100	1021	40·18	167
D Tayport (Lighthouse)	J. H. Thompson, Esq., C.E.	5	1	0	27	937	36·90	210
5.—TAY—Earn. 1 sq. mi.								
6.—INSULAR.								
Inchkeith	Board of Northern Lights	...	...	...	160	771	30·36	...
Isle of May	„ „ „	6	3	0	...	663	26·12	177
PERTH. (Area, 2535 sq. mi.)								
1.—FORTH—Right Bank Tributaries.	ies. 17 sq. mi.							
2.—FORTH, UPPER—Left Bank T	ributaries. 64 sq. mi.							
D Doune (Gartincaber)	R. Burn Murdoch, Esq....	5	1	0	145	1266	49·83	240
D† Aberfoyle (The Inn)	J. R. Sutherland, Esq., C.E.	8	0	6	60	1590	62·60	196
D† Loch Dhu	„ „ „	8	0	6	325	2215	87·20	206
Ledard	„ „ „	8	0	6	1500	2069	81·45	...
3.—FORTH—Teith. 221 sq. mi.								
Loch Drunkie	J. R. Sutherland, Esq., C.E.	8	0	6	420	1576	62·05	...
Ben Venue (Glasahoile)	„ „ „	8	1	0	1150	2061	81·15	...
† Loch Venachar	„ „ „	8	0	6	275	1549	61·00	...

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		1916			
		in.	ft.	in.	feet.	mm.	inches.	
PERTH—(con.)								
3.—FORTH—Teith—(con.)								
d† Bridge of Turk	J.R. Sutherland, Esq., C.E.	8	0	6	275	1727	68·00	177
Doune (Cauldhame)	J. Forbes, Esq.	5	1	0	830	1564	61·58	156
† Loch Katrine (Tunnel Hill Top)	J.R. Sutherland, Esq., C.E.	8	0	6	830	2281	89·81	...
Ben Ledi	No. 2 „ „ „	8	0	6	1400	1807	71·15	...
d† Achnahard	„ „ „	8	1	0	474	1805	71·05	188
Callander (Leny House)	J. H. Buchanan, Esq.	5	0	6	340	1615	63·60	...
† Strone Bridge	J.R. Sutherland, Esq., C.E.	8	1	0	380	1970	77·54	...
† Glen Meann	„ „ „	8	1	0	800	2040	80·30	...
Glen Finglas	„ „ „	8	1	0	1200	2145	84·45	...
d† Glengyle	„ „ „	8	0	6	380	2460	96·85	211
„ „ Upper	„ „ „	8	1	0	750	2520	99·20	...
Allt a' Choin	„ „ „	8	1	0	1250	2441	96·10	...
† Balquhidder (Blaircreach)	J. Carnegie, Esq.	5	1	0	460	2462	96·91	...
d† „ (Stronvar)	„ „ „	5	1	0	422	2058	81·02	193
4.—FORTH, LOWER—Left Bank Tributaries. 107 sq. mi.								
d Dunblane (Kippenross)	A. H. Anderson, Esq.	8	1	3	237	1333	52·49	265
„ (Kippendavie)	„ „ per S.M.S.	8	2	9	300	1361	53·59	...
Glendevon (Glenquey Reservoir)	D. Mackenzie, Esq., C.E.	11	0	11	945	1735	68·30	...
d „ (Tormaukin)	Mr. W. Phillips	5	1	6	770	1944	76·53	204
„ (Glensherup)	P. C. Smith, Esq., per S.M.S.	12	0	4	945	1976	77·78	...
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	1611	63·41	...
„ „ (Whitehill)	„ „ „	8	...	...	810	1675	65·94	...
Upper Farg (Plains)	„ „ „	8	...	...	900	1287	50·67	...
„ „ (Heatherieleys Quarry)	„ „ „	8	...	...	715	1307	51·44	...
„ „ (Main Bank)	„ „ „	5	...	...	...	1162	45·75	...
Auchterarder (Belhie)	Miss D. Cairns	5	0	10	100	1048	41·26	181
Abernethy (Ayton House)	Mr. J. Leslie, per S.M.S.	5	0	11	120	1225	48·22	...
Bridge of Earn (Ballendrick) ..	Capt. O. A. Taylor	5	1	2	50	1092	42·98	192
Crieff (Strathearn Hydro.)	Mr. G. Reid, per S.M.S.	5	1	0	436	1241	48·85	238
8.—TAY—Almond & c. 149 sq. mi.								
d Perth (Craigie Road)	Sydney Wilson, Esq.	5	1	0	56	1089	42·88	216
d „ (Wellshill Cemetery)	H. Coates, Esq.	5	1	0	77	1208	47·56	187
9.—TAY—Strathday below Dunkeld. 33 sq. mi.								
Murthly (Douglasfield)	W. A. Rae, Esq.	5	0	6	237	1208	47·55	...
„ (Glendelvine)	Alex. P. Lyle, Esq., per SMS	5	0	9	240	1045	41·15	...
d† Dunkeld (Snaigow)	W. H. Cox, Esq.	5	1	0	370	1160	45·68	206
10.—TAY—Bran. 81 sq. mi.								
d Dunkeld (Inver)	Charles McIntosh, Esq.	5	1	0	183	1284	50·55	231
11.—TAY—Strathday above Dunkeld. 95 sq. mi.								
d† Aberfeldy (Dall Avon)	Dr. N. D. Mackay	5	1	0	320	1231	48·47	219
d† „ (Dunros)	H. W. Johnston, Esq.	5	1	0	400	1158	45·57	226
12.—TAY—Loch Tay. 241 sq. mi.								
d Killin (The Manse)	Rev. G. W. Mackay	5	1	0	400	1841	72·47	201
d „ (Morenish Lodge)	Mr. J. Stewart, per S.M.S.	5	1	0	200	1611	63·41	218
d† Kenmore (The Manse)	Rev. W. A. Gillies	5	1	0	550	1402	55·21	219

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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
PERTH—(con.)								
13.—TAY—Lyon. 142 sq. mi.								
D Glenlyon (Meggernie Castle) ...	Mr. W. Taylor	5	1	0	760	1964	77·33	220
14.—TAY—Tummel. 587 sq. mi.								
D Loch Rannoch (Dall)	Mr. D. Robertson	5	1	0	772	1425	56·10	219
Pitlochry (Torrdarach)	W. Briggs, Esq., <i>per</i> S.M.S.	5	0	10	480	1160	45·66	...
D „ (Bonskeid)	G. F. Barbour, Esq.	5	1	0	540	1126	44·31	227
Fincastle House	C.R. Barbour, Esq. <i>per</i> SMS	5	1	0	980	1266	49·86	...
D Trinafour (Druimchruaidh)	A. D. Cameron, Esq.	5	1	0	850	1427	56·19	222
† Blair Atholl	Mr. D. McLachlan	5	1	0	420	1126	44·32	...
15.—TAY—Isla. 282 sq. mi.								
D Coupar Angus	R. Taylor, Esq.	5	2	2	183	1044	41·10	198
D Blairgowrie (Kinloch Manse) ...	G. Elder, Esq.	5	1	0	280	1019	40·13	206
D† Kirkmichael (Ballintuim House)	Miss M. A. Macdonald ...	5	1	4	700	1256	49·44	239
16.—TAY—Left Bank Tributaries. 51 sq. mi.								
Dunsinnar	J. Mackay Bernard, Esq. ...	...	...	...	400	1112	43·78	...
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	1096	43·15	195
Glamis Castle	Mr. T. Wilson	5	1	6	250	1082	42·58	...
D Forfar (Lilyfield)	D. M. Mackie, Esq.	5	0	5	225	1085	42·73	196
„ (Orchardbank Sew. Farm)	A. Watterston, Esq.	4	0	9	214	1025	40·35	...
D Kirriemuir (Lintrathen)	G. Baxter, Esq., C.E.	8	1	0	700	1023	40·27	193
„ („)	M „ „ „	8	1	0	700	1072	42·20	...
„ („ Balnakeilly) M „ „ „	M „ „ „	8	1	0	700	1067	42·00	...
„ („ Creich Hill, S.) M „ „ „	M „ „ „	8	1	0	1482	930	36·60	...
„ („ „ „ Top) M „ „ „	M „ „ „	8	1	0	1500	960	37·80	...
„ („ „ „ N.) M „ „ „	M „ „ „	8	1	0	1491	1016	40·00	...
2.—FIRTH OF TAY. 80 sq. mi.								
D Buddonness (Low Light)	J. H. Thompson, Esq., C.E.	5	1	0	27	1023	40·26	226
D Dundee (Harbour)	„ „ „	5	0	10	14	1012	39·84	187
„ (Eastern Necropolis) ...	Mr. A. Macrae	3	1	0	199	1026	40·40	...
D „ („ „) ...	„ „ „	5	1	0	199	1034	40·72	206
„ (Dens Works)	Messrs. Baxter Bros., Ltd.	5	on roof		119	1006	39·60	240
„ (Camperdown Works) ...	Messrs. Cox, Bros., Ltd.	5	1	2	290	1087	42·79	...
„ (Inniscarra)	H.G. Walker, Esq. <i>per</i> SMS	...	...	...	130	1013	39·87	...
D „ (Balruddery)	J. Martin White, Esq.	5	1	0	266	1055	41·52	190
D „ (Kirkton of Mains)	Alex. Duncan, Esq.	8	1	0	244	1066	41·96	195
Murroes (Craig Mills)	John Grant, Esq.	5	1	6	310	1119	44·05	...
3.—SOUTH ESK & C. 371 sq. mi.								
D Carnoustie	D. Maxwell, Esq., C.E.	8	1	0	39	972	38·26	216
D Craigton	G. Baxter, Esq., C.E.	8	1	0	484	1184	46·62	190
„	M „ „ „	11	3	0	484	1110	43·72	...
„ (Hillhead)	M „ „ „	11	3	0	570	1169	46·02	...
Crombie Reservoir	M „ „ „	11	3	0	522	1226	48·28	...

DIVISION XVI.—EAST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground. SeaLevel			1916		
FORFAR—(con.)								
3.—SOUTH ESK & C—(con.)								
d Arbroath (Dishland Hill)	Mr. J. Campbell.....	5	1	0	69	830	32.67	193
„ (Muirheads Reservoir)	S. L. Christie, Esq.	5	1	0	251	967	38.06	...
Forfar (Pitscandly)	W. T. Farquhar, Esq. ...	5	1	9	300	1107	43.60	...
Montroseness	Board of Northern Lights	3	1	0	124	847	33.34	177
d Montrose (Melville Gardens) ...	S. L. Christie, Esq.	5	9	0	20	846	33.29	177
d Forfar W.W. (Den of Ogil).....	A. Watterston, Esq.	12x4	0	3	633	1309	51.53	225
d Glenogil Waterworks	S. L. Christie, Esq.	5	1	0	700	1300	51.17	184
d Glen Prosen (Pearsie House) ...	Mr. K. McKenzie	5	1	0	600	1222	48.12	227
d „ „ (Lednathie)	Mr. W. G. Lindsay	5	1	0	720	1316	51.82	184
d „ „ (Balnaboth Gardens)	Mrs. Ogilvie	5	1	0	965	1444	56.86	170
4.—NORTH ESK & C. 213 sq. mi.								
d Montrose (Sunnyside Asylum)...	Dr. C. J. Shaw	5	0	10	200	922	36.30	186
d „ (Kinnaber W.W.).....	S. L. Christie, Esq.	5	1	0	38	914	35.97	196
Logie Pert (Loanhead of Craigo)	Mr. G. D. Cramond	5	0	9	200	1030	40.57	...
Brechin (Stracathro Gardens) ...	Mr. A. Dunlop	5	1	0	200	1033	40.66	...

DIVISION XVII.—NORTH EASTERN COUNTIES.

KINCARDINE. (Area, 382 sq. mi.)

1.—NORTH ESK & C. 99 sq. mi.								
d† Fettercairn (The Burn)	Col. C. McInroy, C.B.	5	0	11	250	1156	45.52	209
„ (Police Station)	Mr. A. Mackenzie	5	1	0	230	1160	45.65	216
† „ (Fasque Gardens)	Sir J. R. Gladstone, Bart.	5	1	0	320	1190	46.85	200
2.—BERVIE, COWIE & C. 139 sq. mi.								
Todhead	Bd. of Northern Lights...	3	4	0	135	896	35.27	158
d Stonehaven (Mains of Cowie) ...	John Hart, Esq.	5	1	0	93	853	33.59	217
Girdleness	Board of Northern Lights	7	4	0	185	782	30.80	...
3.—DEE. 144 sq. mi.								
† Strachan (Bridge of Dye)	Sir J. R. Gladstone, Bart.	5	1	0	515	1459	57.44	219
Crathes (Spyhill)	Mrs. L. Cunningham ...	5	1	0	510	1225	48.22	...
d† „ (Crossroad, Durris)	A. Macdonald, Esq.	5	1	0	420	1080	42.50	220
Durris House [Drumoak]	Mr. A. Reid	5	3	6	200	1053	41.44	...
d† Banchory (Invercarnie)	Cecil H. Roberts, Esq., C.E.	5	1	0	205	1173	46.18	202
† Crathes (Pinewood)	James Smith, Esq.	5	1	0	145	1071	42.14	225
„ Castle	Mr. J. Petrie	5	1	0	240	1061	41.78	...
Banchory (Hirn)	Mr. W. Caird	5	1	0	287	1048	41.24	...

ABERDEEN. (Area, 1974 sq. mi.)

1.—DEE. 672 sq. mi.								
d† Braemar (Bank)	A. M. Shirran, Esq.	5	1	0	1114	1215	47.82	206
† „ (Derry Lodge) ... No. 6	Cecil H. Roberts, Esq., C.E.	5	1	0	1400	1146	45.12	...
d† Balmoral Castle Gardens	Mr. J. M. Troup, M.V.O.	8	1	0	927	1073	42.25	216
d Abergeldie Castle	Mr. R. F. Chalmers	5	1	0	...	1124	44.24	251
d Ballater (Irrigation Farm)	Cecil H. Roberts, Esq., C.E.	5	1	0	637	1181	46.49	192
d† Glen Gairn (Gairn Shiel Lo.) No 14	„ „ „	5	1	0	1100	1201	47.29	253
† „ „ (Corndavon Lodge) No 13	„ „ „	5	1	0	1382	1345	52.94	...

DIVISION XVII.—NORTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Day with '01 in. or more
		Diam.	Height Above		Sea Level	1916		
		in.	ft.	in.		feet.	mm.	inches.
ABERDEEN—(con.)								
1.—DEE—(con.)								
D Torphins (School House)	J. W. Williams, Esq.	5	1	6	410	974	38·36	190
D Drumoak (Drum Castle)	Mrs. A. F. Irvine	8	4	0	320	923	36·35	218
† Cromar (Logie Coldstone School) ..	JB Anderson, Esq. <i>per</i> MOS	5	1	0	608	1135	44·68	256
D† „ („ „ „ Loanhead)	Mr. A. Farquharson	5	1	0	743	1066	41·98	238
Aberdeen (Mannofield Reservoir) ..	Cecil H. Roberts, Esq., C.E.	5	1	0	171	939	36·97	252
D† „ (Cranford House)	Mr. W. C. Smith	5	1	0	120	920	36·21	217
D „ (Cornhill Road)	J. B. Innes, Esq.	5	1	0	150	994	39·15	220
„ (Forehill Works)	Scot. Meteorological Soc. ....	...	...	...	115	863	33·97	...
2.—DON. 512 sq. mi.								
† Aberdeen (King's College)	Meteorological Office	11	2	0	44	904	35·59	224
D „ „ „ „ „ „)	„ „ „ „ „ „)	8	1	0	43	892	35·14	226
† Strathdon (Estates Office)	C. Christie, Esq.	5	1	2	990	1186	46·69	215
D Alford (Lynturk Manse)	Rev. J. B. Duncan	5	1	0	600	1044	41·11	224
D Dyce (Parkhill House)	J. E. Crombie, Esq.	8	0	11	170	983	38·71	222
New Machar (Straloch)	Mrs. Irvine .....	...	...	...	320	1052	41·43	...
Inverurie (Westfield)	James Skinner, Esq.	5	1	0	...	895	35·25	...
3.—YTHAN & C. 285 sq. mi.								
D Ellon (Esslemont)	Col. J. Wolrige Gordon ...	5	1	8	100	876	34·47	224
D House of Schivas	Earl of Haddo	5	0	9	200	866	34·09	202
D Fyvie Castle	Col. C. R. Burn, M.P.	5	0	6	200	1064	41·87	196
4.—UGIE & C. 257 sq. mi.								
Buchanness	Board of Northern Lights	3	3	0	130	747	29·42	155
D New Deer Schoolhouse	H. Cowie, Esq.	5	1	0	397	915	36·04	234
Peterhead (Thunderston)	Miss Oldman	5	1	1	150	754	29·69?	154
D „ (Mains of Buthlaw) ...	W. Johnston, Esq.	5	1	6	120	890	35·03	197
D Brucklay Castle	A Dingwall Fordyce Esq. <i>per</i> M.P.	8	1	0	300	968	38·13	233
Kinnairdhead	Board of Northern Lights	3	2	6	120	609	23·99?	155
5.—DEVERON & C. 248 sq. mi.								
Huntly (Union Bank)	Alex. Smith, Esq.	5	1	0	405	981	38·62	...
„ (Cruchie)	A. Joss, Esq., <i>per</i> S.M.S.	5	4	0	400	977	38·46	...
BANFF. (Area, 630 sq. mi.)								
1.—YTHAN. 1 sq. mi.								
2.—DEVERON & C. 344 sq. mi.								
D Drummur Castle	T. Gordon Duff, Esq.	5	1	0	605	1225	48·22	245
D Keith Station	Mr. A. Kennedy	5	1	0	364	922	36·32	242
Buckie (Roughonnie)	W. Hendry, Esq.	5	1	4	400	842	33·16	...
„ („ „ „)	„ „ „ „	5	1	4	364	858	33·78	...
„ „ „ „ „ „)	„ „ „ „	5	1	4	76	794	31·28	...
D Banff (Duff House)	A. B. Weir, Esq.	5	1	0	5	765	30·12	200
Cullen House Gardens	Mr. F. Low	5	0	11	100	873	34·36	...
3.—SPEY—Right Bank Tributaries. 285 sq. mi.								
D Dufftown (Victoria Terrace) ...	Miss Walker	5	2	0	579	1217	47·90	235
D Aberlour Orphanage	J. G. White, Esq.	5	1	0	350	1073	42·26	218

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	1916		
		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.	Mr. C. Webster	5	1	0	107	910	35·84	226
d 3.— SPEY—Left Bank Tributaries. 133 sq. mi.	W. Duncan, Esq.	5	1	1	700	1036	40·80	222
d † Grantown-on-Spey	Charles Watt, Esq.	5	1	0	600	1020	40·17	228
Knockando (Schoolhouse).....								
4.— LOSSIE & C. 154 sq. mi.								
Pluscarden (Westerton House)...	P. Oswald, Esq., <i>per</i> S.M.S. ...	...	...		250	989	38·93	...
d Lhanbryde (Blackhills House)...	T. N. Christie, Esq. <i>per</i> SMS ...	...	...		...	773	30·45	231
Elgin (The Manse).....	Rev. Dr. R. Macpherson... 6	1	3		38	817	32·17	...
„ (East End School)	<i>Aberdeen Journal</i> .....	...	...		...	836	32·91	...
d Duffus House	Mr. W. Ogg	5	1	0	55	771	30·35	194
Covesea Skerries	Board of Northern Lights 7	3	6		52	612	24·11?	161
5.— FINDHORN & C. 148 sq. mi.								
Darnaway Castle Gardens.....	Earl of Moray, <i>per</i> S.M.S. 5	1	3		200	907	35·71	...
d Brodie (Earlsmill House)	James Fenwick, Esq. 5	0	10		140	880	34·64	213
d Forres (Altyre)	J. Finlayson, Esq., <i>per</i> SMS ...	...	...		140	917	36·09	217
„ (Knockonnie)	W. Fraser, Esq., <i>per</i> S.M.S. 6	0	10		100	845	33·26	...
Kinloss House	Mrs. Mackessack	5	1	3	23	801	31·55	...
NAIRN. (Area, 163 sq. mi.)								
1.— FINDHORN & C. 102 sq. mi.								
d Ardelach (Glenferness).....	Mr. A. McKenzie	8	1	6	750	1188	46·76	208
2.— NAIRN & C. 61 sq. mi.								
Cawdor Castle	(R) Mr. D. Chapman	8	4	3	225	1177	46·34	183
d Nairn (Achareidh).....	H. A. Clarke, Esq. 8	1	0		59	885	34·86	231
„ (Delnies)	Meteorological Office..... 8	1	9		84	932	36·75	253

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	925	36·42	203
3.— SPEY—Left Bank Tributaries. 257 sq. mi.								
d Cluny Castle	Mr. A. Macdonald	5	1	2	900	1103	43·43	242
Kingussie	<i>No. 1</i> Dr Wde Watteville <i>per</i> MOS 5	1	0		840	1082	42·60	231
d Kincaig (Inshriach).....	J. Macdonald, Esq. 5	1	3		750	939	36·97	151
d Alvie Gardens	Mr. J. G. Fraser..... 5	1	3		800	1144	45·04	238
d† Aviemore (Rothiemurchus)	W. Dempster, Esq. 5	1	0		706	1170	46·08	237
Carrbridge Manse	Rev. A. Doag, <i>per</i> S.M.S. 5	0	11		850	959	37·76	...
d† Muckerach Lodge [Grantown]...	Mr. J. Fraser	5	1	3	760	972	38·28	223
4.— FINDHORN. 164 sq. mi.								
5.— NAIRN & C. 131 sq. mi.								
Croy (Dalcross Castle)	The MacKinnon of MacKinnon 5	0	6		400	999	39·32	200

DIVISION XVIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain		Days with 0.1 in. or more
		Diam.	Height Above Ground. Sea Level			1916		
		in.	ft.	in.	feet.	mm.	inches.	
INVERNESS—(con.)								
6.—NESS—Right Bank Tributaries 252 sq. mi.								
D Fort Augustus (St. Benedict's)...	Rev. C. von Dieckhoff.....	5	1	0	68	1517	59.73	239
Loch Ness (Killin, Whitebridge).	British Aluminium Co. Ltd	8	1	0	1200	1654	65.11	...
D „ „ (Garthbeg).....	„ „ „	8	1	0	645	1229	48.37	224
„ „ (Foyers).....	„ „ „	8	1	6	52	1307	51.46	207
„ „ (Aberchalder)	„ „ „	8	1	0	700	1148	45.21	...
7. NESS—Garry & c. 185 sq. mi.								
Loch Quoich (Loan).....	M. W. M. Christy, Esq.	5	1	6	650	4768	187.70	...
D „ „ (Kinlochquoich) ...	Col. D. W. Cameron	5	1	0	560	3659	144.04	238
D „ „ (Glenquoich)	T. MacKenzie, Esq. per SMS	5	1	2	569	3333	131.23	253
Glen Garry (Inchlaggan)	Mr. M. Matheson	5	1	0	370	2143	84.37	278
Invergarry Gardens	Mr. G. Robertson	5	1	0	130	2135	84.04	...
8.—NESS—Moriston. 120 sq. mi.								
9.—NESS—Enrick. 131 sq. mi.								
D Drumnadrochit	Mr. Angus Grant	5	1	0	138	1249	49.19	239
D Inverness (High School)	W. G. MacConnachie, Esq.	5	1	0	98	888	34.95	193
10.—BEAULY. 341 sq. mi.								
11.—CROMARTY FIRTH. 13 sq. mi.								
12.—SOUND OF SLEAT. 259 sq. mi.								
D Loch Nevis (Inverie Gardens) ...	Mr. J. Huggins	5	0	6	10	2305	90.74	245
D Glenelg Manse	Rev. A. Mactaggart	5	1	0	85	1368	53.84	230
13.—SOUND OF ARISAIG. 126 sq. mi.								
D Moidart (Kinlochmoidart).....	J. C. Stewart, Esq.	5	1	3	13	1820	71.64	228
D „ „ (Roshven)	Mrs. Blackburn	5	1	0	40	1760	69.31	250
Loch Ailort (Inverailort)	John McKerlich, Esq. ...	5	1	6	0	2173	85.54	...
D Arisaig (Faire-na-Sguir)	Miss C. C. Astley	5	1	10	30	1487	58.55	244
D „ „ House	Mr. W. Grant	5	1	0	30	1717	67.61	243
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	2425	95.47	239
D „ „ (Glen Dessary)	„ „ „	5	1	0	300	3197	125.87	233
Clunes	C. Mackenzie, Esq. per SMS	5	1	0	128	2459	96.80	...
16.—LOCHY—Left Bank Tributaries. 362 sq. mi.								
Loch Lochy (Invergloyle)	Lt.-Col. C. R. Elliot	5	1	0	202	1510	59.45	220
17.—LOCH LINNHE—Left Bank Tributaries. 120 sq. mi.								
D North Ballachulish (Alltshellach) ..	B. Chinnery-Haldane, Esq.	5	2	1	80	2042	80.41	236
D Glenleven (Blackwater Dam, N.) ..	British Aluminium Co. Ltd	8	1	0	1072	2429	95.62	261
D „ „ (Kinlochmore Gardens) ..	Brian Bibby, Esq.	5	1	0	115	2640	103.94	246
„ „ (Chiaron House) No. 3 ..	British Aluminium Co. Ltd	8	1	0	1200	2444	96.21	...
D Fort William (Atholl Bank).....	W. T. Kilgour, Esq.	5	1	0	171	2112	83.13	260
18.—INSULAR, INNER HEBRIDES. 786 sq. mi.								
Hyskier	Board of Northern Lights	...	...	...	...	865	34.07	223
Skye (Oronsay)	„ „ „	...	0	6	58	1428	56.22	207
„ „ (Kyleakin).....	„ „ „	5	4	6	53	1102	43.39	239
D „ „ (Scalpay Island)	Mr. D. Gunn	5	1	0	4	1831	72.08	243
„ „ (Glendrynoch, L. Harport) ..	Mr. A. Macaskill	5	1	0	40	1485	58.47	...
„ „ (Neist Point).....	Board of Northern Lights	...	...	...	...	926	36.47	181
D Skye (Portree)	D. Dewar, Esq.	5	1	0	65	1454	57.25	245
D „ „ (Dunvegan)	Mrs. Mackenzie	5	3	0	47	1673	65.87	245
Rona	Board of Northern Lights	3	1	3	212	888	34.97	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	1916		
		in.	ft.	in.	feet.	mm.	inches.	
INVERNESS—(con.)								
19.—INSULAR, OUTER HEBRIDES. 243 sq. mi.								
Barra (Barrahead).....	Board of Northern Lights	7	3	0	683	794	31·25	231
„ (Castle Bay)	Meteorological Office.....	8	1	0	38	968	38·11	264
South Uist (Ushenish)	Board of Northern Lights	3	1	0	178	1215	47·82	228
North Uist (Monach).....	„ „ „ „	8	5	6	20	1007	39·64	211
„ „ (Bayhead, Lochmaddy)	J. McInnes, Esq. ....	...	...	...	...	919	36·18	...
Harris (Island Glass)....	Board of Northern Lights	7	4	2	130	1046	41·16	236
ROSS & CROMARTY. (Area, 3237 sq. mi.)								
1.—NESS—Moriston. 35 sq. mi.								
2.—BEAULY. 109 sq. mi.								
3.—MORAY FIRTH COAST STREAMS. 64 sq. mi.								
d Fortrose	A. Thom, Esq.	5	1	0	69	880	34·63	221
4.—CROMARTY FIRTH. 714 sq. mi.								
Achnashellach (Glenuaig)	W. M. Christy, Esq.	5	1	0	1150	3566	140·40?	...
d Achnasheen (Ledgowan)	Mr. H. C. R. Macrae	5	1	0	500	2252	88·64	231
Strathpeffer.....	H. W. Kaye, Esq., per MOS	8	1	0	210	869	34·20	210
d Achterneed (Glenskiach)	Mr. T. Dalling	5	1	6	458	1302	51·25	190
Cromarty House.....	Brig.-Gen. W. C. Ross, C.B.	5	1	0	60	820	32·30	215
„	Board of Northern Lights	3	1	0	28	816	32·11	201
d Alness (Fyrish)	Rev. Oswald B. Cowan ...	8	1	0	351	943	37·14	215
Invergordon (The Ord).....	W. G. Paterson, Esq.	5	0	9	50	762	30·00	214
d Alness (Ardross Castle).....	Mr. W. L. Minty	5	1	0	450	1237	48·70	234
5.—DORNOCH FIRTH. 355 sq. mi.								
d Fearn (Lower Pitkerrie)	Miss D. Gordon	5	1	0	95	657	25·88	197
Tarbatness	Board of Northern Lights	8	4	0	175	622	24·47	164
d Ardgay (Gledfield House Gardens)	William Morrison, Esq.	8	1	0	120	946	37·26	158
6.—ENARD BAY. 78 sq. mi.								
d Inverpolly Lodge	J. Scott Rae, Esq.	5	4	0	29	1164	45·82	172
7.—LOCH BROOM & C. 367 sq. mi.								
8.—LOCH EWE, LOCH TORRIDON & C. 423 sq. mi.								
d Loch Torridon (Bendamph)	The Earl of Lovelace	5	0	5	20	2245	88·40	232
d Poolewe (Inverewe Gardens) ...	Mr. R. B. Campbell	5	0	6	20	1604	63·16	195
9.—LOCH CARRON, LOCH ALSH & C. 401 sq. mi.								
Glen Shiel (Shiel House)	Mr. Colin Campbell	5	...	...	...	1883	74·14	...
d Loch Carron (Plockton)	Mrs. Anstruther Mackay	5	1	0	4	1311	51·61	225
d „ „	G. J. Campbell Esq. per SMS	...	...	...	...	1864	73·37	282
Applecross Gardens	Mr. D. McCowan	9	1	0	70	1550	61·02	...
d Glencarron Lodge	Mr. D. D. Munro	5	1	0	504	2169	85·41	260
„ „	„ „ „	5	1	0	504	2569	101·13	...
10.—INSULAR, OUTER HEBRIDES. 691 sq. mi.								
Stornoway	Meteorological Office	8	1	0	52	1244	48·98	286
„ (Butt of Lewis)	Board of Northern Lights	8	4	6	170	1114	39·94	206

DIVISION XIX.—NORTHERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with '01 in. or more
		Diam.	Height Above Ground.		Sea Level	1916		
		in.	ft.	in.	feet.	mm.	inches.	
SUTHERLAND. (Area, 2080 sq. mi.)								
1.—DORNOCH FIRTH. 413 sq. mi.								
2.—FLEET, BRORA & C. 309 sq. mi.								
D Dornoch	G. J. Campbell, Esq.....	5	1	0	35	779	30·67	201
Golspie (Technical School)	E. W. Read, Esq.	6	1	9	105	939	36·96	...
D Dunrobin Castle.....	Mr. D. Melville	5	1	6	14	912	35·91	186
„ „	„ „	5	1	0	14	913	35·94	...
3.—HELMSDALE & C. 226 sq. mi.								
4.—NORTH COAST STREAMS. 736 sq. mi.								
Altnaharra	Rev. Malcolm Gillies.....	5	1	0	300	1408	55·44	249
Strath More (Altnacaillich)	Mr. Duncan Fraser	5	1	0	60	1827	71·92	243
D Tongue Manse	Rev. David Lundie	5	1	0	180	1032	40·62	261
D Bettyhill.....	Mr. Evander Mackay.....	5	1	0	100	948	37·33	249
D Melvich Schoolhouse.....	Mr. A. MacIntosh	5	1	0	...	959	37·77	184
Cape Wrath	Board of Northern Lights	7	4	8	400	1422	56·00	252
5.—LOCH LAXFORD & C. 256 sq. mi.								
D Loch More (Achfary).....	Mr. J. Munro	5	1	0	137	2143	84·38	256
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. J. Murray	5	1	6	100	983	38·69	210
2.—WICK & C. 184 sq. mi.								
Wick	Meteorological Office.....	8	1	9	81	711	27·98	252
Nosshead.....	Board of Northern Lights	7	4	7	175	541	21·29?	...
3.—THURSO & C. 238 sq. mi.								
D Thurso (Buckies)	J. H. M. Davidson, Esq....	5	0	11	240	1038	40·87	258
Castletown (WestGreenlandFm.)	P. Finlayson, Esq.....	5	1	0	150	818	32·20	...
„ (The Clett)	Mrs. Calder, <i>per</i> S.M.S....	5	1	0	73	962	37·88	...
Thurso (Holburn Head)	Board of Northern Lights	3	0	8	75	673	26·51	...
Dunnet Head	„ „ „	3	1	0	246	668	26·32	...
4.—FORSS & C. 104 sq. mi.								
D Reay (The Manse)	Rev. Dugald Carmichael	8	1	0	50	919	36·18	242
5. INSULAR. 1 sq. mi.								
Stroma	Board of Northern Lights	...	...	...	104	568	22·38	181
Pentland Skerries	„ „ „	7	3	9	170	523	20·58	...
ORKNEY. (Area, 389 sq. mi.)								
Hoy (Cantickhead)	Board of Northern Lights	3	1	0	115	747	29·41	...
„ (Graemsay Sound, High)...	„ „ „	5	0	4	115	794	31·28	206
„ „ „ (Low) ...	„ „ „	8	4	3	55	848	33·39	201
Pomona (Deerness)	Magnus Spence, Esq.....	5	4	0	161	976	38·44	227
D „ (Kirkwall)	A. G. Spence, Esq.	5	1	0	72	1042	41·04	230
Hellyar Holm.....	Board of Northern Lights	3	1	0	60	789	31·08	235
Shapinsay (Balfour Castle)	Mr. W. Liddell	5	0	6	50	883	34·78	...
Auskerry.....	Board of Northern Lights	3	2	6	10	775	30·51	...

DIVISION XIX.—NORTHERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above			1916		
			Ground.	Sea Level		mm.	inches.	
		in.	ft.	in.	feet.			
ORKNEY—(con.)								
Sanday (Start Point).....	Board of Northern Lights	3	1	0	80	1012	39·83	214
Westray (Noup Head)	„ „ „	3	1	0	260	835	32·87	206
North Ronaldshay	„ „ „	3	0	4	140	998	39·27	239
Sule Skerry	„ „ „	3	0	6	113	785	30·90	224
SHETLAND. (Area, 558 sq. mi.)								
Fair Isle, South	Board of Northern Lights	...	...	...	...	533	21·00	204
„ „ North .....	„ „ „	...	...	...	262	607	23·89	166
Sumburgh Head .....	„ „ „	...	...	...	...	908	35·73	219
Bressay	„ „ „	3	1	0	105	1153	45·39	...
Lerwick (Fort Charlotte)	Meteorological Office	8	1	0	54	1456	57·31	282
Fetlar (The Manse)	Rev. J. A. Campbell	5	1	0	30	883	34·76	238

IRELAND.

DIVISION XX.—MUNSTER.

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground			1916		
		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.	sq. mi.							
4.—BANTRY BAY.	197 sq. mi.							
D Garinish Island	Mr. V. Gammon.....	5	1	3	60	1771	69·74	229
5.—DUNMANUS BAY.	57 sq. mi.							
6.—BANDON & C.	694 sq. mi.							
D Castletownshend (Seafield)	Major H. Chavasse.....	5	0	8	40	1167	45·96	219
Skibbereen (Hollybrook)	Col. A. H. Morgan, D.S.O.	8	1	2	60	1367	53·82	213
D Caheragh (The Rectory)	Rev. A. W. Whitley.....	5	0	11	98	1509	59·40	230
Clonakilty (Shannon Vale House)	T. J. Bennett, Esq.	5	1	3	135	1087	42·81	...
Ballineen (Kilmeen Rectory)	F. W. Dobbin, Esq., M.D.	5	1	6	350	1438	56·61	...
D Dunmanway (The Rectory)	Rev. A. Wilson	5	1	6	205	1698	66·86	239
D „ (Carbery)	Dr. W. H. Fitzmaurice...	5	1	6	204	1736	68·36	215
D Enniskean (Kilcoleman)	Miss E. Longfield	5	3	0	180	1465	57·67	179
7.—CORK HARBOUR.	726 sq. mi.							
†Roches Point	Meteorological Office.....	8	1	9	32	995	39·19	285
D†Midleton (Ballinacurra)	J. H. Bennett, Esq.	8	1	0	24	942	37·07	198
D†Cork (Corn Market)	D. J. O'Mahony, Esq.....	5	1	0	19	1205	47·45	208
D „ (University College)	Prof. Isaac Swain	8	1	0	65	1177	46·35	211
D „ (Wellington Road)	R. C. Sikes, Esq., C.E....	5	2	6	120	1114	43·87	190
D†Queenstown (Fota Island)	Mr. E. Beckett	5	1	6	35	1095	43·10	213
D†Glanmire (Lota Lodge).....No. 1	A F Sharman Crawford Esq	5	1	0	200	1125	44·28	227
D „ „ „ „.....No. 2	„ „ „ „	5	1	0	100	1074	42·29	223
8.—WOMANAGH & C.	118 sq. mi.							
D Shanagarry (Kinoith)	Miss L. P. Strangman.....	5	1	0	75	906	35·68	177
9.—BLACKWATER.	922 sq. mi.							
D Mallow (Summer Hill)	J. F. Williamson, Esq....	5	1	10	261	1094	43·05	225
D „ (Longueville)	R. E. Longfield, Esq.....	5	1	1	310	1075	42·31	214
Ballyhooley	H. Beddington, Esq.	5	0	9	...	1177	46·34	...
D Kanturk (Castlecarr)	Mrs. Barry .....	...	...	...	...	1022	40·23	237

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain		Days with .01 in. or more	
		Diam.	Height Above Ground Sea Level		1916			
		in.	ft.	in.	feet.	mm.	inches.	
CORK—(con.) 9.—BLACKWATER—(con.) D Mitchelstown Castle	W. D. Webber, Esq.....	8	4	0	340	1104	43·46	231
10.—SUIR. 3 sq. mi. 11.—INSULAR. 26 sq. mi.								
KERRY. (Area, 1.—SHANNON—Left Bank Tributaries. 372 sq. mi. 2.—TRALEE BAY & C. 221 sq. mi. 3.—DINGLE BAY. 789 sq. mi.	(Area, 1851 sq. mi.)							
+ Cahirciveen (Valencia Observatory)	Meteorological Office	11	2	8	30	1429	56·27	261
D† " "	" "	8	1	0	30	1351	53·15	250
+ Gap of Dunloe ("Gearahameen") M	Dr. H. R. Mill	8	3	0	75	2804	110·40	...
D Killarney (Flesk Mills)	D.E.McDonnell,Esq.,C.E....	1624	63·92	220
D† " (District Asylum) ...	E.W.Griffin, Esq., M.D..	5	0	10	178	1777	69·97	275
4.—KENMARE & C. 426 sq. mi. D† Darrynane Abbey ..	D.O'Connell, Esq.....	5	1	1	13	1351	53·20	275
D Kenmare (Derreen)	Mr. W.H.Arrowsmith...	5	1	0	74	1918	75·51	246
,, (Sheen Falls)	Earl of Kerry.....	5	0	5	20	1861	73·26	240
,, (Dunkerron Castle) ...	Miss L.Palmer	5	1	6	70	1482	58·35	256
,, (Dromquinna)	Mr.Robert Reid.....	5	1	0	70	1717	67·59	205
D ,, (Dromore)	Lt.-Col. E.Hood	5	1	2	90	1785	70·27	202
5.—BLACKWATER. 30 sq. mi. 6.—INSULAR. 13 sq. mi. Valencia (Glanleam)	Meteorological Office	8	1	0	12	1476	58·11	...
WATERFORD. (Area, 1.—BLACKWATER. 243 sq. mi. D Lismore Castle	J.E.Penrose, Esq.....	5	5	9	115	1080	42·51	188
2.—COLLIGAN & C. 259 sq. mi. D Tramore (Midvale).....	E.B.Jacob, Esq.	11	6	0	130	716	28·20	162
3.—SUIR. 213 sq. mi. D KnockaderryNo. 1	J.J.Fleming, Esq., C.E.	5	7	7	247	1010	39·75	204
D "No. 2	" "	5	7	7	247	1016	39·99	204
D† Waterford (Brook Lodge).....	C.P.Bolton, Esq., C.E....	5	1	0	104	1013	39·88	201
D† " (Tycor Waterworks).	J.J.Fleming, Esq., C.E.	5	0	7	171	943	37·14	168
D " (Grange House)	G.D.Croker, Esq.....	5	1	0	200	951	37·45	209
D† " (Coollegrean)	E.A.White, Esq.....	5	1	0	50	979	38·54	189
,, (Rocklands).....late J.N.White, Esq.per mo		5	2	0	20	1006	39·61	195
D Portlaw (Mayfield).....J.Anderson, Esq.		5	4	0	70	1030	40·57	228
,, (Curraghmore Gardens) Mr.D.Crombie		5	1	0	95	1074	42·28	171
D Seskin [Carriack-on-Suir]	J.Ernest Grubb, Esq.....	8	1	4	542	1060	41·74	230
TIPPERARY. (Area, 1.—SHANNON—Left Bank Tributaries. 582 sq. mi.	(Area, 1660 sq. mi.)							
D Ballina [Killaloe]	Office of Public Works ...	5	2	0	127	1314	51·74	262
D Templederry Rectory.....	Rev.C.W.McDowell.....	5	1	0	440	1119	44·06	261

DIVISION XX.—MUNSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.		Days with 0·1 in. or more	
		Diam.	Height Above Ground		1916			
				Sea Level				
TIPPERARY—(con.)								
1.—SHANNON—Left Bank Tributaries—(con.)		in.	ft.	in.	feet.	mm.	inches.	
D Nenagh (Traverston)	Miss Norris	5	1	0	330	1307	51·46	276
D „ (Kilboy)	The Lady Dunalley	8	2	0	326	1289	50·74	252
D „ (Castle Lough)	S. G. J. Parker-Hutchinson, Esq.	5	1	3	120	1108	43·64	230
2.—BLACKWATER. 21 sq. mi.								
3.—SUIR. 965 sq. mi.								
D Clonmel (Bruce Villa)	J. H. Grubb, Esq.	8	1	3	110	971	38·23	220
D Cahir (Suirvale)	George Palmer, Esq., C.E.	5	1	0	200	934	36·76	230
D „ (Bengurragh)	R. W. Smith, Esq., junr.	5	1	0	199	1073	42·23	245
D „ Abbey	Mrs. W. Rochfort	5	1	0	160	1010	39·75	235
D Fethard (Coolmore)	E. W. M. Murphy, Esq.	5	1	0	347	1045	41·15	239
D Cashel (Ballinamona)	„ „ „	5	1	0	260	978	38·50	239
D Ardmayle	L. H. Grubb, Esq.	5	1	6	260	834	32·85	182
4.—BARROW—Nore. 92 sq. mi.								
Kilcooley Abbey	T. B. Ponsonby, Esq.	5	1	3	500	987	38·86	180
D Roscrea (Timoney Park)	S. G. J. Parker-Hutchinson, Esq.	5	1	0	475	976	38·41	204
LIMERICK. (Area, 1040 sq. mi.)								
1.—SHANNON—Right Bank Tributaries. 7 sq. mi.								
2.—SHANNON—Left Bank Tributaries. 944 sq. mi.								
Foynes (Coolnanes)	Lord Monteagle, <i>per</i> M.O.	5	1	0	50	1146	45·10	257
Limerick (Mungret College) ..	Rev R W Gallagher, S.J. „ ..	5	1	0	49	923	36·35	259
† „ (O'Connell Street)	F. O'Brien, Esq.	5	1	9	52	980	38·60	...
D „ (Strand)	W. J. C. Horne, Esq.	5	1	0	50	977	38·48	219
D „ (St. Michael's School) ..	Mr. J. G. Boyd	5	1	3	43	935	36·80	...
D Glenstal Castle	Mr. J. McBean	8	1	0	400	1257	49·50	214
D Castleconnell Rectory	Mrs. Davis	5	1	0	88	1106	43·54	199
Abbeyfeale (Springmount)	J. F. O'Kelly, Esq.	8	1	0	357	1233	48·56	235
3.—BLACKWATER. 64 sq. mi.								
4.—SUIR. 25 sq. mi.								
CLARE. (Area, 1270 sq. mi.)								
1.—GALWAY BAY, SOUTH. 100 sq. mi.								
2.—MAL BAY & C. 294 sq. mi.								
Inagh (Mount Callan)	Lt.-Col F Tottenham <i>per</i> M.O.	5	1	0	479	1919	75·52	266
Lahinch (Moy House)	Dr. C. H. Blood	5	1	0	170	1120	44·09	221
D Ennistymon House	H. V. Macnamara, Esq.	5	1	0	37	1379	54·28	252
3.—SHANNON—Right Bank Tributaries. 854 sq. mi.								
D Carrigaholt Castle	W. C. V. Burton, Esq.	5	1	0	16	1220	48·02	267
† Derravoher [Limerick]	Sir A. W. Shaw	5	1	0	40	912	35·91	216
D Killadysert (Paradise Hill)	Mrs. F. B. Henn	5	0	11	125	1217	47·90	252
D Newmarket-on-Fergus (Carrigoran) ..	Mr. A. Barker	5	1	0	86	1126	44·31	235
D Broadford (Hurdlestown)	Colonel W. A. Bentley	5	1	0	157	1228	48·34	264
D Mountshannon (Woodpark)	R. F. Hibbert, Esq.	5	1	0	170	1156	45·51	235
4.—INSULAR. 22 sq. mi.								

DIVISION XXI.—LEINSTER.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.		Days with .01 in. or more	
		Diam.	Height Above		1916			
			Ground	Sea Level				
		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	841	33.11	221
d Foulkesmill (Longraigue).....	Miss J. Deane.....	5	1	1	220	1032	40.63	206
3.—SLANEY & C. 467 sq. mi.								
d Templeudigan (Ballindoney Ho.)	Janssen Budgen, Esq.....	5	1	0	434	1122	44.18	231
d Enniscorthy (Ballyhyland)	Mrs. Moffat.....	5	1	0	365	1226	48.26	261
d „ (Summerville)	W. Waring, Esq.	5	6	10	106	914	35.98	208
„ (Monksgrange).....	Goddard H. Orpen, Esq....	5	1	0	565	1286	50.61	217
„ (Woodbrook)	E. C. Blacker, Esq.	5	1	0	370	1346	53.01	215
4.—OWENAVORRAGH & C. 146 sq. mi.								
d Oulart (Wells)	C. M. Doyne, Esq.....	5	1	0	220	1033	40.68	231
d Gorey (Courtown House)	Lord Courtown	5	3	0	60	979	38.56	202
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	1008	39.68	214
d Piltown (Bessborough)	Mr. T. E. Tomalin.....	8	3	7	60	970	38.17	237
2.—BARROW—Nore. 527 sq. mi.								
Inistioge (Woodstock, Mount Alto)	E. K. B. Tighe, Esq.	8	1	0	860	1058	41.65	...
„ („).....	„ „ „ „	6	1	0	400	860	33.86	...
d Thomastown (Grennan Lodge)...	W. T. Pilsworth, Esq.	5	1	3	98	859	33.83	179
Kilkenny Castle	Mr. E. Sutton, <i>per</i> M.O.	8	1	0	212	896	35.28	259
† „ (Lavistown House) ...	Miss F. E. Butler	5	2	5	170	828	32.59	196
3.—BARROW. 109 sq. mi.								
d Goresbridge (Barragheore House)	H. de M. Fleming, Esq....	5	1	0	130	823	32.40	233
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	1209	47.59	191
3.—OVOCA & C. 241 sq. mi.								
Rathdrum (Avondale)	A. C. Forbes, Esq.....	5	0	6	414	1104	43.47	...
4.—VARTRY & C. 193 sq. mi.								
d Wicklow (Wentworth House)...	E. N. Wynne, Esq., C.E.	5	1	1	23	933	36.74	202
d Rathnew (Clonmannon)	Rev. W. H. A. Truell.....	5	1	0	27	932	36.69	214
d Roundwood (Vartry Lo. Filters)	M.A. Moynihan, Esq., C.E.	5	1	6	643	1356	53.40	239
d „ („ „)	„ „ „ „	5	1	6	720	1350	53.14	247
d „ „ „ „	„ „ „ „	5	1	6	800	1360	53.54	241
d „ (Knockatemple).....	„ „ „ „	5	1	6	760	1309	51.52	248
d Newcastle (Killadreenan)	Dr. F. O'B. Kennedy ...	8	1	2	270	1014	39.91	228
Tithewer	M.A. Moynihan, Esq., C.E.	5	1	6	1000	1317	51.86	...
Annacarter Schoolhouse	„ „ „ „	5	1	6	750	1356	53.40	...
Greystones (Auburn).....	Sir J. W. Moore, M.D....	5	1	4	30	1036	40.79	218
„ (Coolagad)	Dr. J. H. M. Armstrong...	5	0	9	190	1194	47.00	233
d Bray (Fassaroe).....	Mrs. R. Barrington	5	1	0	250	1280	50.41	225
5.—LIFFEY & C. 135 sq. mi.								

DIVISION XXI.—LEINSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground.		Sea Level	1916		
		in.	ft.	in.	feet.	mm.	inches.	
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	947	37.30	204
" (" ") M	" " " "	5	1	0	340	906	35.69	...
3.—SLANEY. 121 sq. mi.								
Hacketstown Rectory	Rev. C. S. S. Ellison	5	1	2	600	1205	47.45	240
QUEEN'S COUNTY. (Area, 664 sq. mi.)								
1.—SHANNON—Left Bank Tributaries. 25 sq. mi.								
2.—BARROW—Nore. 339 sq. mi.								
d Abbey Leix (Blandsfort)	H. Bland, Esq.	5	1	0	530	1062	41.81	241
Mountrath (Donore)	W. G. Despard, Esq.....	5	1	6	227	956	37.63	205
" (Ballyfin)	Mr. R. Bower.....	8	1	0	600	1207	47.51	203
d " (Baunreagh)	A. C. Forbes, Esq.....	5	1	0	810	1576	62.07	254
3.—BARROW. 300 sq. mi.								
Sunnyside [Carlow]	E. Shackleton, Esq.	5	1	0	178	975	38.40	207
Mountmellick	W.A.Robinson Esq.per MO	5	1	0	252	1194	47.00	236
KING'S COUNTY. (Area, 772 sq. mi.)								
1.—SHANNON—Left Bank Tributaries. 560 sq. mi.								
Birr Castle	Earl of Rosse, per M.O...	8	1	0	175	1030	40.56	250
d Victoria Lock [Meelick]	Office of Public Works ...	5	2	0	119	863	33.98	219
d Tullamore (Rathrobin)	Lt.-Col. M. W. Biddulph	5	1	0	400	1064	41.91	250
" (" ") (R) " " " "	" " " " " " " "	8	1	6	400	1038	40.87	...
d " (St. Catherine's Rect.)	Rev. R. S. Craig.....	5	1	0	201	948	37.34	229
" (Union Workhouse)...	Dr. G. A. Moorhead	5	1	0	225	1001	39.42	270
d Ferbane (Turraun Peat Works) A	Leinster Carbonizing Co.	8	1	2	170	983	38.72	234
d " (" " ") B	" " " " " " " "	8	1	2	170	979	38.56	234
d Ballycumber (Moorock Lodge)...	H. P. Mulock, Esq.	5	1	0	228	982	38.67	213
2.—BARROW—Nore. 5 sq. mi.								
3.—BARROW. 156 sq. mi.								
4.—BOYNE. 51 sq. mi.								
KILDARE. (Area, 654 sq. mi.)								
1.—BARROW. 332 sq. mi.								
d Castledermot (Millbrook)	T. Westland Greene, Esq.	8	1	4	225	928	36.53	...
d Monasterevan (Moore Abbey) ...	Mr. C. Pilgrim	5	1	0	236	1034	40.71	229
2.—LIFFEY. 246 sq. mi.								
Sallins (Palmerstown)	The Countess of Mayo.....	5	1	0	321	1035	40.75	265
d Straffan House	Mr. W. Ogilvie	5	1	0	240	990	38.96	206
d Clongowes Wood College	Rev. J. Malony, S.J.....	8	1	0	246	916	36.06	213
3.—BOYNE. 76 sq. mi.								
DUBLIN. (Area, 354 sq. mi.)								
1.—VARTRY & C. 23 sq. mi.								
Carrickmines (Claremont).....	John Read, Esq.	5	0	11	300	937	36.90	...

DIVISION XXI.—LEINSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with '01 in. or more
		Diam.	Height Above		1916			
			Ground.	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
DUBLIN—(con.)								
1.—VARTRY & C—(con.)								
D Ballybrack (Marino)	Rt. Hon. L. A. Waldron..	5	3	6	...	842	33·16	198
2.—LIFFEY & C. 188 sq. mi.								
D Glen-na-Smoel (Rathmines W.W.)	W. R. Stephens, Esq., C.E.	5	1	0	510	1675	65·93	272
D Ballyboden (Rathmines W.W.)..	" " "	5	1	0	344	1196	47·09	226
D Stillorgan (Farmleigh)	T. Jackson, Esq.	5	1	2	220	1118	44·02	246
D " (Tipperstown)	T. D. Lochtie, Esq.	5	1	4	278	935	36·82	202
D† Blackrock (Charleville)	S. Harold Pim, Esq.	5	1	0	260	979	38·53	206
D Dundrum (Belfort House)	Sir J. W. Moore, M.D.	5	...	...	...	1082	42·61	...
D Kingstown (Harbour Yard)	Office of Public Works ...	8	1	0	44	942	37·09	206
D Belgard Castle	Capt. A. F. Maude	5	1	0	400	1027	40·45	221
D Rathmines (Terenure)	F. P. Dixon, Esq., C.E.	5	0	6	125	969	38·16	222
D " (Harold's Cross)	E. H. Cannon, Esq.	5	0	11	155	903	35·54	226
D " (Ormond Road)	W. R. Stephens, Esq., C.E.	5	1	0	99	1005	39·55	224
D " (Dartrey Road)	T. Mason, Esq.	5	6	0	...	1011	39·80	206
D Donnybrook (Belmont Avenue) ..	Douglas Waring, Esq.	5	0	9	100	1020	40·16	216
D " (Anglesea Road)	F. C. D. Joynt, Esq.	5	1	6	30	925	36·42	217
D† Dublin (Fitz William Square) ...	Sir J. W. Moore, M.D.	8	1	6	54	981	38·61	233
D† " (Trinity College)	T. M. Bentley, Esq.	8	1	0	13	930	36·61	...
D† " (Phoenix Park)	Ordnance Survey Office ..	8	1	0	155	1045	41·13	231
D " (Ringsand Pumping Sta.)	Vincent Crosby, Esq.	10	1	1	25	966	38·03	208
D Clontarf (Pumping Station)	G. S. Harty, Esq.	5	4	9	22	864	34·00	212
D Palmerston (Stewart Institution)	Mr. H. Innes	6	1	0	154	1134	44·63	...
D Glasnevin (Roy. Botanic Gardens)	Sir F. W. Moore	8	1	0	55	1038	40·88	256
D Howth Castle	J. G. St. Lawrence, Esq.	5	1	6	25	900	35·43	217
3.—NANNY, DELVIN & C. 142 sq. mi.								
D Malahide (Seamount)	J. G. Jameson, Esq.	5	1	0	150	956	37·65	213
D " (The Green)	T. Bateman, Esq.	5	1	7	25	870	34·26	220
D† Skerries (Milverton Hall)	Capt. E. G. Woods	5	1	6	190	900	35·44	218
D† Balbriggan (Ardgillan) ... No. 1	Capt. E. R. Taylor	5	1	0	211	964	37·97	227
D† " (") ... No. 3	" " "	5	1	0	211	963	37·93	...
4.—INSULAR. 1 sq. mi.								
D Lambay Island	Hon. Cecil Baring	5	1	0	20	867	34·12	189
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	1153	45·38	237
3.—NANNY, DELVIN & C. 150 sq. mi.								
D Mullacroghan [Drogheda]	W. Brydon Hill, Esq.	5	1	6	300	910	35·84	204
4.—BOYNE. 560 sq. mi.								
D Summerhill House	Lord Langford	5	1	0	372	1048	41·28	222
D Athboy (Mitchelston)	W. J. Hopkins, Esq.	5	1	0	260	991	39·02	231
D " (Frankville)	C. P. Coghill, Esq.	8	1	3	227	1068	42·06	225
D Navan (Staffordstown)	R. J. Butler, Esq.	5	1	0	250	991	39·00	235
D Kells (Headfort)	The Marquis of Headfort	8	0	6	227	1008	39·68	226
5.—DUNDALK BAY. 95 sq. mi.								
D Drumconrath (Aclare House) (R)	Mrs. Singleton	10	1	0	119	941	37·04	229

DIVISION XXI.—LEINSTER—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with '01 in. or more
		Diam.	Height Above Ground, Sea Level			1916		
		in.	ft.	in.	feet.	mm.	inches.	
WESTMEATH. (Area, 712 sq. mi.)								
1.—SHANNON—Left Bank Tributaries. 517 sq. mi.								
D Athlone	Office of Works	5	2	0	128	767	30·21	212
D „ (Twyford)	J. P. Hodson, Esq.	5	5	0	188	1218	47·95	252
D Moate (Coolatore)	H. A. S. Upton, Esq.	5	1	6	369	1012	39·86	242
D Mullingar (Belvedere)	Mr. J. Bayliss	5	1	0	367	1170	46·07	237
„ (Ballynegall Gardens)	Mr. W. Wood	5	2	0	500	1103	43·43	241
Rathowen (Cromlyn)	Maj.-Gen. J. P. Battersby	8	1	6	250	998	39·31	241
D Castlepollard (Gillardstown Ho.)	W. Hardy, Esq.	5	1	0	290	1014	39·93	206
D „ (Pakenham Hall)	Mr. W. Allan	5	1	6	300	1067	42·00	232
D Coole (Mayne Rectory)	Rev. R. Butler	5	1	0	300	1054	41·49	230
2.—BOYNE. 195 sq. mi.								
LOUTH. (Area, 316 sq. mi.)								
1.—BOYNE. 32 sq. mi.								
2.—DUNDALK BAY & C. 264 sq. mi.								
Drogheda (Black Hall)	G. H. Pentland, Esq.	5	1	0	160	863	33·97	194
D Dundalk (Town Hall)	M. Sellars, Esq., C.E.	8	55	0	82	811	31·94	223
D „ (Mount Pleasant)	Telford Macneill, Esq.	5	1	0	60	970	38·17	256
D „ (Aughneskea Reservoir)	M. Sellars, Esq., C.E.	5	1	3	207	1098	43·21	205
„ (Ballymacallet)	„ „ „	5	3	6	375	1003	39·48	...
3.—CARLINGFORD LOUGH. 20 sq. mi.								
D Greenore	T. Chambers, Esq., C.E.	5	1	0	20	880	34·64	236
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	1126	44·34	232
D Cloondraha	Office of Public Works	5	2	0	130	869	34·23	243
D Castle Forbes Gardens	The Earl of Granard	8	1	0	168	1145	45·07	255
DIVISION XXII.—CONNAUGHT.								
GALWAY. (Area, 2377 sq. mi.)								
1.—ERIFF & C. 141 sq. mi.								
2.—GALWAY BAY, NORTH. 277 sq. mi.								
3.—CORRIB. 846 sq. mi.								
D Ballynahinch Castle	R. Berridge, Esq.	5	1	9	41	1802	70·96	267
D Headford (Ower House)	Lt.-Col. C. Beddington	5	1	0	50	1396	54·95	190
Tuam (Gardenfield)	R. J. Kirwan, Esq.	5	1	0	155	1212	47·72	...
„ („)	„ „ „	5	6	0	161	1213	47·76	...
4.—GALWAY BAY, SOUTH. 281 sq. mi.								
D Woodlawn	Mr. C. Farmer	5	3	6	300	1086	42·77	246
5.—SHANNON—Right Bank Tributaries. 803 sq. mi.								
D Ahascragh (Clonbrock)	Lord Clonbrock, K.P.	10	5	6	200	1232	48·52	185
6.—INSULAR. 29 sq. mi.								

DIVISION XXII.—CONNAUGHT—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground.		Sea Level	1916		
		in.	ft.	in.	feet.	mm.	inches.	
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	1066	41.97	190
d Albert Lock [Jamestown]	Office of Public Works ...	5	2	0	146	925	36.40	212
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	1588	62.50	271
3.—BLACKSOD BAY & C. 411 sq. mi.								
Blacksod Point	Meteorological Office	8	0	10	332	1177	46.34	288
4.—CLEW BAY. 254 sq. mi.								
d Westport House	Marquis of Sligo	5	1	0	35	1511	59.49	239
d „ (St. Helen's)	Miss Kelly	6	0	11	35	1443	56.80	281
d Newport (Burrishoole House) ...	H. M. Anketell Jones, Esq. ...	5	1	10	30	1597	62.88	274
5.—ERIFF & C. 121 sq. mi.								
d Aasleagh House	Marquis of Sligo	5	1	0	35	2749	108.23	269
d Delphi Lodge	„ „	5	1	0	110	2916	114.82	279
6.—CORRIB. 432 sq. mi.								
d Cong (The Glebe)	Rev. Canon R. Y. Lynn ...	5	1	11	112	1428	56.23	250
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	1789	70.45	241
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	1405	55.31	274
d „ „ „	„ „ „ „	5	1	0	143	1383	54.44	274
d Sligo	R. J. Kirwan, Esq.	5	1	0	90	1329	52.32	252
3.—MOY & C. 166 sq. mi.								
4.—SHANNON—Right Bank Tributaries. 56 sq. mi.								
5.—INSULAR. 1 sq. mi.								
LEITRIM. (Area, 615 sq. mi.)								
1.—ERNE. 152 sq. mi.								
d Carrigallen	Miss B. M. Beattie, per M.O. ...	5	0	8	285	1076	42.35	...
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	821	32.33	225
d Drumshanbo (Lough Allen Sluices)	Office of Works	5	2	0	169	921	36.25	172

DIVISION XXIII.—ULSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam. in.	Height Above Ground.		Sea Level feet.	1916		
			ft.	in.		mm.	inches.	
DOWN—(con.)								
7.—BANN, UPPER. 162 sq. mi.								
D Rathfryland (Muddock Bridge)*	Mr. W. Henning	5	3	0	300	931	36.65	180
Castlewellan (Lough Island Reavy)	Mr. J. Byrne	5	0	8	443	1298	51.11	230
D Achnacloy (Corbet Reservoir)...	Mr. D. Ervin	5	0	8	234	874	34.41	189
Banbridge Observatory	Mr. H. D. Fleming	5	1	6	210	954	37.54	157
D „ (Milltown)	J. E. Kennedy, Esq.	5	1	0	200	887	34.91	217
„ (Millbank)	J. W. Mulligan, Esq., M.D.	5	1	0	257	919	36.18	216
D Moyallon House [Portadown] ...	Mr. J. Lynas	5	0	5	130	844	33.23	208
8.—INSULAR. 2 sq. mi.								
ANTRIM. (Area, 1193 sq. mi.)								
1.—BELFAST LOUGH. 107 sq. mi.								
D Lisburn (Ulster Provincial School)	J. Ridges, Esq.	5	1	6	208	1233	48.54	226
D† Belfast (Queen's University) ...	Mr. G. Robinson	5	1	0	62	955	37.60	221
D „ (Cave Hill Road)	Miss Firth	5	1	0	200	1046	41.20	263
D „ (Sewage Outfall Works) (R)	H. A. Cutler, Esq.	8	2	11	26	953	37.51	211
„ (Oldpark Filters)	F. W. McCullough, Esq. C.E.	5	3	6	203	996	39.20	205
Jordanstown (Lenamore)	R. D. Purcell, Esq.	5	1	9	100	917	36.11	...
Carriekfergus (Dorisland)	F. W. McCullough, Esq. C.E.	5	3	0	250	957	37.68	212
„ (South Woodburn)	„ „ „	5	3	0	640	1036	40.77	217
„ (North „)	„ „ „	5	1	0	735	1155	45.48	220
„ (Copeland)	„ „ „	5	3	0	424	957	37.69	205
„ (Lough Mourne) ...	„ „ „	5	3	0	596	1129	44.44	214
2.—GLENARM & C. 186 sq. mi.								
D Glenarm Castle	The Earl of Antrim	5	1	0	70	1138	44.79	183
3.—BUSH & C. 193 sq. mi.								
4.—BANN, LOWER. 112 sq. mi.								
Ballymoney (Balnamore)	George Smyth, Esq.	5	1	5	50	991	39.01	252
5.—BANN—Lough Neagh, East. 590 sq. mi.								
Stonyford (Belfast W. W.)	F. W. McCullough Esq. C.E.	5	1	6	437	1017	40.03	212
Antrim (Ardnaveigh)	H. B. Murray, Esq.	5	1	6	210	834	32.82	209
D Ballymena (Harryville)	J. R. Williams, Esq.	5	1	5	150	1125	44.28	251
D Broughshane (Quolie)	H. O'Hara, Esq., C.E.	5	1	4	893	1407	55.39	253
6.—INSULAR. 5 sq. mi.								
LONDONDERRY. (Area, 816 sq. mi.)								
1.—LOUGH SWILLY. 6 sq. mi.								
D Londonderry (Dunruadh)	J. H. Welch, Esq.	5	0	6	130	1154	45.43	255
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	1208	47.56	296
Limavady (Drenagh)	M. M. McCausland, Esq.	5	1	6	80	1055	41.52	245
D „ (Culmore Ho., Myroe)	J. B. Martin, Esq.	8	1	0	13	1082	42.58	215
Bellarena	Sir F. G. Heygate, Bart. ...	5	1	3	7	1117	43.98	244

* Formerly called Ballynagappoge.

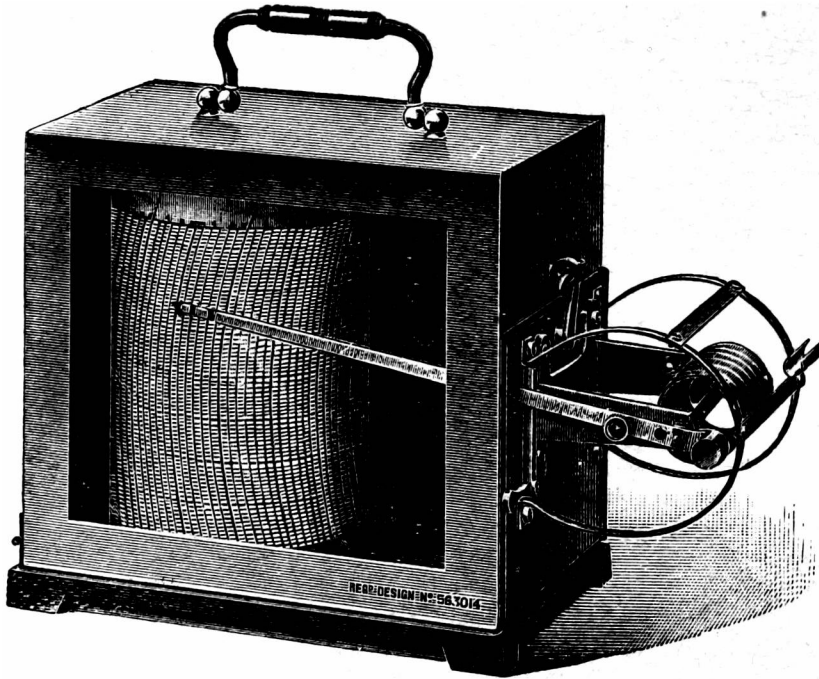
DIVISION XXIII.—ULSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground.			1916		
TYRONE. (Area, 1257 sq. mi.)		in.	ft.	in.	feet.	mm.	inches.	
1.—ERNE. 46 sq. mi.								
2.—BANN—Lough Neagh, West. 442 sq. mi.								
Dungannon (Killyman Rectory)..	Rev. E. F. Campbell	5	0	11	150	925	36·43	...
Cookstown (Lissan House)	J. H. Staples, Esq.....	5	0	10	310	909	35·80	...
3.—FOYLE. 769 sq. mi.								
D Omagh (Edenfel)	Lt.-Col. J. B. Buchanan...	8	1	0	280	1100	43·31	244
D Newtown Stewart (Baron's Court)	Mr. R. Bell.....	5	1	0	250	1182	46·55	229
D Sion Mills (Sion House)	Miss G. I. Herdman	5	3	0	100	1133	44·61	246
DONEGAL. (Area, 1875 sq. mi.)								
1.—DONAGH & C. 146 sq. mi.								
Malin Head	Meteorological Office.....	8	1	0	220	972	38·25	244
2.—LOUGH SWILLY. 278 sq. mi.								
D Letterkenny (District Asylum)..	E. E. Moore, Esq., M.D....	5	1	0	183	1411	55·55	270
3.—SHEEPHAVEN & C. 307 sq. mi.								
D Milford (The Manse)	Rev. W. J. Young.....	5	1	6	150	1311	51·62	271
Dunfanaghy (St. Helen's).....	J. J. MacGrath, Esq., M.D.	8	1	0	55	1222	48·10	295
D „ (Horn Head)	C. F. Stewart, Esq.	5	2	0	163	1280	50·41	305
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	1753	69·03	260
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	1502	59·15	262
9.—INSULAR. 12 sq. mi.								

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