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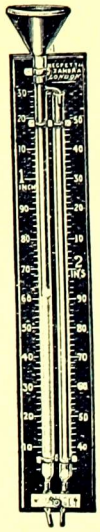

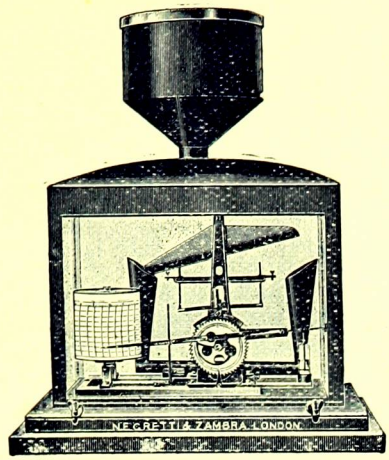

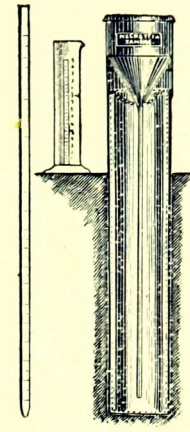

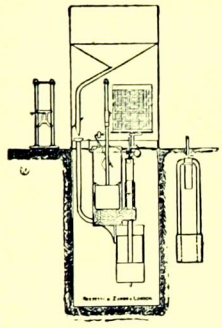

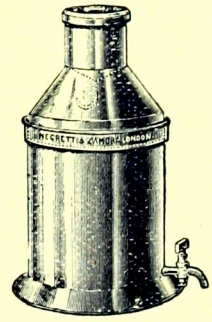

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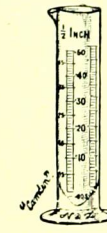

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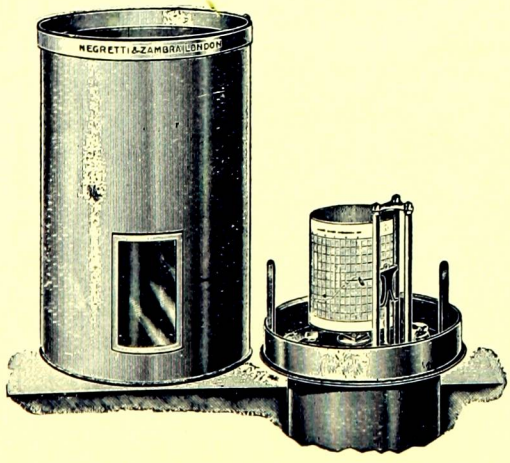

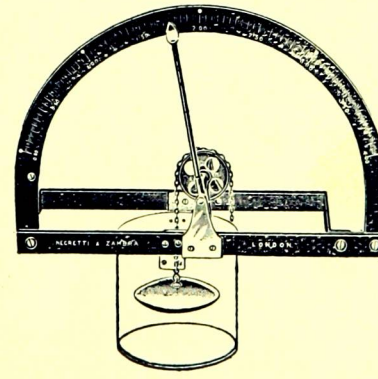

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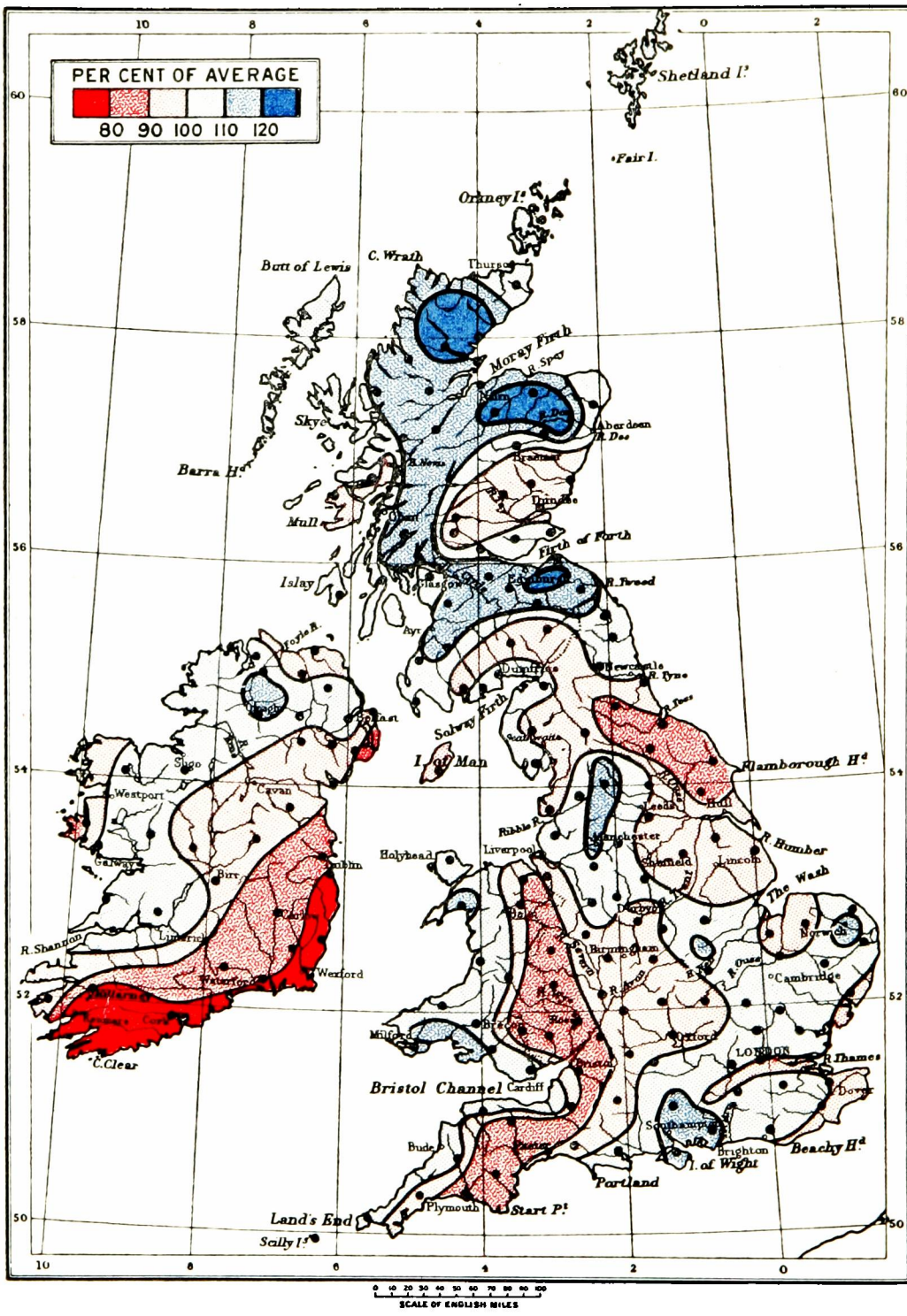

The area coloured red had rainfall below the average, that coloured blue above the average. The lightest tint shows a variation of less than 10 per cent. from the average, the second shade between 10 and 20 per cent., and the solid colour more than 20 per cent.

BRITISH RAINFALL, 1906.

ON THE DISTRIBUTION OF RAIN

IN SPACE AND TIME OVER THE

BRITISH ISLES

DURING THE YEAR

1906

AS RECORDED BY MORE THAN 4,000 OBSERVERS
IN GREAT BRITAIN AND IRELAND
AND DISCUSSED
WITH ARTICLES UPON VARIOUS BRANCHES OF RAINFALL WORK

BY

HUGH ROBERT MILL

THE FORTY-SIXTH ANNUAL VOLUME

WITH MAPS AND ILLUSTRATIONS

LONDON:
EDWARD STANFORD, 12, 13 & 14, LONG ACRE W.C.
1907.

Errata in British Rainfall, 1902—1905.

Under Yorkshire, West Riding (Northern), *delete records of 8 inch gauges at*
Dallow Moor (High Skeldon).
,, ,, (Harper Hill).
Masham Moor (W. Somerside).
,, ,, (High Sour Mire).
,, ,, (Leighton).

Errata in British Rainfall, 1904.

p. [141], line 29, *for* 11 absolute and 16 partial droughts,
read 16 absolute and 24 partial droughts.

Errata in British Rainfall, 1905.

p. 57, line 3, *for* 3° 17′ *read* 3° 35′.
p. [186], line 12, *for* Ryde (Town Hall), *read* Ryde (Police Station).

CONTENTS.

ILLUSTRATIONS.

PREFACE.

THE late date at which this volume goes to press is to be accounted for partly by permanent and partly by temporary causes. The permanent causes include the steady growth of the number of records to be dealt with, and the stationary condition of the available funds, rendering it necessary for the Editor to divert a considerable part of his time from editorial duties to remunerative work.

The temporary causes include the loss by death of two valued assistants (whose places cannot be filled, except by the slow process of training successors), and the consequent increase of pressure on the remaining members of the staff who were already overworked.

The volume is planned exactly as last year; no new feature has been introduced on this occasion, but we trust that no falling off will be found from the high standard of accuracy aimed at from the beginning. Every effort has been made to detect and correct errors in the observations, and to avoid the introduction of errors in the discussions or in the course of printing.

As on former occasions I owe much to the assistance of MRS. H. R. MILL, F.R.Met.Soc. The checking of the returns was largely carried out by the late MR. J. M. PHILLPOTT, F.R.Met.Soc., who was, however, laid aside by illness early in April, and the burden of the work of compilation fell upon Mr. R. LAMPORT, and in an especial degree on MR. CARLE SALTER, F.R.Met.Soc., by whose whole-hearted devotion to the work it has been possible to produce the volume only a fortnight later than usual. Welcome help was also rendered by Mr. L. C. W. Bonacina and Mr. A. E. Payne.

H. R. M.

62, CAMDEN SQUARE,
LONDON, N.W.
24th August, 1907.

A lover of the moorland bare
And honest country winds, you were;
The silver-skimming Rain you took;
And loved the floodings of the brook,
Dew, frost and mountains, fire and seas,
Tumultuary silences . . . . .

And you that loved the empty plain
All redolent of wind and Rain,
Around you still the curlew sings—
The freshness of the weather clings.

R. L. S.

REPORT.

In Memoriam.—It is with much regret that I have to begin this Report with the announcement of the death of my chief assistant, MR. JAMES MONTAGUE PHILLPOTT, F.R.Met.Soc., on July 17th, 1907, after an illness of four months, at the early age of thirty-four years. Mr. Phillpott, whose health was never robust, entered the office of the Royal Meteorological Society in 1889, and had risen to the position of chief assistant there in 1899, when Mr. Symons invited him to come to his assistance in the office of *British Rainfall.* He entered upon his new duties in the November of that year, and rapidly acquired a mastery of the complicated details of the work. His experience at the Royal Meteorological Society had made him familiar with the names of hundreds of Observers, and he seemed to extend that knowledge without difficulty to include thousands. While his special department in the *British Rainfall* office was the charge of the records, and the compilation of tables, he acquired great skill in the construction of rainfall maps. Being a native of Kent his personal knowledge of the topography of that county made it a comparatively easy task for him to plot the average rainfall on the map of Kent prepared for the Geological Survey's Water Supply Memoirs, and he also prepared and plotted the data from which the equally elaborate rainfall map of Sussex was prepared for the same publication; the latter indeed was the last piece of work outside the routine of preparing *British Rainfall* which he completed. Mr. Phillpott was gifted with a peculiar facility in arithmetical work, and as a computer he was remarkably quick and accurate. Mr. Phillpott was at all times kind and considerate to his comrades, and faithful and helpful to his chiefs. His pleasant, courteous manner ensured him a welcome from the Rainfall Observers whom he had occasion to visit, and they, I am sure, unite with his colleagues at Camden Square in mourning his loss. Mr. Phillpott leaves a widow and two little girls, for whose future, I fear, the slender salary he received must have made it difficult for him to provide. By postponing the engagement of a new assistant until the autumn I have been able to make arrangements which will secure Mrs. Phillpott from anxiety for a little time,

and should any Observers care to assist me in this I shall be happy to pass on any expression of their good-will.

In a work like ours I am well aware that no one is indispensible; but at the same time the removal of a skilled and devoted colleague creates a gap which cannot be closed at once, and takes away something of the character of the work which can never be exactly restored.

When I undertook the preparation of annual rainfall maps of the British Isles for the past years during which *British Rainfall* had appeared, I relied in a great degree on the assistance of my old friend MR. PERCY C. WAITE, of Edinburgh, who had previously helped me in work of a similar character, and had also had much experience in assisting Dr. A. J. Herbertson in compiling his memoir on "The Rainfall of the Land," and Dr. Buchan in much of the work for the meteorological volume of Bartholomew's Physical Atlas. He was a very neat and careful worker, and the full importance of these qualities will be realized best if a reader tries to place upon a map of the British Isles, on the scale of 20 miles to an inch, all the annual totals of rainfall contained in one of our volumes. Mr. Waite had plotted the figures on seven maps and had rendered other services to rainfall research which we gladly acknowledge. He called at Camden Square on December 19th, 1906, in excellent health and spirits, and it was a great shock to hear of his death on February 13th, 1907, after a severe attack of influenza.

Position of the Work.—The unexpected loss of two such able helpers has naturally thrown into some confusion the routine work of the office, and has required a great deal of exertion on the part of Mr. Salter and myself, as well as on that of Mr. Lamport and the junior assistant, who was engaged towards the end of last year. We have concentrated our attention on the publications, and it is some satisfaction to know that the Magazine has appeared each month on the appointed date, while this volume is completed only nine days later than last year. The office work has been redistributed. Mr. Salter becomes my chief assistant, and a new assistant who has had several years' experience in the Meteorological Office will join us before the end of the year. That this staff will be capable of dealing with the increasing mass of returns in time to enable *British Rainfall* to appear before the middle of July is a matter of doubt; but it is all that the resources at my disposal make it possible to employ permanently. I am more than ever convinced of the danger

of allowing so important a work to depend on a single life, and in the paragraph on Finance I make a suggestion which may help to insure continuity.

Special Services of Observers.—I wish to thank the Meteorological Office, the Royal Meteorological Society, the Scottish Meteorological Society, and the compilers of County or District Rainfall Tables for the help they have given me as in former years. Amongst the latter must be mentioned Mr. F. Campbell Bayard (Croydon Natural History Society), Rev. H. A. Boys (Mid-Wessex), Mr. John Hopkinson (Hertfordshire), Mr. C. A. Markham (Northamptonshire), Miss Marshall (Lake District), Mr. A. W. Preston (Norfolk), Mr. Stilwell (Dorset), and Mr. T. Wainwright (North Devon). Thanks are due also to the Cornwall County Council, the Great Central Railway Company, the Commissioners of Northern Lighthouses, the Water Authorities of almost all the large towns in the country, and to numerous eminent engineers.

Inspection of Rainfall Stations.—There are probably several hundred owners of motor cars amongst the Observers who send me records for publication, and when I hinted last year that they could render special service to the Organization by helping me to visit and inspect stations, I was half afraid that my promise to accept such help when offered might interfere with the regular progress of the routine work. I received but one invitation, from Mr. W. Pickard, of Mansfield, and thanks to his kindness I was able in a few hours to inspect no less than seven stations, most of them far from railway stations, which would have required at least two days to cover if I had been dependent on the local train services. This experience shows that it is no longer *impossible* to inspect all the rainfall stations in the country in the course of a few years.

Annual Rainfall Maps.—Before the work was interrupted by the death of Mr. Waite, the plotting of the data had been completed for each year from 1905 back to 1893. Since that time the progress has been much slower, as it is a tedious business for a new hand to pick up the localities of the large number of stations dealt with. I have, however, secured the help of one temporary assistant, who is now proceeding with the work, and having heard of another, I hope to be able to report substantial progress next year.

County Maps of Rainfall.—I have prepared and supplied to the Geological Survey for their Water Supply Memoirs rainfall maps

of Bedfordshire and Sussex, in addition to those enumerated last year. The map of Sussex which—like that of Kent—was prepared on the large scale of half-an-inch to the mile, nearly completes the delineation of the distribution of rainfall over that interesting portion of south-eastern England included between the lower Thames and the English Channel, and I hope that it may be possible to publish the whole district on a serviceable scale at some future time. Another very interesting piece of mapping was that of a large portion of North Wales, which was compiled in order to determine the general rainfall of the Dee Valley in connection with a Parliamentary enquiry.

Public Recognition of the Rainfall Organization.—The private and informal nature of the British Rainfall Organization has the drawback of often leaving the public in ignorance, or under misconceptions, as to its work and aims. I am glad to say, however, that the Meteorological Office has, since January, 1907, accepted and published in their official *Monthly Weather Report* a rainfall map of the British Isles, which I prepare from the data supplied monthly by about 700 Observers, who report either to me or to the Meteorological Office. The title of this publication recognizes the work of Rainfall Observers, as it runs :—"Monthly Weather Report of the Meteorological Office (Supplement to the *Weekly Weather Report*), Summary of observations compiled from the returns of official stations and volunteer Observers in the United Kingdom, with a chart contributed by the British Rainfall Organization." For this map the Meteorological Office makes a payment which just covers the cost of my assistants' time in plotting the figures and copying the map for reproduction. The satisfactory point is that the Government Office has recognized the great voluntary organization as a responsible body, with which it is willing to co-operate.

Another piece of work which involves public recognition, though the agreement is necessarily a personal one, is the preparation of a monthly rainfall map of the Thames valley, accompanied by a Report, for the Metropolitan Water Board. The report is published officially, but not the map. I have, however, retained the right of publishing the latter, and if it is considered of sufficient general interest it may be possible to do so in *Symons's Meteorological Magazine*. The fee received from the Water Board for this somewhat heavy piece of work is nearly sufficient to meet the present deficit on the cost of producing the publications of the Organization.

Finance. — References to finance crop out in almost every paragraph of this Report, for without money it would be impossible to do anything. I do not think that any piece of work of equal magnitude is done so cheaply, nor do I believe that money is given to any object more cheerfully than that which the British Rainfall Observers pay for the publication and discussion of the data they send in. I am told that Government ought to pay for the work, and I should be well pleased if they did so, provided, of course, that no red-tape-bound burden of formalities were put in the place of the financial load that would be removed by a Government subsidy. A valued Irish friend of the Organisation has stopped his usual contribution of £1 as a protest against the Government for not assisting; but I cannot myself see how this method will mend matters. I hope that the sentiment will spread but that the example will not be followed by others; if it were it would make things very difficult for me without, I fear, greatly troubling Government. After all the result of the Government finding the funds would only be that everyone would have to pay willingly or reluctantly, and whether they derived pleasure or benefit from the work or not. As it is the funds come from cheerful givers who get an adequate return, and that is by far the better way, if the new Observers who have the means would only act up to the traditions of their predecessors.

If I were to make over to Trustees for the permanent benefit of the British Rainfall Organization the mass of accumulated returns which are at present in my personal possession, would it be too much to ask the well-to-do Observers to make up a fund equal to the amount which I paid for the records in 1903, to be held by the same Trustees as the nucleus of an endowment? My main object in purchasing the records was to be able to secure their availability for scientific workers in all time coming, and I make this suggestion now in the hope that friends of the Organization will help me with their advice. Without some such arrangement it would be impossible to receive any legacies which it might be in the minds of well-wishers to leave for the benefit of the work.

HUGH ROBERT MILL.

62, Camden Square, N.W.,
24th August, 1907.

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Fox, Rev. W. H.	2	0	0
France-Hayhurst, Col. C. H.	1	1	0
Francis, T. Musgrave, Esq.	1	0	0
Fremantle, The Hon. T. F.	1	6	6
Fry, Miss Agnes	1	0	0
Fry, Miss	2	2	0
Furlong, R. O'B., Esq., C.B.	1	0	0
Gamlen, Miss L. J. B.	1	10	0
Garnett, W., Esq.	5	0	0
Garnons-Williams, Lt.-Col. R.D.	1	0	0
Garrett, F., Esq.	1	0	0
Glanville, Miss	1	7	6
Green, Lawrence, Esq.	1	11	0
Greenwood, Capt. C. S.	1	0	0
Greenwood, J. A., Esq.	1	0	0
Greg, Albert, Esq.	1	0	0
Griffith, W. D. W., Esq.	1	0	0
Grubb, D. B., Esq.	1	0	0
Grubb, J., Esq.	1	1	0
Gunner, W. A., Esq.	1	7	0
Hadow, Rev. G. R.	2	2	0
Haes, Henry, Esq.	1	1	0
Hall, P. Craven, Esq.	1	1	0
Hamilton of Dalzell, The Rt. Hon. Lord	1	1	0
Hammond, J., Esq,	1	0	0

	£	s.	d.
Hardy, Laurence, Esq., M.P.	1	0	0
Hare, Theodore J., Esq., The late	1	5	6
Hare, Mrs. Marcus	1	0	0
Harris, C. E., Esq.	1	0	0
Harrison, F. J., Esq.	1	6	0
Hart, H. C., Esq.	1	1	0
Hartley, T. M., Esq.	1	0	0
Haworth, H. Stanley, Esq.	1	5	0
Hayle, T. H., Esq., M.B., B.Sc.	1	1	0
Hayward, Col. Curtis	1	0	0
Heberden, W. B., Esq., C.B.	1	0	0
Hedgeland, Rev. Prebendary	1	1	0
Hellon, R., Esq., Ph.D.	1	1	0
Helps, A. S., Esq.	1	0	0
Henderson, Miss	1	0	0
Herbertson, Dr. A. J. (*2 years*)	2	1	0
Hill, Rev. Edwin	1	1	0
Hill, Messrs. G. H. & Sons	2	12	0
Hill, H. Ashton, Esq., C.E.	1	0	0
Hill, T. A., Esq.	1	4	0
Hillyard, Rev. Arthur	1	0	0
Hodgkin, T., Esq., D.C.L.	1	1	0
Hodgson, T. H., Esq., F.S.A.	1	1	0
Hodson, Messrs. G. & F. W., C.E.	1	11	6
Holmes, W. H., Esq.	1	0	0
Hony, Rev. C. W. (*2 years*)	1	0	0
Hooker, C. P., Esq.	1	1	0
Hooker, Lady	1	0	0
Hooper, Miss	1	0	0
Hopkins, W. R. Innes, Esq.	1	1	0
Hopkinson, J., Esq.	1	0	0
Horner, D. W., Esq.	1	1	0
Horner, Miss E. G.	1	1	0
Horsfall, T. C., Esq.	1	11	0
Hounsom, W. A., Esq.	1	0	0
Howard, W. Dilworth, Esq.	10	15	0
Howells, T. M., Esq.	1	8	6
Hunter, J., Esq., C.E.	1	12	6
Hurnard, S. Fennell, Esq.	4	6	0
Hurt, Albert F., Esq.	2	17	0
Hutchings, Rev. Canon R. S.	1	2	0
Hutton, Miss H. Mary	1	0	0
I'Anson, Dr. Welby	1	1	0
Ingram, Colonel R. B.	1	0	0
Isaacs, Mrs.	1	0	0
Iveagh, Rt. Hon. Viscount, K.P.	1	1	0
Jenkin, A. P., Esq.	1	0	0
Jenkin, S. W., Esq., C.E.	1	0	0
Jenkyns, Lady	1	0	0
Jersey, Rt. Hon. the Earl of	1	0	0
Jevons, G. W., Esq.	1	5	6
Johnston, The late Miss E.	1	0	0
Jones, A. F., Esq.	1	0	0
Jones, C. E., Esq., C.E.	1	1	0
Jones, F. A., Esq., C.E.	1	1	0
Jones, Mrs. Jay	1	1	0
Jones, W. H., Esq.	1	1	0
Jones-Balme, F. M. T., Esq.	1	0	0
Kennedy, J., Esq.	1	0	0
Kenyon-Slaney, Col. the Rt. Hon. W. S., M.P.	1	0	0
Kerr, Capt. James	1	0	0
Kettlewell, W. W., Esq.	1	0	0
King, L. G., Esq.	1	10	0
Kitchin, Mrs. T. M.	1	1	0
Knight, Joseph, Esq.	1	10	0
Knowles, G., Esq.	1	1	0
Lamb, E., Esq., M.P.	1	0	0
Lancashire, J. H., Esq.	1	11	0
Langford, Rt. Hon. Lord	3	0	0
Langston, H., Esq.	1	0	0
Lassell, Miss	1	11	0
Latham, Baldwin, Esq., C.E.	2	2	0
Latham, P. H., Esq.	1	14	6
Latham, T., Esq.	1	0	0
Laurie, Rev. Sir E., Bart.	2	2	0
Lee, E. A., Esq.	1	1	0
Lee, J., Esq., C.E. (*2 years*)	1	0	0
Leigh, W. B., Esq.	1	1	0
Leslie & Reid, Messrs., C.E.	1	1	0
Lethbridge, C., Esq. (*2 years*)	2	2	0
Lewis, Sir W. T. (*2 years*)	10	10	0
Lewys-Lloyd, E., Esq.	1	1	0
Lippincott, R. C. Cann., Esq.	1	5	0
Little, Mrs.	1	0	0
Llewellyn, Sir J. T. D., Bart.	1	11	0
Lloyd, R. Lewis, Esq.	1	1	0
Lomer, Miss	2	10	0
Longfield, R. E., Esq.	1	0	0
Lovelace, The Rt. Hon. the Earl of	1	5	0
Lowther, Rt. Hon. J. W., M.P.	1	0	0
Lucas, W., Esq.	2	2	0
Lyndon, G. F., Esq., J.P.	1	0	0
Macadam, Miss	1	0	0
Mace, J. Ellis, Esq.	2	0	0
McEwan, J., Esq.	1	1	0
Machin, W. G., Esq.	1	1	0
McInroy, Col. Chas., C.B.	1	1	0
Mackay, Rev. G. S. (*2 years*)	2	10	0
MacKinnon, Rev. D.D.	1	1	0
Maclear, The late Admiral J. P.	1	0	0
McNeill, A., Esq.	1	0	0
Mair-Rumley, J. G., Esq.	2	2	0
Major, R. H., Esq.	1	1	0
Mann, E., Esq.	1	0	0
Mansergh & Sons, Messrs., C.E.	2	2	0
Maples, C. E., Esq.	1	6	0
Markham, C. A., Esq.	1	0	0
Marling, Capt. W. B.	1	10	0
Marling, Capt. W. G. Paley	1	1	0
Marshall, Mrs. & Miss	5	15	0
Marson, F. B., Esq.	1	1	0
Marten, E. B., Esq., C.E.	1	18	6
Marten, E. D., Esq., C.E.	1	5	0
Martin & Fenwick, C.E., Messrs.	1	0	0
Martineau, Miss M. C.	1	12	0
Mason, Mrs. T.	1	0	0
Masterman, Mrs.	1	0	0
Mathew, Miss	1	1	0
Maw, C. Trentham, Esq.	1	1	0
Mawley, E., Esq.	1	2	0
Maxwell, Miss	1	0	0
Mellish, H., Esq.	3	0	0
Melville, A. H. Leslie, Esq.	1	1	0
Melville, A. S. Leslie, Esq.	1	0	0
Metcalfe, T. T. S., Esq.	1	10	0

	£	s.	d.
Metcalf, Miss	2	2	0
Mitchell, Alexander, Esq.	2	2	0
Mitchell, F. J., Esq.	1	1	0
Moore, Sir J. W., M.D., D.Sc.	1	0	0
Moro, A. R., Esq.	1	0	0
Moscrop-Young, F. C., Esq.	1	5	0
Mossman, R. C., Esq.	1	1	0
Mostyn, C., Esq.	1	1	0
Mount, Rev. C. B.	1	0	0
Murray, Sir John, K.C.B., F.R.S. (*2 years*)	2	2	0
Myers, W. H., Esq.	1	1	0
Mylne, H. C., Esq.	1	1	0
Nash, W. R., Esq.	1	1	0
Newman, T. P., Esq.	1	1	0
Northwick, The Lady	1	1	0
Oakes, Rev. B. Porteous	1	10	0
Ormerod, W., Esq., J.P.	1	10	0
Otter, R. H., Esq.	1	1	0
Padwick, H., Esq.	2	0	0
Palairet, H. H., Esq.	2	0	0
Palmer, A., Esq., J.P.	1	11	0
Palmer, Greville H., Esq.	1	1	0
Palmer, H., Esq.	1	10	0
Parker, The Hon. Cecil	1	0	0
Parker, Rev. Dr. J. Dunne	1	10	0
Parsons, Miss M.I.	1	0	6
Paterson, Rev. T. M. B.	1	17	6
Pawle, F. C., Esq.	1	1	0
Pearson, E., Esq.	1	0	0
Pearson, F. F., Esq.	1	0	0
Peckover, The Rt. Hon. Lord	5	15	0
Peek, The Hon. Lady	2	2	0
Peel, W., Esq.	1	11	0
Penfold, J. W., Esq.	1	0	0
Pennant, P. P., Esq.	1	0	0
Phillips, E. P., Esq.	1	10	0
Phipps, Col. R. W. (late R.A.)	1	0	0
Pickard, W., Esq.	1	1	0
Pirie-Gordon, E., Esq., J.P.	1	0	0
Plenderleath, Commander, R.N.	1	5	0
Pocklington, Miss E. H.	1	11	0
Powell, C. M., Esq.	1	0	0
Preston, A. W., Esq.	1	0	0
Price, C., Esq.	1	8	0
Pullar, Laurence, Esq.	2	2	0
Radnor, Rt. Hon. the Earl of	1	6	0
Ramsden, Miss	1	1	0
Rankin, Sir J., Bart.	1	1	0
Ransom, F., Esq.	1	5	0
Rashleigh, Rev. A. S.	1	0	0
Rashleigh, Miss Constance	1	0	0
Rashleigh, Rev. Stanhope	1	0	0
Rathbone, Mrs. S. G.	1	1	0
Ravenshaw, P. E., Esq.	2	0	0
Rayner, F., Esq., C.E.	1	1	0
Remington, J. Stewart, Esq.	1	17	0
Rendlesham, The Rt. Hon. Lord	3	0	0
Reynolds, L. W., Esq., The late	1	1	0
Richardson, Ralph, Esq.	1	1	0
Ridout, Rev. G.	1	1	0
Robson, J. W., Esq.	1	5	0
Roe, Surgeon-General S. B., C.B.	1	1	0
Rogers, H., Esq.	1	7	0
Rogers, H. K. G., Esq.	1	1	0
Rogers, Lieut.-Col. J. M.	2	0	0
Rolle, The Hon. Mark, The late	1	1	0
Roper, W. O., Esq.	1	1	0
Ross, Rev. J. C.	1	6	6
St. Maur, Lord Percy, The late	1	0	0
Sainty, C., Esq.	1	1	0
Sanderson, Mrs.	1	5	0
Sanger, C., Esq.	1	1	0
Schuster, Rev. W. Percy	1	6	0
Scott, Sir Benjamin	1	1	0
Scott, Lady Mary	1	0	0
Searle, G. von U., Esq.	2	0	0
Senior, F. G., Esq.	1	0	0
Sharman, N. P., Esq.	1	0	0
Shepherd, J. W., Esq.	1	1	0
Simpson, Mrs. G.	1	0	0
Sing, Joshua, Esq.	1	0	0
Smart, F. G., Esq., J.P.	2	6	0
Smith, Rupert T., Esq., C.E.	1	1	0
Smith, W. A., Esq.	1	1	0
Smith, The Hon. W. F. D., M.P.	3	0	0
Smyth, John, Esq., C.E.	1	10	6
Smyth, Lady	1	10	0
Snowden, Rev. H. C. V.	1	1	0
Soames, Miss Mary	1	1	0
Soames, Capt. R.	1	15	0
Somerset, His Grace the Duke of	1	1	0
Southall, H., Esq.	1	1	0
Southall, J. T., Esq., J.P. (*2 years*)	2	0	0
Southwell, H. J., Esq.	1	1	0
Sparkes, John, Esq.	1	1	0
Sparks, Miss	1	1	0
Spilsbury, Rev. B. W.	1	0	0
Spooner, Albert, Esq.	1	1	0
Squire, W. W., Esq., C.E.	1	1	0
Staines, A. J., Esq.	1	6	0
Stanton, Miss R. E.	1	0	0
Stevenson & Burstal, C.E., Messrs.	1	0	0
Steward, J. J., Esq.	1	10	0
Stewart, Mrs. Herbert	1	0	0
Stewart, Sir Mark McT., Bt., M.P.	1	1	0
Stewart, R., Esq.	1	1	0
Stewart, Rev. W. E.	1	5	0
Stilwell, Henry, Esq., J.P.	1	5	0
Stirling, C., Esq.	1	0	0
Storey, Frank, Esq.	1	1	0
Stow, F. S. Philipson, Esq.	1	11	6
Strachan, G. R., Esq. C.E.	2	2	0
Strachey, J. St. Loe, Esq.	1	1	0
Straker, J. H., Esq.	1	0	0
Strange, J. T., Esq.	1	0	0
Strutt, G. Herbert, Esq.	1	1	0
Sturge, R. F., Esq.	1	1	0
Sturt, Miss K. M.	1	18	6
Sutton, Martin J., Esq.	1	1	0
Tabor, H. S., Esq.	1	0	0
Tailyour, W. Stewart, Esq.	1	1	0
Tate, Alfred, Esq.	1	11	0
Tatham, Leonard J., Esq.	1	6	6
Tatton, T. Egerton, Esq.	1	15	0
Taylor, Capt. E. R.	5	0	0

	£	s.	d.
Taylor, F., Esq.	1	0	0
Taylor, Sons & Santo Crimp, Mesrs.	1	1	0
Taylor, W., Esq.	1	1	0
Thomas, R.E.S., Esq.	2	0	0
Thompson, G. Rodie, Esq.	1	0	0
Thompson, H. Yates, Esq.	1	5	0
Thompson, Mrs. Heywood	1	1	0
Thomson, J., Esq.	1	0	0
Thresh, J. C., Esq., M.D., D.Sc.	1	0	0
Todd, Rev. J. Utten	1	0	0
Travers, Major J. A.	1	17	6
Trench, Mrs. J. A.	1	0	6
Trevelyan, Lady	1	0	0
Trinder, H. W., Esq., J.P.	1	11	0
Tritton, J. H., Esq.	2	12	0
Tuckett, F. F., Esq.	1	5	0
Turner, F., Esq.	1	1	0
Turner, H., Esq.	1	6	0
Tyacke, G. Ashley, Esq.	1	2	0
Vaughan, Cedric, Esq., C.E.	1	17	0
Vaughan, Rev. Prebendary H.	1	2	0
Venables, Mrs. Lister	1	5	0
Waddingham, T. J., Esq.	2	2	0
Waldegrave, Rt. Hon. Earl	1	17	6
Walker, A. J., Esq.	3	3	0
Walker, A. O., Esq.	1	1	0
Walker, John H., Esq.	1	0	0
Walters, F. R., Esq., M.D.	1	1	0
Ward, Col. M. F.	1	0	0
Waterhouse, Edwin, Esq.	1	1	0
Webber, W. D., Esq.	1	1	0
Welch, A. B. S., Esq.	1	1	0
Welch, J., Esq.	1	1	6
Welch, W. G., Esq.	1	0	0
Weldon, Edward, Esq.	1	1	0
Weller, George, Esq.	1	0	0
Weston, George, Esq.	1	1	0
Weston, James, Esq.	1	1	0
Whish, G. H. M., Esq.	1	1	0
Whitaker, B. I., Esq.	1	0	0
Whitchurch, J. Arnold, Esq.	1	1	0
White, J. Martin, Esq.	1	1	0
Whittington, C. J., Esq.	1	0	0
Wilde, E. H. N., Esq.	1	0	0
Wilkin, Mrs. A.	1	0	0
Wilkin, F., Esq.	2	0	0
Wilkinson, W. King, Esq.	1	1	0
Williams, C. Theodore, Esq., M.D.	1	5	0
Williams, Morgan B., Esq.	1	0	0
Wilmot-Sitwell, E. S., Esq.	1	1	0
Wilson, Albert, Esq.	1	15	0
Wilson, A. M., Esq.	1	1	0
Wood, J. G., Esq.	2	0	0
Wood, J. Travers, Esq.	1	1	0
Woodhouse, Miss	1	0	0
Woodward, Miss	1	5	0
Worthington, W. B., Esq., C.E.	1	0	0
Wynford, The Dowager Lady	1	1	0
Yool, G. A., Esq.	1	7	0
Younger, H. J., Esq.	1	10	0

[Subsequent receipts will be acknowledged monthly in *Symons's Meteorological Magazine*. Cheques and Postal Orders should be crossed "National Bank, a/c British Rainfall," and addressed to Dr. H. R. Mill, 62, Camden Square, London, N.W.]

THE CHRISTMAS SNOWSTORM OF 1906.

By Christmas Eve 3,521 circulars containing forms for recording the rainfall of 1907 had been prepared for posting, tied up in bundles of 60 each, and left ready at 62, Camden Square to be sent to the Post Office on the appointed day. The assistants had left for their short and well-earned holiday, and there seemed to be a week of comparative leisure before us. On the morning of Boxing Day the whole neighbourhood of London was found covered with 4 or 5 inches of snow, which had come down in the night, and at Mill Hill the circumstances were so interesting that we resolved to make a special and detailed investigation into the storm, if so soft and silent an envelopment could be called by such a name. The night of the 25th had been fine and star-lit, with white clouds appearing about 10 p.m. in the south-west, and at 11 p.m. no snow or rain was falling. Next morning, at 7 o'clock, the sky was blue and clear, the wind blowing cold as a light breeze from the north-east, and grass and trees were covered alike with a snowy fleece. There had evidently been a fierce wind in the night for the snow was drifted deeply against walls and hedges, and plastered thickly on the south-western sides of trees and walls; the north-eastern sides were entirely clear showing that there had been a shift of the wind to a diametrically opposite quarter since the drifting ceased.

Next morning the newspaper reports showed that the snowfall had been very widespread, and we sent the accompanying form to the printer, in order to give all Rainfall Observers an opportunity of recording their experiences. By the evening the first batch of copies was received. It took the evening of the 27th and nearly all day on the 28th to get the 3,000 ungummed envelopes loosened from their bundles, opened, the slips inserted and the envelope flaps tucked in and made up again in bundles of 60. The 521 packets in closed envelopes for those Observers who report monthly could not be dealt with in this way, so snow circulars for that number had to be separately addressed; but at length they were completed and dispatched just before the closing time of the Post Office on the 28th.

Snowstorm of December 26th, 1906.

DR. H. R. MILL would be much obliged if any particulars of the Snowstorm, which commenced about midnight on Christmas Day, could be entered on this form and sent to him with the rainfall returns for 1906. Most interest attaches to the total depth of undrifted snow; but the fullest information is requested. If snow fell on two or more consecutive days please give particulars for each day. If there was no snow about 26th December, please return the form marked "No Snow."

Place of Observation.
Date and hour when Snow commenced.
Date and hour when Snowfall ceased.
Average Depth of Undrifted Snow.
Direction of Wind before Snow fell.
Direction of Wind after Snow fell.
Reading of Rain Gauge (Rain or melted Snow).

Temperature { *9 a.m.*, *9 p.m.*, *Max.*, *Min.* }

General Description and Remarks.
(*Please write these on other side.*)

Signed.....

The number of slips which returned to us with information was 1862, and we must regretfully acknowledge that we have not been able to do more than touch upon some salient lines of the information they contained. All are preserved, and we hope they can be further utilized. The storm was not the isolated phenomenon which the first newspaper reports had led us to expect. It was followed for several days by snowy conditions, and it was soon apparent that during the last week of the year there were two separate snowstorms, one on the 25th and 26th, which affected the west of Scotland and the whole of England except the north-east, gently and with little inconvenience; and another on the 27th and

28th, which was very severe indeed in the east of Scotland, in Ireland and the south-west of England. In parts of Yorkshire and the border counties both storms appeared, and in some of these places it is difficult to distinguish between them. The second storm was accompanied by strong electrical disturbances and a severe gale, so that the light powdery snow was driven into enormous drifts, causing much distress to farm and village dwellers in Aberdeenshire and adjacent counties. Aberdeen itself was cut off for several days from telegraphic and railway communication with the rest of the country. A terrible railway accident occurred in the thick of the storm at Elliott Junction, near Arbroath, causing loss of life, and the storm was in every way one of the severest on record.

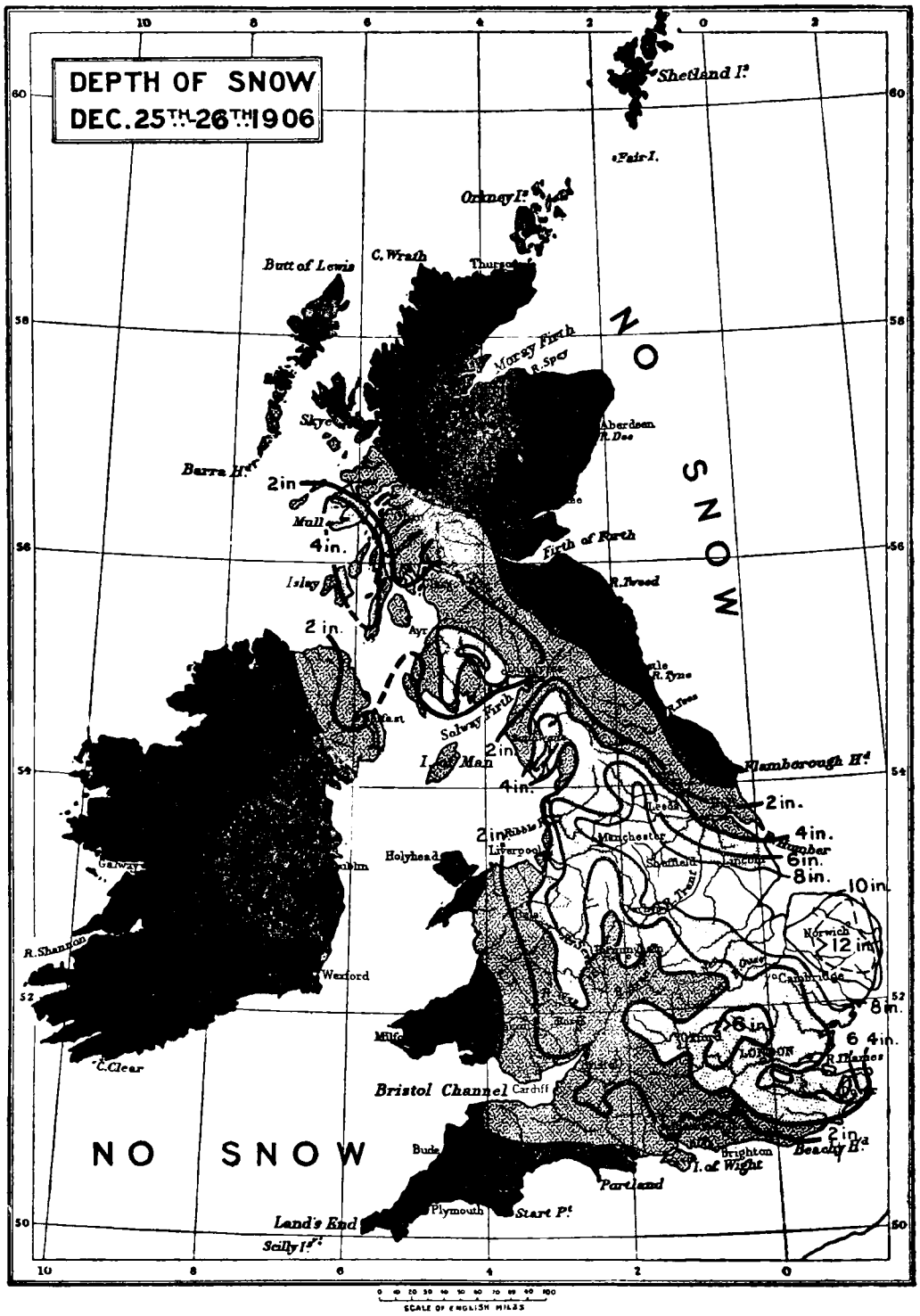
After a cursory examination of the returns, and the elimination of those the statements on which were too vague to be useful, we decided to deal only with the first storm, and to limit our work to a consideration of the depth of snow over the country and the hour at which the snowfall commenced. This storm was by no means the severest, and perhaps not the most wide-spread, in recent years; but the great quantity of data obtained from skilled Observers makes it possible to deal with it more exactly than has ever been practicable before.

We have made many maps of heavy falls of rain, but it is a very difficult thing to map a light fall, on account of the uncertainty as to the date of entry by Observers who do not consistently follow the rule. In the case of a heavy fall, the individuality of the day is so well-marked that those who enter to "wrong day" are immediately detected. A fall of snow is much more conspicuous than a shower of rain, and estimates of the depth of snow, though individually less accurate than measurements of the fall of rain, may collectively give a good general account of what is equivalent to a light shower; hence one part of the value of studying snowfall.

Care was taken first to eliminate those returns which lumped together the snowfall of several days, and all the figures which belonged to the period 25th-26th were plotted on a map on the scale of about 20 miles to an inch. The error in measuring snow may lead to over or under estimates, for drifting increases the depth in some places and diminishes it in others; hence it is to be expected that large figures will sometimes be found amongst a group of small values, and that a few small figures will be found in the midst of an overwhelming crowd of larger. But when, as in this case, the

figures are very numerous it is easy to see and to ignore the minority of dissentient values, be they too high or too low, and we found it possible by following the majority to prepare a very serviceable map of the depth of snow on the day in question. This map we reproduce on a reduced scale. It shows in solid black those parts of the country where no snow fell; but there was precipitation on that day in the form of rain over the western areas at least, where the temperature did not admit of the formation of snow. The area of the snowfall is seen to be a zone (150 miles broad in the north and widening to 200 miles in the south) stretching from north-west to south-east from the north of Ireland and west of Scotland to the English Channel and North Sea. The zone is parallel to the track of a secondary depression which crossed the British Isles on the 25th and 26th from the North Channel between Ireland and Scotland to the mouth of the Thames, the centre being at the former point at 6 p.m. of the 25th, and at the latter at 8 a.m. of the 26th. The snowfall was heaviest on the left of the track, and although the distribution shows some irregularities which may be due in part to the uncertainty of the estimates of depth, it is plain that the heaviest fall occurred in a central belt (left white on the map) running from Manchester and Leeds to Lincoln and Ipswich. Here for a length of 200 miles and a mean breadth of 40 miles the depth of the snow everywhere exceeded 8 inches, while over nearly the whole of Norfolk and Suffolk the depth exceeded 10 inches, and in the centre of these counties, over nearly 1000 square miles, the snow lay to the depth of a foot. It appears to be possible that the snow of the storm which brought such heavy falls to the east coast on the 27th-28th may have begun in Norfolk before the snow of the 25th-26th stopped, and that this may account for the great depth recorded there. From the axis of maximum snowfall the depth fell off very quickly to the north-east, and extremely gradually to the south-west. It is interesting to note that the area of snowfall under 2 inches is greatest in the valleys of the lower Severn and Warwickshire Avon.

In order to assist us in correcting the ordinary rainfall returns for snow which was improperly excluded, we prepared a rough map of the total depth of snow for the last week of the year. This map showed three distinct centres of maximum snowfall in the north-east of Scotland, in East Anglia and in the north of Ireland. It showed an absence of snow round the Bristol Channel, and a curiously


DEPTH OF SNOW
DEC. 25TH-26TH 1906
Shetland Is.
Fair I.
Orkney Is.
Butt of Lewis
C. Wrath
Thurso
Moray Firth
R. Spey
Aberdeen
R. Dee
Skye
Barra Hd.
2in
Mull
4in.
Islay
2 in.
Firth of Forth
R. Tweed
R. Tyne
R. Tees
Ayr
Solway Firth
I. of Man
2in
4in.
Flamborough Hd.
2in.
Leeds
4in.
Doncaster
6in.
8in.
10in.
Manchester
Sheffield
Liverpool
Holyhead
Galway
R. Shannon
Wexford
Norwich
>12 in.
Cambridge
8in.
6 4in.
LONDON
R. Thames
C. Clear
Bristol Channel
Cardiff
NO SNOW
Brighton
I. of Wight
Beachy Hd.
Portland
Plymouth
Start Pt.
Land's End
Scilly Is.
SCALE OF ENGLISH MILES

isolated area in the centre of the Lowland Plain of Scotland between the firths of Forth and Clyde, where there was extremely little. That area, in fact, escaped the two great storms, while all round it the country had been visited by one or both.

Maps of exceptional snowfalls have been made before, and a good example will be found in *Symons's Meteorological Magazine* for February, 1881 (Vol. **16**, frontispiece); but, so far as we are aware, the rate of movement across the country of the beginning of a snow-storm has not been previously mapped with anything like the detail which has been found possible in the present case. The movement of a line-squall across the country has been traced on several occasions from a comparatively small number of observations, the correctness of which was guaranteed in most cases by barograph traces; but here we have had a very large number of observations widely scattered over the whole country. The time of the commencement of the storm was noticed the more carefully because it happened to be on Christmas day or Christmas night, but the exact moment at which the snow commenced could not be given in most cases. A number of Observers in those parts of the country where the storm began at night were able to say positively that no snow fell before a certain hour, and a large number had taken the trouble to enquire from policemen, night-watchmen and others whose duties afforded opportunities of noting the commencement of the snow. When all the figures we received had been charted the hour of commencement was found to be very distinctly later as one proceeded from west to east, and, although the figures were often contradictory, it was possible to draw lines that represent what may be called the prevailing hour of commencement. These lines are drawn in a somewhat generalized form, and it is possible that there should be more anomalous hours of commencement than those which are shown in the two small areas, one in Monmouthshire, the other west of Cambridge; but these were the only places where the weight of evidence seemed to us to demand exceptional treatment.

Speaking generally, the isochronic lines ran from north to south, with a slight tendency to diverge southwards; but it may be that they would be better viewed as concentric curves, perhaps portions of circles, the common centre of which lay somewhere near the north-west of Ireland. The facts, as shown by the isochronic map, are that the snow storm began in the north of Ireland shortly before noon of Christmas day, or about 6 hours before the centre of the depression


HOUR WHEN SNOW BEGAN, DEC. 25-26, 1906.
Shetland I.
Fair I.
Orkney I.
Butt of Lewis
C. Wrath
Thurso
Moray Firth
R. Spey
Aberdeen
R. Dee
Skye
Barra H.
Mull
Oban
Firth of Forth
R. Tweed
Islay
Glasgow
Ayr
Dumfries
R. Tyne
Solway Firth
I. of Man
Holyhead
Liverpool
Ribble R.
Manchester
Leeds
Hull
R. Humber
Sheffield
Lincoln
The Wash
Derby
R. Trent
Norwich
Cambridge
Oxford
LONDON
R. Thames
Dover
Bristol
Bristol Channel
Cardiff
Southampton
Brighton
I. of Wight
Beachy H.
Bude
Plymouth
Start P.
Land's End
Scilly Is.
Galway
R. Shannon
Wexford
C. Clear
NO SNOW
NOON
MIDNIGHT
MIDNT.
SCALE OF ENGLISH MILES

arrived there, and that the storm began later and later towards the east and south, until it was after 2 a.m. on the 26th before it commenced at the mouth of the Thames, *i.e.*, 6 hours before the centre of the depression arrived there.

It thus appears probable that snow began in the front of the approaching cyclone about 6 hours in advance of the passing of the trough, and it appears likely that the snowfall lasted until immediately after the trough passed; but the hours given for the cessation of the snow are less precise than those for its commencement. At Camden Square the barograph showed that the trough passed about 6 a.m., after which the barometer began to rise, and the snow ceased about the same time.

The map shows that at noon on Christmas Day snow was beginning on the north-east of Ireland; at 2 p.m. it was snowing along a line from Islay and Kintyre to Larne; at 4 p.m. the snow reached Mull, Galloway, and almost the Isle of Man; at 6 p.m. it almost reached Skye, Glasgow, Dumfries and the coast of Lancashire; at 8 p.m. it was snowing from Skye to Manchester and thence to Cardiff and Bridgwater; at 10 p.m. the line of the commencing storm ran from the Tyne through Leeds, Sheffield, Derby, and Birmingham, to near Bournemouth; by midnight it stretched from Goole to Brighton, and, sweeping over London, by 2 a.m. on the 26th, it ran from Hull through Lincoln and Cambridge to Dover. An hour later the storm had passed out into the North Sea, and the whole country was painted white from the Isle of Skye to the Isle of Thanet.

The rate of advance of the front of the storm measured by the commencement of precipitation was least rapid in the north, where it was 12½ miles an hour, and most rapid in the south, where it was about 19 miles an hour, but the rate varied a little from point to point. The interesting fact is, however, that a motor car could have kept out of the storm by travelling, without exceeding the legal speed limit, in the direction of its progress. At 8 o'clock on Christmas night snow was beginning to fall simultaneously along a line of 500 miles, this being the longest snow-yielding portion of the storm front at any time.

THE EFFECTS OF EXPOSURE TO WIND UPON THE AMOUNT OF RAIN CAUGHT BY RAIN-GAUGES, AND THE METHODS OF PROTECTING RAIN-GAUGES FROM THEM.

By L. C. W. Bonacina.

In the present article it is proposed, first of all, to trace briefly the historical development of our knowledge respecting the effects of rain gauge exposure to wind, then to discuss a few points concerning the probable *modus operandi* of the causes of these effects; and, finally, to indicate the methods that have been suggested or adopted for removing such effects as a source of error in rainfall records.

I.—HISTORICAL.

When systematic rainfall observations were established in the various countries, by means of properly constructed rain gauges, it was soon discovered that gauges which were unduly exposed to the force of the wind invariably recorded less rainfall than neighbouring gauges which were in more sheltered positions.

The most important knowledge respecting rain gauge exposure, was undoubtedly acquired through a careful study of the diminution of recorded rainfall with the height of the rain gauge above the ground; and accordingly it is intended, at the outset, to review the history of the latter subject in so far as it bears upon the former.

As early as 1811, Luke Howard,[1] with reference to experiments carried out by himself, suggested that the true cause of the lesser amounts of rain caught by gauges placed on buildings as compared with those placed on the ground, must be sought in the circumstance that the former gauges suffer greater exposure to wind than the latter, and that buildings occasion eddy disturbances in the air moving near them, the deflected currents preventing the proper amount of rain entering gauges upon them. The suggestion of wind eddying about the mouths of rain gauges, and thereby causing loss

[1] *Gilbert's Annals of Physics*, Vol. 41.

of rain, was likewise made by Mr. H. Meikle[2] about 1820. In 1837, Prof. A. D. Bache, of Philadelphia, in a report to the British Association, gave the results of his experiments with rain gauges placed in various positions upon the roof a tower, and the results are confirmed by those obtained through the precisely similar experiments in 1877 of Mr. G. Dines,[3] at Horsham, in Surrey. The important facts revealed by these observations were that gauges placed on the leeward sides of the towers received more rain than those placed under otherwise similar conditions on the windward sides; and that in calm weather the rainfall recorded on any part of the towers was equal to that recorded on the ground.

The effect of wind upon the catch of rain by gauges placed on the slopes of hills, and close to the edges of cliffs, was investigated by the Rev. F. W. Stow,[4] in 1870, at Hawsker, near Whitby, in Yorkshire. A gauge placed by him close to the edge of a steep high cliff overlooking the sea, caught 91 per cent. of the rain caught by a gauge in an adjacent valley when the wind blew from the land, and only 62 per cent. when it blew from the sea, and thus became forced upward by its impact against the great obstruction offered by the abrupt face of the cliff. Concerning the upward deflection of a strong rain-laden wind upon striking a steep high cliff, Hallier[5] refers to a saw obtaining in Helgoland that one may walk along the brink of such a cliff, during heavy storms of wind and rain, without getting wet; moreover, he relates that on such occasions he has seen the rain carried over in curved paths towards the interior of the island, and that small stones which he hurled over one such cliff were thrown back by the wind, and likewise compelled to follow curved paths. It should not be omitted to mention in this part of the article, that an investigation respecting the influence of wind upon rain gauges exposed at different heights above a high, sloping bank, crossing a valley at right angles and retaining a reservoir, formed the subject of the second and third series of Rotherham[6] experimental observations.

In 1861, a theoretical paper bearing upon the effect of obstacles

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[2] *Annals of Philosophy*, **14**, p. 212; **15**, p. 269; **16**, p. 421, for correspondence alluding to the subject.

[3] *British Rainfall*, 1877, p. 15; *Met. Mag.*, 1878, vol. **13**, p. 99.

[4] *British Rainfall*, 1870, p. 9.

[5] *Poggendorff's Annalen.*, **112** (1861), p. 343.

[6] *British Rainfall*, 1875 to 1890.

to the passage of the wind, and upon the diminution in the quantities of rain received by elevated gauges, was published by Mr. W. Stanley Jevons,[7] in which it is shown that in passing over obstacles the wind must suffer increase of velocity; and, moreover, that rain-drops falling through such wind must be brought farther apart in horizontal distance than they would be in a wind whose progress were to remain unimpeded.

From 1865 to 1872, the first of a most important series of rain gauge experiments was conducted by Mr. R. Chrimes,[8] on the flat roof of a large reservoir at Rotherham, in Yorkshire. In these experiments were observed the readings of ordinary horizontal-mouth gauges, elevated at different altitudes upon poles, of a five-funnelled gauge, four of whose mouths were vertical, each facing one of the cardinal points, and one horizontal: of four gauges, whose funnels rotated with the wind, their mouths being inclined to the horizon at $23\frac{1}{8}°$, $45°$, $67\frac{1}{8}°$, $90°$ respectively, together with those of a tipping-funnelled gauge, which, mounted on a vane and fitted with elaborate mechanism, permitted its funnel to so adjust itself as always to present an aperture perpendicular to the wind. The average velocity and direction of the wind were taken by daily readings of a Robinson anemometer. By means of the five-funnelled apparatus, the mean angle[9] at which the rain fell, both in altitude and azimuth, could be approximately determined. The results of this series of experimental observations. taken in conjunction with those of another conducted by Mr. Stow, at Hawsker, with horizontal and vertical-mouth gauges at different heights, left no further doubt in this country that the decrease in the catch of elevated gauges was entirely due to increased exposure to the wind. The facts which these observations taught us were: (1) that there is a decrease of recorded rainfall with height, consequent upon increased exposure of the rain gauge to the effects of wind, both upon the gauge itself and

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[7] *Philosophical Magazine* (1861), **22**, p. 421; also British Association *Report*, 1861, Part 2, p. 62.

[8] *British Rainfall*, 1866 to 1873; (for illustrations of five-funnelled, tipping-funnelled and inclined-funnelled gauges, see: *British Rainfall*, 1869, pp. 12, 13 and 14; also 1900, pp. 30 & 31.)

[9] The mean angle with the horizon at which rain falls, may be roughly computed from the formula: $\tan \theta = \frac{V}{H}$

where H = amount of rain in a horizontal-mouth gauge, and V = amount in a vertical-mouth gauge kept facing the wind by means of a vane.

upon the elevated structure upon which it is placed ; (2) an increase with height of the angle with the vertical at which the rain falls, resulting from augmented wind velocity. In other words, the observations showed that the diminution in the amount of rain caught by elevated gauges was accompanied by greater obliquity of the paths of the falling rain-drops.

Many persons interested in rainfall matters, however, at the time the results of these observations were published, fell into the error of conceiving that the diminished amount of rain in gauges elevated above the ground was an effect of the increased obliquity *per se* of the falling rain.

The fallacy,[10] alluded to by Sir John Herschel, of supposing that an increase in the angle with the vertical can diminish *per se* the rainfall upon a horizontal surface, was exposed by Mr. H. Meikle about the year 1820, but much more thoroughly by Dr. G. F. Burder in 1871. It would be irrelevant to the subject to discuss the question at length; but the nature of the fallacy may be briefly indicated through the aid of the truth that parallelograms upon equal bases and between the same parallels are of equal area. In fig. 1 let the pair of straight lines AB, DC or AG, DE represent,

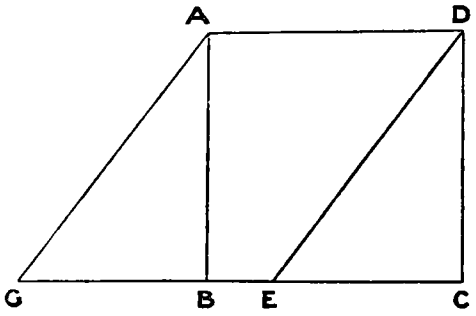

FIG. 1.

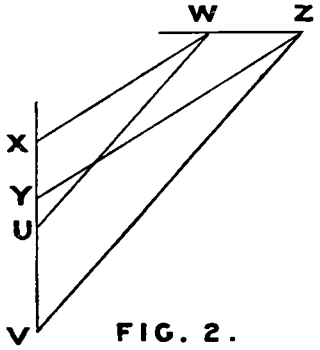

FIG. 2.

according as the rain-drops are falling vertically or with a given degree of obliquity, the direction of fall of a shower of rain of a certain density. Let the rain-drops, further, after having fallen vertically for a time, as represented by the lines AB, DC, be all deflected under the influence of a constant horizontal force such as the wind may, for the sake of the argument, be regarded, at the level

[10] Meikle, H., *Annals of Philosophy*, **14**, p. 212 ; **15**, p. 269 ; **16**, p. 421.
Burder, G. H., controversial correspondence in *Met. Mag.*, **6** (1871), pp. 75, 95, 139, 189, 210.
Du Port, J. M., *Met. Mag.*, **6**, pp. 72, 94, 133.

DA to the same amount as indicated by the oblique lines AG, DE. Upon this postulate it is permissible to represent the "rain-lines" in the oblique shower contained within any vertical plane as bounded by the parallelogram A G E D, which is equal to the area A B C D, hypothetically assumed to be a parallelogram. The bases BC and GE are, therefore, equal, and contain exactly the same number of incident "rain-lines" per unit time and given density of rain.

In order to understand what happens to the rain-drops in an oblique shower it is necessary to examine more closely the properties of the parallelogram AGED. In this parallelogram the two diagonals are of unequal length, a fact which is merely another aspect of the truth that the rain-paths considered as lying within its area, while preserving the same horizontal distance from one another as within the area of A B C D, approach nearer to one another in a direction indicated by vertical lines across them. In short then, the rain-drops in an oblique shower remain unaltered with respect to horizontal distance from one another so far as the inclination *per se* of the paths of the drops is concerned, as many reaching a given horizontal surface in a given time as would in a vertical shower of the same intrinsic density, but they undergo concentration in the direction of vertical lines across their paths, a fact which explains why a rain gauge or any surface tilted towards inclined rain receives more rain than a horizontal gauge or surface into which or upon which such inclined rain falls. It should be noted that for the purpose of demonstrating the geometrical nature of the problem it is legitimate and necessary to conceive of the rain-drops as all undergoing deflection at the same level and to the same amount. If the drops become deflected at different levels the obliquely falling rain, of course, becomes concentrated, and a variable force like the wind may act in many ways by causing increasing density of rain in one place at one moment with a corresponding decreased density in another place; but these circumstances are obviously more than are involved by the mere change in the angle of the falling rain, and the above exposition relates only to a fallacy connected with the geometrical aspect of the problem. In the case of vertical receiving surfaces or vertical-mouth gauges a difference in the angle of the falling rain does *per se* affect the rainfall, as will be apparent from an inspection of fig. 2, which, constructed upon the same lines of reasoning as fig. 1, represents W X Y Z and W U V Z, as trapeziums instead of parallelograms.

In order to resume and complete the epitome of the subject of the diminution in the amount of rain caught by gauges elevated upon poles, towers, narrow sloping roofs, &c., through the influence of the wind, it is necessary to observe that the extent of knowledge in this direction was, so far as observations made in this country are concerned, summarised by Mr. G. J. Symons[11] in 1878, and that it was far more exhaustively discussed by Dr. H. Wild[12] in 1885, and by Prof. Cleveland Abbe[13] in 1888, who both availed themselves of data from all countries in which experimental work had been done. Wild found that in the winter months the diminution of recorded rainfall with height was very much greater in Russia than in England, and he concluded that the difference was associated with the much greater number of snowy days[14] in the former country.

Cleveland Abbe related his data to the law of Archibald, which states that for small altitudes the velocity of the wind increases approximately as the square root of the altitude, and he found the following relation connecting the deficit of rain in elevated gauges with their height above the ground to obtain: $D = \cdot 06 \sqrt{H}$. The co-efficient ·06, however, derived from the average of many years' observations in various parts of the world cannot be safely adopted for individual occurrences of precipitation at any particular locality.

From these studies Abbe further deduced a correction for the readings of rain gauges in open windy situations, which consists in placing a second gauge[15] similar to the one for which the correction is to be applied, at twice the height above the ground, and adding to the reading of the lower gauge 2·414 times its excess over that of the higher.

This cursory retrospect of the principal experimental work which has advanced our knowledge respecting the effects of wind in diminishing the catch of rain by gauges, would not be complete were it

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[11] *British Rainfall*, 1878, p. 24.

[12] *Repertorium für Meteorologie*, **9** (1885), No. 9, p. 1.

[13] *American Meteorological Journal*, 1889, p. 241.

[14] The average number of days with snow per annum in the neighbourhoods of London and St. Petersburg are respectively about 20 and 100.

[15] It is clear that the two gauges must be of the same form and dimensions; also that if the lower gauge stands upon the ground, the upper gauge should be supported by a somewhat thin pole. Unless these conditions are realised the difference in the readings of the two gauges will not bear a simple relation to the difference of wind velocity at the two heights, in accordance with Archibald's law.

omitted to mention the important series of observations made at the experimental rain gauge stations near Berlin, from 1885 to 1892. The results, which were discussed by Dr. G. Hellmann,[16] showed that owing to differences of wind exposure very unequal amounts of rain were recorded in the winter months at stations less than $1\frac{1}{4}$ miles apart.

The primary object of this series of experimental observations was to ascertain how close together rain gauges ought to be set, or in other words to determine in the flat country around Berlin the area upon which the rainfall would be fairly represented by a single rain gauge; in consequence of the local wind disturbances just referred to this question was not answered.

In the same paper in which these results are published, Hellmann describes some roof experiments carried out by himself in Berlin for the purpose of ascertaining the influence of wind upon the catch of rain by gauges in different situations upon the roof. The readings of the gauges taken in conjunction with that of an anemometer demonstrated beyond doubt that a gauge which was placed near the central part of a roof sloping inwards caught more rain than one which was established 10 feet higher at the edge, because it was well protected from the wind. Thus was added additional confirmation of what was concluded through the English experiments, namely, that the loss of rain in gauges elevated on buildings is simply due to wind.

II.—NATURE OF WIND DISTURBANCE.

There is now to be considered upon the basis of the available data, the probable nature of the disturbances attributable to wind, affecting rainfall measurements. The facts that have been gleaned through the various sets of experimental observations already noticed, respecting the action of obstacles, upon which rain gauges have been placed, in occasioning irregularities and disturbances in the normal flow of currents of air, and still more the fact that rain gauges, protected from the wind by special contrivances, collect, as will be seen later, more rain than unprotected ones, warrant the conclusion that the effect of a rain-laden wind upon striking a gauge is to carry past its mouth a quantity of water which ought to fall through it. It is probable that there takes place about the mouth of a wind-swept

[16] *Meteorologische Zeitschrift*, **9** (1892), p. 173; also *Berliner Zweigvereins der Deutschen Meteorologischen Gesellschaft*, **9** (1892), p. 10.

rain gauge the formation of a complicated system of eddies, which prevent a certain proportion of rain from entering the gauge; but the manner in which such eddies are generated, and the extent of their complexity, could only be suggested by laboratory experiments. Whilst, then, our knowledge of the physical processes that are engendered when currents of air strikes a rain gauge is, in so far as it concerns their specific nature, incomplete, yet there exist certain data which shed some light as to the relative amounts of error due to gauges whose mouths present different angles to the wind.

The data in question are furnished by two sets of observations, one made at Aldershot by Sergt. J. Arnold,[17] from 1869 to 1874, the other at Hawsker, by the Rev. F. W. Stow,[18] during 1870 and 1871.

At Aldershot, in addition to horizontal-mouth gauges placed at ground level, and at altitudes of 6 inches, 3, 6, 12, 25 feet, two other gauges with their funnel mouths inclined at 45° to the horizon, and enabled by means of a vane to face the wind, one at 6 feet, the other at 30 feet above the ground, were employed. The yearly total amounts of rain received by the two inclined-mouth gauges, whilst considerably greater than those of all the horizontal-mouth gauges, are very accordant, a slight excess being shown by the upper gauge during the first three years, and by the lower gauge during the second three years. The averages of the two gauges for the six years are almost identical. These results are interesting in so far as they indicate that for the particular angle, namely 45°, at which the mouths of these gauges were inclined to the horizon, the difference of wind force between the altitudes of 6 and 30 feet was inadequate to occasion greater loss of rain through funnel-eddy disturbances at 30 feet than at 6 feet. The Hawsker experimental observations involved a comparison between the catch of horizontal and vertical-mouth gauges at 1, 5 and 10 feet above the ground, and their results are sufficiently important to be briefly discussed.

In the following table, adapted from the articles of Mr. Stow, to which reference has already been made[18], are shown the monthly values expressed in percentage numbers of the six rain gauges in question, for parts of the years 1870 and 1871.

The readings of the two higher horizontal-mouth gauges are given

[17] *British Rainfall*, 1869—1874.

[18] *British Rainfall*, 1870, p. 9; 1871, p. 16.

in percentages of those of the lowest; and the readings of the two lower vertical-mouth gauges are similarly given in percentages of those of the highest :—

	HORIZONTAL 3-inch GAUGE.			VERTICAL 3-inch GAUGE. (Mounted on a vane so as to face wind).		
	1 foot.	5 feet.	10 feet.	1 foot.	5 feet.	10 feet.
Sept., 1870	100	85	81	82	89	100
Oct., ,, ...	100	95	93	90	96	100
Nov., ,, ...	100	90	88	87	97	100
Dec., ,, ...	100	88	83	81	92	100
Jan., 1871	100	84	76	82	95	100
Feb., ,, ...	100	91	84	79	94	100
Mar., ,, ...	100	86	75	79	91	100
April, ,, ...	100	93	92	82	92	100
May, ,, ...	100	92	91	77	81	100
June, ,, ...	100	94	81	78	87	100
July, ,, ...	100	94	91	77	90	100
Aug., ,, ...	100	90	83	85	93	100
Sept., ,, ...	100	95	95	84	95	100
Oct. (till 23rd)...	100	93	91	83	92	100

It will be noticed that the decrease with height in the catch of the horizontal-mouth gauges is roughly proportional to the increase with height in the catch of the vertical-mouth gauges, and that in most months the differences are very nearly proportionate. One might be tempted to infer hastily, in view of these proportionate ratios, that a certain fraction, increasing with height, of the rain that fell at Hawsker being driven horizontally, or with an upward deflection, by the wind, was prevented from falling for a time, and thus was received by the vertical-mouth gauges only.[19] Theoretical principles, however, do not justify such an interpretation. So far as can be seen, the main source of the decrease with height in the amounts of rain caught by horizontal-mouth gauges, is increased funnel-eddy action associated with augmented wind velocity; whilst the primary cause of the increase with height in the amounts caught by vertical-mouth gauges is the increased obliquity of the falling rain, likewise resulting

[19] It is clear that to whatever extent the *rainfall* over a given horizontal surface may for short spaces of time be diminished through wind, the longer the rain lasts the greater the probability that the effect will be completely counterbalanced, when a sudden check in the velocity of the wind over the horizontal surface permits to fall the excess of rain which should have fallen over a contiguous horizontal surface behind it. As these questions, however, appertain to the subject of the effect of wind upon the *fall* of rain, as distinct from the catch of rain, with which alone this paper is concerned, they will not be further dealt with.

from augmented wind velocity, any differences that may exist in funnel-eddy disturbance at different heights being probably in the case of vertical-mouth gauges that face the wind, much smaller than in the case of horizontal-mouth gauges. The peculiarities, therefore, which a comparison of the above figures reveals, and which call for comment, attach to the circumstance that the decrease with height in the rain received by the one type of gauge, and the increase by the other, should have been so nearly of the same magnitude; and to the likelihood, which is important from the point of view of this article, that with vertical-mouth rotating gauges loss of rain due to the eddying of wind around the funnels is much diminished. From these considerations, a repetition elsewhere of the Hawsker experiments, could scarcely fail to be of interest. It may, indeed, be questioned whether the accuracy of the apparatus used at Hawsker was beyond suspicion, for on two of the occasions for which daily readings of the gauges are given, when there was very little wind, and very little difference in the calculated angles of the falling rain at 1 foot and 10 feet above the ground, the upper vertical-mouth gauge recorded an altogether unaccountable excess of rain. In the movements of vertical-mouth rotating gauges inertia errors may lurk, and cause less than the proper quantity of rain to be caught.

This part of the subject treating of the relative quantities of rain received by gauges whose mouths present different angles to the wind, must not be concluded without reference to the type of instrument known as the tipping-funnelled rain gauge. The function of this apparatus of automatically adjusting itself, so that its mouth is always perpendicular to the wind, was stated in the above review of the Rotherham experimental rain gauges. Theoretically, this gauge should receive more rain than any other, but its indications were shown to be altogether defective. Apart from the fact that the mechanical refinements required to perfect such a gauge render it liable to get out of order, loss of rain with the use of this instrument probably proceeds from the constant rebuff from the interior of the funnel of air under increased pressure.

III.—METHOD OF CORRECTING READINGS AT A WIND-SWEPT STATION.

Before treating of the special mechanical arrangements that have been tried or adopted for protecting rain gauges from the wind, we may describe a method put forward by Herr J. Schubert[20] in 1906

[20] *Meteorologische Zeitschrift*, **23** (1906), p. 444.

for correcting the rainfall figures indicated by a gauge, which suffers undue exposure to wind, with respect to a neighbouring gauge, say a few miles distant, whose situation may be regarded as normal. This method depends upon the relation that subsists between the discrepancies in the readings of two such gauges as apparent in times of rain and snow, these being much greater in snowy than in rainy weather. Let the rainfall of a sufficiently long period at the place where the rain gauge, subject to normal conditions of wind-exposure is situated, be designated as 100, and the corrected rainfall at the place where the gauge is more freely exposed to the wind as $100+x$; further let $100-\text{A}$ denote the recorded rainfall at the exposed station for rainy periods, and $100-\text{A}-s\text{B}$ for snowy periods, s being the proportion of the precipitation in the snowy periods which falls as snow. Under the term "snow" is included sleet and rain mixed with snow. When for a given snowy period or month $s=1$, then the recorded rainfall at the exposed station for that period or month becomes simply $100-\text{A}-\text{B}$. Now, in order to obtain the value of x, the amount by which the rainfall figures for the exposed station must be corrected, it is necessary to solve $k=\frac{x+\text{A}}{\text{B}}$ where k is an empirical constant. For the purpose of finding k one may eliminate x, either by establishing beside any exposed gauge in the neighbourhood a similar gauge, fitted with some efficient contrivance for protecting it from the wind, or placing it in a sheltered position near such an exposed gauge.

For a pair of gauges so close together x may reasonably be considered to vanish, so that $k=\frac{\text{A}}{\text{B}}$. The value of k being thus ascertained, x is solved $=k\text{B}-\text{A}$, a quantity which will, of course, be plus or minus according as the true rainfall is greater or less at the exposed than at the sheltered station. Some small uncertainty attaches to determinations of the values of k, which are not quite constant, ranging from ·13 to ·22, as given for six places in Germany by Schubert. As the chief example of the applicability of his method, Schubert affords results for two stations at Karzig, in Neumark, more than $1\frac{1}{4}$ miles apart, one of them being situated within a glade and the other outside the forest. In order to test this method for reducing the recorded rainfalls of two neighbouring places to equal conditions of wind-protection, he compares its results with those derived through a reduction of the quantities of precipitation to equal mean wind velocities as obtained by direct anemometer observations. The values of x, as deduced for the two stations at

Karzig by both processes of calculation, accord remarkably well and show that the rainfall at the open station, although recorded through wind disturbance as less than that at the glade station, was actually 2 per cent. greater. Schubert does not in his paper enter into a sufficient number of details as to the conditions under which, and the lengths of time for which, data for a few given German stations are furnished, but the nature of the correction is fairly clearly elucidated.

IV.—PROTECTIONAL CONTRIVANCES.

The various mechanical contrivances that have been suggested or adopted for diminishing or removing the error in the readings of exposed rain gauges due to the wind may be classified according to the following types :—

(1) Protection devices for use with ground-level gauges.
(2) Cross-partitioned gauges.
(3) Simple wind-shields.
(4) Wind-protection jackets.
(5) Fence enclosures.

(1) *Devices for use with Ground-level or "Pit" Gauges.*—These have not come into practical use, and are mentioned merely on account of their bearing upon the history of the subject.

In 1873 there were carried out near Edinburgh some experiments, indicating that a powerful obstruction to wind is offered by such objects as fishing nets or wire screens of which the meshes may be an inch or an inch-and-a-half wide; and the proposal was accordingly made by Dr. Alexander Buchan[21] to place a rain gauge in a shallow pit, over which a wire screen with meshes an inch wide was laid. The pit was to be made about a yard wide in an open space, and the screen to be exactly level with the surface of the ground, the rim of the rain gauge being an inch below the wire screen.

By this device eddy disturbances about the mouth of the gauge would be eradicated. The in and out splashing of the rain drops upon striking the wires of the screen would counterbalance one another if the diameter of the pit were sufficiently great, and the amount of error arising from the wetting of the wires, being practically constant for each time they were wetted, could be approximately determined. Much earlier than this, about 1842, Mr. Thomas

[21] *Journal of the Scottish Meteorological Society*, **4**, p. 146.

Stevenson, C.E.,[22] with the assistance of the keepers of the lighthouses on the coast of Scotland, conducted an experimental investigation upon the subject of rain gauge exposure, and having arrived at the conclusion that the generation of eddies around the mouth of a gauge was a potent source of error, designed a form of gauge whose receiving area placed level with the surface of the ground should be long and narrow, the rim being separated from the surface of the ground by a brush of thick bristles, which were to serve the purpose of preventing eddy action as well as the rebounding of rain and hail from the rim and sides of the funnel.

The supposed virtues of this gauge do not, however, appear to have been submitted to the test of experiment.

(2) *Cross-Partitioned Rain Gauges.*—In order to check the blowing out of a gauge of snow during high wind, Dr. Wild,[23] of St. Petersburg, constructed a gauge, 500 sq. cms. (80 sq. in.) in receiving area, fitted with two vertical partition walls of zinc plate which intersected at right angles and reached from the ground up to a height of 2 inches. below the rim. Comparative results for gauges, with or without this cross-partition, are given by Wild for the years 1877-1882, and they show that the efficiency of the partition in obviating wind disturbances is considerable. The differences between the readings of gauges thus protected and those unprotected were greatest in time of snow accompanied by high wind, for which, as above intimated, this type of instrument was mainly invented.

(3) *Simple Wind Shields.*—The use of these was first suggested by Professor Joseph Henry,[24] who recommended to the rainfall observers organised by the Smithsonian Institution in the United States a gauge of the ordinary cylindrical pattern, to which was soldered an inch below the rim a horizontal circular tin plate, four or five inches wide. By this means eddy-action interfering with the catch of rain was found to be reduced; results of the observations made with this type of shield are not, apparently, at hand.

(4) *Wind-Protection Funnel-Jackets.*—It is to Prof. F. E. Nipher, of St. Louis, that the invention of this special and serviceable type of wind-shield is attributable. After having experimentally investigated the subject of funnel-protectors, Nipher[26] adopted a

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[22] *Edinburgh New Philosophical Journal*, **33**, p. 17.

[23] *Repertorium für Meteorologie*, St. Petersburg, **9**, No. 9, p. 1.

[24] *Monthly Weather Review* **22** (1894), p. 25.

[26] *Zeitschrift* der Oesterreichischen Gesellschaft für Meteorologie, **14** (1879), p. 250; also *Proceedings* of American Association, St. Louis, 1878, p. 103.

pattern which he describes in the paper referred to below. The protecting-jacket, which can be screwed on to the rain gauge at any desired height, is so adjusted that the margin of its wide upper end stands level with the rim of the rain gauge, whilst its lower end is fastened to the lower part of the receiving vessel. In order that the spattering and rebounding of raindrops from its inner surface into the rain gauge may be prevented, the protector is either composed entirely of wire-gauze or its inner surface is covered with a network of wire.

The effect of the application to a rain gauge of such a protecting-jacket is to deflect the wind downwards, and to permit the same air-movement over the gauge as occurs in its neighbourhood. Experiments testing the efficiency of this contrivance were first performed by Nipher himself, who describes them in the paper already referred to; the results of these were to show that whereas an unprotected rain gauge, six feet above the ground in a sheltered position, only indicated a loss of 3 per cent. in the amount of rain collected, as compared with a neighbouring one fitted with a protector; several unprotected gauges, 118 feet above the ground on a roof, indicated losses of from 18 to 50 per cent. with reference to others which had the protecting-jacket. The next experimental work was done in Berlin by Professor R. Börnstein,[27] who, giving in a paper embodying results of observations in relation to different kinds of precipitation and different wind velocities, concluded that Nipher's protector was on the whole thoroughly well adapted for lessening the imperfections in the catch of rain through the influence of wind, but suggested that a heating-apparatus should be added for winter use, to guard against the entry into the rain gauge of masses of snow accumulated around the rim of the protector.

About 1885 Dr. Wild,[28] who had devoted much attention to the subject of rain gauge exposure, pursued further investigations in connection with the funnel protector, the efficiency of which he compared with that of a fence enclosure shortly to be considered; and in 1893 he had so far perfected the Nipher jacket by introducing a form capable of being taken to pieces, that it could be easily packed for transmission, with the result that by 1895 ten per cent. of the Russian rainfall stations, organized by the Central Physical

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[27] *Meteorologische Zeitschrift*, **1** (1884), p. 381.

[28] *Bull Acad. Imp. Sciences*, St. Petersburg. Ve Série **3** (1895), p. 193.

Observatory at St. Petersburg, had already been supplied with this means of wind-protection.

(5) *Fence-Enclosures.*—The rectangular wooden enclosures for rain gauges are constructed of planks or wicker work, and furnished with a door for the entry and exit of the observer; their protecting power varies with their dimensions, but the size and form of fence adopted by Wild in 1885 has proved, as will be shortly seen, the most efficient wind-protection contrivance that has been yet tried.

A full comparison between the relative efficiencies of Wild's fence-enclosure and Nipher's funnel-protector as disclosed by a series of observations made at St. Petersburg, as well as between the readings of unprotected rain gauges and gauges possessing a Nipher jacket, according to observations at St. Petersburg, Pavlosk and Katharinenburg, is effected by Emil Berg[29] in a paper published in 1895.

The figures in the annexed table, quoted from Berg's paper, represent deviations expressed in percentages from the readings of an unprotected rain gauge, and afford a comparison between the relative efficiencies of the fence and funnel-jacket as protecting agents :—

St. Petersburg.	Nipher-jacket.	Wild-fence.	Difference (W—N).
1885	6·9	6·8	—0·1
1886	4·4	6·0	+1·6
1887	7·6	11·5	+3·9
1888	9·7	12·5	+2·8
1889	7·3	8·3	+1·0
1890	4·3	5·4	+1·1
1891	13·4	17·5	+4·1
1892	11·0	14·5	+3·5
1893	9·6	13·9	+4·3
1894	7·2	8·7	+1·5

It will be noticed that, except in the year 1885 when the fence-enclosed and Nipher gauges gave almost identical results, the superior efficiency of the fence over the Nipher jacket is distinctly indicated.

The next table quoted and adapted from the same paper, expresses the readings of the unprotected rain gauge during the years 1891–1894 at St. Petersburg in percentages of the two protected ones, and exhibits the superiority of the fence to the Nipher protection related to low and high wind velocities and to different kinds of precipitation.

[29] *Bull. Acad. Imp. Sciences*, St. Petersburg. Ve Série, **3** (1895), p. 193.

Mean Wind Velocity.	Unprotected NIPHER-JACKET.		Unprotected WILD-FENCE.	
	0—3 metres per second.	7 or more metres per second.	0—3 metres per second.	7 or more metres per second.
Dry snow	87 %	40 %	83 %	31 %
Wet snow	92 ,,	80 ,,	86 ,,	80 ,,
Light rain	92 ,,	90 ,,	85 ,,	89 ,,
Heavy rain	99 ,,	99 ,,	99 ,,	99 ,,

It must be borne in mind, however, as the author of the paper remarks, that the station at St. Petersburg is an exceptionally exposed one, and although no fence protection for comparison with the Nipher protection was established at either of the much more sheltered stations, Pavlosk and Katharinenburg, it may be concluded in as much as the differences at these latter stations between the indications of the unprotected and Nipher gauges is much smaller and much more constant that those between the corresponding two gauges at St. Petersburg, that the discrepancies between the two forms of protection would be found at the sheltered stations to be negligible. The Nipher funnel protector may therefore be regarded as suitably adapted to its purpose for less extreme conditions of wind-exposure, but as distinctly less advantageous than the wooden fence of Wild for abnormally open situations. Indeed, it may be concluded that the conditions inside the fence enclosure at the level of the funnel of the rain gauge, frequently approximate, even during the prevalence of high winds, to those of a calm, for Dr. Wild[31] records the fact that he once saw an anemometer inside recording 1·5 metres per second (3½ miles per hour), and one outside 14 metres per second (31 miles per hour).

It should finally be mentioned that in 1895 further experimental stations for protected rain gauges were being established in Russia, and that the records of these after a long series of years should settle the question of protection.

Drawings of the Wild-fence and Nipher-protector as employed at St. Petersburg during the series of observations from 1885 to 1894, which has yielded such important results, will be found in *British Rainfall*, 1885, p. 22. The dimensions of the fence-enclosure are indicated in these drawings.

[31] *British Rainfall*, 1885, p. 22.

This article may be summarized as follows :—

(1) The evidence furnished by abundance of experimental observations in several countries during the last century goes far to prove that in the measurement of rainfall during wind loss of rain occurs as a result of the gauges themselves.

(2) This loss may be generally attributed to eddy disturbances.

(3) In many cases the corrected rainfall, for a sufficiently long period of time, of a locality in which a rain gauge as compared with one in a neighbouring locality suffers undue exposure to wind, may be calculated by means of an equation involving as known data (*a*) the different amounts of discrepancy between the readings of the two gauges in times of rain and of snow, and (*b*) an empirically determined constant.

(4) The reading of a rain gauge in a free open situation may be corrected for wind if a similar gauge be placed at twice the height above the ground, by adding 2·414 times its excess over that of the upper gauge.

(5) Of the various mechanical contrivances that have been used for protecting rain gauges from the wind the most serviceable are the funnel-jacket of Nipher and the fence enclosure of Wild.

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RECORDS OF EVAPORATION AND PERCOLATION.

THE records of evaporation for 1906 are from the same eleven stations as for 1905; but we hope to have a larger number in future as we have heard of several new evaporation tanks being set up in different parts of the country.

The elaborate comparison of evaporation at Camden Square, with other meteorological elements in 1905, has been continued during 1906, with the addition of the temperature of the water in the tank at surface and bottom, as read at 9 a.m., and although the Table of five-day means or totals is not published on this occasion, we give all the data in the form of a diagram, showing, as on the previous occasion, the five-day values "smoothed" by taking the mean of three, in the order: *abc*, *bcd*, *cde*, *def*, &c. The general relation between the annual march of temperature, sunshine and evaporation, are strikingly similar to that which obtained on the previous occasion.

The chief difference from 1905 is seen to lie in the late rise of the evaporation curve above the line of ·50 in. in five days, and the long continuance above that line from the 31st to the 51st pentad. In 1905 it was as high from the 26th to the 30th pentad, and again from the 34th to the 42nd. Put in other words the evaporation was never less than ·10 in. per day on the average for 100 consecutive days in 1906, and only for two separate periods of 40 and 20 days in 1905. The well-marked cold and gloomy period in April and May, from the 23rd to the 29th pentad, resulted in a remarkable retardation of evaporation.

The 9 a.m. temperature of the water at surface and bottom, and of the soil at 1 foot, kept very close together throughout the period when they were observed, and not far from the mean air temperature. As in the previous year the main factors in determining the amount of evaporation appear to be the mean temperature of the air in winter and the duration of sunshine in summer.

Turning now to the monthly figures for evaporation as expressed in the Table, setting forth the values for each year since 1885, we are struck by the total amount evaporated in 1906, 19·03 in., being greater than in any previous year, though 1893, 1899, and 1901, all

came within an inch of it. The excess was due mainly to the high evaporation in the months from June to September, amounting to 13·02 in. The average for these four months is 9·71 in., but the greatest amount previously measured was 13·49 in. in 1899. Higher readings have occurred in all the months except September, which only once before had as high a figure as 2 inches (in 1899, when it was 2·01 in.). Evaporation was above the average in every month, except January, February, and May, and the whole amount for the first two months is so slight as hardly to affect the annual total.

The average evaporation at the 11 stations was 18·07 in. Three had more than 20 inches, viz.: Downholland, 23·09 in.; Southwold, 22·54 in., and Kennick, 21·64 in.; three had less than 16 inches, viz., Falkirk, 13·51 in.; Wakefield, 13·97 in., and Croydon, 15·81 in. It is not easy to account for these variations, unless it be that the correction for rainfall is not always applied in exactly the same manner.

The question as to the necessity for having as large a tank as 6 feet square has often arisen, and Mr. Baxendell carries on observations at Downholland under identical conditions, with a 6 ft. square tank and another 3 feet square, *i.e.*, with one quarter the area. The comparative results for 1906 are as follows :—

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
6 ft. square.....	·72	·69	1·60	2·49	2·40	3·55	3·64	3·44	2·16	1·44	·61	·35	23·09
3 ft. square.....	·61	·70	1·63	2·55	2·42	3·56	3·71	3·43	2·94	1·29	·56	·34	23·03

The results are practically identical, the differences being well within the limits of error in reading the gauges.

The objection to the use of small evaporation gauges is that they become unduly heated by the sun and so are subject to excessive evaporation. This is well shown in Mr. Baldwin Latham's table, where the 5 inch evaporator, fully exposed to the air, disposed of 31·51 in., or almost exactly twice as much as the 8 inch evaporator floating in water. We have been favoured by Mr. Midgely, of Bolton, with returns of evaporation from an 8 inch evaporator in the Park, which, although not floating in a large body of water, is freely exposed to air in a louvred screen which keeps out rain and protects it from solar radiation, and it is interesting to notice how closely the readings accord with those of the standard tank at Heaton Reservoir in the immediate vicinity.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
Bolton Park.....	·58	·68	1·18	2·55	1·50	2·43	2·54	2·51	2·02	1·00	·82	·42	18·23
Heaton Reservoir.	·54	·22	1·10	1·99	1·46	2·82	3·11	2·19	2·06	·97	·47	·18	17·11

The evaporator sheltered from radiation gives, as one would expect, greater evaporation in winter, very nearly the same in spring and autumn, and less in summer, than the evaporator which is freely exposed to radiation and wind, but large enough not to be unduly heated.

Mr. Baldwin Latham sends his usual returns of percolation through chalk and gravel, and it is interesting to notice that almost all the rain of January and February, and most of that in March, November and December, percolated; while practically no percolation took place through chalk between May and October. We are also able this year to give percolation observations through sandy soil made by Mr. David Ronald, at Cauldhame, Falkirk. His percolation and evaporation figures do not agree very closely, and they almost seem to suggest that the direct measurement of evaporation gives too low a result, especially in the month of August. Further observations may possibly suggest an explanation.

Evaporation at Camden Square, 1885–1906.

	Jan. in.	Feb. in.	March. in.	April. in.	May. in.	June. in.	July. in.	Aug. in.	Sept. in.	Oct. in.	Nov. in.	Dec. in.	Total. in.
1885.	·20	·38	·86	1·71	1·98	2·77	3·29	2·25	1·13	·77	·17	·11	15·62
1886.	·23	·13	·53	1·59	1·78	2·93	3·12	1·86	1·46	·63	·27	·12	14·65
1887.	c·07	·29	·76	1·72	1·79	3·68	3·76	2·54	1·25	·78	·21	·07	16·78
1888.	·07	·37	·48	1·16	2·71	2·24	1·44	1·90	1·17	·60	·43	·03	12·60
1889.	·03	·18	·62	1·07	1·76	2·97	2·34	1·96	1·52	·42	·29	c·13	13·03
1890.	·08	·19	·50	1·44	2·63	2·14	2·33	2·02	1·27	·79	·31	*·04*	13·74
1891.	*·03*	·16	·73	1·35	1·66	2·83	2·34	1·67	1·00	·62	·20	*·22*	12·81
1892.	·05	·09	·60	1·88	2·65	3·05	2·84	2·20	1·01	·36	·02	*·20*	14·95
1893.	c*·03*	·01	·92	2·33	3·06	3·62	3·12	2·85	1·48	·70	·11	·01	18·18
1894.	c·04	·28	·83	1·17	2·10	2·48	2·49	1·91	·97	·37	·20	·11	12·87
1895.	·14	·64	·36	1·26	3·06	3·31	3·07	2·12	1·27	·54	·19	·07	16·03
1896.	·16	·24	·64	1·57	3·06	3·21	3·63	1·96	·68	·47	·18	·00	15·80
1897.	·23	·21	·76	1·23	2·99	2·48	3·60	2·49	·99	·63	·26	c·14	15·73
1898.	·19	·37	·51	1·28	1·56	2·10	2·96	2·53	1·73	·45	·11	·16	13·95
1899.	·04	·28	·52	1·24	2·34	3·67	4·03	3·78	2·01	·45	·41	·11	18·88
1900.	·03	·16	·80	1·46	2·35	2·85	4·25	2·61	1·61	·89	·24	·15	17·40
1901.	·13	·24	·60	1·98	3·25	3·85	3·37	3·19	1·42	·64	·31	c·05	18·93
1902.	·16	·15	·71	1·75	1·78	2·33	3·30	1·71	1·47	·69	·28	·27	14·60
1903.	·26	·39	·97	1·57	2·24	2·79	3·35	2·53	1·51	·86	·29	·12	16·88
1904.	c·09	·26	·54	1·68	1·81	3·32	4·06	2·86	1·20	·50	·26	·02	16·42
1905.	·17	·35	·65	1·14	3·19	2·49	3·65	2·23	1·24	·78	·09	·16	16·14
Average	·09	·26	·66	1·50	2·37	2·91	3·16	2·34	1·30	·62	·23	·08	15·52
1906.	·06	·21	·73	1·90	1·90	3·53	3·65	3·46	2·38	·78	·27	·16	19·03
Diff.	—·03	—·05	+·07	+·40	—·47	+·62	+·49	+1·12	+1·08	+·16	+·04	+·08	+3·51

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

1906	Evaporation from 12 in. Evaporator floating in Water.	Condensation in 12 in. Evaporator floating in Water.	Average daily Temperature of Water at 9 a.m. in 12in. Evaporator floating in Water.	Evaporation from 5 in. Evaporator fully exposed in Air.	Condensation in 5 in. Evaporator fully exposed in Air.	Average daily Temperature of Water at 9 a.m. in 5 in. Evaporator fully exposed in Air.	Temperature of the Dew Point at 9 a.m.
	in.	in.	°	in.	in.	°	°
Jan. ...	·365	·02	38·90	·915	—	39·38	37·19
Feb. ...	·365	·05	36·19	1·015	—	36·53	34·22
March	·645	·02	39·39	1·815	—	40·83	35·64
April .	1·930	—	45·66	4·010	—	48·00	36·79
May...	1·775	·02	55·67	3·685	—	58·63	46·42
June ..	2·655	—	61·88	4·945	—	63·60	50·55
July...	2·700	—	66·64	5·000	—	70·00	55·05
Aug. ..	2·345	—	66·00	4·335	—	69·01	56·62
Sept...	1·715	—	59·60	2·995	—	60·14	51·82
Oct. ...	·710	·025	53·63	1·555	—	54·50	50·52
Nov. ..	·490	·01	45·13	·820	—	44·38	43·16
Dec...	·255	—	36·40	·425	·01	36·39	33·70
Total .	15·950	·145	...	31·515	·01	...	...
Mean .	...	...	50·42	...	...	50·95	44·31

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

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

1906	DUPPAS HOUSE, CROYDON.			TIMSBURY.		TWYFORD.	
	Rainfall. Level of Gauge 158·00 ft. above O.D.	Percolation Gauge. *Chalk.* Level of Gauge 157·00 ft. above O.D.	Percolation Gauge. *Gravel.* Level of Gauge 157·00 ft. above O.D.	Rainfall. Level of Gauge 96·39 ft. above O.D.	Percolation Gauge. *Chalk.* Level of Gauge 89·75 ft. above O.D.	Rainfall. Level of Gauge 138·72 ft. above O.D.	Percolation Gauge. *Chalk.* Level of Gauge 137·49 ft. above O.D.
	in.	in.	in.	in.	in.	in.	in.
Jan.....	4·295	4·1008	4·0316	6·66	6·9074	6·59	6·4065
Feb. ...	2·085	1·8151	1·6652	2·91	2·3909	2·94	2·4341
March...	1·155	·7281	·5350	1·11	·7650	1·38	1·1812
April ...	·570	·1111	·0550	·85	·0387	·87	·0908
May.....	1·445	—	·0823	2·01	·0064	2·00	—
June ...	2·595	—	·6029	2·36	·0072	1·72	—
July.....	·700	—	·0528	·55	·0076	·54	—
Aug. ...	1·365	—	·3025	1·13	·0060	·99	—
Sept. ...	1·565	—	·0070	1·04	·0100	1·20	—
Oct.....	3·765	—	·3127	5·72	·0193	5·93	·0035
Nov. ...	4·240	2·6935	3·9004	4·23	3·0442	3·99	2·2426
Dec.....	2·035	·8525	1·1163	1·92	1·2674	2·05	1·4663
Total ...	25·815	10·3011	12·6637	30·49	14·4701	30·20	13·8250

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

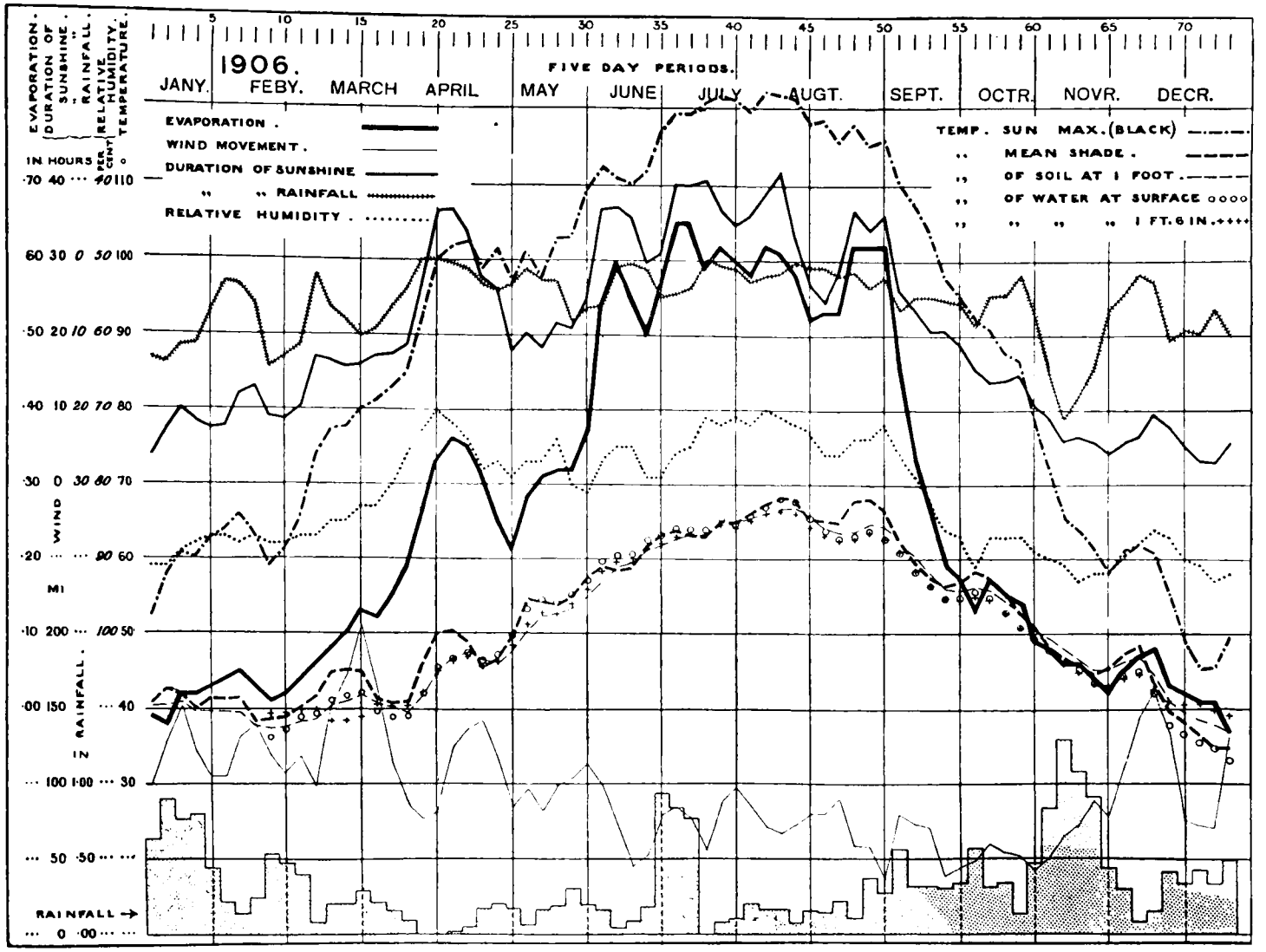
Lat. 56° 0′ 37″ N. Long. 3° 48′ 3″ W.
Rain Gauge 73 feet above O.D.

By Mr. DAVID RONALD, C.E.

1906	Rainfall.	Percolation through Sandy Soil.	Calculated Evaporation from Sandy Soil.	Evaporation from Free Water Surface.
	in.	in.	in.	in.
January	4·23	3·51	0·72	0·24
February ...	2·99	1·62	1·37	0·32
March.....	3·94	3·48	0·46	0·87
April	1·25	...	1·25	1·45
May.....	4·46	1·58	2·88	1·45
June	1·71	0·08	1·63	2·54
July.....	1·92	...	1·92	2·33
August	6·12	1·58	4·54	1·56
September ...	1·28	...	1·28	0·99
October	5·64	3·40	2·24	1·07
November ...	3·88	2·66	1·22	0·36
December ...	2·50	2·18	0·32	0·33
	39·92	20·09	19·83	13·51

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

EVAPORATION FROM A WATER-SURFACE AND OTHER METEOROLOGICAL PHENOMENA.



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

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EVAPORATION IN 1906.

County	*London,*	*Surrey,*	*Hampshire,*	*Suffolk,*	*Devon,*	*Lincoln,*
Station	Camden Sq.	Croydon, Duppas Ho.	Otterbourne	Southwold	Moretonhampstead. Kennick	Revesby WaterWorks
Latitude	51° 32′ 20″ N.	51° 22′ 5″ N.	51° 0′ 28″ N.	52° 20′ N.	50° 38′ 30″ N.	53° 9′ N.
Longitude	0 8 0 W.	0 6 13 W.	1 19 55 W.	1 41 E.	3 41 20 W.	0 3 W.
Altitude	111 ft.	158 ft.	112 ft.	44 ft.	842 ft.	130 ft.
Observer	H.R. Mill, D.Sc.	Baldwin Latham, C.E.	W. Matthews, C.E.	A. C. Herbert	S. C. Chapman, C.E.	J. Shaw
Size of tank	6 ft. × 6 ft.	1 ft. diameter	6 ft. × 6 ft.	4 ft. × 4 ft.	6 ft. × 6 ft.	6ft. × 6ft.
Capacity (galls.)	450	5	450	200	450	450
Height of lip above ground	3 inches	4 in. above water	3 inches	3 inches	3 inches	2 inches.
	in.	in.	in.	in.	in.	in.
January	·06	·35	C ·57	·65	·13	·19
February	·21	·31	·05	1·10	·43	·17
March	·73	·63	·71	1·31	1·04	·50
April	1·90	1·93	2·69	2·14	2·71	1·52
May	1·90	1·75	2·25	2·58	2·63	1·76
June	3·53	2·66	3·43	3·50	3·60	2·47
July	3·65	2·70	3·79	3·28	3·98	3·21
August	3·46	2·34	3·45	3·21	2·90	3·07
September	2·38	1·72	2·48	2·70	2·59	2·01
October	·78	·69	·19	1·23	·84	·90
November	·27	·48	·32	·61	·50	·55
December	·16	·25	·07	·23	·29	·01
Year, 1906	19·03	15·81	18·86	22·54	21·64	16·36
Average, 1898–1906	16·91	15·97	19·00	21·13	20·16	16·68
Difference	+2·12	—·16	—·14	+1·41	+1·48	— ·32
RAIN. Year, 1906	24·26	25·82	26·62	25·20	34·84	25·76
RAIN. Average, 1898–1906	23·61	24·77	26·94	22·62	39·39	23·93
RAIN. Difference	+·65	+1·05	—·32	+2·58	—4·55	+1·83

Note.—C indicates condensation.

EVAPORATION IN 1906—(*continued*).

County	*Lancashire,*	*Lancashire,*	*Yorkshire.*	*Yorkshire,*	*Stirling.*	Mean of Eleven Stations.
Station	Downholland	Bolton, Heaton	Wakefield, Stanley Grange.	Ardsley Reservoir	Falkirk, Cauldhame.	
Latitude	53° 34′ 38″ N.	53° 34′ 55″ N.	53° 45′ N.	53° 43′ 10″ N.	56° 0′ 37″ N.	
Longitude	3 1 12 W.	2 28 21 W.	1 28 W.	1 33 20 W.	3 48 3 W.	
Altitude	14 ft.	521 ft.	234 ft.	390 ft.	73 ft.	
Observer	J. Baxendell.	R.H. Swindlehurst, C.E.	H. Stanley Haworth	C.C. Smith, C.E.	David Ronald, C.E.	
Size of tank	6 ft. × 6 ft.	6 ft. × 6 ft.	6 ft. × 6 ft.	6 ft. × 6 ft.	8 in. diameter.	
Capacity (galls.)	450	450	450	450	1½	
Height of lip above ground	3 inches	3 inches	...	3 inches	2 in. above water	
	in.	in.	in.	in.	in.	in.
January	·72	·54	·18	·19	·24	·24
February	·69	·22	·25	·32	·32	·37
March	1·60	1·10	·91	·98	·87	·93
April	2·49	1·99	1·73	2·11	1·45	2·06
May	2·40	1·46	1·50	2·02	1·45	1·97
June	3·55	2·82	2·36	2·86	2·54	3·03
July	3·64	3·11	2·39	2·88	2·33	3·18
August	3·44	2·19	1·95	2·74	1·56	2·75
September	2·16	2·06	1·58	1·99	·99	2·06
October	1·44	·97	·62	·67	1·07	·85
November	·61	·47	·29	·33	·36	·44
December	·35	·18	·21	·06	·33	·19
Year, 1906	23·09	17·11	13·97	17·15	13·51	18·07
Average, 1898–1906	(22·25)	...	...	...	...	...
Difference	+·84	...	...	...	..	...
RAIN. Year, 1906	31·55	49·70	23·01	24·97	39·92	30·15
RAIN. Average, 1898–1906	28·45	41·68	23·01	...	...	...
RAIN. Difference	+3·10	+8·02	·00	...	...	...

THE DURATION OF RAINFALL IN 1906.

WE are beginning to wonder what recording rain gauges are generally used for. Each succeeding year sees a larger number bought, and presumably applied to some useful or amusing purpose; but year after year the same faithful few yield returns which are sent to us for publication. We have heard of cases in which a recording rain gauge has been bought "to save trouble," but your recording rain gauge is no labour-saving contrivance. The best that was ever made is bound to give far more trouble to a conscientious Observer (and we are resolute in recognizing no other Observers) than the simple Snowdon visited once daily; but the results are worth taking trouble for, and we believe that a great many recording gauges are at work and being properly looked after. But if our belief is correct what is done with the records? Only eight come to Camden Square.

We invite Observers who have recording gauges under their charge to let us have an account of their experience, mentioning, of course, the form of gauge which they have used, and mentioning also the reasons that have prevented them from communicating the results to us for publication. We have consistently advocated the use of recording rain gauges, as an addition to the ordinary equipment, and Mr. Symons for many more years did the same. Meanwhile the interest in rainfall work is steadily growing as the increase in the number of Observers plainly testifies; so that there is some reason for being puzzled.

The records that have been sent in for 1906 are fairly comparable with those of 1905. At Camden Square the conditions were as close as possible to the average of the 25 years over which the record extends, and we publish, as usual, a comparative Table. The Casella rain gauge in use as the standard at Camden Square is not so sensitive to very light rains as some of the float patterns, and a Halliwell gauge records considerably longer duration. The returns from the recording gauges at Timsbury, Twyford and Melbury Moor appear to show that the figures given for those stations in 1904 were excessive, as they compare well with those for 1905. The greatest difference from 1905 is shown at Cauldhame, Falkirk;

but it is interesting to note that while the duration varied from 420 hours at Camden Square to 988 hours at Melbury Moor, the mean hourly rate of rainfall varied only from ·060 in. at Croydon to ·047 in. at Hodsock Priory, the mean for the eight stations being ·054 in. per hour.

The shortest duration of rainfall for any month was 7·6 hours at Camden Square, in August; the longest duration in one month was 171 hours, at Cauldhame, in November, giving the extraordinarily high mean of 8·5 hours per rain day, and the extraordinarily gentle rate of ·023 in. per hour.

Comparison of Amount, Duration and Intensity of Rainfall, and number of Rain Days at Camden Square with the Average for 25 *years*, 1881-1905.

Year.	Amount.		Duration.		Intensity.		Rain Days.	
	Total.	Per cent. of average	Total.	Per cent. of average	Total.	Per cent. of average	Total.	Per cent. of average
	in.		hours		in.			
1881	27·92	116	486·3	118	·057	97	152	95
1882	27·14	113	480·7	117	·056	96	165	104
1883	24·40	102	393·5	95	·062	106	164	103
1884	20·35	85	336·8	82	·060	103	150	94
1885	26·64	111	470·0	114	·057	96	165	104
1886	27·01	112	427·2	104	·063	108	176	110
1887	19·21	80	300·3	73	·064	109	140	88
1888	27·74	115	435·7	105	·064	108	173	108
1889	23·85	99	428·5	104	·056	95	169	106
1890	21·23	88	409·5	99	·052	88	161	101
1891	28·15	117	490·3	119	·057	97	178	112
1892	22·61	94	372·5	90	·061	103	158	99
1893	19·80	82	388·0	94	·051	87	148	93
1894	27·94	116	477·7	116	·058	99	M 185	116
1895	21·47	89	380·0	92	·057	96	*m* 137	86
1896	23·52	98	404·3	98	·058	99	157	98
1897	22·86	95	371·2	90	·062	105	164	103
1898	*m* 17·69	74	*m* 298·5	72	·059	101	140	88
1899	22·54	94	337·5	82	·067	115	144	90
1900	23·28	97	366·3	89	·064	108	173	108
1901	22·17	92	310·2	75	M ·071	121	128	80
1902	20·84	87	352·5	86	·059	101	162	102
1903	M 38·10	158	M 88·5	167	·055	94	179	112
1904	20·65	86	491·8	119	*m*·024	72	160	100
1905	22·97	96	456·4	111	·050	86	162	102
Average.	24·01	100	414·2	100	·058	100	159·5	100
1906	24·26	101	420·4	102	·058	100	163	102
Difference from average	+ ·25	+ 1	+ 6·2	+ 2	0	0	+3·5	+2

Duration of Rainfall at Camden Square in 1906.

DR. H. R. MILL.

1906.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	4·02	62·5	·064	18	·22	3·5
February	1·89	52·2	·036	21	·09	2·5
March	1·08	43·5	·025	17	·06	2·6
April	·51	9·9	·052	10	·05	1·0
May	1·09	28·4	·038	14	·08	2·0
June	2·89	16·8	·172	8	·36	2·1
July	·61	8·6	·071	7	·09	1·2
August	·87	7·6	·115	8	·11	0·9
September	1·75	21·4	·082	8	·22	2·7
October	3·15	49·6	·064	17	·19	2·9
November	4·19	68·3	·061	17	·25	4·0
December	2·21	51·6	·043	18	·12	2·9
Year	24·26	420·4	·058	163	·15	2·6

Duration of Rainfall at Duppas House, Croydon, in 1906.

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

1906.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	4·30	70·5	·061	19	·23	3·7
February	2·08	36·6	·057	20	·10	1·8
March	1·16	32·1	·036	18	·06	1·8
April	·57	13·3	·043	8	·07	1·7
May	1·44	30·2	·048	14	·10	2·1
June	2·60	18·0	·144	8	·32	2·2
July	·70	7·9	·088	8	·09	1·0
August	1·36	10·1	·135	7	·19	1·4
September	1·57	20·2	·078	8	·20	2·5
October	3·76	54·2	·069	19	·20	2·9
November	4·24	70·1	·060	19	·22	3·7
December	2·04	64·5	·032	22	·09	2·9
Year	25·82	427·7	·060	170	·15	2·5

Duration of Rainfall at Timsbury, Hants, in 1906.

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

1906.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	6·66	102·5	·065	21	·32	4·9
February	2·91	77·8	·037	21	·14	3·7
March	1·11	45·3	·025	16	·07	2·8
April	·85	27·9	·030	8	·11	3·5
May	2·01	41·3	·049	14	·14	3·0
June	2·36	22·4	·105	6	·39	3·7
July	·55	8·2	·067	6	·09	1·4
August	1·13	19·7	·057	12	·09	1·6
September	1·04	15·3	·068	6	·17	2·6
October	5·72	70·9	·081	23	·25	3·1
November	4·23	65·8	·064	19	·22	3·5
December	1·92	46·7	·041	16	·12	2·9
Year	30·49	543·8	·056	168	·18	3·2

Duration of Rainfall at Twyford, Hants, in 1906.

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

1906.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	6·59	95·8	·069	19	·35	5·0
February	2·94	77·7	·038	18	·16	4·3
March	1·38	42·7	·032	16	·09	2·7
April	·87	20·9	·042	7	·12	3·0
May	2·00	40·8	·049	15	·13	2·7
June	1·72	20·2	·085	6	·29	3·4
July	·54	10·5	·051	5	·11	2·1
August	·99	14·1	·070	8	·12	1·8
September	1·20	14·2	·084	6	·20	2·4
October	5·93	63·7	·093	22	·27	2·9
November	3·99	67·8	·059	15	·27	4·5
December	2·05	42·3	·048	14	·15	3·0
Year	30·20	510·7	·059	151	·20	3·4

Duration of Rainfall at Melbury Reservoir, Parkham, Devon, in 1906.

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

1906.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	9·35	144·3	·065	28	·33	5·2
February	6·04	118·3	·051	24	·25	4·9
March	3·45	67·0	·051	19	·18	3·5
April	2·04	40·5	·050	13	·16	3·1
May	4·62	104·3	·044	27	·17	3·9
June	1·78	39·7	·045	13	·14	3·1
July	1·60	46·3	·035	18	·09	2·6
August	3·84	61·4	·062	23	·17	2·7
September	1·10	20·4	·054	8	·14	2·5
October	7·41	109·8	·068	26	·28	4·2
November	5·74	123·2	·047	26	·22	4·7
December	4·48	113·1	·040	21	·21	5·4
Year	51·45	988·3	·052	246	·21	4·0

Duration of Rainfall at Hodsock Priory, Notts, in 1906.

MR. H. MELLISH.

1906.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	2·91	65·7	·044	17	·17	3·9
February	1·96	42·9	·046	19	·10	2·3
March	1·28	41·8	·031	16	·08	2·6
April	·62	13·3	·047	12	·05	1·1
May	1·38	38·2	·036	17	·08	2·2
June	2·15	35·3	·061	10	·22	3·5
July	·44	9·1	·048	5	·09	1·8
August	1·46	12·9	·113	14	·10	0·9
September	·97	8·7	·111	6	·16	1·5
October	5·01	90·4	·055	23	·22	3·9
November	2·72	70·5	·039	16	·17	4·4
December	2·53	65·1	·039	24	·11	2·7
Year	23·43	493·9	·047	179	·13	2·8

NOTE.—Clock under repair during 4 rain days in August and 7 in October; duration for these days estimated.

Duration of Rainfall at Hesketh Park, Southport, Lancashire, in 1906.

MR. J. BAXENDELL.

1906.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	3·97	75·7	·052	20	·20	3·8
February	3·30	72·6	·045	20	·17	3·6
March	2·62	63·7	·041	17	·15	3·7
April	1·04	24·9	·042	11	·09	2·3
May	3·22	72·4	·044	23	·14	3·1
June	1·82	29·5	·062	13	·14	2·3
July	1·21	25·3	·048	14	·09	1·8
August	2·99	40·8	·073	17	·18	2·4
September	1·70	20·5	·083	8	·21	2·6
October	5·62	92·1	·061	25	·22	3·7
November	2·36	43·1	·055	18	·13	2·4
December	2·85	72·9	·039	21	·14	3·5
Year	32·70	633·5	·052	207	·16	3·1

Duration of Rainfall at Cauldhame, Falkirk, Stirlingshire, in 1906.

MR. DAVID RONALD, C.E.

1906.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	4·23	102·0	·041	27	·16	3·8
February	2·99	46·5	·064	18	·17	2·6
March	3·94	79·0	·050	15	·26	5·3
April	1·25	47·0	·027	10	·12	4·7
May	4·46	82·0	·054	21	·21	3·9
June	1·71	19·0	·090	10	·17	1·9
July	1·92	21·0	·091	21	·09	1·0
August	6·12	51·0	·120	23	·27	2·2
September	1·28	22·0	·058	9	·14	2·4
October	5·64	125·0	·045	27	·21	4·6
November	3·88	171·0	·023	20	·19	8·5
December	2·50	68·0	·037	20	·13	3·4
Year	39·92	833·5	·048	221	·18	3·8

REPRESENTATIVE RECORDS OF DAILY RAINFALL IN 1906.

WE print the full daily records from the ten stations previously utilized for this purpose. The gauge at Tyrmynnydd, Rhayader, however, takes the place of Nantgwillt, the latter having been submerged by the completion of the reservoir of the Birmingham Water Works; the distance between the two positions is so slight that the record may be looked on as continuous. In each case we believe that the record is absolutely accurate, and has been kept with scrupulous exactness.

The records will serve as specimens of how rainfall registers should be kept. They are useful too for reference when considering the section in Part II. on the Distribution of Rainfall in Time. They may also remind our readers of the vast amount of valuable rainfall data which we are obliged to store unused, for we receive daily figures from considerably more than 3000 stations, which we have not space to publish. From every return, however, the total rainfall and number of rain days are printed, and the maximum fall of the year is dealt with systematically, while the figures are occasionally utilized in the construction of rainfall maps of particular days. It may be noted, however, that every return whether utilized fully or in part has been checked and tested after being received, and is kept at 62, Camden Square, at the service of the Observer or of the public.

REGISTER OF RAINFALL IN 1906

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

Lat. 51° 32′ 20″ N. Long. 0° 8′ 10″ W.

BY DR. H. R. MILL.

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

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	...	·01	·01	...	..	·08	...	...	...	·38	·02	...	1
2	·22	·03	...	...	·09	·01	...	·12	...	·44	·07	·01	2
3	·15	·05	...	...	·01	...	...	...	...	...	·22	·02	3
4	·36	·01	...	...	·04	...	...	...	·81	·01	·52	...	4
5	·47	...	...	...	...	...	...	...	...	...	...	·12	5
6	...	·01	...	...	...	...	...	...	...	...	·57	·04	6
7	·30	...	...	...	...	...	...	...	...	·19	·46	..	7
8	...	·16	·11	...	·01	...	...	·04	...	·39	·93	·12	8
9	·13	·13	...	...	...	...	...	...	...	·18	·04	...	9
10	...	·14	·32	...	·01	...	...	·02	...	·01	...	...	10
11	·19	·03	·04	...	...	...	...	...	...	...	...	·08	11
12	·74	...	·06	...	...	...	...	...	·01	·10	...	·05	12
13	06	·04	·03	·01	·01	...	...	·04	·27	...	...	·23	13
14	...	·12	·04	...	...	·02	...	...	·32	...	...	...	14
15	·07	·04	...	...	...	·02	·02	·01	...	·01	·15	·29	15
16	·43	·31	·01	...	·09	·23	...	·06	·20	...	·31	·26	16
17	·09	·37	·01	...	...	...	...	·29	·06	·05	·27	...	17
18	·17	·17	·02	·03	...	...	·20	...	·05	·22	·14	...	18
19	...	·06	·06	...	...	...	·03	...	·03	·01	·07	...	19
20	·10	...	·09	...	·36	...	...	...	...	...	·36	...	20
21	·03	...	·05	...	...	...	·04	...	...	...	...	...	21
22	...	·02	...	·01	...	...	...	...	...	·04	...	...	22
23	...	...	·04	·09	·06	·26	...	...	...	...	...	...	23
24	·35	·08	·12	·01	...	...	...	·29	...	...	...	·03	24
25	·13	...	·02	·01	·01	...	...	...	...	...	...	·34	25
26	...	·07	·05	...	·30	...	·21	...	...	·05	·01	·06	26
27	...	·03	...	·22	·06	...	·08	...	...	...	...	·10	27
28	...	·01	...	·02	...	2·21	...	...	...	·27	...	·07	28
29	·03		...	·06	...	·06	·03	...	...	·47	·02	·01	29
30	...		...	·05	·03	...	...	...	...	·33	·03	·34	30
31	...		...		·01		...	...		...		·04	31
Totals	4·02	1·89	1·08	·51	1·09	2·89	·61	·87	1·75	3·15	4·19	2·21	Totals
Totals from Jan. 1	4·02	5·91	6·99	7·50	8·59	11·48	12·09	12·96	14·71	17·86	22·05	24·26	Totals from Jan. 1
Rain Days	18	21	17	10	14	8	7	8	8	17	17	18	Total 163

Average of 49 years ..... 25·12 in.

REGISTER OF RAINFALL IN 1906

Kept at **Penzance, Morrab Gardens,** *in the County of* **Cornwall,**

Lat. 50° 7′ 0″ N. Long. 5° 32′ 12″ W.

BY CHARLES H. BENN, ESQ.

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

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·44	·03	·28	...	·25	...	·02	·18	...	·76	·03	·03	1
2	·90	·11	·01	...	·14	...	...	·07	...	·21	·11	·14	2
3	·07	·11	...	...	·01	...	...	·01	...	·39	·78	·03	3
4	·19	·07	·02	·07	·04	...	...	·05	...	·42	·16	·06	4
5	·43	...	...	·12	·94	...	·03	...	...	·01	...	·16	5
6	·26	·05	...	...	·04	...	...	...	...	·08	·09	·02	6
7	·43	·03	·06	...	·14	...	·01	...	...	·07	·28	...	7
8	·21	·08	·18	...	...	...	...	·03	...	·26	·89	·22	8
9	·06	·14	·08	...	...	...	...	·03	...	...	·01	·01	9
10	·01	·24	·04	...	·04	..	·02	...	...	...	...	·04	10
11	·42	·05	·20	...	·48	...	...	·09	·09	...	...	·28	11
12	·46	·38	·02	...	·02	...	·07	·53	·07	·20	...	·38	12
13	·22	·03	·32	...	...	...	·02	·05	·27	·02	...	·20	13
14	·05	·19	·01	...	...	...	·01	·16	·58	·06	·08	·13	14
15	·20	·22	·05	...	·02	·19	...	·19	·10	·20	·23	·41	15
16	·65	1·01	·01	...	·06	·02	·01	·04	·01	·24	·48	·05	16
17	·20	·03	·07	...	·55	·45	·01	...	...	·16	·25	·08	17
18	·05	·65	·12	...	·72	...	·24	...	...	·19	·27	...	18
19	·02	·09	...	·08	...	...	·14	...	...	·14	·06	...	19
20	·08	·01	...	...	...	...	·11	...	...	·07	·96	...	20
21	·03	·03	...	·06	...	·02	·08	...	...	·02	·06	...	21
22	...	1·30	·10	...	·27	...	·09	...	...	·01	...	...	22
23	...	·03	·07	...	·33	·23	·11	·03	...	...	·02	·01	23
24	·21	·55	·10	·42	·02	...	...	·10	...	...	·02	·09	24
25	·03	·22	·05	·09	·61	...	...	·01	...	...	·03	·32	25
26	·01	·14	...	·01	·75	...	·25	...	...	·10	·02	·21	26
27	·02	·09	...	·18	·13	·55	·11	...	...	·13	·06	1·75	27
28	·04	·22	...	·12	·06	·61	·04	...	...	·14	·01	·29	28
29	·09		...	·34	·01	...	...	...	...	·60	·15	·14	29
30	·02		...	·06	...	...	·07	...	·06	·21	·36	·21	30
31	·08		...		...		·15	...		·02		·23	31
Totals	5·88	6·10	1·79	1·55	5·63	2·07	1·59	1·57	1·18	4·71	5·41	5·49	Totals
Total from Jan. 1	5·88	11·98	13·77	15·32	20·95	23·02	24·61	26·18	27·36	32·07	37·48	42·97	Total from Jan. 1
Rain Days	29	27	19	11	22	7	20	15	7	25	24	25	Total 231

Average of 13 years ..... 40·03 in.

REGISTER OF RAINFALL IN 1906

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

Lat. 51° 2′ 31″ N. Long. 2° 31′ 15″ W.

BY REV. H. A. BOYS.

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

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·60	·02	·23	...	·08	·13	...	·10	...	·54	·05	·01	1
2	·47	·03	...	...	·08	...	...	·06	·01	·71	·03	·09	2
3	·27	·04	·01	...	·02	...	·13	...	...	...	·04	·01	3
4	·34	...	...	...	·34	...	...	·05	·02	·75	·08	·04	4
5	·28	...	·01	·16	·39	...	...	·01	...	·01	·01	·18	5
6	·06	...	...	...	·01	...	·03	·04	...	·03	·56	...	6
7	·24	·01	...	...	·02	...	·01	...	...	·26	·17	...	7
8	·05	·02	·28	...	...	...	...	...	...	·38	·54	·14	8
9	·23	·05	...	...	...	...	...	...	...	·18	·12	·01	9
10	·10	·20	·30	...	...	...	...	·03	...	·20	...	·01	10
11	·28	·01	·11	...	...	...	...	·02	...	·08	·01	·14	11
12	·57	·01	·13	...	...	...	...	·02	·07	·12	...	·26	12
13	·06	·17	·19	·01	1·19	...	·16	·03	·30	·03	...	·03	13
14	·01	·20	·01	...	...	·02	...	·01	·32	·02	·03	...	14
15	·12	·11	·12	...	...	·01	·01	·46	·29	·01	·04	·28	15
16	·42	·50	...	...	·39	·24	...	·86	...	·04	·36	...	16
17	·14	·26	·01	·01	·21	...	...	·17	...	·08	·21	·01	17
18	·14	·10	·05	...	·01	...	·17	...	...	·45	·08	·01	18
19	...	·04	...	...	...	...	...	...	...	·07	·09	...	19
20	·04	·01	·02	·01	·14	...	...	...	·02	·02	·31	...	20
21	...	...	·03	·04	...	...	·08	...	...	·01	...	...	21
22	...	·54	...	...	·02	...	...	...	...	...	·01	...	22
23	...	·01	·02	·01	·30	·87	...	·16	...	·02	...	...	23
24	·38	·12	·01	·38	·10	...	...	·20	...	·01	·02	·09	24
25	·20	...	·01	...	·53	...	...	...	...	...	·02	·35	25
26	...	·20	...	·07	·58	...	·17	·01	...	·14	·05	·04	26
27	...	·03	...	·10	·14	·01	...	...	...	...	·01	·03	27
28	...	·02	...	·05	...	·87	·64	...	...	·16	...	...	28
29	·12		...	·39	...	...	...	...	·01	·15	·07	...	29
30	·01		...	...	...	...	...	...	...	...	·05	·20	30
31	·01		...		·15		...	...		...		·03	31
Totals	5·14	2·70	1·54	1·23	4·70	2·15	1·40	2·23	1·04	4·47	2·96	1·96	Totals
Totals from Jan. 1	5·14	7·84	9·38	10·61	15·31	7·46	18·86	21·09	22·13	26·60	29·56	31·52	Totals from Jan. 1
Rain Days	24	23	17	11	19	7	9	16	8	25	24	20	Total 203

Average of 10 years..... 29·80 in.

REGISTER OF RAINFALL IN 1906

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

Lat. 53° 21′ 35″ N. Long. 1° 6′ 15″ W.

BY HENRY MELLISH, ESQ., J.P.

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

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	...	·02	·24	...	·11	·19	...	...	...	·63	·09	·02	1
2	·15	·03	...	...	·04	...	...	·18	...	·65	·12	·02	2
3	·19	...	...	...	·06	...	...	·08	...	...	·18	·03	3
4	·01	·01	·01	...	·03	...	...	...	...	·22	·22	·48	4
5	·51	...	...	...	·06	...	...	...	...	·03	...	·15	5
6	·26	·01	...	...	...	...	...	...	...	...	·30	·01	6
7	·56	·01	·07	...	·19	...	...	...	...	·11	·30	·05	7
8	·05	·18	·14	...	...	...	...	·20	...	·05	·67	·08	8
9	·16	·03	·05	...	·03	...	...	·02	...	·31	·03	...	9
10	...	·04	·08	...	...	...	·06	·22	...	...	...	...	10
11	·06	·05	·17	...	...	...	...	...	...	...	...	·03	11
12	·14	...	...	·04	...	·01	...	·02	...	·13	...	·03	12
13	·10	·05	...	·01	...	...	·04	...	·23	·05	...	·13	13
14	...	·01	·01	...	...	·06	...	·03	·32	...	...	...	14
15	·09	·07	·02	...	·01	·23	...	·02	...	·01	·14	·38	15
16	·10	·11	...	·04	·08	·34	...	·23	·29	·05	·18	·18	16
17	·25	...	...	...	...	·10	...	·01	·06	·60	·07	·02	17
18	·17	·03	·03	...	...	...	...	...	·01	·93	·28	·06	18
19	...	·22	...	...	·34	...	·08	...	·06	...	...	·01	19
20	...	...	·05	·01	·19	...	...	·03	...	·09	·09	·01	20
21	·03	...	·01	·07	...	·26	...	...	...	·03	...	...	21
22	...	...	...	·17	·01	...	...	...	...	...	...	...	22
23	...	...	·11	·02	·10	·17	...	·02	...	·01	·01	...	23
24	·08	·03	·14	...	...	...	...	·39	...	·11	·01	·01	24
25	...	...	·14	·08	·04	...	...	·01	...	...	...	·37	25
26	...	·04	·01	·04	·02	...	...	...	...	·06	·03	·17	26
27	...	1·00	...	·07	·02	·07	...	...	...	·11	...	·03	27
28	...	·02	...	·02	...	·72	·21	...	...	·43	...	·12	28
29	...		...	...	...	...	...	...	...	·12	...	...	29
30	...		...	·05	...	...	·05	...	...	·22	...	·12	30
31	...		...		·05		...	...		·06		·02	31
Totals	2·91	1·96	1·28	·62	1·38	2·15	·44	1·46	·97	5·01	2·72	2·53	Totals
Total from Jan. 1	2·91	4·87	6·15	6·77	8·15	10·30	10·74	12·20	13·17	18·18	20·90	23·43	Total from Jan. 1
Rain Days	17	19	16	12	17	10	5	14	6	23	16	24	Total 179

Average of 31 years..... 24·40 in.

REGISTER OF RAINFALL IN 1906

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

Lat. 54° 29′ 35″ N. Long. 3° 10′ 40″ W.

FOR THE ROYAL METEOROLOGICAL SOCIETY.

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

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·50	·15	·38	...	·01	·16	·14	·58	...	·34	·05	·51	1
2	·31	·14	...	...	·83	...	·02	1·70	...	...	·83	1·60	2
3	·40	...	...	...	·81	...	...	·20	...	...	·73	·30	3
4	·22	...	...	..	·13	...	...	·12	...	2·47	·03	1·20	4
5	·66	...	·99	...	2·20	...	...	...	1·51	·26	...	1·32	5
6	·50	·27	·09	...	·76	...	...	...	·20	·65	...	...	6
7	·34	·42	1·00	...	...	...	·62	...	·11	·25	·01	1·15	7
8	·65	·34	·36	...	·96	...	...	·04	·01	·12	...	·27	8
9	·77	1·61	·08	...	...	...	...	·26	...	·14	...	...	9
10	·16	1·25	1·45	...	·28	...	...	·45	...	·03	...	...	10
11	1·58	...	·65	...	·21	...	...	·26	·46	·48	...	·28	11
12	·85	...	...	...	·03	...	·11	2·65	·02	·68	...	1·15	12
13	...	·20	...	·03	·05	...	·10	·66	1·12	·02	...	·50	13
14	·31	·18	1·31	...	...	...	1·56	·14	·55	·25	·98	...	14
15	·97	1·10	1·56	...	·20	...	·26	·96	·30	·81	1·43	·58	15
16	·30	...	1·10	·21	·69	·11	1·08	·79	·11	1·11	1·70	·04	16
17	1·36	...	·19	·19	·37	·07	·77	·48	...	·10	1·03	·06	17
18	·40	...	...	...	·02	...	1·71	...	...	·77	·03	...	18
19	...	·64	...	·13	·72	...	·22	·38	...	·35	·30	...	19
20	1·08	...	...	·05	·01	·36	...	·35	...	·56	·02	...	20
21	·01	...	·04	·45	...	·26	·05	·97	...	·50	·88	...	21
22	...	...	·05	·03	...	...	·30	·02	...	·45	·11	...	22
23	·06	..	...	·31	·70	·13	·75	·22	...	·19	...	·40	23
24	1·60	1·45	·04	...	·81	·14	...	1·57	...	·01	...	·95	24
25	·25	·46	·06	·66	3·03	·74	...	·03	...	...	·03	·42	25
26	·01	·45	...	·01	·15	2·61	...	·10	...	·85	1·03	...	26
27	·10	·03	...	1·01	1·12	...	·20	...	...	2·72	·11	·37	27
28	**6·15**	·65	...	·51	·62	...	·35	...	...	·85	2·30	·07	28
29	·01		...	·25	·15	...	...	...	...	·68	2·00	·11	29
30	·03		·03	·25	·72	·03	·18	...	...	·12	·25	·05	30
31	·35		...		·52		...	...		·11		·42	31
Totals	19·93	9·34	9·38	4·09	16·10	4·61	8·42	12·93	4·39	15·87	13·85	11·75	Totals
Total from Jan. 1	19·93	29·27	38·65	42·74	58·84	63·45	71·87	84·80	89·19	105·06	118·91	130·66	Total from Jan. 1
Rain Days	28	16	17	14	26	10	17	22	10	28	20	21	Total 229

Average of 26 years..... 129·43 in.

REGISTER OF RAINFALL IN 1906

Kept at **Rhayader, Tyrmynydd,** *in the County of* **Radnor,**

Lat. 14° 55′ N. Long. 3° 35′ 28″ W.

BY E. ANTONY LEES, ESQ., C.E.

RAIN GAUGE... { Diameter, 5 in.
Height of top above Ground, 1 ft.
" " " Sea Level, 832 ft.

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·32	·02	·82	...	·09	·22	·08	·58	...	·27	·05	·08	1
2	·32	·80	·02	...	·74	...	·04	·33	...	·77	·02	·33	2
3	·13	·06	...	...	·61	...	...	·18	...	·01	...	·44	3
4	·18	...	...	...	·03	...	...	·04	...	1·35	...	·47	4
5	**1·47**	...	·18	·16	·27	...	·02	...	·26	·05	...	1·09	5
6	·75	·02	...	...	·01	...	·03	...	·03	·38	·17	...	6
7	·45	·04	·70	...	·18	...	·05	...	...	·08	·13	·08	7
8	·18	·50	·28	...	·06	...	...	...	...	·58	·25	·76	8
9	·42	·80	...	...	...	...	...	·11	...	·14	·01	·01	9
10	...	·96	·62	...	...	·72	...	·26	...	·16	...	...	10
11	1·04	·12	·74	...	·09	...	...	·01	·02	·22	...	·44	11
12	·62	·26	·49	·29	·04	...	...	1·06	...	·17	...	·47	12
13	·45	·15	·20	·03	...	...	·28	·58	·27	·12	...	·25	13
14	·15	·13	·47	...	...	...	·11	·13	·41	·02	·04	·11	14
15	·45	·34	·87	...	·15	·01	·10	·62	·40	·04	·56	·32	15
16	·49	·65	·07	·01	·11	·34	·10	·52	...	·42	·54	·04	16
17	·89	...	·03	...	·14	·10	...	·30	...	·87	·61	...	17
18	·79	·08	...	...	·02	...	·29	...	...	·17	·22	...	18
19	...	·64	...	...	...	...	...	·01	·01	·01	·86	...	19
20	·55	·03	...	...	·11	...	...	·06	...	·28	·81	...	20
21	...	...	...	·11	...	·05	·07	·05	...	·32	·19	...	21
22	...	·07	·02	·01	·20	...	·12	...	...	·14	...	...	22
23	...	...	·03	·18	·47	·50	...	·15	...	·42	...	·08	23
24	·98	·58	·03	·15	·31	·05	...	·49	...	...	...	·74	24
25	·10	·03	·02	·02	·30	·05	...	·03	...	...	...	·63	25
26	·01	·33	·02	·01	·45	·02	·02	·04	...	·31	·32	·13	26
27	·01	·04	...	·33	·16	·40	...	...	...	·45	·04	·03	27
28	·08	·35	...	·17	·01	·57	·10	...	...	·77	·04	·05	28
29	·06		...	·10	...	...	...	...	...	·32	·65	·03	29
30	·12		...	·35	·09	...	...	...	·03	...	·10	·36	30
31	·17		...		·18		·03	...		·02		·10	31
Totals	11·18	7·00	5·61	1·92	4·82	3·03	1·44	5·55	1·43	8·86	5·61	7·04	Totals
Total from Jan. 1	11·18	18·18	23·79	25·71	30·53	33·56	35·00	40·55	41·98	50·84	56·45	63·49	Total from Jan. 1
Rain Days	26	23	18	14	24	12	15	20	8	28	19	23	Total 230

Average of 12 years..... 59·11 in.

f

REGISTER OF RAINFALL IN 1906

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

Lat. 57° 8′ 45″ N. Long. 2° 8′ 0″ W.

BY DAVID McHARDY, ESQ.

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

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	...	·05	·04	...	·15	·08	...	·04	...	·05	·60	·04	1
2	·15	·19	...	...	·21	...	·15	·71	...	...	·44	·02	2
3	·34	·18	...	...	...	·02	·02	...	...	·06	·05	...	3
4	·13	·02	...	...	...	...	...	·20	...	·39	·26	·04	4
5	·20	·01	·01	...	·16	...	...	...	·13	·12	·78	·12	5
6	·05	...	...	...	...	...	·01	...	·05	·02	·01	...	6
7	...	·04	...	·04	...	...	...	...	·04	·02	·54	...	7
8	...	·15	·18	...	·47	...	...	·29	·03	·03	·06	·12	8
9	·09	·16	·03	...	...	...	...	·06	·04	·08	·01	·11	9
10	...	·24	·25	...	·03	...	·03	...	...	·07	...	·02	10
11	·02	·40	·45	...	·12	...	·46	...	·05	·81	...	...	11
12	...	·03	·22	...	...	·04	...	·33	...	...	...	·44	12
13	...	·03	...	·12	·41	...	·05	·27	·25	·34	...	...	13
14	...	...	·11	...	·03	·04	·11	·02	·20	·02	·27	...	14
15	...	·22	...	·20	·43	...	...	...	·01	...	·02	·23	15
16	...	...	·09	·50	1·23	·04	·26	·38	·02	...	·15	·15	16
17	...	...	...	...	·15	...	·01	·01	...	...	·19	·02	17
18	·13	·04	·15	...	·27	...	·01	...	·03	·46	·08	·07	18
19	·08	·06	·02	·05	·02	...	...	·27	...	**1·48**	·43	...	19
20	·02	...	·02	...	...	·08	...	·01	...	·05	...	...	20
21	...	...	·02	...	...	...	·03	·48	...	·08	·08	...	21
22	...	...	·21	·11	·03	...	·07	·02	...	·41	...	...	22
23	...	·01	·13	·09	·20	·05	...	·03	...	...	...	...	23
24	·03	·55	·13	...	·87	·01	...	·27	...	...	...	·20	24
25	...	...	·05	·19	·01	·02	...	·03	...	...	·04	...	25
26	...	·02	·01	...	·06	...	...	·14	...	·58	...	·45	26
27	...	·05	...	·23	·06	·03	...	...	...	·04	...	·80	27
28	·26	·07	·06	·02	·06	·01	...	...	...	·02	...	·93	28
29	...		...	...	·05	·15	·02	...	...	...	·17	...	29
30	·02		·02	...	·10	·17	...	...	...	1·02	·16	...	30
31	·05		...		·25		1·31	...		·08		·40	31
Totals	1·57	2·52	2·20	1·55	5·37	·74	2·54	3·56	·85	6·23	4·34	4·16	Totals
Total from Jan. 1	1·57	4·09	6·29	7·84	13·21	13·95	16·49	20·05	20·90	27·13	31·47	35·63	Total from Jan. 1
Rain Days	14	20	20	10	23	13	14	18	11	22	19	17	Total 201

Average of 20 years..... 31·72 in.

REGISTER OF RAINFALL IN 1906

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

Lat. 56° 52′ 10″ N. Long. 5° 26′ 25″ W.

BY COL. J. A. MACDONALD.

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

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·04	·34	·64	...	...	·02	...	·23	...	·15	·52	·86	1
2	·10	·32	..	...	·19	...	...	·44	·06	...	·66	2·46	2
3	...	·16	...	...	·14	...	...	·78	·02	...	·04	1·15	3
4	·15	·04	...	·14	...	...	...	1·13	2·82	·06	...	·61	4
5	·46	·44	·46	·08	·06	...	·06	·02	1·46	·10	...	·54	5
6	...	·10	·32	...	·12	...	...	·31	·46	·50	...	·66	6
7	·30	·65	1·05	·51	·26	...	·09	·17	·42	·09	...	·42	7
8	·48	·32	·42	...	...	...	·09	·18	·02	·19	...	·46	8
9	·30	·16	·06	...	...	...	·24	...	...	·01	...	·20	9
10	·40	·56	·14	...	·02	...	·04	·06	...	·06	...	·10	10
11	1·04	·50	·16	...	·04	...	·06	·46	1·12	·08	·10	·45	11
12	·66	...	·06	...	·56	...	·41	·24	·18	·31	·54	·44	12
13	·48	·32	·10	·29	·62	...	·08	·66	·66	·10	·22	·31	13
14	1·16	·25	·24	·36	...	...	·42	·10	·16	·52	·40	·04	14
15	1·06	·68	·26	·39	·06	...	·22	...	·62	·56	·29	1·44	15
16	·63	·44	**2·88**	·37	·10	...	·27	...	...	·51	·09	·78	16
17	·66	·08	·38	...	...	...	2·86	·15	...	·32	1·32	·46	17
18	·69	...	·28	...	...	...	2·16	·11	...	...	·32	·32	18
19	·18	·32	...	·34	·02	·10	1·16	·62	·02	·34	·54	·20	19
20	·54	·11	...	1·16	·16	·02	·13	·04	...	...	·24	...	20
21	...	...	...	·62	·10	...	·26	·56	...	·85	1·82	...	21
22	·42	..	...	·42	...	·03	·06	·11	...	·59	·24	·04	22
23	1·36	·62	...	...	...	...	·22	·12	...	·61	·07	·48	23
24	·50	·46	...	...	...	·12	·12	·06	...	·23	·27	·42	24
25	·64	·10	...	·56	·02	·29	...	·24	·02	·17	·28	·02	25
26	·10	...	...	...	·03	·26	·46	·52	...	1·99	·75	·66	26
27	2·14	·52	...	·70	·40	·42	...	·04	...	·63	·53	·84	27
28	·66	·26	·10	·06	·04	...	·31	·12	...	·35	·28	...	28
29	·52		·06	·34	...	...	...	...	...	·26	1·52	...	29
30	·26		·02	...	...	...	·09	...	...	·12	·45	...	30
31	·54		·04		·04		·13	...		·26		·78	31
Totals	16·47	7·75	7·67	6·34	2·98	1·26	9·94	7·47	8·04	9·96	11·49	15·14	Totals
Total from Jan. 1	16·47	24·22	31·89	38·23	41·21	42·47	52·41	59·88	67·92	77·88	89·37	104·51	Total from Jan. 1
Rain Days	28	23	19	15	19	8	23	25	14	27	23	26	Total 250

Average of 39 years..... 106·56 in.

REGISTER OF RAINFALL IN 1906

Kept at **Miltown Malbay,** *in the County of* **Clare,**

Lat. 52° 51′ N. Long. 9° 24′ W.

BY MICHAEL MOLOHAN, ESQ.

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

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·05	·06	·22	...	·39	·03	·04	·45	·05	·17	...	·12	1
2	·45	·04	·05	...	·01	...	...	·40	·02	...	·40	·06	2
3	·19	...	·01	...	·14	...	...	·08	...	·09	...	·05	3
4	·02	...	·01	...	·82	...	·03	·01	...	·08	...	·14	4
5	·53	·19	...	·43	·40	...	...	·10	·34	·25	·06	·05	5
6	·23	·03	...	...	·02	...	·05	·04	·07	·15	...	·02	6
7	·26	·14	·36	·13	·01	·03	·07	...	·10	·76	...	·34	7
8	·14	·07	·23	...	·06	...	...	·12	...	·38	...	·05	8
9	·17	·67	·48	...	·01	...	·02	·26	...	·02	...	·02	9
10	·02	·12	·61	...	·19	...	...	·20	...	..	...	·20	10
11	·60	·03	·05	...	...	...	·01	·22	·33	·28	...	·80	11
12	·41	·19	·08	·07	...	...	·34	·45	·06	·13	...	·21	12
13	·17	·07	·34	·01	...	...	·04	·33	·40	·02	·10	·18	13
14	·52	·27	·42	...	...	·01	·19	·50	·26	·10	·18	**1·02**	14
15	·42	·37	·26	...	·01	...	·05	·32	·15	·47	·34	·17	15
16	·21	·06	·10	·08	·02	...	·02	·15	·02	·04	·30	·04	16
17	·67	...	·01	·02	·04	·39	·20	...	...	·07	·32	...	17
18	·04	·14	...	...	·12	·26	·01	...	...	...	·08	...	18
19	·02	·07	...	·06	·23	·12	·08	·25	...	...	·07	...	19
20	·15	·02	...	·09	...	·30	·21	·36	...	·15	·25	...	20
21	...	...	...	·10	...	·32	·06	·06	...	·22	·07	...	21
22	...	·26	·01	·02	·12	·05	·18	...	...	·16	·03	·03	22
23	·03	·13	·01	·04	·42	·24	·09	·36	...	·34	...	·01	23
24	·26	·23	·01	·02	·35	·05	...	·04	...	·13	...	·09	24
25	·04	·16	·02	·09	·12	·50	·20	·08	...	·92	·12	·19	25
26	·05	·45	...	·01	·25	·12	·32	·05	...	·14	·18	·25	26
27	·12	·03	...	·25	·15	·02	·30	...	...	·96	·07	·14	27
28	·56	·41	...	·15	·03	·01	·28	...	...	·85	·23	·10	28
29	·02		·01	·04	...	...	·03	...	..	·42	·18	·11	29
30	·03		...	·01	·05	·26	·20	...	·07	·20	·03	·28	30
31	·12		...		·06		·26	·01		·05		·21	31
Totals	6·50	4·21	3·29	1·62	4·02	2·71	3·28	4·84	1·87	7·55	3·01	4·88	Totals
Total from Jan. 1	6·50	10·71	14·00	15·62	19·64	22·35	25·63	30·47	32·34	39·89	42·90	47·78	Total from Jan. 1
Rain Days	29	24	20	18	24	16	25	23	12	27	18	26	Total 262

Average of 32 years..... 45·18 in.

REGISTER OF RAINFALL IN 1906

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

Lat. 54° 52′ N. Long. 6° 18′ W.

BY JOHN R. WILLIAMS, ESQ.

RAIN GAUGE... { Diameter, 5 in.
Height of top above Ground, 1 ft. 4½ in.
" " " Sea Level, 150 ft.

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	·02	·15	·33	...	·16	·02	·03	·03	..	·15	·15	·30	1
2	·12	·40	·03	...	·61	·02	·48	·82	·09	·03	·44	·15	2
3	·06	·03	...	...	·70	...	...	·30	...	...	·07	·28	3
4	·02	...	·05	·04	·10	...	...	·10	...	·14	·34	·19	4
5	·15	·08	·03	·01	·21	...	·04	...	·05	...	·03	·30	5
6	·20	·04	...	...	·04	...	...	·32	·04	·03	·03	...	6
7	·73	·08	·11	·06	...	...	...	·01	·06	·05	·10	·04	7
8	·17	·29	·16	...	·07	...	...	·21	...	·28	·02	·34	8
9	·16	·25	·08	...	...	...	·03	·34	...	·10	...	·24	9
10	·05	·51	·53	...	·04	...	·10	·18	...	·31	...	·12	10
11	·32	·11	·32	...	·19	...	...	·45	·72	·36	...	·18	11
12	·10	·08	·15	...	...	...	·25	·09	·09	·28	...	·13	12
13	·03	·04	...	·12	...	...	·01	...	·28	·15	...	·09	13
14	·22	·08	·30	·02	·02	...	·07	·12	·32	·12	·34	·08	14
15	·03	·31	·06	...	·07	·01	·20	·31	·18	·18	·20	·76	15
16	·12	...	·25	·32	...	·14	·04	·32	...	·19	·18	·02	16
17	·16	...	·07	·06	·03	·03	·22	·10	...	·02	·12	...	17
18	·25	·23	·05	...	·05	...	·15	·02	..	·25	·58	...	18
19	·02	·23	...	·11	·65	·04	·11	·05	...	·03	·38	...	19
20	·07	...	...	·38	...	·20	·02	...	..	·18	·03	...	20
21	...	·02	...	·15	·07	·05	·04	·36	...	·08	·02	...	21
22	...	...	·09	·06	·08	...	·12	·02	...	·03	...	...	22
23	·02	·05	...	·21	·11	...	·06	·26	...	·22	...	·10	23
24	·09	·32	·02	·39	·06	·40	·02	·73	...	·13	...	·27	24
25	·02	·08	...	·18	·03	·05	...	·12	...	·28	...	·18	25
26	·03	·12	...	·02	·07	·04	·04	·02	...	·43	·41	·34	26
27	·03	·03	...	·26	·26	·01	·30	·03	...	·93	·03	...	27
28	·58	·12	...	·28	·44	·01	·06	...	...	·07	·30	...	28
29	·04		·03	·31	·02	...	...	...	...	·05	·11	·30	29
30	·03		·04	·15	·10	·01	·05	...	...	·12	·31	·12	30
31	·06		...		·24		·51	...		·10		·18	31
Totals	3·90	3·65	2·70	3·13	4·42	1·03	2·95	5·31	1·83	5·29	4·19	4·71	Totals
Total from Jan. 1	3·90	7·55	10·25	13·38	17·80	18·83	21·78	27·09	28·92	34·21	38·40	43·11	Total from Jan. 1
Rain Days	29	23	19	19	25	14	23	24	9	29	21	22	Total 257

Average of 30 years..... 40·65 in.

RAINFALL AT THE ROYAL OBSERVATORY, GREENWICH.

Lat., 51° 28′ 38″ N. Long., 0° 0′ 0″

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

1906	No. of Rain Days.	MONTHLY AMOUNT OF RAIN COLLECTED IN EACH GAUGE.							
		Osler's Anemometer		On roof of Octagon Room.	On roof of Magnet House.	On roof of Photo-graphic Thermo-meter Shed.	Gauges partly sunk in the ground.		
		Self-registering Gauge.	Second Gauge.				In Mag-netic Pavilion enclosure.	In Observatory Grounds.	
Height above Ground.	...	50ft. 8in.	50ft. 8in.	38ft. 4in.	21ft. 6in.	10ft. 0in.	5in.	5in.	5in.
Height above Mean Sea Level.	...	205ft.	205ft.	193ft.	176ft.	165ft.	155ft.	155ft.	155ft.
		in.	in.	in.	in.	in.	in.	in.	in.
January	18	1·782	1·859	2·701	3·031	3·560	3·713	3·584	3·749
February.....	18	0·708	0·733	1·198	1·446	1·726	1·804	1·732	1·819
March	18	0·313	0·337	0·652	0·812	0·963	1·093	0·948	—
April.....	9	0·314	0·297	0·502	0·558	0·647	0·672	0·650	—
May.....	12	0·686	0·733	1·184	1·388	1·474	1·565	1·505	—
June.....	7	1·602	1·817	2·090	2·581	2·681	2·801	2·649	—
July.....	7	0·213	0·208	0·315	0·376	0·415	0·414	0·404	—
August	8	0·954	0·944	1·120	1·272	1·301	1·388	1·363	—
September	11	1·237	1·255	1·610	1·846	1·931	1·971	1·931	—
October	17	2·212	2·088	2·670	2·871	3·039	3·040	3·050	—
November	17	2·219	2·388	3·075	3·649	3·996	4·114	3·959	—
December	19	0·826	0·864	1·482	1·542	1·963	2·162	2·032	—
Yearly Sums. ...	161	13·066	13·523	18·659	21·372	23·696	24·737	23·807	—
No. of Gauge ...	...	1	2	3	4	5	6	7	8

The monthly record terminates at midnight on the last day of the month.

A rainy day is considered to be one on which 0·005 in., or more, is collected in gauge No. 6.

Of the ground gauges 6, 7, and 8, No. 6 is taken as *standard*, No. 7 is the old monthly gauge, and No. 8 is a check gauge added in 1881, the use of which was discontinued at the end of February. Gauges No. 7, and Nos. 3, 4 and 5, were replaced by copper gauges similar to No. 6 at the end of February and the end of October respectively.

THE STAFF OF OBSERVERS.

THE number of Rainfall Observers continues to increase steadily, and we are able to publish returns from 4267 rain gauges for 1906. And yet we are not happy. It seems absurd, we do not doubt, to many Observers who are not without interest in their work that we should lay so much stress on keeping up old records and starting new ones; but we venture to think that the semblance of absurdity would vanish if our objects in compiling this annual volume were fully known. It is our ambition, first, to be able to draw a trustworthy map on a fairly large scale of the total rainfall of every year, of every month, and of every very wet day, and, second, to study by means of these maps the relationships which exist between the distribution of the rainfall, the configuration of the land and the meteorological conditions of the atmosphere. In order to have confidence in the lines drawn on such maps we require to be sure that no Observer makes a serious mistake, which we cannot detect, and that no large area on the map is wholly without observations. It has never yet been found practicable to inspect all the rain gauges, nor would it be judicious to lay down any bureaucratic system of regulations, which might make a burden of what is now a pleasure to many; but it is quite easy *when the observing stations are very numerous* to check the results of one by comparison with those of several others entirely surrounding it, and so to discover whether on any particular wet day an Observer, with the best intentions, happened to mistake the number of glass-fulls of water deposited in the gauge. Every Observer makes mistakes sometimes, though when the mistakes are too slight to affect the year's total seriously we do not mention them even when they are detected. We remember very vividly how the late Dr. Buchan, a quarter of a century ago, impressed this fact upon us with practical illustrations from the records of the only Observer in whose infallible accuracy we had up to that time believed with the innocent certainty of youth and inexperience. A close network of stations is necessary also for the minute study of the distribution of rain in thunderstorms, during

which, in one part of a town we may find a rainfall of 3 inches, and in another part, a couple of miles away, perhaps only a few tenths of an inch, or none at all.

When complete and accurate monthly and annual maps have been prepared they will be available for the solution of many problems, both scientific and practical. The observations of one individual, or even of a great corporation, must remain comparatively useless while isolated, but in the case of rainfall observations union certainly makes strength. We may mention one set of circumstances in illustration. Without an accurate knowledge of the rainfall of a locality in which, let us say, great waterworks are about to be established, the proprietor of the land and the people living on the banks of the rivers are sure to make a bad bargain, or else the unfortunate consumers of the water are certain to have to pay an excessive and unnecessary sum for supplying their needs. No one can tell beforehand which party is to suffer, and an isolated rain gauge in such circumstances is of little avail unless the results are compared with all others in the vicinity. Observations at a considerable distance from the area in question may sometimes elucidate the distribution of rainfall in a surprising degree.

Of much greater importance, in our opinion, than the gain of a few thousand pounds on the sale of an estate, or the saving of a few pence in the pound on a water rate, is the acquisition of a sound basis of fact on which to found investigations into the succession of seasons of drought or flood, the frequency of the occurrence of disastrous storms, and on the ever-fascinating question of the existence of secular changes of climate. Comparatively few rainfall Observers work with such things in their minds; but if they are reasonably careful in making and noting their observations, the data they obtain can be turned to as good account if they come from a garden as if they come from an observatory; and each Observer can feel that his work is not lost or forgotten, but will remain of service to the country and to mankind after he is gone.

We published a gap-map last year showing the places where new Observers are most urgently needed, and we gave a list of towns and districts whence new records would be specially welcome. It is too soon yet to say what the result is, but we have heard of the establishment of a good many new records, the first year of which should be completed with 1907, and we print at least half-a-dozen in this volume, which were received in consequence of the appeal

then made. Unfortunately the worst gaps in Scotland and Ireland remain unfilled. If any reader knows of a rain gauge in use not quoted in our General Table it would be little trouble for him to let us know, and the result might be very useful.

The following list of losses and gains presents rather more features of interest than usual. The total number of records has increased by 171, or 4 per cent., as compared with 1905. This is the result of the loss of 229 records and the gain of 400. It is not always known whether a return which fails to come in represents a total loss or merely a temporary suspension; but 38 at least of the 229 lost records are only in abeyance for the year, while 58 of the 400 gains are old records returned. Thus, as compared with 1905, there has been a probably permanent loss of 193 stations, and a gain of 342 records which are certainly new to us. Compared with 1905, the number of rain returns from England has increased by 144 (164 losses and 308 gains), or nearly 4 per cent.; from Wales they have diminished by 5 (27 losses and 22 gains), or about 1 per cent.; from Scotland they have increased by 29 (26 losses and 55 gains), or 5 per cent., a gratifying circumstance which we hope is a sign of a real increase of interest in the subject in the old home of British rainfall study; and from Ireland there is an increase of 3 (12 losses and 15 gains), or just about 1 per cent., as to which we can only say that it is just better than standing still.

The list explains itself, but a few remarks on some of the more interesting incidents may not be out of place.

The lack of local patriotism in London is, we suppose, the reason why the metropolitan boroughs of Bermondsey, Bethnal Green, Hammersmith, Paddington and Southwark, have not a rain gauge amongst them, while several of the other boroughs are very inadequately supplied. The most interesting insertion is the record established by the King's command at Buckingham Palace; the height above ground is necessitated by the somewhat confined space available, but the close accordance of the observations with those of the Meteorological Office station in St. James's Park shows that the results are fully satisfactory.

In Surrey the most important accession is the gauge at Stoatley Hall, Hindhead, at the great elevation of 800 feet above sea level. The loss of three records in the neighbourhood of Red Hill and Reigate threatens to leave that important district rather poorly represented.

In Kent there are several serious losses, Ash (Pettings House), Dymchurch Rectory and Kearsney Abbey being the worst. The south-eastern corner of Kent has suffered greatly in recent years, and we feel it the more because there is an area of very high rainfall north and north-east of Dover, the extent and limits of which it would be most interesting to trace, for it lies in close proximity to the district of very low rainfall extending inland from Romney Marsh. We have, however, to welcome an extremely useful record at Paddock Wood, and several in the region of the North Downs.

In West Sussex we have succeeded in obtaining the record at Goodwood House, and there are two new stations near Midhurst which we are glad to have; but nothing has been received to improve matters in the country between Billingshurst and Pulborough, where there is not a single rain gauge within 5 miles of an area measuring 10 miles by 5.

There are no less than 18 new rain gauges in Hampshire, and only two—both in the Isle of Wight—have permanently stopped. It is interesting to find in our pages the name of Selborne, where Gilbert White kept a rainfall record nearly 130 years ago. At Ditcham Park, near Petersfield, Mr. Cave has added rainfall observing to his valuable investigations on the upper air by means of kites.

In Middlesex the loss of the very old record kept at Helenslea, Child's Hill, is irreparable, the changes in the character of that once secluded suburb making it practically certain that the grounds of the old house will come into the hands of the builder. A new record at the Hendon School is important, as the difficulty of the holidays which spoil so many promising school records seems to have been got over.

From Hertfordshire the old and much prized record at Kensworth disappears, but we are glad to say only to reappear in Bedfordshire, the county in which it is really situated. How it remained so long in the county to which it did not belong is a mystery.

Buckinghamshire has some important gains, but none in the west of the county where records are more wanted than in any other part of the Thames Basin. That desert region extends into Oxfordshire, where gauges at Thame or Brill would be exceedingly useful. The best of the new returns from Oxfordshire is Witney in the thinly gauged district of the west. Huntingdon has not improved we are sorry to say, but, on the other hand, it is no worse than last year; Bedfordshire has three new gauges and has lost none, while Cam-

bridge has fallen behind, no less than three rectories having ceased to send returns. We must refer in this place to the generous help in compiling the special monthly table of Cambridgeshire rainfall given by Lord Peckover of Wisbech, whose elevation to the peerage is a worthy tribute to a life spent in unostentatious public service.

Essex has always been unsatisfactory as regards the west of the county, and we particularly miss the record from Bocking Hall, Braintree; but, on the other hand, the gain of Fyfield is most useful, and we wish it might be supported by a record at Ongar, which we have long asked for in vain.

The distribution of stations in Suffolk and Norfolk has been considerably improved by the new stations from which returns have been received for the first time. We are indebted to the *East Anglian Times* for two of the most important accessions in Suffolk, and the *Norfolk Times* also has always taken a prominent part in maintaining public interest in the study of rainfall.

In Wiltshire the most important change is the appearance of Wylye Rectory, which greatly improves the distribution of stations, and fills a gap that has cost us much anxious thought in drawing the rainfall lines across that county.

We have lost three valued records in Dorset, and have gained only two; but in Devonshire we have to record a most gratifying improvement. The three records, which are all that have stopped in that large county, are quite compensated for by the accession of 16, some of them in places for which we had formerly no returns within many miles. The name of Coryton appears again to our great pleasure, and gauges which were specially asked for last year have been started at Holwill Manor, East Anstey and Molland.

In Cornwall the position has not been much altered by the year's changes, but Somerset and Gloucestershire have improved, though we greatly miss the late Rev. H. Heberden's record at Oddington. In Herefordshire the new record at Whitehouse, Vowchurch, fills a gap to which we called attention last year, and there is a prospect of further improvement in the future. Woolas Hall, Pershore, fills one of the gaps in Worcestershire; but we are sorry to see the losses in Warwickshire so far exceeding the gains.

A terrible gap is made in Lincolnshire by the cessation of the very long record at Pode Hole, near Spalding, and the north of Lincolnshire has also lost much and gained nothing. We hope that there may be a prospect of some improvement in that county in conse-

quence of the interest excited by the Royal Meteorological Society's exhibit at the Royal Agricultural Show at Lincoln in June, 1907.

Nottingham shows a satisfactory improvement, and we include records from some of the great seats in the Dukeries for the first time; but the most remarkable accession of rain returns that has appeared in our pages for many years is that in Derbyshire and the southern division of the West Riding of Yorkshire, brought about by the inclusion of the 51 gauges established by the Derwent Valley Water Board in connection with their great works for the supply of four large towns. Record stones have been placed at the dams of two large reservoirs being the inscription: "Glory to God in the Highest. In the years of our Lord 1902–19 this Derwent reservoir was built by the Derwent Valley Water Board for the use of the people of Derby, Leicester, Nottingham and Sheffield." Some of the new gauges are in extremely interesting positions, and will help towards the thorough understanding of the distribution of rainfall on the southern slopes of the Pennine Chain.

It says much for the steadiness of Rainfall Observers that not one of the 65 records in Cheshire published for 1905 fails to re-appear for 1906, although only one new return has been added to them. There are more changes in Lancashire, but mainly in the right direction, and one new record established by Col. Ainsworth on Smithills Moor is an important acquisition.

The Northern Division of the West Riding is improved by the removal of the old 8 inch Glaisher gauges on Dallow and Masham moors. Mr. Symons had condemned these gauges in 1899 on account of their having fallen out of repair, and 5 inch Snowdon gauges were set up beside them in 1900, but by an oversight the old gauges were not removed. The result has been to furnish a most interesting study of the effect on the catch of rain of the progressive deterioration of Glaisher pattern gauges, a subject that has been dealt with elsewhere.* Here we need only say that in every case in which the 8 inch and 5 inch gauges agreed the former were found on inspection to have been kept in good repair; where they differed the 8 inch gauges were found to have been out of order, and the discrepancy between the two was closely in accordance with the degree of delapidation. Amongst the insertions in the West Riding

* See paper read by Dr. H. R. Mill to the Royal Meteorological Society, on May 15th, 1907.

of Yorkshire special interest attaches to the gauges at Bolton Percy and Grassington, which are in places that were previously very poorly supplied. The East Riding has improved a very little, and the North Riding a good deal, but grievous blanks remain in both.

Northumberland and Cumberland show little change, but the accession of Warwicksland School, near Penton, on the Scottish border of the latter county, is important as it is on the margin of a very desert region of the rain gauge map. We welcome the return of Shap Vicarage in Westmorland.

The changes in Wales this year are not very remarkable. Tenby is an important accession in Pembrokeshire, and Abermeurig is a serious loss in Cardigan. In Brecon the Ebbw Vale Water Works have ceased to take records from the gauges on an abandoned portion of their scheme, and no answer to repeated requests could be obtained from Llandefaelog-fach Rectory. We are sorry to lose the record which is an old one. An interesting group of new gauges in Denbighshire gives information for the first time as to the very desolate region from which the new water supply for Birkenhead is to be obtained.

Amongst the islands we regret to have no improvement to note in the case of the Isle of Man where there has been no change. The individuality of that island is so marked and the size is so convenient for a complete rainfall survey that we wonder no patriotic Manxman has before now filled up the vacant places. Most of the existing gauges we receive by the kind help of Mr. A. W. Moore, C.V.O., but for whom the island would be poorly represented indeed. In the Channel Islands we include with great interest new gauges in Alderney, Sark and Herm, and although one has dropped out in Guernsey a new one appears in Jersey.

Scotland shows as great a proportional increase in the number of rainfall stations as England, indeed if one were curious as to a decimal point the proportion is somewhat better. The losses are not very numerous and only a few are really serious. The border counties, already far too sparsely tended, are the poorer by the absence of Wooplaw, and next year we fear they will be poorer still In Perthshire we particularly regret the loss of St. Fillans and the absence, we hope only for a time, of Rannoch Station; but the Isle of Skye is a cause of unrelieved lamentation. In the year 1906 we are able to give only three records for the whole island and two of these are from lighthouses. In 1866 there were 8 records, in

1876 there were 6, in 1886 there were 4, but in 1896 there were only 2 and that, perhaps, may suggest hope for the future. The study of the rainfall of Skye alone would be a fascinating subject, and we are not sure that in the valleys under the loftiest mountains there may not be found the wettest spot in Scotland. It is very unlikely that this volume will ever be carried "over the sea to Skye," but if haply these lines should meet the eye of anyone who has pride in the island we commend them to his attention. A dozen stations well-distributed would not be too many. In the east of the country the loss of the old record at Dornoch is the most to be regretted.

Fortunately this year Scotland has a brighter side, 55 new rainfall stations having appeared, and though only two of these have lighted upon the gaps in last year's map several of them are of great interest and utility. The neighbourhood of Kirkbean, in Kirkcudbrightshire, was one of the worst represented parts of the south-west of Scotland before the new record was received. The gauge at Cramilt Lodge, on Meggat Water, near where that stream enters St. Mary's Loch, will be of the greatest service in connecting the group of Talla gauges with those of the Tweed valley. Beil, near Prestonkirk, and Dalkeith Palace are also acquisitions of value, and the little group of the Clydebank Water Works gauges in the Kilpatrick Hills in Dumbartonshire forms a most interesting link between the Highlands and the Lowlands, and will help to determine the transition from the heavy precipitation on the western hills to the lighter rainfall of the lowland plain. The most interesting of all the gains in Scotland, however, is the group of gauges established by the Loch Leven Water Power Company along Glen Leven where the river Leven strings together a chain of lochs on the western slope of the desolate Moor of Rannoch. These gauges lie partly in Argyllshire and partly in Inverness in the very barest region of the West Highlands, across which it has hitherto been in its own way nearly as rash and adventurous to draw isohyetal lines on the map as it was for David Balfour to make his way across the moor itself in the pages of "Kidnapped."

Finally there is Mhaol. We are glad to have Mhaol, and we should be gladder if we knew exactly where it is. A record from Mr. McGregor reached us for 1905, without the name of any place and with the illegible postmark that so often adds to the interest of a search. For 1906 came the record, the total of which we print, from "Mhaol, Ross," and again there was no legible postmark, and the form was an old one, which, though supplied by British Rainfall,

was not provided with a space for stating the nearest church and railway station. There is no Mhaol in any gazetteer to which we have access, but several on the map of the Outer Hebrides, and at one of these we must, while awaiting information, assume that the readings were taken.

Ireland remains as of old distinguished for the steadiness of its Rainfall Observers; twenty of its counties have not lost a single record in the year, twenty have not gained a single record, and of these two series no less than sixteen are common to both, having neither lost nor gained an Observer. Some shifting of stations will be noticed, as we have taken special steps to decide in which of two counties separated by the river the gauges of the Shannon Navigation are really situated, and curiously enough in most of the cases we found that the former allocation had been wrong. It is not necessary to refer in detail to individual gains and losses. None of the most important records have disappeared, and none of the newcomers are situated in the areas where new gauges are most wanted. Several government officials in Ireland, and one or two Irish members of Parliament, have spoken of helping in establishing new stations, and we hope something will come of it: in any case the hope is pleasant; indeed, we have heard that a book was written once on the Pleasures of Hope.

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

Years.	England.	Wales.	Scotland.	Ireland.	Gross Total.	Increase over previous year.
1860...	163	5	—	—	168	—
1861...	334	9	109	20	472	—
1871...	1038	88	311	67	1504	—
1881..	1548	131	313	153	2145	—
1891...	2091	168	359	181	2799	23
1892...	2113	178	367	192	2850	51
1893...	2205	193	389	200	2987	137
1894...	2269	184	395	195	3043	56
1895...	2304	196	398	186	3084	41
1896...	2427	209	402	181	3219	135
1897...	2492	223	419	184	3318	99
1898...	2545	237	436	186	3404	86
1899...	2615	252	446	188	3501	97
1900...	2612	248	437	196	3493	—
1901...	2616	253	442	195	3506	13
1902...	2712	248	472	204	3636	130
1903...	2847	265	502	215	3829	193
1904...	2932	321	508	221	3982	153
1905...	3016	328	528	224	4096	114
1906...	3160	323	557	227	4267	171
Difference from 1905—						
Increase	144	—	29	3	171	—
Decrease	—		—	—	—	—

Rainfall Records, Losses and Gains.

COUNTY.	RECORDS TERMINATED, OR *Absent.*	NEW RECORDS, OR *Old Ones Re-appearing.*
London (72)	Paddington (Westbourne Grove) Islington (Hilldrop Road). Wandsworth, Wimbledon Com. (Richmond Ho.) Brixton (Acre Lane).	*Kensington* (*Grand Junction*). Westminster (Winchester St.) 2 g. ,, (Buckingham Pal.) Hampstead (Frognal). *City of London* (*Guildhall*). *2 ft. 6 in. gauge.* Woolwich (N. Woolwich Pumping Stn.) *Battersea* (*Water Works*).

West Surrey (75)	*Haslemere* (*Jesses*). M. Hascombe (Hall Place). *Bramley* (*Grafham Grange*). ,, (Cloverlea). *Guildford* (*Wherwell Road*). Camberley (Park Road). Bagshot (Hall Grove).	Hindhead (Stoatley Hall). Witley Manor. Tilford (Charleshill). Woking (Northwood). Camberley (Portersbery Hill). Weybridge (Station Road).
East Surrey (96)	Dorking (West Street). Red Hill (Hurstleigh). Reigate (Aldersyde). ,, (Nutwood). Oxshott. Morden (Steel Hawes). Wimbledon (The Windmill).	Warlingham (The Larches). Kenley (Valley Road). Croydon (Bramley Hill). ,, (Woburn Road). Surbiton (Tandridge House). Norwood (Auckland Road). Wimbledon (Kingston Road). Kew (Kew Gardens Road).
West Kent (106)	*Tenterden* (*Summerhill*). 8 *in. g.* Benenden (East End). 2nd g. Tunbridge Wells (Beulah Rd.) Sevenoaks (St. John's Hill). ,, (*Riverhead*). Ash (Pettings House). Bromley (Orchard Road). *Shortlands* (*The Gables*). *Sidcup* (*Station Road*).	Edenbridge (Markbeach). Paddock Wood (Moatlands). Tonbridge (Ingleside). Edenbridge (Boom Park). Sevenoaks (Dartford Road). ,, (Seal). ,, (Kemsing Pumping Station) *Halstead Rectory.* Downe (The Rookery). Farningham. Sidcup (Selborne Road). *Greenhithe.*
East Kent (50)	Dymchurch Rectory. Kearsney Abbey. Petham (Buckholt Farm). Deal (Sewage Works). *Tilmanstone* (*Danefield*). Sheldwich. Sheppey (Leysdown).	Sellindge (Penmain). Teynham (New Gardens). Faversham (Uplees Marshes). Broadstairs.
West Sussex (44)	Chichester (Forest Side Vic.) Stedham (Rotherhill).	Worthing (New Parade). *Chichester* (*Goodwood Gardens*). Midhurst (Fairford, Bapton). ,, (Oakhurst).
East Sussex (89)	*Brighton* (*Roedean School*). Lewes (Saxonbury). Heathfield (Summerlands). Crowborough (Beechcroft). Wadhurst (Kirkstone). Crowborough (Renby Grange). *Forest Row* (*Charlwood Farm*).	Falmer (Brighton W. W.) Hurstmonceux Place. Hurstpierpoint (Highfield). Horeham Grange. Uckfield (Agricultural College). Hayward's Heath (St. Wilfrid's Parsnge.) Ticehurst (Myskins).

Hampshire (122)	*Brading Vicarage.* Carisbrooke (Rainsgrove). ,, (Rowborough). *Southampton* (*Totton*).	Ventnor (St. Boniface Road). *Yarmouth Schools.* *Cowes* (*Roy. Yacht Squadron*). Lymington (The Salterns). Lymington. Hayling Island (Littlemead). Havant (Denville Lodge). Fordingbridge (Cuckoo Hill). Southampton(CadenhamGrnge.) ,, *Common Res.* Droxford (Uplands). Eastleigh (Fair Oak Park). Petersfield (Ditcham Park). West Liss (Kippences). Stockbridge (Ashley). Broughton (Boys' School). Broughton. Selborne (Coneycroft). Aldershot. Eversley Rectory.
Berkshire (52)	Shinfield (Clares Green). Wantage (Letcombe Regis).	Reading (The Cedars, London Road). *Yattenden Court.*
Middlesex (50)	Child's Hill (Helenslea). Pinner (Moss Cottage).	Hampton. Kew Bridge. Hendon (Central School).
Hertfordshire (67)	Watford (St. Alban's Road). Knebworth Manor House. *Buntingford* (*Hillside*).	*Watford* (*Frogmore*). St. Albans (Herts County Musm). Tring (Grove Lodge). Little Hadham (Hadham Hall). Royston (Earlshill House).
Buckinghamshire (34)	Beaconsfield (Gerrard's Cross). *2 gauges.* Amersham (Rumseys). Olney (Emberton Manor).	Burnham(East BurnhamLodge). Farnham Royal (The Chase). Stockgrove Park [Leighton Buzzard]. Winslow (Market Square). ,, (Norden House). Newport Pagnell (Lovat Bank).
Oxfordshire (48)	Caversham (Cane End House). Henley-on-Thames (Highmore School). Stanton St. John.	Henley-on-Thames (Peppard). Clanfield (The Schools). *Oxford* (*Magdalen Coll.*) *Roof g.* Witney. Woodstock (Wootton Rectory).
Northamptonshire (64)	Kettering (Queensberry Road). Naseby Reservoir. Oundle (Hemington Vicarage). ,, (The School). Stamford (Collyweston Road).	Northampton (Gold Street). Kettering (Warkton). Cranford (Woodford House).

Huntingdonshire (13)	—	—
Bedfordshire (27)	—	Sandy (Beeston Grange). Bedford (The Park) R. Great Barford Vicarage.
Cambridgeshire (46)	Longstowe Rectory. Trumpington (Gilmerton). Lolworth Rectory. Willingham Rectory. *Stretham Ferry* (*Elford Farm*).	Cambridge (Herschel House).
Essex (83)	East Ham. Leyton (Lea Bridge Road). *Havering-atte-Bower.* Buckhurst Hill House. *Clacton-on-Sea* (*Jay Wick*). Witham (Little Braxted Hall). Braintree (Bocking Place). Ardleigh (Good Hall). Manningtree (Lawford Rectory). ,, (,,).	*Southend* (*Corporation Obser.*) Fyfield (Truant School). *Abbess Roding Rectory.* Clacton-on-Sea (Clacton Coll.) Lawford (Dale Hall).
Suffolk (50)	Erwarton Hall [Harwich]. Framlingham College. *Bacton.* Darsham (Sibton).	*Polstead Rectory.* Charsfield Hall. Debenham Hall.
Norfolk (61)	Thetford (King's House). East Dereham.	Pulham St. Mary Caston *Denver.* Norwich (Eaton). Coltishall. Great Massingham. Gayton Pumping Station. Cawston. Cromer (The Warren). Burnham Overy Staithe.
Wiltshire (60)	Winterslow (Roche Court). 2 g. Mere (Dews House).	Wylye Rectory. Bulford (Manor House). *Trowbridge (Wingfield).* Pewsey (Wilcot Rectory). Chippenham (Christian Malford). *Malmesbury* (*Charlton Cottage*).
Dorsetshire (49)	MaidenNewton(CattistockLodge) Wimborne (Westfield). Chetnole. Verwood Manor.	Chickerell Rectory. Charminster (Brooklands).

South Devon (116)	Newton Abbot (Tuplins). Teignmouth (Coombe Bank). *Lympstone (Walton).*	Kingsbridge (Collapit Creek). Ashburton (Dolbear). Bickington Vicarage. Dartmoor (N. Hessary Tor No. 2). Dawlish (Holcombe). ,, (Blyth). Marystowe Vicarage. Coryton Rectory. *East Budleigh (Syon House).* Moretonhampstead (Bullaton). Broad Clyst (Brockhill). Beaworthy (Halwill Manor). Halberton.
North Devon (42)	Stoke Rivers.	East Anstey. Molland. West Buckland (County School). Ilfracombe.
Cornwall (61)	Helston (Tenderah). Penzance (Penlee). Truro (Agar Villa). St. Austell (Bunney Mine). Menheniot (Coldrenick House).	Bosahan. Looe (Railway Station). Newquay (Tressillian House). Withiel Rectory. North Tamerton (Ogbeare Hall). Morwenstow Vicarage.
South Somerset (46)	Taunton (Staplegrove). *Langport (Huish Episcopi).*	Stoke-under-Ham. Sutton Montis. *Milverton (The Mount, Halse).* North Cadbury (Woolston). Wincanton (Holbrook). Somerton (Kingweston). *Williton (Aller Farm).* Quantockshead (St. Audries).
North Somerset (70)	Wells (Somerset & Bath Asylum). *Axbridge (Loxton Rectory).*	Bruton (Sunny Hill). Edington. Shepton Mallet (Sewage Farm). Banwell (Eversley). Bath. ,, (Somerset Place). Wraxall (Boys' School).
West Gloucestershire (70)	Dursley. *Painswick (Cotswold Sanatorm).* Gloucester (Gloucester Park). Tewkesbury (Beckford).	Almondsbury (Over Court, field). Sedbury Park [Chepstow]. Gloucester (Denmark Road). *Tewkesbury (Waterworks).* Wormington Grange (R).
East Gloucestershire (20)	Lechlade. Stow-on-the-Wold (Oddington).	Mickleton (Greyrich House).

Herefordshire (41)	Hereford (Broomy Hill).	Vowchurch (Whitehouse). Hereford (Richmond Place). Sarnesfield Rectory. Pencombe Rectory. Whitbourne Court.
Shropshire (41)	*Pontesbury* (*Somerville*). Wem (The Rectory).	Culmington Manor. Westbury (Winsley Hall).
Staffordshire (45)	Burton (Trent Cottage). Salt Vicarage.	Wichnor. Mayfield House [Ashbourne] Snow g. " " " Weekly g.
Worcestershire (47)	Upton-on-Severn(Earl'sCroome)	Pershore (Woollas Hall). Kempsey (Draycott House). Worcester (Bromwich House). *Bromsgrove* (*Barnt Green, Upwood*). Dudley (Borough Cemetery).
Warwickshire (32)	Milverton (Latmos). Coleshill (Maxstoke). Atherstone.	Shipston (Honington).
Leicestershire (32)	—	East Langton Grange. Old Humberstone. *Withcote Hall.* Barkby Hall.
Rutland (6)	Stocken Hall.	Whitwell Rectory.
South Lincolnshire (26)	Spalding (Pode Hole).	*Grantham* (*Denton Manor*). Boston. *Lincoln* (*Boultham*).
North Lincolnshire (40)	Horncastle (Bucknall). Lincoln (Brayford Wharf). Riby.	—
Nottinghamshire (59)	Nottingham (Huskinson Street).	Nottingham (Strelley Hall). Bagthorpe (Isolation Hospital). Nottingham (Basford Hall). Bulcote (Corporation Farm). Bulwell (Watnall Reservoir). Daybrook (Ramsdale Hill Res.) Ossington. Ollerton (Edwinstowe Hall). Clumber Gardens.

Derbyshire (112)	Breadsall Priory. *Codnor* (*Cross Hill*). Whatstandwell (Pumping Stn.)	Duffield (Kirkstyles). Chesterfield (Sewage Works). Eyam (The Rectory). Grindleford (Grouse Inn). Hathersage. Castleton. Hope School. Bamford. Edale (Dale Head). ,, (Upper Booth). Bamford (Yorkshire Bridge Weir). Ashopton (Win Hill). ,, (Cockbridge Farm). ,, (Wooler Knoll). ,, Inn. ,, (Grimbo Carr). ,, (Cutthroat Bridge). ,, (Moscar Flat). Derwent Bridge End. ,, Dam. Ashopton (Haglee). Blackdean Moor (Crookstone). Woodland Dale (Woodlands, S.) ,, ,, (,, N.) The Peak (Fairbrook). ,, ,, (Nungrain). Hayfield (Ashop Head). Woodlands Dale (Rowles). Derwent Dale (Walker House). Alport Dale (Alport Castles). Featherbed Moss (Redgate Clough). Derwent Dale (Birchinlee). Birchinlee Moor (Cote Ridge). Lady Clough Moor. Coldharbour Moor (Summit). Derwent Dale (Howden Dam). ,, ,, (Banktop Hey). ,, ,, (Ridge Farm). Alport Moor (Gletheringclough). West End Moor (Blacklow Cote). ,, ,, ,, Alport Moor. Derwent Dale (Black Dyke). ,, ,, (Cranberry Clough). ,, ,, (Mosley Bank). Ridgewalk Moor. Bleaklow Stones. Derwent Dale (Roundhill.)
Cheshire (67)	—	Tarporley (Summer Hill). *Chester* (*The Nurseries*).

South Lancashire (105)	Liverpool (Hope Street). Manchester (Withington) No. 1 Rochdale (Facit). Haslingden Vicarage.	Aigburth (Holmfield) new g. West Derby (Croxteth Hall). Withington (Chorlton-c-Hardy Sew. Wk.) ,, ,, ,, Ashton-under-Lyne (Hartshead). Oldham. Bolton (Smithills Moor). Bacup (Britannia).
Central Lancashire (75)	—	Accrington (St. James's Vicrge). Clitheroe (Low Moor).
North Lancashire (63)	Colton House. 2 gauges. Coniston (Water Park).	Poulton-le-Fylde (Singleton Pk.) Hawkshead (Esthwaite Mount).
Yorkshire.	Tickhill.	Sheffield (Dale Dyke Reservoir).
West Riding, Southern (64)	Hoyland (King Street). Goole (Adlingfleet).	Derwent Dale (Low Seat). ,, ,, (Howden Ho). ,, ,, (Row Top). ,, ,, (Sandy Lee). ,, ,, (Crow Stones). ,, ,, (Featherbed Moss) Peniston (Grammar School). Ackworth (Hillthorpe).
West Riding, Central (124)	Mytholmroyd (Ewood Hall).	Leeds (Westwood Resr.) new g. ,, (*Elmet Hall, Roundhay*). *Shipley* (*West Point*).
West Riding, Northern (105)	Knaresborough (Farnham). Grimwith (Trunla Hill). Dallow Moor (High Skeldon) *8 in g.* ,, ,, (Harper Hill) *8 in. g.* Nidderdale (East Gill Head). ,, (Rain Stang). Kirkby Malzeard (Drover's Inn) *8 in g.* ,, ,, (Bag with Brae) *8 in g.* Masham Moor (Somerside) *8 in. g.* ,, ,, (High Sour Mire) *8 in g.* ,, ,, (Leighton) *8 in. g.* ,, ,, (Low Houses) *8 in g.* Sedbergh (Brig Flatts).	Aberford (Lotherton Hall). Bolton Percy (Appleton House). Ilkley (Glen Rosa). *York* (*Burton Croft*). *M.* *Skipton* (*Counter Hill*). Spofforth (Sewage Works). Harrogate (Bilton). Birstwith (The Moss). Grassington (Chapel Ho. Kilnsey). High Bentham. *Masham Moor* (*Benjy Guide*).
East Riding (23)	Skipwith.	Heslington [York]. Welham (Malton).
North Riding (58)	Wigganthorpe. Malton (Longster's Garden). Gilling (Grimston Manor). Cowton (Pepper Arden).	Warthill (Brockfield Hall). *Alne.* Thornton-le-dale. *Bedale* (*Thorpe Perrow*). Thirsk (Newbuilding). Cowesly Hall. *Fylingdales* (*The Vicarage*). Middlesbrough (Linthorpe). ,, (Skelton Castle) *Mickleton.*

Durham (42)	Eastgate (All Saints' Vicarage). Seaham Vicarage.	Burnopfield (Leazes Hall).
Northumberland (53)	Scots Gap (Rothley Crag).	*Rothbury* (*Brinkburn Priory*). Ilderton (Lilburn Cottage) newg. Wooler (Fenton).
Cumberland (70)	Cleator (The Flosh). Borrowdale Vic. (Rosthwaite). Keswick (Eskin Place).	Borrowdaile (The Moraine). Bassenthwaite (Higham). Penton (Warwicksland School).
Westmorland (44)	Kendal (Ellergreen).	Milnthorpe (Crosthwaite Vic.) Windermere. Ambleside. *Shap Vicarage.*

MONMOUTH, WALES AND THE ISLANDS

Monmouth (26).	Pontypool (Cwm-Afon Res.) Monmouth (School House).	*Llantilio Crossenny* (*Brynderi*).
Glamorgan (53)	*Pontypridd* (*The Reservoir*). Swansea (Le Mayals).	Mumbles. *Caerphilly* (*The Court House*).
Carmarthen (10)	Llanelly (New Road).	Llandovery.
Pembroke (11)	Haverfordwest (Portfield).	Tenby (High Street). Saundersfoot (Hean Castle). Treffgarne Hall.
Cardigan (8)	Lampeter (Abermeurig).	—
Brecon (61)	Ebbw Vale W.W. (Blaen-y-Cwm) No. 7 ,, ,, ,, (,, ,,) No. 6 ,, ,, ,, (,, ,,) No. 5 Bwlch (Treberfydd). Brecon (Llandefaelog-fach). Brynwern Hall [Newbridge].	—
Radnor (16)	Rhayader (Nantgwillt) 2 gauges	—
Montgomery (23)	Welshpool (Pool Quay Vicage). *Meifod* (*Coed-y-maen*).	—
Flint (11)	—	St. Asaph (St. Beuno's College).
Denbigh (30)	Llangedwyn. Colwyn Bay (Bryn Euryn).	Glynceiriog. Wrexham (Gwersyllt). Cerrig-y-Druidion (Hafod-llan-isaf). Pentre Voelas (Nant Heilyn). Cerrig-y-Druidion (Hafod-yr-Onen). Denbigh (Gallt-faenan).

Merioneth (9)	Dolgelly (Dolserau Hall). Llanbedr (Minafon).	Aberdovey.
Carnarvon (34)	Nantlle (Cwm-silyn Lakes). Dolwyddelan(Tunnel Mth)No.20 ,, (UpperNhadog)No.2 Conway (Glan Morfa).	—
Anglesea (7)	Penmynydd Vicarage.	*Llanddwyn Island.* Llangwllog (Trescawen). Llantrisaint Rectory.
Isle of Man (10)	—	—
Isles of Scilly (2)	—	—
Jersey (3)	—	St. Aubins (Belle Vue).
Guernsey (6)	St. Sampson (Richmond).	—
Alderney (1)	—	Le Huret.
Sark (1)	—	Vallée du Creux.
Herm (1)	—	Harbour.

SCOTLAND.

Wigton (9)	—	—
Kirkcudbright (19)	New Galloway (Ken Bridge).	Kirkbean (Arbigland). Jardington [Dumfries]. Carsphairn (Knockgray).
Dumfries (16)	—	—
Roxburgh (14)	Hawick. Wooplaw [Galashiels.]	Smailholm (Sandyknowe). Chapel-on-Leader [Earlston].
Selkirk (5)	*Selkirk* (*Philiphaugh Gardens*).	Meggat Water (Cramilt Lodge). Galashiels (Clovenfords).
Peebles (18)	—	VictoriaLodge(EdinburghWW)
Berwick (8)	Whitsome Hill.	—
Haddington (10)	—	Prestonkirk (Beil). *Bass Rock.*
Midlothian (29)	West Calder (Addiewell).	Dalkeith Gardens. Edinburgh (University) 2 g. Cramond Bridge (Craigiehall).

Linlithgow (6)	Uphall. Carribber Reservoir. *Linlithgow Academy* 2nd gauge. ,, (Rockville).	—
Lanark (25)	—	Lamington (Cowgill Reservoir). Biggar (Shieldhill). *Motherwell* (*Dalzell Gardens*). *Glasgow* (*Bellahouston Park*).
Ayr (26)	Saltcoats.	Barrhill (Kildonan). Kilmarnock (Agricultural Coll.)
Renfrew (34)	—	—
Dumbarton (12)	—	Duntocher (Cochno Filters). ,, (Greenside Reservoir) ,, (Loch Cochno. ,, (Jaw Reservoir). Cardross (Darleith). Roseneath (Achnashie).
Stirling (30)	*Falkirk Hospital.*	Strathblane (The Manse). ,, (*Craigbarnet*). Falkirk (Westbank). ,, (Ardenlea).
Bute (4)	—	—
Argyll, Mainland (33)	—	*Kintyre, Mull of.* Glen Leven (Blackwater), No. 4. ,, ,, (Dam), No. 2. ,, ,, (Kinlochleven), No. 1.
Argyll, Insular (18)	*Tiree* (*Hylipol Manse*).	—
Clackmannan (4)	—	—
Kinross (4)	—	Kinross House.
Fife (20)	—	Dunfermline. Colinsburgh Manse. ,, (Gilston). *Cupar* (*Fife & Kinross Asylum*). *Kilmany* (*Mountquhanie House*).
Perth (33)	*Balquhidder* (*Blaircreich*). St. Fillans (Portmore). *Rannoch Station.*	*Dunblane* (*Kippenross*). *Glenfarg* (*U. F. Manse*). Abernethy (Ayton House).
Forfar (34)	—	*Forfar* (*Little Causeway*).
Kincardine (12)	Todhead.	

Aberdeen (18)	Buchanness.	—
Banff (7)	—	—
Elgin or Moray (7)	—	Forres (Balnaferry). *Covesea Skerries.*
Nairn (5)	Nairn (Delnies).	—
West Inverness (19)	*Fort William* (*Ardtraigh*). Mucomir. Skye (Strathaird). ,, (Drynoch, Loch Harport). ,, (Portree House).	Fort William (Atholl Bank).
East Inverness (13)	—	Glen Leven (Chiaron House). Spean Bridge (Spean Lodge). Loch Lochy (Invergloy).
West Ross and Cromarty (16)	—	Glencarron (Glenuaig). Mhaol.
East Ross and Cromarty (12)	—	*Contin* (*Kinnahaird*). Achterneed (Glenskiach). ,, (Horsehill). *Tarbatness.*
Sutherland (7)	Dornoch.	—
Caithness (7)	*Stroma.*	—
Orkney (10)	*Pomona* (*Kirkwall*).	—
Shetland (10)	—	*Fair Isle, S.*

IRELAND.

Cork (14)	—	Dunmanway (Carbery). R. Cork (Fernhurst Avenue).
Kerry (9)	Brandon Bay (Fermoyle).	—
Waterford (10)	*Lismore* (*Mocollop Castle*). Portlaw (Milfort).	Waterford.
Tipperary (8)	—	—
Limerick (4)	Limerick (Victoria Terrace).	*Adare Manor.*
Clare (10)	Ennis (Roslevan).	—

Wexford (10)	—	—
Kilkenny (6)	—	—
Wicklow (11)	—	Rathnew (Clonmannon). Newton Mt. Kennedy (Seizenpark)
Carlow (3)	—	—
Queens Co. (4)	—	Sunnyside [Carlow].
Kings Co. (3)	*Birr Castle. 2nd g.* Banagher.	—
Kildare (5)	—	Clongowes Wood College.
Dublin (21)	Balbriggan (Ardgillan) No. 2.	Killiney (Palermo). Kingstown (Harbour Office).
Meath (6)	Oldcastle (Killeagh Rectory).	Dunboyne (Stirling, Clonee).
Westmeath (6)	—	Rathowen (Cromlyn).
Louth (5)	—	—
Longford (3)	—	—
Galway (10)	—	—
Roscommon (1)	—	—
Mayo (9)	—	—
Sligo (4)	Sligo (Ardmore).	—
Leitrim (3)	—	—
Cavan (4)	Cavan (Water Works).	—
Fermanagh (2)	—	—
Monaghan (2)	—	—
Armagh (5)	—	—
Down (10)	—	—
Antrim (17)	—	—
Londonderry (6)	—	Londonderry (Dunruadh).
Tyrone (3)	—	—
Donegal (12)	Rathmullan	*Killybegs* (*White House*). Fanad (Tamney Rectory).

OBITUARY.

THE list of lost helpers which we have to publish on this occasion is the longest that has ever appeared in *British Rainfall.* Long as it is we fear that it does not fully represent the gaps in the ranks of Observers, many of which are only discovered when the next year's circular is returned with the laconic endorsement of the Post Office. It is inevitable that as the total number of Observers increases by about 100 every year, the number of deaths should increase by one or two. The rate of mortality is not high considering the great age of many of the Observers, and compared with the mortality of 65, or 31 per 1000 in 1891, which Mr. Symons characterised as his "worst year," the 89 names recorded below represent a death-rate of only 22 per 1000 Observers at work.

Although we have to recognise the sad necessity of losing an increasing number of old supporters every year, we are not often called upon to see so many of the oldest and most faithful friends of the Rainfall Organization pass away as on the present occasion. The loss of the old records has been referred to in the foregoing section, the loss of financial help has been touched upon in the preliminary Report; but the loss of the old friends themselves claims a special word. It would be a pleasure to place on record here a brief biography of every Observer named in the following Obituary, but the data are rarely available, and we must confine ourselves to such particulars as can be gleaned from the ordinary sources of information.

One of the small band of contributors to the first issue of *British Rainfall* in 1861 is included, but there are several who commenced their observations in 1862 or 1863.

The list contains two nonagenarians, and the following twelve amongst those whose ages are known were 80 years old or upwards; three other Observers died in their eightieth year.

Mrs. George Clive	92 years.
Dr. Robert Barnes	90 ,,
Rev. W. R. M. Waugh	88 ,,
Sir Brook Kay, Bart.	86 ,,
Rev. Prebendary Gowring	85 ,,
Rev. Canon Venables	85 ,,
Col. D. Ainsworth	84 ,,
G. J. Newbery	82 ,,
Rev. C. E. Plater	82 ,,
W. Evans	82 ,,
Dr. W. M. Burman	81 ,,
Rev. R. F. Follett	80 ,,

We have been able to ascertain the ages of 45 out of the 89 Observers in the list, and the mean age of these was 72. The list contains the names of 14 clergymen, of 8 officers of the Navy or Army, and of 9 ladies.

Many of the late Observers had kept records for long periods, and it has been usual to go through the accumulated volumes in which the records are registered and extract the exact duration of the observations at each place of observation. Latterly this has become a very burdensome task, involving nearly a week's steady work, and this year with the extended list before us we estimate that it would involve a fortnight's delay in publishing the volume to complete the list. We do not feel justified in taking the responsibility of this delay for a purpose that does not affect the accuracy or the utility of the rainfall data. Without guaranteeing the completeness of the list of honour we can, however, name the following whose records certainly extended over 30 years or more :—

Records of Thirty Years and upwards.

NAME.	LAST PLACE OF OBSERVATION.	
*Mr. Ralph Assheton	Downham Hall, Clitheroe	52 years.
Dr. W. M. Burman	Grange-over-Sands	48 ,,
*Mr. W. Arkell	Moreton-in-Marsh	41 ,,
Mr. L. W. Reynolds	Thelwall, Cheshire	41 ,,
Rev. Preb. Gowring	Uffculme, Devon	35 ,,
*Mr. George Croucher	Ochtertyre, Perthshire	33 ,,
*Mr. A. J. Woodhouse	Child's Hill, N.W.	32 ,,
*Rev. J. G. Hale	Therfield, Herts	30 ,,
*Sir Brook Kay	Cheltenham	30 ,,

MR. RALPH ASSHETON, of Downham Hall, Clitheroe, born on 20th December, 1830, was educated at Eton and Trinity College, Cambridge, where he was Junior Optime in the Mathematical Tripos. He was a Justice of the Peace since 1854, a Captain at one time in

* Continuous record in one place.

the 1st Royal Lancashire Militia, and served his country also as Member of Parliament for Clitheroe from 1868 to 1880. He was a generous supporter of the British Rainfall Organization almost from the first, and his record extended for the very exceptional period of 52 years in one place. It is merely by an accident that Mr. Assheton's returns do not appear in the first issue of *British Rainfall* as he commenced his observations in 1855.

THE HON. JOHN CHARLES BEST was born in 1842 and was a brother of the fourth and fifth Lords Wynford, all three having been interested for many years in rainfall observations. He was a retired Captain of the Royal Navy, had served as High Sheriff of Denbighshire, and kept his rainfall record at Plas-yn-Vivod, Llangollen.

MR. J. H. W. BIGGS, of Liverpool, was one of our most ardent helpers, although his name does not appear in our pages. He was particularly interested in observations of rainfall and sunshine in the Lake District where he resided for part of every year, and he believed that the high rainfall of that beautiful locality occurred mainly in winter or at night and was not inconsistent with a large proportion of summer sunshine. Scarcely a year passed without Mr. Biggs expressing the opinion that the work of the Rainfall Organization should be recognized and subsidized by Government.

MISS J. E. A. BROWN, of Further Barton, Cirencester, carried on a very important rainfall record for several years, the interest of which was considerably enhanced by observations of the level of water in a deep disused well in the kitchen of her house. This record has been worked up by Dr. C. P. Hooker, of Cirencester, whose keen interest in the subject encouraged Miss Brown to continue the observations which were started by her father as long ago as 1844, and had been kept up by her sister, Miss Elizabeth Brown. Miss Brown was more interested in art and literature than in science, and she was known as a writer in prose and verse, appealing to a small circle of cultured readers.

Dr. ALEXANDER BUCHAN, F.R.S., was born in 1829, and was a graduate of the University of Edinburgh and an honorary LL.D. of Glasgow. He was appointed Meteorological Secretary of the Scottish Meteorological Society in 1860 and remained in that position for forty-seven years. His name has appeared in every issue of *British Rainfall* from the earliest volume for 1860-61 down to 1905. While he devoted attention to all branches of meteorology, Dr. Buchan wrote

largely on rainfall and was one of the first to construct rainfall maps of the British Isles. When the Symons Memorial Gold Medal was established by the Royal Meteorological Society in 1901, Dr. Buchan was chosen as the first recipient. He paid many visits to 62 Camden Square and we owe much to his counsel and example. A full biographical notice will be found in *Symons's Meteorological Magazine* for July, 1907.

DR. W. M. BURMAN kept up rainfall observations for 48 years, first at Wath-upon-Dearne, Yorkshire, where the record is being continued by his son Dr. F. J. Burman, and after retiring from professional work at Grange-over-Sands. He was all his life keenly interested in the study of the weather.

MRS. GEORGE CLIVE, of Perrystone Court, Hereford, was a lady of remarkable individuality and energy. On the death of her husband, Mr. George Clive, M.P., in 1880, she undertook the management of the estates and continued to look after them to the very end, though she reached the remarkable age of 92. She had the unusual distinction before her death of seeing her nephew Lord Grey Viceroy of Canada, and her niece Lady Minto the wife of the Viceroy of India.

MR. C. JORDAN, I.S.O., Superintendent of Royal Parks, worked his way up until he had charge of Hyde Park, Kensington Gardens, St. James's Park and Buckingham Palace Gardens, and he was always careful to see that the rainfall records under his charge were properly kept. He received the Imperial Service Order on the occasion of the official King's Birthday, 1907, when he was already suffering from his fatal illness.

SIR BROOK KAY, Bart., born in 1820, saw service in the Indian Army fifteen years before the Mutiny. He took an active part in political and philanthropic work in his own neighbourhood. At his residence, at Battledown, near Cheltenham, he devoted himself largely to horticulture, a pursuit which has drawn more adherents to the observation of rainfall than perhaps any other.

ADMIRAL J. P. MACLEAR was a son of Sir T. Maclear, Astronomer Royal at the Cape of Good Hope, where he was born in 1838. Joining the Royal Navy he served as a midshipman both in the Baltic and the Black Sea, during the Crimean war, and as a lieutenant during the China war of 1860-62, and during the Abyssinian

campaign of 1866, Subsequently he performed valuable services on surveying ships, and as commander he was on board H.M.S. *Challenger* during her famous scientific voyage of circumnavigation in 1872-76. As captain he was in command of the *Alert* and *Flying Fish*, and on retiring with the rank of Admiral, in 1891, he devoted himself with great interest to the study of meteorology. He had joined the Royal Meteorological Society in 1881, and served on its Council. Admiral Maclear married a daughter of the late Sir John Herschel, so that he was doubly allied with famous exponents of observational science. Admiral Maclear died very suddenly at Niagara Falls, on July 17th, 1907, while on a visit to America. He was a frequent correspondent in *Symons's Meteorological Magazine*, and in his death we mourn the loss of a very faithful friend.

MR. G. PAUL, Borough Meteorologist of Harrogate, was an example of the best type of enthusiastic and hard-working observer. He was proud of the climate of his town, and most anxious to spread a knowledge of meteorology amongst his fellow-citizens. The monthly reports on the climate of Harrogate which he prepared were amongst the fullest and most careful that we know.

MR. J. M. PHILLPOTT.—See Report, p. 7.

THE HON. MARK ROLLE, a son of the 19th Baron Clinton, was born in 1835, and succeeded to the great estates of his uncle, Lord Rolle (whose name he assumed), in Devonshire, where he became extremely popular with all classes. He gave generous support to all movements of public value, and subscribed a large sum to insure the lives of the Devonshire yeomen who went out to the war in South Africa.

LIEUT.-GENERAL JOHN SPROT was born in 1830 and entered the army in 1848. He was appointed on the Public Works Department in India in 1856 and served throughout the Mutiny with distinction. Later he commanded the 91st Highlanders and filled various high military positions. He retired in 1887, and in 1893 he started the interesting series of rainfall and meteorological observations at Lilliesleaf, Riddell, Roxburghshire, which he kept up to the end. His remarks on the weather will be much missed from the Observers' Notes in these volumes. One of General Sprot's most interesting meteorological experiments was made with electric-recording anemometers fixed at various heights on a great steel flagstaff

130 feet high, which he had erected in the grounds of Lilliesleaf. We frequently had the pleasure of hearing from him on meteorological matters, and our readers can judge of the racy style of his communications from the illustrated account of the flagstaff in *Symons's Meteorological Magazine*, **39** (1904), p. 204. We learn with great regret that the instruments have been dispersed and that no more returns from them will be available.

THE REV. CANON GEORGE VENABLES was born in 1821, studied at Oxford, and became Vicar of St. Paul, Chatham, in 1854, where he remained four years. He was successively Vicar of Friezland, Yorks, 1858-69; St. Matthew, Leicester, 1869-74, and of Great Yarmouth, 1874-86. Since 1888 he had been Rector of Burgh Castle, near Yarmouth, and he was an Honorary Canon of Norwich from 1881. Canon Venables was one of the most keenly interested Observers we have ever had the pleasure of meeting, though his rainfall records are not continuous. His daughter, Mrs. Sanderson, herself a rainfall observer and the mother of a rainfall observer, writes as follows:—"I do not think you will ever have a more interested meteorological observer than my father, for he was one of those people who used his eyes, especially for Nature and her ways. He had a rain gauge as early as 1860, I think, when he lived at Friezland, in Yorkshire, and when he was trying to show people the advantage and interest of keeping one with a record, he would tell with pride how *his* rain gauge and its record on a certain day of June (I forget the year but it was in the early sixties) had been the means of deciding an important law case. . . . It always pleased him very much to think it had been of *practical* use. Soon after he came to Burgh Castle, finding that there were most beautiful sunsets over the Norfolk marshes which could not be seen from the Rectory, he cut down trees and bushes so that as he sat at his library desk he could see those gorgeous effects in the distance and reflected in the river surrounded by a beautiful frame of trees. So at the eventide of his life he would frequently call us to see 'the sun's declining rays at eventide descend.'"

Observers Deceased to July 31*st*, 1907.

Small capitals designate Observers with 30 years' records.

*ASSHETON, RALPH	Downham Hall, Clitheroe.
Ainsworth, Col. D.	Backbarrow, Lancashire.
Ainsworth, D.	The Flosh, Cleator, Cumberland.
Aitken, Robert	Colmonell, Ayrshire.
Allcard, Miss F. E.	Wimblehurst, Horsham.
ARKELL, W.	Longborough, Moreton-in-Marsh.
Arkwright, Miss	Grange-over-Sands, Lancashire.
Barber, J. L. P.	Burton-on-Trent.
Barnes, Dr. R.	Bernersmede, Eastbourne.
Barrett, C.	Truro.
*Best, Capt. Hon. J. C., R.N.	Plas-yn-Vivod, Llangollen.
*Biggs, J. H. W.	Storrs Park, Windermere.
Blair, J. E.	Drumpark Mains, Dumfries.
Bosworth, D.	Bedworth Cemetery, Nuneaton.
Brown, F. F.	Eastgate Row, Chester.
*Brown, Miss J. E. A.	Further Barton, Cirencester.
Browne-Clayton, W.	Browne's Hill, Carlow.
*†BUCHAN, DR. A., F.R.S.	Edinburgh.
*BURMAN, DR. W. M.	Grange-over-Sands, Lancashire.
Chester, W.	The Gardens, Chatsworth.
Chichester, Lt.-Col. Gerard	Bonehill House, Tamworth.
*Clive, Mrs. George	Perrystone Court, Hereford.
Cochrane, Vernon	Glen Lodge, Sligo.
Cooper, G. H.	East Dereham, Norfolk.
Crawhall, George	Burton Croft, York.
CROUCHER, GEORGE	Ochtertyre, Crieff, Perthshire.
Daglish, J.	Rothley Crag, Cambo, Northumberland.
Durnford, C.	Longparish, Whitchurch.
Edwards, Mrs.	Dolserau Hall, Dolgelly.
Evans, Rev. J. J.	Cantref Rectory, Brecon.
Evans, W.	The Spring, Kenilworth.
Follett, Rev. R. F.	Winscombe Court, Somerset.
Fry, J. F.	Upton, Didcot, Berks.
Fryer, W. R.	Verwood Manor, Salisbury.
Gibbs, A.	Tyntesfield, Flax Bourton, Bristol.
GOWRING, REV. PREBENDARY	Uffculme, Devon.
Grant, Rev. Donald	Dornoch, Sutherlandshire.
Gregory, Thomas	Eyam, Sheffield.
Guillebaud, Rev. E. W.	Yatesbury Rectory, Calne, Wilts.
Haig, G. A.	Pen Ithon, Newtown, Radnor.
HALE, REV. J. G.	Therfield Rectory, Royston, Herts.
Hale, Major-General Robert	Alderley, Wotton-under-Edge, Glos.
Hamond, Washington	Pensthorpe, Fakenham, Norfolk.

* See Biographical Note *ante*. † Name appeared first in *British Rainfall, 1860-61*.

Observers Deceased to July 31st, 1907—(continued).

Hare, Theodore J.	Lyne Grove, Virginia Water, Surrey.
Haslam, A. Victor	Breadsall Priory, Derby.
Harvey, Rev. Canon G. T.	Navenby Rectory, Lincoln.
Hillman, Aubrey	Saxonbury, Lewes, Sussex.
Hodson, G., C.E.	Loughborough.
Hotchkis, Major	Crookston, Paisley.
Hurt, Albert F.	Alderwasley, Matlock Bath.
Hussey-Freke, A. D.	Hannington Hall, Highworth, Wilts.
Jackson, J.	Langholm, Dumfriesshire.
Jago, E.	Coldrenick, Liskeard, Cornwall.
Johnston, Miss E.	Epsom Road, Guildford.
*Jordan, C., I.S.O.	Store Yard, Hyde Park, W.
*Kay, Sir Brook, Bart.	Battledown, Cheltenham.
Leven & Melville, The Earl of	Roehampton House, Surrey, and Glenferness
*Maclear, Admiral J.P.	Chiddingfold, Godalming.
Maxwell, W.	Donavourd, Pitlochry.
Melville, J.	Alloa, Clackmannan.
Morton, Dowager Countess of	Dalmahoy, Midlothian.
Musgrave, Rev. Canon	Hascombe Rectory, Godalming.
Newbery, G. J.	Stafford House, Broxbourne.
Newton, T. H. G.	Barrells, Henley-in-Arden.
Oelrichs, Wm.	Princes Park, Liverpool.
Owen, Rev. H. D.	Penmynydd Vicarage, Llangefin, Anglesey.
Pascoe, J. W.	Emberton Manor, Newport Pagnell.
*Paul, G. E.	Harlow Moor Drive, Harrogate.
*Phillpott, J. M.	Observer at 62, Camden Square, N.W.
Plater, Rev. C. E.	Dymchurch Rectory, Folkestone.
Propert, Dr. W. Peregrine	The Manor Ho., St. David's, Pembrokeshire.
Ramsay, G. J.	Currymire, Kilsyth.
Read, M.	The Clyffe, Corton, Lowestoft.
Reynolds, L. W.	Millington House, Thelwall, Cheshire.
*Rolle, The Hon. Mark	Steventon, Torrington, N. Devon.
Rowe, M.	Belle Vue, Greystoke, Penrith.
Rowntree, J. S.	Mount Villas, York.
Rowntree, J. W.	Silverdale, Scalby, Yorks.
St. Maur, Lord Percy	Burton Hall, Loughborough.
Sewell, Col. F. R.	Brandlingill, Cockermouth.
*Sprot, Lieut.-General John	Riddell, Lilliesleaf, N.B.
Thomson, Miss	Stanton St. Johns, Oxford.
Trotter, J.	Coleford, Gloucestershire.
*Venables, Rev. Canon George	Burgh Castle Rectory, Great Yarmouth.
Walker, Rev. J.	Averham Rectory, Newark.
Waugh, Rev. W. R. M.	The Observatory, Portland.
Westlake, Mrs.	Fordingbridge, Salisbury.
Watkins, Rev. J.	Willingham Rectory, Cambridge.
Woodhouse, A. J.	Helenslea, Child's Hill, N.W.

* See Biographical Note *ante*.

RAINFALL AND METEOROLOGY

OF

1906.

EXPLANATION.

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

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

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

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

ON THE METEOROLOGY OF 1906,

With Notes on some of the Principal Phenomena.

NOTES ON THE DAYS OF 1906.

These Notes should be read in conjunction with those on Heavy Rains in 1906.

JANUARY.

5th.—*Cirencester* (VI). Severe S.W. gale, especially from 5 to 7 p.m., doing an immense amount of damage.

5th and 6th.—*Bristol* (VI). Severe gale, destroying many chimneys. At King Square Avenue a chimney crashed through the roof of a bedroom, killing a young woman who was in bed.—*Stroud* (VI). Great S.W. gale. Within a quarter of a mile radius from here more than 26 large trees, chiefly elms, were blown down. At Bowbridge, two miles away, a chimney stack was blown down and killed a young woman in her bed.

6th.—*Wolverton* (III). Hurricane from S.W.—*Swerford* (III). Several trees were blown down and other damage done by a gale. —*Stoke Bishop* (VI). Terrific gale. Dozens of elm trees, many 3 to 4 feet in diameter, were snapped off near the ground, others torn up by the roots. The district involved was about a mile and a half long and a mile and a half wide.

6th and 7th.—*Clanfield* (VI). Terrific gale. Eight huge elm trees within half a mile from one another were torn up by the roots.

7th.—*Upper Midhope* (IX). Four and a half inches of S fell during the night.

8th.—*Ingatestone* (IV). TS.—*Meltham* (IX). TS from 4.20 to 4.40 p.m.

9th.—*Fulham, Edith Road* (I). TS with L and H from 1.55 to 2.15 p.m.—*St. Pancras, Camden Square* (I). Short but violent TS, accompanied by showers of H, and great darkness.—*Battersea Park* (I). Severe TS at 2 p.m.—*Telegraph Hill* (I). Heavy TS and H.—*Witley*

(II). H and T at 2.15 p.m.—*Warlingham* (II). TS with H at about 2.15 p.m.—*Epsom* (II). TS with H from 2.15 to 2.35 p.m.—*New Malden* (II). Sharp TS with R and H from 2 to 2.20 p.m.—*Crowborough, Steel Cross House* (II). Sharp TS with H, R and wind.—*Blisworth* (III). Heavy TS with H.—*Foulness* (IV). Sharp TS.

12th.—*Westminster, St. James's Park* (I). Min. temp. 46°, or 14° above the average min. for January 12th.

16th.—*Oystermouth* (XI). TS.—*Inveraray* (XV). Much H.

18th.—*Blisworth* (III). Tremendous S.W. wind and H at 5 p.m.—*Lancaster* (VIII). Sudden darkness from noon till 0.30 p.m., followed by heavy S.—*Castledermot* (XXI). Heavy fall of S, which quickly disappeared.

19th.—*Stoke Newington* (I). TS with H at 2.15 p.m.

22nd.—*Castledermot* (XXI). Dense fog.

23rd.—*St. Pancras, Camden Square* (I). Extraordinary darkness from 10 to 11.40 a.m.—*New Malden* (II). Dense fog.

FEBRUARY.

7th.—*Stradbroke* (IV). About 2 p.m. a fierce blizzard swept over the country. H, T and L, followed by sleet, raged for an hour or two.—*Boston* (VII). S storm and blizzard with T and L. Two churches in the neighbourhood were much damaged.

8th.*—*Fulham, Edith Road* (I). TS with L and H from 2.50 to 3 p.m.—*Stoke Newington* (I). T and H at 3 p.m.—*Battersea Park* (I). TS with heavy H.—*Telegraph Hill* (I). Heavy TS accompanied by a strong gale, H and R.—*Frimley Green* (II). TS, H and S from 3 to 3.30 p.m., with very high wind.—*Warlingham* (II). Sharp TS at 3 p.m. with abrupt fall of temp. and H and S.—*Epsom* (II). Severe cyclonic TS accompanied by heavy H, some of the stones being the size of small marbles. The L was of two distinct colours, purple and blue. —*Hoo St. Mary* (II). Severe TS at about 3.30 p.m., with vivid L, loud T and a gale of wind, with about 2 inches of S and H. This lasted about 30 minutes. The wind was S.W. shifting to N. and N.W.—*Faversham, Uplees Marshes* (II). Storm of T and H lasting for about an hour in the afternoon. The L was of a purple colour and the hailstones were half-an-inch in diameter.—*Crowborough* (II). T, L and H at 3.40 p.m., followed by S.—*Sulhampstead* (II). TS.—*Watford* (III). TS at 2.30 p.m.—*Haileybury* (III). TS at 2.35 p.m.

* See also *Met. Mag.*, February, 1906, p. 6, and June, 1906, p. 90.

with S and H.—*Harpenden* (III). H and S with T and L from 2 to 3 p.m.—*Hitchin* (III). Extraordinary TS with H and S. The L was very near and incessant; it was similar to the storm of January, 1895.—*Great Marlow* (III). During a N.W. gale, accompanied by heavy T and vivid L, five large elms and one large withy were blown down.—*Oving* (III). Heavy TS with S and H.—*Culham* (III). Sudden and heavy R, S and H at 2 p.m., and TS at 2.30 p.m.—*Pitsford* (III). About 1 p.m. it became very dark, and there was heavy S with T, L and strong wind. S storms recurred at 3.45 and 10 p.m.—*Peterborough* (III). TS and H at 1.15 p.m.—*Odsey* [*Ashwell*] (III). TS, with squall of H and S.—*Cambridge* (III). Sharp TS from 1.45 to 2.24 p.m., with H and S.—*Stretham* (III). Heavy TS and many trees blown down.—*Foulness* (IV). Sharp TS.—*Ingatestone* (IV). Severe TS. Stock church, about four miles away, was struck by L.—*Epping* (IV). Heavy TS, with H and S at about 3 p.m.—*Writtle* (IV). A man working in a garden was struck by L and stunned.—*Clacton* (IV). Sharp TS, with terrific gusts of wind and a deluge of R and H, followed by S.—*Colchester* (IV). Violent TS, with extraordinary T and L.—*Harwich* (IV). Severe TS and S. One flash of L was seen to strike the conductor on the parish church.—*Bulmer Lodge* [*Sudbury*] (IV). TS accompanied by H, S and a gale of wind.—*Felixstowe* (IV). Heavy TS commenced at 2.30 p.m.—*Ipswich, Foxhall* (IV).

"A homestead known as the Valley Farm, between the Bucklesham and Foxhall Roads, caught the full force of what can only be described as a whirlwind. . . . All the chimneys on the house were down, the roof had been stripped, and the gable end had been shifted several inches; the roofs of the barn, the stables, and other outbuildings were also off; and a belt of trees, numbering about twenty—including oak, ash and poplar—had been brought to the ground, a considerable proportion having fallen simultaneously. The hailstones, which came down in shoals, were of abnormal size, some being as large as marbles or beans."—*East Anglian Daily Times.*

—*Rushmere* (IV). The force of the wind was so great that in two or three minutes about twenty of the finest Australian pines were uprooted, and levelled to the ground or snapped in two. Slates from the roof of the house were carried by the wind a distance of 180 feet.—*Rendlesham* (IV). Very heavy TS at 3 p.m., followed by S storm.—*Aldeburgh* (IV). Severe TS with fierce H at 2.30 p.m.—*Little Saxham* (IV). Severe TS about 2 a.m., lasting about a quarter of an hour, with R followed by sleet and S.—*Mildenhall* (IV). Sharp TS at 2 p.m.

—*Barsham* (IV). Severe TS, during which

"Lightning wrought sad havoc at the east end of the church. Forcing an entry through the roof near the top of the east stained window, some of the glass in which was perforated as if stones had been thrown at it, the electric current seems to have made its way down by the tracery, the mullions being damaged in places inside and out; it then smashed a large slab of Purbeck marble, which formed the altar table, casting the pieces about the sanctuary. The marble steps to the altar were torn up, a great hole was made in the east wall, and a large piece of the marble step leading from the chancel to the sanctuary was splintered. The altar cloths, &c., were torn to shreds, and the carpet twisted up as if by a whirlwind. Two candlesticks on a ledge above the altar were thrown down, but not injured, while the altar cross and a processional cross close by were untouched. Fortunately, nothing caught fire, though some of the linen and gold thread and lace were singed and blackened." —*East Anglian Daily Times.*

—*Lowestoft, Corton* (IV). Blizzard travelling from N.W. to S.E. Loud T and vivid L with H and S from 2.15 to 2.45 p.m.—*Burgh Castle* (IV). Sudden severe storm of H, with fierce T and L at 2 p.m., followed by sleet and later by heavy S.—*Diss* (IV). During a severe TS a wooden pinnacle on the tower of the parish church was struck by L and fired, and a gas-pipe in the belfry was fused setting fire to a beam.—*Norwich* (IV). Exceptionally severe TS, the L being very vivid, while H came down in a perfect deluge. The storm lasted fifteen minutes, and the H then gave place to S.—*Swaffham* (IV.) TS and S.—*Blakeney* (IV). H, S and heavy tempest. No damage was done here, but at Kelling several geese and a large gull were killed by L.—*Droitwich, Himbleton* (VI). T and about two inches of S.—*Wistow Hall* (VII). Fearful storm; the wind blew a gale and sleet and H fell in torrents, whilst the T and L were more severe than is usual even in summer.—*Waltham-on-the-Wolds* (VII). TS with S showers.—*Welbourn* (VII). Severe blizzard with T and H.—*Irby-upon-Humber.* (VII). T, L and H at noon.—*Nottingham* (VII). Smart H storm, accompanied by T and L, at noon, followed at night by S to the depth of 3 or 4 inches.—*Findern* (VII). TSS and about three inches of S. A house at Bretby, about 3 miles distant, was struck by L and set on fire.—*Bacup* (VIII). TS at 4 p.m.—*Blackpool* (VIII). S six inches deep.—*Lancaster* (VIII). TS at 9 p.m. lasting about 10 minutes.—*Upper Midhope* (IX). T and L with R, H and sleet.—*Bradford* (IX). At 11 a.m. occurred a "veering squall" accompanied by one flash of L and heavy R, turning to H and sleet.

9th.—*St. Annes-on-the-Sea* (VIII). Two inches of S, drifting to as much as three feet in places.—*Caldicot Level, Porton* (XI). During a

storm from N.W. the wind exerted a pressure of 15 lbs. to the square foot, or a velocity of 56 miles an hour.—*Aberdeen* (XVII). A severe snowstorm affected the whole of the north-east of Scotland, accompanied by a N.W. gale.

10th.—*Penzance* (V). T and L.

11th.—*Dunmanway* (XX). Loud T at 3 p.m. with shower of H and S. The L killed a horse and burnt a hayrick 3½ miles from here.

13th.—*St. Mabyn, Pencarrow* (V). An inch of S fell in half an hour.

14th.—*Penzance* (V). T and L.

17th.—*Leicester* (VII). A magnificent sun pillar appeared in a glorious crimson sunset. It rose vertically to about 15° from the horizon, and lasted three or four minutes, about 5.30 p.m.

18th.—*Sulhamstead* (II). "London" fog: soot found in gauge. The wind was E.

22nd.—*Alton* (II). Four inches of S.—*Harptree Court* (V). Four inches of S.—*Ballindoney* (XXI). Heavy S storm from 3 to 6 p.m.

22nd and 23rd.—*Farnham* (II). S over four inches deep.—*Torpantau* (XI). Six inches of S.

25th.—*Forest Row, Hindleap Lodge* (II). Terrific storm of T, L and H, lasting about 10 minutes. The L was very close, the T being immediately overhead.

27th.—*Chelford* (VIII). Four inches of S fell between 8 a.m. and midday.—*Upper Midhope* (IX). Four and a half inches of S.

MARCH.

6th and 7th.*—*Fulham, Edith Road* (I). Two days like summer: max. temp. 65° and 66°.

8th.—*Meltham* (IX). T and L at 11.15 p.m.

12th.—*London* (I). Strong N.E. wind, greatly raising the tide.

"At the turn of the tide the river level at the Temple Pier was 4 ft. 4 in. above Trinity high-water mark, and in places the river was within a few inches of overflowing. The riverside piers were for some hours unapproachable from the banks, and at Putney the tide at its height was washing right up to the houses along the promenade, while the waves dashing against the bridge sent clouds of spray over the parapet."—*Daily Telegraph.*

Blakeney (IV). The highest tide since November, 1897, with a heavy N.E. to N.W. gale. No damage was done here, but at Cley many houses were inundated with salt water.—*West Derby, Liverpool* (VIII). Four and a half inches of S.—*Banff* (XVII). A tremendous north-

* See also *Met. Mag.*, March, 1906, p. 30.

easterly gale caused a remarkably high tide along the whole southern shore of the Moray Firth, doing much damage to roads along the shore, and flooding many houses.—*Castletown* (XIX). Blizzard with strong northerly gale and fine drifting S.

13th.—*Epsom* (II). Blizzard at 8.15 p.m. with an inch and a half of S.—*Swerford* (III). S about an inch and a half deep.—*Willingham* (III). Three inches of S.—*Wryde* (III). One and a half inch of S.—*Great Thurlow* (IV). Three inches of S on the ground.—*Chelford* (VIII). Three inches of S in the night.—*Llanerchymedd* (XI). S five inches deep.

14th.*—*Stretham* (III). Three inches of S.—*Doune* (XVI). Two to three inches of S.

14th and 15th.*—*Keswick* (X). Exceptionally severe frost (min. temp. 16°) on 14th was followed on 15th by the highest temp. (52°·2) since October 14th.

17th.—*Bathgate* (XIII). Serious flooding in consequence of heavy R. —*Perth* (XVI). River Tay in high flood.—*Blair Atholl* (XVI). Floods all round.

18th.—*Wolsingham* (X). TS and S.—*Kingussie* (XVIII). Highest flood in the Spey for thirty years.

29th.—*Thixendale* (IX). Northern lights at 10 p.m.

APRIL.

12th.—*Stoke Bishop* (VI). Severe TS with much H.—*Farnborough* (VI). Violent TS with ·31 in. of R in 40 minutes. So wild was it that a magnolia in full bloom was cut to ribbons.—*Hull* (IX). Dense fog followed by T and L.—*East Layton Hall* (IX). Heavy TS.—*Glamorganshire* (XI). Severe TSS, resulting in three fatal accidents in the county. At Bonvilston a farm labourer was killed while taking shelter under a tree. At Barry a farm labourer was killed instantaneously while ploughing; and an elderly farm labourer, near Pontypridd, was killed by L just after unloading a cart of mangolds.

12th and 13th.—*Addington* (III). Heavy TSS.

13th.—*Oving* (III). Heavy TS.

16th.—*Nottingham* (VII). TS of the winter type, with H.

22nd.—*Pitsford* (III). Heavy S storm at 1 p.m.

23rd.—*Warlingham* (II). At 5.55 p.m. a strange darkness spread quickly over the sky from the W., making it impossible to read

* See also *Met. Mag.*, April, 1906, p. 48.

newspaper print close to a window. At 6.17 it passed away to N.E. and S.E.—*Throcking* (III). Three inches of S fell before 7 a.m.

24th.—*Epsom* (II). Two inches of S fell between 7.40 and 9.40 a.m. —*Osborne* (II). A large ash tree about a quarter of a mile to the E. was struck by L and its trunk split and shattered, the bark being also stripped off.

26th.—*Longney* (VI). Disastrous frost, causing great loss to fruit growers in this district.—*Cirencester* (VI). Mean temp. only 32°·5.—*Mickleton* (VI). Severe frost did great damage in the Vale of Evesham. —*Ledbury* (VI). Severe frost cut off gooseberries and plums throughout the county.—*Pembridge* (VI). S and frost killed much blossom on fruit trees.—*Bridgnorth* (VI). Severe frost cut off damson and plum blossom and killed the young shoots of trees.—*Worcester* (VI). S from 5 a.m. to 0.30 p.m. and from 3 to 5 p.m., followed by severe frost which destroyed the pear and plum crops.—*Bromsgrove* (VI). Much damage was done to fruit crops, pear trees being in full bloom, by S, H and severe frost. Next morning icicles were found on the flowers.—*Barnt Green* (VI). S from 6 a.m. to 4 p.m., about five inches in depth.

29th.—*Cirencester* (VI). Very severe TSS with tremendous H five miles to the S.

30th.—*Colchester, Lexden* (IV.) Severe H storm with T and L.—*Sudbury* (IV). Heavy H storm with ·50 in. of R, the bulk of which fell in half an hour.—*Chelford* (VIII). Almost pitch dark at 1 p.m.

MAY.

1st.—*Thixendale* (IX). Appalling darkness from 5 to 6 p.m.

2nd.—*Coolatore* (XXI). In 8 minutes ·18 in. of R fell.

7th.—*Launceston* (V). Thick fog till 9 a.m.

8th.*—*Farnham* (II). Remarkable TS, continuing almost without intermission from 3 to 10.30 p.m.—*Stockbridge, Ashley* (II). Heavy TS with R from 6 to 8 p.m.—*Wellington College* (II). Great TS.—*Maidenhead* (II). Heavy TS from 5 to 11.30 p.m.—*Hampton* (III). TS and 1·07 in. of R.—*Watford* (III). Terrific TS in the afternoon.—*Slough, Upton* (III). Prolonged TS lasting six hours, during which two trees were struck in the neighbourhood. At Upton 1·96 in. of R fell, but within four miles there was very little, and at Langley (two miles away) only about one inch.—*Ashton, Knotthill W. W.* (VIII).

* See also *Met. Mag.*, May, 1906, p. 65, and June, 1906, p. 94.

From 4.30 to 5.30 p.m. ·91 in. of R fell.—*Hyde* (VIII). Great rainstorm. "Tramway and railway traffic was interrupted, and houses were flooded so that many people left them in fear. Part of a leather works was destroyed, a roof collapsed at a hat works, and part of the machine-room at a calico print works was washed away. The total damage is estimated at over £10,000."—*The Times.*

9th.—*Heathfield Park* (II). Two fir trees were struck by L, which took a strip off each.—*Tottingworth Park* (II). Continuous roll of T from 0.30 to 2.15 p.m.—*Burwash* (II). Between 0.50 and 2.20 p.m. 2·18 in. of R fell.—*Ticehurst, Myskyns* (II). Heavy local downpour, 1·85 in. falling from 0.15 to about 2.30 p.m. At Wadhurst, 5 miles to the N.W., not a drop fell, and at Burwash, 2½ miles S., there was much H though here there was hardly any. The storm appears to have passed down the valley towards Etchingham, its edge just touching Hawkhurst.—*Reading* (II). During a TS at Emmir Green four men, taking shelter in a shed, were struck by L; one was killed on the spot, and all the others injured.

10th.—*Dumfries* (XII). T and tremendous H storms.

12th.—*Ramsgate* (II). Between 5 and 5.30 p.m. ·60 in. of R fell during a TS.—*Milton Bryant* (III). In 10 minutes ·23 in. of R fell.

12th and 13th.—*Burgh Castle* (IV). Heavy TSS.

13th.*—*Lowestoft* (IV). TS at about 3 a.m., of moderate severity. A second storm, somewhat more severe, came practically over the town about 8 a.m. Some of the T was startling, and R fell in a complete deluge for a time.—*Denton* (IV). Eight bullocks were struck by L and killed. Four other animals were more or less injured.—*Yarmouth* (IV). From midnight until Sunday afternoon there was a succession of TSS, which continued with scarcely any interval. The L was vivid and the roll of T almost incessant. R at times fell very heavily. On Sunday morning lightning struck St. Peter's Church, causing some alarm during the service. Some damage was sustained to the flagstaff on the tower.—*Norwich, Eaton* (IV). T commenced at 1 a.m. and a severe TS slowly crept up from the S.E. at 4 a.m., being at its height about 5 a.m. There was not much R with this storm, but the T was heavy and frequent. This was followed by a succession of further TSS, one slowly following the other, and at times appearing to be nearly stationary, up to past 1 p.m., during which time the T was almost continuous, in fact it was like one protracted TS lasting over 12 hours, the last peal

* See also *Met. Mag.*, November, 1906, p. 191.

having been heard here at 1.40 p.m. The heaviest R occurred between 7 and 9 a.m., the amount gauged at 9 a.m. being 1·01 in., after which ·22 in. more fell up to 3 p.m.—*Brundall* (IV). Severe TS, the phenomenal amount of R recorded in the 12 hours ending 3 p.m. being as much as 3·21 in., which largely exceeds any fall previously registered in one day in that locality during 17 years.—*Blakeney* (IV). A heavy storm commenced at 3 a.m., and by 9 a.m. ·71 in. of R had fallen. The storm recommenced at 11 a.m., and ·31 in fell by 3 p.m. —*Alderbury* (V). Heavy TS at 2 p.m., and again, more violently, between 6 and 7 p.m. and between 8.30 and 10 p.m.—*Tisbury* (V). Terrible TS and 1·97 in. of R.—*East Knoyle* (V). TS with the heaviest H known for 16 years.—*Salisbury, London Road* (V). TS when ·25 in. of R fell in half-an-hour.—*Wylye* (V). R began at 4.30 p.m. with frequent L and T. At 5.30 p.m. it appeared to clear, but a little before 6 another storm broke and lasted, with slight intermission, till past 10 p.m. In the 2¾ hours of heaviest storm 2·52 in. of R fell. Much damage was done to roads and fields, the surface of one field being washed bodily into the high road.—*Shrewton* (V). Violent TS to S.E. and W., and much damage by L, H and R. T and L continued for seven hours, but only ·06 in. of R fell.—*Gillingham* (V). Extraordinary TS lasting from 3 to 10 p.m., with continuous heavy R, also H and almost incessant vivid L and heavy T. In the above period 2·36 in. of R fell.—*Wellington* (V). Violent TS.—*North Cadbury* (V). T, L, H and heavy R during the afternoon. The number of casualties in the neighbourhood was great. In this parish four cows and two trees were struck by L.—*Shepton Mallet* (V). Severe and prolonged TS from 5 to 11 p.m.—*Wells, Wookey* (V). The church was struck by L during divine service at about 7 p.m.—*Frome, Mells* (V). A fall of 3·00 in. of R in 5 hours caused a disastrous flood, the worst since 1808. The L, which was incessant, struck several trees and set a haystack on fire.—*Frome, Orchardleigh* (V). A sudden flood, caused by a TS, carried away a bridge and walls between Orchardleigh and Buckland, and drowned many young partridges, pheasants, chickens and ducklings.—*Harptree Court* (V). Between 7.25 and 8.7 p.m. 1·35 in of R fell during a TS in 42 minutes.—*Clifton* (VI). Much T and L at night, but the severe TS stopped two miles S. of this place.

16th.—*Crowborough* (II). TS and H.—*Peterborough* (III). Heavy H storm at 5.30 p.m., lasting about 10 minutes. The stones were as large as Barcelona nuts, and lay two inches deep on the ground in places.—*Wearhead* (X). S storm—*Lynturk* (XVII). Sleet, S and H.

16th and 17th.—*Seathwaite* (X). R, H, sleet and S.

17th.—*Blair Atholl* (XVI). S on Tulloch.—*Miltown Malbay* (XX). The bitterest day of the year, with fierce H storms.—*Ballindoney* (XXI). S showers.

18th.—*St. Boswells* (XII). H storm from 11 a.m. till 0.30 p.m., yielding ·40 in.

19th.—*Newcastle, Town Moor* (X). R 1·90 in., the greatest fall in May in 39 years. Severe floods occurred in many places in Northumberland and Durham.—*Ilderton* (X). Heavy floods caused great damage, bridges being carried away.

22nd.—*Middlesbrough* (IX). Min. temp. 27°, but the dryness of the air prevented great damage to fruit.

24th.—*Norwich, Eaton* (IV). TS with ·32 in. of R from 2·35 to 2·50 p.m.—*Goldsborough Hall* (IX). Severe TS.—*Leyburn, Bolton Hall* (IX). In less than an hour ·55 in. of R fell.—*East Layton Hall* (IX). Heavy TS.—*Wearhead* (X). Severe tempest.—*Seathwaite* (X). TS from 4 to 6.30 p.m.—*Dumfries* (XII). TS at 5 p.m.—*Maxwelton House* (XII). Heavy TS.

25th.*—*Oxshott* (II). Sudden squall at 11.26 a.m., causing the loss of a meteorological kite, which fell 2¼ miles from the place where the wire broke.—*Aberdeen* (XVII). Heavy TS at 3 a.m.

30th.—*Launceston* (V). Thick fog in evening.—*Darrynane* (XX). Thick fog.

JUNE.

1st.†—*Selling* (II). Violent H storm travelling from W to E., in a path about half a mile wide, having its centre about a quarter of a mile N. of this. It passed near Sittingbourne, Sheldwich and Selling, and went towards Whitstable. Leaves of fruit trees and hops were much cut.—*Ramsgate* (II). Severe TS.—*Milton Bryant* (III). Heavy R, H and T.—*Bromsgrove* (VI). Heavy TS in the afternoon.

2nd.—*Meltham* (IX). Rather severe TS from 3 to 6 p.m.

5th.—*Epsom* (II). Ground frost. Min. in screen 34°·6.

8th.—*Totland Bay* (II). Relative humidity fell to 42 per cent., this being the driest June day in 20 years.

10th.—*Bromyard, Rowden Abbey* (VI). In less than half-an-hour during the afternoon ·87 in. of R fell.

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* See also *Met. Mag.*, July, 1906, p. 112.

† See also *Met. Mag.*, June, 1906, p. 95.

12th.—*Colinsburgh* (XVI). The max. temp. reached 82°·7, but between 3 and 4 p.m. the wind changed from W. to E. and by 5 p.m. the temp. had fallen 26°.

16th. —*Kensington, Holland House* (I). Severe TS which lasted about 20 minutes. The H, which did much damage to tender foliage and fruit, lay on the ground for an hour afterwards.—*Fulham, Edith Road* (I). TS at about 4.30 p.m., with very heavy R, destructive to gardens.—*Telegraph Hill* (I). Heavy TS.—*Abingdon, Park Road* (II). In 10 minutes ·26 in. of R fell.—*Slough* (III). T and very large H.—*Halton* (III). Heavy TS lasting 25 minutes during which time ·48 in. of R and H fell. The H did considerable damage to crops.—*Pitsford* (III). Heavy TS about 1 p.m.—*Thrapston, Islip* (III). Between 5 a.m. and 3 p.m. more than 3 inches of R fell—a fall that must almost establish a record in this part of the country.—*Shrewton* (V). TSS.

17th.—*Cropwell Butler* (VII). In 10 minutes ·35 in. of R fell.—*Meltham, Harewood Lodge* (IX). TS from 3.45 to 4.15 p.m. with heavy R. From 4.2 to 4.10 p.m. ·41 in fell.

21st and 22nd.—*Brecon, Penoyre* (XI). Severe TS lasting from 8 p.m. on 21st to 2 a.m. on 22nd.

22nd.—*St. Andrews* (XVI). Thick fog in afternoon.

23rd.—*Bournemouth, Kempsey* (II). TS from 10 to 12 p.m. House in Albert Road struck by L.—*Christchurch* (II). Heavy TS at night with continuous L and destructive H, some of the stones being 5 inches in circumference.—*Wantage, Ardington* (II). Severe TS.—*Pitsford* (III). Heavy TS during the night.—*Tisbury* (V). Terrible TS.—*Shrewton* (V). Severe TS.—*Highworth, Hannington* (V). Severe TS.—*Weymouth* (V). Heavy TS at 8.45 p.m., when ·54 in. of R fell in 20 minutes.—*Upwey* (V). T, L and very large H stones.—*Bere Regis, Longthorns* (V). Heavy TS in the evening when 1·33 in. of R fell in about 2 hours.—*Chedington* (V). TS with vivid L from 8.30 to 11 p.m.—*Teignmouth* (V). Heavy TS between 6.15 and 7 p.m.—*Dawlish, Blyth* (V). Between 6.30 and 7 p.m. ·39 in. of R fell.—*Launceston* (V). Heavy T and vivid L from 5 to 6 p.m.—*Crewkerne* (V). Severe TS, ·66 in. of R falling from 9 to 10.30 p.m.—*Yeovil* (V). Heavy TS.—*Wellington* (V). Heavy TS.—*Shepton Mallet* (V). Severe TS from 9.15 to 10.30 p.m.—*Worcester, Boughton Park* (VI). Heavy TS at midnight and ·85 in. of R, most of which fell in 3 hours.—*Bromsgrove, Stoke Reformatory* (VI). TS at night, with ·73 in. of R in about two hours.—*Goldsborough Hall* (IX). Heavy TS.

—*Llanfrechfa Grange* (XI). Terrible TS with heavy T and vivid L.—*Swansea* (XI). A great TS commenced at 6 p.m. and culminated in three distinct outbursts of exceptional severity. For displays of L Swansea had had no storm like it for many years. Considerable damage was done by L in the lower portions of the town. A house in James Street was struck by L and damaged.—*Aberavon* (XI). Terrific TS in the Cwmavon Valley. The Parish Church spire was struck by L and a portion about a yard long from the top broken off. At Graigytewgoed, near by, the chimney of a house was also struck, the falling masonry causing considerable damage to the roofing.—*Briton Ferry* (XI). Severe TS; ·56 in. of R fell in 40 minutes, and 1·20 in. in 3 hours.—*Torpantau* (XI). Severe TS.

23rd and 24th.—*Stockbridge, Ashley* (II). Two violent TSS occurred between 11 p.m. on 23rd and 2.30 a.m. on 24th, R ceasing for about half-an-hour between the two. Early in the second came a violent fall of large H stones which sadly cut up vegetation. The inclined road became a rushing stream and was badly cut up. Several of the flashes of L occurred in the immediate neighbourhood. The storms travelled from W. to E. Total R 1·83 in.—*Bishops Cannings* (V). T and L from 10 p.m. to 2 a.m.—*Wootton Bassett* (V). Heavy TS from 10 p.m. to 3 a.m. R 1·03 in.—*Stroud* (VI). TS from 10.30 p.m. till 2 a.m.—*Cirencester* (VI). Severe TS from 11 p.m. 23rd to 2 a.m. 24th.

24th.—*Oving* (III). Heavy TS at 2 a.m.—*Addington* (III). Heavy TS with violent T and L. Seven sheep and two bullocks were killed in the neighbourhood.—*Oxford, Banbury Road* (III). TS from 0.45 to 2 a.m., with incessant L. R ·41 in. falling chiefly from 1.15 to 2.45 a.m.—*Witney* (III). Between 0.30 and 1.30 a.m. ·55 in. of R fell.—*Swerford* (III). Soon after 1 a.m. commenced the heaviest TS experienced for many years. It broke right over the village and from 1.20 to 2 a.m. the L and T were incessant. The storm passed away at 2.30. Only ·42 in of R fell.—*Blisworth* (III). Terrific T, L and R from 1.45 to 2.45 a.m.—*Lexden* (IV). Sharp TS at 3.30 a.m.—*Great Glemham* (IV). Sharp TS between 5 and 7 a.m., when 1·06 in. of R fell, the heaviest fall in 16 years' observations.—*Barnt Green* (VI). Heavy TS from 1 to 4 a.m.—*Leamington* (VI). From 1.15 to 2.45 a.m. ·60 in. of R fell.—*Trecastle* (XI). Severe TS.

24th and 25th.—*Alderbury* (V). Incessant L and T from 10 p.m. till 1 a.m on 25th.

25th.—*Somersham Vicarage* (III). TS from S., with 1·00 in. of R from 3 to 4 a.m.

27th.—Earthquake shocks were reported to have been felt at the following places. Time, 9.45 a.m. :—*Tavistock* (V).—*Moretonhampstead* (V).—*Lynmouth* (V). Slight.—*Liskeard* (V).—*Templecombe* (V). —*Ross* (VI).—*Bridgnorth* (VI). Slight.—*Llanfrechfa Grange* (XI).—*Oystermouth* (XI). Much damage to chimneys and a general panic.—*Llwynypia* (XI).—*Briton Ferry* (XI).—*Neath* (XI). Much damage in Neath, many chimneys falling.—*Ystalyfera* (XI). Accompanied by loud reports, lasting 2 or 3 seconds.—*Llangynog, Coomb* (XI). Slight.—*Carmarthen* (XI).—*Haverfordwest* (XI).—*St. Davids* (XI). Slight. Windows and crockery clattered.—*Trecastle* (XI).—*Llansaintfraid-in-Elvel* (XI). Slight.

28th.—*Miltown Malbay* (XX). Frost.

28th and 29th—*London* (I). As a result of the heavy rainfall, the District Railway line at Walham Green, Earl's Court and Hammersmith was flooded, causing a complete suspension of traffic to the City for two or three hours. Traffic was resumed shortly after midday on 29th. Some low-lying parts of North London were flooded, and railway traffic was impeded. The tram service at Hackney was suspended for a time. Telephone communication was partially upset by a mishap at the Hop Exchange, caused by the heavy rain, and two of the evening newspaper offices near the Thames Embankment were flooded. In South London the low-lying parts of Battersea suffered, and the storm caused considerable damage at Wimbledon. Many trees were blown down on Wimbledon Common, and great damage was also done to the trees in the grand drive. All along the Thames Valley floods were reported.—*Fulham, Edith Road* (I). From 11.30 p.m. on 28th to 11.15 a.m. on 29th 2·29 in. of R fell.—*Farnham, Short Heath Lodge* (II). R commenced at about 10 p.m. on 28th and continued till 11.30 a.m. on 29th, producing 1·78 in.—*Purley, Riddlesdown Road* (II). R began at 11.45 a.m. and lasted till 0.30 p.m. on 29th, falling as follows :—

							ins.	Aggregate ins.
From	11.45 p.m.,	28th to	0.30 a.m.,	29th		.....	0·01	..... 0·01
,,	0.30 a.m.,	29th to	0.40 ,,	,,		.....	0·30	..... 0·31
,,	0.40 ,,	,,	1.20 ,,	,,		.....	drizzle	..... 0·31
,,	1.20 ,,	,,	2.20 ,,	,,		.....	0·50	..... 0·81
,,	2.20 ,,	,,	7.0 ,,	,,		.....	0·74	..... 1·55
,,	7.0 ,,	,,	8.0 ,,	,,		.....	0·01	..... 1·56
,,	8.0 ,,	,,	9.0 ,,	,,		.....	0·01	..... 1·57
,,	9.0 ,,	,,	9.10 ,,	,,		.....	0·01	..... 1·58
,,	9.10 ,,	,,	11.45 ,,	,,		.....	0·14	..... 1·72
,,	11.45 ,,	,,	0.30 p.m.	,,		.....	drizzle	..... 1·72

—*Dover* (II).

"Early in the morning a very heavy thunderstorm broke. About 11 o'clock the wind sprang up from the north-east, and blew with great force. Trees were up-rooted, and one lady in Randolph Gardens had a narrow escape, a large tree falling against her window and completely destroying the framework. A Lloyd's message from Dover says that the French mail packet *Pas de Calais*, which left Calais at 1.55 p.m. yesterday, had been at sea only about 15 minutes when she took heavy seas one after the other, which carried away one of the after boats and a davit on the port side. The sea swept the upper deck right forward, carrying away about 5 ft. of her fore topmast. Such a sea has not been witnessed for years. The *Queen*, turbine steamer, left Dover at 1.10 p.m. for Calais, and was obliged to proceed to Boulogne owing to the heavy seas. The Ostend boat *Prince Albert* took 5¾ hours to reach Dover, and had two horse boxes washed overboard."

—*Crowborough, Steel Cross House* (II). R commenced at 11 p.m. on 28th and lasted until 9 a.m. on 29th, measuring 1·60 in. The heaviest fall took place in the early hours of 29th.—*Wellington College* (II). R, 2·04 in. falling in 8 hours.—*Didcot, Upton* (II). In 13 hours 1·91 in. of R fell.—*Wantage, Ardington* (II). R 1·75 in., of which an inch fell between midnight and 9 a.m. on 29th.—*Staines, Belle Vue* (III). R from 11 p.m. on 28th to 11 a.m. on 29th, yielding 2·03 in.—*Hedsor* (III). From 10.30 p.m. on 28th to noon on 29th 2·80 in. of R fell.—*Oving* (III). R commenced at about 9 p.m. on 28th and was continuous till about 11 a.m. on 29th. Total, 1·88 in. —*Culham* (III). R began at 8 p.m. on 28th and ceased at 10 a.m. on 29th. Fall, 1·87 in.—*Bicester, Middleton Park* (III). Thirty hours' continuous R, measuring 1·87 in.—*Steeple Aston* (III). R from 3 p.m. on 28th till 11.30 a.m. on 29th, producing 1·74 in.—*Kensworth* (III). R from 10 p.m., 28th, to 9 a.m., 29th; total 2·30 in. This did much good generally, and corn was not much injured in this district.—*Cambridge, Sydney Street* (III). Continuous R from 10.45 p.m. on 28th to noon on 29th, measuring 2·58 in.—*Burwell* (III). R 2·28 in., nearly all of which fell between 9 p.m. on 28th and noon on 29th.—*Bury St. Edmunds* (IV). Heavy, cold R, measuring 1·94 in., falling with a northerly wind, and practically all of it coming down in a period of 12 hours.

29th.*—*St. Marylebone, Northwick Terrace* (I). R began exactly at midnight of 28th, and at 9.30 a.m. on 29th 2·10 in. was measured. *St. Pancras, Camden Square* (I). R commenced at 0.27 a.m., fell at first

* See also *Met. Mag.*, July, 1906, p. 102.

irregularly but after 2.15 steadily until 8.15 a.m., when it slackened; measureable R ceased at 11.45 a.m. During the whole period 2·28 in. fell.—*Burgh Heath* (II). From 2.30 to 10 a.m. 1·94 in. of R fell. At 2.30 a.m. a slight earthquake shock was noticed.—*New Malden* (II). Heavy R storm when 2·05 in. fell from 0.15 to 9 a.m.—*Harrow Weald* (III). From midnight to noon 2·46 in. of R fell.—*Haileybury* (III). Heavy R from 0.45 till about 9 a.m., afterwards decreasing in intensity. Total 2·45 in., amounting to 9·8 per cent. of the year's total and 33·3 per cent. of that of the six summer months.—*Sawston* (III). R from midnight to 11 a.m.; total fall 2·09 in. Strong N.E. wind.

30th.—*Nenagh* (XX). Severe late frost cut potatoes and the young shoots of ash, spruce, gorse and bracken, checking their growth for the year.

JULY.

1st.—*Totland Bay* (II). The coldest July night in 20 years. Min. temp. 43°·8.

3rd.—*Liskeard, Trevillis* (V). T from 3 to 3.30 p.m. and ·54 in. of R in 30 minutes.

6th.—*Swaffham* (IV). In about 35 minutes ·77 in. of R fell. At Sporle, 2 miles away, there was only ·04 in.; a tree in this parish was struck by L and a mile and a half away two cows were struck.

8th and 9th.—*Ballinora* (XX). "Mr. George Logan has suffered very severe loss owing to an extraordinary fall of hailstones which attended a thunderstorm of brief duration. The hailstones were as large as oranges and when the downpour ceased were found to a depth of nearly 2 ft. upon the ground. Mr. Logan's crops of oats, turnips, mangolds and potatoes have been completely destroyed. Not only has this year's fruit crop been utterly destroyed, but the bark of the trees has been so battered and torn that replanting will have to be undertaken. The total loss is estimated at £800. Curiously enough, the damage is confined to Mr. Logan's farm, none of his neighbours suffering."—(*The Times*, from its Cork correspondent.)

9th.—*London* (I). Shortly after midday the city was shrouded in darkness similar to that which usually accompanies a dense November fog. At an inquest regarding the death of a man aged 71 a verdict of "Suicide through the heat" was returned.

11th.—*Blair Atholl* (XVI). Potatoes were blackened by frost.

12th.*—*Bournemouth, Kempsey* (II). TS from 0.30 to 0.52 p.m. with ·60 in. of R.

19th.—*Thurso* (XIX). In a strong north-westerly gale the schooner *Elizabeth Miller* was driven ashore in Sandside Bay and became a total wreck.†

27th.—*London Bridge* (I). Remarkably sudden and sharp TS of short duration.—*Maidstone, Langley* (II). The usual annual TS, with a remarkable display of L, the greatest in Mid-Kent since July 6th, 1894. In 17 minutes ·21 in. of R fell.—*Farningham* (II). Between 1 and 5 p.m. two TSS broke, producing respectively ·43 in. and 1·94 in. of R. At Chislehurst, 8 miles distant, no R fell.—*Gravesend, Thong* (II). TS, but much less R than at other places in the neighbourhood.—*Erith, Crossness* (II). Between 2 and 2.30 p.m. over 1·00 in. of R fell.—*Eastchurch* (II). The most severe TS experienced for many years, and 2·05 in. of R. A large barn at Shurland was fired by L at 10 a.m. and burnt to the ground.—*Leysdown* (II). T and H storm. Total R 1·75 in.—*Ealing, Avenue Lodge* (III). In two hours ·98 in. of R fell.—*Northwood, The Grange* (III). In 43 minutes 1·40 in. of R fell—*Harrow Weald* (III). TSS. Between 7.30 and 9.30 p.m. ·67 in. of R fell.—*Watford* (III). TS and 1·32 in. of R, all of which fell between 0.55 and 1.50 p.m.—*Broxbourne* (III). Violent TS and 1·28 in. of R.—*Haileybury* (III). TSS at 9.30 a.m. and at 2.30 p.m. —*Oving* (III). Heavy TS.—*Blisworth* (III). Heavy T, L and R from noon to 1.45 p.m.—*Great Paxton* (III). In an hour ·82 in. of R fell. —*Bedford* (III). Severe TS between 1.45 and 3 p.m.—*Havering* (IV). In 15 minutes ·50 in. of R fell.—*Reepham* (IV). TS and 1·35 in. of R, of which 1·13 in. fell in three-quarters of an hour, and 1·25 in. in an hour.

28th.—*Whithorn* (XII). TS, the only one of any consequence during the year.

30th.—*Wolverhampton* (VI). The intense heat made it necessary for anchor-chain makers and iron-workers in surrounding districts to stop work.—*Wolsingham* (X). Heavy TS.

31st.—*Goldsborough Hall* (IX). In less than an hour and a half, between 6.30 and 9 a.m., ·82 in. of R fell during a severe TS.—

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* See also *Met. Mag.*, August, 1906, p. 132.

† We do not usually record the shipwrecks of coasting craft, but the *Elizabeth Miller* was the first vessel the Editor was ever on board of, and the early fancy for the sea thus awakened led him, indirectly, to the study of the sea and thence to rain.

Wombwell (IX). Violent TS. Two miners sheltering under a beech tree were struck by L and killed.—*Redcar* (IX). TS, during which the Post Office was struck by L and set on fire.—*Seaham Harbour* (X).

"About eight o'clock in the morning there was a terrific peal of T, with a rending, tearing crash. A blue ball of fire travelled over the sky, and burst in the vicinity of Viceroy Street, just over the roof of two houses, Nos. 66 and 67, occupied by several working-class families in tenements. A clean slice was taken off the chimney stack, the bricks falling in all directions. The lightning danced about in the houses, fused gas-pipes and set fire to the gas. Down stairs in No. 67, Mrs. Ganum was struck, as by a strick [*sic.*], a stunning blow on the head, and, putting up her hand, pulled out from her hair a red-hot hair-pin."*—*Yorkshire Daily Observer.*

—*Ilderton* (X). Severe TS. Great damage by L in many places, but not here.—*Bamburgh* (X). Terrible TS and 1·86 in. of R.—*Fettercairn* (XVI). Prolonged TS which began some hours after a fall of ·93 in. of R. It was the first TS of the year.—*Montrose* (XVII). TS all day, and 1·08 in. of R.—*Aberdeen, Cranford* (XVII). Heavy TS, with 1·31 in. of R from 11 a.m. to 7 p.m.

AUGUST.

1st.—*Tavistock, Whitchurch* (V). R 1·85 in., of which 1·52 in. fell between 10 a.m. and 8 p.m.—*Blaenau Festiniog* (XI). TS and 3·17 in. of R.

1st and 2nd.†—*St. Davids* (XI). T and L, with 2·04 in. of R on 1st.

2nd.†—*Fulham, Edith Road* (I). TS from about 8 to 10 p.m., with brilliant L but little T or R.—*St. Pancras, Camden Square* (I). Heavy TS, with little R but a magnificent display of L lasting several hours. —*Haslemere, Lower Street* (II). This was just on the edge of the "Guildford" TS. No damage was done, but ·46 in. of R fell in about 15 minutes.—*Haslemere, Hazelhurst* (II). L was continuous for an hour, mostly from cloud to earth, but no damage here as at Guildford. In 8 minutes ·66 in. of R fell.—*Witley* (II). Terrific storm of H and wind, accompanied by T and vivid L. The storm began at 7.30 p.m., and from 8.15 to 8.40 p.m. the wind and H were remarkable. Lawns were covered two inches deep with what looked like lumps of sugar.—*Ewhurst* (II). Sharp L and heavy T with a

* We venture to doubt the accuracy of this assertion.—Ed. *B.R.*

† See also *Met. Mag.*, August, 1906, pp. 126-133; September, 1906, p. 150; January, 1907, p. 228; and *Quarterly Journal* of the R.Met.Soc., Vol. 33, p. 41.

strong gust of wind for a few seconds, but no damage.—*Godalming, Charterhouse* (II). Terrific TS with wind and violent H. In under 10 minutes ·77 in. of R fell and it is likely that some H bounded out of the funnel of the gauge.—*Abinger* (II). Great storm of T and L, but only a few drops of R. The L was incessant and wonderful, and lasted for three hours.—*Loseley* (II).

"The devastation in the beautifully-wooded Loseley Park was deplorable. It is no exaggeration to assert that considerably over a thousand trees have been more or less damaged, many showing distinct traces of the destructive work of the lightning. Along the drive from Portsmouth Road huge limbs of trees were strewn about the ground right up to the mansion, a distance of nearly a mile. About half-way up the drive was a field of wheat. The corn had been shocked to finish ripening, but so violent was the storm that the whole crop was completely beaten down. Huge trees, hundreds of years old, veritable giants of the forests, had been torn up by the roots and lay across the drive at very short intervals, while the limbs and boughs of others carpeted the ground. In many places the walks and drives were quite impassable. At the fine old Elizabethan mansion practically all the leaded and other lights were smashed by the violence of the storm."—Condensed from *Surrey Times*.

—*Guildford* (II).

"On the night of August 2nd a TS of tremendous violence broke over the town and district, and two lives were lost by falling trees. After a very hot day thick black clouds came up from the west, and by eight o'clock it seemed certain that Guildford would be visited by a heavy storm. By 8.15 the whole district was covered by the dense clouds. Lightning flashes, magnificent in their brilliance, followed each other with unequalled frequency. Although a few spots of rain fell earlier, it was not until about 8.30 that it began to rain in any quantity, and then it soon fell in great volume. The R was followed by H, which came down with great violence, the hailstones being as big as marbles. In various parts of the town masses of the hail were actually found as late as 9 and 10 o'clock next morning. The wind, which accompanied the rain and hail, was terrific in its violence, and it was impossible to stand against it. It rose suddenly, and abated almost as suddenly. But in the few minutes during which the hurricane lasted it was almost impossible to hear the thunder, so great was the roar of the wind and the rattle of the hailstones. It was this tornado of wind which unquestionably wrought the greatest damage throughout Guildford and the neighbourhood. Chimney stacks were hurled down on to the roofs of houses, in some cases crashing through them and in others ripping off the roofs and falling into the street. Trees innumerable were uprooted or broken off, telegraph poles fell, roofs of sheds were lifted right off and carried yards away, plate-glass windows were smashed, and tiles and slates flew in all directions. With all this the streets became flooded, for it was quite impossible for the surface water drains to carry off anything like the vast amount of water which descended in a few minutes, in addition to which rubbish and dirt was washed down and stopped up the

gratings. In some of the lower streets the water was a foot deep, while cellars and, in not a few cases, the ground floor rooms of houses were flooded. It was about 9 o'clock that the violence of the storm ceased, the rain quickly stopped and the wind dropped."—*Surrey Times.*

—*Guildford, Piccards Rough* (II). In the "Guildford storm" ·89 in. of R fell here in 8 minutes; much H must have escaped measurement.—*Guildford, Hillside* (II). Severe TS, during which 1·04 in. of R fell in 20 minutes.—*Guildford, Maori Road* (II). Almost unprecedented R; in about 17 minutes 1·01 in. of R fell.—*Guildford, Merrow* (II). Very heavy TS; the sky clouded over and the L became grand some little time before the storm broke in its fury. The R, H and wind were alarming and roads quickly became flooded. Fortunately, the storm at its height lasted only about 20 minutes, in which time ·64 in. of R fell.—*New Malden* (II). TS with large H-stones and ·33 in. of R in 13 minutes from 8.57 to 9.10 p.m. Much damage was done and several windows in the neighbourhood were blown in by the sudden wind.—*Faversham, Uplees Marshes* (II). Heavy TS with particularly vivid L. The earth here was struck, the L forming a hole a foot deep and 18 inches in diameter and throwing clods a distance of 10 or 12 yards.—*Guestling* (II). TS, with very vivid L and deafening T, but not enough R to lay the dust.—*Grayshott* (II). In the great "Guildford storm" 1·17 in. of R fell here in 20 minutes, the greater part in 15 minutes.—*Oving* (III). Heavy TS.—*Newport Pagnell* (III). Violent TS with H.—*Toot Baldon* (III). Heavy TS.—*Swerford* (III). Severe TS at 7.30 p.m. lasting only about 5 minutes; ·12 in. of R fell in 10 minutes. There was another storm, not so heavy, at 8 p.m., and much L all the evening.—*Peterborough* (III). Severe TS.—*Milton Ernest* (III). Most destructive H storm. The stones were so large that in some places they had not melted twelve hours afterwards.—*Thorney, Wryde* (III). Severe TS, which lasted from 8.30 to 11 p.m. Flashes of L occurred every 8 or 10 seconds. At Murrow H-stones weighing 1 oz. each fell.—*Lea Bridge Road* (IV). In less than 15 minutes ·44 in. of R fell, accompanied by a beautiful display of nature's fireworks.—*Colchester* (IV). Wonderful display of L at about 10.30 p.m. About 50 flashes were counted in one minute.—*Little Saxham* (IV). Incessant L from 9 to 11 p.m., and incessant T from 10 to 11 p.m.—*Rumburgh* (IV). Tremendous TS with almost continuous L all round for two hours. At 11.55 p.m. there was a fine lunar rainbow, nearly a semicircle, with the colours clearly visible.—*Yarmouth, Market Place* (IV). In

45 minutes ·85 in. of R fell.—*Stratford-sub-Castle* (V). During 12 minutes ·33 in. of R fell.—*Waltham-on-the-Wolds* (VII). TS with a brilliant electrical display from S.W. to E. from 9.10 to 9.30 p.m. *Irby-upon-Humber* (VII). Severe TS.—*Grimsby* (VII). Heavy TS from 10 to 12 p.m.—*York* (IX). Sudden TS at night, with fine effects of L and moonlight on the heavy clouds.—*Ilderton, Lilburn* (X). Severe TS, causing loss of life, and much damage on the Border.—*Millom* (X). TS at 9.30 p.m. and 1·09 in. of R during the day.—*Silloth* (X). Severe TS from 6.30 to 11.30 p.m.—*Haverfordwest, High Street* (XI). The R and the two TSS accompanying it are worthy of record. The first storm commenced at 4 a.m. with a noise like that of a mountain cataract descending the street, and exceeding in violence that of any R remembered by the observer, except the great fall in the TS of July, 1878, when 2·80 in. fell in about 3½ hours. The R lasted until 5.30 a.m. and none of any importance fell afterwards. At 9 a.m. 1·87 in. had fallen. Loud T and vivid L accompanied it. Another TS occured from 3 to 4.35 p.m.; the R was equally phenomenal in character; in the 1½ hours 1·37 in. fell. The lower parts of the town were like a lake, and the kitchen of this house, although 50 feet above the level of the river, was over ankle deep in water. Several man-holes belonging to the water-works discharged the surplus water into the streets and presented the appearance of fountains. The roar of the water was tremendous since most of the gradients in the town are heavy. This second TS was of about the same intensity as the one in the early morning. No damage was done by L. Although all did not fall at the same time the R in three hours was 3·15 in., the largest amount ever registered here in so small a space of time, in fifty-six years of observation.—*Gogerddan* (XI). Heavy TS.—*Criccieth, Talarvor* (XI). Between 9 a.m. and 9 p.m. 2·11 in. of R fell.—*Criccieth, Cefn Maen* (XI). Heavy TS and 2·28 in. of R.—*Beddgelert* (XI). Extremely heavy R within an area bounded by Moel Hebog, the southern side of Snowdon, the northern side of Garn Drws Coed and a line thence S.E. to a point a mile beyond Beddgelert. R commenced between 1.30 and 2 p.m., and by 5 p.m. the river Colwyn had overflowed and swept away Beddgelert Bridge. It is estimated that during 3 hours about 5 inches of R fell.—*Cargen* [*Dumfries*] (XII). TS from 6 to 8 p.m., and 1·62 in. of R in 12 hours.—*Lochmaben* (XII). A severe TS commenced at 6 p.m., and from 6.45 to 8 p.m. 1·10 in. of R fell. The total fall was 2·06 in.—*Duns* (XIII). A farmer at Mid Edrom was killed by L.—*Musselburgh*

(XIII). Severe storm of T, L and R.—*Perth* (XVI). Heavy TS from 7.30 to 9.30 p.m.—*Aberdeen* (XVII). Heavy TS.

2nd and 3rd.—*Burgh Castle* (IV). Heavy TS from 11.30 p.m. to 1 a.m., with unusually severe L continuing for two hours. Corn was damaged by the H and wind, and some trees were uprooted.—*Norwich* (IV). Severe TSS from 11.30 p.m. to 3.30 a.m.—*Findern* (VII). TSS, but with little R. An inn in this parish was struck by L and damaged.—*Llandudno* (XI). TSS, in the course of which 1·37 in. of R fell.

3rd.—*Woking, Northwood* (II). TS; from 8.40 to 9 a.m. ·27 in. of R fell.—*Castledermot* (XXI). A great TS.

7th.—*Ludlow, Ashford House* (VI). From 7.15 to 8.15 p.m. 1·06 in of R fell during a TS.

8th.—*Yarmouth, Market Place* (IV). In 1 hour 15 minutes 1·10 in. of R fell.—*Norwich* (IV). Three severe TSS.—*Swaffham* (IV). In 20 minutes ·85 in. of R fell.—*Burnham Overy Staithe* (IV). R 2·54 in. of which no less than 1·30 in. fell in rather less than 30 minutes.—*Waltham-on-the Wolds* (VII). A four-minute TS at mid-day, with heavy H, and L of various colours.—*Bolton Percy* (IX). A series of TSS. In 14 minutes ·40 in. of R fell.

9th.—*Thorney, Wryde* (III). TS from 4 to 9 p.m., with much sheet L.—*Biggar, Cambus Wallace* (XIV). R 1·78 in. in about two hours.

12th.—*Ballyconnell* (XXIII). Between 5.45 and 6.32 p.m. 1·16 in. of R fell.

13th.—*Warlingham* (II). Severe TS.—*Sulhamstead* (II). Local TS, with ·22 in. of R in 10 minutes.—*Irby-upon-Humber* (VII). TSS; between 3 and 4 p.m. ·85 in. of R fell.—*Grimsby* (VII). Severe TS at 4 p.m., with heavy H. In 40 minutes ·58 in. of R fell.—*Rochdale, Fieldhead* (VIII). In 30 minutes ·52 in. of R fell.—*Hull* (IX). TS during which lumps of ice fell measuring 1¼ by 1 inch causing serious damage.—*Briton Ferry* (XI). In 35 minutes ·50 in. of R fell.—*Lincluden House* [*Dumfries*] (XII). From 10 a.m. to noon ·71 in. of R fell, out of a total of 1·11 in.

14th.—*Killearn* (XV). In 30 minutes ·64 in. of R fell.

15th.—*Clanfield* (III). TS of exceptional violence, with vivid L.—*Yarmouth, Market Place* (IV). In 45 minutes ·52 in. of R fell.—*Tavistock, Whitchurch* (V). In 8 minutes, ending at 2 p.m., ·18 in. of

R fell.—*Banwell* (V). At 1.30 p.m. ·30 in. of R fell in 12 minutes.—*Rochdale, Fieldhead* (VIII). In 7½ minutes ·20 in of R fell.

16th.—*Winslow* (II). Heavy TS.

18th.—*Newcastle, Northumberland Road* (X). From 11.25 to 11.43 there fell ·43 in. of R in. 18 minutes; the heaviest fall recorded in 15 years.—*Coldstream, The Hirsel* (XIII). From 1 to 3 p.m. 1·10 in. of R fell.

22nd.—*Bulmer Lodge* [*Sudbury*] (IV). During a TS ·41 in. of R fell in 10 minutes.

25th.—*Hampson-in-Ellel* (VIII). A wind storm did much damage to orchards.

27th.—*Findern* (VII). Earthquake at about 6 a.m.—*Darley Dale* (VII). Earthquake at 5.55 a.m.; duration 5 secs.; direction E. and W.

31st.*—*Fulham, Edith Road* (I). Max. temp. 92°·1, the highest yet recorded in August.—*Norwich* (IV). Max. temp. 91°·5, the highest recorded up to this date.—*Ross* (VI). Max. temp. 91°·5, being considerably higher than any hitherto recorded so late in the year.—*Barnt Green* (VI). Shade temp. at noon 84°·0, at 1.30 p.m. 87°·5; max. 90°·5; at 5.15 p.m. 87°·0, at 5.30 p.m. 85°·0 and at 9 p.m. 71°·5. —*Worksop* (VII). Max. temp. 91°·8, the first reading above 90° since at least 1876.—*Bawtry* (VII). Max. shade temp. 94°·0

SEPTEMBER.

31st Aug.—Sept. 3rd.*—*St. Pancras, Camden Square* (I). The following were the temp. readings :—

	9 a.m.	Max.	Min.	Max. Solar Temp. (black bulb in vacuo).
	°	°	°	°
August 31	74·7	93·2	54·4	130·5
September 1	80·0	92·0	58·7	126·0
,, 2	73·5	94·0	57·6	131·5
,, 3	74·7	89·5	56·8	129·4

The only other occasions with maximum shade temperatures exceeding 90° in September were in 1868 with 91°·0 on 7th, and in 1898 with 91°·2 on 8th. The 9 a.m. temp. on 1st, 80°·0, was 3°·0 above the previous highest September reading.—*Ponders End* (III). Max. shade temp. 95°·0, 93°·3, 94°·2 and 90°·5 respectively. Such high readings as those of August 31st and September 2nd had never

* See also *Met. Mag.*, September, 1906, p. 153, and October, 1906, p. 170.

previously been recorded here. The air was also extraordinarily dry, the depression of the wet bulb reaching 25°.—*Throcking* (III). The highest recorded temp. hitherto was max. 91°·0, min. 63°·9, mean 76°·6, on August 18th, 1893. Thus, although the day temp. was exceeded, the mean temp. remained the record by a narrow margin. The accompanying values show the temp. for the four days, compared with the average of 1880—1906.

	Max.		Min.		Mean.	
	1906.	Aver.	1906.	Aver.	1906.	Aver.
Aug. 31	91·2	66·7	58·1	51·7	73·6	58·7
Sept. 1.....	88·1	66·2	62·7	50·6	74·8	57·6
,, 2.....	92·2	65·5	61·9	51·0	76·3	57·5
,, 3.....	88·4	65·6	62·2	51·0	74·7	57·5
Average (4 days)...	90·0	61·0	61·6	51·2	74·8	57·9

The solar thermometer in vacuo on September 2nd registered 132°·0.

—*Meltham* (IX). Max. temp. in Stevenson screen 84°·9, 87°·7, 88°·8 and 75°·2. Those of September 1st and 2nd exceed anything in the record of 28 years, the previous highest being 86°·9 on July 18th, 1901. Probably no such heat has been experienced in this district since 1868. The minima were in no way remarkable, but 70° at midnight on 1st was a very unusual temp.

1st.—*New Malden* (II). Max. temp. in shade 94°·5 ; black bulb in vacuo 135°·0.—*Thorney* (III). Between Thorney and Wryde many thousands of swallows congregated on the telegraph wires, covering the space between seven poles as thickly as they could sit. The early date for collecting was remarkable.—*Colmonell* (XIII). Max. temp. 84°·0, which is 1°·0 higher than any in September for at least 31 years.

1st and 2nd.—*Fulham, Edith Road* (I). Max. temp. 93°·4 and 93°·0, the highest readings ever recorded here.—*Weybridge* (II). Max. temp. 94°·5 on 1st and 94°·7 on 2nd.—*Wallington* (II). Max. temp. respectively 92°·1 and 92°·5.—*Enfield* (III). The progression of temp. was as follows :—

Hour	8	9	10	11	noon.	1	2	3	4	5	6	7	8
	°	°	°	°	°	°	°	°	°	°	°	°	°
Sept. 1	70	78	86	89	91	91	91	89	87	83	78	67	73
,, 2	67	76	83	88	90	91	91	92	90	88	83	69	74

During all the hot spell the night temp. went down to 55° or 56°.—*Worksop* (VII). Max. temp. 93°·0 each day.

1st—3rd.—*Haslemere* (II). Mean temp. 72°·2.

2nd.—*Epsom* (II). Max. temp. in shade 94°·6—*Totland Bay* (II).

Min. temp. 67°·0; this was exceeded once only in 20 years, 67°·1 being recorded on August 25th, 1899.—*Garstang* (VIII). The shade temp., after rising from 77°·0 at 9.30 a.m. to 85°·0 at noon and 88°·5 from 2.30 to 2.45 p.m., fell 14°·5 in 35 minutes from 2.55 p.m. under the influence of a sea-breeze.—*Dumfries* (XII). Max. temp. 85°·0.

2nd and 3rd.—*Norwich* (IV). Max. temp. respectively 92°·2 and 93°·0 the highest registered in 23 years.

3rd.—*Chelford* (VIII). Thick fog.

4th.—*Slough* (III). After the intense heat of the past few days foliage changed with great suddenness (in a few hours) from green to brown.

4th and 5th.—*New Malden* (II). R from 10.30 p.m. to 6.15 a.m. measuring 1·11 in.

13th.—*Kingston* (II). The Thames here and at Molesey and Sunbury was from 10 to 12 inches lower than the ordinary summer level on account of the hot dry weather.

16th.—*Bedford* (III). Severe TS from 3 to 6 p.m.—*Copdock* (IV). H yielding ·21 in. fell in ten minutes.

20th.—*Launceston* (V). Thick fog early.

22nd.—*Keswick* (X). Brilliant aurora, from 11.15 p.m., till shortly after midnight.—*Lynturk* (XVII). Brilliant aurora before midnight.—*Coolatore* (XXI). Fine auroral display at night.

27th and 30th.—*New Malden* (II). Dense morning fogs.

28th.—*London* (I). The first fog of the season.

28th and 30th.—*Epsom* (II). Early morning fogs.

29th.—*Loch Fyne* (XV). Great fog.

29th and 30th.—*Hull* (IX). Dense fog.

30th.—*St. Andrews* (XVI). Thick fog.

OCTOBER.

1st.—*Rochdale, Fieldhead* (VIII). In 7½ minutes ·16 in. of R fell.

3rd.—*Launceston* (V). Thick fog at night.

6th.—*Winslow* (III). Thick fog.

9th.—*Waltham-on-the-Wolds* (VII). A destructive wind rushed across the east of the village at 1 p.m., cut off branches of trees, and carried them 50 yards. Men and beasts were powerless against it.

10th.—*Shrewton* (V). Sharp TS at midnight.—*Clifton* (VI). Thick fog in the morning.

18th—19th.—*Ballingarry* (XX). Sharp frost killed all tender vegetables and flowers.

19th.*—*Aberdeen* (XVII). Heavy gale from N., with 1·26 in. of R from 9 a.m. to 3 p.m.—*Archiestown* (XVII). A sudden burst of R yielded 1·83 in. ; never had the streams been seen so much swollen, and much damage was done to roads.—*Drumnadrochit* (XVIII). R 2·56 in., the greatest fall on record in 21 years. Happily this fell on the hills as S, otherwise the flooding would have been destructive.

20th.—*Winslow* (III). Thick fog.

22nd.—*Rochdale, Fieldhead* (VIII). In 15 minutes ·34 in. of R fell.

25th and 26th.—*Clifton* (VI). Thick fog in mornings.

26th.—*New Malden* (II). Dense fog.

26th—27th.—*Dumfries* (XII). Steady R for about 17 hours, making the rivers Nith and Cluden in heavy flood.

28th.—*Weymouth* (V). In 15 minutes ·35 in. of R fell.—*Liverpool, West Derby,* (VIII). Continuous R from 5 a.m. to 0·30 p.m., when 1·28 in. had fallen, the greater part in a storm of great intensity between 10.40 and 11.30 a.m. There were also two sharp H-storms in the night, and in the morning heavy T but no L. Roads were quite flooded.—*Eskdale* (X). Severe T with constant showers of H.

29th.—*Dunmanway* (XX). Some S on mountains.—*Coolatore* (XXI). Heavy fall of S at night.

NOVEMBER.

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

3rd.—**Ballindoney* (XXI). Brilliant lunar rainbow at 9 p.m.

4th.—*Lowestoft, Corton* (IV). Loud T and vivid L.—*Waterford* (XX). T, L and H.—*Ballindoney* (XXI). T and L.—*Carrickmines* (XXI). Great TS and heavy R.—*Rathmines* (XXI). TS from 4 to 6 p.m. with much brilliant L but little R.—*Dublin* (XXI). Sharp TS.

6th.—Dense fog at *New Malden* (II)., *Gloucester* (VI)., *Hull* (IX)., *Belfast* (XXIII).

6th—9th.—*Winsford* (V). R commenced at 9 p.m. on 6th and continued all day on 7th and 8th, the amount measured for about 50 hours being 4·42 in. On 9th the Exe was overflowing and there was a high flood.

7th—9th.—*Boxworth* (III.) Continuous R for 36 hours, producing 1·92 in.

8th.—*Winslow* (III). R 1·67 in., resulting in a big flood, which covered all the waterside meadows.

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* See also *Met. Mag.*, November, 1906, p. 192.

11th.—*Leicestershire* (VII).

"The great downpour of rain has caused a remarkable flood in the Soar Valley (Leicestershire), which for twenty miles has been converted into a wide and deep lake, the flood-waters rolling over the tops of the hedges at many points. The roadways are impassable, and much damage has been done. Many villages have been isolated by floods in the Fen district."—*Daily Chronicle.*

—*Lancashire* (VIII). The gale was exceptionally severe. Trees were uprooted, hoardings blown down, and so many wires in South Lancashire were broken that the service was completely disorganised.

"A farmer named Wilkinson, walking beside the light railway which runs between Garstang and Pilling, was blown upon the metals in front of an approaching train. He made a great effort to get clear, but the engine passed over his leg."—*Daily Chronicle.*

12th.—*Blair Atholl* (XVI). A ripe raspberry was gathered in the open garden.

15th.—*Wryde* (III). A bouquet of roses grown in the open air was gathered.—*Church Stretton* (VI). Heavy S fell and remained on the high hills.

16th.*—*Epsom* (II). Aurora at 6 a.m.

17th—19th.—*Archiestown* (XVII). In three days 3·24 in. of R and sleet fell, but streams were hardly so much swollen as they were on October 19th.

22nd.—*Norwich* (IV). Max. temp. 60°·0, the latest "sixty" ever registered.—*Mull, Quinish* (XV). Max. temp. in shade 57°·0, the highest in November since 1881.—*Coupar Angus* (XVI). Max. temp. in shade 58°, min. 53°; the warmest November day in 26 years.

22nd—29th.—*Lochgoilhead* (XV). Owing to the mildness strawberries and raspberries were in flower.

24th.—*Sellindge* (II). Dense fog.

24th—28th.—*Milton Bryant* (III). Thick fog.

29th.*—*Epsom* (II). Aurora in N.W. and N. from 7 to 8.30 p.m.—*Dublin* (XXI). Coloured double lunar rainbow.

DECEMBER.

2nd.—*Worcester* (VI). Glorious sunset surpassing everything of its kind ever seen by the observer. It covered the whole sky, and defied detailed description.

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* See also *Met. Mag.*, December, 1906, p. 214.

5th.*—*Chelford* (VIII). R and H all day, with gale from N.W., and TS at 0.30 p.m.—*Goodwick* (XI). Severe gale in which the max. velocity of the wind registered by a Robinson anemometer was 82 miles per hour.—*Ballindoney* (XXI). Severe gale from N.W. and heavy S storm from 6 to 9 a.m.

10th.—*Lowestoft* (IV). S storm.—*Aberdeen* (XVII). Severe S storm, 4 inches of S lying in the streets.

12th.—*Liskeard* (V). T, L and H at 10 a.m. and 6 p.m.—*South Molton* (V). TS, in which 26 sheep on Narrocott Farm were struck by L and killed.—*Upper Midhope* (IX). T and L from 6 to 9 p.m.

12th and 13th.—*Seathwaite* (X). T and L.

13th.—*Lochgoilhead* (XV). Heavy S to the edge of the sea.

14th.—*Chelford* (VIII). Two inches of S in the night.

19th.—*St. Annes-on-the-Sea* (VIII). Thick fog.

19th and 20th—*Goldsborough Hall* (IX). Very foggy.

20th.—*Woolstaston* (VI). T and L from 6 to 7 p.m.

25th.—*Bampton* (V). So mild had the autumn been that a rose in full bloom was plucked on Christmas day.—*Stroud* (VI). A snowdrop in bud, 12 violets and 3 primroses were gathered.

26th—31st.—The S storms which occurred during this period are fully discussed in a special article in another part of the volume.

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* See also *Met. Mag.*, December, 1906, p. 201.

OBSERVERS' NOTES ON THE MONTHS.

JANUARY.*

ENGLAND AND WALES.

I. LONDON.—*Fulham, Edith Road.* A warm and wet month with mean temp. 3°·6 above the average and R 1·40 in. above the average, but there were many sunny days.—*St. Pancras, Camden Square.* Mild and excessively wet, the R having been only once exceeded and once equalled in January in 49 years. Mean temp. 41°·9, or 3°·8 above the average. Duration of sunshine 43·3 hours and of R 62·5 hours, the latter being 21·2 hours above the average.

II. SOUTH EASTERN COUNTIES.—*Haslemere.* Very windy with the highest R in the record. Mean temp. 37°·8, or 1°·5 above the average. —*Epsom.* Remarkable for excessive R and extreme mildness. Stormy weather was frequent, the wind reaching the force of a gale on 9 days. Mean temp. 41°·3.—*Totland Bay.* The wettest, and with two exceptions the warmest, January in 20 years. Duration of sunshine 90·5 hours.—*Petersfield.* R 5·84 in. above the average and the highest recorded in 16 years.—*West Dean.* Warm and wet with wind from S. and W. throughout except from 21st to 24th, when there was severe frost. No S or H. The R was the greatest for more than 25 years.—*Hartley Wintney* A black January, the wettest and mildest remembered here. Absence of frost and gales. Ozone occurred on 28 days with a mean of 4·1.

III. SOUTH MIDLAND COUNTIES.—*Throcking.* R 1·85 in. above the average of 25 years and by far the greatest in that period.—*Ampthill, Higham Bury.* R 1·49 in. above the average of 15 years.

IV. EASTERN COUNTIES.—*Copdock.* Extraordinarily mild, the mean temp. being 40°·9, and vegetation was dangerously forward. A welcome quantity of R helped to adjust the December deficiency, but ponds were still empty. The R fell largely at night and there were several beautiful days, the duration of sunshine being 82·6 hours.—*Norwich,*

* See also *Met. Mag.*, February, 1906, pp. 3, 19.

Eaton. Apparently the wettest January since 1867, the R being 2·26 in. above the average. Mean temp. 3°·4 above the average.

V. SOUTH WESTERN COUNTIES.—*Bishops Cannings.* R 1·77 in., and rain days 5, above the average.—*Wootton Bassett.* R 2·09 in. above the average of 16 years.—*Tavistock, Whitchurch.* Warm, damp and stormy, with R nearly double the average and falling on every day except 22nd and 23rd. The mean daily temp. varied from 48°·4 on 5th to 33°·4 on 20th. Gales on 10 days and TSS on 5.—*Wellington.* A great contrast to December, 1905, being a month of storms of wind, R, T, and H, but generally mild. The first 18 days were rainy and the total fall was nearly double the average.

VI. WEST MIDLAND COUNTIES.—*Birdlip Hill.* R 2·61 in. above the average.—*Worcester.* A rain spell from 1st to 18th produced 3·77 in. of R, but the latter part of the month was dry. By far the greater part of the R fell at night and there was an exceptional amount of sunshine. Temp. above the average.

VIII. NORTH WESTERN COUNTIES.—*Southport.* Warm, wet and stormy, with N.W. and W. winds and gales. Mean temp. 41°·7, or 2°·7 above the average. Duration of sunshine 42·4 hours, or 1 hour below the average. R 1·38 in. above the average; total duration 75·7 hours.—*Chatburn.* R 3·23 in. above the average of 17 years.

IX. YORKSHIRE.—*Upper Midhope.* Very wet and stormy till 20th with 5·50 in. of R; afterwards on the whole dry and stormy. The only touches of wintry weather were on 6th, 7th and 9th.—*Hull.* Extremely cloudy with occasional mist. Sunshine was recorded on 5 days only, totalling 7·2 hours.

X. NORTHERN COUNTIES.—*Ambleside, Skelwith Bridge.* R 6·27 in. above the average of 17 years.

SCOTLAND.

XV. WEST MIDLAND COUNTIES.—*Inveraray.* Mild, but wet and stormy, with few fine days and no two of these together.

XIX. NORTHERN COUNTIES.—*Altnaharra.* Remarkably wet, but with an extremely small fall of S for January. Heavy gales prevailed throughout.

IRELAND.

XX. MUNSTER.—*Dunmanway.* Exceptionally wet until the 18th; then fine and bright with little or no R, except at night.—*Miltown Malbay.* Very rainy with only two dry days, much H and some gales,

but no great storm. There was no S and only a few nights with light hoar frosts, but the weather was generally cold, save on a few days which were as fine as June.

XXI. LEINSTER.—*Ballybrack.* Damp and mild, being very wet for the first 20 days. R 1·68 in. above the average of 20 years.—*Rathmines.* Another addition to the long succession of mild Januaries, the mean temp. being 41°·7. The R was excessive, having been exceeded in 1895 only. The last few days were dry and springlike with snowdrops, crocuses and primroses in bloom.

FEBRUARY.*

ENGLAND AND WALES.

I. LONDON.—*St. Pancras, Camden Square.* Rainy and unpleasant conditions continued with little intermission until about 19th, but with considerably reduced temp.; the last week was, however, somewhat more genial. Mean temp. 38°·7, or 1°·1 below the average and 3°·2 below the mean for January, 1906. Duration of sunshine 67·9 hours and of R 52·2 hours.

II. SOUTH EASTERN COUNTIES.—*Crowborough, Steel Cross House.* Marked by constant changes in temp. and weather, variations taking place almost every two days, but the small range of temp. tended to check vegetation which at the beginning was becoming rather advanced. —*Wantage, Ardington.* Cold and uncertain with light R on most days and a few heavy showers. There were frequent sharp night frosts followed by quick thaws.

III. SOUTH MIDLAND COUNTIES.—*Throcking.* R ·25 in. above the average of 25 years. Mild throughout.—*Culham.* Wet and unsettled with a good deal of change of temp. R, though registered on 20 days, ·31 in. below the average.—*Trumpington.* R ·51 in. above the average of 40 years.

IV. EASTERN COUNTIES.—*Copdock.* Very unpleasant, damp and cold, in spite of 91 hours of sunshine. Vegetation was, probably fortunately, much retarded by the cold weather.

V. SOUTH WESTERN COUNTIES.—*Bishops Cannings.* R ·51 in., and rain days 6, above the average.—*Wootton Bassett.* R ·85 in. above the average of 16 years.—*Tavistock, Whitchurch.* Cold and wet with S on 14 days. The mean daily temp. ranged from 33°·3 on 6th to 44°·9 on 16th.

* See also *Met. Mag.*, March, 1906, p. 39, April, 1906, p. 50 and June, 1906, p. 90.

VI. West Midland Counties.—*Clifton.* A rainy month with occasional fine days. The weather was principally of the "westerly type," with frequent and sudden fluctuations of temp. and pressure.—*Birdlip Hill.* R ·31 in. below the average.—*Cirencester.* Cold with almost daily small falls of R and S and frequent changes. Much rough wind but no severe gales.—*Ross.* An unsettled month with frequent slight S. R only 60 per cent. of the average but rain days above the average.—*Mayfield House* [*Ashbourne*]. Very wet and stormy, with S on 10 days. The temp. was low throughout, the mean being 35°·5.

VII. North Midland Counties.—*Worksop, Hodsock Priory.* Bright, but unsettled and rather cold, with a good many morning frosts, and a rather heavy fall of S on the 27th.

X. Northern Counties.—*West Hartlepool.* Considerable wind throughout and constantly cool, but no S storms or great cold. The land was very dry, and ploughing was going on freely.—*Ilderton.* On the whole fine, but remarkable for continuance of strong winds. Slight frosts every night from 7th to the end, and frequent showers of S, H and R.

XI. Wales.—*Aberystwyth, Gogerddan.* Cold and wet with showers of S or R through the day, and slight frosts every night, keeping the ground wet and in bad order for crops.

SCOTLAND.

XVI. East Midland Counties.—*St. Andrews.* Cold and dry as a whole, with a large number of beautiful sunny days and some lovely sunsets.—*Balruddery.* Cold and very changeable especially during the mornings. There was a good deal of frost. Wind mostly from N. and W.

XVIII. North Western Counties.—*Inverpolly.* Stormy from beginning to end, in fact the roughest month known for 27 years.

XIX. Northern Counties.—*Altnaharra.* Very boisterous, yet with much sunshine. Heavy S began on 8th and continued to the end of the month.

IRELAND.

XX. Munster.—*Dunmanway.* The first 8 days and the last 4 were fine and bright. Cold wild weather from 9th to 14th with heavy S and H showers. From 14th to 24th was changeable, being fine as a rule in the daytime, with heavy R after 4 p.m.

XXI. Leinster.—*Ballybrack.* An exceptionally cold month, with

R ·99 in. below the average of 20 years.—*Rathmines.* The most remarkable feature was that the shade temp. failed to reach 50°; this has been the case in only three previous months on the record. Frequent slight frosts occurred, but no low temp. was recorded, the mean being 37°·8. Quiet and cloudy weather prevailed generally, and S fell on one day only.

XXIII. ULSTER.—*Banbridge, Milltown.* R ·32 in. above the average of 40 years.

MARCH.*

I. LONDON.—*St. Pancras, Camden Square.* The first and last weeks were fine and sunny, but in the intermediate period R or S fell on practically every day in small quantities, with much high wind. The temp. was for the most part somewhat below the normal, but the mean was 42°·3 or 0°·2 above the average. Duration of sunshine 99·4 hours and of R 43·5 hours.

II. SOUTH EASTERN COUNTIES.—*Haslemere.* Mild and fair till 10th, then increasingly cold till the end. Frequent R but the total was ·50 in. below the average. S.W. winds till 12th and from 15th to 19th, then N. and N.E. to the end.—*Abinger.* Cold and winterly with frequent S storms and intervals of warm sunshine. Vegetation was in much the same condition as in February and the ground cold and wet for cropping.—*Caterham Valley.* Wet fogs early in the month and N. and N.E. winds in the latter half. S and low temp. were frequent and the ground was damp throughout.—*New Malden.* Little R, but much cloud from 18th to the close with frequent small falls of S and sleet and great variations of temp.—*Sevenoaks, Plaxtol.* The absence of R in March, mentioned in the press, was not experienced here. From an agricultural point of view it was a most ungenial month, and having so many wet days after the very wet January and February, farm work got much in arrears.—*Hailsham, Magham Down.* A month of frequent showers of R or S and, in the latter half many slight or moderate frosts. The wind was mostly S.W. in the first half and N.W. or N.E. in the latter.—*Crowborough, Steel Cross House.* A characteristic March with many changes of weather and temp. In the last fortnight there was a return to winter with S and low temp. and vegetation received a wholesome check.—*Hartley Wintney.* The first four days were spring-like, but afterwards it was a most winterly month with keen biting N.E. winds, and S showers almost daily until 28th.

* See also *Met. Mag.*, April, 1906, pp. 50, 59, and June, 1906, p. 90.

The last few days were dry but cold, with absence of fog and severe frost.—*East Garston.* An exceptional amount of rough cold N. and N.E. wind with frequent slight falls of S, and several days of almost summer weather interspersed.—*Maidenhead.* Bright days and frosty nights from 1st to 9th, then very gloomy and squally to the end, with S, sleet and R from 10th to 26th. Mean temp. 38°·2 or 1°·2 below the average of 10 years.

III. South Midland Counties.—*Harrow Weald.* R ·59 in. below the average of 15 years.—*Throcking.* R ·13 in. above the average of 25 years.—*Slough, Upton.* Very bleak and dry, with constant small falls of S, sleet or H towards the close. There were three days, 6th, 7th and 17th, with high temp. but several pinching ground frosts catching the blossom.—*Culham.* A month of much wind, chiefly N., N.E. and N.W., and many cold nights. There was great variation of temp., like alternate summer and winter.—*Blisworth.* A stormy month with several wintry days and large S falls especially on 12th and 24th to 26th.—*Trumpington.* R ·33 in. above the average of 40 years.

IV. Eastern Counties.—*Colchester, Lexden.* A cold month, especially after 18th, when there were continuously N. or N.E. winds and frequent S squalls.—*Copdock.* As wretched a month as March could be and bitterly cold throughout except on three beautiful days, 6th, 7th and 17th. Wind blew from the southern quarter on 6 days only. Mean temp. 40°·9.—*Norwich, Eaton.* The mean temp. was 0°·5 above the average owing to bursts of warmth from 4th to 7th and 15th to 17th, but it was otherwise ungenial, cold and winterly, with S on eleven days.—*Cottishall.* Until the middle of the month there were great variations of temp. The wind then got into the northerly quarter, the weather became cold and blusterous and a considerable amount of S fell.

V. South Western Counties.—*Tavistock, Whitchurch.* Showery with R below the average and about the average temp. The mean daily temp. varied from 51°·1 on 6th to 33°·4 on 22nd; N.E. winds were most prevalent.—*Wellington.* A month of variable weather and violent changes. The first part was fairly mild but from 18th it was cold almost to the close and very rough at times. R about ·50 in. below the average.

VI. West Midland Counties.—*Birdlip Hill.* R ·72 in. below the average.—*Cirencester, Further Barton.* After a fine and mild beginning two unusually hot days on 6th and 7th ushered in wintry conditions lasting till 14th. Another hot day, the 17th, was again the signal for

wintry weather which lasted till the end of the month and was bitter in the extreme. The R was exactly equal to the average.—*Mayfield House* [*Ashbourne*]. A changeable month, the first half being warm and very wet with S.W. winds and the second half cold and dry with strong N.E. winds. Mean temp. 40°·3.—*Worcester.* A dry month; the first half was warmer than usual and vegetation was getting forward, but a cold spell set in on 19th with N.E. winds and sharp frosts. Only ·08 in. of R fell after 15th.

VII. North Midland Counties.—*Worksop, Hodsock Priory.* Windy and rather dry with normal temperature and a moderate excess of sunshine. There were several light falls of S, and some cold wind with S showers in the fourth week.

VIII. North Western Counties.—*Southport.* Mild and rainy during the earlier half, but cold and dry afterwards. Mean temp. 41°·1 or 0°·6 below the average. Duration of sunshine 149·8 hours or 25 hours above the average.—*Chatburn.* R ·81 in. above the average of 17 years.—*Broughton-in-Furness.* The first half was wet with westerly winds, but some sharp frosty nights. The second half was dry with cold E. and N.E. winds and slight S showers.

X. Northern Counties.—*Ilderton.* From 7th it was cold and stormy with frequent S and H. Severe frost on 12th and 13th, but milder from 28th to the end.

XI. Wales.—*Llanfrechfa Grange.* Westerly winds prevailed till 20th with some showers, mostly at night. Mild till 19th and colder afterwards, but dry with sharp N.E. winds.—*Haverfordwest.* A cold month, wet and stormy till 19th, and generally dry afterwards. Duration of sunshine 139·8 hours. Agricultural operations and vegetation were backward.

SCOTLAND.

XIII. South Eastern Counties.—*Musselburgh.* Changeable with variable winds, and a spell of severe frost from 8th to 14th. Mean temp. 38°·0.

XVI. East Midland Counties.—*St. Andrews.* The usual cold March winds, and a great deal of sunshine. R much below the average.—*Balruddery.* Dry, cold and changeable with wind mostly from N. and N.W. Duration of sunshine 141·7 hours.

XIX. Northern Counties.—*Altnaharra.* The month opened stormy and cold with S, and continued boisterous with fair weather at intervals. The end was fine and mild with bright sunshine.—

Bettyhill. There were two short but severe S storms between 1st and 3rd, and between 11th and 13th, and the weather was generally cold and stormy except the last few days, which were fine and mild.

IRELAND.

XX. MUNSTER.—*Miltown Malbay.* The first half had the severest and most inclement weather of the year, the second was cold and dry, and good for tillage.

XXI. LEINSTER.—*Ballybrack.* R ·44 in. below the average of 20 years. Cold W. winds injurious to vegetation.—*Rathmines.* The early part was very changeable, opening mild with drizzle, succeeded by several beautiful spring-like days, and a short period of intense cold with S, H and sleet. On 14th there was a sudden change to warm, blustery conditions, and on 24th a bitterly cold period with N.E. winds and frequent H and S. The month closed with anticyclonic conditions of a peculiarly autumnal type. Vegetation made little progress.—*Dublin.* The old proverb "March-many-weathers" held good. It was more or less mild till 11th, when a brisk fall of temp. took place. Warm from 14th to 17th, and then cold with strong N.E. winds.

XXIII. ULSTER.—*Banbridge, Milltown.* R ·44 in. below the average of 40 years.—*Belfast.* An average March as to R, but warm and genial in character and most promising for the land.

APRIL.*

ENGLAND AND WALES.

I. LONDON.—*Fulham, Edith Road.* A very dry month, and remarkably sunny, with large diurnal range. Mean temp. just the average.—*St. Pancras, Camden Square.* Apart from the rather low temp. a fine month, with an extraordinarily large amount of sunshine and practically no R until the last week. Absolute drought from March 27th to April 12th, and partial drought from March 24th to April 26th, 34 days with ·34 in. of R. Mean temp. 47°·2, or 0°·9 below the average. Duration of sunshine 192·9, and of R 9·9 hours.

II. SOUTH EASTERN COUNTIES.—*Frimley Green.* The first part was so dry that heath fires were of almost daily occurrence, but although at first summer seemed to have arrived, the weather afterwards turned cold again, and frosty nights, S and H showers followed.

* See also *Met. Mag.*, May, 1906, pp. 61, 62, 64, 79.

The wind kept mainly in N.E. and E.—*Epsom.* Exceedingly dry, absolute drought prevailing from March 29th to April 17th. Warm between 11th and 13th, but after 18th the temp. remained consistently low. Mean temp. 45°·6.—*Wallington.* R ·75 in. below the average of 25 years. Duration of sunshine 216·9 hours (Jordan) a figure exceeded only in 1892 and 1893. The cold winds and frosts did great damage to fruit blossom.—*Tenterden.* Cold, especially at night, but a fine Easter was preceded by several quite hot days. Absolute drought from March 27th to April 17th. Duration of sunshine 244 hours (Jordan).—*Sellindge.* The first half was rainless, with an unusual amount of sunshine, hot days and cold nights. The second half was changeable and unpleasant with destructive frosts, S, H and strong winds.—*Crowborough, Steel Cross House.* From March 27th until April 18th no R was registered and during this period there was a great amount of sunshine, but the temp. kept low generally, and frosts, destructive to blossom, occurred on many days. After 18th there was a change to cold unseasonable weather checking vegetation.—*Totland Bay.* A bright, cold month with dry atmosphere, the relative humidity averaging 71%, the lowest in April for 20 years. The night temp. was also the lowest during that period. Duration of sunshine 246·4 hours.—*Wellington College.* R ·73 in. below the average of 24 years.

III. South Midland Counties.—*Harrow Weald.* R ·93 in. below the average of 15 years. Absolute drought from March 29th to April 17th.—*Slough, Upton.* With the exception of a few warm days at Easter it was an exceptionally unkind month. Cutting and drying N. winds, keen night frosts and several days of powerful sunshine combined with actual default of R to make the drought a fourfold one. Cherries and plums were cut off, rose trees badly frost-bitten and vegetation of all kinds severely checked.—*Oxford.* An unusual combination of coldness and dryness. A partial drought of 35 days with ·28 in. of R from March 27th included an absolute drought of 17 days from March 27th to April 12th. The mean min. temp. for the month was 31°·0.—*Ampthill, Higham Bury.* R ·45 in. below the average of 15 years.—*Trumpington.* R ·54 in. below the average of 40 years.

IV. Eastern Counties.—*Copdock.* Absolute drought for 22 days ended on 17th and from 5th to 17th was a glorious spell of weather though with cold nights. Afterwards it turned cold again with severe frost on many nights. The duration of sunshine for the month was no less than 239 hours, or 100 hours more than in April, 1905. On

3 days only did the wind get out of a northerly or easterly quarter.—*Rendlesham Hall.* Fine and cold with no R up to 18th and only a slight fall after. There were severe and numerous night frosts with cold N. to E. winds.

V. South Western Counties.—*Bishops Cannings.* R ·74 in., and rain days 1, below the average.—*Wootton Bassett.* R ·92 in. below the average of 16 years and the lowest in that period.—*Tavistock, Whitchurch.* Very dry and fine with high bar., temp. slightly below the average and R less than half the average. A partial drought of 39 days with ·36 in. of R ended on April 23rd. The mean daily temp. varied from 56°·4 on 11th to 39°·1 on 19th.—*Polapit Tamar* [*Launceston*]. Unusually dry with cold harsh winds and low night temp. A partial drought lasted from March 14th to April 23rd, 41 days with ·36 in. of R.—*Wellington.* The first 20 days were generally dry and fine with cold nights and the last 10 days unsettled and cold. R about ·75 in. below the average.—*Mells.* The coldest April since 1892 and the driest since 1896.

VI. West Midland Counties.—*Cirencester, Further Barton.* Magnificent dry summer weather till 16th, but thence to the end extremely cold and wintry with almost daily showers of H and S. Total R less than half the average.—*Bishops Castle.* H, R, S, wind, T, L, drought, heat, frosts and fogs together formed a record for this fickle month.—*Church Stretton, Woolstaston.* Exceptionally dry and cold with unprecedented frost. S and H on the last 10 days. Early potatoes, which were just appearing, were quite cut off.—*Mayfield House* [*Ashbourne*]. Absolute drought from March 27th to April 11th, but the rest of the month was changeable and stormy with TSS on 12th and 13th and heavy S on 23rd, 25th and 26th. The nights were cold throughout, but there were several hot days in the middle. Mean temp. 42°·8. N.E. winds prevailed.—*Worcester.* A trying month with great variations in temp. Severe night frosts, but a good proportion of sunshine. An absolute drought of 16 days came to an end on 11th and a partial drought of 36 days with ·29 in. of R on 20th.

VII. North Midland Counties.—*Nottingham.* Dry and sunny with great changes of temp. An absolute drought of 24 days ended on 19th. Mean temp. 45°·5.—*Worksop, Hodsock Priory.* Unusually bright and dry with large daily range of temp. April, 1893, excelled it in all these respects and April, 1890, had rather less R, but no previous April had such a low mean daily min. temp., which was very little above the average for January.

VIII. NORTH WESTERN COUNTIES.—*Chatburn.* R 1·20 in. below the average of 17 years.—*Barrow-in-Furness.* Slight R fell on two days only from March 18th to April 15th, but the remainder of the month was showery almost daily with H, sleet and slight S. The first half was sunny and warm though with E. winds, and the latter half colder with W. and N.W. winds.

IX. YORKSHIRE.—*Goldsborough Hall.* A cold and dry month, with frost on 26 days, being particularly keen on 19th and 26th. The shade temp. reached 60° on 6 days only.—*Middlesbrough, Ormesby.* Very small R, which was much wanted as springs were low. On the whole cold, especially towards the end, but hot days from 3rd to 16th. Grass was backward.—*Hull.* Extremely variable throughout, with many bright periods and with moderate R. Some sharp night frosts. Duration of sunshine 148·3 hours.

X. NORTHERN COUNTIES.—*Ilderton.* No R fell from March 25th to April 15th, the first half of April being fine, but too dry. The latter half had frost every night, and S and H nearly every day.—*Ambleside, Skelwith Bridge.* R 1·86 in. below the average of 17 years.

XI. WALES.—*Llangynog, Coomb.* For the most part the month was too dry, but the R of the last week did an enormous amount of good. This was accompanied by heavy H showers, and bitterly cold winds.

SCOTLAND.

XIII. SOUTH EASTERN COUNTIES.—*Lilliesleaf, Riddell.* Cold E. and N.E. winds after the first week, and little R. It was splendid weather for agriculture and all ploughing and sowing were done, so that only R and warm weather were wanted. There was very little destruction to fruit buds.—*Musselburgh.* From March 26th to April 15th only ·03 in. of R fell. The first half of the month was generally bright and sunny, but the latter half variable and colder. Changeable and generally strong wind. Mean temp. 42°·9.

XVI. EAST MIDLAND COUNTIES.—*St. Andrews.* Many bright sunny days with cold winds, occasional cold showers and frequent ground frosts. R was badly wanted, both for crops and water supply.

XVII. NORTH EASTERN COUNTIES.—*Lynturk.* The first half was dry and genial, making a fine sowing season, but a change brought cold and ungenial weather, with repeated S till the end.

XVIII. NORTH WESTERN COUNTIES.—*Drumnadrochit.* The first 12 days were fine if cold, but the latter part unusually cold with frequent S, and vegetation was backward.

XIX. NORTHERN COUNTIES.—*Altnaharra.* The first part was exceptionally warm and bright, but the month closed with keen night frost and heavy local showers of S.—*Watten.* The first half was dry, clear and sunny, the latter cold, wet and inclement with frost on most nights, sometimes severe, and light S.—*Castletown.* The first half was mild and dry, and farmers were busy sowing oats. On 15th the weather changed with a strong S.W. gale, and after 17th there was ground frost every night, and S on ground in the mornings, from 18th to 26th. There was however a fair amount of sunshine.

IRELAND.

XX. MUNSTER.—*Dunmanway.* Fine, bright and warm till 12th, but cold winds, mostly N. and N.E. and heavy frosts afterwards.—*Miltown Malbay.* Cold and inclement with frost, squally weather and H showers; N. and N.E. winds prevailed and vegetation made no progress.

XXI. LEINSTER.—*Ballybrack.* R ·57 in. below the average of 20 years. Vegetation suffered much from night frosts and cold winds.—*Rathmines.* The first and second halves of the month were totally dissimilar. Until Easter, dry and usually brilliant weather prevailed with great range of temp., but December-like conditions prevailed till the end, with N. and N.E. winds, low max. temp., and frequent showers of R, H, sleet and, on one occasion, S. On no fewer than 11 days did the temp. fail to reach 50°, there were 3 nights only with min. above 40°, and ground frosts occurred on 26 occasions, which must be a record for April.

XXIII. ULSTER.—*Banbridge, Milltown.* R ·48 in. above the average of 40 years.

MAY.*

ENGLAND AND WALES.

I. LONDON.—*St. Pancras, Camden Square.* The R was light but fairly frequent and sunshine deficient, ten days having less than one hour each. Total duration of sunshine 124·7 hours, and duration of R 28·4 hours. Mean temp. 54°·5, or 0°·5 above the average, due chiefly to a few warm days; for the greater part of the month cool winds kept the temp. low.

II. SOUTH EASTERN COUNTIES.—*Epsom.* A cloudy month with

* See also *Met. Mag.*, June, 1906, pp. 81, 92, 99, and August, 1906, p. 135.

considerable variation of temp. The shade max. reached 70° on 5 days but sharp frosts occurred on 18th and 19th. Mean temp. 53°·0. —*Wallington.* Cloudy and windy with a low mean bar. R ·62 in. below the average. Mean temp. 53°·0, or about equal to the average. Duration of sunshine 166·9 hours (Jordan), being 32 hours or 6 per cent. below the average.—*West Dean.* Cold and harsh with prevalence of E.N.E. winds, frequent H, sleet and cold R. The temp. was particularly low from 1st to 6th, from 10th to 12th, and from 16th to 26th. Vegetation backward.

III. South Midland Counties.—*Harpenden, Rothamsted.* R ·80 in. below the average, but spread over a larger number of days than usual. The mean temp. was about 0°·5 above the average, but there were several rather low night minima and at times cold winds prevailed. Duration of sunshine 48 hours below the average.—*Throcking.* R ·74 in. below the average of 25 years.—*Pitsford.* Cold winds from N. and N.E. for the greater part of the month and several sharp frosts. Mean temp. 52°·0, R ·75 in. below the average.—*Trumpington.* R ·57 in. below the average of 40 years.

IV. Eastern Counties.—*Copdock.* An uneventful month, but notably dull in spite of the small R. The duration of sunshine was 176 hours, or 63 hours less than in April. Mean temp. 53°·3. No low night temp.

V. South Western Counties.—*Bishops Cannings.* R ·94 in., and rain days 5·5, above the average.—*Tavistock, Whitchurch.* Wet, damp, foggy, cloudy and cold. The daily mean temp. varied from 41°·8 on 1st to 60°·3 on 8th. S.W. winds were most prevalent.—*Princetown, Huccaby House.* The R was well distributed and vegetation was consequently much more promising than in 1905. Pastures were much better and the prospects of a good hay harvest greatly improved.

VI. West Midland Counties.—*Clifton.* Variable and unsettled weather throughout with cold spells from 1st to 4th and from 21st to 23rd. Dry and warm from 8th to 15th, but R nearly every day in the last fortnight, the total being ·33 in. above the average.—*Cirencester, Further Barton.* The long, and generally cold, droughty period which had lasted since the middle of March did not end till May 23rd. The R of May was almost the average. It was probably as backward a spring as can be remembered.—*Ross.* The first five days were cold with ground frosts and frequent R. Then followed a fortnight of dry weather, but with only a few warm days and the remainder was cloudy and unsettled. Vegetation was in consequence backward.

VII. NORTH MIDLAND COUNTIES.—*Grimsby.* More like a typical April than May, being generally cool, with much N. to E. wind. No heavy R but showery at times.

VIII. NORTH WESTERN COUNTIES.—*Broughton-in-Furness.* Dull and cold with a large amount of cloud and a record R during May for 34 years.

IX. YORKSHIRE.—*Middlesbrough, Ormesby.* Cold with heavy R, but sunny. Springs were low, and grass and everything backward.

X. NORTHERN COUNTIES.—*Newcastle, Town Moor.* The R was the greatest registered in May since records commenced in 1868.—*Pawston,* [*Coldstream*]. The wettest May on record. Many farmers in the district had their barley crops utterly ruined by the clover growing too quickly and choking the grain.—*Beal, Barmoor Castle.* Remarkably heavy R amounting to 8·25 in. in the month. About fifty sheep were drowned during floods in the neighbourhood.—*Ambleside, Skelwith Bridge.* R 6·33 in. above the average of 17 years.

XI. WALES.—*Haverfordwest.* Cold and wet with some low night temp., and sunshine below the average. Vegetation was backward and injured by strong winds. Duration of sunshine 119·7 hours.

SCOTLAND.*

XII. SOUTHERN COUNTIES.—*Cargen* [*Dumfries*]. The wettest May yet recorded. The R accompanied by cold N. and E. winds, was extremely hurtful to vegetation, and crops generally except hay showed poor progress.—*Lochmaben, Esthwaite.* R 3·59 in. above the average of 14 years, and 1·97 in. greater than the previous highest record.

XIII. SOUTH EASTERN COUNTIES.—*Musselburgh.* The wettest month since October 1903, with little sunshine and cold winds.

XIV. SOUTH WESTERN COUNTIES.—*Colmonell.* R ·87 in. in excess of the previous heaviest R in May in 30 years.

XVI. EAST MIDLAND COUNTIES.—*St. Andrews.* A cold and wet month, with the largest R in any month since observations began in 1901. Much R, however, fell during the night, and there were several fine days. Vegetation was backward, and many young trees were injured by the cold winds.

XVIII. NORTH WESTERN COUNTIES.—*Inverpolly.* The coldest and most unseasonable May ever remembered.

XIX. NORTHERN COUNTIES.—*Bettyhill.* A month of almost continuous wet, cold and sunless weather.

* See "The Rainfall of Scotland for May, 1906," by A. Watt, in *Journal,* Scot.Met.Soc. 3rd ser. No. xxiii. p. 1.

IRELAND.

XXI. LEINSTER.—*Ballybrack.* There were no night frosts, but it was a cold and ungenial month and vegetation was very backward. R ·01 in. above the average of 20 years.—*Rathmines.* One of the worst Mays ever remembered. The amount of cloud was unprecedented, not only for May, but for any month, and although the amount of R was not large, it fell almost daily and was frequently accompanied by harsh cold winds.

XXIII. ULSTER.—*Banbridge, Milltown.* R 2·08 in. above the average of 40 years.

JUNE.*

ENGLAND AND WALES.

I. LONDON.—*Fulham, Edith Road.* Though the total R was large, being 1·78 in. above the average, yet it practically all fell on three days, making it a very fine month. The temp. was very near the average.—*St. Pancras, Camden Square.* Fine, with equable temp., except for short cold periods on 1st and 2nd, and 13th to 15th. Mean temp. 60°·1 or 0°·3 below the average; the mean daily temp. exceeded 70° on 22nd only. Of the R, 76 per cent. fell on the night of 28th and morning of 29th. Duration of sunshine 216·1, and of R 16·8 hours.

II. SOUTH EASTERN COUNTIES.—*Wallington.* R ·48 in. above, and rain days 4 below, the average. Duration of sunshine (Jordan) 236·7 hours being 34·5 hours, or 7 per cent., above the average.

III. SOUTH MIDLAND COUNTIES.—*Harrow Weald.* R ·80 in. above the average of 15 years.—*Harpenden, Rothamsted.* R 1·22 in. above the average, but out of a total of 3·61 in., 3·06 in. fell on 1st and 28th. The mean temp. was below the average, owing chiefly to cold northerly winds during the first half. Duration of sunshine 240 hours.—*Ampthill, Higham Bury.* R 1·79 in. above the average of 15 years.—*Trumpington.* R 1·55 in. above the average of 40 years. —*Stretham.* No previous June in 40 years had so heavy a fall of R.

IV. EASTERN COUNTIES.—*Colchester, Lexden.* Much E. wind with bright days and cold nights. Some hot days in the third week. Very dry till the remarkable storm of 29th.—*Copdock.* A dry unpleasant June. The drought was serious till the heavy R of the last week. The wind was northerly or easterly practically throughout. Mean temp. 57°·6.

* See also *Met. Mag.*, July, 1906, pp. 105, 119, and *Quart. Journ.* R.Met.Soc., January, 1907, p. 5.

Duration of sunshine 226 hours. Frost on grass occurred on 3 occasions.

V. South Western Counties.—*Bishops Cannings.* R 1·05 in. above, and rain days 3 below, the average.—*Wootton Bassett.* R 1·36 in. above the average of 16 years.—*Tavistock, Whitchurch.* Dry but variable with about average temp. The daily mean temp. varied from 49°·3 on 1st to 65°·4 on 23rd, and the shade max. rose to or above 70° on 8 days. S.W. wind was most prevalent.

VI. West Midland Counties.—*Cirencester, Further Barton.* A remarkably fine month especially in the early part. The R almost all fell on 3 days, only 9 rain days being recorded, yet the total R was nearly an inch above the average.—*Upton-on-Severn.* A beautiful month, very hot from 3rd to 11th. There were a few days with heavy R, especially 16th and 28th. The rhododendron blossom formed a mass of bloom such as was seldom seen before.

VII.—North Midland Counties.—*Grimsby.* On the whole a fine June with abundance of sunshine, but extremely cold days interspersed with the hot weather.

VIII. North Western Counties.—*Broughton-in-Furness.* No R fell from 2nd to 13th inclusive, with warm weather, and it continued fine with occasional showers till 19th. Then wet or showery to 26th and afterwards fine. The second half was much cooler than the first and the mean temp. was 1°·0 below the average.

X. Northern Counties.—*Ambleside, Skelwith Bridge.* R 1·35 in. below the average of 17 years.

XI. Wales, &c.—*Brecon, Penoyre.* The first half was warm with plenty of sunshine, but later the weather became generally dull and wet.—*Douglas.* A dry month with temp. on the whole slightly above the average, but low at the beginning. Extremely warm from 7th to 14th, after which it was showery and ungenial with particularly cold nights, blighting vegetation and destroying the little fruit that May had spared.

SCOTLAND.

XIII. South Eastern Counties.—*Musselburgh.* Until the afternoon of 12th it was generally fine and sunny, but from that date dull and variable with much E. wind and tidal mist from 12th to 18th. After 18th the wind varied from S.W. to N.W. Mean temp. 56°·0.

XVI. East Midland Counties.—*St. Andrews.* Some lovely days with temp. much higher than is usual in June, but with sudden

changes in the afternoons to cold E. wind and fog. The last week was chilly and unsettled. Crops and gardens were well advanced.

XVII. North Eastern Counties.—*Lynturk.* Dry and fine weather throughout with R not much more than one-third of the normal amount, and much needed at the end of the month.

XVIII. North Western Counties.—*Drumnadrochit.* R ·96 in., and rain days 1, below the average of 20 years.

XIX. Northern Counties.—*Bettyhill.* With the exception of the last week the weather was beautifully fine and rainless, forming a complete contrast to May.—*Watten.* Mild and fine generally except in the last week when it was colder. It was the driest month since August, 1880.

IRELAND.

XX. Munster.—*Cork.* R 1·17 in. below the average.

XXI. Leinster.—*Ballybrack.* R 1·07 in. below the average of 20 years. Temp. was low and vegetation backward.—*Rathmines.* A remarkable anticyclone with almost stationary bar. prevailed till 14th with much brilliant weather, and no R from 2nd to 14th inclusive. A few days of gloomy, bleak weather were followed by a warm but showery and unsettled period, and the end was cool, breezy and unseasonable, though R and mean temp. were nearly the average.

XXIII. Ulster. — *Banbridge, Milltown.* R 1·28 in. below the average of 40 years.

JULY.*

ENGLAND AND WALES.

I. London.—*Fulham, Edith Road.* A beautifully fine month, warm and very dry. R 1·47 in. below the average. Brilliantly sunny throughout.—*St. Pancras, Camden Square.* Splendid weather prevailed throughout, with high temp., a large amount of sunshine and pronounced absence of R. Mean temp. 64°·9, or 1°·6 above the average. Duration of sunshine 235·9 hours and of R 8·6 hours.

II. South Eastern Counties.—*Epsom.* Fairly uniform weather throughout, with a marked absence of R and electrical disturbances. The shade max. temp. reached 80° on 6 days. Mean temp. 63°·5.—*New Malden.* A glorious month, having abundance of bright sunshine and no sunless day. It was also very dry and the first half calm.

* See also *Met. Mag.*, August, 1906, p. 139, and *Quart. Journ.* R.Met.Soc., January, 1907, p. 5.

Mean temp. 65°·3.—*Tenterden.* Another dry and warm July; gardens were burnt up and grass lands getting brown. Duration of sunshine 264·2 hours (Jordan).—*East Grinstead.* R 1·34 in. below the average of 16 years.—*Hartley Wintney.* A glorious summer month, being very dry with little wind and moderate temp. The second week was more cloudy but with splendid starlight nights and a little early morning fog. Slight and distant TSS in the third week. No ozone was recorded throughout.—*Maidenhead.* Hot and dry weather with bright sunshine but some cold nights. Mean temp. 62°·6. Duration of sunshine 216·6 hours.

III. South Midland Counties.—*Harrow Weald.* R 1·33 in. below the average of 15 years.—*Harpenden, Rothamsted,* Very dry and warm. The R was less than one-sixth of the average. Duration of sunshine 271·9 hours, or 46·7 hours above the average.—*Throcking.* R 1·66 in. below the average of 25 years.—*Ampthill, Higham Bury.* R 2·09 in. below the average of 15 years.

IV. Eastern Counties.—*Colchester, Lexden.* Hot and often sultry but only one slight TS. It was the driest July in 17 years.—*Copdock.* The feature of the month was the persistent drought, and the persistence of N. and E. winds, which have prevailed during the whole of the year. There were not many really hot days and the mean temp. 63°·3 was fairly normal. Duration of sunshine 246 hours.

V. South Western Counties.—*Bishops Cannings.* R 1·33 in., and rain days 6, below the average.—*Wootton Bassett.* R 1·11 in. below the average of 16 years.—*Tavistock, Whitchurch.* Showery, damp, cloudy and rather cold, with R below, but rain days above, the average. The daily mean temp. varied from 51°·9 on 13th to 65°·5 on 22nd. The shade max. rose to or above 70° on 6 days only, the absolute max., 73°·6, being the lowest in July since 1895. N.W. wind was most prevalent.—*Wellington.* A splendid summer month but with deficient R, the fall being only about one quarter of the normal amount.

VI. West Midland Counties.—*Cirencester, Further Barton.* A fine summer month with no extreme temp. R about half the average with only one TS. Crops in this district were magnificent without a single failure.—*Bishops Castle.* With the exception of 1885 the lowest July R for 32 years. Water supplies were becoming short. No TSS.

VII. North Midland Counties.—*Worksop, Hodsock Priory.* The driest July since 1885.—*Belper.* R 2·02 in. below the average of 25 years.

VIII. NORTH WESTERN COUNTIES.—*Chatburn.* R ·92 in. below the average of 17 years.

IX. YORKSHIRE.—*East Layton Hall.* A hot and droughty month and R much needed. A fine hay harvest and good crops well gathered.

XI. WALES.—*Carmarthen.* Generally unsettled weather, fine bright days alternating with dull cloudy or misty weather. Hay was harvested with difficulty, many crops being damaged although in some cases good crops were well saved.—*Gogerddan.* The first 15 days were fine with plenty of sunshine, S. and S.W. wind and little R. From 15th it was dull and sunless with R on 9 days and strong wind from E. and N.E.

SCOTLAND.

XII. SOUTHERN COUNTIES.—*Cargen* [*Dumfries*]. A bright sunny month with R considerably below the average. Excellent prospects for all farm crops, but fruit crops were an utter failure.

XVI. EAST MIDLAND COUNTIES.—*St. Andrews.* A variable month with much wind, so in spite of frequent R everything became parched. Mean temp. 57°·1.

XVIII. NORTH WESTERN COUNTIES.—*Drumnadrochit.* R ·84 in., and rain days 3, below the average of 20 years.

IRELAND.

XX. MUNSTER.—*Dunmanway.* The first fortnight was fine with R chiefly at night, the third week fine on the whole but misty, but in the last five days heavy R fell, again principally at night. It was a cool month.

XXI. LEINSTER.—*Ballybrack.* Want of heat and of moisture was injurious to vegetation. R 1·04 in. below the average of 20 years.—*Rathmines.* Another dry July although slight showers and drizzle were frequent. Variable conditions prevailed, the most remarkable feature being the great number of sunless days with little or no R. On 16th and 18th gales occurred, an unprecedented occurrence for July. After 20th a great improvement took place and the month ended with brilliant warm weather. Mean temp. 59°·2; the max. exceeded 70° on 10 days only. No TSS.

XXIII. ULSTER.—*Banbridge, Milltown.* R 1·19 in. below the average of 40 years.

AUGUST.*

ENGLAND AND WALES.

I. LONDON.—*Fulham, Edith Road.* A hot and dry month. Mean temp. 3°·2 above the average. R 1·52 in. below the average. Only in 1899 has the temp. been higher or the R less.—*St. Pancras, Camden Square.* Again a dry and warm month, being with two exceptions the warmest August in the record of 49 years. Mean temp. 65°·8, or 3°·7 above the average. Brilliant weather at the beginning and end of the month, but unsettled in the middle. Duration of sunshine 196·9 hours and of R 7·6 hours.

II. SOUTH EASTERN COUNTIES.—*Wallington.* R 1·44 in. below the average of 20 years. Mean temp. 65°·1, or 3°·4 above the average. Duration of sunshine 230·6 hours (Jordan), being 32·5 hours, or 7 per cent., above the average.—*Sellindge.* Commenced with heat and much L at night, but little or no R fell. Changeable during the middle part with cold nights, but from 21st warmer and more settled, the last 5 days being absolutely cloudless. Vegetation suffered severely from drought.—*Horsham.* Terribly hot and dry, causing a great shortage of water in this district.—*Crowborough.* A beautiful month, with a considerable amount of sunshine. Although the temp. reached 80° on 3 days only, the mean was 62°·5, or 2°·5 above the average. R was deficient, being 1·31 in. below the average of 35 years. No severe TSS.—*East Grinstead.* R 1·82 in. below the average of 16 years. --*Totland Bay.* R 1·91 in., and rain days 7, below the average of 20 years. Duration of sunshine 235·1 hours.—*Petersfield.* R 2·27 in. below the average and the lowest recorded in 16 years.—*Hartley Wintney.* A *mensis mirabilis*, the third consecutive month of real summer weather, hot and dry with absence of severe storms. The third week was dull with wind. Drought began to make itself felt, water being scarce in some places.

III. SOUTH MIDLAND COUNTIES.—*Slough, Upton.* After the dry April and the nearly rainless period extending from June 29th to the end of August, pasturage, fruit and vegetables were exceedingly scarce and ponds and watercourses were drying up; only wheat prospered.—*Woburn, Milton Bryant.* Extremely hot and dry with wind mainly from the W.; the R of 13th to 17th quickly dried up. Harvest was completed in record time and the crops were grand, but there was no

* See also *Met. Mag.*, September, 1906, p. 159, and *Quart. Journ.* R. Met. Soc., January, 1907, p. 5.

grass and consequently milk was scarce and butter at midwinter prices. —*Ampthill, Higham Bury.* R 1·38 in. below the average of 15 years. —*Blisworth.* Extremely hot with R 1·70 in. below the average of 10 years. Harvest work was completed by the end and corn in good condition, though grass was much dried up.—*Pitsford.* R 1·05 in. below the average. Mean temp. 63°·1.—*Trumpington.* R 1·65 in. below the average of 40 years.

IV. EASTERN COUNTIES.—*Sudbury.* R 1·74 in. below the average of 18 years and the lowest in that period.—*Colchester, Lexden.* Severe drought prevailed (although quite obscured by the definitions) and was accentuated by brilliant sunshine and great heat. There was no grass except in low damp localities and many trees lost their leaves or colouring.—*Copdock.* A wonderful month for harvest and holiday making, but disastrous for the garden, where there was hardly a flower to be seen. The temp. was irregular throughout, with isolated hot days culminating in four cloudless days from 28th to 31st and 91° on the last day. Mean temp. 64°·3.

V. SOUTH WESTERN COUNTIES.—*Bishops Cannings.* A splendid harvest month, carrying being almost finished by September 1st. R 1·90 in., and rain days 4, below the average.—*Wootton Bassett.* R 1·60 in. below the average of 16 years.—*Tavistock, Whitchurch.* Damp, foggy, cloudy and rather wet and warm with southerly winds. The daily mean temp. varied from 55°·0 on 18th to 68°·8 on 31st.

VI. WEST MIDLAND COUNTIES.—*Cirencester, Further Barton.* The driest August since 1883, with R 1·75 in. below the average. Although the weather was rather unsettled the R was very slight and speedily dried by the strong winds. The finest harvest weather and the best crops for many years.—*Worcester.* A hot and dry month, R falling in such small quantities as to be nearly useless. A magnificent harvest, but grass was parched and brown.—*Farnborough.* Clay land was found to be dry to a depth of two and a half feet, and was much cracked by the heat and dryness. The corn harvest was splendid.

VII. NORTH MIDLAND COUNTIES.—*Grimsby.* Generally a fine and typical August, with more or less severe TSS during the first half. Intensely hot and glaring sunshine for the last few days.

VIII. NORTH WESTERN COUNTIES.—*Chatburn.* R ·92 in. below the average of 17 years.—*Broughton-in-Furness.* A few very fine days at the beginning and at the end, but showery from 8th to 26th with only three rainless days. There was little wind during the month and practically no T or L.

X. NORTHERN COUNTIES.—*Ambleside, Skelwith Bridge.* R ·34 in. below the average of 17 years.

XI. WALES, &c.—*Llanfrechfa Grange.* An early harvest was all housed by the end of the month. Great prevalence of S.W. wind, but usually light. Remarkable heat towards the end. Water began to get short in tanks and springs.

SCOTLAND.

XII. SOUTHERN COUNTIES.—*Lochmaben, Esthwaite.* The wettest August yet known, R amounting to 7·88 in., or 3·09 in. above the average of 14 years.—*Lilliesleaf, Riddell.* Much R and bad for hay though all other crops were very good. There was a great quantity of grass and turnips were splendid.

XV. WEST MIDLAND COUNTIES.—*Inveraray.* The total R was not extraordinarily large, but fine days were rare and not till 29th was there any appearance of dry weather.—*Mull, Quinish.* Warm and unsettled with constant short heavy falls of R. Crops of all kinds were unusually good.

XVI. EAST MIDLAND COUNTIES.—*St. Andrews.* Wet and cold till the last week, which was fine and warm, allowing much corn to be cut. Crops were good.

XVIII. NORTH WESTERN COUNTIES.—*Drumnadrochit.* R ·24 in. above, and rain days 2 below, the average of 20 years.

IRELAND.

XX. MUNSTER.—*Dunmanway.* The days as a rule were fine, but the evenings and nights misty or wet, and the month as a whole was much damper than the R, 3·72 in., would indicate. As a rule it was cool, but from 4th to 9th, on 22nd, and from 26th to 31st very warm.

XXI. LEINSTER. — *Ballybrack.* The first part was genial with frequent gentle showers, the latter part dry with E. wind. R 1·14 in. below the average of 20 years.—*Rathmines.* A month of thoroughly summer-like character and a striking contrast to the cool and autumnal Augusts of the past few years. The last week was remarkably calm and brilliant with temp. much above the average. Although R fell on 15 days its duration was short, most of it falling in a few heavy showers.

XXIII. ULSTER.—*Banbridge, Milltown.* R ·89 in. above the average of 40 years.—*Omagh.* The month was rainy and humid, with more

than the average R and rain days, but from 26th to the end it was abnormally hot.

SEPTEMBER.*

ENGLAND AND WALES.

I. LONDON.—*St. Pancras, Camden Square.* Opening with a burst of extraordinarily high temp., during which the shade max. twice exceeded the previous record during September, the weather continued on the whole fine and warm. The third week was more broken and rainy, but subsequently anticyclonic conditions again prevailed with lower temp. Duration of sunshine 154·1 hours and of R 21·4 hours. Mean temp. 59°·8, or 2°·1 above the average.

II. SOUTH EASTERN COUNTIES.—*Frimley Green.* Great heat was experienced for the first three days, but towards the end of the month the temp. fell below freezing point. In spite of a few days' R in the middle of the month the ground at the end was very dry and R was wanted.—*Wallington.* R ·30 in. below the average of 20 years. Duration of sunshine 175·1 hours (Jordan), being 15·4 hours, or 4 per cent., above the average.—*New Malden.* Great extremes of temp., which on 1st reached 94°·5 and touched freezing point towards the end. Mean temp. 57°·4. From 1st to 11th, with the exception of 4th, and also from 22nd to the close, it was dry, the wind being between N. and E. from 17th to the close.—*Tenterden.* Intense heat early in the month, but showery weather from 13th to 20th freshened up the parched grass lands. The last ten days were again dry. Duration of sunshine 199·7 hours (Jordan).—*Sellindge.* Great heat in the day time during the first week, the nights being relatively cool. There was an unusual amount of bright sunshine, and scanty R, throughout. Mean temp. 59°·1.—*East Grinstead.* R ·67 in. below the average of 16 years.—*Farnborough (Berks).* No R from August 25th to September 11th inclusive and again from September 20th to 30th. Water in wells 330 feet deep was unusually low.

III. SOUTH MIDLAND COUNTIES.—*Harrow Weald.* R ·72 in. below the average of 15 years.—*Hampton Poyle.* Water, after being low in river and all wells during August, became extremely scarce.—*Pitsford.* A beautifully fine month with day after day of brilliant sunshine. R 1·69 in. below the average. Mean temp. 57°·5.—*Ampthill, Higham Bury.* R ·74 in. below the average of 15 years.

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* See also *Met. Mag.*, October, 1906, p. 179, and *Quart. Journ.* R. Met. Soc., January, 1907, p. 5.

IV. EASTERN COUNTIES.—*Copdock.* Extraordinary heat for the first eight days except on 5th (when the max. rose only to 70° and it seemed quite cold by contrast) and after that normal temp. with no frost. Mean temp. 59°·3. Duration of sunshine 211·7 hours.—*Bury St. Edmunds.* A hot, dry month and R was much wanted. Rivers and ponds were very low or dry.

V. SOUTH MIDLAND COUNTIES.—*Bishops Cannings.* R ·10 in., and rain days 7, below the average.—*Wootton Bassett.* R 1·21 in. below the average of 16 years.—*Ashburton.* An exceedingly dry month, the R being 3·05 in. below the average of 40 years. Springs were failing. —*Tavistock, Whitchurch.* Dry, fine, sunny and rather warm, with large daily and monthly range of temp. R only one-third of the average. The daily mean temp. varied from 70°·7 on 2nd to 50°·1 on 17th. The max. rose to or above 70° on 5 days and to 80° on 1st and 2nd.—*Wellington.* The month opened with exceedingly hot and dry weather; there was slight R from 11th to 18th and the close was again dry and fine. R about 1·50 in. below the average.

VI. WEST MIDLAND COUNTIES.—*Cirencester, Further Barton.* Another month of continuous sunshine and drought. A few wet days from 12th to 16th ended an absolute drought of 18 days, after which there was no R to the end. The R of July, August and September was more than 5·00 in. short of the average and wells and brooks were lower than for many years.—*Upton-on-Severn.* The dry weather continued, causing shortage of water in ponds and wells. The heat and want of R caused such trees as the sycamore and chestnut to lose their leaves, which were quite dried up and withered before they fell. Grass in gardens and fields was also quite brown.—*Worcester.* An exceptionally dry and fine month with abnormally high temp. on the first two days. The nights were for the most part cold, with sharp frosts on the last few days. Small amount of R from 11th to 16th put an end to an absolute drought of 17 days' duration, but no R fell from 17th to the end.

VII. NORTH MIDLAND COUNTIES.—*Worksop, Hodsock Priory.*—A fine month with warm days, and dry except for a showery week in the middle. The heat of the first three days was quite exceptional, the maximum on the 1st and 2nd being 93°·0.

VIII. NORTH WESTERN COUNTIES.—*Chatburn.* R 2·21 in. below the average of 17 years.—*Broughton-in-Furness.* Excessively warm at the beginning and without a drop of R from 16th to 30th with almost cloudless skies and no wind. Slight ground frosts towards the end.

IX. YORKSHIRE.—*Goldsborough Hall.* The first week was hot, but unsettled and showery weather prevailed from 13th to 21st. Thence to the end fine and dry.

X. NORTHERN COUNTIES.—*Ilderton, Lilburn.* Fine and calm, with R much below the average, but no absolute drought. The weather was favourable for harvest, which, however, was barely completed within the month.—*Ambleside, Skelwith Bridge.* R 2·88 in. below the average of 17 years.

XI. WALES, &c.—*Llanfrechfa Grange.* Fine and sunny, extremely hot to 8th, but afterwards much cooler. R was small and all springs were low, though vegetation remained fresh from heavy dews.—*Carmarthen.* Remarkably fine and bright with abundant sunshine and R only from 11th to 15th, affording ample opportunity for digging potatoes and completing the corn harvest. There was abundance of grass.—*Brecon.* The early part was warm and fairly fine; almost the whole of the R fell between 11th and 16th, and from that date to the end it was remarkably fine and warm. The night temp. throughout was unusually high.

SCOTLAND.

XV. WEST MIDLAND COUNTIES.—*Inveraray.* The latter half was remarkably fine and good progress was made with the hay and corn harvests, which had previously suffered from heavy R.

XVI. EAST MIDLAND COUNTIES.—*St. Andrews.* Fine and sunny with remarkably high temp. on the first three days. Harvest was good and well got in.—*Coupar Angus.* R ·85 in. below the average. Mean temp. 54°·3, or 2°·3 above the average.

IRELAND.

XX. MUNSTER.—*Darrynane.* A fine, dry and warm month. R was only 37 per cent. of the average, and of this amount 45 per cent. fell in a few hours on 30th.

XXI. LEINSTER.—*Ballybrack.* Exceptionally fine and uniformly mild, E. wind prevailing. R was the smallest in 30 years and 1·94 in. below the average. Pastures suffered.—*Rathmines.* The driest September since that of 1895, which brilliant month it much resembled except that, in spite of the tropical heat of the first two days, the temp. was much lower. A remarkable anticyclone prevailed from 16th to the close and not a drop of R fell from 16th to 29th inclusive.

The nights were cool and several ground frosts occurred. The duration of sunshine for the month was much above the average.

XXIII. ULSTER. — *Banbridge, Milltown.* R 1·86 in. below the average of 40 years.

OCTOBER.*

ENGLAND AND WALES.

I. LONDON.—*Fulham, Edith Road.* A wet and very warm month. R ·56 in. above the average; mean temp. 5°·0 above the average and the highest in 23 years' record. Many sunny days.—*St. Pancras, Camden Square.* Cloudy, damp and extremely mild, with few very fine but few very wet days. The mean temp., 54°·2, was 4°·4 above the average and the highest in October during 49 years, except 55°·3 in 1861. Duration of sunshine 56·2 hours and of R 49·6 hours.

II. SOUTH EASTERN COUNTIES.—*Epsom.* High min. temp. was a marked feature; there was an almost complete absence of frost and the shade max. reached or exceeded 70° on 3 days. Mean temp. 53°·7. —*Tenterden.* The first two days were wet and 28th and 30th still more so, bringing the total of an otherwise dry month to an inch above the average. Remarkably warm weather prevailed. Duration of sunshine 144 hours (Jordan).—*East Grinstead.* R 2·39 in. above the average of 16 years.—*Osborne.* Generally wet and unsettled with R about 50 per cent. in excess of the average of 48 years.—*Christchurch, Winkton Lodge.* Wet with 6·41 in. of R, but mild with equable temp. and no frost. Bright towards the end.

III. SOUTH MIDLAND COUNTIES.—*Harrow Weald.* R ·63 in. above the average of 15 years.—*Haileybury.* Sunny and very warm with high max. and min. temp. Heavy R at the beginning and end, falling mostly at night. Prevailing wind southerly. Mean temp. 53°·1.—*Harpenden, Rothamsted.* Dull and mild with R 2·20 in. above the average. Of the total more than half fell on three days. Night temp. ruled high.—*Throcking.* The warmest October yet observed, the mean temp., 52°·5, being, however, equalled in 1898. R 1·10 in. above the average of 25 years.—*Slough.* Despite continuous and heavy R the soil was still dry and dusty eighteen inches below the surface.—*Pitsford.* There were a few fine and bright days but a considerable amount of R, the total being 1·05 in. above the average. Mean temp. 51°·2.—*Ampthill, Higham Bury.* R 1·35 in. above the average of

* See also *Met. Mag.*, November, 1906, pp. 187, 199.

15 years.—*Bedford.* Wet and cheerless. The first two weeks were warm, the third cold and windy and the last 10 days wet and sunless. Prevailing wind W.

IV. EASTERN COUNTIES.—*Copdock.* Heavy R came opportunely with mild weather and a fair amount of sunshine. There was little wind and ground frost on one day only. Foliage was consequently still thick on the trees. The principal feature of the month was the extraordinary warmth. Mean temp. 54°·1. Duration of sunshine 123 hours.

V. SOUTH WESTERN COUNTIES.—*Bishops Cannings.* R 1·77 in., and rain days 10·5, above the average. The ground was so dry at the end of September that the excess of R did not make any show in ditches and drains.—*Wootton Bassett.* R 2·03 in. above the average of 16 years. —*Ashburton.* R 2·38 in. above the average of 40 years.—*Tavistock, Whitchurch.* Wet and rather cold with low bar. In the first 8 days 4·87 in. of R fell. The daily mean temp. varied from 58°·1 on 21st to 41°·1 on 30th, and the max. reached 60° on one day only. S. winds were most prevalent.

VI. WEST MIDLAND COUNTIES.—*Birdlip Hill.* R 2·21 in. above the average.—*Cirencester, Further Barton.* The R of the first two days fitly ended the long three months of dry weather, and the month was very wet but with little wind or frost. In spite of an excess of two inches of R, brooks remained below the summer level and springs did not commence to run.—*Mayfield House* [*Ashbourne*]. Exceedingly wet and mild, with low bar. and great deficiency of sunshine. Mean temp. 49°·5.—*Upton-on-Severn.* Mild with heavy R which did much good and produced remarkably thick crops of grass for the time of year.

VII. NORTH MIDLAND COUNTIES.—*Thornton Curtis.* R 5·79 in., the heaviest monthly fall here for at least 20 years.

VIII. NORTH WESTERN COUNTIES.—*Chatburn.* R 2·06 in. above the average of 17 years.—*Broughton-in-Furness.* Mild on the whole, with frost in the screen on one night only. There was some wild weather with heavy R and H at the end with lower temp. Mean temp. 50°·4, or 1°·5 above the average.

IX. YORKSHIRE.—*East Layton Hall.* Much-required R fell during the month and in a measure replenished the springs, which had not been known lower for years.—*Middlesbrough, Ormesby.* Heavy R and high temp. except about 14th. The ground was wet on the surface only until 29th, and the R was only just getting into the ground at the end of the month.

X. NORTHERN COUNTIES.—*Ambleside, Skelwith Bridge.* R 4·53 in. above the average of 17 years.

XI. WALES.—*Carmarthen.* Wet, cold and dreary for the most part but with some bright days. Root crops were good, but potato digging was delayed in many parts by the wet weather and crops were generally inferior.

SCOTLAND.

XVI. EAST MIDLAND COUNTIES.—*St. Andrews.* Wet and mild on the whole, the min. temp. being unusually high for the season. Some flowers still remained in the gardens at the end and trees were not quite bare of leaves.

XVIII. NORTH WESTERN COUNTIES.—*Drumnadrochit.* R 2·77 in., and rain days 5, above the average of 20 years.

XIX. NORTHERN COUNTIES.—*Bettyhill.* Fine, mild and bright; favourable for gathering in the crops.

IRELAND.

XX. MUNSTER.—*Darrynane Abbey.* R 15 per cent. above the average of 25 years.

XXI. LEINSTER.—*Ballybrack.* Damp and warm with little frost and much growth. R ·12 in. above the average of 20 years.—*Rathmines.* Changeable and wet with entire absence of gales and wind mostly light and variable. Autumn tints were not brilliant.

XXIII. ULSTER.—*Banbridge, Milltown.* R 2·22 in. above the average of 40 years.

NOVEMBER.*

ENGLAND AND WALES.

I. LONDON.—*Fulham, Edith Road.* R 1·72 in. above and mean temp. 2°·2 above the average.—*St. Pancras, Camden Square.* Another persistently mild month; the max. temp. failed to reach 50° on 6 days only, and the mean temp. was 46°·7, or 3°·7 above the average. The first and third weeks were decidedly wet, and sunless, gloomy conditions prevailed almost throughout. Duration of sunshine 29·9 hours and of R 68·3 hours.

II. SOUTH EASTERN COUNTIES.—*Epsom.* Generally cloudy, mild, open and very wet. Fog occurred on 5 days, but was of little density.

* See also *Met. Mag.*, December, 1906, pp. 215, 219.

Mean temp. 45°·2.—*Wallington.* Warm, wet, sunless and unhealthy. R 1·42 in. above the average. Mean temp. 45°·9, or 1°·9 above the average. Duration of sunshine 31·9 hours (Jordan), being 19·0 hours below the average.—*Speldhurst.* R 6·26 in., making the wettest of the last 181 months recorded here.—*East Grinstead.* R 2·68 in. above the average of 16 years.—*Totland Bay.* Dull, with less sunshine than any November previously recorded. The wind was chiefly S.W., but the atmosphere rather drier than usual.—*Christchurch, Winkton Lodge.* Mild and damp, with frost in the middle but not lasting. The temp. was very variable and wind strong. Remarkably sudden rise and fall of bar. in the middle and end of the month, not preceded or followed by any remarkable changes.—*West Dean (Hants).* Mild, with cold spells from 10th to 13th and from 18th to 21st. On the latter date an extremely warm period commenced and lasted till the end of the month. R and temp. were both much above the average.—*Hartley Wintney.* Warm and genial, with much R during the first three weeks. Foggy in the last week. No gales. Ozone occurred on 17 days, with a mean of 3·1.—*Maidenhead.* Overcast and gloomy, with fog and heavy R. Duration of sunshine 46·9 hours.

III. South Midland Counties.—*Harrow Weald.* R 1·89 in. above the average of 15 years.—*Harpenden, Rothamsted.* Temp. 2°·5 above the average, but only 46 hours of sunshine, or 12 hours less than the average. The R was heavy, but fell chiefly in the first 8 days.—*Throcking.* R 1·57 in. above the average of 25 years.—*Oxford.* Considerable variations of temp., but on the whole wet and warm. Some sunshine occurred on 17 days and there was not much fog.—*Pitsford.* R 1·18 in. above the average. Mean temp. 42°·6.—*Ampthill, Higham Bury.* R 1·87 in. above the average of 15 years.

IV. Eastern Counties.—*Colchester, Lexden.* Very mild and the wettest November yet recorded. From October 28th to November 8th, inclusive, the R amounted to 4·57 in.—*Copdock.* A typical dull and gloomy November, but with an abnormal quantity of R. On the 24 days ending on 20th no less than 5·11 in. fell, an amount unparalleled even in 1903. Mean temp. 45°·6, 5°·0 above that of November, 1905. Duration of sunshine 43·0 hours only.

V. South Western Counties.—*Yatesbury.* Cold till 21st, but afterwards very warm, bringing the mean temp. for the month to 1°·0 above the average. R more than 1·50 in. above, but rain days below, the average.—*Wootton Bassett.* R 1·14 in. above the average of 16 years.—*Ashburton.* In the first half there was a continuation of

northerly wind with dense frosty valley fogs. S.W. and W. winds in the latter half with mild and damp weather.—*Tavistock, Whitchurch.* Rather warm with somewhat less R than usual. The daily mean temp. varied from 37°·6 on 19th to 53°·9 on 22nd. Fog on 9 days.

VI. West Midland Counties.—*Clifton.* Mild and rainy, with the exception of a dry, cold spell with E. winds from 10th to 14th. R half-an-inch below the average.—*Cirencester, Further Barton.* Mild, damp and rough, the last 10 days being unusually warm. R half-an-inch above the average.—*Worcester.* The first two-thirds of the month were wet, but the remainder was fair and mild. A good deal of wind at intervals, but little fog or frost. The temp. was as a rule above the average, rising above 55° on the last ten days.

VIII. North Western Counties.—*Chatburn.* R ·69 in. above the average of 17 years.—*Broughton-in-Furness.* R ·90 in. below, and rain days about equal to, the average. There was less fog than usual, and little strong wind or frost. Mean temp. 1°·5 above the average.

X. Northern Counties.—*Ilderton, Lilburn.* Mild throughout and much brighter weather on the whole than is usual in November.

SCOTLAND.

XII. Southern Counties.—*Cargen* [*Dumfries*]. The temp. was much above the average, but it was generally a dull and damp month. Vegetation was too advanced and bound to suffer from later frosts.

XIII. South Eastern Counties.—*Musselburgh.* Almost constantly windy; at first E. and N.E. prevailed, then N. and N.W., and from 17th W. and S.W. There was a mild spell from 21st to 26th, the mean temp. for the six days being 53°.

IRELAND.

XXI. Leinster.—*Ballybrack.* R 1·32 in. below the average of 20 years. Frequent high winds. The last ten days were much warmer than the earlier part of the month.—*Rathmines.* The first fortnight was seasonable with low day temp., occasional fogs, moderate R and N.E. winds. The third week was unsettled, with moderate gales and occasional night frosts. From 21st to the end unprecedentedly high temp. prevailed and 60° was exceeded on two days, whilst on three nights the min. did not fall below 50°. No S, sleet or H.

DECEMBER.*

ENGLAND AND WALES.

NOTE.—The widespread snow storm of the last week in December is the subject of a special article in Part I.

I. LONDON.—*St. Pancras, Camden Square.* About normal temp. prevailed till the last 10 days, when a period of severe frost brought the mean temp. down to 37°·8, or 1°·4 below the average. A number of brilliant days occurred during the first half, but the latter part was cheerless and damp. Four-and-a-half inches of S fell during the night of 25th and the four following days were all more or less snowy. Duration of sunshine 37·2, and of R 51·6 hours.

II. SOUTH EASTERN COUNTIES.—*Wallington.* R ·44 in. below the average of 20 years. Mean temp. 37°·4, or 1°·8 below the average. Duration of sunshine 18·2 hours.—*Crowborough, Steel Cross House.* The month opened with rather mild weather, but after the first week cold set in and continued till the closing days, when heavy R and higher temp. rapidly melted all the S which had fallen.—*East Grinstead.* R ·59 in. below the average of 16 years.

III. SOUTH MIDLAND COUNTIES.—*Pitsford, Sedgebrook.* R ·37 in. above the average. Mean temp. 35°·8.

IV. EASTERN COUNTIES.—*Copdock.* A featureless month till the last week, when the S storm of 26th and the extraordinary vagaries of temp. will be long remembered. Mean temp. 35°·0. Duration of sunshine 49·2 hours.

V. SOUTH WESTERN COUNTIES.—*Bishops Cannings.* R 1·03 in., and rain days 2, below the average.—*Tavistock, Whitchurch.* Cold and showery, with higher bar. and less R than usual. The mean temp., 38°·6, was the lowest since observations commenced in 1893, and the daily mean temp. varied from 49°·5 on 3rd to 25°·5 on 28th.

VI. WEST MIDLAND COUNTIES.—*Mayfield House* [*Ashbourne*].—Another wet month, with heavy S in the middle and end. Mean temp. 35°·5.—*Worcester, Boughton.* Mild for the first three weeks, with R on most days. Sharp frost set in on 21st and three or four inches of S fell on the night of 25th with slight S afterwards, continuing till the end.

VIII. NORTH WESTERN COUNTIES.—*Broughton-in-Furness.* Mostly showery or wet till 17th, then fair for a few days but dull and

* See also *Met. Mag.*, January, 1907, p. 243.

gradually getting colder. S between 25th and 30th amounting altogether to about 13 inches.

IX. YORKSHIRE.—*Upper Midhope.* The first week was wet, mild and windy; the second cold with R, sleet and H. From 16th to 20th it was mild and damp, and from 21st to 31st wintry, especially from 25th, after which date a total of 8½ inches of S fell.

X. NORTHERN COUNTIES.—*Ambleside, Skelwith Bridge.* R 3·50 in. below the average of 17 years.

SCOTLAND.

XIII. SOUTH EASTERN COUNTIES.—*Musselburgh.* Mild till 7th, when there was a frosty spell lasting from 8th to 15th. This was followed by another mild spell from 16th to 21st, and on 22nd frost again set in, being unusually severe from 25th. For the last week of the month the mean temp. was 29°·2.

XVI. EAST MIDLAND COUNTIES.—*Dundee, Balruddery.* Dull, with a small amount of sunshine but very little R. The month ended with frost and a severe blizzard.

IRELAND.

XX. MUNSTER.—*Darrynane.* The early part was warm and foggy, the last week cold and snowy. R 94 per cent. of the average.

XXI. LEINSTER.—*Ballybrack.* R ·41 in. below the average of 30 years.—*Rathmines.* Generally gloomy and overcast. The first and third weeks were mild, an anticyclone with dry but gloomy weather prevailing from 16th to 23rd. In the last week occurred the most severe frost in December for many years; on 27th, 28th and 29th the temp. failed to reach 32°. Gales were few during the month and there was no fog. Mean temp. 39°·6, or slightly below the average.

XXII. CONNAUGHT.—*Markree Observatory.* The first part was fair though several gales with H were recorded. The middle was mild and partly dry, and the end was cold with the heaviest S for many years.

OBSERVERS' NOTES ON THE YEAR 1906.

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

ENGLAND AND WALES.

DIVISION I.—LONDON.

FULHAM, WEST KENSINGTON, EDITH ROAD.—A singularly fine year, almost every month except December being distinctly pleasant. Mean temp. was 1°·3 above the average, and the R almost precisely the average. There were two absolute droughts, from March 29th to April 17th, 20 days, and from June 30th to July 17th, 18 days; and a partial drought from March 25th to April 26th, 33 days, with ·31 in. of R. The year was remarkable for the heaviest fall in 24 hours ever recorded here (2·20 in. on June 28th), and for three consecutive days with a temp. over 92°, two of them being the highest readings ever recorded here.—*G. von U. Searle.*

HAMPSTEAD, BURRARD ROAD.—The opening weeks were remarkably wet and cold, but a spell of bright weather early in March suggested an early arrival of spring. This season, however, proved far from genial at the commencement, and except at Easter was by no means of the most pleasant character, whilst May again proved disappointing. The summer was ideal, with little oppressive heat till near the end. Autumn was for the most part mild and wet, but winter commenced somewhat rigorously.—*William Godden.*

ST. PANCRAS, CAMDEN SQUARE.—The principal feature of the R of 1906 was the inequable distribution through the year. January and November were very wet months, and October rather wet, but from March to September inclusive there was a serious deficiency relieved only by the fall of June 28th—29th, when 2·27 in. were deposited during one night. Long spells of almost rainless weather occurred in April and July. The excess during January caused the cumulative total to be above the average until the end of April, but after that, with the exception of a slight excess at the end of June,

there was a deficiency till the end of the year. TSS were almost entirely absent. The contrast between the summer and winter seasons was even more marked in respect of the duration of R. All the six winter months, January to March and October to December, gave durations in excess of the average of 24 years, January and November each exceeding 60 hours; on the other hand, the six months April to September all fell short of the average, although May and September approximated to it; the greatest deficiency was in April, July and August, each of which gave less than 10 hours. The number of rain days in the year was 3 above the average, and the departures from the monthly averages were not so pronounced as might have been expected. Temp. was remarkably high except in the spring and early summer, when it was about normal, with a fair proportion of polar winds, and in December, when severe frost in the last fortnight reduced it below the average. The whole of the latter part of the summer and the autumn were unusually warm, the mean temp. from July to November inclusive being 58°·3, or 3°·1 above the average. From August 31st to September 3rd occurred a period of quite unprecedented heat, during which the shade temp. rose above 90° on 3 consecutive days, reaching 94°·0 on September 3rd, a reading 2°·8 above the previous September record. During the winter months frost occurred in the screen on 53 occasions and on grass on 104; of these 14 frosts in the screen occurred in February and 14 in December; more than 20 grass frosts occurred in February, March and December. The latest frost of the spring occurred in the screen on April 29th and on grass on May 18th; the first frost of the autumn in the screen on November 12th and on grass on November 11th. The mean temp. for the year was 51°·2, or 1°·4 above the average. The duration of sunshine (Campbell-Stokes) was 1454·5 hours; 65 sunless days: over 200 hours occurred in June and July, and April and August fell little short of this amount; less than 40 hours occurred in November and December, but no month was extremely lacking in sunshine.—*Hugh Robert Mill.*

DIVISION II.—SOUTH EASTERN COUNTIES.

SURREY.

HASLEMERE, HAZELHURST.—January and February were warm and wet, having 11·28 in. of R, or more than double the average. The fall from March to September, inclusive, amounted to 11·69 in.,

being 5·56 in. below the average. The aggregate was, however, at all times above the average owing to the heavy fall of the first two months. The summer was notable for a continuance of bright sunshine, nor was there any serious drought, for when most needed a heavy shower would fall. The R of October and November amounted to 11·85 in., being 3·03 in. above the average. The total for the year was 1·71 in. above the average. The heavy winter R kept deep wells supplied, and a well 206 feet deep lost only 1 ft. 1 in. by gradual shrinkage between May 7th and December 19th, by which date the autumn R did not seem to have penetrated. The duration of sunshine was 1877 hours, with 54 sunless days.—*T. P. Newman.*

FARNHAM, THE BOURNE VICARAGE.—Notwithstanding the dry summer the R was 1·14 in. above the average of 25 years. The greatest amounts registered were in January, October and November. In the six months from April to September, inclusive, R fell on only 55 days, leaving 128 days rainless. During that period 3·58 in. fell in five showers, so that with this exception there was only 3·96 in. The first three and the last three months produced a total of 20·38 in., which fell on 124 days, leaving only 58 rainless days.—*T. W. Sidebotham.*

HORSELL, LINDISAYE.—R ·17 in., and rain days 15, below the average of 13 years.—*H. Horncastle.*

LYDEN CROFT [EDENBRIDGE].—The R was 4·40 in. above the average of 15 years and may therefore be assumed to have been sufficient for all requirements. But this precipitation occurred chiefly in the two winter months commencing the year and in the three autumn and winter months at its close. This marked peculiarity, however welcome to country residents generally as conducive to sunshine, happiness of life, and fruit perfection, was not welcome to those interested in the yield of hay or hops, for out of a fall of 32 inches of R only 11·31 in. were received for the manifold moisture wants of the seven months March to September, while 20·72 in. ran in great measure wasted to the sea in the remaining five months.—*C. Planck.*

NUTFIELD PRIORY.—In the three months January, October and November, 14·13 in. of R fell, whilst the other nine months averaged 1·53 in. each. This was most disastrous in hilly dry soil, and all kinds of trees suffered, some of which will not recover.—*John Moffat.*

WARLINGHAM, EGREMONT.—R 2·55 in. above the average of 14 years.—*Henry Rogers.*

EPSOM, ASHLEY ROAD.—A remarkably fine year, with an abundance of sunshine, and little R during the summer months. The fruit crop was good, and the harvest was got in in good condition. There were nine TSS during the year; sharp cyclonic TSS occurred on January 9th and February 8th, and the most severe storm took place on August 2nd, being noteworthy for the brilliant display of L. T alone was recorded on 7 days, L on 15, H on 14, and S on 31. Fog occurred on 28 days, but was of little density, and the wind reached or exceeded the force of a gale on 18 days. Auroral displays were seen on November 16th and 29th. The months of September, October and November, were exceptionally warm, with an almost complete absence of severe frosts. During October, frequent night minima exceeding 50° prevailed, and as late as the 22nd of that month there was a shade maximum of 69°·2. During the year 77 frosts were recorded in the screen and 131 on the grass. The outstanding features of the year were the remarkable heat wave from August 31st to September 3rd, and the heavy snowstorm of December 26th.—*Spencer C. Russell.*

WALLINGTON, COTSWOLD.—R ·36 in., and rain days 1, below the average of 20 years.—*F. Campbell Bayard.*

CROYDON, PARK HILL RISE.—R ·04 in. above, but rain days 13 below, the average of 13 years. The fall was unequally distributed, most months being dry, but January, October and November very wet.—*H. F. Parsons.*

KENT.

TENTERDEN, SUMMERHILL.—A year of drought with great heat in July, August and September. It was a magnificent summer, but owing to the shortness of R, flowers and vegetables did not do well, grass was scarce, and hops were bad owing to blight which was persistent. R, which was much needed, fell heavily in October and November. There was a cold spell with much S at Christmas.—*Mary Wilkin.*

TENTERDEN.—The R was ·67 in. below the 40 years' average, and the sunshine much above the average with a total duration of 1924 hours (Jordan). January was warm, wet and windy. Absolute drought for 22 days from March 27th to April 17th. The latter part of April was cold and showery, and May was rather cold and wet; June was cold but dry, and July and August warm, though there were only 9 days with temp. over 80°; both months were very

dry. September was dry, except from 13th to 20th, when welcome R gave relief to the parched grass. The R from June to September was only 3·93 in., the least by an inch during 44 years. Great scarcity of TSS, only 9 being noted from May to August and all of them slight. October was very warm, having 1 day with temp. over 70° and 18 others over 60°, and the R was light except on 1st, 2nd and at the close. In 13 days from October 28th to November 9th, the unusual amount of 5·61 in. fell, and from November 15th to 20th a further 2·07 in. yet on November 30th the depth of water in the well was no greater than on August 12th. December was mostly cold with 19 night frosts.—*J. E. Mace.*

TONBRIDGE, PRIMROSE HILL.—The winter months were open and rather wet, spring was cold and dry, and summer exceptionally fine, with prolonged drought, and great heat in early September. The autumn was very wet with remarkable absence of frost; sweet peas lasted till the end of November. The year closed with heavy S.—*G. J. Kimmins.*

TONBRIDGE, INGLESIDE.—Although the spring and summer were notably dry, the only period of absolute drought was from March 27th to April 17th, inclusive. High temp. ruled in summer and early autumn, especially at the end of August and beginning of September, but there were practically no TSS.—*Arthur H. Neve.*

SELLINDGE, PENMAIN.—The spring was cold and wet, and a glorious summer was varied by many TSS. The first half of June was chilly, but September to a great extent made amends. November was very wet.—*F. H. Perkins.*

RECULVER.—Since the R was 1·91 in. below the average of 20 years, and it was also a year of much sunshine, great evaporation was a factor in accentuating the droughty character of the period from February to September. The frequent slight falls of the first three months, however, left the surface of the soil in a friable and open state suitable for working and healthy germination of seed. There was an average yield of cereals, but grass and roots were very short.—*Allington Collard.*

ST. PETERS.—R ·52 in. above the average of 13 years. Duration of sunshine 2008·6 hours.—*H. C. V. Snowden.*

MARGATE, WESTLANDS.—R 2·00 in. below the average of 26 years. The summer was in every way exceptionally fine and the mean temp. for the year, 51°·0, was high.—*John Stokes.*

SUSSEX.

CHICHESTER, WESTGATE.—With the exception of 1·50 in. of R in the last ten days of May and 1·02 in. on June 28th, there was practically no useful R from mid-March to the beginning of September, and meadows and lawns were brown till October.—*G. Ashley Tyacke.*

FUNTINGTON.—The artesian well here ceased to overflow on about September 10th and overflowed again on November 30th, 33 days earlier than in 1905.—*J. A. Greenwood.*

HORSHAM, LEONARDSLEE.—R 1·54 in. above the average of 12 years.—*W. A. Cook.*

HASTINGS, GUESTLING RECTORY.—The year was wet, both at the beginning and end, but dry during the summer. Thus during the three months June, July and August, only 1·80 in. of R fell, or about a quarter of the average. The three wet months were January, October and November, in which the falls were 4·52 in., 4·43 in. and 6·26 in., so that in three months there was 15·21 in., or considerably more than the amount for the other nine months. In May there were some good showers, each somewhat exceeding half an inch, which enabled the grass and corn to withstand much better than could have been expected the very dry weather which followed. The summer was fine and notable for the great amount of sunshine; the hottest days were August 31st, and September 1st and 2nd, on which days the max. temp. was about 82 degrees. The first two or three weeks of October had temp. considerably above the average. The latter part of December from the 20th to the end of the month was very cold.—*E. N. Bloomfield.*

ROBERTSBRIDGE, SALEHURST VICARAGE.—Two features of special interest during the year were the long period from March 27th to the end of September, when only 9·19 in. of R fell, and the short period from October 28th to November 20th, when 10·65 in. fell.—*Edward J. Sing.*

CROWBOROUGH, UCKFIELD LODGE.—The year will long be remembered as one of the sunniest on record, with much pleasant and genial weather almost throughout, and with a most brilliant and long summer. The second half of March and December were the only really cold periods. It was mild and pleasant up to the end of May when the temp. rose rapidly, and the summer warmth really extended well into November. The total R was 5·58 in. above the average of 35 years. The distribution by seasons was as follows:

January to March, 12·41 in.; April to June, 6·64 in.; July to September, 4·51 in., and October to December, 17·35 in. Thus the winter and autumn R was considerably above the average, the spring R was normal, and the summer was remarkably dry, having only half the average R. Absolute drought prevailed from March 27th to April 17th inclusive. Only one slight shower of S fell in January, but frequent showers in February and March, the heaviest being two inches in depth on 14th and again on 27th of the latter month. There were again a few showers in April, and no further S till December, when 1¼ in. fell on the 13th, and the heaviest fall of the year, 5 inches of undrifted S, on Christmas night, and later a lighter shower on 27th. July, August, September and October were the only months without H; the most frequent H storms were in April. In the first three months the shade temp. never fell below 26°·5, but in December there was frost almost throughout. The summer was the warmest experienced for many years. There was great heat at the end of August and in the first four days of September, when the shade temp. reached 90°·9 on 2nd, the highest reading since July 15th, 1881. September was practically the only calm month; in every other month there were storms and gales of more or less severity.—*J. J. S. Driberg.*

TICEHURST, WHILIGH.—The early part of the year was wet, but spring and summer were very dry. No R fell for 22 days from March 27th to April 17th, and the hay crop was only saved by the fall of 1·55 in. of R on June 28th—29th. October and November were very wet; 9·15 in. fell in the 24 days from October 28th to November 20th, but I have never known so much R do so little harm.—*G. J. Courthope.*

WADHURST, LOWER COUSLEY WOOD.—R 2·40 in. above the average of 25 years.—*Frederick Wilkin.*

EAST GRINSTEAD, CRANSTON ROAD.—R 3·99 in. above the average of 16 years.—*G. Mitchell.*

HAMPSHIRE.

SHANKLIN.—Remarkable for the heavy falls of R in January, October and November, and for the exceedingly dry periods during June, July, August and September, making a wonderfully fine summer. In the upper greensand springs were well maintained but the surface was parched.—*Ernest Chas. Cooper.*

TOTLAND BAY, ASTON HOUSE.—R 3·21 in., or 11 per cent.

above, and rain days 2 per cent. above, the average of 20 years.—*John Dover.*

BOURNEMOUTH, CLARENDON COURT.—R 2·21 in. above the average of 12 years.—*G. Galpin.*

BOURNEMOUTH, KEMPSEY.—The total R rather exceeded the average. There were five months with excess. The fine summer, in which the extreme max. temp. did not exceed 79°·8 (Aug. 30th), was followed by a mild and very wet October and November, and there was only 1° of frost recorded in the screen up to December 8th, but this was not so exceptional as in 1900.—*E. L. M. Colvile.*

CHRISTCHURCH, WINKTON LODGE.—The R was above the average and was exceeded only four times in 15 years, but a brilliant hot and dry summer with occasional slight TSS gave the impression of a beautiful season. Fruit and flowers were abundant, but the spring being somewhat dry there was not the usual amount of hay. The harvest season was beautiful and many fields of corn were carried without a drop of R.—*Jane Lassell.*

EMSWORTH, REDLANDS.—R 3·82 in. above the average of 22 years. After a pleasant and auspicious opening the weather assumed an adverse nature early in spring, but a spell of more genial conditions in the early summer improved the position. The summer was marked by the heavy R of June 28th, the drought of July and by almost tropical heat. The autumn was equally genial and the winter brought desirable copious R. The year ended with the heaviest S and severest frost experienced for many years.—*F. Jacomb-Hood.*

FORDINGBRIDGE, OAKLANDS.—R 1·46 in. above the average of 10 years.—*Sidney B. Rake.*

EAST LISS, NEWLANDS.—R 2·87 in. above the average. The fall of 8·23 in. in January caused the aggregate total to exceed the average throughout the year notwithstanding the deficient falls in many months.—*E. B. Falwasser.*

GRAYSHOTT [HINDHEAD].—Of the total R, 36·14 in., 20·18 in. percolated through 3 feet of natural soil with heather growing on the surface.—*Charlotte Lyndon.*

STOCKBRIDGE, BROUGHTON.—Excessive R in January and October, but drought in July, August and September. Our stream was absolutely dry over the greater part so that the fish were all killed. Wells also were extremely low.—*W. Steele Tomkins.*

HARTLEY WINTNEY.—A beautiful year. There was a TS in each of the winter months and absence of TSS during the summer. The

winter months were also very wet and cold. After April 1st little R fell, and there was a long period of dry weather and much sunshine until the end of September. October was very wet, having nearly 2 inches above the average; the weather then continued mild until the last week in December when there was frost of little severity, and snow of great depth. The total R for the year was normal.—*W. G. Machin.*

BERKSHIRE.

YATTENDON COURT.—The year began with a mild winter, but the spring was cold, and late frosts destroyed nearly all the fruit in this neighbourhood. The summer was extremely hot and dry so that trees and shrubs suffered badly from drought, leaves falling off in September, though still quite green. Corn crops were very good and well harvested.—*G. H. Clark.*

DIVISION III. SOUTH MIDLAND COUNTIES.

MIDDLESEX.

PONDERS END, BYLOCK HALL.—A year of average total R, but with an uneven distribution. January, and the last three months were wet, but the summer was very dry with the exception of a sudden downpour of 2·07 in. on June 28th. Absolute drought prevailed from March 27th to April 12th, inclusive, and from June 30th to July 17th. The summer was remarkably hot and fine, and lasted practically from April to October, although May was rather cloudy.—*Harold E. Freir.*

HERTFORDSHIRE.

EASTBURY, NORTHWOOD.—Although the year was remarkably fine and sunny, the R was well up to the average. The six months, April to September, were responsible for 8·43 in. only, and of this total 3·17 in. fell in two periods of 24 hours each. There was an absolute drought from March 27th to April 17th. The outstanding feature of the year was, however, the unusually large proportion of heavy R which fell at night.—*H. Langford Lewis.*

ST. ALBANS, COUNTY MUSEUM.—A rather wet and very warm year, the R being about 2 inches above the average, and the mean temp. 1°·5 above the average, owing more to the warmth of the days than of the nights, in contrast with the previous year. The winter of 1905-6 was mild and wet; the spring was rather cold, and very dry; the

summer was warm and dry; and the autumn was very warm and wet. Nearly 10 inches more R fell in the six winter than in the six summer months.—*John Hopkinson.*

BUCKINGHAMSHIRE.

HEDSOR.—The winter and early spring were wet and mild, vegetation being forward at the end of March, but April and May were cold with severe frosts at intervals. June was dry, except for the heavy fall of 2·66 in. on the night of 28th, and it was very hot and dry during July, August and September. The autumn was wet and mild till Christmas, after which wintry conditions with heavy S prevailed. Absolute drought from March 27th to April 16th, inclusive; partial drought from March 27th to April 27th, 32 days, with ·29 in. of R, and from June 30th to August 12th, 44 days, with ·30 in. No rain spells.—*Boston.*

WINSLOW.—The spring and early summer had a useful quantity of R, but the grass and hay crops were below the average owing to the continued cold winds and low night temp. The excessive heat and dry air in summer scorched the pastures, but frequent R and mild weather in the autumn restored the supply of grass.—*R. A. Easton.*

OXFORDSHIRE.

ABINGDON, CULHAM VICARAGE.—The R was two inches below the average but fell on a large number of days. From April to October was a dry time, and the drought would have been much more disastrous to agriculture had it not been for the heavy R of June 28th. There was little T.—*F. C. Clutterbuck.*

BANBURY, BODICOTE.—R 2·69 in. above the average of 30 years. —*J. F. Starkey.*

NORTHAMPTONSHIRE.

BLISWORTH, CRIEFF HOUSE.—R 1·79 in., and rain days 23, above the average of 10 years.—*A. Westley.*

DAVENTRY, WELTON.—Although the year was the wettest since observations began in 1895, springs which generally start running in November only started at the end of the year.—*G. M. Soames.*

SCALDWELL.—Owing to heavy local R in June and a considerable quantity in the autumn, springs held out well notwithstanding the dry months of July, August and September, and the total for the year was 4·69 in. above the average of 16 years. All corn and root crops were good, but it was a poor grazing year.—*R. Soames.*

BURTON LATIMER RECTORY.—Although July, August and September were exceptionally dry and hot, the total R for the year was 5·66 in. above the average of 10 years.—*W. B. Jacques.*

DIVISION IV.—EASTERN COUNTIES.

ESSEX.

GRAYS, SEWAGE WORKS.—R 2·35 in. above the average of 11 years.—*Arthur C. James.*

SOUTHEND, BROADWAY.—The year was noteworthy for the great brilliancy of the summer. The beginning of the year was wet, but later, during the summer, the weather was extremely dry; the autumn was again wet. No frost was recorded until the end of November, but there was heavy S and extreme cold at the end of December.—*Herbert J. G. Ralph.*

BILLERICAY, RAMSDEN HALL.—The total R was above the average, but the six months, April to September, were very dry causing serious scarcity of water.—*T. W. Bacon.*

DANBURY RECTORY.—R 1·94 in. above, and rain days equal to, the average of 10 years.—*J. Bridges Plumptre.*

CHELMSFORD, SPERGULA.—Springs and wells failed in early autumn and caused great inconvenience, but at the end of the year all were flowing, and ponds and wells were full.—*J. C. Thresh.*

WITHAM, TERLING VICARAGE.—Although the total fall for the year was 1·36 in. above the average of 13 years, the drought in the summer was one of the worst ever experienced. From April to September only 7·24 in. of R fell compared with 17·11 in. for the winter months. There was great absence of TSS in the summer.—*H. C. Boutflower.*

FINGRINGHOE, BALLAST QUAY FARM.—R ·47 in. below the average of 10 years.—*Thomas B. Grubb.*

COLCHESTER, HILL HOUSE, LEXDEN.—A year of contrasts and extremes. January and November were the wettest in the 18 years' record, whilst July was the driest. Absolute drought for 22 days from March 27th to April 17th; partial droughts from March 25th to April 22nd, 29 days, and from June 30th to August 23rd, 55 days. The very severe summer dryness culminated in great heat in early September. The autumn was mild with heavy R; from September 13th to November 20th, 69 days, 8·81 in. fell. December was cold with the heaviest S since the winter of 1890-91.—*S. F. Hurnard.*

SUFFOLK.

IPSWICH, ROOKWOOD, COPDOCK.—The features of the year were the wetness of the first two and the last three months, the intense heat and drought during the summer, the remarkable S storm of December 25th, and the great cold of the last week of the year. The year contained in September the highest max. temp., 91°·4 and in December the lowest min. temp., 12°·1, yet recorded; mean temp. for the year was 49°·8. Duration of sunshine 1861 hours on 315 days.—*F. L. Bland.*

BOYTON RECTORY.—Fruit blossom and vegetation generally became too forward in the first three months, which were mild, and they were much damaged by the cold winds of April and May. The summer drought also injured crops in this light soil. Ponds and springs were still very low at the end of the year.—*A. Washington.*

BURY ST. EDMUNDS, WESTLEY.—R 1·75 in. above the average of 50 years. July, August and September were very dry and injurious to the turnip crop on all light lands; the harvest was very favourable.—*Robert Burrell.*

DIVISION V.—SOUTH WESTERN COUNTIES.

WILTSHIRE.

MERE VICARAGE.—R 5·37 in. above the average of 14 years.—*J. A. Lloyd.*

WARMINSTER, RYE HILL.—In spite of the drought which prevailed elsewhere, an ample supply of R fell in this district, and from an agricultural point of view the summer was a favourable one. Good crops of grass, corn and roots were grown and fairly well secured.—*Stiles E. Jefferys.*

SALISBURY PLAIN, SHREWTON.—The R was 15 per cent. above the average, the excess being mainly in January, February and October, each of which had about double the average. The dryness of the three months July, August and September was accentuated by drying winds and hot sun, and by the fact that what R fell was nearly all in small falls which did no more than lay the dust.—*F. J. Wardale.*

SALISBURY PLAIN, ORCHESTON.—The water in a well 46 feet deep 285 feet above sea level, which had turned on December 10th, 1905, at a depth of 39 ft. 3 in. from the sill, rose during January with unusual rapidity and on February 2nd was only 5 ft. 2 in. It rose

slowly till the middle of March, when it stood at 15 in., and then fell regularly at the rate of about 5 to 6 ft. per month till the middle of October, then slowly till November 11th, when the heavy October rains got through the chalk and turned it at 37 ft. 8 in. It rose slowly till the end of November, then more quickly to the end of the year, when the depth from the sill was 25 ft. 6 in.—*F. J. Wardale.*

YATESBURY.—The R was about 3·50 in. above the average. The most striking feature was that all the excessive fall took place exactly when R was an unmixed boon, and it was in July, August and September when dry weather was most desired that the R was least.—*E. D. Guillebaud.*

WOOTTON BASSETT.—R 1·32 in., and rain days 1, above the average of 16 years.—*H. Bevir.*

DORSETSHIRE.

DORCHESTER, WOLLASTON HOUSE.—Although the summer and autumn until the end of September were unusually dry, the average R for the year was exceeded by 4·08 in.—*John E. Acland.*

BERE REGIS, BLOXWORTH RECTORY.—The most noteworthy feature was the generally cold and ungenial nature of the year, although from the mildness of the winter vegetation was forward up to April. There was no excessive heat at any time during the summer and an almost total absence of TSS.—*O. P. Cambridge.*

BEAMINSTER VICARAGE.—R 2·74 in. below the average of 33 years. —*A. A. Leonard.*

DEVONSHIRE.

IVYBRIDGE, LANGHAM HILL.—The R was about 1·50 in. above the average of 18 years, but the number of rain days was proportionally much greater. The summer from June to the end of September was unusually dry and warm; there was absolute drought from September 16th to 30th, inclusive, and partial drought of 41 days from March 14th. However, nothing seemed to suffer, owing probably to having been soaked thoroughly earlier in the year, and the harvest was splendid. It was also a good year for roses.—*M. A. Glanville.*

KINGSKERSWELL, SOUTH HILL.—R 4·14 in., and rain days 12, below the average of 11 years. Absolute drought from September 16th to 30th inclusive. From March to September, inclusive, only 8·25 in. of R fell, or 7·30 in. less than the average.—*E. A. Foster.*

ASHBURTON, DOLBEAR.—The year commenced with heavy R, but

the spring and summer were abnormally dry although not excessively warm until the period of great heat at the end of August and beginning of September. The autumn was mild and not particularly wet. There was a cold snap at the end of December.—*W. W. Battiscombe.*

ASHBURTON, DRUID HOUSE.—R 5·82 in. below the average of 41 years.—*P. F. S. Amery.*

TAVISTOCK, STATSFORD, WHITCHURCH.—A damp year with about average temp. and R, but more rain days than usual. The longest wet periods were, 21 days ending January 21st with 8·96 in. of R and 15 days ending March 18th with 1·52 in., the longest dry periods were 24 days ending April 18th, (the longest since observations began in May, 1893), and 14 days ending September 30th. Partial drought from March 16th to April 23rd, 39 days, with ·36 in. of R. The max. temp. rose to or above 70° on 27 days and 80° on 3 days; frost was recorded in the screen on 41 days and on grass on 126, the latest being on May 19th and the earliest on September 26th. Mean. temp. 48°·9. Hay and corn harvests were good.—*Edwin E. Glyde.*

CHUDLEIGH, IDEFORD.—R 2·68 in. below, and rain days 6 above, the average. There were 9 periods of 7 consecutive rain days and 6 periods of 7 rainless days.—*G. J. Ford.*

CHRISTOW, KENNICK.—There was an extraordinary amount of R in January and February, when 12·40 in. fell, or 4·83 in. above the average of 29 years. From March 1st to October 1st the fall was only 10·08 in., or 9·05 in. below the average, and the discharge from the gathering ground, from which the Torquay water supply is drawn, was nearly down to the level of 1887, the driest year of which there is any record.—*Samuel C. Chapman.*

NEWTON ST. CYRES.—For the first time in 13 years the water in the Vicarage well, 57 feet in depth, partially failed. The same happened to most wells in the parish.—*J. A. Welsh Collins.*

CREDITON, OKEFIELD.—The chief point worthy of note was the extraordinary drought of March and April. From March 16th to April 21st only ·05 in. fell and from March 26th none fell for 26 days. From August 25th to September 11th the fall was only ·01 in., and then after ·98 in. on 5 days no R fell till October 1st. The country was at that time drier than it is ever remembered to have been before.—*Seymour F. Pope.*

ABBOTSHAM, RICCARDS DOWN.—R 1·70 in. below the average of 10 years.—*C. R. E. Hibbert.*

PARRACOMBE.—The drought which affected S.E. England generally was not felt at all here. September was the only really summer-like month; in July, although the R was not heavy, nearly every day was damp and foggy with very little sunshine, so that the grass was never dry enough to sit on. October was particularly wet, some R falling on 30 days.—*J. F. Chanter.*

CORNWALL.

ST. KEVERNE, LANARTH.—Springs were dry in September and October, but from an agricultural point of view the country was never burnt or badly suffering from want of water.—*P. D. Williams.*

REDRUTH, TREWIRGIE.—R 2·01 in. below the average of 27 years. Rain spells occurred from December 24th, 1905, to January 21st, 1906, 29 days with 7·72 in. of R, from February 6th to March 2nd, 25 days with 5·91 in., and from November 11th to December 6th, 23 days with 3·48 in. Partial drought from March 19th to April 23rd, 36 days with ·31 in. of R.—*Arthur Pearse Jenkin.*

ST. MABYN, PENCARROW.—R 2·18 in. below the average.—*A. C. Bartlett.*

SOMERSETSHIRE.

YEOVIL, KINGSTON.—R 3·36 in. below the average of 10 years.—*J. H. Burt.*

NORTH CADBURY RECTORY.—There was an ample supply of R for surface purposes throughout the long hot summer and "watering" was much less required than usual. By the end of the year, however, the pond here was exceptionally low.—*H. A. Boys.*

HOLFORD, WOODLANDS HOUSE.—Wet and mild generally until the early part of March when there were a few lovely warm days. The latter part of March and most of April were dry with much wind; then wet till the end of May and for the most part chilly. June and July were hot and August on the whole fine, especially in the latter half when some days were very hot. September, except for a few days in the middle, was also wonderfully fine and sunny, the early part being exceptionally hot. The last three months were generally mild and damp with sunny intervals. Fog, frost and slight S at the end of December.—*I. L. Joseph.*

EDINGTON.—The winter of 1905-6 was generally mild and wet with absence of S and frost, but the spring was cold and backward, being, with the exception of May, dry. The summer was by no

means as brilliant at in many parts of England; although the R was slightly below the average, the rain days were up to it. Till the middle of August there was absence of great heat, and during July an unusual amount of cloud and dampness. Between the summer solstice and mid-August there was no period of 7 days without measurable R. The R kept vegetation green and growing and a bountiful harvest resulted. The unsettled conditions during part of the summer were due probably to the constant prevalence of W. and S.W. winds from the Atlantic, and when these gave way to E. in late August the air became clear and the temp. rose to 90°. The autumn was wet and mild although the R of November was considerably less than in many places. The total R for the year was slightly above the average of 18 years.—*A. C. F. Luttrell.*

CRANMORE HALL.—R 4·88 in. above the average of 25 years.—*A. Moore.*

CHEWTON MENDIP, THE PRIORY.—R 5·40 in. above the average of 19 years.—*Waldegrave.*

STON EASTON.—R 3·08 in. above the average of 38 years.—*Henry E. Hippisley.*

EAST HARPTREE, HARPTREE COURT.—The R was 3·21 in. above the average of 25 years, and this in spite of the extremely small fall of April, July and September. At the end of the latter month, the springs were as low, or lower, than ever known here. This was probably owing to the small R during the winter of 1905.—*W. W. Kettlewell.*

DIVISION VI.—WEST MIDLAND COUNTIES.

GLOUCESTERSHIRE.

CLIFTON, PEMBROKE ROAD.—The R was 3 inches below the average, the deficiency occurring in the three months, July, August and September, when the aggregate fall was less than half the average. September was, with two exceptions, the driest for 51 years. The R of January and October, was on the other hand excessive.—*R. F. Sturge.*

FISHPONDS, THE GROVE.—Apart from January and October, in which months the R was excessive, the year proved favourable. This was, however, almost entirely due to the beautiful weather of the summer, the spring time on the whole having been cold and inclement. The most remarkable feature during the year was

undoubtedly the great heat at the end of August and beginning of September.—*H. H. Harding.*

STROUD, STANLEY PARK.—R 1·83 in. below the average of 17 years.—*W. J. Paley Marling.*

BIRDLIP HILL, THE KNAP.—R 1·60 in. below, and rain days 5 above, the average.—*A. S. Helps.*

GLOUCESTER, BELGRAVE ROAD.—R 1·60 in. below the average of 23 years.—*W. Piffe Brown.*

CIRENCESTER, DOLLARWARD HOUSE.—A mild, wet January and February were followed by a cold and protracted spring. Three heavy falls of R in June caused luxuriant crops, which under a most glorious summer ripened well and were gathered under the most perfect conditions. July, August and September were extremely droughty, but October and November were wet and mild. The whole year was remarkable for the great amount of sunshine.—*Charles P. Hooker.*

CIRENCESTER, FURTHER BARTON.—The total R for the year was 1·75 in. below the average of 60 years.—*J. E. A. Brown.*

HEREFORDSHIRE.

CREDENHILL.—Another dry year, more so than the amount of R shows, since the falls being in most cases small they were dried out of the ground before the next came. The moisture did not penetrate nearly so far as the soil was dry. January and October were the only wet months. The spring was late and cold and the latter part of the summer very hot.—*Richard M. Whiting.*

HEREFORD, BURGHILL COURT.—Partial drought lasted from March 14th to April 16th, 34 days, with ·28 in. of R; absolute drought from March 26th to April 11th, and from August 25th to September 10th, inclusive. The fields became very brown and bare, but the harvest was excellent both for corn and hay. The October R did a great deal of good, but wells were not yet normal at the end of the year.—*E. D. Woodhouse.*

PEMBRIDGE, BURTON COURT.—Again a lovely year with the hottest September remembered. Wells and springs were very low till October when good R fell.—*P. L. Clowes.*

KINGTON, GRAVEL HILL.—The R was 8 per cent. below the average of 32 years. Of the total, more than a third fell during January and October, whilst from March to September was extremely dry.—*G. F. Pearson.*

SHROPSHIRE.

BRIDGNORTH, ALDENHAM PARK.—Water was scarce in this district during the summer, but the R in May was very favourable to crops and grass, so that the harvest was the best and most prosperous for many years.—*T. Canning.*

WORCESTERSHIRE.

WORCESTER, BOUGHTON PARK.—A wet January, June and October, made up for an exceptionally dry July, August and September, and brought the total R to about ·50 in. above the average. The magnificent summer and high temp. during the greater part of the year made it a pleasant one, and the hay and corn harvest were excellent. On the other hand, sharp frosts in April destroyed much fruit.—*Amy A. Isaac.*

WORCESTER, BELMONT ROAD.—The most noteworthy features were the S storm of April, and the subsequent frost which caused a loss in this county of many thousands of pounds, and the period of continued dryness through July, August and September. Nothing like it occurred during any period of three months in the thirty years' record. The max. temp. in September was also a record.—*G. Baynes Wetherall.*

TENBURY, ROCHFORD.—R 3·10 in., and rain days 5, below the average.—*J. Tomson.*

WARWICKSHIRE.

STRATFORD-ON-AVON, ATHERSTONE-ON-STOUR.—During the seven months from October 1st, 1905, to April 30th, 1906, with the exception of January, the R was so slight and underground water was so deficient that wells were dry and great difficulty was experienced in watering cattle.—*F. Smith.*

ALCESTER, RAGLEY HALL.—R 2·59 in., and rain days 3, above the average of 10 years.—*Hertford.*

DIVISION VII.—NORTH MIDLAND COUNTIES.

LEICESTERSHIRE.

BLABY.—January was mild and wet, but cold winds set in in February and continued for a long time; even in June there were cold days. April was exceptionally bright with cold nights, and July, August and September were fine, with great heat at the end of

August and the beginning of September. The country became parched and pasture land looked like fields of stubble. Trees also suffered from the drought. October and November were mild and wet.—*G. F. Shoults.*

WALTHAM-ON-THE-WOLDS.—The R was 3·95 in. below, and rain days 7 above, and the fall per day ·02 in. below, the average. A rain spell lasted from October 26th to November 9th, inclusive, with 3·00 in. of R. Absolute drought from April 2nd to 17th, and partial drought from March 29th to April 23rd, 29 days with ·26 in. of R. The mean temp for the year was 47°·7, or 2°·0 above the average. There were only 33 sunless days.—*George Higgens.*

BELVOIR CASTLE.—R 1·63 in. below the average. Mean shade temp. 49°·1, or 0°·6 above the average. Duration of sunshine 1730·2 hours, or 228·9 hours, above the average; 53 sunless days.—*W. H. Divers.*

LINCOLNSHIRE.

BOSTON.—R ·71 in. above the average of 80 years.—*W. H. Wheeler.*

LINCOLN, DODDINGTON RECTORY.—The R was deficient throughout the summer, so that ditches and field ponds were completely dried up and only filled by the heavy R of October.—*R. E. G. Cole.*

HORNCASTLE, REVESBY.—The small flow from the gathering ground in the latter part of 1905 caused a deficiency of water in the reservoir on January 1st, as compared with former years, but it had risen to "winter level" by 7th. The reservoir remained full until June 9th, when storage was drawn upon until October 29th. Winter level was reached for the second time on November 10th.—*J. Shaw.*

WILLINGHAM-BY-STOW.—The year had two good ends and a bad middle, the drought in July and September being very severe. From June 29th to July 27th, the R amounted to only ·13 in.—*R. C. Bacon.*

LOUTH, WESTGATE.—R ·38 in. below the average of 35 years.—*F. Fawssett.*

HORKSTOW.—Unusually dry in April and July, and hay crops in consequence light, especially clovers. Cereal crops were good but did not finish well, wheat being deficient in head. Root crops were light owing to deficient R in July.—*E. J. Turton.*

NOTTINGHAMSHIRE.

PLUMTREE, NORMANTON-ON-THE-WOLDS.—R 1·52 in., and rain days 12, above the average of 16 years.—*T. A. Hill.*

RETFORD, BABWORTH HALL.—The lake at Babworth was drier during the summer than had ever been known before, and water had to be carted to the gardens.—*H. Denison.*

WORKSOP, HODSOCK PRIORY.—The year will be remembered for a warm and very dry summer with an exceptional outburst of heat at the end of August and beginning of September, and for a general absence of wintry weather, though there were some sharp frosts in April. A wet October brought the total R to within an inch of the average. Sunshine was in moderate excess. Harvest was early and the corn crops were fair; grass was scarce during most of the summer and turnips suffered from the drought, though mangolds yielded well. Fruit crops were only moderate.—*H. Mellish.*

DERBYSHIRE.

HAZELWOOD, CHEVIN.—R 1·37 in. above the average of 20 years. —*John G. N. Alleyne.*

WIRKSWORTH, BRIDGE HOUSE.—The R was 4·02 in. above the average of 13 years and was exceeded only 3 times in that period. Absolute drought from March 27th to April 11th.—*Thomas Gibbs.*

DIVISION VIII.—NORTH WESTERN COUNTIES.

CHESHIRE.

CHESTER, CHRISTLETON HALL.—January was wet without much frost and the remainder of the winter was changeable, with a few sharp frosts in March. Spring commenced fine but became changeable with destructive frosts on April 26th and 28th. The summer was exceptionally fine throughout and good both for hay and corn harvests. R was much needed and grazing scarce. The autumn was wet and unsettled with frequent cold rainy days and strong winds.—*John Weaver.*

CHELFORD, ASTLE HALL.—A wet year, the R being 6·12 in. above the average of 20 years, and a cold year except during June, July, the end of August and beginning of September.—*George Dixon.*

WILMSLOW, PARKSYDE.—The first quarter was the wettest on record since 1878, with 9·78 in. of R, but from March 25th to April 12th absolute drought prevailed and the summer was remarkably fine from June to September inclusive; the rainfall, 6·98 in., being the least in 29 years. October again had the heaviest fall with two exceptions in that period.—*Edward Pearson.*

LANCASHIRE.

BLUNDELLSANDS, PARK CORNER.—R 1·21 in. below the average of 30 years.—*T. Mellard Reade.*

LANCASTER, GREG OBSERVATORY.—R 3·04 in. above the average of 10 years.—*W. French.*

DIVISION IX.—YORKSHIRE.

WEST RIDING.

LANGSETT MOOR, UPPER MIDHOPE.—R 2·44 in. above the average of 11 years. The first three months were wet, but from April to September, inclusive, the total R was 3·78 in. below the average, being the least in that period, except in 1901, for 11 years. The fall in October, 7·68 in., was exceeded twice only in any month in 12 years.—*Josiah Grayson.*

WATH-UPON-DEARNE, CHAPEL STREET.—The year was as a whole warm, with a large amount of sunshine and about average R. The longest drought was from March 27th to April 12th. There were 73 sunless days, the greatest consecutive number being 5. The last frost of winter was on May 1st, and the first of autumn on September 27th.—*F. J. Burman.*

MELTHAM, HAREWOOD LODGE.—The R was about 2 per cent. above, and the rain days at least 10 per cent. above, the average. The winter months were wet, and the summer dry except May. The temp. was decidedly above the average, the whole year being mild except February and the last week in December, whilst August was warm, and October very warm. The duration of sunshine was somewhat above the average. A moderate number of TSS, but of no great intensity.—*Charles Lewis Brook.*

HUDDERSFIELD, CEMETERY.—January was mild, wild and wet; February rough and changeable; March was also severe; the first half of April was sunny and springlike, it then fell back to winter with chill winds, sleet and S showers; May was similarly divided, the second half being cold and cloudy; June was seasonable, and generally fine and dry; July also was dry and pleasant, with plenty of sunshine; August was typical in character, and also the warmest of the months; September proved the most remarkable month, on account of the extraordinary heat wave which passed over the country during the opening days, and it continued very fine and calm throughout; heavy R was welcomed in October, which only had two dry

days, and was very mild; similar conditions prevailed in November, with strong winds at the close; December followed with much wind, then a very gloomy period, and Christmas Day ushered in the severest part of the year, with biting winds and frost, and S in abundance. The total R was 8 per cent. above the average of 20 years.—*J. Firth.*

HALIFAX, HALL INGS, SOUTH OWRAM.—The R was below the average of 16 years by 2·34 in., but the number of rain days was more than in any previous year except 1903.—*George E. Aspinall.*

BIRSTWITH, SWARCLIFFE.—An average year for total R but there were heavy falls in the last three months. In September the country was drier, and springs were lower than they are ever remembered to have been.—*G. S. Greenwood.*

SEDBERGH, AKAY.—R 5·05 in. above the average of 10 years.—*C. E. Taylor.*

EAST RIDING.

THIXENDALE.—The winter was generally mild, but there was some cold weather in springtime. Harvest was early with a continuation of very fine weather favouring a rapid ingathering. Absolute drought prevailed from August 27th to September 12th, inclusive. Garden flowers continued in bloom very late, but it was a deficient fruit year, and apples alone were plentiful.—*W. H. Fox.*

NORTH RIDING.

MALTON, WELHAM.—The R was 3·62 in. below the average for the district for 30 years. The springs from the underground water supply of the East Yorkshire Wolds were lower at the end of September than at any previous time since 1868.—*Donald Walker.*

BEDALE, BURNESTON.—The summer was very dry and wells failed which had never done so before. There was, however, a good fall of R in October and November which filled most of them again. —*J. T. Hartley.*

LEYBURN, BOLTON HALL.—R ·38 in. above the average of 30 years. The R of May enabled us to survive fairly well the extreme dryness of June and July.—*F. Scrivener.*

INGLEBY MANOR.—The R was ·80 in. below the average and the temp. slightly above the average; there was much sunshine. Wheat, beans and barley were above the average and the hay crop was good. —*De L'Isle.*

EAST LAYTON HALL.—One of the best seasons on record. Splendid crops of well won hay and a heavy crop of apples; potatoes were also good and of excellent quality. The corn harvest was one of the best and lasted little over a fortnight. The last week of August and the first week of September formed the hottest fortnight ever known here.—*Elizabeth O. Proud.*

KILDALE HALL.—Although the R was slightly above the average it was a dry year until the end of September. Pastures held out badly, but somewhat better than in 1905. The principal feature of the year was the long duration of cold winds, which lasted till the beginning of June and did much harm to the barley.—*Robert B. Turton.*

DIVISION X.—NORTHERN COUNTIES.

DURHAM.

SUNDERLAND, WEST HENDON HOUSE.—The R was ·01 in. below the arithmetrical average and ·33 in. above the geometrical mean for the 46 years 1860—1905. The year was generally dry, but May and October were excessively wet, with 5·36 in. and 5·39 in. respectively. It was the wettest May on record since 1860 inclusive. Some R fell on every day of the month, but on seven of the days there was not sufficient to be measured. September was the driest month, with ·40 in. only; this was the smallest amount yet registered for this month, although in 1895 there was likewise only ·40 in. The amount of 2·00 in. in 24 hours was twice exceeded: 2·41 in. falling on May 25th and 2·13 in. on October 19th. Some R, S or H fell on 250 days in the year, reaching a measurable amount on 185. S fell on 34 days, and reached its maximum depth of 7 inches on December 28th. The maximum depth for the winter 1905–06 was only ¾ in., on the morning of March 12th. The duration of R was much below the average, especially up to April, and in September. There was a remarkable warm period from November 21st to 29th; and September 1st was the hottest day for many years. There were decided excesses of S.W., W. and N.W. winds during the year and striking deficiencies of the E., S.E. and S. winds, especially E. In the several months the most noticeable excesses were those of N.E. winds in March, of S.W. in January, March and November, and of N.W. in December; but to make up for the first named excess, E. wind was recorded as having blown for 5 hours only in March. The deficiency of S. wind in January was very pronounced. In every

month the most frequent wind was either W. or S.W. The number of days on which the alternation of sea and land breezes took place was much above the average, the excesses being most marked in April, when on 14 days of observation there were 6 such cases; and in September, when out of 23 days of observation there were 14 cases. The wind force was slightly above the average, the excess being pronounced in January. The amount of cloud was slightly above the average, but the 4 days August 30th to September 2nd, inclusive, were entirely free from cloud, not even excepting thin cirrus. This cloudless period commenced on the afternoon of August 29th, and ended at or soon after noon on September 3rd, making thus nearly five days without any cloud. So long a period entirely free from cloud has never before been observed at Sunderland. Three days only were completely overcast here during 1906. The amount of fog was above the average. T and L were rare, and solar halos rather so.—*T. W. Backhouse.*

NORTHUMBERLAND.

NEWCASTLE, TOWN MOOR.—R 2·35 in., and rain days 25, above the average of 39 years.—*Andrew Wright.*

CUMBERLAND.

MILLOM, LEYFIELD.—R 1·19 in. above the average of 16 years. Absolute drought from March 23rd to April 6th, inclusive.—*Cedric Vaughan.*

SEASCALE, WHINTHWAITE—R ·26 in. above the average of 17 years. —*Robert Hellon.*

COCKERMOUTH, ULLOCK.—After a wet January and a fine April, May was wet and retarded vegetation immensely. Warmth came with the advent of June, and a fine and fruitful summer followed. October was the wettest month with 6·72 in; the total R for the year was 2·46 in. below the average of 12 years.—*John H. Walker.*

CARLISLE, NEWBY GRANGE.—The R was 3·43 in. above the average of 10 years. Summer was fine, and all crops were good except potatoes. Autumn was late and mild with no frost till the beginning of September. Roses were still in bloom in November.—*T. H. Hodgson.*

WESTMORLAND.

AMBLESIDE, SKELWITH BRIDGE.—R 8·03 in. above the average of 17 years.—*A. J. Adams.*

GRASMERE, HIGH CLOSE.—R 1·62 in. above the average of 10 years.—*F. M. T. Jones Balme.*

DIVISION XI.—MONMOUTH, WALES AND THE ISLANDS.

MONMOUTHSHIRE.

CHEPSTOW, PIERCEFIELD PARK.—R 2·50 in. below the average.—*H. Clay.*

GLAMORGANSHIRE.

PORT TALBOT, TWYN-YR-HYDD, MARGAM.—Prolonged drought in the spring was followed by a dull summer with a good deal of fog. The only real summer weather was at the end of August and beginning of September.—*Godfrey Lipscomb.*

SWANSEA, GLANMOR CRESCENT.—R 4·62 in. above the average of 10 years.—*T. Travers Wood.*

MORRISTON, GLANRAVON.—R 11·17 in. above the average of 15 years.—*Ll. James Naysmith.*

NEATH, FAIRY LAND.—An extremely wet year, the R being 8·70 in. above the average of 22 years and falling on no less than 225 days. On 7 days the fall exceeded an inch in 24 hours.—*E. Ll. Green.*

CARMARTHENSHIRE.

LLANWRDA, DOLAUCOTHY.—The year, notwithstanding its somewhat abnormal R, nearly 60 inches, was a favourable one for farmers. The hay crop was heavy and as a rule well stored; corn and roots were also good. The open weather of the last quarter enabled farmers to keep their cattle out on grass, thus saving hay and roots. The last few days of the year, however, were rough and snowy followed by heavy R.—*J. Hills-Johnes.*

PEMBROKESHIRE.

HAVERFORDWEST, HIGH STREET.—The year was a fine one and no extremes of heat or cold were experienced. In the early part of the year, except January, cold weather prevailed, with heavy R. April was cold, but very little R fell. The summer months were fine and warm with a fair amount of R, plenty of fine weather and bright sunshine for harvesting purposes. The autumn months were uniformly mild, and there was no wintry weather until near the end of December. The rainfall exceeded the average by nearly 4 inches,

the wettest month being October, and April the driest. Duration of sunshine 1707·6 hours, which is more than in any previous year since the Campbell-Stokes instrument has been in use here; the sunniest month was July. Crops generally were excellent and harvested in good condition, except potatoes which were much diseased. Fruit crops were poor.—*E. P. Phillips.*

ST. DAVIDS.—The year was favourable for farming operations. April proved good for dressing and sowing corn land, and good crops of hay and corn were obtained and carried in satisfactory condition. Green crops were also good. Potato blight, however, appeared after a fresh S.E. breeze on July 26th and affected an abundant crop.—*D. P. Williams.*

CARDIGANSHIRE.

ABERYSTWYTH, GOGERDDAN.—The R was above the average and we did not suffer from the drought which prevailed in other parts. The fall of 4·10 in. in May gave crops a good start and afterwards R always fell before anything suffered. It was a good growing year but not good for fruit.—*H. Prosser.*

BRECON.

CRICKHOWELL, GWERNVALE.—The R was deficient in nine months out of the twelve, with the result that the total R was 5·30 in. below the average. There was a marked absence of heavy R storms and not one instance of an inch in 24 hours. There were two periods of absolute drought and the summer was usually warm and dry.—*E. Pirie Gordon.*

LLANFRYNACH, TYMAWR.—R 4·23 in. below the average of 11 years.—*R. D. Garnons Williams.*

LLANGAMMARCH WELLS.—R 2·58 in., and rain days 25, above the average of 10 years.—*W. Black Jones.*

FLINT.

BODFARI, NANTLYS.—R 2·83 in. below the average of 20 years.—*P. P. Pennant.*

DENBIGH.

DENBIGH, GARN.—The R was 1·86 in. below the average of 10 years. April was the driest on record, and the shortage of R in July and September caused a rather serious drought notwithstanding the fall of 2·52 in. in August.—*W. D. W. Griffith.*

MERIONETH.

BALA, ERYL ARAN.—The R was about 4 inches above the average of 20 years, but in spite of this the year was very fine.—*W. Burton.*

ISLE OF MAN.

DOUGLAS, WOODVILLE.—The R of 1906 was, after two comparatively dry years, about the average, but the number of rain days was in excess of it and the year's weather record is certainly a bad one. A mild, though wet and stormy January, was succeeded by a wet and cold February, and a yet colder March. With the first half of April came a decided improvement, but the 15th saw a return of veritable winterlike weather, continued without a break through the worst of Mays, and even up to June 6th. There was a fair amount of fine and even warm weather onwards through July. August was very wet with a winterlike middle fortnight, but beautiful weather set in during the last week, and September was magnificent. The later autumn months were all wet and excessively stormy. A short spell of S and H, and intensely cold N.E. winds, and with somewhat hard frosts occurred at Christmas.—*Herbert Story.*

GUERNSEY.

ST. MARTINS, LES BLANCHES.—A dry year; the dry weather began as early as March, and with the exception of May, all the months up to and including September had deficient R. The drought proper began with June and continued till the end of September, which month was a delightful extension of a fine if cold summer. With October came R and an unmistakable break-up of the fine weather, which was confirmed by heavy downpours in November. December though unsettled had a small R. Absolute droughts from May 29th to June 14th, and from September 16th to 30th; partial drought from May 27th to June 27th, 32 days, with ·18 in. of R.—*Basil T. Rowswell.*

ST. PETER PORT, ST. MARTIN'S ROAD.—The R was 3·20 in. below the average of 64 years. The duration of sunshine was 2010 hours, being 91 hours above the average, or the second greatest in 13 years. The amount of wind also exceeded the average.—*A. Collenette.*

SCOTLAND.

DIVISION XII.—SOUTHERN COUNTIES.

DUMFRIES.

DUMFRIES, IVY BANK.—R ·82 in. below the average.—*W. Andson.*

ROXBURGH.

HAWICK, BRANXHOLME.—The R was ·24 in. below the average of 25 years. It was a mild year until the few closing days, and although there was troublesome hay weather, crops were somewhat light and fruit a medium yield. It was a good year for hill farmers. Roses were blooming in the open until December.—*John G. Winning.*

LILLIESLEAF, RIDDELL HOUSE.—The R was above the average. It was a prosperous year for agriculture; a good and plentiful harvest was well got in. Grass was abundant and all animals flourished. Fruit, vegetables and flowers were equally good.—*J. Sprot*

MELROSE, DISTRICT ASYLUM.—R 8·88 in. above, or 129 per cent. of, the average of 24 years, and rain days 13 above, or 106 per cent. of, the same average. Two years only in that period had more R and four had more rain days. The max. fall in twenty-four hours, 1·13 in. on August 8th, was ·20 in. below the average max. fall.—*A. C. Pattman.*

DIVISION XIV.—SOUTH WESTERN COUNTIES.

AYR.

BARRHILL, DOCHROYLE.—R 4·03 in. below the average of 30 years. —*John Scott.*

GIRVAN, GLENDOUNE GARDENS.—From a cultivator's point of view it was a good year with temp. and sunshine both above the average. There was also a marked absence of the high winds common here in October and November.—*John Simons.*

DIVISION XV.—WEST MIDLAND COUNTIES.

STIRLING.

FALKIRK, INGLEWOOD, LAURIESTON.—R 4·48 in. above the average. The weather was changeable at times, changing suddenly and often to extremes. On the whole, except in May and August, it was fairly fine throughout.—*W. Ballantine.*

STIRLING, POLMAISE GARDENS.—Altogether a most miserable year. The heavy R of May did a great deal of harm and nothing but weeds flourished. The R of October, too, ruined much grain. September was dry but dull, and the weather of August was wretched.—*William W. Ritchie.*

BUCHLYVIE, THE MANSE.—On the whole a wet year, with several

dry months and sudden changes. The R was 2·46 in., and the rain days 20, above the average of 17 years. February, April, June, July and September had less than the average R, the other months more, especially May, October and November. June and the first half of July were very fine and dry. Harvest on the later farms, and the lifting of potatoes generally, were much hindered by the wet October.—*John A. Macdonald.*

ARGYLL.

KINTYRE, KILLEAN MANSE.—The weather in general exhibited the normal prevailing type of wind and rainy conditions. Drought lasted from March 9th till well nigh the middle of April, and there was a fortnight of dry weather in June and another in July. Little or no frost or S until the December storms.—*D. J. Macdonald.*

DIVISION XVI.—EAST MIDLAND COUNTIES.

FIFE.

ST. ANDREWS, SOUTH STREET.—More R, more sunshine and more wind than usual. Crops were fairly good and gardens did remarkably well, but wall fruit was scarce owing to the destruction of the blossom by N. winds in May.—*I. J. R. Macadam.*

KILMANY, MOUNTQUHANIE HOUSE.—The spring was dry and cold few nights being without frost. May was wet, the summer showery, cold and misty, August wet but September very fine and warm. The latter part of the year was mild, until December, which was unsettled.—*David Dinwoodie.*

PERTH.

OCHTERTYRE [STIRLING].—R 1·00 in. above the average of 23 years.—*Colin M. Dundas.*

BRACO, NETHER CAMBUSHINNIE.—With the exception of May, which was bitterly cold, wet and backward, and did great harm to crops and stock, the year was about normal.—*John W. Stirling.*

COUPAR ANGUS.—R ·88 in. above the average.—*John Robertson.*

FORFAR.

DUNDEE, BALRUDDERY—The early months were rather cold and the spring and early summer changeable, cold and backward, so that scarcely any growth was made until the beginning of May. The last months were mild and changeable, but the year closed with a severe blizzard.—*G. Davie.*

ARBROATH, DISHLAND HILL.—R 3·56 in. above the average of 17 years, and exceeded twice only in that period.—*James Campbell.*

FORFAR, LILYFIELD.—The outstanding features of the year were the aridity of April, when brilliant days and frosty nights destroyed the fruit crop, the wetness of May giving a store of water, and the S storm and blizzard at the end of December.—*A. L. Fenton.*

DIVISION XVII.—NORTH EASTERN COUNTIES.

ABERDEEN.

ABERDEEN, CRANFORD.—May was extremely wet, and much damage was done by rivers overflowing and washing away crops. June and September were dry and the latter very hot. October and November were wet and completely destroyed grain in the late districts. To finish the year the S storm of the last week of December caused much loss.—*David McHardy.*

BANFF.

CRAIGELLACHIE, CRAGGANSPEY.—The greatest R for several years, being about 9 inches above the average of 9 years.—*J. Shearer.*

DIVISION XVIII.—NORTH WESTERN COUNTIES.

INVERNESS.

GLENELG MANSE.—The spring months, with the exception of the first ten days of April, were very severe, and there was a heavy fall of S in February which lay on the ground for a long time. About the middle of July a severe storm of R visited the district in which nearly 4 inches fell in 48 hours. November and December were stormy.—*Alex. Mactaggart.*

FORT AUGUSTUS, ST. BENEDICT'S.—R 6·91 in. above the average of 20 years.—*Cyril von Dieckhoff.*

LOCH NESS, DRUMNADROCHIT.—The total R was 4·23 in., and rainy days 19, above the average of 20 years, but the year will be popularly remembered as a dry one since the fall from April to September, inclusive, was only 13·00 in., or less than one-third of the whole.—*Angus Grant.*

ROSS AND CROMARTY.

ALNESS, ARDROSS CASTLE.—The spring months were rather cold and wet, May exceptionally so, but June, July and September were fine. August was wet, and October and November very wet with

fine spells at times. December was normal except for unusually high temp. for a few days about 20th and the great S storm on 26th and 27th.—*William Laing Minty.*

DIVISION XIX.—NORTHERN COUNTIES.

SUTHERLAND.

ALTNAHARRA.—There were exceptionally long spells of dry weather in the summer months, but the ground had been well saturated by the heavy R earlier. The year ended with continuous R and high wind.—*George Mackay.*

IRELAND.

DIVISION XX.—MUNSTER.

CORK.

DUNMANWAY, THE RECTORY.—The middle of the summer, from June 18th to August 26th, was damp and cool, but the first half of June and from August 27th to September 30th were dry and warm. From March 18th to April 30th was also a dry period, and the R was small in December. The winter was mild until Christmas Day.—*Arthur Wilson.*

MALLOW, SUMMER HILL.—The R was no less than 6·51 in. below the average and, with the single exception of 1896, the lowest in the record.—*J. F. Williamson.*

MITCHELSTOWN CASTLE.—The year was favourable for agriculture and dry spells occurred in seed-time and harvest. There was a good fall of R in May and July, though not excessive. The two months preceding Christmas were mild and fairly dry, but the weather broke up after Christmas Day.—*W. D. Webber.*

WATERFORD.

WATERFORD, BROOK LODGE.—R 6·83 in. below the average.—*C. Perceval Bolton.*

TIPPERARY.

CAHIR, BENGURRAGH.—The river was low during the year and there were remarkably few floods. Wells also were exceptionally low from June onwards and did not recover before December. It was a bad year for salmon fishing but excellent for wheat and potatoes.—*R. W. Smith, jun.*

NENAGH, CASTLE LOUGH.—R 2·88 in. below the average of 30 years. —*S. G. J. Parker-Hutchinson.*

NENAGH, HIGHLANDS.—January and part of February were rather wet but mild, with some strong cold winds and occasionally a slight covering of S. There was some heavy R in March and cultivated land was too wet to be worked, but the summer proved favourable and the return of produce was generally fair whilst crops were got in in pretty good time before the heavy R of October. The autumn was on the whole favourable.—*John Mounsey.*

LIMERICK.

LIMERICK, ROXBOROUGH.—The R was above the average and the summer was dull and damp until September, which was a warm, bright month. August was very cool and windy. There were two S falls during the last three weeks of the year, a quite unprecedented occurrence in this quarter of the kingdom.—*A. W. Shaw.*

CLARE.

NEWMARKET-ON-FERGUS, CARRIGORAN.—The R was slightly above the average. Spring was wet and cold, and May bleak and sunless, with frost about the middle and much easterly wind. The first half of June was very fine, but the remainder of the summer was wet with remarkable absence of sunshine. September was fine with temp. above the normal.—*Alfred Barker.*

BROADFORD, HURDLESTOWN.—R 2·01 in. above, and rain days 1 below, the average of 21 years.—*W. Bentley.*

ENNISTYMON HOUSE.—About an average year for R with no abnormally heavy falls. It was a great year for grass, but hay was difficult to save owing to the number of wet days between July 1st and September 16th.—*H. V. Macnamara.*

DIVISION XXI.—LEINSTER.

WEXFORD.

TEMPLEUDIGAN, BALLINDONEY.—R 11·63 in. below the average of the 10 years 1895 to 1904.—*Janssen Budgen.*

CARLOW.

CARLOW, SUNNYSIDE.—The water in the river Barrow was at the lowest level known for 40 years.—*E. Shackleton.*

QUEEN'S COUNTY.

ABBEYLEIX, BLANDSFORT.—R 5·27 in. below the average of 30 years. Wells and springs were very low.—*John Loftus Bland.*

KILDARE.

CLONGOWES WOOD COLLEGE.—The year was chiefly noteworthy for the small quantity of R. Also there was scarcely any T during the year. The great heat about the end of August and beginning of September was striking; the last week of December was extremely cold.—*W. P. Hackett.*

DUBLIN.

BALLYBRACK, STREAMVILLE.—The R was 7·84 in. below the average of 30 years and the least in that period except that of 1893 and 1887.—*F. B. Falkiner.*

KILLINEY, CLONEEVIN.—R 5·67 in. below, and rain days 17 above, the average of 21 years.—*R. O'B. Furlong.*

RATHMINES, LEINSTER ROAD.—The year was chiefly remarkable for the fine, bright and warm summer. The max. temp., 84°·2, was the highest in the record, and there was little T, L or H. With the exception of January, May and October, every month in the year had R below the average and the max. fall in 24 hours, ·67 in., was by far the least recorded since observations commenced in 1882. There was no continued frost, but S showers were rather frequent in January, March and December. Gales were few and not severe, but two occurred in July, an unusual event.—*E. H. Cannon.*

BALBRIGGAN, ARDGILLAN.—The R was 2·07 in. below, and the rain days 6 above, the average of 13 years.—*Edward Taylor.*

DIVISION XXII.—CONNAUGHT.

GALWAY.

WOODPARK [SCARIFF].—R ·38 in. below, and rain days 8 above, the average of 10 years.—*R. F. Hibbert.*

DIVISION XXIII.—ULSTER.

CAVAN.

BALLYCONNELL HOUSE.—R 4·00 in. above the average of 14 years. —*S. B. Roe.*

ARMAGH.

LURGAN, BELLE VUE.—The R was ·92 in. below, but the rain days 7 above, the average of 10 years.—*Samuel A. Bell.*

DOWN.

BANBRIDGE, MILLTOWN.—R ·79 in. above the average of 40 years. —*J. Smyth.*

ANTRIM.

BELFAST, QUEEN'S COLLEGE.—R 2·57 in. above the average of 40 years.—*George Robinson.*

BELFAST, SPRINGFIELD.—March and the first half of April were springlike. This was followed by S and the wettest May for 14 years. June was, however, the driest for 13 years and July an ideal month for holiday makers. August, although the wettest month, had some hot days and September was the driest for 11 years. The two following months were cold and rainy, and December quite wintry with seasonable frost and S.—*Thomas G. Firth.*

BALLYMENA, HARRYVILLE.—R 2·46 in. above the average of 30 years.—*J. R. Williams.*

LONDONDERRY.

LIMAVADY, DRENAGH.—From a farmer's point of view the year was a good one for growing crops and grass. September, the harvest month, was excellent for saving grain, and in November, although 3·40 in. of R fell, there were dry and frosty spells for "pitting" roots and carting.—*M. M. McCausland.*

DONEGAL.

FANAD, TAMNEY RECTORY.—The year was chiefly remarkable for its excess of precipitation and scantiness of sunshine. There were no fewer than four rain spells and January and August were extremely rainy. June and September, however, were dry. The heavy R in August utterly ruined the potato crop, which was the worst for many years.—*A. C. Digby-French.*

LOUGH SWILLY, CARRABLAGH.—With the exception of 1899 the wettest year in the past 20. This arose chiefly from the wet winter and spring. January had 7·19 in., or nearly two inches more than the previous wettest. September was dry and warm and an unusually beautiful month.—*H. C. Hart.*

HEAVY RAINS IN SHORT PERIODS.

We referred last year to an expedient adopted with the hope of receiving suggestions for the improvement of this section. We regret that the small hope we entertained of some improvement resulting has been disappointed. It is here that the use of recording rain gauges should produce the most valuable results; but although we know that many more recording gauges were at work in 1906 than in 1905, we find little inclination on the part of their owners to make full use of their records.

The following list is prepared exactly as in earlier years. The figures which it contains have all been culled from the "Remarks of Observers on the Days," and from *Symons's Meteorological Magazine.* Those which are vaguely put, such as "about an inch in nearly an hour," are, of course, omitted; those which are not quite definite, as, for instance, when a few drops of rain had fallen before the measurement taken of the amount deposited by a timed shower, are marked with a query; and when the timed amount though definitely measured is in no way remarkable, no notice is taken of it. We do not willingly disparage any part of our work, and, indeed, it is only in contrast with the exhaustive fulness of the subsequent sections—the data for which are selected and treated on a rigidly accurate system—that the present one can be looked on as unsatisfactory. It is, in fact, just as good as it has ever been.

Eighty-four instances of timed falls in 12 hours or less have been placed on record for 1906, comparing with 80 as the average of the twelve previous years. It is perhaps better to compare the number of falls in less than two hours, and this we can do for 14 years.

Entries of less than Two Hours' Duration.

	No. of Entries.	Average Rate per hour.
Average, 1892—1905	56	1·83 in.
1906	65	1·93 ,,
Difference.....	+9	+·10 ,,

The large number of heavy falls in 1906 and their great intensity are both due mainly to the small but violent Guildford storm of August 2nd, a storm that happened to affect a district more than usually well supplied with rain gauges, tended by keen observers. The following are the most remarkable of the heavy falls reported:—

Date.	Div.	Station.	Amount.	Duration.		Rate per hour.
			in.	hr.	min.	in.
Aug. 2	II.	Guildford, Piccard's Rough ...	·89	0	8	6·68
,, ,,	,,	Godalming, Charterhouse	·77	0	8	5·78
,, ,,	,,	Haslemere, Hazelhurst	·66	0	8	4·95
,, ,,	,,	,, Lower Street	1·46	0	15	5·84
,, ,,	,,	Grayshott	1·17	0	15	4·68
,, ,,	,,	Guildford, Maori Road	1·01	0	17	3·56
,, ,,	,,	,, Hillside	1·04	0	20	3·12
,, 8	IV.	Burnham Overy Staithe	1·30	0	30	2·60
May 9	II.	Burwash.....	2·18	1	30	1·44

The record at Piccard's Rough, Guildford, of ·89 in. in 8 minutes is the most remarkable we have ever had occasion to notice. No other instance of so great a fall in so short a time has been observed before, so far as we can ascertain, and it is possible that the heavy fall at Charterhouse is also unprecedented.

Heavy Rains in Short Periods in 1906.

Date.	Div.	Station.	Amount.	Duration.		Rate per hour.
			in.	hr.	min.	in.
Aug. 17 ...	I.	St. Pancras, Camden Square..	·12	...	4	1·80
Oct. 8 ...	,,	,, ,, ,,	·16	...	5	1·92
July 27 ...	,,	,, ,, ,,	·11	...	5	1·32
Aug. 13 ...	VIII.	Rochdale, Fieldhead	·20	...	7½	1·60
Oct. 1 ...	,,	,, ,, ...	·16	...	7½	1·28
Aug. 2 ...	II.	Guildford, Piccard's Rough ..	·89	...	8	6·68xx
,, ,, ...	,,	Godalming, Charterhouse.....	·77	...	8	5·78xx
,, ,, ...	,,	Haslemere, Hazelhurst	·66	...	8	4·95 x
June 17 ...	IX.	Meltham, Harewood Lodge ...	·41	...	8	3·07
Aug. 15 ...	V.	Tavistock, Whitchurch.....	·18	...	8	1·35
May 2 ...	XXI.	Coolatore	·18	...	8	1·35
Aug. 2 ...	II.	Emsworth, Watergate	·44	...	9	2·93
,, 22 ...	IV.	Bulmer Lodge [Sudbury]	·41	...	10	2·46
June 17 ...	VII.	Cropwell Butler	·35	...	10	2·10
,, 28&29	II.	Purley, Riddlesdown Road ...	·30	...	10	1·80
,, 16 ...	,,	Abingdon, Park Road	·26	...	10	1·56
May 12 ...	III.	Milton Bryant.....	·23	...	10	1·38
Aug. 13 ...	II.	Sulhamstead.....	·22	...	10	1·32
Sept. 16 ...	IV.	Copdock	·21	...	10	1·26
Aug. 2 ...	V.	Stratford-sub-Castle	·33	...	12	1·65
,, 13 ...	,,	Banwell.....	·30	...	12	1·50
,, 2 ...	II.	New Malden, Edenfield	·33	...	13	1·52
,, 8 ...	IX.	Bolton Percy	·40	...	14	1·71
,, 2 ...	II.	Haslemere, Lower Street	1·46	...	15?	5·84 x
,, ,, ..	,,	Grayshott.....	1·17	...	15	4·68 x
July 27 ...	IV.	Havering	·50	...	15	2·00
May 24 ...	,,	Norwich, Eaton	·32	...	15	1·28
Aug. 2 ...	,,	Lea Bridge Road.....	·44	...	15	1·74
Oct. 28 ...	V.	Weymouth	·35	...	15	1·40
,, 22 ...	VIII.	Rochdale, Fieldhead	·34	...	15	1·36
Aug. 2 ...	II.	Guildford, Maori Road	1·01	...	17	3·56 x

Heavy Rains in Short Periods in 1906—*continued.*

Date.	Div.	Station.	Amount.	Duration.		Rate per hour.
			in.	hr.	min.	in.
Aug. 18 ...	X.	Newcastle, Northumberland Road	·43	...	18	1·43
,, 2 ...	II.	Petersfield, Ditcham Park ...	·72	...	20	2·16
,, 8 ...	IV.	Swaffham	·85	...	20	2·55
,, 2 ...	II.	Guildford, Merrow	·64	...	20	1·92
June 23 ...	V.	Weymouth	·54	...	20	1·62
Aug. 2 ...	II.	Guildford, Hillside	1·04	...	20	3·12 x
July 12 ...	,,	Bournemouth, Kempsey	·60	...	22	1·64
Aug. 2 ...	,,	Weybridge	·40	...	24	1·00
June 16 ...	III.	Wendover, Halton	·48	...	25	1·15
Aug. 13 ...	VIII.	Rochdale, Fieldhead	·52	...	30	1·04
,, 8 ...	IV.	Burnham Overy Staithe	1·30	...	30	2·60 x
July 27 ...	II.	Erith, Crossness	1·00	...	30	2·00
June 23 ...	V.	Sidmouth	·97	...	30?	1·94?
June 10 ...	VI.	Bromyard, Rowden Abbey ...	·87	...	30	1·74
Aug. 14 ...	XV.	Killearn	·64	...	30	1·28
May 12 ...	II.	Ramsgate	·60	...	30	1·20
April 30 ...	IV.	Sudbury	·50	...	30?	1·00?
July 3 ...	V.	Liskeard, Trevillis	·54	...	30	1·08
May 8 ...	I.	Hampstead, Frognal	1·08	...	32	2·02
July 6 ...	IV.	Swaffham	·77	...	35	1·32
May 13 ...	V.	Harptree Court	1·35	...	42	1·93
July 27 ...	III.	Northwood, The Grange ...	1·40	...	43	1·95
,, ,, ...	IV.	Reepham, Whitwell Vicarage.	1·13	...	45	1·51
Aug. 2 ...	,,	Yarmouth, Market Place	·85	...	45	1·13
,, 12 ...	XXIII.	Ballyconnell	1·16	...	47	1·48
Oct. 28 ...	VIII.	Liverpool, West Derby	1·28	...	50	1·54
July 27 ...	III.	Watford	1·32	...	55	1·44
,, ,, ...	IV.	Reepham, Whitwell Vicarage	1·25	1	0	1·25
Aug. 7 ..	VI.	Ludlow, Ashford House	1·06	1	0	1·06
June 25 ...	III.	Somersham Vicarage	1·00	1	0	1·00
Aug. 2 ...	XII.	Lochmaben	1·10	1	15	·88
,, 8 ...	IV.	Yarmouth, Market Place	1·10	1	15	·88
May 9 ...	II.	Burwash	2·18	1	30	1·44 x
Aug. 2 ...	XI.	Haverfordwest, High Street...	1·37	1	30	·91
,, 9 ...	XIV.	Biggar, Cambus Wallace	1·78	2	0?	·89?
May 9 ...	II.	Ticehurst, Myskyns	1·85	2	15	·82
,, 13 ...	V.	Wylye	2·52	2	45	·92
,, ,, ...	,,	Frome, Mells	3·00	5	0	·60 x
,, ,, ...	,,	Gillingham	2·36	7	0	·34
June 28&29	II.	Burgh Heath	1·94	7	30	·27
,, ,, ...	,,	Wellington College	2·04	8	0	·31
,, ,, ...	III.	Haileybury	2·45	8	45	·25
,, ,, ...	II.	New Malden	2·05	8	45	·23
,, 29 ...	IV.	Marylebone, Northwick Terr.	2·10	9	30	·22
,, 16 ...	III.	Thrapston, Islip	3·00?	10	0	·30?
,, 28 & 29	,,	Kensworth	2·30	11	0	·21
,, ,, ...	,,	Sawston	2·09	11	0	·19
,, ,, ...	I.	Fulham, Edith Road	2·29	11	45	·19
,, 29 ...	,,	St. Pancras, Camden Square..	2·28	11	45	·19
May 13	IV.	Norwich, Brundall	3·21	12	0	·27
June 28&29	III.	Harrow Weald	2·46	12	0	·21
Aug. 2 ...	XI.	Criccieth, Talarvor	2·11	12	0	·18
June 28&29	III.	Staines, Belle Vue	2·03	12	0	·17

HEAVY FALLS ON RAINFALL DAYS IN 1906.

THE total number of records taken daily during 1906, returns of which were received to be dealt with in this section, amounts to 3365, 115 more than those for 1905, which, in turn, were 157 more than for 1904. The increased mass of data has been subjected to the usual process of examination, the method of which was so fully described last year that it is unnecessary to deal with it now in detail.

The heaviest fall on any rainfall day in the year is referred to as the M or maximum fall, and it is extracted in every case together with the total annual fall and the percentage which the M bears to the total. The general results are given in Part II., the Abstract, while the more interesting details are dealt with somewhat fully in Part I., the Chronicle.

For the Chronicle, the heaviest of the maximum falls alone are considered, and the selection is made in such a way that all M exceeding 2·50 in. are recorded, and also all smaller M which amount to 7·5 per cent. or more of the annual total. There is no special importance in these limiting values, but they were selected so long ago that it is now possible to make interesting comparisons with a considerable number of past years.

On a few days in each year very widespread or very intense falls of rain occur, and these are dealt with in great detail in a series of maps constructed from the M and from the rainfall at a great number of surrounding stations where the day in question did not happen to be the wettest of the year. These maps, though reproduced on a small scale on account of our small resources, were drawn on a scale of 20 miles to an inch, and they are not mere diagrams, but accurate representations of the detailed distribution of rainfall. The track of the centre of any atmospheric depression crossing our islands on the day in question is taken from the *Monthly Weather Report* of the Meteorological Office.

It may be recalled that the "day" referred to in the Chronicle is always the rainfall day of twenty-four hours commencing at 9 a.m. on the date mentioned. A few records at variance with the rest

because the gauge is read at some other hour than 9 a.m., cannot be fully utilized in the discussion.

Part I.—Chronicle.

January 2nd.

The first heavy rainfall occurred early in the year, but affected only the extreme south of England and the south-east of Ireland, about 150 stations recording their M. Some remarkable falls were recorded in Sussex and Hampshire, three of them claiming notice on account of their large amount :—

II.	Cosham (Purbrook Grange)	2·65 in. or	8·0 per cent.
,,	Lyndhurst (Cadenham Grange)	2·94 ,,	7·9 ,,
,,	Horndean (Blendworth Lodge)	2·53 ,,	6·2 ,,

January 28th.

A wet day in the Lake District and in the northern Highlands, about 40 M being recorded ; amongst them being the greatest day's fall in the year for the British Isles, that at Seathwaite, 6·15 in. This figure as the highest M for the year has only been exceeded in 10 out of the last 42 years.

X.	Borrowdale (Seathwaite)	6·15 in. or	4·7 per cent.
,,	,, (The Moraine)	3·15 ,,	3·4 ,,
,,	Buttermere (Hassness)	3·72 ,,	3·6 ,,
,,	Elterwater Hall	3·16 ,,	3·3 ,,
,,	Rydal (The Stepping Stones)	2·60 ,,	3·1 ,,
,,	Grasmere (High Close)	3·12 ,,	3·5 ,,
,,	,, (The Wray)	3·09 ,,	3·3 ,,
XVIII.	Loch Lochy (Invergloy)	2·77 ,,	3·7 ,,
,,	Loch Ness (Whitebridge)	2·57 ,,	3·9 ,,

February 12th.

An isolated heavy fall in the extreme north of Scotland.

XIX.	Bettyhill	3·16 in. or	7·8 per cent.

March 16th.

The M occurred at about 40 stations in the west of Scotland, notable falls occurring at the 15 stations specified below. The day was wet in most parts of Scotland, producing high floods in the rivers.

XIV.	Lochwinnoch (Garthland)	2·55 in. or	3·7 per cent.
,,	Shaws W.W. (Gryfe Reservoir)	2·70 ,,	4·3 ,,
,,	,, (Compensation Reservoir)	2·55 ,,	3·6 ,,
,,	,, (Loch Thom)	2·77 ,,	4·1 ,,
,,	,, (New Yetts Dam)	2·50 ,,	3·8 ,,
XV.	Arrochar House	3·80 ,,	4·3 ,,
,,	Strathblane (Craigend Castle)	2·65 ,,	4·5 ,,

XV.	Dunoon (Reservoir)	2·71 in. or	3·1 per cent.
,,	,, (Redhurst)	2·64 ,,	3·3 ,,
,,	Loch Eck (Benmore)	2·98 ,,	3·3 ,,
,,	Inveraray (Newtown)	2·90 ,,	3·9 ,,
,,	Ballachulish House	2·64 ,,	3·0 ,,
,,	,, (Glencoe)	3·70 ,,	4·3 ,,
XVI.	Balquhidder (Stronvar)	2·52 ,,	3·6 ,,
XVIII.	Loch Shiel (Glenfinnan)	2·88 ,,	2·7 ,,

May 5th.

About 20 very moderate M occurred in the extreme south-west of England and in South Wales, but only one claims notice.

XI.	Port Talbot (Margam)	2·50 in. or	5·0 per cent.

May 8th.

A prolonged thunderstorm in the middle valley of the Thames brought some large falls; and heavy rain in several parts of the north of England produced floods that did considerable damage. M only occurred at about 15 stations, however, and only two need be quoted.

III.	Henley-on-Thames (Greys)	2·24 in. or	7·7 per cent.
VII.	Glossop (Corporation W.W.)	2·54 ,,	5·8 ,,

May 13th.

Severe thunderstorms in Norfolk (where the resulting rain was divided between two rainfall days), Hampshire and Somerset, brought M to about 45 stations in those counties; the amounts in some cases would be much greater if the figure applied to the 24 hours which included the whole storm.

IV.	Moulton	1·99 in. or	7·7 per cent.
,,	Norwich (Brundall)	2·46 ,,	8·2 ,,
V.	Wylye Rectory	2·82 ,,	7·6 ,,
,,	Frome (Mells)	3·00 ,,	7·9 ,,
,,	Downside Abbey	3·00 ,,	6·8 ,,

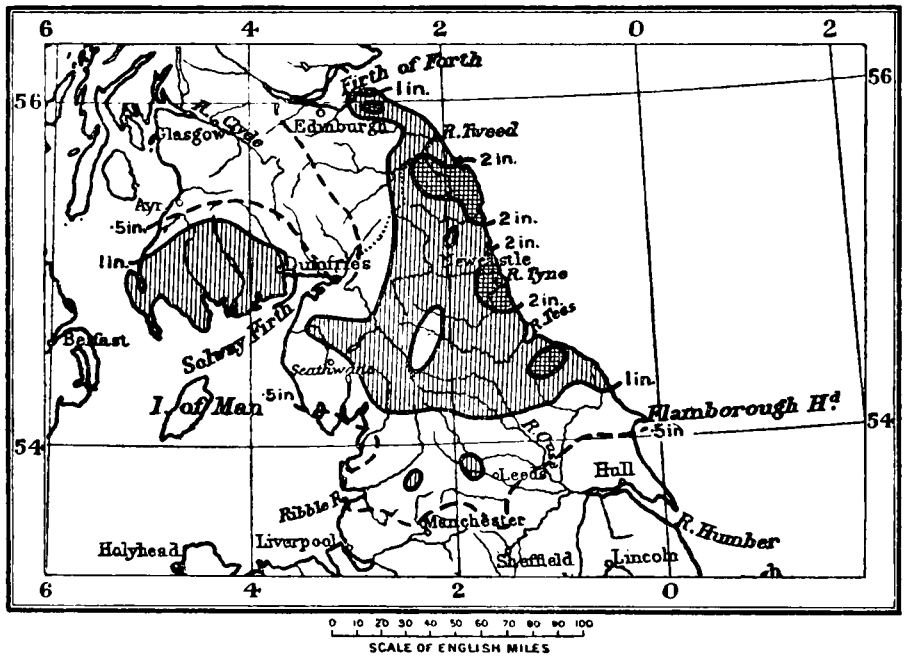
May 19th.

A widespread rain of no great intensity produced M at about 125 stations in the north of England and South of Scotland, giving rise to floods in some districts. As the area affected was large, a map of this fall was prepared and is reproduced.

There was no well-marked cyclonic system associated with this storm, but there was an irregular depression lying nearly stationary over the eastern coasts of the North Sea. Falls exceeding half-an-inch occurred across the whole breadth of England north of a line drawn from Blackpool to Flamborough Head, but did not extend north of the Firth of Forth on the east nor beyond Ayrshire on the

west, while a comparatively dry tract reaching as far south as Carlisle separated the two sides. About 1970 square miles in the south west of Scotland and 7030 square miles in the north-east of England and south-east of Scotland had more than an inch of rain

MAY 19TH 1906.



in the 24 hours, the heaviest falls occurring along the east coast, where four detached areas lying almost in a straight line had each more than two inches of rain. These were separated by much drier strips, and the linear arrangement closely resembled that figured in *British Rainfall*, 1904, p. [125]. Measurement shows :—

	Area, sq. miles.	General Rainfall, inches.	Volume of Rain sq. miles x inches.
Over 2 inches.....	925	2·26	2095
1–2 ,, ...	8075	1·35	10877
Total.....	9000		12,972

From these figures we deduce a general rainfall of 1·44 in. over the 9000 square miles the fall on which exceeded one inch.

IX.	Bedale (Fencote).....	1·77 in. or	7·3 per cent.
,,	Ingleby Greenhow	2·52 ,,	7·4 ,,
,,	Whitby (Royal Crescent)	1·77 ,,	8·4 ,,
,,	,, (Mulgrave Castle)..	2·53 ,,	9·4 ,,
,,	Skelton Castle.....	1·96 ,,	7·8 ,,
X.	Seaham (Dalton)	2·50 ,,	10·3 ,,
,,	,, Harbour.....	2·23 ,,	8·9 ,,
,,	,, Hall	2·10 ,,	8·4 ,,

X.	Ryhope Pumping Station	2·33 in. or	9·3 per cent.
,,	Burnopfield	2·53 ,,	8·7 ,,
,,	Sunderland (W. Hendon House)	2·43 ,,	9·4 ,,
,,	,, (Mowbray Park)	2·25 ,,	8·7 ,,
,,	,, (The Cedars)	2·47 ,,	9·2 ,,
,,	,, (Cleadon)	2·52 ,,	10·0 ,,
,,	Newcastle (Lit. and Phil. Soc.)	2·50 ,,	7·8 ,,
,,	N. Shields (Dockwray Square)	2·53 ,,	9·4 ,,
,,	Tynemouth (Tyne Piers Works)	2·58 ,,	9·2 ,,
,,	Howick Hall	2·44 ,,	7·9 ,,
,,	Ilderton (Lilburn Cottage)	2·56 ,,	7·8 ,,
,,	Wooler (Fenton)	2·53 ,,	7·2 ,,

June 16th.

Thunderstorms in the Midlands produced a dozen or so **M**, only one of which, however, comes within our limits.

III.	Watford Court	2·37 in. or	8·5 per cent.

June 28th.

This was the most remarkable wet day of the year, and one of the most remarkable for widespread rain in the annals of *British Rainfall.* **M** were recorded from the extraordinary number of 940 stations (more than a quarter of the stations with daily observations), and of these no less than 221 were important enough to be recorded below. This is the longest list of **M** which has ever appeared in these pages, and may be compared with the three which come next :—

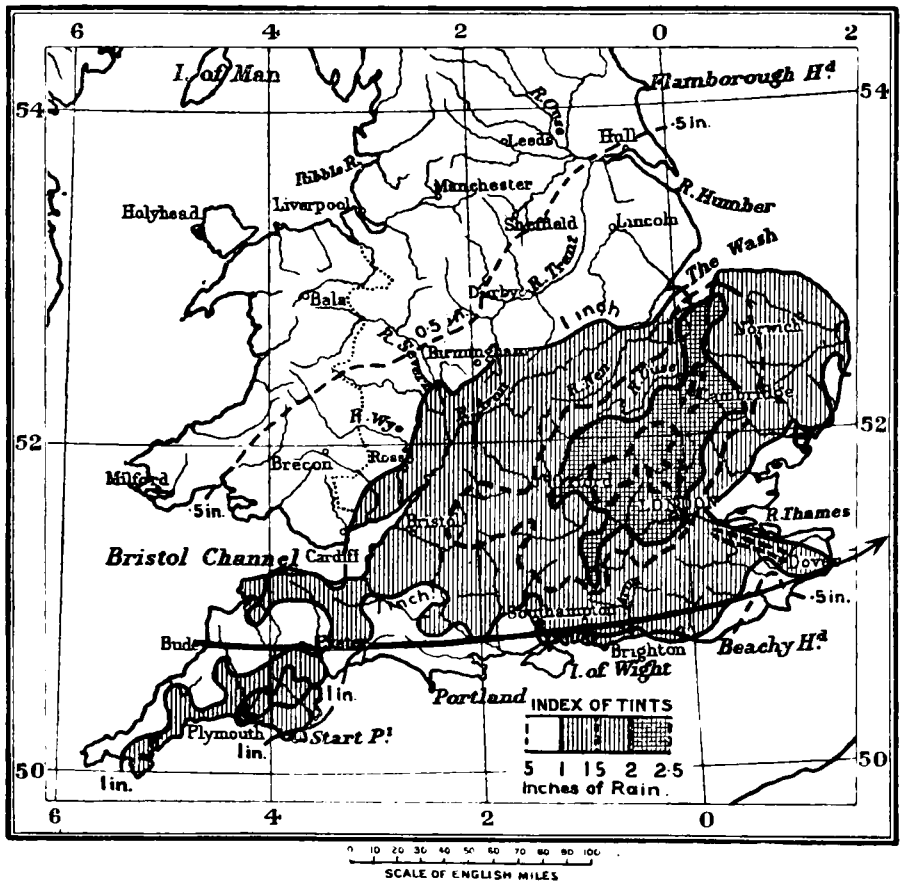
Date.	No of **M**.	No. of records quoted.	Area of country with more than 1 in of **R**, sq. miles.
June 28th, 1907	940	221	23,990
December 30th, 1900	806	174	26,700
August 27th, 1892	—	154	—
September 10th, 1885	560	142	—

The comparison by stations is scarcely a fair one, for the great fall of June 28th was central in that part of the country in which the observing stations are most closely grouped, and the number of stations is also increasing rapidly from year to year. It is better to compare the area of country with falls exceeding one inch, or the total volume of rain precipitated ; but as yet the number of instances of heavy falls which have been investigated with the degree of detail now employed is too small to repay the comparison. It is clear, however, that the fall of June 28th, though widespread, was not by any means the greatest on record, while the total volume of rain precipitated has very often been exceeded.

The fall of June 28th was continued for a few hours into the rainfall day of the 29th ; and as the storm producing it was one of

the cyclonic type, similar to that which produced the memorable deluge of June 13th—15th, 1903, we have treated the fall of the two days together in preparing the map, so that it represents the total rain-producing effect of the atmospheric depression which skirted the south coast of England eastward on June 28th—29th. The actual duration of rain was something less than 12 hours, and it commenced in most places about midnight on the 28th, so that although the measurement made at 9 a.m. on the 29th is technically entered to the 28th, the actual fall took place almost entirely in the civil day of the 29th.

JUNE 28TH—29TH 1906.



A preliminary study of this heavy fall was made within a few days of the occurrence and published with a map in *Symons's Meteorological Magazine* of July, 1906. It is interesting to compare that map with the far completer one now produced, in the preparation of which the records of all the rainfall stations in the area affected were utilized, and to observe how the general outline has

been filled with detail without undergoing any material alteration. The track of the accompanying atmospheric depression is now given from the *Monthly Weather Report*, in which it differs somewhat from the track shown in the Magazine, which was taken from the *Daily Weather Report*. The wettest area, as will be seen, lies entirely to the left of the cyclone track, and forms a band inclined forward at an angle of 45° to the track. This may be looked upon, in the light of the maps published in these pages during the last few years, as the usual arrangement of the rain area in such a cyclone.

The areas with heavy rainfall were :—

	Area, sq. mile.	General Rainfall, inches.	Volume of Rain, sq. miles x inches.
Over 2 inches.....	3610	2·34	8449
1—2 ,, ...	20380	1·37	27861
Total.....	23,990		36,310

The general rainfall over the area of nearly 24,000 square miles with more than one inch of rain is deduced from these figures as 1·51 in.

The area with more than 2 inches on this occasion extended for 60 miles from Abingdon to Greenwich, and for 140 miles from Liphook to Sandringham, while within it a large area on the Chilterns and a small area near Cambridge had more than 2·50 in. One station within the area over 2 inches recorded 3·30 in., but as there were other stations in close proximity which all agreed in giving a fall averaging 2·30 in., we are inclined to believe that the observer made a slip in noting the amount, and we do not place the fall on record. The whole south of England, south of a line from Cardiff to Birmingham and thence through Leicester to the Wash, had more than 1·00 in., the only exceptions being parts of Cornwall and Devon, an irregular strip along the south coast and the borders of the Thames estuary. Towards the north the rain diminished uniformly, and north of a line drawn from Carmarthen through Stafford to Hull it was less than ·50 in.

I.	Kensington (V. & A. Museum)	2·05 in. or	9·3 per cent.
,,	,, (Holland House)	2·05 ,,	8·9 ,,
,,	,, (Addison Gardens)	2·20 ,,	10·0 ,,
,,	,, (Campden Hill).....	2·01 ,,	8·3 ,,
,,	Fulham (W. Kensington, Edith Road) ...	2·20 ,,	9·6 ,,
,,	Chelsea (Pumping Station)	1·92 ,,	8·4 ,,
,,	,, (Physic Gardens)	2·04 ,,	9·3 ,,
,,	,, (St. Luke's Gardens)	2·16 ,,	8·9 ,,
,,	Westminster (Winchester Street)	2·40 ,,	10·0 ,,
,,	,, (Chester Square).....	1·92 ,,	8·4 ,,

I.	Westminster (Buckingham Palace)	2·00	in. or	8·7	per cent.
,,	,, (Kensington Gardens)	1·64	,,	7·8	,,
,,	,, (St. James's Park)	2·07	,,	9·4	,,
,,	,, (Spring Gardens)	2·04	,,	9·7	,,
,,	,, (Strand)	2·01	,,	8·8	,,
,,	St. Marylebone (Northwick Terrace)	2·10	,,	8·7	,,
,,	,, (Hamilton Terrace)	1·85	,,	7·7	,,
,,	Hampstead (Barrow Hill)	1·99	,,	9·0	,,
,,	,, (Frognal)	2·04	,,	7·8	,,
,,	,, (Burrard Road)	2·16	,,	7·7	,,
,,	,, (Kidderpore Reservoir)	2·11	,,	8·4	,,
,,	,, (Bathing Pond)	1·95	,,	9·3	,,
,,	St. Pancras (Camden Square)	2·21	,,	9·1	,,
,,	Stoke Newington (New River Filter Beds)	2·33	,,	10·2	,,
,,	,, (,, Reservoirs).	2·25	,,	9·8	,,
,,	Hackney (Clapton Pond)	2·50	,,	10·7	,,
,,	Holborn (Stone Yard)	2·20	,,	9·6	,,
,,	Finsbury (New River Head)	2·44	,,	11·1	,,
,,	City of London (Guildhall)	2·12	,,	9·2	,,
,,	Shoreditch (City Road)	2·22	,,	9·2	,,
,,	Stepney (Mile End)	2·00	,,	8·3	,,
,,	,, (Nature Study Museum)	2·02	,,	9·6	,,
,,	Poplar (Isle of Dogs)	1·81	,,	7·9	,,
,,	,, (Old Ford)	1·82	,,	8·3	,,
,,	,, (,,)	1·88	,,	8·5	,,
,,	Woolwich (N. Woolwich Pumping Station)	1·75	,,	8·0	,,
,,	Bermondsey (Southwark Park)	2·02	,,	10·1	,,
,,	Lambeth (West Norwood, Thornlaw Rd.)	2·04	,,	8·5	,,
,,	,, (Brockwell Park)	2·60	,,	9·3	,,
,,	Battersea (Battersea Park)	2·24	,,	9·3	,,
,,	,, (Nine Elms, Heathwall)	1·68	,,	8·9	,,
,,	Wandsworth (Streatham, Southwark W.W.)	1·81	,,	8·2	,,
,,	,, (Clapham Park)	2·21	,,	8·5	,,
,,	,, (Putney Heath)	2·10	,,	8·7	,,
,,	,, (Wimbledon Pk., Woodhouse)	2·12	,,	7·9	,,
,,	,, Common (Patten Road)	2·05	,,	8·5	,,
,,	,, (Clapham Common, The Chase)	1·90	,,	10·0	,,
,,	Camberwell (Nunhead, Southwark W. W.)	1·85	,,	8·8	,,
,,	Deptford (Kent Water Works)	1·83	,,	7·6	,,
,,	Greenwich (Deptford Pumping Station)	2·14	,,	7·9	,,
II.	Windlesham (Westwood)	2·13	,,	8·6	,,
,,	Weybridge	2·05	,,	8·5	,,
,,	Banstead (Benhilton)	1·77	,,	8·4	,,
,,	Epsom (Water Works)	2·03	,,	8·4	,,
,,	Wallington (Cotswold)	2·05	,,	8·2	,,
,,	Sutton (Sewage Works)	1·98	,,	8·6	,,
,,	Carshalton (Sewage Works)	1·77	,,	8·1	,,
,,	Croydon (Brimstone Sewage Works)	1·90	,,	7·9	,,
,,	Worcester Park (Parkside)	2·10	,,	10·0	,,
,,	,, (Manor Lodge)	2·19	,,	10·0	,,
,,	Beddington Corner (Millgreen Road)	1·84	,,	8·0	,,
,,	Thames Ditton (Weston Green)	2·00	,,	8·0	,,
,,	Surbiton (Seething Wells)	2·00	,,	8·7	,,
,,	,, (Vronvelin)	2·13	,,	8·9	,,
,,	New Malden Sewage Works	2·00	,,	9·5	,,
,,	,, (Edenfield)	2·05	,,	8·9	,,
,,	Kingston (Sewage Works)	2·22	,,	8·2	,,

II.	Kingston (Union Street)	1·89 in. or	8·2 per cent.
,,	Wimbledon (Raynes Park)	1·90 ,,	8·3 ,,
,,	,, Park	2·23 ,,	8·9 ,,
,,	,, Sewage Works	2·03 ,,	9·2 ,,
,,	,, (The Downs)	2·06 ,,	8·2 ,,
,,	Richmond (The Terrace)	2·10 ,,	9·5 ,,
,,	,, (The Old Palace)	2·27 ,,	9·9 ,,
,,	,, (Kew Observatory)	2·36 ,,	9·8 ,,
,,	Wellington College	2·04 ,,	7·6 ,,
,,	Windsor (Royal Gardens)	2·09 ,,	8·1 ,,
,,	Reading	1·90 ,,	8·3 ,,
,,	Bisham Vicarage	2·43 ,,	9·0 ,,
,,	Cookham Vicarage	2·37 ,,	8·8 ,,
,,	Temple House [Marlow]	2·31 ,,	8·9 ,,
,,	Didcot (Upton)	1·91 ,,	8·0 ,,
,,	Wantage	1·83 ,,	7·5 ,,
,,	Wallingford (Woodlea)	1·80 ,,	7·6 ,,
,,	Long Wittenham (Manor House)	1·97 ,,	8·2 ,,
,,	,, (Lovegrove Cottage)	1·89 ,,	7·8 ,,
,,	Abingdon (The Square House)	1·81 ,,	7·9 ,,
,,	,, (Caldecott House)	1·72 ,,	7·8 ,,
,,	,, (Sewage Works)	1·70 ,,	7·5 ,,
,,	,, Union	1·95 ,,	8·5 ,,
III.	Laleham	1·90 ,,	8·3 ,,
,,	Hampton	1·97 ,,	7·9 ,,
,,	Teddington (Hampton Road)	1·88 ,,	8·2 ,,
,,	Staines (Cambria House)	1·97 ,,	7·7 ,,
,,	Twickenham (Sewage Works)	2·16 ,,	9·8 ,,
,,	Kew Bridge	2·17 ,,	9·4 ,,
,,	Acton (Newburgh Road)	2·02 ,,	8·8 ,,
,,	Ealing (Public Buildings)	1·87 ,,	7·8 ,,
,,	,, (Gordon Road)	2·02 ,,	8·8 ,,
,,	,, (Castle Bar Hill)	1·97 ,,	7·6 ,,
,,	,, (St. Stephen's Road)	1·83 ,,	8·0 ,,
,,	,, (Grange Park)	2·09 ,,	8·7 ,,
,,	Highgate (North Hill)	2·25 ,,	9·0 ,,
,,	,, (,, ,,)	2·25 ,,	8·5 ,,
,,	Harrow	2·29 ,,	8·8 ,,
,,	Hendon (Central School)	2·10 ,,	8·4 ,,
,,	Hornsey (High Street)	2·59 ,,	9·6 ,,
,,	,, (,, ,,)	2·60 ,,	10·0 ,,
,,	Muswell Hill (Grand Avenue)	2·27 ,,	8·4 ,,
,,	,, (Colney Hatch Lane)	2·90 ,,	10·4 ,,
,,	Wealdstone House	2·16 ,,	9·4 ,,
,,	Finchley (Etchingham Park)	2·11 ,,	7·6 ,,
,,	Harrow Weald (Hill House)	2·06 ,,	7·9 ,,
,,	North Finchley	2·15 ,,	7·7 ,,
,,	Southgate (Reservoir Road)	2·35 ,,	9·0 ,,
,,	Ponders End (Bylock Hall)	2·07 ,,	8·3 ,,
,,	,, ,,	2·14 ,,	8·9 ,,
,,	Enfield (Southbury Road)	1·80 ,,	7·8 ,,
,,	,, (Carisbrooke)	2·39 ,,	9·2 ,,
,,	,, (The Ridgeway)	2·34 ,,	9·0 ,,
,,	Rammey Marsh [Waltham Abbey]	1·98 ,,	8·3 ,,
,,	Potters Bar (Little Heath)	2·04 ,,	7·9 ,,
,,	Elstree (Aldenham House)	2·04 ,,	7·9 ,,
,,	Barnet (Summerhill)	2·61 ,,	10·0 ,,

III.	Barnet	2·42 in. or	8·6 per cent.
,,	Chipperfield (Little Callipers)	2·00 ,,	7·8 ,,
,,	Northaw (St. Just)	2·51 ,,	10·0 ,,
,,	Broxbourne (Stafford House)	2·30 ,,	7·9 ,,
,,	St. Albans (Hill End)	2·33 ,,	9·0 ,,
,,	Berkhampstead (Rose Cottage)	2·70 ,,	9·1 ,,
,,	,, (Rosebank)	2·64 ,,	8·8 ,,
,,	,, (Fairhill)	2·08 ,,	7·6 ,,
,,	Haileybury College	2·30 ,,	9·2 ,,
,,	Hatfield (Holwell House)	2·23 ,,	9·3 ,,
,,	Hertford (Bayfordbury)	2·42 ,,	9·7 ,,
,,	Stanstead Abbots	2·09 ,,	8·7 ,,
,,	Hertford (Sewage Works)	1·85 ,,	8·4 ,,
,,	Tring (Wigginton)	2·46 ,,	8·3 ,,
,,	,, (Elm House)	2·26 ,,	8·4 ,,
,,	,, (Grove Lodge)	2·33 ,,	8·3 ,,
,,	,, (Cowroast)	2·37 ,,	8·0 ,,
,,	Harpenden (Rothamstead)	2·21 ,,	7·9 ,,
,,	Ware (Fanham's Hall)	1·98 ,,	8·3 ,,
,,	Welwyn (Danesbury)	2·04 ,,	7·5 ,,
,,	,, (Datchworth Rectory)	2·14 ,,	8·3 ,,
,,	Much Hadham	1·90 ,,	7·6 ,,
,,	Bennington House	2·21 ,,	8·8 ,,
,,	,, (Eileen Cottage)	2·06 ,,	7·6 ,,
,,	Hitchin (Preston)	2·64 ,,	9·8 ,,
,,	,, (Wratten)	2·69 ,,	10·6 ,,
,,	,, (The Maples)	2·65 ,,	10·5 ,,
,,	,, (The Chilterns)	2·69 ,,	10·2 ,,
,,	,, (High Down)	2 46 ,,	10·2 ,,
,,	Weston Park	2·44 ,,	9·0 ,,
,,	Buntingford (Throcking Rectory)	2·25 ,,	8·6 ,,
,,	Baldock (High Street)	2·43 ,,	9·3 ,,
,,	Royston (Therfield Rectory)	2·04 ,,	7·6 ,,
,,	,, (Union Workhouse)	2·08 ,,	8·3 ,,
,,	,, (Earlshill House)	2·15 ,,	8·6 ,,
,,	,, (Melbourne Street)	2·06 ,,	8·6 ,,
,,	Eton (Tangier Island)	1·96 ,,	8·5 ,,
,,	Slough (Upton)	1·97 ,,	7·6 ,,
,,	Burnham (Burnham Cottage)	2·00 ,,	7·7 ,,
,,	Taplow Court	1·92 ,,	8·0 ,,
,,	Hedsor	2·66 ,,	8·6 ,,
,,	Marlow Mills	2·55 ,,	9·1 ,,
,,	Great Missenden	2·50 ,,	7·6 ,,
,,	Wendover (Halton Gardens)	2·63 ,,	9·7 ,,
,,	Bulbourne (Tring)	2·21 ,,	8·2 ,,
,,	Winslow (Addington Manor)	2·02 ,,	7·8 ,,
,,	Buckingham (Adstock Fields)	2·16 ,,	8·3 ,,
,,	,, (The Vicarage)	2·04 ,,	7·5 ,,
,,	Wolverton (Schoolhouse)	2·00 ,,	7·7 ,,
,,	Newport Pagnell	1·97 ,,	7·6 ,,
,,	Abingdon (Schoolhouse)	1·83 ,,	8·0 ,,
,,	Nuneham Park Gardens)	1·80 ,,	7·8 ,,
,,	Oxford (Headington Hill)	1·94 ,,	7·5 ,,
,,	Stanton St. John (Woodperry)	2·03 ,,	8·1 ,,
,,	Woodstock (Hampton Poyle)	1·96 ,,	7·8 ,,
,,	Bicester	1·76 ,,	7·7 ,,
,,	Blisworth (Crieff House)	1·92 ,,	7·7 ,,

III.	Huntingdon (Hinchingbrook Gardens) ...	1·87 in. or	7·9 per cent.
,,	Dunstable (Kensworth)	2·30 ,,	7·5 ,,
,,	Shillington	2·30 ,,	9·2 ,,
,,	Holwell Bury [Hitchin]	2·18 ,,	9·5 ,,
,,	Ampthill (Higham Bury)	2·10 ,,	8·1 ,,
,,	,, (Silsoe)	2·25 ,,	8·3 ,,
,,	Shefford (Upper Stondon)	2·28 ,,	9·5 ,,
,,	Stotfold [Baldock]	2·27 ,,	10·3 ,,
,,	Potton (Wrestlingworth)	1·93 ,,	7·7 ,,
,,	Odsey [Ashwell]	2·08 ,,	8·7 ,,
,,	Foxton House	1·91 ,,	8·0 ,,
,,	Abington Pigotts	2·23 ,,	9·7 ,,
,,	Meldreth (Chiswick Farm)	1·85 ,,	8·0 ,,
,,	,, (Belmington Close)	2·09 ,,	9·1 ,,
,,	Whittlesford (Sawston Hall)	1·79 ,,	7·5 ,,
,,	Harston Vicarage	2·18 ,,	9·8 ,,
,,	Wimpole Hall	2·33 ,,	9·7 ,,
,,	Stapleford House	1·63 ,,	7·5 ,,
,,	Trumpington	1·96 ,,	8·2 ,,
,,	Grandchester Mill	2·08 ,,	9·1 ,,
,,	Cambridge (W.W., Cherryhinton)	1·84 ,,	8·4 ,,
,,	,, (Southacre)	1·86 ,,	8·1 ,,
,,	,, (Sidney Street)	2·31 ,,	10·4 ,,
,,	,, (Tenison Avenue)	2·17 ,,	9·9 ,,
,,	,, (Pinehurst)	2·09 ,,	9·1 ,,
,,	,, (Botanic Gardens)	1·93 ,,	8·8 ,,
,,	,, (Herschel House)	2·50 ,,	11·9 ,,
,,	Stretham (Dimocks Cote)	1·99 ,,	8·3 ,,
,,	,, Engine	2·24 ,,	10·0 ,,
,,	,, (Orchard House)	2·18 ,,	9·1 ,,
,,	Upwell (Euximoor House)	1·85 ,,	7·7 ,,
,,	Wisbech (Bank House)	1·84 ,,	7·7 ,,
IV.	West Ham (Abbey Mills)	1·82 ,,	7·9 ,,
,,	Leyton (Town Hall)	1·84 ,,	8·4 ,,
,,	Lea Bridge	1·75 ,,	8·0 ,,
,,	Chingford Mill	2·11 ,,	9·2 ,,
,,	Waltham Abbey	2·00 ,,	8·0 ,,
,,	,, ,, (Gunpowder Factory)	2·13 ,,	7·9 ,,
,,	Emneth	2·07 ,,	9·0 ,,

July 17th and 18th.

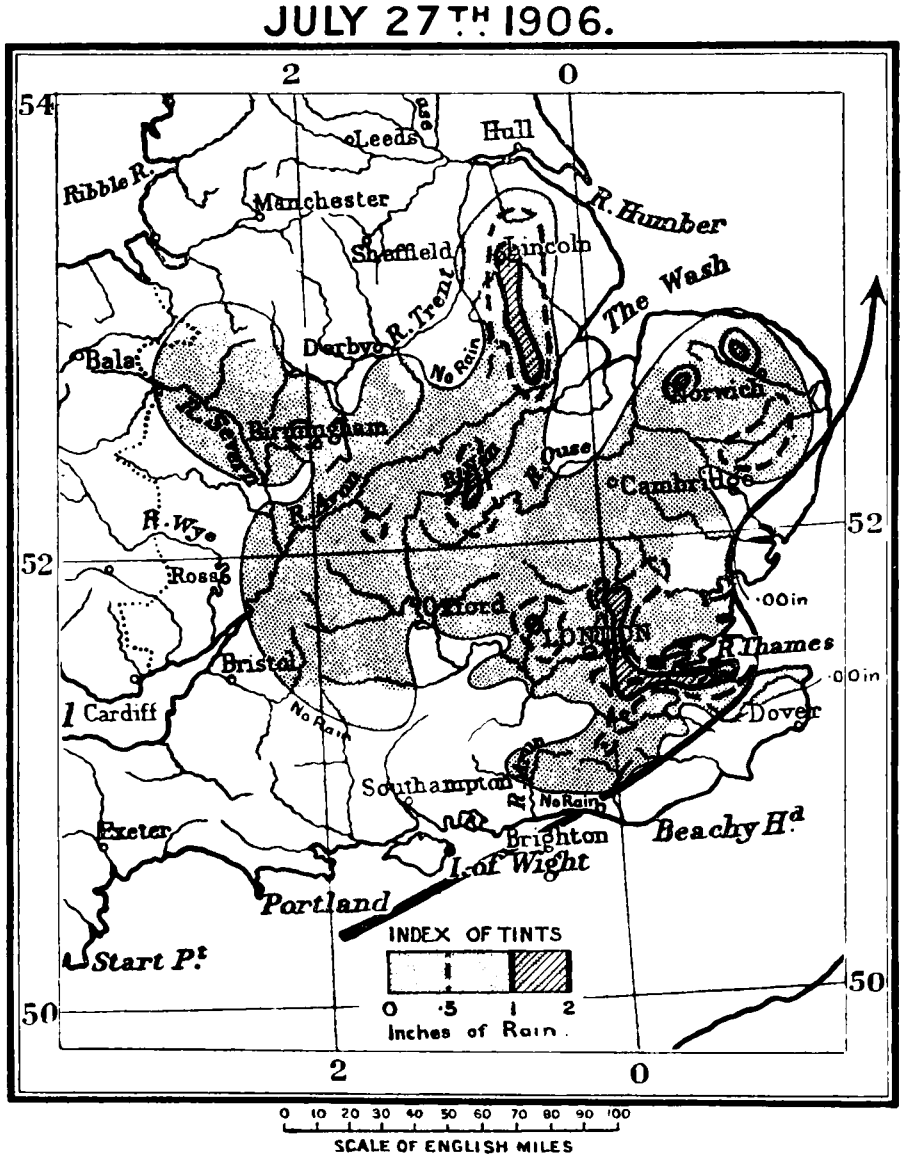
About a dozen M occurred in the west of Scotland on one or other of these days, both of which were very wet. The M at Fort William occurred on the 17th, the other two on the 18th. The remarkable figure at Glenquoich is not directly comparable with the others as the gauge is not read at the usual hour, but at 6 p.m.

XV.	Loch Eil (Corran)	2·55 in. or	3·1 per cent.
XVIII.	Fort William	3·29 ,,	3·9 ,,
,,	Glenquoich	4·32 ,,	3·4 ,,

July 27th.

One of the most usual days for summer thunderstorms. M occurred at about 25 stations in the south-east of England, but the amounts

recorded were in no way remarkable. The distribution of rain, however, was interesting on account of its close resemblance to the thunderstorm rain of July 27th, 1904 (see *British Rainfall*, 1904, p. [126]. On the present occasion the area with rain exceeding



one inch was 707 square miles, and the volume falling upon that area was 979 square-mile inches. It is interesting to observe the radiate form of the rain tracks, and to note how close together the wet and dry areas lay. On both occasions the wet area lay to the left of the track of the accompanying depression.

II.	Farningham	2·38 in. or	8·5 per cent.
,,	Sheppey (Eastchurch)	2·05 ,,	8·9 ,,
III.	Cambridge (Fulbourne Pumping Station)	1·97 ,,	7·6 ,,

August 1st.

Thunderstorms brought M to about 20 stations in different parts of the country, but only two remarkable falls of rain were reported.

XI.	Blaenau Festiniog (Oakley Quarries)	3·17 in. or	2·9 per cent.
,,	Durbach Langton	2·58 ,,	5·2 ,,

August 2nd.

Thunderstorms broke out sporadically in all parts of England and Wales, and M were recorded at more than 50 stations. The Guildford storm, remarkable for the destructive violence of the squall accompanying it, yielded no large fall of rain. In North Wales the storms seem to have been most intense, and although the only recorded fall large enough to be quoted here was that of 3·33 in. at Portmadoc, the torrential rain above Beddgelert produced in a few hours a flood which swept away the bridge over the Colwyn, and it was estimated, probably quite correctly, that at Moel Hebog about 5 inches of rain fell in three hours. As there was no measurement made, however, this figure cannot be placed on record.

XI.	Portmadoc (Wern Gardens)	3·33 in. or	4·5 per cent.

August 8th.

Thunderstorms broke out at many places all over the country, but mainly in the east and north-east of England and the east of Scotland. About 20 M were recorded, including—

IV.	Wells (Holkham Hall)	2·57 in. or	9·9 per cent.
,,	Burnham Overy Staithe	2·54 ,,	9·0 ,,
VII.	Louth (Westgate)	2·41 ,,	8·6 ,,
XVII.	Cromar (Tillieproniе)	2·53 ,,	6·0 ,,

October 1st and 2nd.

Two wet days in the centre and west of England and in Wales; but, as the rain fell partly on each day, no striking M appear amongst the 220 which were reported, and consequently there is none to be quoted here.

October 11th.

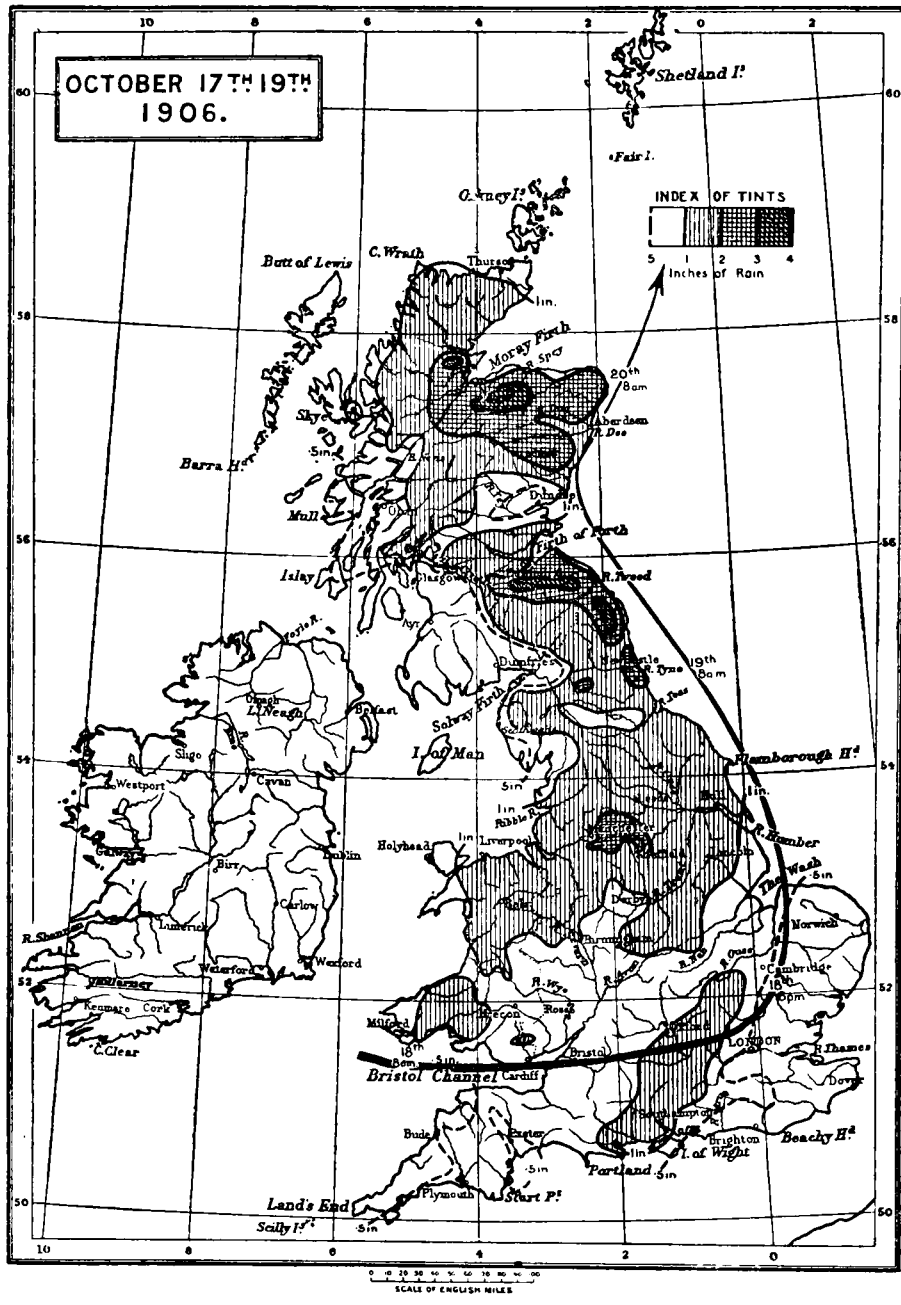
M occurred at more than 50 stations, mainly in the south of Scotland and in Ireland.

XXI.	Tullamore	2·41 in. or	8·0 per cent.

October 17th to 19th.

A cyclonic centre pursued a somewhat unusual course, eastward, across the south of England, and then northward along the east

coast of Britain, the centre being in the Bristol Channel at 8 a.m. on the 17th, and off the Moray Firth at 8 a.m. on the 20th. Heavy rain was experienced in all parts of the British Isles during the



passage of the system, and especially in Northumberland on the 18th, and in the north-east of Scotland on the 19th. By adding together the rainfall of the three days—only one of the three being a very wet day—the map expressing the distribution takes account of

practically all the precipitation accompanying the depression. It will be observed that the track of the centre crosses a large area of more than 1 inch rainfall in the south-east of England. From the frequency with which a cyclone has the whole of the area with more than an inch of rain on its left, one might consider the possibility of the track in this case having taken a southward curve round the Isle of Wight. There is nothing to contradict this in the Meteorological Office chart, which simply joins the 8 a.m. and 6 p.m. positions of the centre by a straight line; but we have not had time to go into the matter fully.

The total area with more than 1 inch of rain was very large, and except for isolated patches in South Wales and the south-east of England, and a narrow strip in the lowland plain of Scotland, was continuous from the Midlands to the north of Caithness, but it did not extend to the west coast in Scotland nor to Ireland. A curious feature is the occurrence of drier patches entirely surrounded by places with higher rainfall; one of these is in the north of England between Darlington and Appleby, another in Scotland from Forfar to Perth. There are so many observations in these areas that there can be no doubt of the fact. Falls exceeding 2 inches occur in three separate areas along the east coast, the largest being in Northumberland and the south-east of Scotland, and in the north-east of Scotland. In each of these there were patches with more than 3 inches of rain, and in the northern one station reported more than 4 inches. On account of the small number of rainfall stations which exist in the north of Scotland, and the small proportion of those there are from which we receive full daily figures, an isolated untrustworthy station might possibly escape detection, and its effect would be to alter the outline to an undue degree. In the south the same risk does not arise, the stations being so near each other as to afford a mutual check. Although on a larger scale and with the greater intensity characteristic of an autumnal cyclonic rain, the distribution of rainfall shown on this map plainly belongs to the same type as that of May 19th, shown on p. [102].

The measurements are as follows:—

	Area, sq. miles.	General R, inches.	Volume of R, sq. mi. × in.
Over 4 inches	64	4·15	264
3–4 ,, ...	890	3·33	2,964
2—3 ,, ...	6,960	2·40	16,708
1—2 ,, ...	37,746	1·32	50,048
Total over 1 inch ...	45,660		69,984

From this it is computed that the general rainfall of the whole area which received 1 inch of rain or more during October 17th—19th was 1·53 in.

The M on the respective days are given below.

October 18th.

M were reported from about 200 stations on the 17th or 18th, but as the rain was divided between two days the amounts on either day were small, and only three had a sufficiently high percentage to appear, all being on the 18th. The heavy rain extended over Yorkshire and the adjacent counties to the north and south.

VII.	South Scarle Vicarage	1·63 in. or	8·6 per cent.
X.	Sunderland (Claxheugh Grove)	2·33 ,,	9·0 ,,
,,	Rothbury (Cragside)	2·70 ,,	7·5 ,,
,,	Fence Houses (Chilton Moor)	2·21 ,,	9·2 ,,

October 19th.

Extraordinarily heavy rainfall was experienced in the north-east of Scotland, especially in the upper valleys of the Spey and Findhorn. Though the number of M reported did not much exceed 60, these represent a large area. The fall of 4·00 in. at Glenferness was one of the great rains of the year, remarkable for its high percentage of the annual total as well as for its great amount. The precipitation took the form of snow on the higher hills, but even so the rivers were rapidly raised to high flood.

XVII.	Cromar (Logie Coldstone School)	2·54 in. or	6·4 per cent.
,,	Dufftown (Fife Street)	2·80 ,,	6·0 ,,
,,	Craigellachie (Cragganspey)	3·00 ,,	7·3 ,,
,,	Ardclach (Glenferness)	4·00 ,,	9·2 ,,
XVIII.	Loch Ness (Drumnadrochit)	2·56 ,,	6·6 ,,
,,	Evanton (Novar Gardens)	2·50 ,,	5·2 ,,
,,	Alness (Ardross Castle)	2·87 ,,	5·9 ,,

October 27th.

The last five days of October altogether yielded more than 250 M, chiefly in the north of England; but it was only on the 27th that the figures presented any special interest, and then at no more than two stations.

X.	Borrowdale (Grange)	3·20 in. or	4·0 per cent.
,,	Ambleside (Skelwith Bridge)	3·01 ,,	3·1 ,,

November 8th.

M were recorded at about 100 stations scattered over the greater part of England, but only four amounts were large enough to attract special attention. These were :—

III.	Catworth	2·11 in. or	8·4 per cent.
,,	Woburn (Crawley Farm)	1·92 ,,	7·6 ,,
V.	Challacombe	2·67 ,,	3·7 ,,
,,	Simonsbath	3·01 ,,	4·3 ,,

November 19th.

A heavy local rain in the north-east of Scotland yielded about a dozen M, two of which are just large enough to notice.

XVII.	Balmoral (Castle Gardens)	2·50 in. or	6·5 per cent.
,,	Keith Station	2·50 ,,	6·4 ,,

December 2nd.

December was unusually free from heavy rain, not more than 60 stations recording their M in the whole month, and only two of these, occurring on the 2nd, require to be mentioned.

XVIII.	Glencarron	3·65 in. or	3·6 per cent.
,,	Inverie	3·05 ,,	3·2 ,,

Part II.—Abstract.

In the Chronicle we have dealt with the individual maximum falls in considerable detail; it now remains to discuss them generally in accordance with previous usage, so that the year under review may be compared with the years that are past.

Table I. gives the sixteen highest M of the year. As a rule the wettest day in the Lake District claims a large share in this Table in years which yield no great thunderstorms, and on this occasion we find six of the sixteen highest M on January 28, when Seathwaite led with the large day's total of 6·15 in. Summer rains are not prominent in the list for 1906, the four which appear dating from July 17 and 18, August 1 and 2, and all of them occurring in the Highlands, Wales, or the Lake District. The mean annual rainfall at the stations yielding these highest falls is greater than the average, which means that heavy falls in localities of low rainfall were rare.

Table II. shows that the mean of the sixteen highest M was very close to the average, but that the percentage of the total annual fall was the lowest in the 42 years over which the Table now extends. This points to the fact that the highest falls almost all occurred as winter rains in wet places, and not as summer thunderstorm rains in dry districts; the contrast with 1905, when the proportion was the highest in the series, is strongly marked. The absolutely highest M of the year was a little greater than the average highest M; but has been exceeded on eight occasions.

Table III. (which shares a page with Table I. from motives of space economy) presents the sixteen M which form the largest percentages of the annual fall, and it contains nothing of interest calling for remark.

Table IV. shows that the mean of the sixteen highest percentages was almost exactly the average of the preceding 41 years, and that the M with the highest percentage of the year (11·9) was considerably below the average, though lower values have occurred on 17 occasions.

Table V. is a more interesting comparison of the present with the past. The first column shows the growth of the number of complete daily records available for the study of M. It will be noticed that the number has doubled since 1884, is four times greater than it was in 1873, and seven times greater than in 1865. This illustrates the growth of our work in a very striking manner. The mean of all the M for 1906 is 1·40 in., so near the average that the difference from the average can only be represented by zero. The mean amount of rain at the 3365 stations was in round figures 31 inches, or 94 per cent. of the average. Owing to the irregularity with which the rain recording stations are distributed, the greater number being in the drier regions, this arithmetical mean does not give the true general rainfall of the British Isles, an estimate of which is given in a later section. The figures are, however, fairly comparable from year to year. Following the precedent of last year the three kingdoms have been generalized separately, with the result that the mean M for Scotland is shown to be considerably higher in amount than that for England and Wales, which in turn is higher than that for Ireland; though on account of the relative wetness of Scotland in 1906 the percentage of the M to the total rainfall was comparatively low. The large number of falls exceeding 2 inches in Scotland, and the small number of falls exceeding 2 inches in Ireland were equally noteworthy.

Summary of Maximum Falls in 1906.

	No. of Records.	Mean Percentage.	Mean Amount. in.	Falls of 2·00 in. or more.	Falls of 3·00 in. or more.
England and Wales	2846	4·6	1·31	310	24
Scotland.....	325	3·9	1·68	78	6
Ireland	194	3·3	1·14	7	0
British Isles ...	3365	4·5	1·40	395	30

Table VI. compares the heaviest M of 1906 with those of some previous years. As the total number of records is growing rapidly the actual number of heavy falls exceeding 2 or 3 inches means little; but the percentage columns shows that the proportion of M over 2 inches was slightly, and that of falls over 3 inches very decidedly, less than the average. This confirms the general impression created by reading the Observers' Notes for 1906, that there were comparatively few severe thunderstorms or very heavy cyclonic rains in the year.

TABLE I.—*Maximum Falls in* 1906.

Date.	Div.	Station.	Depth.	Per Cent.	Total.
Jan. 28 ...	X.	Borrowdale, Seathwaite ...	6·15 in.	4·7	130·66 in.
July 18 ...	XVIII.	Glenquoich	4·32 ,,	3·4	128·87 ,,
Oct. 19 ...	XVII.	Ardclach, Glenferness	4·00 ,,	9·2	43·28 ,,
Mar. 16 ..	XV.	Arrochar House	3·80 ,,	4·3	88·25 ,,
Jan. 28 ...	X.	Buttermere, Hassness	3·72 ,,	3·6	103·31 ,,
Mar. 16 ...	XV.	Ballachulish, Glencoe	3·70 ,,	4·3	85·85 ,,
Dec. 2 ...	XVIII.	Glencarron	3·65 ,,	3·6	101·53 ,,
Aug. 2 ...	XI.	Portmadoc, Wern Gardens.	3·33 ,,	4·5	74·59 ,,
July 17 ...	XVIII.	Fort William	3·29 ,,	3·9	83·88 ,,
Oct. 27 ...	X.	Borrowdale, Grange	3·20 ,,	4·0	80·86 ,,
Aug. 1 ...	XI.	Blaenau Festiniog, Oakley Quarries	3·17 ,,	2·9	108·59 ,,
Feb. 12 ..	XIX.	Bettyhill	3·16 ,,	7·8	40·71 ,,
Jan. 28 ...	X.	Elterwater Hall	3·16 ,,	3·3	94·99 ,,
,, ,, ...	,,	Borrowdale, The Moraine...	3·15 ,,	3·4	92·60 ,,
,, ,, ...	,,	Grasmere, High Close	3·12 ,,	3·5	88·92 ,,
,, ,, ...	,,	,, The Wray.....	3·09 ,,	3·3	94·45 ,,

TABLE III.—*Maximum Percentages in* 1906.

Date.	Div.	Station.	Per cent.	Fall.	Total.
June 28 ...	III.	Cambridge, Herschel House	11·9	2·50 in.	20·95 in.
,, ,, ...	I.	Finsbury, New River Head.	11·7	2·44 ,,	20·88 ,,
,, ,, ...	,,	Hackney, Clapton Pond ...	10·7	2·50 ,,	23·36 ,,
,, ,, ...	III.	Hitchin, Wratten	10·6	2·69 ,,	25·44 ,,
,, ,, ...	,,	,, The Maples	10·5	2·65 ,,	25·18 ,,
,, ,, ...	,,	Cambridge, Sidney Street...	10·4	2·31 ,,	22·12 ,,
,, ,, ...	,,	Muswell Hill Colney Hatch Lane	10·4	2·90 ,,	27·79 ,,
May 19 ...	X.	Seaham, Dalton	10·3	2·50 ,,	24·39 ,,
June 28 ...	III.	Stotfold [Baldock]	10·3	2·27 ,,	21·97 ,,
,, ,, ...	,,	Hitchin, The Chilterns	10·2	2·69 ,,	26·46 ,,
,, ,, ...	,,	,, High Down.....	10·2	2·46 ,,	24·01 ,,
,, ,, ...	I.	Stoke Newington, N. Riv. Filter Beds	10·2	2·33 ,,	22·92 ,,
,, ,, ...	III.	Barnet, Summerhill	10·0	2·61 ,,	25·97 ,,
May 19 ...	X.	Sunderland, Cleadon	10·0	2·52 ,,	25·12 ,,
June 28 ..	III.	Northaw, St. Just	10·0	2·51 ,,	24·89 ,,
,, ,, ...	IV.	Stretham Engine.....	10·0	2·24 ,,	22·33 ,,

TABLE II.—*Comparison of Maximum Falls with those in previous years.*

	Mean of 16 Highest.			Absolute Highest.			
Years.	Depth.	Per Cent.	Mean total fall at these stations.	Depth.	Per Cent.	Station.	Division.
	in.		in.	in.			
1865 ...	3·67	6·4	61·8	6·41	5·5	Seathwaite.....	X.
1866 ...	3·40	4·4	86·2	6·38	3·6	,, ...	,,
1867 ...	3·17	9·0	*m* 42·5	4·78	17·7	Hartlip	II.
1868 ...	3·32	6·1	65·9	5·60	4·8	Camusinas.....	XV.
1869 ...	3·68	5·0	77·7	6·70	4·5	Seathwaite.....	X.
1870 ...	3·20	7·5	43·8	6·00	17·1	Tongue	XIX.
1871 ...	3·08	5·7	61·6	4·24	9·6	Melbury.....	V.
1872 ...	4·10	6·6	73·1	5·82	3·2	Seathwaite.....	X.
1873 ...	2·97	6·2	60·7	4·20	*m* 2·9	,, ...	,,
1874 ...	3·96	4·6	86·5	5·32	4·4	Bryn Gwynant.....	XI.
1875 ...	4·52	7·8	63·9	5·33	9·7	Newport W.W. ...	,,
1876 ...	3·37	5·9	57·6	4·50	5·5	Foffany	XXIII.
1877 ...	3·77	4·6	93·4	4·98	5·3	Skye, Portree.....	XVIII.
1878 ...	3·57	7·4	57·2	4·24	8·6	Springfield	XI.
1879 ...	3·66	9·5	50·4	*m* 4·05	4·1	Little Langdale.....	X.
1880 ...	3·50	7·7	51·1	4·75	3·9	Seathwaite.....	,,
1881 ...	3·65	4·9	83·1	5·42	4·7	Sligachan	XVIII.
1882 ...	3·28	4·5	84·3	4·51	3·0	Seathwaite	X.
1883 ...	3·69	6·1	72·4	5·27	9·0	Glen-na-Smoel	XXI.
1884 ...	3·45	4·7	80·7	6·78	5·0	Seathwaite	X.
1885 ...	3·45	5·8	68·2	4·62	3·2	,, ...	,,
1886 ...	3·77	7·7	58·7	4·20	9·9	Little Bredy	V.
1887 ...	*m* 2·83	6·1	56·8	4·93	13·0	Galway Queen's Coll.	XXII.
1888 ...	4·20	5·9	77·0	5·20	5·4	Wythburn Vic.....	X.
1889 ...	3·89	9·9	49·2	4·45	16·5	N. Ockendon.....	IV.
1890 ..	5·01	6·9	95·1	7·29	3·7	Ben Nevis Obs.....	XVIII.
1891 ...	4·38	4·7	M 108·4	6·14	4·2	Seathwaite.....	X.
1892 ...	4·47	7·9	70·1	5·80	4·5	,, ...	,,
1893 ...	3·84	5·8	89·6	4·96	3·5	,, ...	,,
1894 ...	3·95	5·7	83·0	7·74	5·1	Ben Nevis Obs.....	XVIII.
1895 ...	3·80	7·2	62·2	4·83	16·1	Mellington Hall ...	XI.
1896 ...	3·31	5·9	67·5	4·59	3·7	Seathwaite	X.
1897 ...	M 5·24	5·3	95·1	M 8·03	5·6	,, ...	,,
1898 ...	4·61	5·3	100·8	6·70	M 18·1	Angerton Hall.....	,,
1899 ...	3·92	5·0	86·6	5·21	5·6	Borrowdale, Grange	,,
1900 ...	4·29	8·0	64·1	5·40	11·9	Ilkley, Cherry Bank	IX.
1901 ...	4·21	9·9	53·5	5·66	5·7	Dungeon Ghyll ...	X.
1902 ...	3·79	7·9	59·4	5·92	3·8	Ben Nevis Obs. ..	XVIII.
1903 ...	4·13	7·2	84·7	4·78	2·2	,, ,, ,, ...	,,
1904 ...	4·02	7·4	69·5	5·62	6·0	Skelwith Bridge ...	X.
1905 ...	3·90	M 11·5	42·6	5·71	14·0	Glen-na-Smoel.....	XXI.
Mean ...	3·81	6·4	69·7	5·44	7·2	.....	...
1906 ...	3·63	*m* 4·3	90·0	6·15	4·7	Seathwaite	X.
Diff. ...	— ·18	—2·1	+20·3	+·71	—2·5	.....	...

TABLE IV.—*Comparison of Max. Percentages with those in previous years.*

	Mean of 16 Highest.			Absolute Highest.			
Years.	Per Cent.	Depth.	Mean total fall at these Stations.	Per Cent.	Depth.	Station.	Division.
		in.	in.		in.		
1865 ...	9·9	2·62	28·4	13·0	4·40	Fleckney	VII.
1866 ...	8·1	2·31	29·3	10·0	2·48	Burton	VI.
1867 ...	11·0	2·85	25·3	17·7	4·78	Hartlip	II.
1868 ...	8·6	2·55	30·1	11·0	4·00	Tongue	XIX.
1869 ...	7·9	2·17	27·9	10·0	3·40	Tillydesk	XVII.
1870 ...	10·0	2·34	22·9	17·1	6·00	Tongue	XIX.
1871 ...	9·0	2·43	26·8	11·5	3·62	Warter	IX.
1872 ...	8·1	3·43	M 42·5	10·0	3·70	Hillington Hall	IV.
1873 ...	9·7	2·39	24·7	11·8	2·77	Oscott	VI.
1874 ...	9·2	2·16	23·7	11·9	2·50	Welwyn	III.
1875 ...	10·2	M 3·76	37·5	13·2	3·95	Letheringsett	IV.
1876 ...	*m* 7·4	2·49	33·7	*m* 8·5	3·70	Cragside	X.
1877 ...	8·2	2·73	33·1	9·3	3·09	Wellington	VI.
1878 ...	10·2	3·05	30·0	11·8	3·90	Haverstock Hill	I.
1879 ...	10·9	3·31	30·5	12·3	3·80	Cambridge M. V.	III.
1880 ...	9·5	3·06	32·3	11·7	3·34	Marmont Priory L.	,,
1881 ...	8·1	2·42	30·3	10·6	3·20	Aboyne Castle	XVII.
1882 ...	7·7	2·54	33·4	9·1	2·80	Bothalhaugh	X.
1883 ...	9·7	3·00	31·1	12·3	4·31	Skegness	VII.
1884 ...	11·7	2·33	*m* 20·0	13·8	2·66	Diss (Thelveton)	IV.
1885 ...	8·9	2·71	30·7	9·6	2·62	Beccles, Ellough	,,
1886 ...	10·1	3·32	32·7	11·5	4·10	Methley Park	IX.
1887 ...	9·5	*m* 2·11	21·9	13·0	4·93	Galway, Queen's Coll.	XXII.
1888 ...	10·9	3·05	28·3	11·8	3·24	Rothamstead	III.
1889 ...	12·7	3·51	27·8	16·5	4·45	N. Ockendon	IV.
1890 ...	M 14·4	3·60	25·1	17·2	3·68	Slough, Langley	III.
1891 ...	9·7	2·67	27·6	14·4	4·00	Sunnyside Asylum	XVI.
1892 ...	12·3	3·37	27·4	15·0	4·27	Tyntesfield	V.
1893 ...	12·0	2·81	23·4	16·2	4·48	Cranmer Hall	IV.
1894 ...	9·0	2·54	28·3	11·1	3·56	Sidcup	II.
1895 ...	10·0	2·87	28·8	16·1	4·83	Mellington Hall	XI.
1896 ...	9·5	2·50	26·3	11·1	2·78	Barkby	VII.
1897 ...	10·8	2·48	23·2	14·1	*m* 2·40	Chatteris, H. L.	III.
1898 ...	11·5	2·92	25·0	M 18·1	M 6·70	Angerton Hall	X.
1899 ...	11·3	2·53	22·6	14·6	3·10	Wallingford	II.
1900 ...	11·3	3·37	29·8	13·1	4·50	Gilstead Filters	IX.
1901 ..	14·1	3·37	24·0	17·9	4·24	Maidenhead, The Firs	II.
1902 ...	12·7	2·90	22·8	15·5	3·51	Esher Sewage Works.	,,
1903 ..	10·6	M 3·76	35·6	12·8	4·41	Dartford, West Hill House	,,
1904 ...	12·5	2·87	23·0	15·8	3·48	Leamington, Binswood Av.	VI.
1905 ...	13·8	3·67	26·7	14·9	3·98	Cofton Vicarage	V.
Mean ..	10·3	2·85	28·2	13·1	3·80	.....	...
1906 ...	10·5	2·51	24·0	11·9	2·50	Cambridge, Herschel House	III.
Diff. ...	+ 0·2	— ·34	— 4·2	— 1·2	— 1·30	.....	...

TABLE V.—*Comparison of the Mean of all the Maximum Falls of 1906 with similar data for previous years.*

Years.	Number of Returns.	Mean Percentage.	Mean Amount.	Mean Total Fall in year.	Ratio taking 33=100.	Total Fall being assumed =33in. Mean Max. =
			in.	in.		
1865.....	481	5·1	1·70	33	100	5·2 per cent
1866.....	590	3·7	1·48	40	121	4·5 ,,
1867.....	584	4·6	1·44	31	94	4·4 ,,
1868.....	676	4·3	1·43	33	100	4·3 ,,
1869.....	637	4·2	1·42	34	103	4·3 ,,
1870.....	687	4·9	1·30	27	82	3·9 ,,
1871.....	752	4·9	1·49	30	91	4·5 ,,
1872.....	743	*m* 3·4	1·59	M 47	M 142	4·8 ,,
1873.....	809	4·6	1·35	29	88	4·1 ,,
1874.....	1010	4·4	1·41	32	97	4·3 ,,
1875.....	1081	5·0	M 1·83	37	112	M 5·5 ,,
1876.....	1112	3·9	1·49	38	115	4·5 ,,
1877.....	1180	3·8	1·56	41	124	4·7 ,,
1878.....	1186	4·3	1·49	35	106	4·5 ,,
1879.....	978	4·2	1·52	36	109	4·6 ,,
1880.....	1117	4·8	1·72	36	109	5·2 ,,
1881.....	1194	4·1	1·45	35	106	4·4 ,,
1882.....	1463	3·6	1·42	39	118	4·3 ,,
1883.....	1505	4·0	1·41	35	106	4·3 ,,
1884.....	1691	4·8	1·32	28	85	4·0 ,,
1885.....	1801	4·5	1·41	31	94	4·3 ,,
1886.....	1718	4·6	1·64	35	106	5·0 ,,
1887.....	1921	4·5	*m* 1·14	*m* 25	*m* 76	*m* 3·5 ,,
1888.....	1974	4·4	1·41	32	97	4·3 ,,
1889.....	1812	4·8	1·41	29	88	4·3 ,,
1890.....	2081	5·0	1·46	29	88	4·4 ,,
1891.....	2218	4·1	1·47	35	106	4·5 ,,
1892.....	2231	5·4	1·62	30	91	4·9 ,,
1893.....	2267	4·8	1·30	27	82	3·9 ,,
1894.....	2321	4·2	1·46	35	106	4·4 ,,
1895.....	2423	4·5	1·37	30	91	4·2 ,,
1896.....	2465	4·4	1·33	30	91	4·0 ,,
1897.....	2598	4·1	1·36	33	100	4·1 ,,
1898.....	2691	5·0	1·42	28	85	4·3 ,,
1899.....	2791	4·7	1·42	30	91	4·3 ,,
1900.....	2702	4·6	1·61	35	106	4·9 ,,
1901.....	2747	M 5·7	1·58	28	85	4·8 ,,
1902.....	2832	4·4	1·20	27	82	3·6 ,,
1903.....	2936	4·0	1·67	41	124	5·1 ,,
1904.....	3093	4·6	1·31	29	88	4·0 ,,
1905.....	3250	4·8	1·31	27	82	4·0 ,,
Mean ...	1716	4·5	1·46	33	100	4·4 ,,
1906.....	3365	4·5	1·40	31	94	4·2 ,,
Diff.....	+1649	0·0	— ·06	— 2	— 6	—0·2 ,,

TABLE VI.—*Max. Falls in each year exceeding* 2·00 *in., and exceeding* 3·00 *in.*

Year.	Total number of records.	Falls of 2·00 in. or more. Number.	Falls of 2·00 in. or more. Per cent. of total No.	Falls of 3·00 in. or more. Number.	Falls of 3·00 in. or more. Per cent. of total No.
1882	1463	140	9·6	8	0·6
3	1505	170	11·3	23	1·5
4	1691	138	8·2	9	0·5
5	1801	179	10·0	24	1·3
6	1718	158	9·2	44	2·6
7	1921	52	*m* 2·7	4	*m* 0·2
8	1974	374	18·9	34	1·7
9	1812	170	9·4	24	1·3
1890	2081	345	16·6	54	2·6
1	2218	270	12·2	39	1·8
2	2231	470	21·1	81	M 3·6
3	2267	183	8·1	29	1·3
4	2321	313	13·5	36	1·6
5	2423	249	10·3	31	1·3
6	2465	249	10·1	16	0·6
7	2598	275	10·6	62	2·4
8	2691	373	13·9	72	2·7
9	2791	283	10·0	43	1·5
1900	2702	641	M 23·7	89	3·3
1	2747	497	18·1	68	2·5
2	2832	163	5·8	30	1·1
3	2936	625	21·3	83	2·8
4	3093	246	8·0	29	0·9
5	3250	280	8·6	45	1·4
Mean	2314	285	12·1	41	1·7
1906	3365	395	11·7	30	0 9
Diff.	+1051	+110	—0·4	—11	—0·8

THE DISTRIBUTION OF RAINFALL IN TIME.

OF ways in which rainfall data may be discussed there is no end, and for the last four years we have been endeavouring to approach nearer to a full and comprehensive treatment by taking advantage of the higher accuracy of the general run of records now available as compared with those that lay to the hand of Mr. Symons when he began his long career of educating the British public in rainfall measurement.

Part of the study of the distribution of rainfall in time is still dealt with in Part I. of *British Rainfall*, for the use of recording rain gauges is neither so widespread nor so careful as we hope it will soon become, and it is felt to be better to retain the old dividing line for another year at least.

When dealing with the number of days on which rain falls, which is the basis of the present discussion, we are confronted with the necessity of selecting the records to be discussed with exceptional care. The first condition to be observed is that the stations should be as nearly as possible equidistant so as to form a complete and uniform network covering every part of the British Isles. This makes it possible to accept the numerical mean of the figures as representing the general distribution over the country of the feature under discussion. The second and equally essential condition is that every record used shall be perfect not only as to the accurate measurement of the amount, but also as to the punctuality of observations at 9 a.m., and as to the regular daily inspection of the gauge whether rain has fallen or not. It sometimes happens that two observers situated close together report a nearly identical annual total rainfall, but that one gives this as the result of measurements on 120 days, the other on 180 days. The amount was probably equally correct in each case, but there is little doubt that the smaller number of rain days is a result of failing to visit the rain gauge *every* morning. In a few cases a great reduction of recorded rain days has been traced to a mistake in graduating the measuring glass, the division representing ·01 in. being so large that many small falls were neglected as apparently below the limiting value.

Even in the best records the variation in the number of days with only ·01 in. recorded is considerable, and consequently the actual number of days is not to be treated too rigidly. It might perhaps be well to disregard differences of less than five days in such cases and deal with rounded figures only, but the attention of our readers being called to this element of doubt we prefer to quote the figures as they actually occur. A like uncertainty does not occur in the frequency of falls of greater amount than ·01 in., and the figures quoted for these can, we believe, be trusted implicitly.

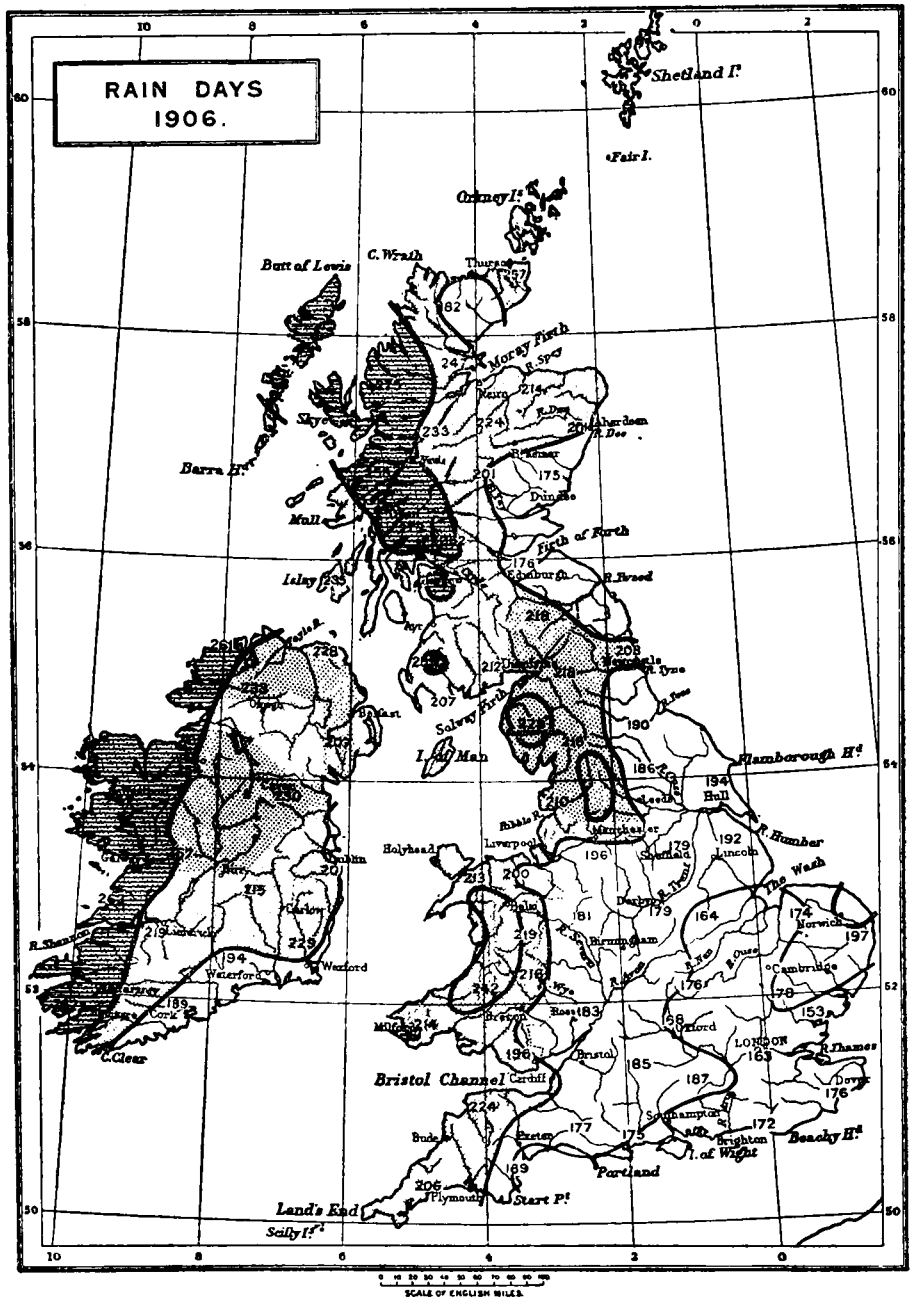
We consider first the number of rain days and the relative intensity of daily rainfall, then the occurrence of droughts or dry spells, and finally the occurrence of rain spells or long runs of consecutive rain days.

I.—Rain Days and Intensity of Rainfall in 1906.

The accompanying map shows the distribution of the number of rain days in 1906. It is based on the records published in the following table from the 73 selected and tested stations to which we have already referred. As compared with the average the year 1906 shows a considerably larger area with more than 200 rain days in Ireland, and a larger area also in the west of England and Wales, while in this respect Scotland is nearly normal. The greatest number of rain days recorded at any of the 73 stations was 275 at Bendamph, the smallest number was 153 at Colchester. On turning to the pages of the General Table a number of records will be found with much smaller values, and it is quite probable that many of these are correct, and that in some parts of the east of England there were in 1906 fewer than 150 rain days; but we believe that in most of these cases the gauge was either considerably more than the standard height above the ground or else that it was not visited every day. Where we had evidence that the gauge had not been so visited we omitted the number of days rather than publish a figure which we knew to be misleading. The regularity of the increase of the number of rain days from south-east to north-west is strikingly shown on this occasion.

The mean intensity of daily rainfall is obtained by dividing the total rainfall for the year by the number of rain days, and this was found to be greatest at Seathwaite where it was ·57 in., almost the same as in 1905, but decidedly less than the average for 40 years.

The smallest mean intensity of daily rainfall was ·12 in. at Ross, while ·13 in. was the value for several places.



The following statement shows the relation of the larger divisions of the British Isles to the average of 12 years. It is seen that the number of rain days was everywhere from 11 to 20 above that

average, while the total rainfall in England and Wales was slightly and in Scotland greatly above the average, whereas in Ireland it was decidedly below the average. The daily intensity was thus practically the average in Scotland, a little below the average in England and Wales, and very decidedly below the average in Ireland.

	Average 1891—1902.*			Year 1906.†			Difference from Average.		
	No. of Rain Days.	Total Fall.	Rate per Rain Day.	No. of Rain Days.	Total Fall.	Rate per Rain Day.	No. of Rain Days.	Total Fall.	Rate per Rain Day.
		in.	in		in.	in.		in.	in.
England & Wales	181	35·57	·197	192	36·44	·190	+11	+ ·87	—·007
Scotland	206	43·93	·213	226	48·54	·215	+20	+4·61	+·002
Ireland	216	42·38	·196	231	39·45	·171	+15	—2·93	—·025
British Isles	197	39·63	·201	210	40·25	·192	+13	+ ·62	—·009

* Average of 62 Stations. † Average of 73 Stations.

Expressing the differences from the average in the form of percentages, we have the following comparison of the four years for which the records are available :—

Difference from Averages of 1891–1902 *expressed as percentages.*

	1903.		1904.		1905.		1906.	
	Rain Days.	Total R.	Rain Days.	Total R.	Rain Days.	Total R.	Rain Days.	Total R.
England & Wales	+17	+26	+4	—11	+3	—16	+ 6	+ 2
Scotland	+18	+35	+6	— 3	+8	— 2	+10	+10
Ireland	+17	+21	+7	— 2	+2	—15	+ 7	— 7
British Isles	+16	+26	+5	— 8	+3	—12	+ 7	+ 2

This summary shows that the number of rain days in 1906 was greater than the average for twelve years by 7 per cent. for the British Isles as a whole, while the total fall of rain only exceeded the average for the same period by 2 per cent. This is, of course, the result of a smaller number of stations, and is thus less trustworthy than the figure given in the special section on the rainfall of the year.

We have now to consider the number of days on which falls of rain of various amounts occurred, full particulars of which at the 73 stations are given in the large Table which follows. This Table may be summarized in various ways, but bearing in mind the

marked differences in the rainfall *régime* in the larger divisions of the British Isles, we deal separately with the three kingdoms.

England and Wales.

General Number of Days on which various amounts fell.

Year.	in. ·01	in. ·02-·04	in. ·05-·09	in. ·10-·24	in. ·25-·49	in. ·50-·99	in. 1·00-1·99	in. 2·00 or over.	Total.
1903...	24	39	36	52	35	19	5	1	211
1904...	24	41	34	47	28	12	2	0	188
1905...	26	42	35	45	24	12	2	0	186
1906...	21	38	35	50	31	14	3	0	192

It thus appears that the number of days with ·01 in. was less than in any of the other years dealt with, but that the frequency of falls between one-tenth of an inch and two inches was greater than in 1905 or 1904, though, of course, less than in the very wet year 1903. The number of stations quoted as recording falls of 2 inches or more in one day was 4, and of those recording 1 inch or more 28. The frequency of falls exceeding an inch was greatest at Seathwaite, where it amounted to 41. One of the most interesting points which now begins to appear is that in England, as in the other divisions of the British Isles, the amount which is most likely to fall in a rain day is between ·10 in. and ·24 in., in other words, between a tenth and a quarter of an inch. The reduction in the frequency of very small falls in the north-west is strikingly shown in the case of Sedbergh, where only 2 days with ·01 in. were recorded.

Scotland.

General Number of Days on which various amounts fell.

Year.	in. ·01	in. ·02-·04	in. ·05-·09	in. ·10-·24	in. ·25-·49	in. ·50-·99	in. 1·00-1·99	in. 2·00 or over.	Total.
1903...	21	39	39	63	48	27	7	0	244
1904...	19	42	42	58	36	18	4	0	219
1905...	19	43	40	61	37	19	3	0	222
1906...	18	42	37	60	44	20	4	1	226

In Scotland the frequency of rainfalls of small amounts has varied curiously little from year to year, but 1906 and 1903 show more frequent falls of ·25 in. and over than the two intervening years. The heaviest falls have been exceptionally numerous, no less than 7 of the 19 stations recording days with 2·00 in. or more in 1906, while all but one had falls exceeding 1·00 in. At Islay, Strontian, Bendamph and Altnaharra we are inclined to question the small number of days with very small falls, some of these stations appearing

rather anomalous on the map of the total number of rain days; but, on the other hand, the very large number of days with ·01 in. at some stations almost suggests the use of a glass with the ·01 division on the scale placed too low.

Ireland.

General Number of Days on which various amounts fell.

Year.	in. ·01	in. ·02-·04	in. ·05-·09	in. ·10-·24	in. ·25-·49	in. ·50-·99	in. 1·00-1·99	in. 2·00 or over.	Total.
1903...	23	41	42	72	50	20	4	0	252
1904...	24	42	41	67	40	15	2	0	231
1905...	20	46	46	63	31	13	2	0	221
1906...	16	44	42	75	40	13	1	0	231

The remarkable feature of the distribution of daily intensity of rainfall in Ireland in 1906 was the extraordinary predominance of days with between one-tenth and one-quarter of an inch of rain; the number of days within that range being greater than even in 1903. On the other hand, very light falls were less frequent than in previous years, and falls of 1·00 in. or more were also less frequent, while no instance of a fall exceeding 2·00 in. occurred amongst the 16 selected stations.

Turning once more to the British Isles as a whole, the frequency of falls of 1·00 in. or more may be seen in the following summary, which shows that the number of stations which never received so heavy a fall in the year was less than in 1905 but greater than in the two previous years, while the number of stations reporting falls of 1·00 in. or more, more than three times in the year, was greater than in 1904 or 1905, though much less than in 1903.

Falls of 1·00 *in. or more.*

	Number of Stations out of 73 reporting				
	Never.	One occasion.	Twice.	Three or Four times.	Five or more times.
1903.....	1	6	13	25	27
1904.....	10	33	13	8	9
1905.....	23	19	9	12	10
1906.....	15	21	11	12	14

In conclusion, we give a table which enables the relative intensity of daily rainfall in different parts of the country to be compared by counting the number of days on which each range of intensity occurred as a proportional part of the general number of rain days for the country, *i.e.*, 210 for 1906. Three selected stations and six groups of stations of various magnitude are given.

Frequency of Falls of Rain in 1906 *reduced to* 210 *rain days.*

	·01 in.	·02-·04 in.	·05-·09 in.	·10-·24 in.	·25-·49 in.	·50-·99 in.	1·00-1·99 in.	2·00 in. and over.
STATIONS.								
Camden Square.....	35	48	43	40	37	6	0	1
Seathwaite..... .	8	20	12	40	46	47	29	8
Inveraray	21	37	18	55	44	28	6	1
GROUPS.								
England, I.—IV....	33	42	42	52	30	10	1	0
England and Wales	23	42	38	55	34	15	3	0
Wales & Lake Dist.	15	35	31	57	41	23	8	0
Scotland.....	17	39	34	56	41	18	4	1
Ireland	15	40	38	68	36	12	1	0
British Isles	20	40	37	58	37	15	3	0

Intensity of Daily Rainfall and Number of Rain Days at 73 Stations in 1906.

Div.	STATION.	Number of Days on which various amounts of Rain fell.								No. of Rain Days.	Total Rainfall.	Amount per Rain day.
		in. ·01.	in. ·02-·04.	in. ·05-·09	in. ·10-·24.	in. ·25-·49.	in. ·50-·99.	in. 1·00-1·99.	in. 2·00 or over			
	ENGLAND & WALES.										in.	in.
I.	St. Pancras, Camden Square.....	27	37	33	31	29	5	0	1	163	24·26	·15
II.	Hythe, Hillcrest Road	22	32	32	49	29	12	0	0	176	28·23	·16
,,	Brighton, Old Steyne.....	30	31	24	47	31	8	1	0	172	27·95	·16
,,	Bournemouth, Kempsey	30	31	26	41	28	17	2	0	175	32·52	·19
,,	Basingstoke, Sherborne St. John	31	36	43	33	32	8	4	0	187	30·34	·16
III.	Oxford, Magdalen College	31	37	32	43	19	5	1	0	168	22·24	·13
,,	Blisworth, Crieff House...	34	39	32	44	16	9	2	0	176	24·79	·14
IV.	Colchester, Lexden.....	12	35	37	41	20	8	0	0	153	21·59	·14
,,	Saffron Walden	24	37	36	50	25	5	1	0	178	25·65	·14
,,	Geldeston [Beccles].....	34	40	48	43	24	8	0	0	197	26·09	·13
,,	Swaffham	24	31	39	45	26	8	1	0	174	26·42	·15
V.	Bishops Cannings	25	38	30	46	36	9	1	0	185	30·14	·16
,,	Torquay, Cary Green.....	20	34	33	42	29	10	1	0	169	28·53	·17
,,	Barnstaple, N. Devon Athenæum	6	52	40	75	33	18	0	0	224	40·77	·18
,,	St. Austell, Trevarna.....	7	36	43	57	44	16	3	0	206	43·08	·21
,,	Crewkerne, Merefield House ...	28	33	37	37	24	14	4	0	177	32·19	·18
VI.	Ross, The Graig	35	40	44	38	16	9	1	0	183	22·21	·12
,,	Shifnal, Neachley	14	32	41	53	36	5	0	0	181	28·13	·16
VII.	Market Overton	12	28	37	58	19	6	4	0	164	28·13	·17
,,	Caistor, Castlemount	24	44	35	50	30	7	2	0	192	29·09	·15
,,	Worksop, Hodsock Priory	25	41	39	49	16	8	1	0	179	23·43	·13
,,	Chellaston.....	26	36	35	53	23	4	2	0	179	25·84	·14
VIII.	Wilmslow, Parksyde	16	31	39	60	41	9	0	0	196	33·05	·15
,,	St. Michael's-on-Wyre Vicarage	23	34	40	52	42	19	0	0	210	38·13	·18
IX.	Wetherby, Ribston Hall.....	6	55	32	56	27	10	0	0	186	27·93	·15
,,	Sedbergh, Akay	2	33	32	56	46	39	10	0	218	66·27	·30
,,	Lowthorpe, The Elms	36	45	29	54	21	9	0	0	194	24·83	·13

Intensity of Daily Rainfall and Number of Rain Days at 73 Stations in 1906—(*continued*).

Div.	STATION.	Number of Days on which various amounts of Rain fell.								No. of Rain Days.	Total Rainfall.	Amount per Rain Day.
		in. ·01.	in. ·02-·04.	in. ·05-·09.	in. ·10-·24	in. ·25-·49.	in. ·50-·99.	in. 1·00-1·99.	in. 2·00 or over		in.	in.
	ENGLAND & WALES—(*con.*)											
X.	Darlington, Hurworth Grange...	19	59	31	53	20	7	1	0	190	24·72	·13
,,	Morpeth, Bothalhaugh	49	42	46	36	19	13	3	0	208	29·21	·14
,,	Borrowdale, Seathwaite.....	9	22	13	43	50	51	32	9	229	130·66	·57
,,	Brampton, Denton House	21	48	47	54	33	13	2	0	218	36·59	·17
XI.	Llantrisant, Talygarn.....	12	32	17	52	47	23	12	1	196	61·20	·31
,,	Llanwrda, Dolaucothy	12	40	29	67	53	36	5	0	242	59·26	·25
,,	Haverfordwest, High Street.....	20	38	35	53	43	17	8	0	214	50·40	·24
,,	New Radnor, Ednol	17	44	34	65	39	17	0	0	216	38·65	·18
,,	Lake Vyrnwy	10	31	37	66	46	20	9	0	219	55·39	·25
,,	Denbigh, Garn.....	23	37	41	54	34	10	1	0	200	31·88	·16
,,	Bethesda, St. Ann's Vicarage ...	7	33	37	65	35	28	7	1	213	55·40	·26
	SCOTLAND.											
XII.	Whithorn, Cutroach	10	41	41	64	42	8	1	0	207	35·49	·17
,,	Lincluden House [Dumfries].....	16	36	46	59	38	14	3	0	212	39·83	·19
,,	Lilliesleaf, Riddell House	29	42	35	62	35	15	0	0	218	34·68	·16
XIII.	Edinburgh, Royal Observatory...	25	44	20	38	33	14	2	0	176	31·22	·18
XIV.	Girvan, Pinmore	20	55	36	70	56	16	5	1	259	54·14	·21
XV.	Buchlyvie, The Manse	28	41	38	60	58	23	3	1	252	53·34	·21
,,	Inveraray, Newtown	27	48	23	72	57	37	8	1	273	74·05	·27
,,	Strontian, Laudale	1	32	42	66	60	45	12	0	258	80·23	·31
,,	Islay, Eallabus.....	1	34	35	83	65	16	1	0	235	50·12	·21
XVI.	Blair Atholl	14	40	38	50	44	13	2	0	201	37·74	·19
,,	Forfar, Lilyfield	20	46	29	43	19	14	4	0	175	30·50	·17
XVII.	Aberdeen, Cranford.....	15	55	37	48	32	10	4	0	201	35·63	·18
,,	Keith.....	23	52	33	63	26	13	2	2	214	39·25	·18
XVIII.	Fort Augustus, St. Benedicts ...	14	47	44	62	34	25	7	0	233	51·58	·22
,,	Alvey Manse....	35	47	43	53	26	15	4	1	224	38·65	·17

Intensity of Daily Rainfall and Number of Rain Days at 73 Stations in 1906—(*continued*).

Div.	STATION.	Number of Days on which various amounts of Rain fell.								No. of Rain Days.	Total Rainfall.	Amount per Rain Day.
		in. ·01.	in. ·02-·04.	in. ·05-·09.	in. ·10-·24.	in. ·25-·49.	in. ·50-·99.	in. 1·00-1·99.	in. 2·00 or over		in.	in.
	SCOTLAND—(*con.*)											
XVIII.	Loch Torridon, Bendamph.....	3	16	39	87	82	30	14	4	275	94·95	·35
,,	Alness, Ardross Castle	38	54	37	44	50	19	4	1	247	48·72	·20
XIX.	Altnaharra.....	2	16	33	57	37	33	4	0	182	52·32	·29
,,	Castletown, The Clett.....	27	60	50	65	42	12	1	0	257	39·80	·15
	IRELAND.											
XX.	Cork, The Palace	25	36	32	54	31	10	1	0	189	30·36	·16
,,	Darrynane Abbey	21	44	48	74	54	18	3	0	262	50·99	·19
,,	Clonmel, Bruce Villa.....	11	46	43	52	33	9	0	0	194	29·62	·15
,,	Limerick, Roxborough.....	7	43	47	71	36	13	2	0	219	38·39	·18
,,	Miltown Malbay	21	45	48	73	59	15	1	0	262	47·78	·18
XXI.	Enniscorthy, Ballyhyland.....	38	51	33	72	24	9	2	0	229	34·80	·15
,,	Bray, Fassaroe.....	15	51	40	53	30	11	1	0	201	31·78	·16
,,	Mountrath, Castletown	15	41	34	89	27	9	0	0	215	33·86	·16
,,	Moynalty, Westland	18	41	53	77	27	13	1	0	230	36·01	·16
XXII.	Woodlawn	12	49	43	83	50	19	1	0	257	47·98	·19
,,	Westport, St. Helen's.....	11	44	35	94	50	11	2	0	247	45·67	·18
,,	Collooney, Markree Observatory	19	52	31	91	45	14	2	0	254	44·57	·17
XXIII.	Banbridge, Milltown	5	47	50	67	27	10	1	0	207	31·88	·15
,,	Bushmills, Dundarave.....	12	34	53	79	40	10	0	0	228	36·44	·16
,,	Newtown Stewart, Baron's Court	7	41	35	81	53	15	1	0	233	44·40	·19
,,	Horn Head	24	45	39	84	54	15	0	0	261	46·62	·18
	ENGLAND & WALES (Mean).....	21	38	35	50	31	14	3	0	192	36·44	·19
	SCOTLAND (,,).....	18	42	37	60	44	20	4	1	226	48·54	·21
	IRELAND (,,).....	16	44	42	75	40	13	1	0	231	39·45	·17
	BRITISH ISLES (,,).....	20	40	37	58	37	15	3	0	210	40·25	·19

II.—Droughts in 1906.

The two varieties of dry spell which have been dealt with in these pages in past years are—

I. The ABSOLUTE DROUGHT, or period of *more than* 14 consecutive days no one of which is a rain day.

II. The PARTIAL DROUGHT, or period of *more than* 28 consecutive days the mean rainfall of which does not exceed ·01 in. per day.

These definitions may not possess ideal perfection, but they have stood the test of time and they furnish a valuable basis of comparison. Formerly the droughts were studied from 50 selected stations, but since 1903 73 stations uniformly distributed over the British Isles have been used for the purpose, and there are now four years which can be compared on the extended basis :—

Comparison of Droughts at 73 Stations.

	ABSOLUTE DROUGHTS.				PARTIAL DROUGHTS.			
	No. of Droughts at 73 Stations	Duration. Mean.	Duration. Greatest.	Stations without one.	No. of Droughts at 73 Stations	Duration. Mean.	Duration. Greatest.	Stations without one.
		days.	days.			days.	days.	
1903	16	19	25	57	24	34	41	51
1904	9	16	18	64	13	34	41	60
1905	19	17	20	54	43	36	48	44
1906	53	17	25	34	29	36	55	45

Since 53 absolute droughts occurred at the 73 stations and only 34 stations were without one it is plain that droughty conditions were much more pronounced in 1906 than in the three preceding years, and although the 29 partial droughts recorded at the 73 stations, 45 of which reported none, were less than in 1905 they were more than in 1903 or 1904. The summary Table at the end of the section shows the four latest years with the number of droughts reduced to their equivalent for 50 stations, so as to be comparable with the 18 years immediately preceding. It is seen that 11 of these years had fewer absolute droughts, one had the same number and six had more, while in 5 of the years there were fewer stations which did not record an absolute drought and in

12 years there were more. It thus appears that in 1906 absolute droughts were somewhat more prevalent than on the average of eighteen years, while partial droughts were less prevalent to nearly the same degree.

The detailed Table which follows gives the particulars of the droughts reported at each of the 73 selected stations where any occurred, those reporting no instances being excluded to save space, but all the stations are named in the foregoing Table of the Intensity of Rainfall.

There were three periods of absolute drought. The first, beginning at various dates from the 18th to the 28th of March and ending between the 3rd and 18th of April, affected 22 stations, mainly in England and Wales, but also in Scotland and the south-west of Ireland. The last fortnight of March and the first fortuight of April were in fact very dry in all parts of the British Isles.

The second period of absolute drought was between June 1st and 19th, but it affected only five out of the 73 stations, all except two—one in North Wales and one in the north of Ireland—being in the west of Scotland.

The third and most important absolute drought occurred in August and September and was reported from 23 stations scattered pretty well over the whole of the British Isles. It was remarkable that at Crewkerne and Ross two absolute droughts occurred separated by a very few rain days, the earlier from August 25th to September 10th, the second from September 16th to 30th. It is somewhat surprising that these droughts were not more numerous and widepread considering the very small rainfall of the summer months, and indeed but for the occurrence of falls of ·01 in., which might have been the result of dew, the number to be recorded would have been considerably increased. A fuller discussion of the deficiency of rain in summer will be found in the section on Monthly Rainfall. The partial droughts reported fail to call attention to the dryness of the summer months. The absolute drought of August—September was only prolonged into a partial drought at Cork and Bray, two stations out of the 73. Between June 29th and July 23rd four stations in the south or east of England reported partial droughts, but none occurred in the region where absolute droughts prevailed at that time. The only widespread partial drought of the year was that which was reported from 23 stations, commencing between March 13th and 26th and

terminating between April 15th and May 1st—thus including the period of the great March-April absolute drought. It was mainly confined to England and Wales, but two stations in Scotland and one in Ireland fell within its area.

A map is given, p. [138], as in previous years, showing by signs the stations reporting one or two absolute or partial droughts; the only large areas where no droughts of any kind were reported from the selected stations being in the centre and west of Ireland and in the east of Scotland.

Droughts in 1906.

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
ENGLAND & WALES.			Days			Days	in.
St. Pancras (Camden Square) ... *London, North.*	Mar. 27	Apr. 12	17	Mar. 24	Apr. 26	34	·34
Hythe (Hillcrest Road) ..... *Kent, East.*	Mar. 27	Apr. 17	22	None			
Brighton (Old Steyne)..... *Sussex, East.*	None			June 30	Aug. 13	45	·45
Bournemouth (Kempsey) ..... *Hampshire.*	Sep. 16	Sep. 30	15	None			
Basingstoke (Sherborne St. John) *Hampshire.*	None			July 14	Aug. 12	30	·26
Oxford (Magdalen College) ..... *Oxfordshire.*	Mar. 27	Apr. 12	17	Mar. 27	May 1	36	·36
Blisworth (Crieff House)..... *Northamptonshire.*	Aug. 25	Sep. 10	17	None			
Colchester (Lexden)..... *Essex.*	Mar. 27	Apr. 17	22	Mar. 25 June 30	Apr. 22 Aug. 23	29 55	·25 ·51
Saffron Walden..... *Essex.*	Mar. 27	Apr. 16	21	None			
Swaffham ..... *Norfolk.*	Aug. 26	Sep. 11	17	None			

Droughts in 1906—(*continued*).

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
ENGLAND & WALES-(*con.*)			Days			Days	in.
Torquay (Cary Green)..... *Devon, South.*	Mar. 27 Sep. 16	Apr. 10 Sep. 30	15 15	Mar. 14	Apr. 23	41	·19
St. Austell (Trevarna) ..... *Cornwall.*	Mar. 25	Apr. 18	25	Mar. 14	Apr. 23	41	·29
Crewkerne (Merefield House) ... *Somerset, South.*	Aug. 25 Sep. 16	Sep. 10 Sep. 30	17 15	Mar. 16	Apr. 23	39	·35
Ross (The Graig) .... *Herefordshire.*	Aug. 25 Sep. 16	Sep. 10 Sep. 30	17 15	Mar. 14	Apr. 22	40	·40
Shifnal (Neachley) ..... *Shropshire.*	Mar. 28 Aug. 25	Apr. 11 Sep. 12	15 19	None			
Market Overton ..... *Rutland.*	Apr. 3 Aug. 25	Apr. 20 Sep. 12	18 19	Mar. 26	Apr. 26	32	·32
Caistor (Castlemount)..... *Lincolnshire.*	Aug. 27	Sep. 12	17	None			
Worksop (Hodsock Priory) ..... *Nottinghamshire.*	Mar. 27 Aug. 26	Apr. 11 Sep. 12	16 18	June 29	July 27	29	·18
Chellaston ..... *Derbyshire.*	None			Mar. 13	Apr. 22	41	·39
Wilmslow (Parksyde)..... *Cheshire.*	Mar. 25	Apr. 11	18	None			
St. Michael's-on-Wyre Vicarage. *Lancashire, North.*	Mar. 23	Apr. 6	15	Mar. 17	Apr. 22	37	·35
Wetherby (Ribston Hall) ..... *Yorkshire, W.R. (N.)*	Mar. 28 Aug. 26	Apr. 12 Sep. 12	16 18	Mar. 27	Apr. 25	30	·30
Lowthorpe (The Elms) ..... *Yorkshire, E.R.*	Aug. 26	Sep. 12	18	None			
Darlington (Hurworth Grange)... *Durham.*	Aug. 27	Sep. 12	17	None			
Morpeth (Bothalhaugh) ..... *Northumberland.*	Aug. 27	Sep. 10	15	Mar. 25	Apr. 22	29	·24
Borrowdale (Seathwaite) ..... *Cumberland.*	None			Mar. 18	Apr. 15	29	·25

Droughts in 1906—(*continued*).

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
ENGLAND & WALES-(*con.*)			Days			Days	in.
Brampton (Denton House)..... *Cumberland.*	None			Mar. 17	Apr. 15	30	·27
Llantrisant (Talygarn) ..... *Glamorganshire.*	Mar. 18 Sep. 16	Apr. 4 Sep. 30	18 15	Mar. 17	Apr. 23	38	·32
Llanwrda (Dolaucothy) ..... *Carmarthenshire.*	Sep. 16	Sep. 30	15	Mar. 17	Apr. 20	35	·34
Haverfordwest (High Street) ... *Pembrokeshire.*	Aug. 26	Sep. 11	17	Mar. 16	Apr. 23	39	·39
Lake Vyrnwy ..... *Montgomeryshire.*	Mar. 26	Apr. 11	17	Mar. 20	Apr. 21	33	·30
Denbigh (Garn) ..... *Denbighshire.*	Mar. 24	Apr. 11	19	Mar. 16	Apr. 22	38	·31
Bethesda (St. Ann's Vicarage) ... *Carnarvonshire.*	Mar. 28 June 3	Apr. 13 June 17	17 15	None			
SCOTLAND.							
Whithorn (Cutroach) ..... *Wigtonshire.*	Sep. 16	Sep. 30	15	Mar. 17	Apr. 20	35	·25
Lincluden House [Dumfries]..... *Kirkcudbright.*	Mar. 30 June 1	Apr. 15 June 15	17 15	Mar. 18	Apr. 19	33	·27
Girvan (Pinmore)..... *Ayrshire.*	Mar. 23	Apr. 6	15	None			
Buchlyvie (The Manse) ..... *Stirlingshire.*	Mar. 25	Apr. 14	21	Mar. 17	Apr. 14	29	·25
Strontian (Laudale)..... *Argyll, Mainland.*	June 1	June 18	18	None			
Islay (Eallabus) ..... *Argyll, Insular.*	June 1 Sep. 16	June 15 Sep. 30	15 15	None			
Blair Atholl ..... *Perthshire.*	Mar. 26	Apr. 11	17	None			
Loch Torridon (Bendamph) ..... *Ross and Cromarty, West.*	June 5 Sep. 10	June 19 Oct. 1	15 22	None			

Droughts in 1906—(*continued*).

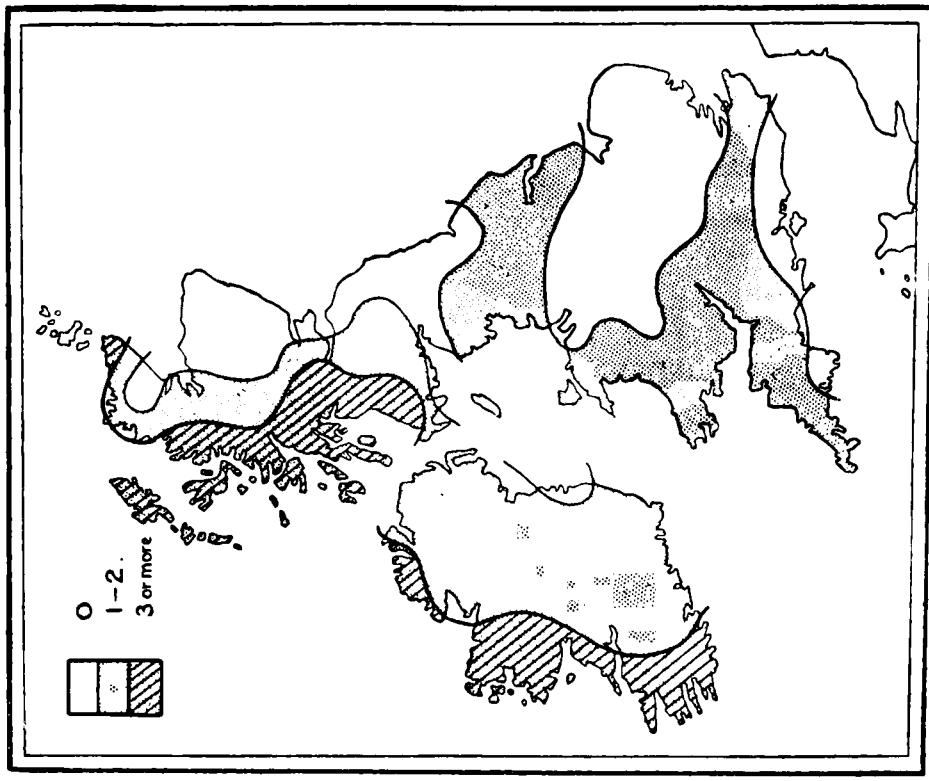
STATION & COUNTY.	ABSOLUTE DROUGHTS. Began.	Ended.	Last	PARTIAL DROUGHTS. Began.	Ended.	Lasted.	Amount.
			Days			Days	in.
IRELAND.							
Cork (The Palace) ..... *Cork.*	Mar. 19 Sep. 15	Apr. 3 Sep. 29	16 15	Aug. 25	Sep. 29	36	·35
Limerick (Roxborough) ..... *Limerick.*	Mar. 18	Apr. 4	18	None			
Bray (Fassaroe)..... *Wicklow.*	None			Aug. 25	Sep. 29	36	·24
Moynalty (Westland) ..... *Meath.*	None			Mar. 19	Apr. 18	31	·31
Bushmills (Dundarave) ..... *Antrim.*	June 1 Sep. 16	June 15 Sep. 30	15 15	None			

Comparative Summary of Droughts.

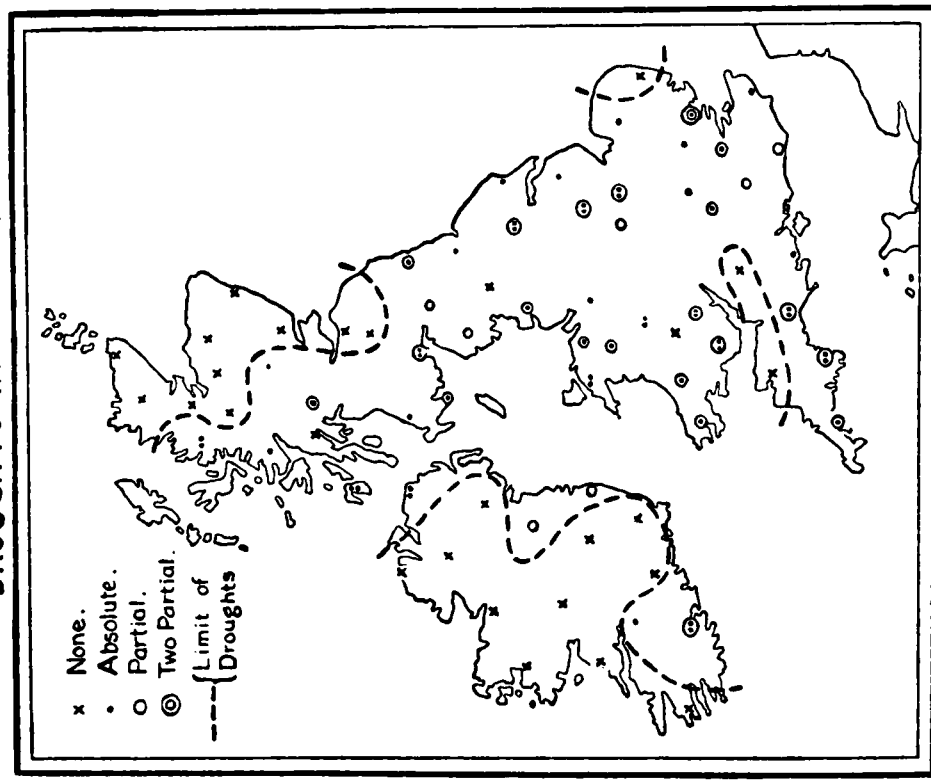
	ABSOLUTE DROUGHTS. No. of Droughts at 50 Stations	Duration. Average.	Duration. Greatest.	Stations without one.	PARTIAL DROUGHTS. No. of Droughts at 50 Stations	Duration. Average.	Duration. Greatest.	Stations without one.
		days.	days.			days.	days.	
1888	17	17	20	35	4	42	50	46
1889	42	21	30	13	38	34	45	15
1890	13	18	20	39	3	30	31	47
1891	26	18	34	28	38	36	49	14
1892	36	16	20	25	17	35	64	33
1893	39	20	44	23	53	51	114	10
1894	52	18	31	10	44	37	62	13
1895	52	19	29	16	47	39	64	19
1896	27	18	26	25	49	40	75	16
1897	20	18	20	31	7	40	61	44
1898	31	17	28	27	31	38	77	26
1899	60	21	31	10	41	35	48	20
1900	14	17	21	38	9	32	35	41
1901	56	17	20	10	9	37	56	42
1902	5	17	18	45	2	37	41	48
1903*	11	19	25	39	16	34	41	35
1904*	6	16	18	44	9	34	41	42
1905*	13	17	20	37	29	36	48	30
Mean	29	18	25	28	25	37	56	30
1906*	36	17	20	23	20	36	55	31
Diff.	+7	—1	—5	—5	—5	—1	—1	+1

* Reduced to value of 50 stations for comparison.

RAIN SPELLS IN 1906.



DROUGHTS IN 1906.



III.—Rain Spells.

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

It is thus the antithesis of an absolute drought, and the occurrence of such spells deserves as careful study as the occurrence of spells of rainless days. The investigation of rain spells has only been carried on since 1903, so that although the period is not long enough to yield averages of any value, there are four years which may be compared.

Comparative Table of Rain Spells at 73 Stations.

Year.	No. of Rain Spells.	DURATION OF SPELLS. Mean.		Greatest.		STATIONS WITH			
		days.	Mean R per day. in.	days.	Mean R per day. in.	None.	1 or 2.	3 or 4.	5 or more.
1903...	203	22	·28	52	·51	8	30	19	16
1904...	111	19	·22	34	·27	23	37	8	5
1905...	88	19	·24	44	·38	33	28	9	3
1906...	91	21	·25	50	·40	28	34	8	3

The rain spells of 1906 are seen by the above comparison to have been remarkably similar to those of 1905, in number, duration, intensity and frequency of occurrence. The mean duration was, indeed, somewhat greater, and the mean rainfall per day was also somewhat greater than in the two previous years, though both fell short of the values obtained in 1903. The longest rain spell, however, very nearly equalled the longest in 1903.

Altogether 91 rain spells were reported at the 73 stations used for the study of the time relations of rainfall, and 28 of the stations did not record one. The distribution of rain spells is indicated in the accompanying map, the unshaded part having none recorded; the slightly shaded portion 1 or 2, and the portion more darkly shaded 3 or more. The increase of frequency of rain spells in the wet districts of the west and north is clearly shown. The severity of rain spells may be measured either by their length or their intensity. With regard to the former, the traditional "forty days" associated with St. Swithin and other rain saints seems a convenient limit, and in 1906 two instances exceeding this limit were reported. The longest was at Bendamph, on Loch Torridon, where there was

rain on 50 consecutive days, from January 3rd to February 21st, during which time 19·90 in. fell, at the average rate of ·40 in. per day; and after a break of 3 days, rain fell again from February 25th to March 25th, 29 days, with 9·44 in. Thus, of the first 84 days of the year rain fell on 79, the total being 29·34 in. At Inveraray, also in the west of Scotland, rain fell daily for 49 days, from July 12th to August 29th, during which time 10·86 in. fell, at the average rate of ·22 in. per day. There were altogether 7 rain spells of 30 or more days' duration, all in the west of Scotland, and the average duration of the 91 recorded was 21 days. It is singular that at Seathwaite, the station with the greatest rainfall, there was only one rain spell, and that only of the mean duration.

The following little Table gives all the instances of rain spells reported with a mean rate of ·40 in. or more per day.

Rain Spells of a Mean Rate of ·40 *in. or more per day in* 1906.

Div.	Station.	Began.	Ended.	Lasted.	Total Fall.	Rain per Day.		
						Max.	Min.	Mean.
				days.	in.	in.	in.	in.
X.	Seathwaite	Oct. 4	Oct. 24	21	10·20	2·47	·01	·49
XI.	Lake Vyrnwy	Jan. 1	Jan. 18	18	7·54	1·05	·06	·42
XV.	Strontian	Jan. 2	Jan. 20	19	8·39	1·15	·05	·44
XVIII.	Bendamph	Jan. 3	Feb. 21	50	19·90	2·10	·01	·40
,,	,, ...	July 4	July 24	21	8·77	2·45	·02	·42
,,	,, ...	Nov. 16	Dec. 5	20	15·81	1·93	·09	·79

The fall of 15·81 in. in 20 consecutive days at Bendamph is certainly a very remarkable occurrence.

Rain spells ended in every month of the year except April and September, but only one ended in June, three in July, and four in March. The greatest number ended in October and in January, when there were 19 each; the month which came next was May with 14. It thus appears that there were three important periods during which rain spells occurred, and the details concerning these may be gathered from the detailed Table which follows.

With the exception of Castletown in January, Lowthorpe in April–May, and Basingstoke, Riddell and Ardross Castle in October, the three wide-spread rain spells were experienced only in the extreme west of Great Britain and in Ireland. Each of the three covered substantially the same area, but that of April–May was least in extent and more scattered in distribution than the other two.

Table of Rain Spells, 1906.

STATION & COUNTY.	Began.	Ended.	Lasted.	Total Rain.	Rain Per Day. Max.	Min.	Mean
			Days	in.	in.	in.	in.
ENGLAND & WALES.							
Hythe (Hillcrest Road) ..... *Kent, East.*	Mar. 8	Mar. 26	19	2·11	·35	·01	·11
Basingstoke (Sherborne S. John) *Hampshire.*	Oct. 4	Oct. 20	17	4·10	1·32	·01	·24
Bishops Cannings..... *Wiltshire.*	Apr. 22	May 7	16	1·23	·27	·01	·08
Barnstaple (N Devon Athenæum) *Devonshire, North.*	Jan. 1	Jan. 18	18	5·46	·75	·03	·30
St. Austell (Trevarna)..... *Cornwall.*	Jan. 1	Jan. 21	21	6·64	1·31	·02	·32
Crewkerne (Merefield House)... *Somerset, South.*	Jan. 1	Jan. 18	18	6·67	1·40	·01	·37
	Apr. 23	May 7	15	1·13	·40	·01	·08
Ross (The Graig) ..... *Herefordshire.*	Apr. 20	May 5	16	1·58	·41	·01	·10
	Oct. 4	Oct. 18	15	2·39	·52	·01	·16
Caistor (Castlemount) ..... *Lincolnshire.*	Oct. 26	Nov. 9	15	5·49	1·35	·02	·37
St. Michael's-on-Wyre Vicarage *Lancashire, North.*	Oct. 7	Oct. 24	18	3·03	·66	·01	·17
Wetherby (Ribston Hall) ..... *Yorkshire, W.R. (N.)*	Oct. 24	Nov. 9	17	3·89	·70	·02	·23
Sedbergh (Akay) ..... *Yorkshire, W.R. (N.)*	Jan. 3	Jan. 18	16	6·17	·90	·04	·39
	Oct. 10	Oct. 24	15	3·57	·67	·03	·24
Lowthorpe (The Elms) ..... *Yorkshire, E.R.*	Apr. 21	May 10	20	1·74	·56	·01	·09
	Oct. 26	Nov. 9	15	3·39	·83	·01	·23
Morpeth (Bothalhaugh) ..... *Northumberland.*	Oct. 26	Nov. 9	15	3·04	·81	·01	·20
Borrowdale (Seathwaite)..... *Cumberland.*	Oct. 4	Oct. 24	21	10·20	2·47	·01	·49
Llantrisant (Talygarn)..... *Glamorganshire.*	Oct. 6	Oct. 21	16	3·42	·59	·02	·21
Llanwrda (Dolaucothy) ..... *Carmarthenshire.*	Apr. 22	May 9	18	3·95	·70	·02	·22
	Oct. 2	Oct. 24	23	7·00	1·30	·02	·30
Haverfordwest (High Street)... *Pembrokeshire.*	Oct. 1	Oct. 18	18	6·05	1·57	·01	·34
Lake Vyrnwy ..... *Montgomeryshire.*	Jan. 1	Jan. 18	18	7·54	1·05	·06	·42
	Oct. 4	Oct. 18	15	3·56	1·22	·01	·24
Bethesda (St. Ann's Vicarage). *Carnarvonshire.*	Oct. 5	Oct. 24	20	5·53	1·09	·02	·28

Table of Rain Spells, 1906—(*continued*).

STATION & COUNTY.	Began.	Ended.	Lasted.	Total Rain.	Rain per Day. Max.	Min.	Mean
			Days	in.	in.	in.	in.
SCOTLAND.							
Lincluden House [Dumfries] ...	Jan. 4	Jan. 18	15	2·66	·57	·01	·18
Kircudbright.	Apr. 27	May 13	17	2·62	·43	·01	·15
Lilliesleaf (Riddell)	Oct. 9	Oct. 24	16	2·92	·64	·01	·18
Roxburghshire.							
Girvan (Pinmore)	Jan. 1	Jan. 18	18	4·03	·51	·02	·22
Ayrshire.	July 26	Aug. 26	32	4·78	·66	·01	·15
	Oct. 5	Oct. 24	20	6·87	2·03	·02	·34
	Nov. 25	Dec. 18	24	7·11	1·13	·01	·30
Buchlyvie (The Manse)	Jan. 1	Jan. 20	20	5·98	1·02	·01	·30
Stirlingshire.	Apr. 25	May 9	15	1·72	·53	·01	·11
	Oct. 14	Nov. 4	22	6·60	·83	·01	·30
	Nov. 24	Dec. 13	20	4·77	1·11	·01	·24
Inveraray (Newtown)	Jan. 1	Feb. 3	34	9·94	1·15	·01	·29
Argyll, Mainland.	July 12	Aug. 29	49	10·86	·90	·01	·22
	Oct. 3	Oct. 30	28	9·96	1·21	·01	·36
	Nov. 14	Dec. 13	30	11·72	1·33	·01	·39
Strontian (Laudale)	Jan. 2	Jan. 20	19	8·39	1·15	·05	·44
Argyll, Mainland.	Jan. 22	Feb. 20	30	8·91	1·30	·02	·30
	July 5	July 24	20	6·27	1·57	·02	·31
	Nov. 29	Dec. 19	21	7·57	1·33	·03	·36
Islay (Eallabus)	Jan. 1	Feb. 3	34	7·06	·68	·01	·21
Argyll, Insular.	Feb. 5	Feb. 21	17	3·52	·44	·02	·21
	Oct. 6	Oct. 30	25	5·32	·51	·03	·21
Fort Augustus (St. Benedict's)	Nov. 24	Dec. 19	26	6·00	·88	·02	·23
Inverness, West.							
Loch Torridon (Bendamph) ...	Jan. 3	Feb. 21	50	19·90	2·10	·01	·40
Ross and Cromarty, West.	Feb. 25	Mar. 25	29	9·44	1·75	·05	·33
	Apr. 14	May 10	27	8·15	1·20	·06	·30
	July 4	July 24	21	8·77	2·45	·02	·42
	Oct. 2	Oct. 29	28	10·52	1·37	·02	·38
	Nov. 16	Dec. 5	20	15·81	1·93	·09	·79
Alness (Ardross Castle)	Aug. 12	Aug. 27	16	2·70	·73	·01	·17
Ross and Cromarty, East.	Oct. 7	Oct. 28	22	5·56	2·87	·01	·25
Castletown (The Clett)	Jan. 24	Feb. 12	20	5·43	1·84	·01	·27
Caithness.	Mar. 5	Mar. 25	21	2·09	·37	·01	·10
	Oct. 22	Nov. 6	16	2·07	·46	·01	·13
	Nov. 22	Dec. 5	22	6·27	·97	·01	·29
IRELAND.							
Cork (The Palace)	Jan. 1	Jan. 17	17	5·51	1·07	·01	·32
Cork.							

Table of Rain Spells, 1906—(*continued*).

STATION & COUNTY.	Began.	Ended.	Lasted.	Total Rain.	Rain per Day.		
					Max.	Min.	Mean
			Days	in.	in.	in.	in.
IRELAND—(*con.*)							
Darrynane Abbey.....	Jan. 1	Jan. 20	20	7·07	1·06	·02	·35
Kerry.	Feb. 5	Mar. 1	25	4·67	·45	·03	·19
	Apr. 21	May 5	15	3·03	1·16	·01	·20
	July 9	July 23	15	1·59	·35	·01	·11
	Oct. 20	Nov. 6	18	4·39	·56	·01	·24
Clonmel (Bruce Villa).....	Jan. 1	Jan. 18	18	4·30	·67	·02	·24
Tipperary.							
Limerick (Roxborough)	Apr. 22	May 6	15	2·45	·42	·02	·16
Limerick.							
Miltown Malbay	Jan. 1	Jan. 20	20	5·27	·67	·02	·26
Clare.	Apr. 19	May 10	22	2·93	·82	·01	·13
	Nov. 25	Dec. 16	22	4·28	1·02	·02	·19
Enniscorthy (Ballyhyland).....	Apr. 17	May 6	20	1·96	·32	·01	·10
Wexford.	Oct. 2	Oct. 18	17	3·91	1·29	·01	·23
Mountrath (Castletown)	Oct. 3	Oct. 17	15	2·55	·95	·01	·17
Queen's County.							
Moynalty (Westland).....	Jan. 1	Jan. 18	18	4·06	·57	·01	·23
Meath.	July 30	Aug. 17	19	3·59	·66	·01	·19
Woodlawn	Jan. 1	Jan. 18	18	5·39	·68	·02	·30
Galway.	May 15	June 1	18	3·07	·48	·01	·17
Westport (St. Helens).....	Jan. 5	Jan. 20	16	5·28	1·38	·04	·33
Mayo.	Feb. 5	Feb. 19	15	2·84	·55	·02	·19
	Apr. 19	May 7	19	2·45	·39	·02	·13
	July 30	Aug. 16	18	3·11	·39	·01	·17
	Nov. 13	Dec. 5	23	3·55	·42	·01	·15
Collooney(MarkreeObservat'ry)	Jan. 1	Jan. 18	18	4·69	·94	·01	·26
Sligo.							
Banbridge (Milltown)	Apr. 16	May 7	22	3·92	·85	·02	·18
Down.							
Bushmills (Dundarave)	Jan. 2	Jan. 18	17	2·79	·58	·01	·16
Antrim.	Oct. 4	Oct. 23	20	2·07	·42	·01	·10
Newtown Stewart (Baron's Court)	Oct. 11	Nov. 2	23	4·62	·82	·03	·20
Tyrone.							
Horn Head.....	Jan. 1	Jan. 20	20	5·20	·95	·02	·26
Donegal.	Jan. 24	Feb. 16	24	4·28	·93	·01	·18
	Oct. 11	Nov. 5	26	5·47	·89	·01	·21

MONTHLY RAINFALL OF 1906.

We suggested last year that this section could be made more complete, and consequently more useful, by printing the monthly values for all the stations from which they are received. This would involve doubling the number of pages in the General Table; but none of our readers was sufficiently interested in the suggestion to offer to help us to carry it into effect. We accordingly treat this section in the same way as in former years. The monthly figures are given for 230 stations, selected for their proved accuracy and uniform distribution over the country. These are, in fact, so uniformly distributed that the mean of each month for England and Wales, Scotland, Ireland, and the British Isles respectively may be taken with confidence as a correct index of the general rainfall of the month over those areas. The respective means are given in heavy type, and afford the best basis for comparing the total rainfall for each month over the whole country. By glancing along the four lines of heavy type in the Table one can see at once that in 1906, January and October were in general the wettest months with more than 5 inches, and in Scotland with more than 6 inches of rain. In Scotland May and November were also very wet, with more than 5 inches, and it is very rare to find four months in a single year exceeding so high a figure. June was the only month in Scotland with a general rainfall less than two inches; in Ireland, June and September both had less than two inches, and in England and Wales, where June had a considerable rainfall mainly because of the great fall of the 28th over the southern half of the country, April, July and September yielded little more than one inch of rain each. Taking the British Isles as a whole, April and September were the driest months. On the average, October is the wettest month of the year in most parts of the British Isles, although in the north and west December or January may come first in order of heavy rainfall. In order to see how the months varied from their average condition, it is necessary to consider stations which have a long record of accurate

observations, and when the shorter records are weeded out, it is found that only 69 are left. If the attempt to secure uniform distribution were confined to England and Wales a much closer network could be secured; but our readers must remember that in order to allow for the huge gaps in Ireland and Scotland, it is necessary to reduce the number of stations selected for the discussion in other parts of the country, if the arithmetical means are to be of any use as an indication of the general character of the rainfall of the country. The short Table which follows gives the rainfall at the 69 stations, in ratios to the average, which for each station is taken as 100. It thus shows at a glance the variations from month to month, and the means at the end give the general variations for the whole country. Ireland was very dry in November, and Scotland was wet in August, compared with the rest of the British Isles; but with these two exceptions, March and December were about the average, January, February, May, October and November were wet, and April, June, July, August and September were dry; the dryness of the summer months and the excessive dryness of September being the leading feature of the year.

The figures showing the percentage of the average at each station in the Table are also placed upon the monthly maps, and by means of lines and tints the maps show clearly the areas in which the variation from the average lay within certain limits.

JANUARY.

The month proved mild and very wet in most places, standing in contrast to the extremely dry December which preceded it. The east coast of Scotland, however, had less than the average rainfall, and the amount which fell at Aberdeen was but 68 per cent. of the average. Only a small patch in the west of Scotland had more than 50 per cent. above the average, and both the Lake District and Northumberland had less than that excess. A small portion of south-western Wales was in the same case, but over all the rest of England and Wales there was more than 150 per cent. of the average, and over a large part of it more than 200 per cent. More than twice the average rainfall occurred from the coast of the Channel north-eastward to Norfolk. Most of this region has normally a small rainfall, so that the figures were not very large except in Sussex and Hampshire, where some remarkable records were made, and many long-established stations report that the fall was unprecedented. In

TABLE I.—*Monthly Rainfall in* 1906: *the Average,* 1870–1899, *being taken as* 100.

Div.	Station.	Jan.	Feb.	Mar.	Apl.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
I.	St. Pancras, Camden Square ..	213	117	67	30	63	138	24	37	76	111	171	104	96
II.	Tenterden	154	120	94	81	118	61	19	26	65	126	180	74	97
,,	Arundel, Patching	238	130	82	66	149	74	22	45	37	114	199	82	108
,,	Osborne, Newbarn Cottage	262	177	80	71	112	82	34	37	50	150	142	70	111
,,	Basingstoke, Sherborne St. John	196	105	91	44	66	136	21	47	59	215	137	83	106
III.	Hitchin, Wratten	196	106	120	41	53	202	22	39	50	154	157	108	103
,,	Oxford, Magdalen College.....	164	82	92	21	104	137	40	37	38	140	136	84	91
,,	Kettering	216	117	108	28	77	216	44	37	54	151	169	126	111
IV.	Shoeburyness	194	121	71	62	156	110	39	19	69	124	170	120	105
,,	Bury St. Edmunds, Westley....	214	154	129	55	80	165	15	33	48	170	153	117	107
,,	Norwich, Brundall	236	173	131	42	253	106	20	57	49	106	157	175	118
V.	Cerne Abbas, Melbury House ..	218	128	51	49	112	97	47	39	36	172	93	44	95
,,	Sidmouth, Sidmount	174	123	65	43	162	113	41	46	44	128	76	59	89
,,	Northam Vicarage	180	146	78	59	120	62	24	87	30	122	99	83	93
,,	Falmouth Observatory	155	181	60	57	206	68	50	52	33	90	89	92	94
,,	Altarnon	184	142	84	61	162	69	37	89	27	115	99	89	99
,,	East Harptree, Sherborne Res...	148	114	80	34	205	122	34	99	33	156	103	47	97
VI.	Stroud, Upfield	191	85	82	40	97	116	40	33	24	173	127	60	90
,,	Church Stretton, Woolstaston ..	148	117	70	59	79	87	23	83	33	137	113	77	88
,,	Coventry, Kingswood	153	133	78	23	111	136	35	38	36	157	106	86	92
VII.	Boston	153	159	129	36	72	120	15	106	38	158	133	129	102
,,	Mickleover Manor	198	173	113	37	89	61	19	40	54	179	133	152	102
VIII.	Chester, Nurseries	195	69	50	45	103	44	33	82	47	123	70	130	83
,,	Blackburn, Guide Reservoir....	158	113	82	100	176	47	57	76	33	169	120	98	101
IX.	Barnsley, Church Street	160	131	83	34	93	76	99	57	26	170	125	85	96
,,	Wetherby, Ribston Hall	209	126	83	33	147	40	60	110	23	155	165	109	104
,,	Arncliffe Vicarage	157	120	127	65	211	78	59	94	36	162	128	80	111
,,	Hull, Pearson Park	139	92	92	51	92	84	70	73	30	155	147	84	94
,,	Middlesbrough, Albert Park....	155	76	72	34	142	35	34	93	22	147	112	85	84
X.	Newcastle, Town Moor	123	66	59	88	253	92	50	109	25	158	125	145	108
,,	Borrowdale, Seathwaite	135	80	89	65	222	66	90	115	35	119	100	80	98
XI.	Cardiff, Ely	197	132	112	59	198	92	28	77	29	159	90	62	102
,,	Haverfordwest, High Street	143	110	98	43	193	93	45	167	31	156	78	93	105
,,	Aberystwyth, Gogerddan	188	137	130	77	168	99	59	96	37	121	66	117	105
,,	Cantreff Rectory	147	87	79	32	103	77	22	80	27	104	83	54	79

TABLE I.—*Monthly Rainfall in* 1906 : *the Average*, 1870–1899, *being taken as* 100—(*continued*).

Div.	Station.	Jan.	Feb.	Mar.	Apl.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
XI.	Llandudno	151	149	160	60	175	70	31	145	24	128	73	84	102
XII.	Auchencairn, Torr House	152	107	93	42	233	61	85	148	36	139	91	84	106
,,	Moffat, Ericstane	104	74	85	59	223	59	70	196	33	141	80	55	95
XIII.	Marchmont House	93	42	92	65	299	66	82	156	16	223	111	88	114
XIV.	Girvan, Pinmore	124	86	90	97	200	85	96	103	42	188	79	131	111
,,	Loch Thom	121	93	124	61	210	50	102	99	65	150	106	96	106
XV.	Falkirk, Kerse	145	63	156	62	212	69	87	136	70	147	116	75	113
,,	Islay, Eallabus	131	151	98	130	163	45	100	102	49	110	94	113	105
,,	Mull, Quinish	116	103	63	105	151	37	103	73	81	123	84	97	95
XVI.	Balquhidder, Stronvar	147	60	100	66	133	28	95	126	52	145	91	58	94
,,	Dundee, Eastern Necropolis	98	33	55	49	266	51	30	151	41	138	136	62	92
XVII.	Braemar	125	106	122	79	238	32	41	75	46	132	171	73	103
,,	Aberdeen, Cranford	68	104	91	70	244	35	84	111	28	196	125	123	108
,,	Keith	75	144	144	107	222	69	77	98	49	128	233	101	120
,,	Cawdor, Budgate	129	117	135	138	168	36	60	103	46	143	198	76	109
XVIII.	Invergarry	192	107	94	107	147	41	104	113	71	145	113	98	115
,,	Applecross Gardens	160	161	110	123	133	58	122	124	80	97	143	140	123
XIX.	Dunrobin Castle	110	243	98	120	223	25	118	127	77	73	266	95	131
,,	Watten	91	242	74	96	204	19	88	70	73	77	167	94	105
XX.	Cork, Queen's College	125	93	45	45	153	62	113	41	13	108	70	39	75
,,	Killarney	97	85	58	63	127	102	99	58	23	126	53	55	78
,,	Waterford, Brook Lodge	120	112	71	52	176	56	58	63	54	152	56	53	85
,,	Broadford, Hurdlestown	180	131	104	65	170	100	117	91	46	174	50	98	109
,,	Miltown Malbay	159	132	114	59	154	83	91	100	45	176	71	107	107
XXI.	Carlow, Browne's Hill	123	100	113	61	122	60	53	58	29	133	53	66	81
,,	Dublin, FitzWilliam Square	191	83	82	92	127	54	39	58	33	108	60	76	82
,,	Mullingar, Belvedere	140	116	78	79	160	81	67	65	45	172	71	85	95
XXII.	Ballinasloe	163	123	105	68	149	76	110	103	32	136	45	83	99
,,	Clifden, Kylemore House	141	100	61	92	121	80	101	74	49	119	67	66	89
,,	Collooney, Markree Observatory	164	148	124	131	138	76	61	110	54	105	71	125	107
XXIII	Seaforde	109	69	77	81	168	45	74	109	28	134	70	100	89
,,	Ballymena, Harryville	105	129	99	136	172	36	87	137	51	136	108	120	109
,,	Omagh, Edenfel	160	120	146	141	184	32	81	110	55	152	106	90	112
,,	Buncrana, Rockfort	180	139	123	132	150	38	48	127	30	59	102	130	101
	ENGLAND & WALES (36 Stations)	179	122	91	51	137	96	39	69	39	144	123	94	99
	SCOTLAND (18 ,,)	121	113	101	88	204	48	86	117	53	139	134	92	108
	IRELAND (15 ,,)	144	112	93	86	151	65	80	87	39	133	70	86	95
	BRITISH ISLES (69 ,,)	156	117	94	68	158	77	60	86	43	140	114	92	100

the 49 years' record at Camden Square there is only one wetter January, 4·74 in. having fallen in January, 1877. As a whole, Scotland had an excess of 21 per cent., Ireland of 44 per cent., and England of 79 per cent. of the average for the month. A map published in *Symons's Meteorological Magazine* for February, 1906 (Vol. **41**, p. 4), shows that the isohyetal line of 7 inches surrounded Wales, and also encircled a large district in the south of England from Cornwall to Sussex. The following are amongst the heaviest falls reported in the south-eastern counties, the heavy falls in Cornwall and Devon being omitted as less remarkable by reason of the comparatively high average rainfall of those parts of the country.

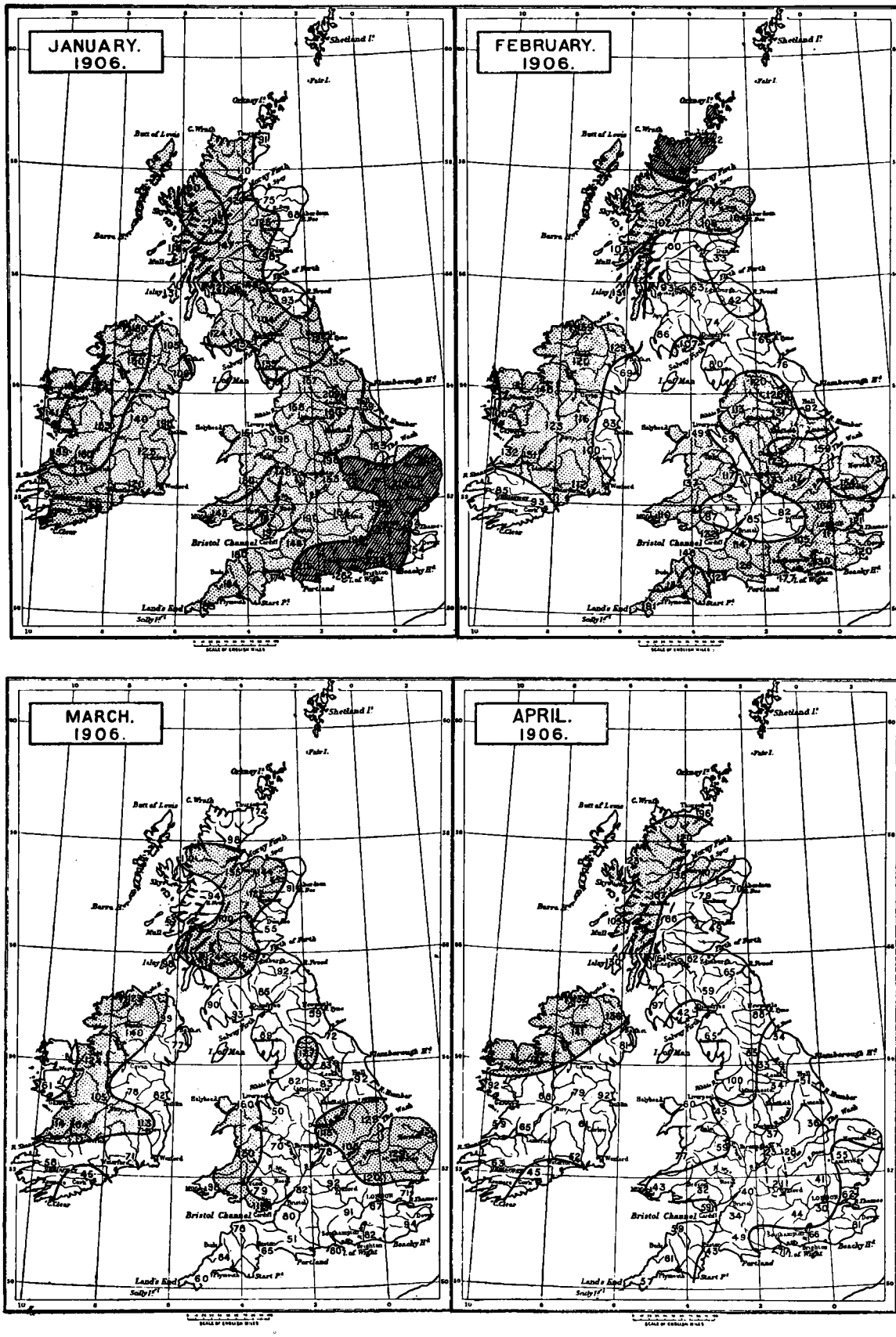
Heavy Rainfall in January, 1906.

Div.		ins.	Div.		ins.
II.	Chichester (Chilgrove) ...	9·77	II.	Lyndhurst (Cuffnells).....	8·90
,,	Horndean (Blendworth Ldg)	9·68	V.	Bere Regis (Bloxworth Ho.)	8·81
,,	Chichester (West Dean Park)	9·64	,,	Puddletown	8·79
,,	Ryde (Pier Street)	9·19	,,	Maiden Newton (Cattistock Ldg.)	8·79
V.	Bere Regis (Longthorns)...	9·15	II.	Ringwood (Burley Park)...	8·78
,,	Compton [Petersfield].....	9·13	,,	East Meon (Westbury Ho.)	8·74
,,	Midhurst (Linch Farm) ...	9·13	,,	Fordingbridge (Cadenham Gng.)	8·72
,,	Petersfield (Ditcham Park)	9·09	,,	Christchurch (Heron Crt.)	8·72
,,	Hambledon (Rosecroft) ...	9·04	,,	Petersfield (Fairley)..	8·70
,,	Broadwindsor (Blackdown Ho)	8·96	,,	Chichester (Watergate) ...	8·65
,,	Dorchester (Wollaston House)	8·95	,,	Totton (Uplands)	8·55
,,	Winterbourne Steepleton..	8·91	,,	Winterbourne Herringstone	8·53

FEBRUARY.

A rather wet month on the whole, the general excess for the British Isles being 17 per cent. England and Wales were somewhat wetter than Scotland and Ireland. The extreme south-west and the extreme east of Ireland had less than the average rainfall, and the greatest excess in the Table for that island was less than 50 per cent. The north of England and the south and centre of Scotland had less than the average over an area extending from the Yorkshire Ouse nearly to Mull and Aberdeen ; and the greater part of the valleys of the Severn and the upper Thames were also below the average. In England the wettest areas, with falls more than 50 per cent. above the average, were in Devon and Cornwall, and in East Anglia and Lincoln ; while in Scotland the wettest part was in the extreme north, where alone the rainfall was more than twice the average amount.

MAPS OF MONTHLY RAINFALL, 1906.



The figures express the relation of the Rainfall to the average of the month during 1870-99, which is taken as 100. Unshaded areas are below the average.

Face p. [148]

MARCH.

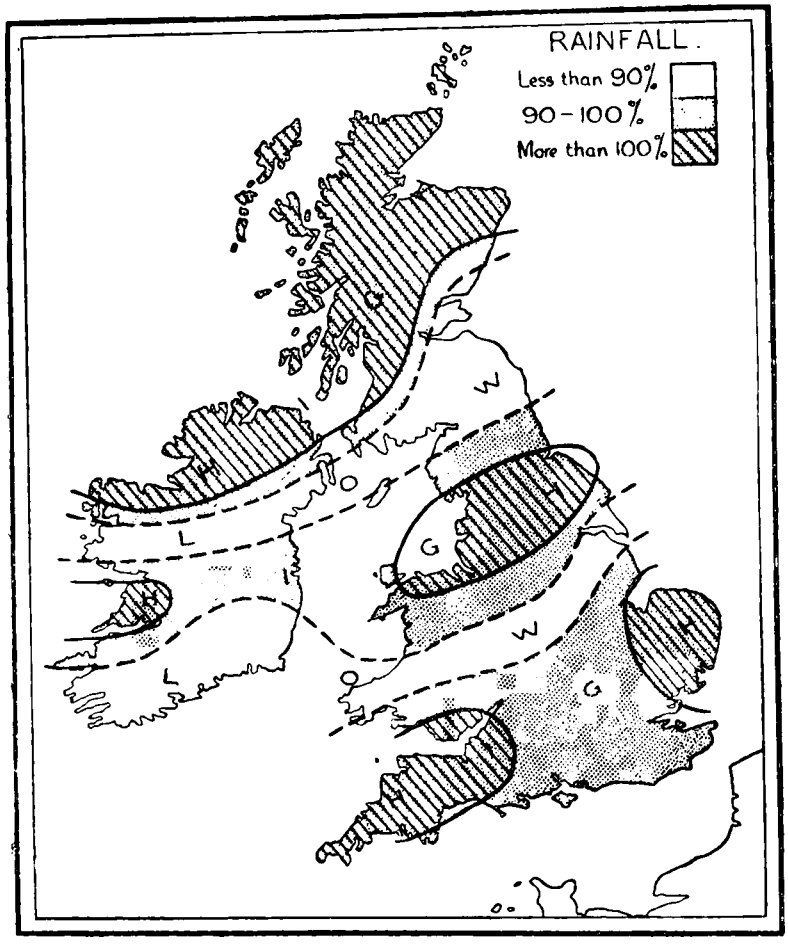
This month had the distinction of being nearest to the average in amount of rainfall of all the months of 1906. In Scotland there was an excess of 1 per cent., in England and Wales a deficiency of 9 per cent., in Ireland a deficiency of 7 per cent., and for the British Isles as a whole a deficiency of 6 per cent. The distribution of rainfall was somewhat peculiar, the country as a whole having less than the average; but the middle of Ireland and of Scotland, the extreme west of Wales, and the whole of East Anglia had decidedly more than the average, the distribution being an exaggeration of that which prevailed in February.

THE WINTER SIX MONTHS.

It is useful to look across the boundary of the year and consider the character of the six months including late autumn, winter and early spring. The following Table gives the total rainfall for the six months, October, 1905—March, 1906, together with the average rainfall for the winter six months, and the ratio which the actual fall bears to the average expressed as 100. The figures are given for 52 stations uniformly distributed over the country, and they are expressed somewhat diagrammatically in the accompanying map. In the map, those parts of the country which had less than 90 per cent. of the average rainfall for the winter half-year are left white, and those which had more than the average rainfall are shaded more darkly than the rest. The country is seen to be divided into a series of alternate wet and dry bands running from north-east to south-west. The first wet band covers northern Scotland and north-western Ireland, the succeeding dry band occupies the south of Scotland, the north of England and the middle of Ireland. The second wet band runs through Yorkshire, Lancashire, Cheshire, Wales, and across Ireland; the succeeding dry band runs from the Humber across the Midlands to South Wales and the south of Ireland, while the third wet band occupies the whole of England south of a line joining the Wash and the Bristol Channel. This alternate succession of stretches of country which are alternately wet and dry, when averaged over a considerable period of time has been observed too frequently to allow us to believe that it is accidental. A similar condition prevailed for the year 1905, as indicated in the diagrammatic map on p. [163] of *British Rainfall 1905*, and the year 1906 also shows signs of banding in the same direction.

Looking at the usual divisions of the country the significance of the alternate relatively wet and dry stripes is largely lost, especially in England, which includes two of the three wet bands, and we find that the percentage of the average winter half-year's rain which fell in England and Wales was 95, that in Scotland 101, and in

SIX MONTHS OCT. 1905 — MAR. 1906
PER CENT OF AVERAGE.



Ireland 93; while for the British Isles as a whole 96 per cent. of the average was received. The winter half-year contained a very dry October and December, a moderately wet November and February, a decidedly wet January, and a somewhat dry March. The general result was a winter fall not much below the average.

Six Months' Winter Rainfall: October, 1905—March, 1906.

Div.	STATIONS.	Average, 1870-1899.	Rainfall, Oct., 1905, to Mar., 1906.	Per cent. of Average.	Div.	STATIONS.	Average, 1870-1899.	Rainfall, Oct., 1905, to Mar., 1906.	Per cent. of Average.
		in.	in.				in.	in.	
I.	Camden Square	12·55	12·21	97	XI.	Llandudno	16·92	18·34	108
II.	Tenterden	15·66	14·48	92	XII.	Cargen	24·74	19·43	78
,,	West Dean	16·26	16·47	101	,,	Lilliesleaf	17·12	12·55	73
,,	Hartley Wintney	14·88	13·31	89	XIV.	Colmonell	26·03	25·73	99
III.	Hitchin	12·21	11·67	96	,,	Glasgow	18·48	20·50	111
,,	Winslow	13·19	12·35	94	XV.	Tighnabruaich	33·05	36·05	109
IV.	Bury St. Edmunds	12·16	13·09	108	,,	Mull, Quinish	33·58	31·52	94
,,	Brundall	12·63	15·92	126	XVI.	Dundee	14·32	11·30	79
V.	WinterbourneSteepleton	22·70	24·86	109	XVII.	Braemar	19·17	22·20	116
,,	Torquay	19·77	19·72	100	,,	Aberdeen	17·22	17·81	104
,,	Polapit Tamar	22·77	24·66	108	,,	Cawdor	14·19	16·99	120
,,	Bath	15·62	13·50	86	XVIII.	Invergarry	34·54	34·60	100
VI.	Stroud	15·02	14·42	96	,,	Bendamph	50·71	56·91	112
,,	Woolstaston	17·18	14·27	83	XIX.	Dunrobin	17·45	20·63	118
,,	Bromsgrove	11·67	9·77	84	XX.	Killarney	34·58	27·26	79
VII.	Boston	11·05	11·17	101	,,	Waterford	22·13	17·34	78
,,	Worksop	11·76	10·31	88	,,	Broadford	17·02	17·22	101
,,	Derby	12·43	11·69	94	XXI.	Carlow	18·10	15·39	85
VIII.	Bolton	21·75	25·30	116	,,	Dublin	14·06	13·30	95
IX.	Wetherby	12·97	13·87	107	XXII.	Ballinasloe	19·10	17·76	93
,,	Arncliffe	35·06	38·21	109	,,	Clifden	44·78	38·28	85
,,	Hull	13·52	11·22	83	,,	Crossmolina	29·44	32·50	110
X.	Newcastle	13·87	12·73	92	XXIII.	Seaforde	20·56	17·51	85
,,	Seathwaite	78·82	75·59	96	,,	Londonderry	22·30	23·45	105
XI.	Cardiff	23·27	23·98	103	,,	Omagh	19·32	21·29	110
,,	Haverfordwest	28·12	25·05	89					
,,	Aberystwyth	24·58	23·96	97					

APRIL.

This was a dry month, especially in England. The average rainfall was exceeded only in the north of Scotland and the north-west of Ireland, and a small area in the south, both of Scotland and Ireland, had less than half the average fall. The driest part of the country was the centre of England, where the rainfall was less than one-quarter of the average amount in an area stretching from Oxford to Birmingham. Outside this dry centre the rainfall increased gradually in all directions, and there were four isolated tracts of country with more than half the average fall, one in the extreme north of England, one in north-western Wales, one in the Cornwall-Devon peninsula, and the fourth along the south and east coasts, from Hampshire to Suffolk. The general rainfall for England and Wales amounted to only 51 per cent. of the average, that for Scotland was 88 per cent., and for Ireland 86.

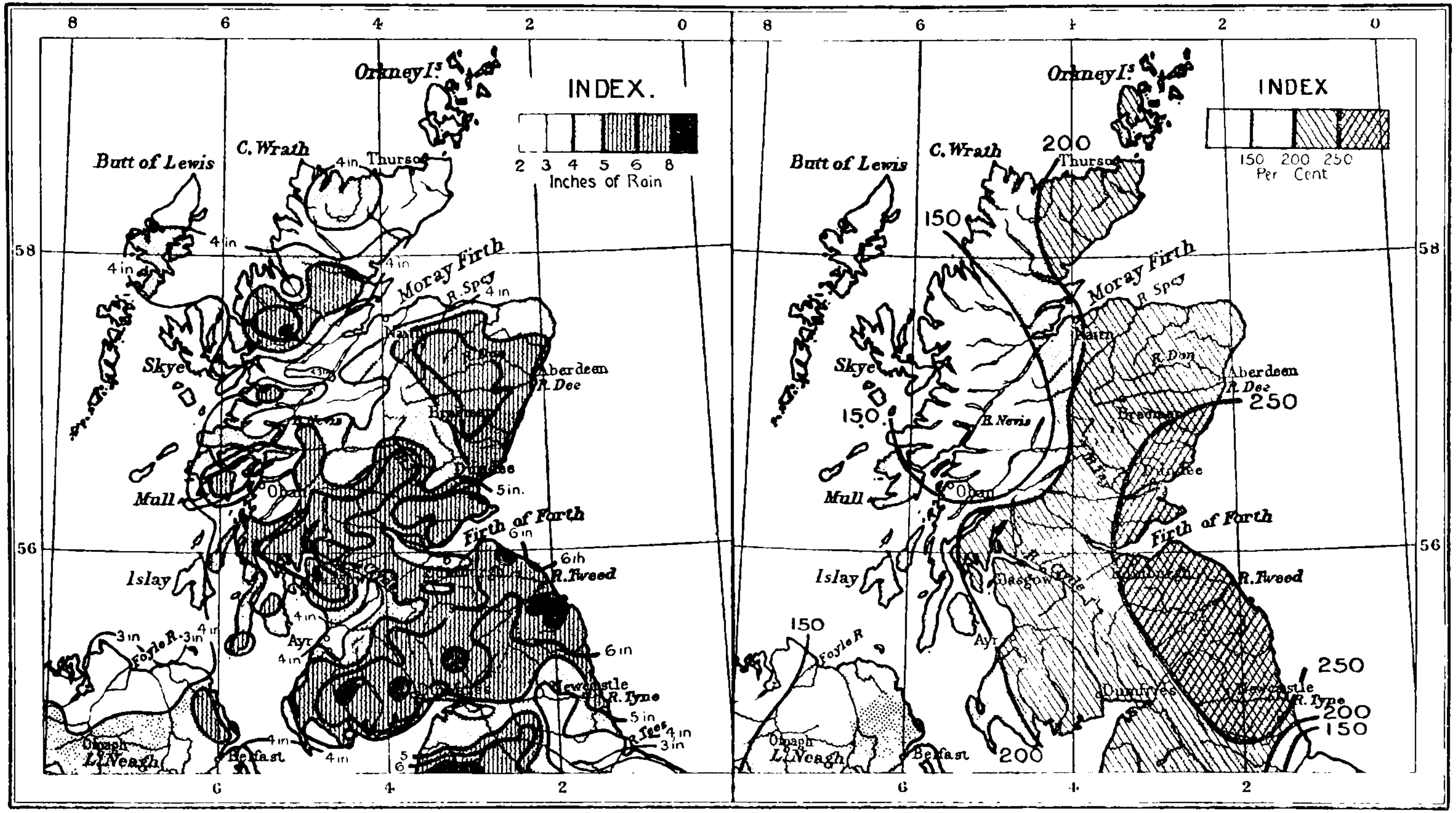
MAY.

May was relatively the wettest month of the year for the British Isles, a circumstance mainly due to the excessively heavy fall in Scotland, where the general rainfall was more than twice the average. In Ireland the excess was 51 per cent., but no part seems to have had twice its normal rainfall, while in England the excess was 37 per cent., with the remarkable range of an excess of 153 per cent. at Newcastle, and at Brundall, near Norwich, and a deficiency of 47 per cent. at Hitchin. In Ireland the centre of the country was relatively the wettest, both the east and west coasts showing more moderate excesses.

In England and Wales the distribution of rainfall was somewhat remarkable. There was a large area extending inland from the Humber and the Wash as far as the Thames and Bristol, over which the rainfall was less than the average, and in some places very much less. This was surrounded on the south-east, south, west and north, by country in which more than the average fell, and at three points heavy local rains raised the excess to a very high figure. Thus in the south of Cornwall, the north of Somerset, and the east of Norfolk, there was more than twice the average rainfall. In Norfolk this was due to a severe thunderstorm on the 13th, when a very small area received more than the month's average in a few hours.

The rainfall in the north of England and Scotland was so remarkable that we have gone into the matter in some detail, and present

RAINFALL OF MAY 1906 IN SCOTLAND.



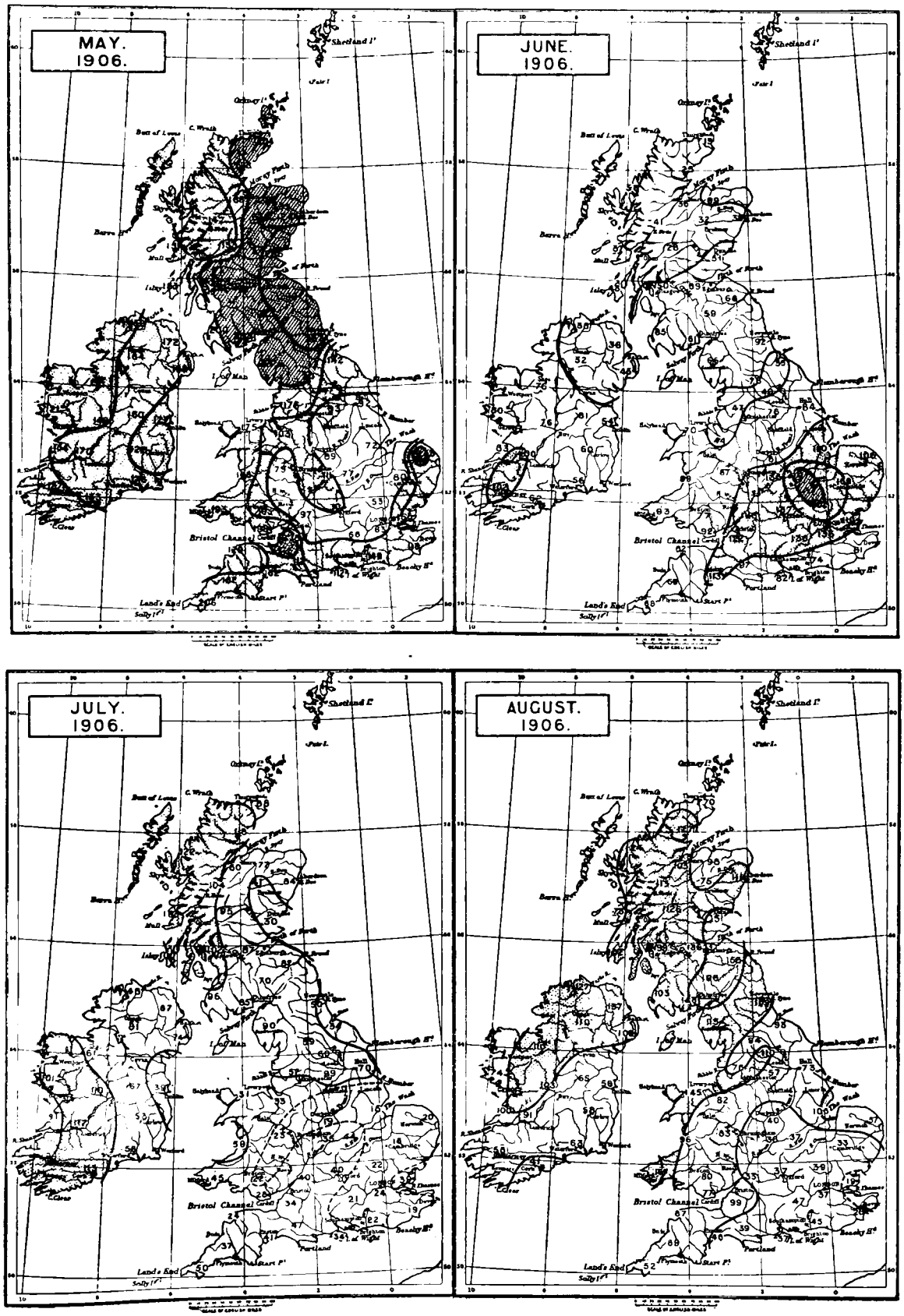
INCHES

PER CENT OF AVERAGE

two maps, one showing the distribution of the actual amount of rainfall in inches, as determined by the use of all the data to which we have access, the other an enlargement of the May difference from the average map based on the stations from which averages for 30 years are available. This should be compared with the map on p. [112] of heavy falls on May 19th. The rainfall of Scotland in May has been discussed in detail by Mr. A. Watt, in the *Journal* of the Scottish Meteorological Society, and our independent study of the subject confirms his general conclusions. The map of actual rainfall is tinted so as to call attention prominently to the areas with least rain—all with less than 4 inches being left white; and to those with most rain—all with more than eight inches being solid black. The Southern Uplands had most rain, practically the whole breadth of the country receiving more than 6 inches, and five separate areas having more than 8 inches. The driest parts of the country were in the north and west, a broad strip along the Great Glen, Caithness and part of Sutherland, and the Outer Hebrides, all having less than 4 inches, and a few stations reporting less than 3 inches. When the area with more than 5 inches is examined, it is seen that there was a tendency for the interior of the country to have less rain than the districts nearer to the coast. The exact run of the lines cannot be trusted to the same degree as that of similar lines on a rainfall map of England, on account of the sparse and irregular distribution of rain gauges in the Highlands.

The second special map shows the relation of the rainfall to the average, and shows how much heavier the rain was relatively in the south and east than it was in the west and north. It will be observed that the most interesting line, that representing 200 per cent., or twice the average, runs nearly from south to north; and while the excess in the west was as little as 33 per cent. at Applecross, in the south and east it was as much as 199 at Marchmont House and 166 at Dundee. There is no doubt that, as pointed out by Mr. Watt, some parts of the south of Scotland had more than three times their average rainfall during the month of May. The fall in a number of cases was unprecedently great; the May rainfall at Edinburgh was not equalled in any of the records which were discussed by Mr. Mossman, going back as far as 1770. A remarkable feature of the month was the absence of any extremely wet day, except in the south and east, where the 19th brought the heavy falls, which are discussed in a preceding section. The following are the heaviest falls for the month which we have noticed :—

MAPS OF MONTHLY RAINFALL, 1906.



The figures express the relation of the Rainfall to the average of the month during 1870-99, which is taken as 100. Unshaded areas are below the average

Face p. [154]

Stations in Scotland with more than 8 *inches of rain in May*, 1906.

Div.		in.	Div.		in.
XV.	Ben Lomond	13·10	XIV.	Dalry (Camphill Resvr.)	8·60
XVIII.	Glencarron (Glenuaig).	11·30	XII.	Irongray (Drum Park)...	8·50
XIV.	Shaws W.W. (Duchall Moor)	9·20	XV.	Mull (Kinlochspelvie)...	8·39
,,	,, (Creuch Hill)	9·20	XIII.	Gameshope Farm (Edin. W.W.)	8·37
XIII.	Prestonkirk (Beil).....	8·89	XIV.	Kilmalcolm Waterworks	8·33
XV.	Arran (Pladda)	8·72	XIII.	Whittingehame Gardens	8·23
XII.	Glenhead of Trool.....	8·70	,,	Kirkpatrick Durham (Glenlair)	8·02
,,	Langholm (Ewes, Burnfoot)	8·65	XIV.	Shaws W. W. (Green Water).	8·00
XV.	Islay (McArthurshead)	8·65			

JUNE.

This was a dry month; for Scotland the driest in the year, with only 48 per cent. of the average, for Ireland the driest except September, while for England and Wales, thanks to the heavy cyclonic rain of the 28th—29th, it came very little short of the average. The only part of the British Isles in which the rainfall of June surpassed, or even reached the average, was the tract over which more than 1 inch fell on the 28th. At two stations more than twice the average was reported; at Hitchin this was due to the cyclonic storm of the 28th, and at Kettering to a local thunderstorm on the 16th. A dry belt, with less than 50 per cent. of the average, crossed the country from the Tees to the Mersey. The north of England and the Southern Uplands of Scotland had a little more rain; but north of a line drawn from the Clyde to Montrose, only one of the stations quoted had more than 50 per cent., and in the extreme north the rainfall was less than 25 per cent. of the average. The contrast with the previous month was remarkable, as the following selection of stations, which were very dry in June, shows—

	Station.	May Rainfall. in.	June Rainfall. in.	May greater than June. times.
XIX.	Watten	3·75	·33	11·6
,,	Lynturk Manse	6·55	·60	10·9
,,	Laudale	4·96	·52	9·5
,,	Ardross Castle	5·78	·62	9·3
,,	Dunrobin Castle	4·50	·53	8·5
,,	Blair Atholl.....	4·74	·58	8·2

JULY.

July shared with September the distinction of being the driest month in the year for England and Wales, which, as a whole, had only 39 per cent. of the average rainfall. The driest part was the Fen Country round the Wash, where some stations had as little as

15 per cent. of the average rainfall; and less than a quarter of the average prevailed over the greater part of the Trent valley, and beyond it south-westward into Wales, and over East Anglia, the greater part of the lower Thames valley, and the east of the south coast. Within these areas the total rainfall fell short of half-an-inch at a great number of stations. The rainfall approached the normal in the west and north, and the west of Scotland and of Ireland showed a slight excess over the average.

AUGUST.

This was again a dry month on the whole, though less so than July. The driest part was in the south-east of England, where a large area had less than 50 per cent. of the average rainfall; but in the west and north it was normal. Almost the whole of Scotland was wet, the wettest part of the British Isles being in the Southern Uplands, where some stations, not quoted in the Table, had more than twice their average rainfall. In Ireland there was an excess of rainfall in the north-west, and a steady diminution southward and eastward. At Cork less than half the average amount fell.

SEPTEMBER.

The driest month of the year for the British Isles as a whole, and for all parts of it except Scotland, where alone the general rainfall reached one-half of the average. The low rainfall was exceptionally uniformly distributed, no station amongst the 69 reached the average; and this was the only month in the year in which some part of the British Isles did not register an excess. The wettest station had only 81 per cent. of the average fall, the driest 13 per cent. The western half of Scotland had more than half the average rainfall, and so had a small patch between Derby and Leicester, and a larger triangle in the south-east of England round the Thames estuary. In Ireland, a small patch in the south-east and a larger one in the north had also a little more than 50 per cent. The driest parts of the British Isles were in the north-east of England and south-east of Scotland, where less than one quarter of the average fell from Leeds to North Berwick, and in the south-west of Ireland, where there was also less than 25 per cent. over a large area. The general rainfall over England and Wales and Ireland was 39 per cent. of the average, and that of the British Isles as a whole 43 per cent.

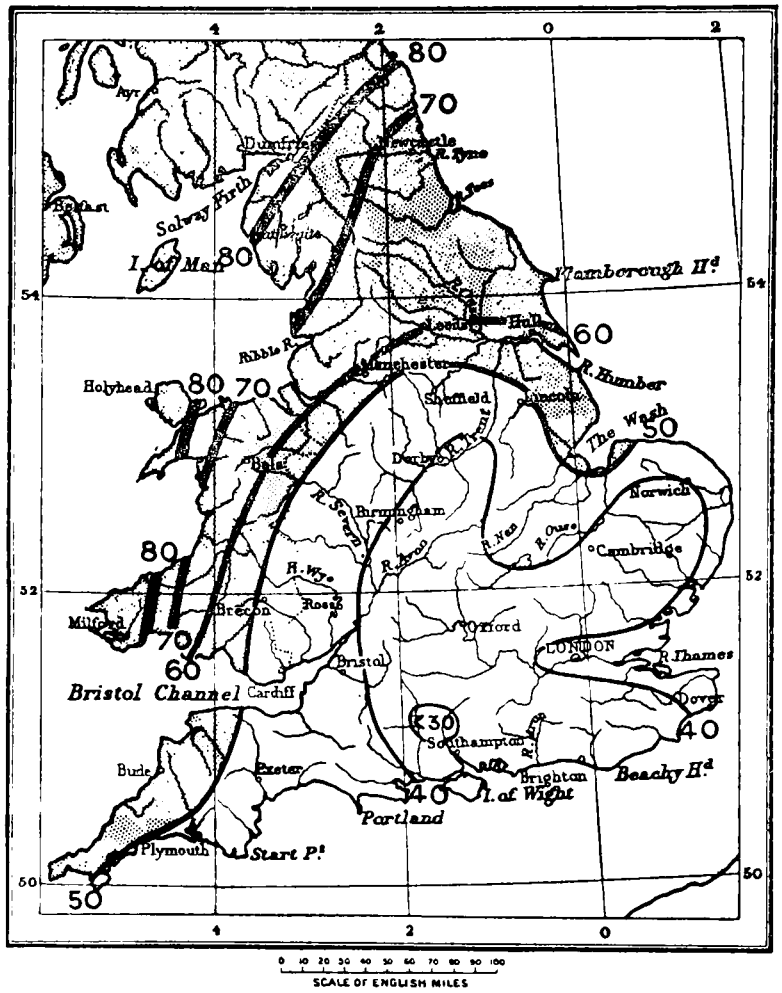
Rainfall of the Three Months, July—September, 1906, compared with the average.

Div.	STATIONS.	Average, 1870-1899	Rainfall, July-Sept., 1906.	Per cent. of Average.	Div.	STATIONS.	Average, 1870-1899.	Rainfall, July-Sept., 1906.	Per cent. of Average.
		in.	in.				in.	in.	
I.	Camden Square	7·11	3·23	45	VI.	Bromsgrove	7·16	2·71	38
II.	Tenterden	7·25	2·74	38	VII.	Boston	6·99	3·62	52
,,	West Dean	7·80	1·96	25	,,	Worksop	7·00	2·87	41
,,	Hartley Wintney	6·85	2·50	36	,,	Derby	7·37	2·43	33
III.	Hitchin	7·07	2·56	36	VIII.	Bolton	12·86	10·77	84
,,	Winslow (Addington)	7·68	2·70	35	IX.	Wetherby	7·73	5·00	65
IV.	Bury St. Edmunds	7·80	2·45	31	,,	Arncliffe	15·53	9·85	63
,,	Brundall	7·46	3·03	41	,,	Hull	7·71	4·52	59
V.	Winterbourne Steepleton	9·36	3·90	42	X.	Newcastle	8·41	5·46	65
,,	Torquay	8·69	3·64	42	,,	Seathwaite	33·36	25·74	77
,,	Polapit Tamar	9·75	5·59	57	XI.	Cardiff	12·12	5·64	47
,,	Bath	8·68	3·73	43	,,	Haverfordwest	11·95	9·71	81
VI.	Stroud	8·45	2·75	33	,,	Aberystwyth	13·07	8·47	65
,,	Woolstaston	8·64	4·21	49	,,	Llandudno	8·39	5·67	68

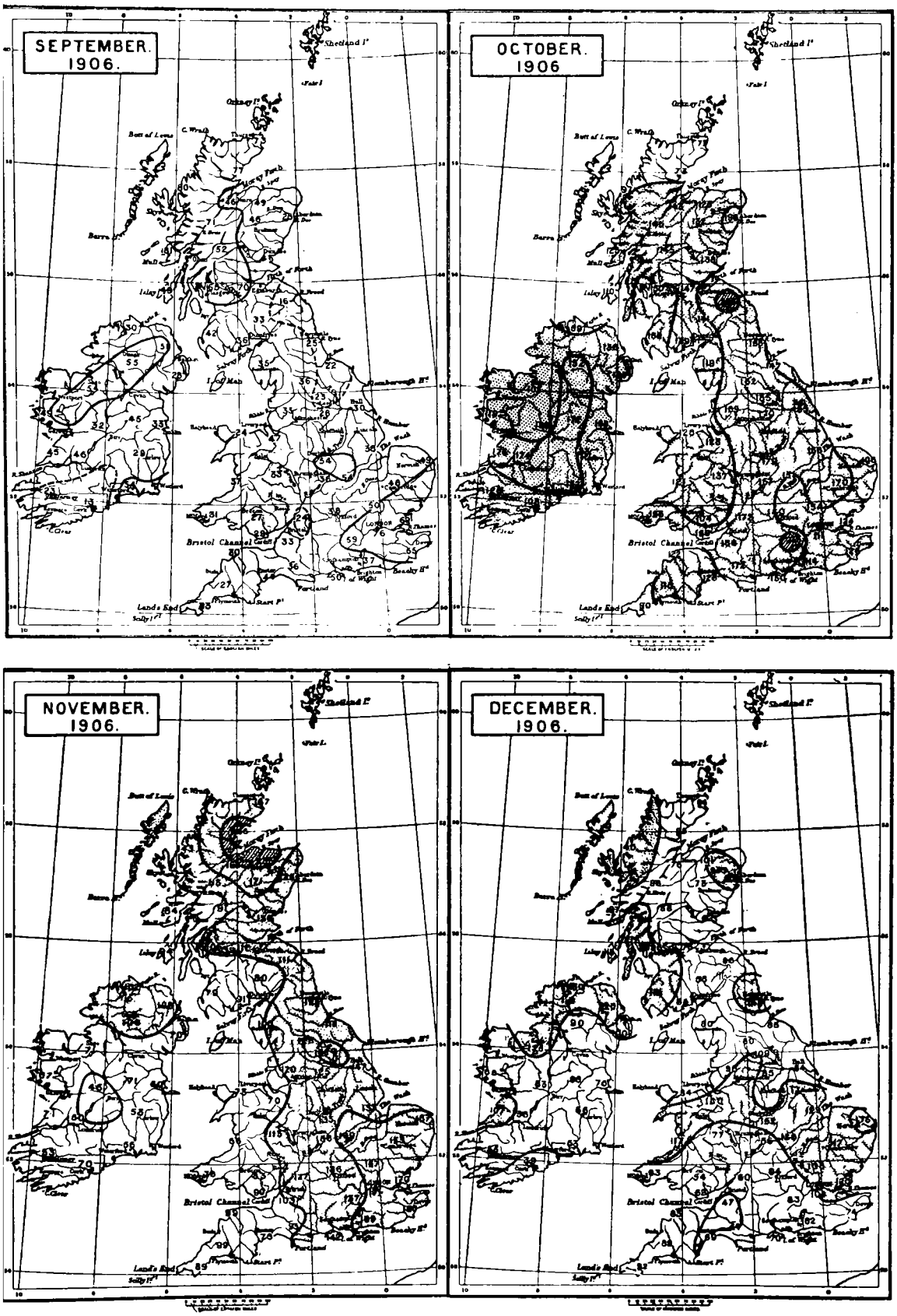
THE THREE MONTHS JULY—SEPTEMBER.

The three dry months had collectively a general rainfall of 63 per cent. over the British Isles, but for England the general rainfall was only 50 per cent.; and it is rare indeed to find the rainfall of a quarter of a year less than half the average. At one station, West Dean, the amount was only one quarter of the average, and there the total rainfall for the three months was less than 2 inches. The accompanying table gives the total and average rainfall for the three months at the 28 stations used for this purpose in England and Wales, and the little map shows by the nearly concentric lines bounding areas with less than 30, 40, 50, 60 and 70 per cent. respectively how the dryness—we cannot apply the technical word drought—centred in the Midlands and the south of England.

JULY–SEPT. 1906, AS PERCENTAGE OF AVERAGE.



MAPS OF MONTHLY RAINFALL, 1906.



The figures express the relation of the Rainfall to the average of the month during 1870-99, which is taken as 100. Unshaded areas are below the average.

Face p. [158]

Particulars of the remarkable weather of the three months, and especially of the dryness and heat of the end of August and beginning of September, will be found in a paper by Mr. Marriott, in the *Quarterly Journal* of the Royal Meteorological Society, vol. **33**, p. 5.

OCTOBER.

The dry weather of the preceding three months gave place in October to a moderate excess of rainfall, the general fall of the British Isles being 40 per cent. above the average, Ireland having the least excess, 33 per cent., and England and Wales the greatest, 44 per cent. Only the northern extremities of Scotland and of Ireland, and the south-western tip of England, had less than the average fall, while the inland parts of both Great Britain and Ireland had an excess of more than 50 per cent., and two far-separated stations recorded more than double their average rainfall.

NOVEMBER.

This month was on the whole dry in Ireland, where the middle of the country had less than 50 per cent. of the average, and only the extreme north had a rainfall very slightly exceeding the normal amount. The west of England, Wales and Scotland were dry, but did not fall far short of the average, while the east of Great Britain was wet, and in some parts very wet. Round the Moray Firth the rainfall was more than twice the average, and in some parts more than two and a half times, while at the opposite end of the island, on the shores of the Channel, some stations in Sussex and Kent also recorded nearly twice the normal amount.

DECEMBER.

The precipitation in December was a little below the average, the general deficiency in England and Wales being 6 per cent, in Scotland 8 per cent., in Ireland as much as 14 per cent., and in the British Isles as a whole 8 per cent. In Ireland the rainfall increased steadily from a deficiency of more than 50 per cent in the south to an excess of more than 30 per cent. in the north. In England and Wales a broad belt of rainfall above the average stretched from North Wales to Lincolnshire and East Anglia, and in the northern parts of Great Britain a moderate excess appeared at isolated places on the west and east coasts. The driest part of the British Isles was in Somerset, where a tract of country had less than 50 per cent. of its average fall.

MONTHLY RAINFALL AT 230 STATIONS IN THE BRITISH ISLES DURING 1906.

ENGLAND AND WALES.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
I.	London	St. Pancras (Camden Square)	4·02	1·89	1·08	·51	1·09	2·89	·61	·87	1·75	3·15	4·19	2·21	24·26
II.	Surrey	Guildford (Epsom Road)	4·77	2·25	1·54	·52	1·72	1·73	·47	1·77	1·74	4·77	5·06	2·30	28·64
,,	Kent, West	Tenterden	3·64	2·22	1·77	1·44	2·03	1·19	·43	·61	1·70	4·52	5·80	2·02	27·37
,,	,, ,,	Sevenoaks (Rectory)	6·22	2·60	1·65	·92	1·40	2·53	·58	·64	1·75	5·53	6·10	2·52	32·44
,,	,, East	Hythe (Hillcrest Road)	3·09	2·23	2·14	1·40	2·02	1·99	·64	·71	1·72	3·39	6·20	2·70	28·23
,,	,, ,,	Ospringe (Lorenden)	2·96	2·06	1·42	1·30	2·08	2·75	·97	·35	1·82	3·70	5·62	1·48	26·51
,,	Sussex, West	Arundel (Patching)	6·50	2·95	1·54	1·03	2·50	1·40	·58	1·10	1·06	4·74	7·38	2·36	33·14
,,	,, East	Uckfield (Sheffield Park)	4·69	2·94	1·67	·78	2·16	2·26	·91	1·29	1·17	3·68	6·43	2·11	30·09
,,	Hants, I. of W.	Totland Bay (Aston House)	6·80	3·13	1·44	1·41	2·48	1·33	·78	·75	·95	5·87	4·21	1·88	31·03
,,	,,	Bps. Waltham (Swanmore Ho.)	8·17	3·33	1·44	·68	2·83	2·08	·63	1·28	1·39	6·06	4·59	2·36	34·84
,,	,,	Basingstoke (Sherborne S.J.)	4·92	2·30	1·67	·80	1·24	2·69	·54	1·10	1·48	7·10	4·32	2·18	30·34
,,	Berks	Newbury (Welford Park)	5·55	2·55	2·02	1·02	1·79	3·03	·68	·90	1·05	5·48	5·20	2·59	31·86
III.	Herts	Hertford (Bayfordbury)	3·70	2·16	1·45	·35	1·11	3·12	·98	·71	1·46	4·29	3·73	2·75	25·81
,,	,,	Roystón (Therfield Rectory)	2·93	1·77	1·87	1·10	1·24	3·47	·83	1·09	1·63	3·75	4·63	2·38	26·69
,,	Bucks	Slough (Upton)	3·76	1·82	1·37	·50	3·12	2·77	·33	·99	1·25	4·39	3·06	2·77	26·13
,,	,,	Greenlands [Henley-on-Thames]	4·17	2·20	1·28	·67	1·99	2·30	·40	1·00	·96	4·98	3·06	2·77	25·78
,,	,,	Buckingham (Adstock)	3·75	1·74	1·69	·81	1·40	3·54	·61	1·06	·98	4·11	3·99	2·39	26·07
,,	Oxford	Oxford (Magdalen College)	3·16	1·35	1·27	·34	1·78	2·84	1·00	·86	·85	3·92	3·20	1·67	22·24
,,	Northampton	Wellingborough (Swanspool)	3·64	1·88	1·79	·75	1·77	4·47	1·04	1·41	·86	3·99	3·89	2·71	28·20
,,	Bedford	Shillington	2·94	1·64	1·78	·87	1·19	4·11	·64	1·05	1·14	3·59	3·91	2·21	25·07
,,	Cambridge	Stretham Engine	2·45	1·79	1·17	·96	1·04	4·38	1·23	·90	·70	2·93	3·08	1·70	22·33
,,	,,	Wisbech (Bank House)	3·12	1·98	1·66	1·05	1·20	3·23	·31	2·26	·90	3·75	2·90	2·02	24·38
IV.	Essex	Loughton (High Beech)	3·79	2·14	1·12	·43	1·43	2·44	1·51	·69	1·76	3·58	4·09	2·26	25·24
,,	,,	Chelmsford (High Street)	3·41	2·17	1·49	·99	1·32	1·77	·95	·57	1·51	4·10	3·90	2·01	24·19
,,	,,	Braintree (Bocking, Fennes)	3·16	1·92	1·62	1·03	1·33	2·11	·68	·86	1·59	3·87	3·70	2·04	23·91
,,	Suffolk	Ipswich (Woolverstone Pk.)	3·47	2·05	1·51	·69	1·17	2·66	·32	·72	1·71	3·10	3·82	2·24	23·46
,,	,,	Haverhill (Great Thurlow)	2·48	1·66	1·74	·66	1·02	3·06	·75	1·33	1·37	4·03	3·72	2·71	24·53
,,	,,	Aldborough (Aldringham Ho.)	3·52	1·83	1·61	·52	1·74	2·33	·18	·47	1·94	2·40	3·34	1·23	21·11
,,	Norfolk	Geldeston [Beccles]	3·66	2·13	2·05	·84	2·75	1·93	·47	1·29	1·36	3·18	3·96	2·47	26·09
,,	,,	Swaffham	3·65	2·35	1·74	·72	·83	2·82	·67	2·10	1·31	4·58	3·44	2·21	26·42
,,	,,	Holt	3·31	2·05	1·47	·56	2·45	2·24	·55	1·78	1·12	2·87	4·58	2·12	25·10

ENGLAND—(*continued.*)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August	Sept.	Oct.	Nov.	Dec.	Total.
V.	Wilts	Alderbury	5·65	2·78	·63	·82	2·33	2·14	·39	1·14	·76	6·85	4·48	1·80	29·77
,,	,,	Trowbridge (W. W. Biss)	5·82	3·25	1·69	1·53	2·26	2·52	1·01	1·86	·71	7·02	3·78	2·09	33·54
,,	,,	Marlborough (Mildenhall)	4·77	2·58	1·67	·86	2·09	2·85	1·09	1·09	·92	5·76	4·20	2·10	29·98
,,	Dorset	Beaminster Vicarage	7·79	4·00	1·65	1·00	2·65	1·23	1·33	1·09	1·47	6·43	4·51	2·08	35·23
,,	,,	Wimborne (Horton Vic.)	7·61	3·92	·94	1·17	2·99	1·71	·87	·85	·81	7·13	4·35	2·12	34·47
,,	,,	Buckhorn Weston	4·39	2·38	1·07	·54	4·16	1·73	1·11	1·34	·87	4·58	3·01	1·67	26·85
,,	Devon, South	Buckfastleigh (Bossell Pk.)	12·86	6·59	2·75	1·01	4·10	4·09	·99	3·44	·99	8·55	5·25	3·83	54·45
,,	,, ,,	Dartmoor (Lowery)	9·33	5·69	1·83	1·63	4·87	1·98	1·81	4·28	1·57	8·04	4·42	4·68	50·13
,,	,, ,,	Cullompton	6·90	3·56	2·27	·90	3·08	1·93	·77	2·07	1·22	4·71	3·87	2·54	33·82
,,	,, North	Okehampton (Oaklands)	7·72	5·43	2·79	1·67	2·42	1·54	1·27	2·74	1·35	6·19	4·55	4·44	42·11
,,	,, ,,	South Molton (Castle Hill Sch)	7·49	4·77	3·27	1·84	3·81	1·97	1·75	4·29	1·28	5·91	4·85	4·70	45·93
,,	Cornwall	Penzance (Morrab Garden)	5·88	6·10	1·79	1·55	5·63	2·07	1·59	1·57	1·18	4·71	5·41	5·49	42·97
,,	,,	St. Agnes	5·21	4·52	1·14	1·50	3·61	1·68	1·95	1·72	1·25	4·92	3·85	4·26	35·61
,,	,,	Stratton (Poughill)	5·89	4·96	2·06	1·67	4·40	1·76	2·03	2·14	1·09	5·86	4·57	4·50	40·93
,,	Somerset, South	Crewkerne (Bincombe Ho.)	6·01	3·23	1·42	·94	2·11	2·03	1·19	·74	·82	6·72	4·02	1·63	30·86
,,	,, ,,	Holford (Woodlands House)	5·35	2·51	1·93	1·39	3·77	1·92	·83	2·39	·88	4·40	2·75	1·73	29·85
,,	,, North	Street	4·69	2·22	1·83	1·18	4·08	2·50	1·16	2·69	·65	4·73	2·51	2·06	30·30
VI.	Gloucester, West.	Clifton (Pembroke Road)	4·95	2·53	2·81	1·36	2·56	2·74	1·35	2·63	·82	5·88	2·90	1·53	32·06
,,	,, ,,	Stroud (Upfield)	4·71	1·81	1·53	·81	2·03	2·59	1·16	·94	·65	5·35	3·79	1·50	26·87
,,	,, East.	Fairford (Hatherop Castle)	4·47	2·19	1·83	·82	2·08	3·15	1·61	·96	·84	5·53	3·55	2·57	29·60
,,	,, ,,	Moreton-in-Marsh (Longboro')	4·77	2·25	1·52	·75	1·82	3·46	1·12	1·30	1·23	5·20	3·51	2·42	29·35
,,	Hereford	Ross (The Graig)	4·08	1·23	1·10	·93	1·77	3·09	·50	·91	·68	4·19	2·42	1·31	22·21
,,	,,	Leominster (Farm)	4·00	1·49	1·15	·73	1·79	2·36	·54	1·72	·70	4·65	3·10	1·96	24·19
,,	Shropshire	Ch. Stretton (Wolstaston)	4·16	2·65	1·40	1·27	2·08	2·14	·61	2·69	·91	5·46	3·60	2·25	29·22
,,	,,	Much Wenlock (Willey Pk.)	3·57	1·80	1·22	1·32	2·48	2·25	·75	1·94	1·19	4·94	2·69	2·52	26·67
,,	,,	Shrewsbury (Highfield)	3·17	1·45	1·13	·86	1·64	1·99	·92	1·58	·65	4·18	2·40	2·02	21·99
,,	,,	Oswestry (The Mount Res.)	5·74	3·71	1·80	·91	2·68	1·33	·54	3·63	·75	7·36	2·81	3·20	34·46
,,	Stafford	Penkridge (Rodbaston)	3·68	2·21	1·49	1·37	2·81	1·94	·76	1·75	1·60	4·63	2·94	3·26	28·44
,,	,,	Burton (Shobnall)	3·28	2·30	1·65	·86	2·34	2·50	·63	·86	1·32	4·64	2·54	2·70	25·62
,,	,,	Market Drayton (Old Springs)	4·35	2·27	2·00	1·58	2·27	1·34	·71	2·08	1·68	5·63	2·91	2·92	29·74
,,	Worcester	Worcester (Belmont Road)	3·52	1·45	·89	1·33	2·31	3·16	·88	·56	·62	4·16	2·15	1·45	22·48
,,	,,	Stourbridge (Pedmore)	3·83	2·05	1·01	1·64	3·03	3·05	·95	1·18	1·21	5·01	2·82	2·12	27·90
,,	Warwick	Leamington (Cubbington)	3·88	2·15	1·11	·24	1·90	3·16	1·15	1·23	1·06	4·40	2·72	1·60	24·60
,,	,,	Bedworth Cemetery	3·79	2·64	1·41	·44	2·22	3·72	·76	1·05	1·61	5·18	2·71	2·26	27·79
VII.	Leicester	Loughboro' (Nan Pantan Res)	3·63	2·77	1·32	·86	1·88	2·55	·54	·93	·91	5·14	3·02	2·55	26·10
,,	,,	Belvoir Castle	2·84	2·10	1·42	·64	1·55	2·61	1·09	1·52	1·11	4·36	3·32	2·67	25·23

ENGLAND—(*continued.*)

Div.	County.	Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
VII.	Rutland	Market Overton	4·00	1·80	1·46	·57	2·90	2·98	1·14	·84	1·25	4·44	4·01	2·74	28·13
,,	Lincoln, South	Sleaford (Rauceby Hall)	3·00	2·95	1·58	1·09	2·04	2·62	1·68	2·52	1·09	4·45	3·05	2·54	28·61
,,	,, North	Market Rasen	2·73	2·25	2·14	·83	1·61	1·55	1·16	2·19	1·00	4·36	3·85	2·47	26·14
,,	,, ,,	Burton-on-Stather Vic.	2·89	2·35	1·54	·54	1·46	1·53	·70	1·26	1·25	5·98	2·74	2·30	24·54
,,	Notts	Ollerton (Boughton W. W.)	3·29	2·08	1·51	·66	1·29	1·93	·55	1·11	·85	5·10	2·49	2·69	23·55
,,	Derby	Darley Hall	4·50	3·85	2·38	·81	2·24	1·68	·82	2·02	·75	6·18	3·57	3·06	31·86
VIII.	Cheshire	Congleton (Buglawton Vic.)	4·09	3·33	2·79	2·34	3·39	2·10	1·12	2·14	1·97	5·16	1·94	3·35	33·72
,,	Lancashire, South	Manchester (Withington)	3·86	3·17	2·52	1·50	2·60	1·20	1·89	2·54	1·85	5·64	2·28	3·64	32·69
,,	,, Central	Ormskirk (Rufford)	4·19	3·32	2·58	·94	3·30	2·68	1·63	2.95	·96	6·39	1·48	4·17	34·59
,,	,, ,,	Burnley (Swinden, Lower)	6·82	3·35	3·24	1·39	3·89	1·57	2·20	3·99	1·39	7·10	5·24	4·19	44·37
,,	,, North	St. Michael's-on-Wyre Vic.	4·50	3·38	3·26	1·57	4·26	1·99	1·71	3·66	1·14	5·84	3·19	3·63	38·13
,,	,, ,,	Cartmel (Pit Farm)	5·99	3·10	3·76	1·69	6·53	2·88	2·71	5·11	1·28	6·20	3·74	5·49	48·48
IX.	York, W. R, South	Rotherham (Moorgate)	2·86	2·63	1·43	·39	1·49	2·31	1·16	1·39	·72	5·25	3·07	3·24	25·94
,,	,, ,, Central	Meltham (Harewood Lodge)	6·57	4·88	4·38	1·69	3·48	2·13	2·33	2·67	1·24	6·87	5·26	4·06	45·56
,,	,, ,, ,,	South Milford Rectory	3·13	2·15	1·32	1·19	1·99	·88	1·84	2·96	·83	5·24	3·07	2·51	27·11
,,	,, ,, ,,	Malham Tarn	8·00	3·96	5·00	1·93	7·76	2·59	3·08	6·35	2·24	11·19	6·88	4·82	63·80
,,	,, ,, North	Ripon (Mickley)	4·06	2·04	1·49	·88	3·09	·82	·93	2·88	·49	5·57	2·99	1·81	27·05
,,	,, E.R.	Patrington	2·40	1·76	1·29	·59	1·21	1·92	·61	2·01	·69	4·44	3·15	2·14	22·21
,,	,, ,,	Pocklington (Warter)	3·55	2·26	1·53	·81	2·33	·77	1·93	2·66	·72	4·78	3·27	2·47	27·08
,,	,, ,,	Lowthorpe (The Elms)	3·08	1·74	1·90	1·04	2·23	·76	2·01	1·94	·96	3·72	3·17	2·28	24·83
,,	,, N.R.	Thirsk (Mount St. John)	2·80	1·53	2·18	1·16	2·93	1·49	1·57	2·36	·47	4·95	2·68	2·58	26·70
,,	,, ,,	Whitby (Mulgrave Castle)	2·00	2·08	1·81	·71	4·49	·93	2·07	2·76	·72	3·95	2·96	2·31	26·79
,,	,, ,,	Middlesbrough (Ormesby)	2·52	1·43	1·34	·66	3·03	1·05	1·29	2·64	·49	4·68	2·65	2·08	23·86
X.	Durham	Darlington (Hurworth Grange)	2·79	1·14	1·17	1·00	2·99	·89	2·11	2·78	·44	4·43	2·61	2·37	24·72
,,	,,	Hartlepool (Hurworth Burn)	3·09	1·02	1·15	·75	3·37	1·13	·61	3·54	·43	5·02	3·06	1·97	25·14
,,	,,	Wolsingham	3·82	1·33	1·77	1·46	3·22	·60	1·38	1·98	·78	5·15	3·29	2·80	27·58
,,	Northumberland	Corbridge (Howden Dene)	3·07	1·10	1·55	1·67	4·00	1·65	1·77	4·38	·80	3·79	3·53	2·90	30·21
,,	,,	Morpeth (Bothalhaugh)	2·25	1·07	1·09	·66	4·99	1·55	1·95	3·75	·54	5·17	2·50	2·90	28·42
,,	,,	Alwinton (Biddleston)	2·50	1·60	2·47	·95	5·48	2·65	2·20	4·77	·60	8·42	4·20	2·83	38·67
,,	,,	Howick Hall	2·33	1·36	1·39	1·05	7·69	1·77	·84	4·26	·52	5·17	2·37	2·47	31·22
,,	Cumberland	Borrowdale (Seathwaite)	19·93	9·34	9·38	4·09	16·10	4·61	8·42	12·93	4·39	15·87	13·85	11·75	130·66
,,	,,	Brampton (Denton House)	4·75	1·99	2·19	1·16	5·10	2·44	2·54	5·25	1·54	4·28	2·84	2·51	36·59
,,	Westmorland	Kendal (Ivy Garth)	7·48	3·79	3·63	1·90	8·15	2·59	2·69	6·44	1·36	8·20	5·55	4·33	56·11
,,	,,	Appleby (Castle Bank)	5·18	2·54	2·25	1·10	6·07	1·07	1·79	4·32	·96	6·30	3·08	3·03	37·69
,,	,,	Lowther Castle	5·22	1·64	2·07	1·15	4·59	·88	1·40	4·04	·99	5·42	2·88	2·13	32·41

MONMOUTH, WALES AND THE ISLANDS.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XI.	Monmouth.....	Chepstow (Piercefield Park)	5·99	3·12	1·82	1·32	2·70	2·83	·71	1·80	·80	6·66	3·37	1·63	32·75
,,	,, ...	Abergavenny (Larchfield) ..	6·71	2·61	1·73	1·14	2·66	2·37	·60	1·83	·73	6·81	3·67	2·15	33·01
,,	Glamorgan.....	Cardiff (Roath Park)	7·42	3·71	2·92	1·53	4·32	2·73	·68	2·88	1·00	7·62	3·42	2·50	40·73
,,	,, ...	Neath (Fairy Land).....	7·67	4·30	3·53	1·39	6·71	3·82	2·63	5·15	1·91	9·34	4·70	3·55	54·70
,,	Carmarthen	Llanelly (Old Market Yard)	7·83	3·72	3·42	1·15	5·89	2·71	1·91	3·46	1·99	8·48	4·64	3·78	48·98
,,	,, ...	Llanwrda (Dolaucothy) ...	8·77	5·45	4·07	1·59	7·23	3·27	1·94	6·04	1·71	8·69	4·43	6·57	59·76
,,	Pembroke	St. David's	5·97	2·98	2·25	·98	3·62	1·84	1·80	7·37	1·21	8·85	3·14	4·43	44·44
,,	Cardigan	Aberystwyth (N. Parade)..	6·04	3·41	2·34	1·33	3·61	2·10	1·27	4·20	1·23	5·70	2·28	3·70	37·21
,,	Brecon	Cantreff Rectory	8·09	4·08	2·76	·94	3·15	2·40	·74	3·25	1·04	5·90	4·75	3·06	40·16
,,	,, ...	Llysdinam [Newbridge] ...	7·40	4·18	3·69	1·59	3·64	2·68	1·27	3·86	1·30	6·52	4·32	5·35	45·80
,,	Radnor	Rhayader (Tyrmynydd) ...	11·18	7·00	5·61	1·92	4·82	3·03	1·44	5·55	1·43	8·86	5·61	7·04	63·49
,,	Montgomery.....	Newtown (Dolfor)	4·80	2·47	1·75	1·30	2·32	1·35	·81	2·02	·93	5·21	3·61	2·29	28·86
,,	Flint	Bodfari (Nantlys)	3·54	1·89	1·93	·72	1·84	1·20	·59	1·82	·72	4·85	2·05	3·23	24·38
,,	Denbigh.....	Gresford (Trewythen)	3·49	2·10	1·71	·92	2·32	·66	1·00	1·51	·77	5·65	2·26	3·74	26·13
,,	Merioneth	Dolgelly (Bryntirion)	10·57	5·10	5·46	2·82	6·84	3·40	2·67	6·73	1·88	9·78	4·05	8·40	67·70
,,	,, ...	Llanderfel (Palé)	7·83	4·79	4·16	1·10	3·43	1·41	·79	3·91	1·08	7·19	3·60	4·36	43·65
,,	,, ...	Blaenau Festiniog.....	14·66	8·58	11·72	2·81	12·33	4·70	3·38	13·09	3·56	13·03	8·94	11·79	108·59
,,	Carnarvon	Criccieth (Talarvor).....	5·65	4·10	2·87	1·54	4·60	2·22	1·10	6·30	1·14	5·97	1·91	4·89	42·29
,,	Anglesea	Llanerchymedd	4·75	3·81	3·29	1·35	4·21	1·28	1·20	4·98	1·15	6·49	2·47	4·23	39·21
,,	Isle of Man	Douglas (Woodville)	4·81	3·75	2·31	1·82	4·73	1·14	2·39	4·38	1·62	4·80	4·30	5·29	41·34
England and Wales.		**Mean of 122 stations.....**	**5·01**	**2·84**	**2·13**	**1·12**	**3·16**	**2·26**	**1·25**	**2·52**	**1·18**	**5·56**	**3·80**	**3·02**	**33·85**

SCOTLAND.

XII.	Wigton	Garliestown (Galloway House)	4·00	2·75	2·59	1·29	4·49	1·33	3·05	4·56	1·15	6·11	3·32	4·38	39·02
,,	,, ...	Corsewall	3·90	3·10	2·47	2·01	5·12	1·84	2·05	3·78	1·29	5·61	2·60	4·61	38·38
,,	Kirkcudbright ...	Dalbeattie (Little Richorn)	3·84	2·77	2·58	·72	7·47	1·88	2·31	6·57	1·27	6·87	3·75	3·36	43·39
,,	,, ...	Dalry (Glendarroch)	6·56	4·14	3·80	1·27	6·90	1·43	2·94	5·60	1·09	8·66	4·86	5·84	53·09
,,	Dumfries	Langholm (Ewes School)...	6·16	3·58	4·20	2·01	7·80	1·64	3·22	8·98	1·67	7·88	4·73	3·20	55·07
,,	,, ...	Moffat (Ericstane)	6·70	3·75	3·47	1·66	6·41	1·77	2·64	8·32	1·42	7·30	4·98	3·81	52·23
,,	Roxburgh	Hawick (Branxholme).....	3·15	1·98	2·29	·91	5·14	1·21	2·32	5·18	·64	4·76	2·95	2·73	33·26
,,	,, ...	Jedburgh (Ancrum Bridge)	2·34	1·28	1·99	1·03	5·00	2·03	1·80	5·48	·56	5·90	2·76	3·05	33·22
XIII.	Selkirk	Selkirk (The Hangingshaw)	3·64	1·87	2·19	1·19	6·61	1·46	2·16	6·41	·89	5·27	4·06	2·83	38·58
,,	Peebles	Eddlestone (Portmore) ...	3·37	1·22	2·32	1·45	5·32	1·88	2·00	6·25	1·06	7·05	5·70	1·65	39·27

SCOTLAND—(*continued.*)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XIII.	Berwick	Marchmont House	2·31	·95	2·31	1·49	7·14	1·71	2·84	5·52	·50	8·28	3·93	2·69	39·67
,,	Haddington	Whittingehame Gardens	2·34	·66	1·82	1·36	8·23	2·11	·92	5·33	1·03	5·75	5·63	2·03	37·21
,,	Midlothian	Edinburgh (Royal Obs.)	3·11	1·01	1·97	·81	4·53	1·50	1·78	5·08	·54	6·11	3·61	1·17	31·22
XIV.	Lanark	Cleghorn	4·74	2·33	3·37	1·53	5·34	1·50	2·47	6·18	1·19	8·28	4·59	3·11	44·63
,,	,,	Hamilton (Water Works)	5·20	2·85	3·20	1·25	4·60	1·20	1·90	6·00	1·60	6·10	4·30	3·90	42·10
,,	Ayr	Colmonell (Clachanton)	4·90	2·83	2·62	1·81	4·89	1·70	2·63	3·48	1·26	7·52	3·30	7·10	44·04
,,	,,	Maybole (Culzean Gardens)	4·00	2·30	4·00	1·60	3·75	1·60	2·75	4·15	1·65	6·30	3·45	4·75	40·30
,,	,,	Kilmarnock (North Craig)	4·50	3·00	3·10	2·00	4·90	1·30	3·30	5·35	1·90	5·50	4·30	5·70	44·85
XV.	Dumbarton	Helensburgh (Water Works)	5·70	3·20	3·62	1·22	5·36	1·43	2·65	3·86	2·26	6·43	4·52	4·30	44·55
,,	Stirling	Falkirk (Cauldhame)	4·23	2·99	3·94	1·25	4·46	1·71	1·92	6·12	1·28	5·64	3·88	2·50	39·92
,,	,,	Buchlyvie (The Manse)	8·05	4·13	4·59	1·93	4·80	1·62	2·98	5·62	2·23	7·47	5·82	4·10	53·34
,,	Bute	Rothesay (Crichton Road)	5·23	5·54	4·33	2·22	6·20	1·92	3·24	5·38	3·94	8·60	5·66	5·65	57·91
,,	Argyll	Kintyre (Devaar)	5·19	4·08	2·91	1·83	4·13	1·55	2·55	4·51	2·16	4·73	3·97	4·47	42·08
,,	,,	Lochgilphead (Poltalloch)	6·47	4·84	3·64	2·45	5·08	1·83	3·90	5·35	4·14	9·21	5·63	7·64	60·18
,,	,,	Inveraray (Newtown)	9·13	5·70	6·28	3·59	4·88	1·55	4·91	6·28	5·22	10·18	7·63	8·70	74·05
,,	,,	Morvern (Drimnin)	10·03	4·95	3·28	3·41	4·72	1·28	5·63	3·75	5·19	7·61	6·53	8·52	64·90
,,	,,	Ballachulish House	16·78	6·52	6·31	4·45	5·30	1·68	6·70	6·75	6·28	10·39	6·48	10·38	88·02
,,	,,	Strontian (Laudale)	12·06	8·94	5·23	4·77	4·96	·52	7·06	5·84	6·31	8·42	7·44	8·68	80·23
,,	,,	Islay (Ardbeg)	5·03	5·47	3·44	3·20	4·14	1·04	3·23	5·00	2·16	6·24	5·29	6·89	51·13
XVI.	Clackmannan	Dollar (Academy)	4·74	2·76	3·17	1·51	6·39	1·80	2·47	5·61	2·77	6·73	4·71	2·37	45·03
,,	Kinross	Loch Leven Sluice	4·47	2·11	2·68	1·05	6·28	1·67	1·29	5·57	1·34	5·33	4·64	1·67	38·11
,,	Fife	Kilconquhar (Balcarres)	2·67	·97	1·98	·75	6·61	1·93	1·13	5·79	·98	7·35	3·96	2·19	36·31
,,	Perth	Balquhidder (Stronvar)	12·96	4·03	5·70	2·58	5·36	1·19	4·50	7·61	3·26	10·82	7·57	4·91	70·49
,,	,,	Coupar Angus	2·95	1·24	1·19	·92	4·46	1·27	·92	4·65	1·20	3·58	3·67	1·62	27·67
,,	,,	Blair Atholl	4·68	3·31	2·22	1·30	4·74	·58	2·65	4·12	1·79	5·52	4·29	2·54	37·74
,,	Forfar	Arbroath (Dishland Hill)	1·67	·69	1·12	1·12	5·23	1·45	1·47	4·64	1·09	4·00	2·92	2·81	28·21
,,	,,	Kirriemuir (Balnakeilly)	3·20	1·50	1·30	1·20	4·20	·80	1·10	4·10	1·00	4·50	3·20	2·10	28·20
XVII.	Kincardine	Fettercairn (The Burn)	3·02	1·79	1·39	1·48	5·50	·69	2·03	4·82	1·17	6·09	4·98	3·08	36·04
,,	Aberdeen	Alford (Lynturk Manse)	1·97	2·31	2·40	1·76	6·55	·60	1·99	3·31	1·59	5·21	6·78	3·38	37·85
,,	,,	New Deer School House	1·26	2·44	1·75	1·73	4·23	·72	2·04	2·59	1·52	5·69	5·75	3·53	33·25
,,	Banff	Banff (Earl Hill)	·84	2·95	1·48	2·22	4·85	·94	1·21	2·42	1·78	4·56	4·14	2·79	30·18
,,	Moray	Grantown	1·69	2·26	3·06	1·84	5·75	1·31	1·81	4·33	1·45	4·97	7·17	3·23	38·87
,,	,,	Gordon Castle	·70	2·59	2·61	1·97	3·98	1·81	1·71	3·31	1·38	4·60	5·80	2·63	33·09
,,	Nairn	Cawdor (Budgate)	2·76	2·18	2·92	2·06	3·41	·80	2·01	3·15	1·38	4·07	5·24	1·91	31·89

SCOTLAND—(*continued.*)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XVII.	Nairn	Nairn (Achareidh)	1·81	1·89	2·32	1·62	3·02	·56	2·15	3·55	1·51	3·03	4·36	1·75	27·57
XVIII.	Inverness	Loch Lochy (Invergloy)	13·84	6·81	7·23	3·10	3·46	1·64	6·98	5·47	4·52	6·56	6·31	9·15	75·07
,,	,,	Glenquoich	21·71	10·82	13·00	7·00	6·10	2·56	11·86	8·15	7·42	11·45	12·11	16·69	128·87
,,	,,	Alvey Manse	3·82	1·92	2·84	2·21	4·66	·88	1·93	4·67	1·83	4·98	6·26	2·65	38·65
,,	,,	Loch Ness (Garthbeg)	13·33	5·17	7·54	3·84	5·94	1·07	3·33	4·25	2·70	9·13	5·00	4·37	65·67
,,	Ross & Cromarty.	Applecross Gardens	8·84	6·92	4·45	3·36	4·25	1·76	5·00	5·43	4·17	6·10	8·84	8·00	67·12
,,	,, ,,	Strathconan (Dalbreac)	7·45	2·96	8·45	2·78	4·39	1·00	3·70	3·77	2·00	5·64	7·96	7·05	57·15
,,	,, ,,	Loch Torridon (Bendamph)	14·70	6·50	8·52	6·44	7·14	2·22	9·24	4·94	3·02	10·52	11·75	9·96	94·95
,,	,, ,,	Alness (Ardross Castle)	4·93	6·37	3·27	2·32	5·78	·62	2·91	3·64	1·88	5·71	7·18	4·11	48·72
XIX.	Sutherland	Invershin	3·51	4·09	2·45	2·71	4·76	·63	3·44	3·34	1·43	2·72	8·18	3·39	40·65
,,	,,	Dunrobin Castle	2·87	5·81	2·41	2·18	4·50	·53	3·34	3·37	2·08	2·44	8·66	3·22	41·41
,,	,,	Bettyhill	3·81	5·39	2·92	1·73	4·43	1·04	3·87	2·17	1·97	2·88	6·78	3·72	40·71
,,	Caithness	Wick	1·78	4·52	2·45	2·39	4·28	·60	2·40	2·12	1·73	3·14	4·40	3·38	33·19
Scotland.	**Mean of 57 stations**		**5·50**	**3·53**	**3·52**	**2·11**	**5·23**	**1·37**	**3·09**	**4·94**	**2·13**	**6·32**	**5·42**	**4·49**	**47·65**
		IRELAND.													
XX.	Cork	Castletownshend (Glen Barrabane)	6·19	4·21	2·46	·79	5·52	1·49	2·94	2·82	1·17	4·68	3·79	2·60	38·66
,,	,,	Cork (The Palace)	5·60	3·30	1·15	1·20	3·28	1·69	2·79	1·41	·77	4·20	3·12	1·85	30·36
,,	,,	Mallow (Summer Hill)	5·20	2·56	1·84	1·65	2·78	3·24	3·10	2·26	·80	5·16	1·95	2·63	33·17
,,	Kerry	Waterville (Iveragh Lodge)	6·70	4·17	1·96	1·54	4·44	3·29	2·43	3·18	1·03	5·00	3·19	3·52	40·45
,,	,,	Kenmare (Derreen)	9·20	6·28	4·54	2·13	6·45	3·50	7·81	3·00	2·07	7·54	4·33	4·05	60·90
,,	Waterford	Waterford (Brook Lodge)	4·86	3·69	1·81	1·34	3·70	1·46	1·81	2·34	1·65	6·10	2·17	2·28	33·21
,,	Tipperary	Clonmel (Bruce Villa)	4·49	2·84	1·99	1·51	2·41	1·35	2·12	1·67	1·20	5·47	1·62	2·95	29·62
,,	,,	Nenagh (Castle Lough)	4·98	3·26	3·25	1·64	3·52	2·15	2·44	3·12	1·51	5·99	1·74	3·38	36·98
,,	,,	Ballingarry (Gurteen)	4·07	2·54	2·46	2·02	3·59	2·12	3·30	2·69	1·47	4·88	1·88	2·39	33·40
,,	Limerick	Limerick (Roxborough)	4·82	3·45	3·50	1·97	2·82	3·38	3·08	3·19	1·31	4·68	1·72	3·97	38·39
,,	Cork	Carrigaholt Castle	5·41	4·04	2·24	1·83	2·90	2·43	2·10	3·64	1·05	5·35	2·10	3·71	36·80
,,	,,	Miltown Malbay	6·50	4·21	3·29	1·62	4·02	2·71	3·28	4·84	1·87	7·55	3·01	4·88	47·78
XXI.	Wexford	New Ross (Longraigue)	4·67	2·88	2·28	1·19	3·73	1·58	1·32	2·86	·96	5·98	2·16	2·16	31·77
,,	,,	Enniscorthy (Ballyhyland)	5·18	3·19	2·56	1·27	3·47	2·36	1·44	2·71	1·28	5·85	2·09	3·40	34·80
,,	,,	Gorey (Courtown House)	4·17	2·58	1·86	1·38	2·74	1·65	1·07	1·99	·82	4·78	2·22	2·33	27·59
,,	Kilkenny	Kilkenny (Lavistown Ho.)	3·47	1·98	1·96	1·12	2·52	1·35	1·87	2·24	·85	5·01	1·31	2·87	26·55
,,	Wicklow	Bray (Fassaroe)	6·12	2·65	2·30	2·04	3·87	1·23	1·13	1·92	·38	5·46	2·11	2·57	31·78
,,	Carlow	Carlow (Browne's Hill)	3·86	2·62	2·56	1·43	2·86	1.40	1·59	2·04	·81	4·63	1·67	2·28	27·75

IRELAND—(*continued.*)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XXI.	Queen's County...	Abbey Leix (Blandsfort)...	4·27	2·71	2·17	2·05	3·38	1·24	2·25	2·10	1·01	5·12	1·71	2·61	30·62
,,	Kildare	Straffan House.....	3·75	2·03	1·87	1·57	2·35	1·88	1·46	2·24	·57	3·76	1·74	2·47	25·69
,,	Dublin	Glasnevin (Botanic Gardens)	3·98	1·75	1·60	1·53	2·69	1·55	1·03	2·35	·84	3·19	1·54	2·07	24·12
,,	Meath	Athboy	4·04	2·29	1·75	1·29	4·01	1·51	2·17	3·81	1·01	5·75	1·95	2·80	32·38
,,	,, ...	Moynalty (Westland)	4·56	2·81	2·16	1·30	4·90	2·13	2·76	4·11	1·32	5·02	1·91	3·03	36·01
,,	Westmeath	Athlone (Twyford)	5·34	2·84	2·45	1·56	3·79	1·95	3·56	3·97	1·28	5·84	1·41	2·63	36·62
,,	,, ...	Mullingar (Belvedere).....	4·29	2·91	1·92	1·85	3·83	2·22	2·34	2·64	1·44	5·89	2·44	2·92	34·69
,,	Louth	Ardee (Lissrenny).....	4·07	1·92	1·83	1·73	3·63	1·80	2·40	3·89	1·00	5·27	2·19	2·55	32·28
,,	,, ...	Greenore	3·73	2·02	1·91	1·32	3·31	2·05	2·27	3·25	·78	3·37	2·58	2·71	29·30
XXII.	Galway	Ballinasloe	5·70	3·04	2·58	1·58	3·70	2·05	3·64	4·07	1·00	4·69	1·62	*3·00*	*36·67*
,,	,, ...	Clifden (Kylemore House)	11·08	6·05	3·46	4·34	5·56	4·29	6·22	5·85	3·31	9·46	5·52	5·96	71·10
,,	,, ...	Tuam (Gardenfield).....	6·06	3·78	2·97	2·58	4·16	2·96	2·24	3·87	1·88	4·86	2·95	4·93	43·24
,,	Mayo	Ballinrobe (Cranmore).....	7·01	4·81	3·74	2·47	5·13	3·00	2·94	4·37	1·79	4·74	2·77	4·38	47·15
,,	,, ...	Doo Castle [Tobercurry]...	5·32	3·26	2·97	2·33	5·93	2·00	2·57	3·48	1·94	4·54	2·74	4·23	41·31
,,	,, ...	Blacksod Point.....	7·26	4·88	3·71	3·02	4·04	2·42	3·11	2·96	2·13	5·64	3·79	5·71	48·67
,,	,, ...	Crossmolina (Enniscoe) ...	7·08	4·84	3·53	3·48	4·32	2·44	3·75	4·53	1·56	6·43	3·46	5·69	51·11
,,	Sligo	Ballysadare B. (Glen Lodge)	6·18	3·80	3·06	3·15	3·41	1·60	1·95	4·61	1·87	4·43	2·62	4·71	41·39
XXIII.	Cavan	Stradone House	4·79	2·79	2·68	1·75	3·29	1·04	3·13	3·49	1·47	5·78	2·47	2·77	35·45
,,	,, ...	Ballyconnell House.....	5·57	3·60	3·06	2·59	4·64	1·53	3·95	7·17	1·45	4·86	2·84	4·90	46·16
,,	Monaghan.....	Monaghan (Rowantree Ho.)	3·54	1·70	2·12	1·73	3·53	1·14	2·58	3·54	1·13	4·36	2·22	2·38	29·97
,,	Armagh.....	Armagh Observatory	3·32	2·18	2·17	1·75	4·04	·89	2·08	3·63	1·13	4·34	1·97	2·64	30·14
,,	Down.....	Seaforde	3·97	2·05	1·97	2·09	4·12	1·23	2·50	3·85	·94	5·13	2·74	3·64	34·23
,,	,, ...	Donaghadee	3·15	2·07	1·48	1·35	3·53	1·30	1·90	3·52	·80	4·44	2·06	3·00	28·60
,,	Antrim	Belfast (Springfield).....	4·72	3·29	2·96	2·57	4·42	1·31	2·25	5·47	1·45	4·79	3·41	4·61	41·25
,,	,, ...	Ballymena (Harryville) ...	3·90	3·65	2·70	3·13	4·42	1·03	2·95	5·31	1·83	5·29	4·19	4·71	43·11
,,	,, ...	Bushmills (Dundarave) ...	3·96	2·62	2·46	3·13	2·97	1·28	1·75	3·98	1·74	3·70	3·90	4·95	36·44
,,	Londonderry.....	Garvagh (Moneydig)	4·11	3·14	2·69	3·26	3·32	·90	1·92	5·15	1·46	3·43	3·62	4·39	37·39
,,	Tyrone	Stewartstown (The Square)	3·54	2·78	2·70	2·46	4·87	1·30	2·96	4·33	1·43	4·64	2·69	3·59	37·29
,,	,, ...	Omagh (Edenfel)	5·34	3·00	3·60	3·18	4·46	·91	2·75	4·43	1·94	5·65	3·74	3·40	42·40
,,	Donegal.....	Lough Eske Castle	8.64	6·39	6·14	4·78	4·82	2·03	3·03	6·49	3·45	5·88	7·25	9·84	68·74
,,	,, ...	Convoy	7·70	4·93	4·22	3·76	3·67	1·20	2·17	4·48	2·33	5·34	4·95	5·82	49·97
,,	,, ...	Buncrana (Rockfort)	6·33	3·84	3·65	3·08	3·75	1·11	1·76	4·99	1·17	2·76	4·18	5·41	42·03
,,	,, ...	Horn Head	6·97	4·31	3·97	2·87	2·70	·89	2·77	5·53	1·98	4·64	4·88	5·11	46·62
Ireland.	**Mean of 51 stations**		**5·27**	**3·31**	**2·67**	**2·12**	**3·82**	**1·86**	**2·60**	**3·64**	**1·40**	**5·12**	**2·79**	**3·67**	**38·27**
BRITISH ISLES.	**Mean of 230 stations**		**5·19**	**3·12**	**2·59**	**1·59**	**3·81**	**1·95**	**2·01**	**3·37**	**1·47**	**5·65**	**3·97**	**3·53**	**38·25**

ON THE RELATION OF THE TOTAL FALL OF RAIN IN 1906 TO THE AVERAGE.

VIEWED broadly, the rainfall of the British Isles for 1906 was neither above nor below the average of the 30 years, 1870–99. By one computation it showed an excess of 1 per cent., by another a deficiency of 1 per cent., and there is thus no reason to doubt that the year had the unusual distinction of being one of average general rainfall. The meaning of the term "average general rainfall" is simply that the total volume of water which fell as rain, snow, hail or dew, on the surface of the British Isles in 1906 was one-thirtieth part of the whole volume that fell on the British Isles from 9 a.m. on January 1st, 1870, to 9 a.m. on January 1st, 1900. It has been pointed out on previous occasions that since 1889 there has been a regular alternation of two dry years and one wet year; and if that succession were to hold 1906 should have proved wet and 1907 should prove dry. Popular opinion as to the wetness or dryness of a year is influenced mainly by the holiday months, and the dry summer of 1906 caused a very general opinion to prevail that the year was a very dry one, which it certainly was not for the country as a whole. Sooner or later the relationship of two dry years and one wet is bound to come to an end, for it began suddenly in 1889, and it is not easy to believe that the course of Nature was definitely changed in that year. An average year may be viewed as one of very small excess if the succeeding two years prove very dry, or it may be viewed as one of very small deficiency and the beginning of a different sequence if the succeeding years prove wet. In either case next year will afford a better opportunity than the present for discussing what is certainly a point of great interest.

The abstract of all the selected stations, 172 in number, the rainfall at which is set out in the Table which concludes this section, enables us to consider how the rainfall of the British Isles is compounded to produce the average over all.

ABSTRACT.

COUNTRIES.	No. of Records utilized.	Average. 10 years 1890-99.	Average. 30 years 1870-99.	1906.	Diff. from Average 1870-99. Amount.	Per cent.
		in.	in.	in.	in.	
England and Wales...	94	32·41	34·52	34·23	·29 —	1
Scotland.....	45	45·14	45·16	48·69	3·53 +	8
Ireland	33	39·66	40·28	37·85	2·43 —	6
British Isles	172	37·13	38·41	38·71	·30 +	1

It is seen that for Scotland as a whole the year was wet, the excess being 8 per cent. over the 30 years' average, which for that part of Great Britain coincided with the average of the ten years, 1890–99. For Ireland the year was dry, the deficiency amounting to 6 per cent. of the thirty years' average, or 5 per cent. of the ten years' average, 1890–99. For England and Wales there was a deficiency of 1 per cent. on the 30 year's average, but an excess of 5 per cent. on the much smaller average rainfall which prevailed for the ten years, 1890–99. The integral parts of the British Isles, therefore, form a contrasted series, with England and Wales in the centre rejoicing in a rainfall which for the country as a whole was the average of 30 years, Scotland on the north with a very pronounced excess, and Ireland on the west with a scarcely less pronounced deficiency.

The map showing the difference of the rainfall in 1906 from the 30 years' average will be found as the frontispiece to the volume. On this occasion, for the first time, it is printed in colours, in order to express more clearly the relative wetness or dryness of the year in different parts of the country. Each of the 172 stations employed is indicated by a black dot; but many other stations for which averages are available were also used, so that the lines may be looked upon as correct within the limitations of the scale, except it may be in the central Highlands of Scotland where stations are deplorably few and far between. Every part of the country where the rainfall in 1906 was above the average is tinted blue, and where it was more than 10 or 20 per cent. above the average in darker shades. Every part where the rainfall was below the average is similarly tinted in shades of red.

Beginning with the northern kingdom we see that the island of Mull, a small area in the south, and a somewhat larger area stretching

inland from between Aberdeen and Dundee on the east coast, had just a little less than the average rainfall. All the rest of the country showed an excess, and almost the whole of it an excess of more than 10 per cent., while three considerable areas, two in the north and one in East Lothian, showed excesses of more than 20 per cent., and in the heart of each of the three areas, one station at least had more than 30 per cent. excess, an amount which is not often exceeded. In those parts of the country 1906 was a very wet year.

In Ireland the average rainfall was exceeded slightly in the west and north-west, and one station showed an excess greater than 10 per cent., so that a small medium blue patch appears on the map. More than half the country, however, had less than the average fall, and the east and south showed a deficiency of more than 10 per cent., while in the south-east and south the deficiency amounted to more than 20 per cent., and at Cork to 25 per cent., that station having had only three-quarters of the average rainfall. In the south of Ireland, therefore, 1906 proved to be a very dry year.

In England and Wales the distribution of rainfall was very remarkable. Though the total volume of water which fell upon the surface was the average amount of 30 years, parts of both England and Wales were decidedly wet and parts were decidedly dry. It is most easy to understand the map if one considers England and Wales as having rather more than average rainfall, except in two dry areas. One of these was in the north-east, stretching from the Wash to Newcastle and the Lake District, with a patch where the deficiency was more than 10 per cent. in the East and North Ridings of Yorkshire. The other dry area was in the west and south, stretching from the south coasts of Cornwall, Devon and Dorset, through the Midlands and the east of Wales to the estuary of the Dee. In the heart of this, through Devonshire, Somerset, the west of Gloucestershire, Hereford, and the whole Welsh border, ran a broad strip in which the deficiency was more than 10 per cent. The remainder of the country which was above the average, had nearly the same area as the part below, and the wet district may be said to have run along the west coast and to have crossed England in a broad belt from north-west to south-east, with occasional centres where the excess slightly exceeded 10 per cent.

Taken generally the distribution of wet and dry areas was such as to recall the banded structure of the previous year, and of the winter half-year as already described. The conditions in which this

article is written—while the printer is waiting for "copy"—make it impossible to attempt to seek for the causes of the distribution which it is our special task to ascertain and set forth; but the impression which the inspection of successive rainfall maps makes upon us is that the direction of the movement of atmospheric depressions is a possible explanation of the distribution of the rainfall for the year; and if the tracks had in recent years been less from west to east than from south-west to north-east; or if the cyclone centres passed on their south-west to north-east course from a more southerly origin, we should not be surprised.

Reverting, in conclusion, to the variation of the general rainfall from the average, we reproduce, and extend, the Rough Comparison Table, with the warning that the first half of the columns for Scotland and Ireland are much less satisfactory than the rest of the Table. The last column gives the best obtainable view of the variations of rainfall for the British Isles as a whole since 1881, and it will be noticed that no other year has approached so near to the general average as 1906, though 1898 came very close to it indeed.

It should be remembered that the data for the rough comparison are not the same as those for the detailed comparison of the year with the average which follows. The former is a comparison of the general rainfall for the year with the average general rainfall of the country as determined previously, largely from different stations; the latter is the mean of the comparison of the rainfall at each station in 1906 with its own average. Hence it is a matter of gratification that the two methods should concur in showing that the general rainfall in 1906 was not more than one per cent. different from the average.

Rough Comparison of the Rainfall for 26 Years.

	England & Wales.			Scotland.			Ireland.			British Isles.			Corrected Values.
	Fall.	Diff. from Av.		Fall.	Diff. from Av.		Fall.	Diff. from Av.		Fall.	Diff. from Av.		
		Amt.	p.c.		Amt.	p.c.		Amt.	p.c.		Amt.	p.c.	
	in.	in.		in.	in.		in.	in.		in.	in.		
Mean	33·92	—	—	46·85	—	—	42·28	—	—	39·25	—	—	
Year.													
1881	35·81	1·89	+ 6	38·09	8·76	—19	36·11	6·17	—15	36·26	2·99	— 8	+ 2
1882	41·91	7·99	+24	44·75	2·10	— 4	40·83	1·45	— 3	42·42	3·17	+ 8	+18
1883	36·82	2·90	+ 8	39·81	7·04	—15	39·91	2·37	— 6	37·51	1·74	— 4	+ 6
1884	29·24	4·68	—14	40·25	6·60	—14	35·50	6·78	—16	31·56	7·69	—20	—10
1885	33·25	·67	— 2	33·78	13·07	—28	35·52	6·76	—16	33·41	5·84	—15	— 5
1886	37·53	3·61	+11	37·31	9·54	—20	41·61	·67	— 2	37·59	1·66	— 4	+ 6
1887	23·60	10·32	—30	29·14	17·71	—38	24·72	17·56	—42	24·80	14·45	—37	—27
1888	31·66	2·26	— 7	37·10	9·75	—21	39·61	2·67	— 6	32·98	6·27	—16	— 6
1889	31·10	2·82	— 8	32·81	14·04	—30	33·49	8·79	—21	31·52	7·73	—20	—10
1890	30·07	3·85	—11	46·56	·29	— 1	38·54	3·74	— 9	36·20	3·05	— 8	— 3
1891	37·36	3·44	+10	43·59	3·26	— 7	39·35	2·93	— 7	39·41	·16	+ 0	+ 5
1892	30·35	3·57	—11	42·55	4·30	— 9	39·13	3·15	— 7	35·42	3·83	—10	— 5
1893	28·21	5·71	—17	41·67	5·18	—11	32·50	9·78	—23	32·63	6·62	—17	—12
1894	36·14	2·22	+ 6	44·20	2·65	— 6	40·82	1·46	— 3	39·18	·07	— 0	+ 5
1895	31·32	2·60	— 8	39·32	7·53	—16	37·63	4·65	—11	34·66	4·59	—12	— 7
1896	30·94	2·98	— 9	42·11	4·74	—10	37·35	4·93	—12	35·06	4·19	—11	— 6
1897	34·14	·22	+ 1	43·70	3·15	— 7	43·53	1·25	+ 3	38·38	·87	— 2	+ 3
1898	29·42	4·50	—13	49·82	2·97	+ 6	38·40	3·88	— 9	36·46	2·79	— 7	— 2
1899	31·52	2·40	— 7	47·82	·97	+ 2	40·04	2·24	— 5	37·28	1·97	— 5	— 5
1900	36·37	2·45	+ 7	53·38	6·53	+14	45·48	3·20	+ 8	42·34	3·09	+ 8	+ 8
1901	29·83	4·09	—12	41·04	5·81	—12	40·33	1·95	— 5	34·85	4·40	—11	—11
1902	28·01	5·91	—17	38·73	8·12	—17	37·56	4·72	—11	32·71	6·54	—17	—17
1903	43·81	9·89	+29	59·05	12·20	+26	51·11	8·83	+21	49·26	10·01	+26	+26
1904	30·25	3·67	—11	43·70	3·15	— 7	40·67	1·61	— 4	35·81	3·44	— 9	— 9
1905	28·80	5·12	—15	43·04	3·81	— 8	35·80	6·48	—15	33·92	5·33	—14	—14
1906	34·23	·31	+ 1	48·69	1·84	+ 4	37·85	4·43	—10	38·71	·54	— 1	— 1

COMPARISON OF THE RAINFALL OF THE YEAR 1906 WITH THE AVERAGE OF THE PERIODS 1890-99 & 1870-99.

ENGLAND & WALES.

DIV.	COUNTY.	STATION.	Average, 1890-9.	Average, 1870-99.	Depth in 1906.	Difference from average, 1870-99. Amount.	Per cent.
			in.	in.	in.	in.	
I.	London	St. Pancras (Camden Square)	22·78	25·16	24·26	·90	— 4
II.	Surrey, West	Abinger Hall	30·03	(31·70)	31·90	·20	+ 1
,,	Kent, West	Tenterden	26·76	28·36	27·58	·78	— 3
,,	,, ,,	Sevenoaks (River Hill)	26·23	27·49	28·96	1·47	+ 5
,,	,, East	Selling (Harefield)	28·83	29·55	29·22	·33	— 1
,,	Sussex, West	Chichester (Chilgrove)	33·60	33·82	39·24	5·42	+ 16
,,	,, East	Falmer	32·47	33·58	35·06	1·48	+ 4
,,	Hampshire	Isle of Wight (Osborne)	27·87	28·12	31·22	3·10	+ 11
,,	,,	Alresford (Ovington)	30·41	(32·00)	35·58	3·58	+ 11
,,	Berkshire	Newbury (Welford Park)	28·75	30·29	31·86	1·57	+ 5
III.	Hertfordshire	Hertford (Bayfordbury)	22·84	24·97	25·81	·84	+ 3
,,	,,	Hitchin (Wratten)	23·25	24·66	25·44	·78	+ 3
,,	Buckingham	Slough (Langley)	23·25	24·00	24·82	·82	+ 3
,,	,,	Winslow (Addington Manor)	23·84	26·75	25·81	·94	— 4
,,	Oxfordshire	Oxford (Magdalen College)	21·40	24·54	22·24	2·30	— 9
,,	,,	Bloxham Grove	23·40	(27·20)	25·31	1·89	— 7
,,	Northampton	Wellingboro' (Croyland Abbey)	21·55	25·31	26·59	1·28	+ 5
,,	Cambridgeshire	Stretham Engine	20·96	22·16	22·33	·17	+ 1
,,	,,	Wisbech (Bank House)	22·28	24·89	24·38	·51	— 2
IV.	Essex	Chelmsford (High Street)	21·22	22·96	24·19	1·23	+ 5
,,	,,	Newport (The Vicarage)	24·27	(24·80)	26·17	1·37	+ 6
,,	Suffolk	Rendlesham Hall	22·60	(23·70)	22·90	·80	— 3
,,	,,	Ixworth (Walsham-le-Willows)	25·17	25·87	26·28	·41	+ 2
,,	Norfolk	Geldeston [Beccles]	22·97	23·93	26·09	2·16	+ 9
,,	,,	Swaffham (Dunham)	25·92	28·41	28·13	·28	— 1
,,	,,	North Walsham (Dilham)	24·85	(27·10)	29·61	2·51	+ 9
V.	Wiltshire	Salisbury Plain (Chitterne Ho.)	26·88	28·56	29·17	·61	+ 2
,,	,,	New Swindon	26·26	(28·20)	27·13	1·07	— 4
,,	Dorsetshire	Wareham (Castle Gardens)	30·32	(31·90)	35·33	3·43	+ 11
,,	,,	Beaminster Vicarage	34·87	(38·20)	35·23	2·97	— 8
,,	Devonshire, S.	Ashburton (Druid House)	49·99	52·92	45·76	7·16	— 14
,,	,, ,,	Polapit Tamar	36·79	38·85	40·10	1·25	+ 3
,,	,, ,,	Bampton (Huntsham)	45·28	(46·80)	38·60	8·20	— 18
,,	,, N.	Barnstaple (Arlington Court)	51·68	53·30	64·03	10·73	+ 20
,,	Cornwall	Penzance (St. Clare)	41·33	(43·40)	44·37	·97	+ 2
,,	,,	St. Austell (Trevarna)	42·75	47·16	43·08	4·08	— 9
,,	Somerset, N.	Street	26·90	30·40	30·30	·10	— 0
VI.	Gloucester, W.	Clifton (Pembroke Road)	32·59	35·45	32·06	3·39	— 10
,,	,, ,,	Stroud (Upfield)	26·83	29·85	26·87	2·98	— 10
,,	Herefordshire	Ross (The Graig)	25·61	29·51	22·21	7·30	— 25

ENGLAND & WALES—(*continued*).

DIV.	COUNTY.	STATION.	Average, 1890-9.	Average, 1870-99.	Depth in 1906.	Difference from average, 1870-99. Amount.	Per cent.
			in.	in.	in	in.	
VI.	Herefordshire...	Kington (Lynhales)	29·50	33·56	29·89	3·67	— 11
,,	Shropshire.....	Bishops Castle (Castle Street)..	28·46	(32·90)	26·80	6·10	— 19
,,	,, ...	Shifnal (Haughton Hall)	25·41	28·21	28·26	·05	+ 0
,,	,, ...	MarketDrayton(Buntingsdale)	26·53	(28·70)	30·64	1·94	+ 7
,,	Staffordshire ...	Burton (Rangemore)	24·96	28·01	26·89	1·12	— 4
,,	,, ...	Cheadle (The Heath House) ...	30·05	(33·50)	34·27	·77	+ 2
,,	Worcestershire.	Northwick Park	25·24	29·22	27·94	1·28	— 4
,,	,, ...	Grt. Malvern (Church Street).	24·79	(29·00)	28·32	·68	— 2
,,	,, ...	Stourbridge (Pedmore)	25·59	(29·20)	27·90	1·30	— 4
,,	Warwickshire..	Coventry (Kingswood)	26·98	29·21	26·76	2·45	— 8
VII.	Leicestershire ..	Thornton Reservoir	24·17	26·48	29·23	2·75	+ 10
,,	Rutland	Market Overton	24·05	(26·90)	28·13	1·23	+ 5
,,	Lincoln, South.	Stubton [Newark]	21·47	24·87	23·15	1·72	— 7
,,	,, North.	Louth (Westgate)	27·59	29·18	28·62	·56	— 2
,,	,, ,,	Brigg	24·40	(26·31)	25·75	·56	— 2
,,	Nottingham ...	Worksop (Hodsock Priory) ...	22·67	(24·70)	23·43	1·27	— 5
,,	Derbyshire.....	Matlock Bath	28·93	35·07	35·83	·76	+ 2
VIII.	Cheshire.....	Chester (Christleton Hall) ...	26·85	(28·65)	27·12	1·53	— 5
,,	,, ...	Chelford (Astle Hall).....	28·49	(30·60)	33·14	2·54	+ 8
,,	,, ...	Torrside Reservoir.....	43·93	44·98	46·77	1·79	+ 4
,,	Lancashire, C...	Ormskirk (Rufford)	32·63	33·71	34·59	·88	+ 3
,,	,, ,,...	Stonyhurst College	48·16	47·57	49·67	2·10	+ 4
,,	,, N...	Kirkham (Weeton)	36·86	(38·60)	37·94	·66	— 2
,,	,, ,,...	Ulverston (Poaka Beck)	52·16	51·80	58·20	6·40	+ 12
IX.	York, WR Central	Wakefield Prison	24·86	(26·80)	24·82	1·98	— 7
,,	,, ,, ,,	Malham Tarn	58·44	58·17	63·80	5·63	+ 10
,,	,, ,, North	Wetherby (Ribston Hall).....	23·69	26·96	27·93	·97	+ 4
,,	,, E. Riding.	Pocklington (Warter)	29·03	30·75	27·08	3·67	— 12
,,	,, N.Riding.	Scarborough (Osgodby).....	25·11	(27·70)	22·82	4·88	— 18
,,	,, ,, ...	Northallerton (Osmotherley)...	23·86	27·35	23·99	3·36	— 12
,,	,, ,, ...	Middlesbrough (Albert Park).	24·72	(24·30)	20·47	3·83	— 16
X.	Durham.....	Wolsingham	33·26	34·75	27·58	7·17	— 21
,,	,, ...	Sunderland(W.HendonHouse)	25·11	26·19	25·94	·25	— 1
,,	Northumberlnd	Hallington (Fawcett)	28·73	29·12	29·85	·73	+ 3
,,	,, ...	Rothbury (Cragside)	33·27	34·41	36·23	1·82	+ 5
,,	,, ...	Ilderton (Lilburn Tower)	(26·17)	(29·19)	29·93	·74	+ 3
,,	Cumberland ...	Borrowdale(Seathwaite)	135·75	132·74	130·66	2·08	— 2
,,	,, ...	Carlisle (Cemetery)	33·04	31·64	31·88	·24	+ 1
,,	Westmorland...	KirkbyStephen(RedmaineHo.)	46·05	42·12	40·34	1·78	— 4
XI.	Monmouth.....	Abergavenny (Larchfield).....	34·91	37·82	33·01	4·81	— 13
,,	Glamorgan.....	Cardiff (Ely)	39·51	42·81	43·49	·68	+ 2
,,	,, ...	Neath	47·28	(50·50)	57·72	7·22	+ 14
,,	Carmarthen ...	Llandilo (Dynevor Castle) ...	50·57	(52·80)	54·90	2·10	+ 4
,,	Pembroke	Pembroke (Stackpole Court) ..	37·70	(41·20)	44·00	2·80	+ 7
,,	,, ...	Castle Malgwyn [Llechryd] ..	40·85	43·85	45·26	1·41	+ 3
,,	Cardigan	Aberystwyth (Gogerddan) ...	44·67	45·41	47·64	2·23	+ 5
,,	Brecon	Cantreff Rectory.....	46·39	(51·10)	40·16	10·94	— 21

ENGLAND & WALES—(*continued*).

DIV.	COUNTY.	STATION.	Average, 1890-9.	Average, 1870-99.	Depth in 1906.	Difference from average, 1870-99. Amount.	Per cent.
			in.	in.	in.	in.	
XI.	Radnor	Rhayader (Tyrmynydd)	(58·90)	(63·65)	63·49	·16	— 0
,,	Flint	Bodfari (Nantlys)	26·30	28·71	24·38	4·33	— 15
,,	Merioneth	Llanderfel (Palé)	45·65	(48·20)	43·65	4·55	— 9
,,	Carnarvon	Criccieth (Talarvor)	35·56	35·83	42·29	6·46	+ 18
,,	Anglesea	Llanerchymedd (Llwydiarth Esgob)	38·60	38·21	39·21	1·00	+ 3
,,	Isle of Man	Douglas (Woodville)	41·83	(43·30)	41·34	1·96	— 5
,,	Scilly	St. Mary's	31·23	(32·80)	29·76	3·04	— 9

SCOTLAND.

XII.	Wigton	Stoneykirk (Ardwell House)	34·77	(35·05)	37·25	2·20	+ 6
,,	Kirkcudbright	Auchencairn (Torr House)	46·02	(46·45)	49·15	2·70	+ 6
,,	,,	Gatehouse (Cally)	47·90	48·74	41·74	7·00	— 14
,,	,,	Cargen [Dumfries]	43·90	43·43	45·42	1·99	+ 5
,,	Dumfries	Moffat (Ericstane)	52·60	54·97	52·23	2·74	— 5
,,	Roxburgh	Hawick (Branxholme)	33·89	(34·80)	33·26	1·54	— 4
XIII.	Selkirk	Galashiels (Abbotsford Road)	31·26	33·82	38·26	4·44	+ 13
,,	Berwick	Marchmont House	31·93	34·94	39·67	4·73	+ 14
,,	Haddington	Prestonkirk (Smeaton)	24·33	25·72	33·69	7·97	+ 31
,,	Midlothian	Pentland Hills (Glencorse)	38·93	39·55	45·89	6·34	+ 16
XIV.	Lanark	Airdrie (Hillend Res.)	38·68	37·30	43·62	6·32	+ 17
,,	Ayr	Girvan (Pinmore)	46·98	48·87	54·14	5·27	+ 11
,,	,,	Loch Finlas	50·86	(51·70)	56·74	5·04	+ 10
,,	,,	Kilmarnock (North Craig)	42·45	39·46	44·85	5·39	+ 14
,,	Renfrew	Gorbals W.W. (Waulk Glen)	49·00	46·91	50·75	3·84	+ 8
XV.	Stirling	Stirling (Polmaise Gardens)	34·59	35·80	39·19	3·39	+ 9
,,	Argyll	Kintyre (Skipness Castle)	50·14	49·18	56·67	7·49	+ 15
,,	,,	Inveraray (Newtown)	72·27	(62·80)	74·05	11·25	+ 18
,,	,,	Strontian (Laudale)	68·69	(72·20)	80·23	8·03	+ 11
,,	,,	Islay (Ardbeg)	43·00	(44·60)	51·13	6·53	+ 15
,,	,,	Mull (Quinish)	56·30	(57·50)	54·48	3·02	— 5
XVI.	Kinross	Loch Leven Sluice	35·83	36·20	38·11	1·91	+ 5
,,	Fife	Kilconquhar (Balcarres)	32·93	(34·90)	36·31	1·41	+ 4
,,	Perth	Bridge of Turk	60·56	66·66	58·50	8·16	— 12
,,	,,	Balquhidder (Stronvar)	72·98	(74·70)	70·49	4·21	— 6
,,	,,	Dunkeld (Inverbraan)	(38·00)	(39·80)	39·28	·52	— 1
,,	Forfar	Dundee (Eastern Necropolis)	27·55	28·95	26·65	2·30	— 8
,,	,,	Kirriemuir (Lintrathen)	33·03	(35·60)	32·18	3·42	— 10
,,	,,	Montrose (Sunnyside Asylum)	26·98	29·16	27·28	1·88	— 6
XVII.	Aberdeen	Braemar	34·51	36·07	37·33	1·26	+ 3
,,	,,	Cromar (Tillypronie)	31·73	30·65	42·48	11·83	+ 39
,,	,,	Ellon (Mains of Waterton)	30·09	30·91	33·21	2·30	+ 7
,,	Banff	Keith Station	33·84	32·72	39·25	6·53	+ 20
,,	Elgin	Grantown	31·69	31·00	38·87	7·87	+ 25
,,	Nairn	Nairn (School House)	25·42	(24·60)	29·73	5·13	+ 21
XVIII.	Inverness, West	Loch Shiel (Glenfinnan)	108·85	105·29	104·51	·78	— 1

SCOTLAND—(*continued*).

DIV.	COUNTY.	STATION.	Average, 1890-9.	Average, 1870-99.	Depth in 1906.	Difference from average 1870-99. Amount.	Per cent.
			in.	in.	in.	in.	
XVIII.	Inverness, West	Glenquoich	112·44	108·26	128·87	20·61	+ 19
,,	Ross, West	Strathconan (Dalbreac)	53·62	(50·90)	57·15	6·25	+ 12
,,	,, ,,	Loch Torridon (Bendamph)	88·95	86·50	94·95	8·45	+ 10
,,	,, ,,	Braemore House	64·48	58·56	64·57	6·01	+ 10
,,	,, East	Fearn (Lower Pitkerrie)	23·50	23·52	27·76	4·24	+ 18
XIX.	Sutherland	Invershin	32·66	32·76	40·65	7·89	+ 24
,,	,,	Dunrobin Castle	32·26	31·60	41·41	9·81	+ 31
,,	Caithness	Watten Station	28·03	(27·40)	28·78	1·38	+ 5
,,	Orkney	Shapinsay (Balfour Castle)	32·74	31·66	31·91	·25	+ 1

IRELAND.

XX.	Cork	Cork (Queen's College)	40·66	(41·28)	30·80	10·48	— 25
,,	Kerry	Valencia (Glanleam)	55·30	(55·90)	50·77	5·13	— 9
,,	,,	Killarney District Asylum	55·10	58·11	45·08	13·03	— 23
,,	Waterford	Waterford (Brook Lodge)	38·56	(39·30)	33·21	6·09	— 15
,,	,,	Glenam [Clonmel]	40·89	42·17	34·51	7·66	— 18
,,	Clare	Broadford (Hurdlestown)	33·31	(33·50)	36·50	3·00	+ 9
,,	,,	Miltown Malbay	45·31	(44·50)	47·78	3·28	+ 7
XXI.	Wexford	Enniscorthy (Ballyhyland)	41·45	42·87	34·80	8·07	— 19
,,	,,	Gorey (Courtown House)	33·62	35·72	27·59	8·13	— 23
,,	Wicklow	Bray (Fassaroe)	39·68	40·55	31·78	8·77	— 22
,,	Carlow	Carlow (Browne's Hill)	33·65	34·44	27·75	6·69	— 19
,,	King's Co.	Birr Castle	32·96	33·06	32·64	·42	— 1
,,	Dublin	Dublin (FitzWilliam Square)	27·30	27·75	22·81	4·94	— 18
,,	Meath	Moynalty (Westland)	36·67	(37·40)	36·01	1·39	— 4
,,	Westmeath	Mullingar (Belvedere)	36·50	(36·50)	34·69	1·81	— 5
,,	Louth	Greenore	31·33	32·10	29·30	2·80	— 9
XXII.	Galway	Ahascragh (Clonbrock)	39·32	(40·40)	37·94	2·46	— 6
,,	,,	Clifden (Kylemore House)	79·82	80·20	71·10	9·10	— 11
,,	,,	Tuam (Gardenfield)	42·18	(41·90)	43·16	1·26	+ 3
,,	Mayo	Crossmolina (Enniscoe)	52·60	(50·50)	51·11	·61	+ 1
,,	Sligo	Collooney (Markree Obs.)	41·27	41·83	44·57	2·74	+ 7
XXIII.	Armagh	Armagh Observatory	30·97	31·36	30·14	1·22	— 4
,,	Down	Seaforde	36·27	38·61	34·23	4·38	— 11
,,	,,	Banbridge (Milltown)	30·23	31·47	31·88	·41	+ 1
,,	,,	Donaghadee	30·39	(32·00)	28·60	3·40	— 11
,,	Antrim	Belfast (Queen's College)	32·00	33·23	36·15	2·92	+ 9
,,	,,	Ballymena (Harryville)	39·52	(39·60)	43·11	3·51	+ 9
,,	,,	Bushmills (Dundarave)	36·70	(38·20)	36·44	1·76	— 5
,,	Londonderry	Garvagh (Moneydig)	37·95	39·16	37·39	1·77	— 5
,,	,,	Londonderry (Creggan Res.)	41·36	(41·20)	45·35	4·15	+ 10
,,	Tyrone	Stewartstown (The Square)	36·14	(35·10)	37·29	2·19	+ 6
,,	,,	Omagh (Edenfel)	39·66	37·85	42·40	4·55	+ 12
,,	Donegal	Buncrana (Rockfort)	40·24	(41·50)	42·03	·53	+ 1

EXTREMES OF RAINFALL IN 1906.

Greatest Rainfall, at Glaslyn, Snowdon, Carnarvonshire... 205·30 in.

Least Rainfall, at Boyton Rectory, Suffolk..... 19·11 ,,

ENGLAND.

Greatest.			Least.		
Div.		in.	Div.		in.
X.	The Stye, C	177·70	IV.	Boyton Rectory	19·11
,,	Sprinkling Tarn	142·70	VII.	South Scarle Vicarage	19·32
,,	Styehead Tarn	141·65	III.	Huntingdon	19·53
,,	Borrowdale (Seathwaite)...	130·66	IV.	Clacton-on-Sea	19·64
,,	Mickleden	128·73	,,	Shoeburyness	19·95
,,	Little Langdale (Fell Foot)	116·35	,,	Foulness (The Lodge).....	19·99

WALES.

Greatest.			Least.		
Div.		in.	Div.		in.
XI.	Snowdon (Glaslyn)	205·30	XI.	Bodfari (Nantlys)	24·38
,,	,, (Llydaw)	182·30	,,	St. Asaph (St. Beuno's Coll.)	25·58
,,	Llanberis (Pen-y-pass).....	133·70	,,	Bodfari (Henblas)	25·63
,,	Eigiau, Upper	125·55	,,	Colwyn Bay (East Parade)..	25·65
,,	Beddgelert (Moel Hebog)..	118·50	,,	Prestatyn (Edlestone House)	25·75
,,	Eigiau Lake	116·90	,,	Flint (Highfield, Northop)..	25·93

SCOTLAND.

Greatest.			Least.		
Div.		in.	Div.		in.
XVIII.	Glencarron (Glenuaig)	162·00	XVI.	Dundee Harbour.....	23·62
,,	Glenquoich.....	128·87	,,	Kilmany(MountquhanieHo.)	25·81
XV.	Ben Lomond	111·70	,,	Arbroath (Waterworks).....	25·84
XVIII.	Loch Shiel (Glenfinnan) ...	104·51	,,	Dundee (Eastern Necropolis)	26·65
,,	Glencarron	101·53	,,	,, (Dens Works)	26·65
XV.	Morvern (Kingairloch)	100·36	,,	Montrose(SunnysideAsylum)	27·28

IRELAND.

Greatest.			Least.		
Div.		in.	Div.		in.
XX.	Gap of Dunloe (Garrymeen)	82·10	XXI.	Kingstown (Harbour Yard)..	20·39
XXII.	Clifden (Kylemore House) ..	71·10	,,	,, (People's Park)..	20·84
XXIII.	Lough Eske Castle	68·74	,,	Dublin (Trinity College) ...	21·55
,,	Killybegs (White House) ...	67·68	,,	Killiney (Palermo)	21·99
XX.	Kenmare (Dunkerron)	64·61	,,	,, (Cloneevin)	22·34
,,	,, (Dereen)	60·90	,,	Ballybrack (Streamville) ...	22·62

NOTE.

Second gauges, and those at Lighthouses, are excluded from the above, as also are those to which a ? has been attached in the General Table. In selecting the minima, records are only used from gauges the receiving surface of which is known to be less than 3 ft. above the ground.

GENERAL TABLE

OF

TOTAL RAINFALL IN 1906,

AT MORE THAN

4000 STATIONS

IN THE

BRITISH ISLES.

EXPLANATORY NOTE.

The divisions in the General Table are the same as those adopted by the Registrars General of England and Scotland, and the counties follow the same order as in the reports of those officers; but reference to the stations is facilitated by sub-dividing some of the larger counties. The stations in each county or sub-division are arranged nearly in the order of their latitude from South to North.

For convenience in finding the locality of any gauge, the first name is almost always that of a place given in *Bradshaw*, the *Post Office Guide*, or the *Clergy List*; the second name is generally added to fix the site of Observation more closely; but, in a very few instances, when in [ ] instead of ( ), it is that of the nearest town in an adjoining county; *e.g.*, "Haslemere (Weycombe)" means Weycombe near Haslemere, both in one county; but "Geldeston [Beccles]" means Geldeston near Beccles, which is in another county.

In the column headed "diameter," figures in old-style type indicate the length of the sides of rectangular mouthed gauges. These measurements are all in inches.

The letter D denotes that a copy of the daily record has been received, that it is complete for the year, and that the printed amount is the correct total of the daily entries. The letter M indicates that the gauge is read only on the first of each month. (R) denotes that the gauge used is a self-recording instrument.

A few entries of total rain will be found in italics—indicating that the values have been corrected, *e.g.*, when monthly gauges are read on a date other than the 1st, or when snow is neglected.

A dagger (†) denotes that the rain gauge has been visited and examined by the Editor or his assistants, and a section (§) that it has not been seen by the Editor, but is subject to inspection by the Meteorological Office or by one of the Meteorological Societies. A note of interrogation (?) implies doubt, not necessarily error; the absence of information is indicated by ...

In the column of altitudes the sign ⊼ means that a series of levels has been taken from the gauge to an Ordnance Survey bench mark; T, that the height has been ascertained approximately from the same source; L, that levels have been taken from the gauge to the sea, or to some non-official datum; and B, that the altitude has been taken by the barometer.

COUNTY INDEX TO GENERAL TABLE.

ENGLAND AND WALES.

DIVISION I.—LONDON.

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
NORTH OF THE THAMES.						
D† KENSINGTON (V. & A. Museum).	W. I. Last, Esq., C.E..	8	0 6	27 ⅄	22·41	164
D ,, (Holland House) ...	Mr. C. Dixon	5	4 6	68 ⅄	22·85	153
D ,, (Addison Gardens).	G. H. M. Whish, Esq..	5	1 1	23	22·36	153
D† ,, (Campden Hill) ...	Met. Water Board.....	8	4 10	130 ⅄	22·31	147
D† ,, (Grand Junction W.W.)	,, ,, ,, ...	8	1 0	142 ⅄	24·18	162
FULHAM,						
D† W. Kensington (Edith Rd.)	G. von U. Searle, Esq..	5	0 10	16	22·77	156
D CHELSEA (Pumping Station) ...	M Fitzmaurice Esq CMG	8	1 0	19 ⅄	22·60	152
D ,, (Physic Garden)	W. Hales, Esq.	5	1 0	20	22·35	161
D ,, (St. Luke's Gardens)...	T. W. E. Higgens Esq. CE	5	1 0	25 ⅄	23·81	158
D WESTMINSTER (Winchester St.).	Mr. G. T. Osborn	5	6 6	56	23·98	150
,, (,, ,,).	,, ,, ...	5	6 6	56	23·62	...
,, (Chester Square)	C. Lethbridge, Esq. ...	5	10 0	35	23·00	183
D† ,, (Buckingham Palace)	Major Hussey.....	5	8 6	35 ?	23·41	153
D ,, (Kensington Gardens)	late C. Jordan, Esq. I.S.O.	8	1 10	...	21·11	145
§ ,, (St. James's Park) ...	Meteorological Office ..	8	1 0	54	22·15	151
,, (Spring Gardens)...(1)	M Fitzmaurice Esq CMG	8	66 4	95 ⅄	20·79	...
,, (,, ,,)...(2)	,, ,, ,,	12	65 11	95 ⅄	19·89	...
,, (,, ,,)...(3)	,, ,, ,,	8	6 0	35 ⅄	21·91	...
D ,, (Strand)	J. J. Steward, Esq. ...	5	40 0	80	22·74	148
ST. MARYLEBONE						
D (Northwick Terrace)	E. Heron Allen, Esq...	5	0 5	130	23·78	169
D§ ,, Regent's Pk (R Botanic Gdns)	J. B. Sowerby, Esq. ...	8	0 8	126 ⅄	24·48	146
,, (Hamilton Terrace)	Miss Cobb	5	0 11	125 T	23·83	162
D† HAMPSTEAD (Barrow Hill Res.)..	Met. Water Board.....	5	3 4	197 ⅄	22·14	166
D ,, (Burrard Road).....	W. Godden, Esq.	5	1 6	261 B	27·56	172
,, (Frognal)	E. L. Hawke, Esq. ...	5	1 0	212	26·43	...
D† ,, (Kidderpore Res.)...	Met. Water Board.....	5	1 9	323 ⅄	24·92	161
D ,, (Bathing Pond).....	Mr. W. Pikesley	5	1 0	240 ?	20·59?	186

DIVISION I.—LONDON.—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
NORTH OF THE THAMES-(*con.*)						
HAMPSTEAD (Squire's Mount) ...	The Misses Field	5	1 0	388 ⅄	*23·06*	...
D†ST. PANCRAS (Camden Square)...	Dr. H. R. Mill	8	0 9	111 ⅄	24·26	163
† ,, (,, ,,) *weekly*	,, ,, ,, ...	5	1 2	111 ⅄	24·14	...
D† ,, (,, ,,)*Snow g.*	,, ,, ,, ...	8	3 5	113 ⅄	22·88	142
† ,, (,, ,,) *float g.*	,, ,, ,, ...	8	0 11	111 ⅄	23·63	...
,, (St.Augustine'sRd.)	A. E. Payne, Esq.....	5	0 6	150	24·44	163
STOKE NEWINGTON						
D (NewRiverFilterBeds)	Met. Water Board.....	5	1 0	101 ⅄	22·92	145
D ,, ,, (,, ,, Reservoirs)	,, ,, ,, ...	5	4 0	105 ⅄	23·05	159
D HACKNEY (Clapton Pond).. .. (R)	NormanScorgie,Esq.CE	8	2 6	70 ⅄	23·36	138
D†HOLBORN (Stone Yard).....	Mr. E. F. Spurrell.....	5	12 0	89 ⅄	22·68	136
D FINSBURY (New River Head) ...	Met. Water Board.....	5	3 8	100	20·88	147
D CITY OF LONDON (Guildhall) ...	F. Sumner, Esq., C.E..	8	51 0	98 T	23·23	152
D ,, ,, ,, (,,) ...	,, ,, ,,	8	2 6	49 T	21·18	153
D SHOREDITCH (City Road)	J. Bigwood, Esq.	5	1 2	...	24·31	150
§ ,, (Old Street)	RoyalMeteorologicalSoc	5	1 0	70 T	22·14	152
D STEPNEY (Mile End).....	J. Metson, Esq.	5	14 0	50	24·13	140
† ,, (NatureStudyMuseum)	Miss K. M. Hall.....	5	1 0	35 ⅄	20·70?	..
D POPLAR (Isle of Dogs)	M FitzmauriceEsqCMG	8	1 0	15 ⅄	23·09	153
D ,, (Old Ford)	Met. Water Board.....	8	0 9	19 ⅄	21·67	141
D ,, (,, ,, Penstocks)...	M FitzmauriceEsqCMG	8	1 0	35 ⅄	22·19	139
WOOLWICH (N.Woolwich Pumpg. Sta.)	,, ,, ,,	8	0 8½	12	21·99	...
D ,, (Barking Outfall) ...	,, ,, ,,	8	0 6	6 ⅄	22·15	158
SOUTH OF THE THAMES.						
BERMONDSEY (SouthwarkPk.)(R)	Lt.-Col. J. J. Sexby ...	5	10 0	19 ⅄	20·06	...
LAMBETH,						
D§ WestNorwood(ThornlawRd.)	W. Marriott, Esq.....	5	1 0	221	24·42	163
D ,, (Brockwell Park)	Lt.-Col. J. J. Sexby ...	8	1 3	140 ⅄	27·65	141
D BATTERSEA (Battersea Park) ...	,, ,, ,, ...	5	9 8	23	24·35	147
D ,, (Water Works)	Met. Water Board.....	5	3 6	21	19·50	129
D ,, Nine Elms (Heathwall)	M FitzmauriceEsqCMG	8	37 0	51 ⅄	19·10	138
WANDSWORTH,						
D Streatham (SouthwarkW.W.)	Met. Water Board.....	5	4 1	120	22·12	142
D ,, Clapham Park (Atkins Road)	D. W. Horner, Esq. ...	5	1 0	120 T	26·05	145
,, (Putney Heath)	Met. Water Board.....	5	1 0	180 ⅄	24·49	169
,, Wimbledon Pk. (Woodhouse)	Sir A. E. Bateman ...	5	1 1	150	26·79	140
D§ ,, Wandsworth Com.(Patten Rd)	F. C. Bayard, Esq. ...	5	1 0	100	24·21	161
D ,, Clapham Com.(MacaulayRd.)	Miss A. H. Boyson.....	5	1 0	75	24·75	132
,, ,, ,, (The Chase) ...	H. N. Prentice, Esq....	5	1 5	70	19·45?	...
D CAMBERWELL(DulwichWoodPk)	H. V. Caldicott, Esq...	5	1 2	276	25·51	161
D ,, E. Dulwich(GroveVale) (R)	F. C. Bayard, Esq. ...	8	2 2	58	18·50	147
D ,, Nunhead(SouthwarkW.W.)	Met. Water Board.....	5	4 0	176	20·78	146
D DEPTFORD (Telegraph Hill).....	Lt.-Col. J. J. Sexby ...	5	9 6	135	23·92	141
D† ,, (Kent Water Works)	Met. Water Board.....	5	1 0	20	23·50	156
GREENWICH						
D† (DeptfordPumpingStation)	M FitzmauriceEsqCMG	10	4 0	15	26·79	135
D† ,, (Royal Observatory)	Sir W. Christie, K.C.B.	8	0 5	155 T	24·74	161

DIVISION I.—LONDON—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground		Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft.	in.	feet.	inches.	
SOUTH OF THE THAMES-(*con.*)							
LEWISHAM,							
D Forest Hill (Dartmouth Rd.)	F. C. Bayard, Esq. ...	5	1	0	220	23·64	139
D ,, (,, ,, Cemetery)...(R)	,, ,, ,, ...	8	2	2	160	18·20	162
D ,, ,, ,, (Barr Beacon)...	Met. Water Board.....	5	1	0	344 ⅄	24·48	166
D WOOLWICH, Eltham (High St.).	,, ,, ,, ...	5	1	0	245	22·60	150

DIVISION II.—SOUTH EASTERN COUNTIES.

WEST SURREY.							
D Haslemere (Courts Hill)	J. W. Penfold, Esq. ...	8	4	0	481 ⅄	37·08	172
D ,, (Jesses) .....*Snowdon*	A. F. Parbury, Esq....	5	1	0	572 ⅄	36·64	182
D ,, (Hazelhurst)	T. P. Newman, Esq....	5	1	0	550 B	37·53	184
,, (Grayswood Hill) ...	B. E. C. Chambers, Esq.	5	1	0	580 ⅄	33·08	...
Dunsfold (Durfold)	Miss Billiter	5	1	0	225 T	29·15	...
Chiddingfold (Pickhurst)	J. Ryder, Esq.	5	1	0	250	30·38	...
D ,, (Beaconscroft).....	the late Admiral Maclear	5	1	0	230 ⅄	30·95	190
Hindhead (Stoatley Hall).....	H. Simmons, Esq.....	5	1	0	800	31·20	...
Dunsfold Rectory	Rev. W. H. Winn.....	5	1	0	170	28·73	...
Haslemere (Weycombe)	J. Buckton, Esq.	5	1	0	562 ⅄	34·07	...
D Hambledon (Matteryes)	J. Borrowman, Esq. ...	5	4	6	300	28·46	171
,, (Mervel Hill)	J. Franklin-Adams, Esq	8	1	0	420	26·27	...
D Witley (Fernside)	Mrs. J. H. Foster	5	1	0	350 T	31·60	178
,, Manor	W. J. Maitland, Esq...	5	1	2	...	28·35?	...
Hascombe Rectory.....	late Rev Canon Musgrave	8	1	0	450 T	29·01	...
D Cranleigh Common (Homefield Cott.)	A. F. Jones, Esq.	5	1	2	175 T	28·17	171
,, ,, ...	W. Welch, Esq.....	5	1	0	182 ⅄	28·37	...
§ ,, (County School)	Royal Meteorological Soc	5	1	0	232 ⅄	27·64	183
D ,, (Winterfold)	Mr. R. Turvey	8	3	6	603 T	31·12	164
D Ewhurst (Downhurst Lodge) ...	Mr. W. Bradfield	5	1	0	350	30·27	179
,, (Malquoits).....	W. Webb, Esq.....	5	1	6	400	31·28	176
D ,, (Coneyhurst)	Miss Ewart.....	8	1	0	561 ⅄	32·05	185
D ,, (Heathside)	J. Sparkes, Esq.	5	1	6	600 ⅄	31·52	159
,, (Woolpit)	Mr. H. W. Perrin.....	5	1	6	600	30·04	...
Abinger (Feldemore)	E. Waterhouse, Esq....	5	3	6	505 T	30·20	...
D ,, (Joldwynds, Holmbury)	Mr. F. Cornish	5	1	0	550	32·24	164
D Godalming (Charterhouse)	O. H. Latter, Esq.....	5	1	0	310 ⅄	29·81	182
D Wonersh (Shamley Green)	Mr. A. Nash..... ...	5	1	0	400	29·31	166
D Tilford (Charleshill)	Mrs. Oliver	5	1	0	230 B	27·84	169
Godalming (Tilthams)	Col. A. C. Bigg-Wither	5	1	0	130 ⅄	26·56	...
D Abinger Rectory	Miss Brodie Hall	5	1	0	381	31·25	151
D ,, Hall	Lord Farrer	8	2	0	320 T	31·90	*162*
D Farnham (Crooksbury Ridges)...	F. R. Walters, Esq. M.D.	5	1	4	440 ⅄	26·40	175
D ,, (The Bourne Vicarage)	Rev. T. W. Sidebotham	5	1	0	308 T	27·92	179
D ,, (Dippen Hall Cottage).	M. Birkbeck, Esq.....	5	1	0	345 T	29·17	203
D ,, Castle	Mr. H. Dowding	8	1	0	330	28·58	141
D ,, (Short Heath Lodge)...	Col. G. Chrystie.....	5	1	0	365 T	29·06	209

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
WEST SURREY—(*con.*)						
D Farnham (Great Down, Seale) ...	Mrs. Kitchin	12	1 0	470 T	25·41	134
D Guildford (Piccard's Rough) ...	H.A.Powell, Esq., M.D.	5	6 0	350 T	25·36	146
D ,, (Briarfield)	Miss M. E. Swaine.....	5	3 0	300 T	29·36	161
D ,, (Newlands Corner) ...	Mr. H. Tann	5	1 6	550 ?	27·76	174
D ,, (Hillside)	Miss H. S. Pitman.....	5	1 0	250 T	28·93	203
D ,, (Kair, Epsom Road)...	the late Miss Johnston.	5	1 0	...	28·64	195
D ,, (Maori Road)	J. H. Billing, Esq. ...	5	1 0	230	27·75	174
D ,, (Cross Lanes)	F. Smallpiece, Esq.....	5	0 8	200	25·96	164
D ,, (Craigie, Merrow) ...	Miss Lomer.....	5	0 9	250 T	25·55	159
D ,, (Burpham)	W. H. Burbidge, Esq..	5	0 8	...	27·49	163
D ,, (Temple Court)	Arthur H. Bowles, Esq.	8	4 0	264 T	26·24	153
High Clandon	F. B. Eastwood, Esq...	5	0 6	500 T	26·64	...
Horsley Towers	The Earl of Lovelace...	8	1 2	285 ⅄	25·38	...
D ,, (Woodcote Lodge)	Sir H.E. Roscoe, F.R.S.	5	0 6	600	31·16	163
§Pirbright Camp.....	Capt. E. R. Taylor ...	5	1 0	201 T	*25·68*	...
D Frimley Green (Water Works)..	F. W. Talbot, Esq. ...	5	8 0	220 ⅄	21·93	158
D ,, ,, (Ridgemount) ...	C. C. Haviland, Esq....	5	0 9	350	27·43	195
D Woking (The Grange)	Rev. F. Wilson	5	0 8	78 T	26·13	184
D ,, (Northwood)	S.P.Williams, Esq. C.E.	5	1 3	120	23·21	138
D Pyrford (Pyrford Croft)	H.W.Page Phillips, Esq.	5	1 6	100 ?	25·12	169
Horsell (Lindisaye)	H. Horncastle, Esq. ...	5	4 2	120 T	23·78	141
,, (,,)	,, ,, ,, ...	5	0 9	120 T	23·82	...
,, (Kettlewell Hill)	Claude Marzetti, Esq...	5	0 9	115	23·50	...
§Wisley	Meteorological Office...	8	1 0	150	23·39	182
D Camberley (Portesbery Hill) ...	R. L. Atkinson, Esq...	5	1 1	...	26·71	179
D Chobham (The Elms)	Miss E. S. Brown	5	2 0	80	27·06	141
D Chertsey (Ottershaw)	R. H. Otter, Esq.	5	1 0	200 T	24·15	167
,, (Long Cross)	F. A. Baker, Esq.....	5	3 0	200 T	22·34	...
Windlesham (Westwood)	Col. G. A. Curzon	5	0 10	300 T	24·70	...
D†Sunningdale (The Camp)	Lady Hooker	5	1 2	252	25·06	135
D Weybridge (Field Place)	G. A. Yool, Esq.....	5	1 0	118 ⅄	24·76	163
,, (,, ,,) ..... M	,, ,, ,, ...	5	1 0	109 ⅄	24·59	...
,, (Heath Field).....	Miss A. T. Gardiner ...	5	1 0	100 T	25·21	163
D ,, (West Oaks)	A. Whittet, Esq.	5	1 0	36 T	23·49	161
,, (Station Road)	H. K. G. Rogers, Esq..	5	1 1	85	25·29	...
D ,, (Lyncroft)	Maj.-Gen.J P Battersby	5	0 10	70	24·29	158
D Virginia Water (Lyne Grove) ...	the late T. J. Hare, Esq.	5	0 11	150 T	24·77	177
D ,, ,, (St.Ann'sHeath)	Rev. J. Peck	8	1 1	120	23·24	158
EAST SURREY.						
D Lyden Croft [Edenbridge]	Surg.-Gen. C. Planck ..	8	1 0	212 ⅄	32·03	163
†Dorking (Fir Tor)	F. Taylor, Esq.	5	1 0	300 B	29·99	...
D† ,, (Rose Hill)	H. Belfield, Esq.	5	1 3	250	28·59	168
D† ,, (High Street)	Mr. J. Beetham Wilson	5	0 7	235 T	30·04	162
,, (Denbies).....	Mr. J. Beesley	5	0 9	610 T	30·06	157
D† ,, (Pixham Firs).....	J. Croft Deverell, Esq..	8	0 6	150 ?	28·15	163
D Brockham (North Lodge)	H. R. Kempe, Esq. ...	8	0 9	160 T	21·75?	134
D Reigate (Hartswood).....	R. W. Clutton, Esq....	5	1 0	174	28·25	189

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft.	in.	feet.	inches.	
EAST SURREY—(*con.*)							
D South Nutfield (Hale Edge).....	F. C. Bayard, Esq.....	5	1	0	270	26·64	163
D Earlswood (Sewage Farm)	F. T. Clayton, Esq., C.E.	5	1	0	196 ⅄	27·10	161
Reigate (Holmfels)	T. Jackson, Esq.	5	1	2	200 T	28·77	148
D ,, (Mill Lawn).....	G. Weston, Esq.	5	1	0	330 T	29·21	159
,, (Wray Lodge)	A. Rosling, Esq.	8	1	0	316 T	30·97	170
,, (Northcote)	F. C. Pawle, Esq.	5	1	0	360	31·14	188
,, (Laglands)	J. Welch, Esq.	5	1	2	375 T	30·92	160
D Nutfield Priory	Mrs. Fielden	8	1	2	468 ⅄	27·88	191
,, ,, ...	Mr. J. Moffatt	8	1	2	331 T	29·44	187
D ,, (Holmesdale)	C. Trentham Maw, Esq.	8	3	0	500 T	27·01	178
D Blechingley House	Rev. Preb. A H S Barwell	5	1	0	550	29·34	167
D Betchworth (Sandhills).....	C. J. Whittington, Esq.	8	3	0	250 T	25·57	133
D ,, (The Holmes)	F. R. Rushton, Esq. ...	5	0	8	322 T	29·53	176
Reigate (Hatherlow Observatory)	S. T. Klein, Esq.....	5	0	9	375 ?	28·79	167
Dorking (High Ashurst)	Mr. G. Bond	5	3	0	550	*25·01*	...
D Merstham (Rockshaw)	F. C. Bayard, Esq. ...	5	1	0	475	31·37	148
D§ Upper Gatton.....	F. Druce, Esq.	5	1	0	601	31·51	178
D Headley (The Hurst)	F. C. Bayard, Esq. ...	5	1	3	450	27·81	143
D Caterham Reservoir	A. E. Cornewall-Walker, Esq.	5	1	0	705 ⅄	33·68	177
Leatherhead (Downside)	A. Tate, Esq.....	5	1	0	250	25·16	...
D Chaldon Rectory	F. C. Bayard, Esq. ...	5	1	0	542	32·11	150
D Chipstead (Shabden Park)	,, ,, ,, ...	5	1	0	550	31·38	174
D Caterham Asylum	Dr. P. E. Campbell ...	5	1	0	610 ⅄	31·74	176
D ,, Valley (Bradenhurst).	Henry Haes, Esq.	5	1	0	600 B	33·84	182
D Warlingham (The Larches)	Mrs. B. F. Harris	5	1	0	615	32·59	189
D§ ,, (Redvers Road) ...	R. H. Curtis, Esq.....	8	1	0	810 T	32·34	173
D ,, (Egremont)	H. Rogers, Esq.....	5	1	0	614 B	33·14	174
Kenley (Valley Road)	J. L. Boyson, Esq.....	5	1	2	280	27·67	161
D ,, (Place Fell)	F. C. Bayard, Esq. ...	5	1	0	300	30·90	166
D ,, (Hazelea)	Mrs. Carr Dyer	8	1	0	281 ⅄	28·85	177
D Ashtead (Hill Field).....	C. T. Howell, Esq.....	5	1	0	215	24·74	174
D ,, (D'Abernon Chase).....	Sir W. Vincent, Bart..	5	1	0	280 T	24·89	157
D Cobham (Hatchford)	Sir H. B. Samuelson, Bart	8	1	0	270	24·90	131
D Banstead (Burgh Heath Reservoir)	W Vaux Graham Esq CE	5	1	0	570 ⅄	26·85	164
,, (,, ,, ,,)M	,, ,, ,,	5	1	0	570 ⅄	27·03	...
D ,, (The Hall)	F. C. Bayard, Esq. ...	8	1	0	480	28·57	139
D ,, (Benhilton)	,, ,, ,, ...	5	1	3	125	21·31?	161
Chelsham (Fairchildes)	A. S. Daniell, Esq. ...	8	1	0	600 T	30·73	...
,, (,,)	Mr. G. Mansfield	5	0	10	600 T	30·99	...
D Epsom (Ashley Road)	Spencer C. Russell, Esq.	5	1	0	161 T	24·70	194
,, (Water Works).....	W Vaux Graham Esq CE	5	3	1	149 ⅄	23·51	...
D Sanderstead (Red House).....	F. C. Bayard, Esq. ...	5	1	0	320	28·34	168
D Weybridge (Burcote)	C. Sanger, Esq.	5	0	9	120	23·19	148
D Purley (Riddlesdown Road).....	J. Edmund Clark, Esq.	5	1	0	365 T	30·37	186
D ,, (Pumping Station)	A. E. Cornewall-Walker, Esq.	5	1	0	215 ⅄	27·82	159
D ,, (Peaks Hill)	T. F. Parkinson, Esq...	8	1	0	360 T	33·51	151
D Esher (Sewage Works)	F. C. Bayard, Esq. ...	5	1	0	42 ⅄	20·34?	141
South Croydon (Bramley Hill)...	H. R. Wise, Esq.	5	1	0	296	26·65	155

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
EAST SURREY—(*con.*)						
D South Croydon (Avondale Road)	Dr. G. J. Hinde, F.R.S.	5	1 0	225 T	27·84	183
D Addington (Hares Bank).....	F. C. Bayard, Esq. ...	8	1 0	331 ⅄	29·03	167
D ,, Hills Reservoir.....	,, ,, ,, ...	8	0 9	473 ⅄	27·54	197
D Wallington (Cotswold).....	,, ,, ,, ...	5	4 1	140 ⅄	25·36	166
D ,, (,,).....	,, ,, ,, ...	8	1 0	140 ⅄	25·26	171
D Sutton (Sewage Works)	C. C. Smith, Esq., C.E.	8	1 0	94 ⅄	22·72	162
D Carshalton (Sewage Works).....	Baldwin Latham Esq CE	5	1 0	118 ⅄	22·34	161
D§Beddington (Riverside).....	F. C. Bayard, Esq. ...	5	1 0	120	25·03	157
D†Croydon (Duppas House).....	Baldwin Latham Esq CE	5	1 0	158 ⅄	25·82	179
D ,, (Waddon New Road)..	G. Corden, Esq.....	5	1 0	146	26·51	157
D ,, (Brimstone Sew. Works)	F. C. Bayard, Esq. ...	5	1 0	130 ⅄	23·99	138
D ,, (Woburn Road)	A. Malden, Esq.....	5	1 6	182	24·63	152
D ,, (Park Hill Rise).....	H. F. Parsons, Esq., M.D.	5	1 3	240	23·86	153
Worcester Park (Parkside)	A. Vaughan Pott, Esq.	5	1 0	80	21·43	...
D ,, ,, (Manor Lodge).	F. C. Bayard, Esq. ...	5	1 9	120	22·49	152
D Beddington Corner (Millgreen Rd)	,, ,, ,, ...	5	5 0	77	22·60	150
D Thames Ditton (Weston Green).	Mr. H. T. Potter	8	1 0	35 T	24·67	164
D†Surbiton (Seething Wells)	Met. Water Board.....	5	0 10	34 ⅄	22·85	159
D ,, (Vronvelin)	F. J. Barclay, Esq.....	5	1 0	50	23·74	166
,, (Tandridge House) ...	Charles Price, Esq. ...	5	0 10	...	23·25	149
D South Norwood (Woodvale).....	F. C. Bayard, Esq. ...	5	1 0	216	24·26	157
D†West Molesey.....	Met. Water Board.....	5	1 0	32 ⅄	23·64	160
D New Malden Sewage Works ...	F. C. Bayard, Esq.....	5	1 0	45	20·80	139
D ,, ,, (Edenfield).....	W. J. Carter, Esq.....	5	1 0	40 T	22·84	162
D Kingston (County Hall)	E. Underwood, Esq. ...	5	0 9	31 T	24·63	144
D ,, Sewage Works	F. C. Bayard, Esq. ...	5	1 0	25	26·99	161
D ,, (Union Street)	Mr. T. Davis	8	3 0	26	22·93	141
Norwood (Auckland Road)	Miss J. Cooper	5	1 5	230	22·26	147
D Anerley (Town Hall).....	H. W. Longdin, Esq. C.E.	5	1 6	120 T	23·46	152
D Wimbledon (Raynes Park)	C. H. Cooper, Esq., C.E.	5	1 0	50 ⅄	23·02	151
D ,, (Kingston Road) ...	H. A. Marshall, Esq....	5	1 0	54 ⅄	24·30	157
D ,, Park	S. Single, Esq.	5	1 0	150	25·12	152
D ,, (Sewage Works).....	C. H. Cooper, Esq., C.E.	5	1 0	55 ⅄	21·97	142
D ,, (The Downs).....	F. C. Bayard, Esq.....	5	1 1	162 ⅄	25·41	165
,, Common (The Priory)	H. J. Hunt, Esq.	5	0 6	172	24·48	...
D Richmond (The Terrace)	F. C. Bayard, Esq. ...	8	1 6	109	21·76	150
,, (The Old Palace).....	Rev. A. Welsh Owen...	8	0 9	...	23·31	...
D† ,, (Kew Observatory) ...	Dr. C. Chree, F.R.S. ...	11	1 9	19 ⅄	23·68	161
D Kew (Kew Gardens Road)	Dr. L. Burrell	5	1 2	19	24·91	169
WEST KENT.						
D Hawkhurst.....	F. Ross Thomson, Esq.	5	2 0	200	30·68	147
D ,, (Sandhurst Rectory)	Rev. G. Ridout	5	1 3	208 ⅄	32·13	163
Tenterden (Summerhill)	Mrs. Wilkin	5	1 0	150 ⅄	27·67	147
Benenden (Pullington)	Major H. Neve	5	1 0	330	30·55	183
D§Tenterden	J. Ellis Mace, Esq.....	8	1 5	190 ⅄	27·58	174
D§ ,, ... *Snowdon*	,, ,, ,, ...	8	1 5	190 ⅄	27·37	162
,, (West Cross)	J. Munn Mace, Esq. ...	5	1 0	150 T	27·92	139

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
WEST KENT—(*con.*)						
Tenterden (Ashbourne Mills) ...	A. Pinyon, Esq.	5	1 6	45	27·28	...
Woodchurch	Rev. A. Welch	5	5 0	107 T	30·28	...
Cranbrook (Swattenden)	Miss Appach	8	1 2	350 T	30·70	153
,, (Hartley)	G. Pile, Esq.	5	4 0	405 T	30·68	...
,,	,, ,,	5	1 0	290	33·03	179
Biddenden (Sandpit Wood)	J. Ellis Mace, Esq. ...	5	1 0	222 T	28·51	...
D High Halden Rectory	Rev. W. H. Rammell...	5	1 0	151 T	24·42	177
Goudhurst (Scotney Castle)	E. W. Hussey, Esq....	5	4 4	203 ⅄	28·72	...
D ,, Vicarage	Rev. J. S. Clarke	5	1 1	419 ⅄	24·45	170
D ,, (Maypole)	G. Parker Hinds, Esq..	8	1 8	412	29·96	153
D ,, (Gore Court)	J. A. Druce, Esq.	5	1 0	196	30·69	191
D Cranbrook (Camden Lodge)	Mr. A. Habbitts	5	1 0	276 T	29·91	155
D Horsmonden (Broad Ford House)	Mrs. Maude	5	1 0	96 ⅄	31·18	201
D Tunbridge Wells (Langton Green)	W. L. Sutton, Esq. ...	5	1 0	380	29·35	160
D§ ,, ,, (Bredbury) ...	F. G. Smart, Esq.	5	1 0	418 T	32·74	176
D ,, ,, (Courtlands)(R)	E. Weldon, Esq.	8	5 6	470 ⅄	27·81	148
D ,, ,, (Mt. Ephraim Ho.)	J. T. Bertram, Esq. ...	5	1 0	423 T	28·71	152
D† Speldhurst Rectory	Rev. D. D. MacKinnon	5	1 0	320 T	29·25	181
D† ,, (Etherton Hill)	E. W. Winton, Esq....	5	1 5	288 ⅄	31·06	157
D Tunbridge Wells (Pembury)	W. H. Maxwell, Esq C.E.	8	1 8	196 ⅄	28·07	156
Southborough	Rev. G. A. Robins	5	3 0	400 T	30·25	155
D Edenbridge (Falconhurst)	Rt. Hon. J. G. Talbot, MP	5	0 6	400	35·53	157
Tonbridge (Colebrooke)	W. A. Smith, Esq.	5	0 10	350 T	29·29	154
,, (,,) *Snowdon*	,, ,, ,,	5	1 0	350 T	28·50	154
D Edenbridge (Markbeech)	Rev. J. T. Pearse	5	1 0	320	30·54	157
Staplehurst (Pagehurst)	J. Norris, Esq.	5	1 4	310 ⅄	30·07	...
D Paddock Wood (Moatlands)	Edward Beanes, Esq...	5	2 9	130	29·65	179
Tonbridge (Penshurst Place) ...	Lord De Lisle	5	1 6	150 ?	30·83	...
D ,, (,, Park) ...	Mr. J. M. Sturgess ...	5	0 4	265 T	30·11	166
D ,, (Mabledon Park)	J. F. W. Deacon, Esq.	5	1 2	...	28·48	138
,, (Brooklands)	G. J. Kimmins, Esq....	5	0 6	120 ⅄	28·06	157
,, (Ingleside)	Arthur H. Neve, Esq..	5	0 11	160	28·19	171
D ,, (Beech Hurst)	W. C. Punnett, Esq....	5	1 6	102 ⅄	27·69	159
,, (,, ,,) *Snowdon*	,, ,, ,, ...	5	1 6	102 ⅄	27·54	159
,, (,, ,,) .....M	,, ,, ,, ...	8	4 0	105 ⅄	27·29	...
D Hadlow (Golden Green)	F. W. E. Shrivell, Esq.	5	1 0	100	25·59	175
D Edenbridge (Boons Park)	Major Boscawen	8	1 6	...	27·59	151
§Hildenborough (Hollanden Ho.).	Meteorological Office...	8	1 0	161	25·43	145
D Ulcombe Place	A. O. Walker, Esq. ...	5	1 0	350 T	25·74	160
D Maidstone (Linton Park)	Mr. C. Pratt	5	0 8	...	26·09	154
D ,, (Rumwood, Langley)	W. S. Forster, Esq. ...	5	1 9	354	25·86	164
D ,, (Lower Tovil)	Lawrence Green, Esq..	5	1 0	30 L	23·24	164
D ,, (W.W., Barming) ...	W. J. Ware, Esq., C.E.	8	1 0	30 ⅄	26·08	153
D ,, (Long Rede, ,,) ...	Rev. T. W. Carr	8	3 2	280 T	25·22	143
D† ,, (Brenchley Gardens)..	T. F. Bunting, Esq., C.E.	5	0 9	50	27·12	181
D† ,, (Borough Surveyor's Office)	,, ,, ,,	8	8 0	32 ⅄	27·24	174
D East Malling (Broadwater)	C. B. Mercer, Esq. ...	5	1 6	169	27·75	177
D West Malling (St. Leonards) ...	G. Phillips, Esq.	5	1 0	...	28·91	166

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
WEST KENT—(*con.*)						
D†Detling (The Croft)	R. Cooke, Esq.	5	1 2	330 T	29·94	187
Maidstone (Allington)	Messrs. G. Bunyard & Co.	5	1 6	150 B	25·88	...
D Aylesford (Preston Hall)	Mr. H. J. Knight	5	1 6	80	28·05	148
D Westerham (The Fishponds)	Met. Water Board	5	1 0	380	32·06	148
D ,, Hill Estate	,, ,, ,,	5	1 0	539	33·82	163
D†Sevenoaks (River Hill)	Lt.-Col. J. M. Rogers	8	4 0	535 ⅄	28·96	145
,, (Plaxtol)	H. Stonham, Esq.	5	3 0	300 T	27·76	135
,, (Bitchet Wood)	Admiral G.S. Bosanquet	5	1 0	580 ⅄	28·00	...
,, (Dartford Road)	W. W. Wagstaffe, Esq.	5	...	404 T	30·84	150
,, (The Rectory)	Rev. T. S. Curteis	5	1 0	497	32·44	...
D ,, (Seal)	A. F. Bowker, Esq., C.E.	5	1 3	319 ⅄	30·40	164
D ,, (Kemsing Pumping Sta.)	,, ,, ,,	5	1 0	292 ⅄	31·81	164
D ,, (Chevening Gardens)	Mr. C. Sutton	5	1 0	360	35·00	157
D Ightham (Belmont Lodge)	Burleigh D. Kilburn Esq	5	1 4	380	32·14	182
D†Knockholt (Kent Waterworks)	Met. Water Board	5	24 6	812	27·55	134
D† ,, (,, ,,)	,, ,, ,,	5	1 0	785	32·36	134
Otford (Beechy Lees)	Mr. R. Edwards	5	0 10	480	32·27	160
D Farnborough (Downe Lodge)	F. Lander Muirhead, Esq	5	0 8	555 T	33·49	166
D†Halstead Rectory	Rev. F. H. Deane	5	1 0	600 ?	34·83	221
Downe (The Rookery)	Hon. Evelyn Hubbard.	5	1 0	488	31·41	156
D West Wickham (Wickham Court)	F. C. Bayard, Esq.	5	1 2	300	29·21	143
D Hayes (Hayes Place)	,, ,, ,,	8	1 0	350	26·06	133
D†Orpington (Kent Waterworks)	Met. Water Board	5	1 0	220	27·94	147
Chatham (Luton W.W.)	W. Coles Finch, Esq.	5	3 0	88 ⅄	26·43	150
Meopham	Jesse Garratt, Esq.	5	1 1	290 ⅄	28·07	150
D Farningham	Rev. L. A. Williams	5	0 6	117	27·74	145
D Rochester (Knights Place)	J. Pye, Esq.	4	3 0	320	29·24	187
Strood Water Works	W. Banks, Esq., C.E.	5	3 0	112 ⅄	25·02	160
D Frindsbury (The Shrubbery)	Warwick Stunt, Esq.	5	1 6	150	25·10	136
,, (Manor Farm)	F. Baker, Esq.	5	1 0	100	24·36	...
Bromley Common (Elmfield)	Rev. J. P. Faunthorpe	5	0 9	240 ⅄	26·15	163
D Bickley (The High Field)	J. Batten, Esq.	5	1 2	295	26·48	152
D Bromley (The Palace)	F. C. Bayard, Esq.	5	1 0	187	25·74	155
,, (Lansdown Road)	C. A. Case, Esq.	5	1 0	220	23·61	...
D ,, (Kinnaird Avenue)	C. T. Drew, Esq.	8	2 0	300	24·02	164
Chislehurst (Foxbury)	H. F. Tiarks, Esq.	8	4 6	250	22·44	180
D ,, (Hawkwood)	F. C. Bayard, Esq.	5	1 0	300	24·72	153
D Gravesend (Thong)	C. H. Scriven, Esq.	5	1 0	255 B	26·40	171
D Frindsbury (Stonehouse)	E. W. Wood, Esq.	5	1 0	20	24·18	131
D Southfleet (Kent Waterworks)	Met. Water Board	5	1 0	82	24·32	170
D Wilmington (,, ,,)	,, ,, ,,	5	1 0	25	22·49	144
D Sidcup (Selborne Road)	M. Ll. Evans, Esq.	5	...	...	23·73	142
D ,, (Park Road)	S. A. Sharman, Esq.	5	1 0	230 B	24·50	173
D Beckenham (Wickham Road)	E. Scovell, Esq.	5	1 2	156 T	25·09	168
D Dartford (West Hill House)	F. C. Bayard, Esq.	5	1 3	100	24·01	141
Higham (Oakleigh)	C. Lake, Esq.	8	1 2	25	20·91	...
Greenhithe	Capt. D. Wilson-Barker	5	1 0	20 ?	19·32	141
,, (*H.M.S. Worcester*)	,, ,, ,,	5	...	36	15·55	131

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
WEST KENT—(*con.*)						
D Cooling (Broomy Farm)	Mr. J. Filmer	5	1 6	10	22·75	141
D Hoo St. Mary	H. Pye, Esq., Junr.	5	5 6	146 T	21·15	147
D Erith (Crossness)	M Fitzmaurice Esq CMG	14	0 6	16 ⅄	21·82	140
EAST KENT.						
§Dungeness	Meteorological Office	8	1 3	21	26·53	176
Brookland	G. Pile, Esq.	5	0 9	16 ?	25·94	...
D Hythe (Hillcrest Road)	J. B. Jordan, Esq.	5	1 0	190 T	28·23	176
D ,, (Sandling Park)	Lawrence Hardy Esq MP	8	1 0	268	30·41	166
D ,, (Hillhurst Farm)	G. F. Deedes, Esq.	5	1 6	280 T	29·97	178
D Sandgate	R.A. Skelton, Esq., C.E.	5	1 0	52 ⅄	27·86	160
D§Folkestone (Sanatorium)	M. Yunge Bateman, Esq.	5	1 0	102 ⅄	29·92	178
D ,, (Surrenden Road)	J. Duncan Walker, Esq.	5	1 0	160	28·92	166
D ,, (Radnor Park)	J. W. Stainer, Esq.	5	4 8	129 T	28·16	155
D ,, (,, ,,) (R)	A. E. Nichols, Esq., C.E.	8	6 2	127 ⅄	23·47?	163
D ,, (Cherry Gardens)	H. Turner, Esq.	5	1 6	230 ⅄	31·69	184
D Sellindge (Penmain)	F. H. Perkins, Esq.	5	1 1	200	29·91	199
Folkestone (Capel Lodge)	E. Norton, Esq., M.D.	5	1 0	470 T	29·43	171
D ,, (Lower Standen, Capel)	H. Turner, Esq.	5	2 11	250 ⅄	29·96	164
Hythe (Paddlesworth)	Mr. R. Dixon	8	1 0	612 ⅄	44·89	...
D Acrise Park	F. A. MacKinnon, Esq.	5	1 6	500 ⅄	37·06	153
D Ashford (Willesborough Rectory)	Rev. A. L. Brine	5	...	175	27·81	180
D Dover (Water Works)	H. E. Stilgoe, Esq., C.E.	5	1 6	200 ⅄	30·99	165
D Kearsney (Chilton Farm)	,, ,, ,,	5	1 6	127 ⅄	33·69	154
D Ashford (Beavor Green)	T. Nickalls, Esq.	5	1 0	155 T	28·45	168
Deal and Walmer W. W. M	A. Mantle, Esq.	12	1 0	110 ⅄	24·45	...
D ,, ,, ,, ,,	,, ,,	5	1 0	110 ⅄	24·62	171
D Wye (Bilting House)	W. W. Knight, Esq.	5	1 3	158	30·71	153
D Eastry	L. A. Fawssett, Esq.	5	0 10	85 T	25·84	166
D ,, (Great Walton)	W. V. Lister, Esq.	5	1 0	25 ⅄	23·86	154
D Sandwich (Upton House, Word)	W. Elwin Napier, Esq.	5	1 0	32	24·65	151
Wingham (Crockshard)	J. E. Elgar, Esq.	5	1 6	50 ?	24·75	...
,, (Margate W.W.)	Mr. W. R. Hosking	5	1 0	138 ⅄	24·79	152
D Selling (Luton)	F. I. Neame, Esq.	5	1 6	263 ⅄	27·34	152
D ,, (Harefield)	Sidney Neame, Esq.	5	4 6	219 B	29·22	172
D Sandwich (St. George's Golf Club)	W. Ryder Richardson Esq	6	1 1	3	22·32	151
D Littlebourne House	T. M. Patterson, Esq.	5	1 6	37	24·48	143
Canterbury (Irrigation Works)	C. Terry, Esq., C.E.	5	2 6	15 ⅄	22·63	139
,, (Medical Hall)	A. Lander, Esq.	5	...	40	23·15	...
D Sittingbourne (Sharsted Court)	A. J. Rayfield, Esq.	5	1 6	287 T	24·11	136?
Canterbury (St. Thomas' Hill)	J. Spillett, Esq.	5	1 0	230	26·58	...
Ospringe (Lorenden)	Walter C. Stunt, Esq.	5	1 2	180 B	26·51	...
Teynham (New Gardens)	J. F. Honeyball, Esq.	5	1 5	15	23·21	...
D Faversham (Uplees Marshes)	F. G. Palmer, Esq.	5	4 4	9 ⅄	18·91	154
D Ramsgate (West Cliff Villas)	T. N. Ritson, Esq., C.E.	6	1 0	124 T	21·37	147
Minster (Gas Works)	,, ,, ,,	6	1 0	60 T	20·61	...
D Broadstairs (Providence House)	Cecil Hamersley, Esq.	5	2 0	50 T	22·15	166

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
EAST KENT—(*con.*)						
Broadstairs	W. H. White, Esq.	...	...	...	22·41	...
Herne Bay (Eddington)	Miss Hawksworth	5	1 0	4 ?	22·14	...
,, ,, (Water Works)	G. J. Lavel, Esq.	5	0 6	122 T	20·51	...
D Reculver	Allington Collard, Esq.	5	5 2	27 T	18·83	149
D§St. Peter's	Rev. H. C. V. Snowden	5	0 9	140 ⅄	22·46	161
D Margate (Westlands)	J. Stokes, Esq.	5	1 0	55	20·42	173
Kingsgate (White Ness)	Mr. T. Tullett	5	3 6	98 L	21·75	144
†Sheppey (Old Rides, Eastchurch)	H. C. Warren, Esq.	5	2 0	40 T	23·13	...
WEST SUSSEX.						
§Bognor	Royal Meteorological Soc	8	1 0	15	27·58	173
,, (Lidsey Lodge)	H. Neale, Esq.	8	1 2	25	29·59	148
Littlehampton (Surrey House)	A. J. White, Esq.	5	1 8	20 T	27·68	...
D ,, (Dorset House)	G. H. Beecheno, Esq.	5	2 0	30	27·85	134
D Worthing (New Parade)	D. W. Horner, Esq.	5	18 2	25	25·90	152
D§ ,, (Corporation Obs.)	A.G.R.Cameron Esq MD	8	1 0	34	30·44	173
D West Thorney	H. Padwick, Esq.	5	1 0	23 T	27·38	131
D Arundel (Yapton)	Mr. G. Harrison	5	1 0	24 ⅄	28·42	143
D ,, (,, Drove Farm).	,, ,,	5	1 0	14 T	28·71	143
Angmering	Rev. J. B. Orme	5	0 9	44	29·28	...
D Tortington	Major J. A. Travers	5	1 0	25 T	30·61	155
D Chichester (Westgate Meadow)	G. A. Tyacke, Esq.	8	0 6	40	28·87	160
Arundel (Patching)	J. Drewitt, Esq.	5	1 0	180	33·14	156
D ,, (,,)	Mrs. Joad	5	0 10	130 T	33·30	177
D West Bourne [Emsworth]	Rev. L. B. Birkett	5	0 8	50 T	33·19	180
D Funtington	J. A. Greenwood, Esq.	5	1 0	95 T	30·88	159
D West Stoke Rectory	Rev. W. F. Shaw	5	1 0	176 T	33·90	150
Chichester (Goodwood Gardens)	Mr. F. Brock	5	1 3	200 ?	34·98	168
D Steyning	Col. Ingram	5	1 0	80 T	36·91	155
,, (Crescent Road)	Mr. H. J. Hide	5	1 0	80 T	35·42	130
D Chichester (Watergate)	W. M. Christy, Esq.	5	1 0	236 T	38·88	188
,, (West Dean Park)	Mr. W. H. Smith	10	1 6	190	41·22	135
,, (Chilgrove)	J. W. Woods, Esq.	5	0 6	284 T	39·24	...
Sutton (Coldharbour)	Mr. J. Campbell	5	2 0	...	30·97	...
Midhurst (Linch Farm, Bepton)	G. Eames, Esq.	5	0 8	160 T	38·24	146
,, (Fairfield, Bepton)	Major W. A. Chauncy	5	0 8	154 ⅄	33·71	140
D ,, (Oakhurst)	Miss Jebb	5	1 0	200	33·29	130
D Compton [Petersfield]	Rev. H. M. Langdale	5	1 0	255 ⅄	38·99	180
Petworth Park	Mr. E. W. Pull	5	1 0	182 T	34·45	149
Cowfold (Maple Bank)	Mr. S. Ford	5	1 6	373	28·86	...
Midhurst (Lodsworth)	Lt.-Col. E.O.Hollist, RA	8	1 3	220	28·29	...
D ,, (Borden Wood)	E. G. Lamb, Esq., M.P.	8	1 0	260 T	35·59	176
,, (Hollycombe)	J. C. Hawkshaw, Esq.	8	6 6	550	37·20	...
Billingshurst (Hawkhurst Court)	B. de F. Osmaston, Esq.	5	1 6	120	28·20	...
D Horsham (Denne Park)	Mr. H. Harris	5	4 0	246 T	30·50	149
D Slinfold (Rapkyns)	W. Duncan Knight, Esq.	5	1 0	170	27·10	141
Fernhurst (Blackdown House)	F. Philipson Stow, Esq.	5	1 10	488 T	31·34	...
§Horsham (Christ's Hospital)	Royal Meteorological Soc	5	1 0	161	27·10	158

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
WEST SUSSEX—(*con.*)						
D Horsham (Selehurst)	W. E. Hubbard, Esq.	5	1 0	305	33·12	174
† ,, (Manor House)	H. Padwick, Esq.	8	0 10	140 T	30·74	152
D† ,, (Richmond Road)	M. L. Craven, Esq.	5	1 2	170	32·46	177
D ,, (Leonardslee)	Mr. W. A. Cook	8	1 0	365	29·84	168
D† ,, (Wimblehurst)	late Miss E. M. Allcard	5	1 0	195 T	30·56	176
Lynchmere (Shottermill)	Rev. C. Holland	5	4 0	450	37·92	...
EAST SUSSEX.						
†Beachy Head	Miss Brodie Hall	5	1 0	515 T	23·32	...
†Eastbourne (Wilmington Square)	Meteorological Office	8	0 6	39	32·18	183
D§ ,, (Osborne House)	Miss Hood	5	1 0	12 T	32·64	166
D ,, (Glenthorne)	Miss Woodd	8	1 6	86 ⅄	33·32	173
,, (Arundel Road)	J. C. Wright, Esq.	5	0 4	70	34·45	...
D ,, (Cemetery)	Miss Brodie Hall	5	4 0	160 ⅄	30·88	138
,, (Staveley Cross)	J. Weston, Esq.	5	1 6	110 T	32·82	193
D Seaford	B. A. Miller, Esq., C.E.	5	1 6	44 T	28·09	161
D Jevington (Church Farm)	F. Stileman, Esq., C.E.	8	0 9	261 ⅄	36·35	133?
D Litlington (Plough & Harrow Inn)	,, ,, ,,	8	1 0	19 ⅄	32·71	151
D§Brighton (Old Steyne)	A. Newsholme, Esq., MD	5	1 0	32 T	27·95	172
D ,, (W.W. Goldstone Bottm)	J. Johnston, Esq., C.E.	8	0 7	140 ⅄	29·65	160
D ,, (,, Lewes Road)	,, ,, ,,	8	3 6	88 ⅄	31·06	165
D ,, (,, Upper Portslade)	,, ,, ,,	8	1 3	167 ⅄	30·27	149
D ,, (W.W., Patcham)	,, ,, ,,	5	1 6	207 ⅄	34·29	179
D ,, (,, Race Hill)	,, ,, ,,	8	1 0	466 ⅄	32·13	167
D†Bexhill (Marina)	Mr. G. Brisley	8	1 0	27	33·95	168
§St. Leonards (West Marina)	H. Colborne, Esq.	8	1 0	21 ⅄	29·15	168
§,, ,, (Gensing Gardens)	,, ,, ,,	8	1 0	179 ⅄	28·73	183
D Polegate (Alciston)	R. Matthews, Esq.	5	2 0	172 T	36·24	186
D Hailsham	Rev. F. Clyde Harvey	5	1 0	105	33·41	145
D Falmer	R. R. Verrall, Esq.	5	4 0	312 ⅄	35·06	173
D ,, (Brighton W.W.)	J. Johnston, Esq., C.E.	8	1 8	209 ⅄	30·90	177
D Lewes (Bedford Lodge)	Mrs. Kemp	5	1 0	85 T	32·06	203
D Hailsham (Magham Down)	W. E. Bear, Esq.	5	1 2	90 T	29·35	161
D Hurstmonceux Place	H. A. James, Esq.	5	1 8	85	28·60	130
D Ringmer (Downlands)	R. R. Davis, Esq.	5	0 8	120	34·24	162
D Hastings (Newgate) (R)	P. H. Palmer, Esq., CE	8	5 6	240	27·62	152
,, (Filsham Res.)	,, ,, ,,	5	0 10	91	29·14	163
,, (Halton Res.)	,, ,, ,,	5	0 10	301	29·89	158
,, (Fairlight Res.)	,, ,, ,,	5	0 10	510	28·98	152
§ ,, (Cemetery)	H. Colborne, Esq.	5	0 8	500	28·47	...
,, (High Beech Hollington)	Miss Lewis	5	1 0	320 T	27·48	179
D ,, (Guestling Rectory)	Rev. E. N. Bloomfield.	5	1 5	125 ⅄	28·74	159
D Hassocks (Pyecombe)	Mr. F. S. Mitchell	5	0 7	392	35·36	162
Clayton Rectory	Rev. T. H. R. Shand	5	1 6	201 T	36·39	173
D Hurstpierpoint (Danny Park)	Mr. J. Bunney	8	1 3	180	38·70	132
D ,, (Highfield)	F. H. Phillips, Esq.	8	1 0	172	33·31	166
D Winchelsea (The Friars)	Major R. C. Stileman	5	1 2	115 T	24·01	148

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground		Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft.	in.	feet.	inches.	
EAST SUSSEX—(*con.*)							
D Horeham Manor	Miss P. C. Harrison	5	0	9	250	31·42	177
D ,, Grange	W. F. Beanford, Esq.	5	1	2	240	32·78	174
D Isfield Place	Major H. King	5	1	0	51	31·29	167
,, ,, *weekly g.*	,, ,,	5	1	0	51	30·71	...
D Battle (Whatlington)	Miss H. Gripper	5	1	3	90 T	32·44	158
Udimore (The Hammonds)	J. G. Mair-Rumley, Esq.	8	1	0	144 ⅄	25·57	156
Playden (East Guldeford Lane)	G. Pile, Esq.	5	1	0	15	25·94	...
Burgess Hill (Ote Hall)	Mrs. Woods	5	1	6	...	33·56	203
Uckfield (Agricultural College)	Prof. S. Allinson Woodhead	8	1	0	166 ⅄	30·08	164
D Heathfield (Tottingworth Park)	Mr. J. Masson	5	1	0	500 T	34·19	163
D Bolney Vicarage	Rev. T. Austen Holcroft	5	0	11	99 T	32·29	188
D Lindfield (Massetts Place)	Nigel V. Combe, Esq.	5	1	0	131 ⅄	32·79	161
D Uckfield (Sheffield Park)	Mr. W. T. Moore	5	1	0	150	30·09	173
Haywards Heath (S. Wilfrid's Par.)	Mr. J. E. Shirley	5	1	0	300	32·08	...
D ,, ,, (Abbots Leigh)	Mr. R. Inglis	5	1	0	190 T	33·95	165
D Robertsbridge (Salehurst Vic.)	Rev. E. J. Sing	5	0	9	110 ⅄	36·94	194
D Buxted Park	Mr. H. C. Prinsep	8	1	0	94	33·39	180
,, (Strawberry Hall)	C. Rintoul, Esq.	5	1	0	180	34·55	147
§Cuckfield (Workhouse)	Meteorological Office	8	1	0	389	28·75	154
D Lindfield (Wood Knoll)	L. Weedon, Esq.	5	1	0	188 ⅄	33·35	200
D Bodiam (South Park)	L. M. Jackson, Esq.	5	1	1	208 T	31·71	157
D Etchingham (Shoyswell Manor)	Isaac Seligman, Esq.	4	1	9	250 T	35·93	150
D Nutley Vicarage	Rev. H. J. Peckham	5	1	0	386 T	34·23	200
D ,, (The Hall)	Miss Cook	5	0	10	417	34·23	189
D ,, (Chelwood Beacon)	H. Clarke Jervoise, Esq.	5	1	3	530 T	39·02	186
Handcross (Lower Beeding)	Leicester M. Reed, Esq.	5	0	10	430 T	30·78	...
D Crowborough (Jarvis Brook)	Crowborough Water Co.	5	1	0	325 ⅄	38·21	157
D ,, (Uckfield Lodge)	J. J. S. Driberg, Esq.	8	1	0	796 ⅄	40·91	216
D Haywards Heath (Brook House)	H. R. G. Clarke, Esq.	5	1	0	220	32·31	143
D Ardingly (Lywood House)	G. Forrester Scott, Esq.	5	0	9	240 T	31·78	181
D Balcombe (The Gables)	Mr. G. J. Warren	8	1	3	352 ⅄	34·54	176
D Wadhurst (The Olives)	Miss Edith Luck	5	1	0	380	33·03	194
Ticehurst (Myskyns)	E. H. Cartwright, Esq.	5	1	0	350 ⅄	35·02	...
,, House	Mr. J. D. Jordan	5	4	9	423 ⅄	32·09	140
D ,, (Whiligh)	G. J. Courthope, Esq.	5	1	0	440	34·23	176
D Wadhurst (Uplands)	Miss M. C. Watson	5	1	0	480	34·20	197
D ,, (Lower Cousley Wood)	F. Wilkin, Esq.	5	1	0	416 ⅄	30·72	170
D Balcombe (Stockcroft)	R. Newton, Esq.	5	1	1	341 T	35·08	182
D Crowborough (Steel Cross House)	J. C. Stenning, Esq.	5	1	1	534 T	38·86	187
Forest Row (Hindleap Lodge)	Mr. A. Adam	5	1	6	620	31·24	...
D ,, ,, (Wych Cross)	D. W. Freshfield, Esq.	5	0	7	600	34·82	192
Frant (Eridge Castle)	Mr. A. Wilson	5	2	0	400	35·08	141
,, (Highfield)	C. M. R. Clewe, Esq.	5	2	3	413	33·04	...
D Crawley Down (The Grange)	T. H. W. Buckley, Esq.	5	0	9	430	33·37	178
Worth (Paddockhurst)	Mr. A. B. Wadds	5	1	6	500	29·81	...
D ,, (South Hill)	P. E. Ravenshaw, Esq.	8	1	6	558 T	35·50	202
D East Grinstead (Cranston Road)	Mr. G. Mitchell	8	2	2	420 T	33·66	165

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
EAST SUSSEX—(*con.*)						
Glen Andred [Groombridge] ...	Mrs. Boardman	8	1 0	320	32·54	158
Cozleigh [Groombridge]	Norman W. Grieve, Esq.	8	2 0	230	31·45	147
HAMPSHIRE.						
ISLE OF WIGHT.						
D Ventnor (Flint Cottage) .....(R)	J. S. Ineson, Esq.	5	1 0	100 ⅄	30·55	167
D ,, (St. Boniface Road) ...	Maj F. Mucklestoun Allen	5	1 0	200	33·57	134
§ ,, (Consumption Hospital)	Royal Meteorological Soc	5	1 0	81	31·93	171
D Shanklin	E. C. Cooper, Esq., C.E.	8	1 0	199 ⅄	35·06	162
D† Totland Bay (Aston House).....	J. Dover, Esq.	8	1 0	145 ⅄	31·03	166
D† Newport (Grammar School)	C. D. Vibert, Esq.	5	1 0	45	32·31	170
Yarmouth Schools	Mr. J. Furmage..... ..	5	1 0	8	29·18	...
Brading (Ryde W. W., Knighton)	J. T. Harvey, Esq., C.E.	8	2 0	68 ⅄	36·71	134
D† Ryde (New Lodge)	Capt. W. A. Dobie.....	5	1 1	147	32·52	168
† ,, (Pier Street)	T. Cole Flower, Esq....	12	9 0	35	34·74	...
† ,, (Police Station).....	C. Mathew, Esq.	8	2 0	144 ⅄	31·63	161
D† ,, (Beldornie Tower)	Percy C. Hall, Esq. ...	5	1 0	30 L	28·82	167
D† Wootton (Fernhill)	C. G. Brodie, Esq.....	8	0 6	118 T	35·45	162
D Osborne (Newbarn Cottage).....	R. Scott, Esq.....	8	0 8	172 ⅄	31·22	170
Cowes (Royal Yacht Squadron) (R)	Mr. H. S. Benzie	8	4 6	5	25·84	151
D Bournemouth (Clarendon Court).	G. Galpin, Esq.....	5	1 0	130 T	32·06	148
,, (South Cliff)	C. Dales, Esq.	5	1 0	41	29·92	176
,, (Pleasure Gardens)	,, ,, ,, ...	5	1 0	41	34·77	177
,, (Vale View)	,, ,, ,, ...	5	1 0	145	32·51	177
D ,, (Wellington House)	Messrs. Primavesi Bros	5	1 0	100 T	31·55	180
D§ ,, (Kempsey, Bath Rd.)	E. L. M. Colvile, Esq....	5	1 0	121 T	32·52	175
D Milford-on-Sea (Salt Grass)	A. C. G. Heygate, Esq.	5	1 0	6	31·93	129
D Christchurch (Winkton Lodge)..	Miss Lassell	5	1 0	34 ⅄	29·72	153
D ,, (Heron Court).....	The Earl of Malmesbury	8	0 6	25 T	36·03	161
D Lymington (The Salterns)	P. A. Ouvry, Esq.....	5	1 0	...	33·75	152
D ,, ...	F. Hill Parr, Esq., C.E.	5	1 0	78 ⅄	32·77	161
Milton (Wootton Hill)	Lt.-Col. R. Harman ...	5	1 0	188 T	35·37	173
D Portsmouth (Fort Cumberland)..	P. Murch, Esq., C.E...	8	0 9	16 ⅄	23·88	126
D§ ,, (Victoria Park)	Dr. A. Mearns Fraser...	5	1 0	18 ⅄	28·76	161
Hayling Island (Littlemead) ...	Douglas S. Bird, Esq...	5	1 2	5 ⅄	28·71	146
Ringwood (Burley Park)	Rev. W. Esdaile.....	5	1 0	200 T	37·25	145
D ,, (Bisterne).....	Rev. C. Mills	8	0 11	45 T	37·33	154
Fareham (Belvoir House)	E. Woakes, Esq., M.D.	5	0 11	20	28·94	132
D Porchester (Noel Cottage).....	Miss Montgomerie Frost	5	2 0	...	24·97	165
D† Havant (Farlington)	H. Ashley, Esq., C.E...	5	1 0	77 T	27·21	143
† ,, (,,)..... M	,, ,, ,, ...	5	1 0	77 T	27·44	...
D† ,, ...	,, ,, ,, ...	5	1 0	25 T	25·37	156
† ,, ...M	,, ,, ,, ...	5	1 0	25 T	25·12	...
,, (Denville Lodge)	G. H. Evans, Esq.....	5	0 6	9 T	30·39	...
D† Emsworth (Redlands)	F. Jacomb-Hood, Esq.	5	1 0	90 T	32·06	177
D Southampton (Cadland)	A. C. Drummond, Esq.	8	4 6	52 T	33·03	170
Lyndhurst (Cuffnells)	R. G. Hargreaves, Esq.	6	1 0	200	38·92	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
HAMPSHIRE—(*con.*)						
D Netley (Royal Victoria Hospital)	Mr. E. Batchelor	8	0 5	37 ⅄	33·80	141
D ,, (Lake House).....	Col. W. A. Pennington	8	1 0	54 ⅄	33·79	196
Cosham (Purbrook Grange)	Miss F. A. Deverell ...	8	0 9	100 ?	32·57	131
D Fordingbridge (Cuckoo Hill) ...	Heywood Sumner, Esq.	5	0 7	150	34·55	146
†Southampton(OrdnanceSurv.Off.)	Col. R. C. Hellard,R.E.	5	1 0	79 ⅄	33·06	171
,, (Thornhill Park) ...	Col. F. Willan	5	1 8	220 T	30·62	131
,, (AngleseaRd.,Shirley)	A. Spooner, Esq.	5	1 1	83	32·21	...
D Lyndhurst (Cadenham Grange).	Capt. A. S. Reynolds...	5	1 0	120 T	36·96	151
,, (Fritham House) ...	Mrs. F. E. Chapman...	5	1 0	420	34·92	167
Totton (Tatchbury Manor)	C. F. Wilson, Esq.....	5	1 0	100 ?	34·38	163
Southampton Common Res. ...M	W.Matthews, Esq.C.E.	5	1 0	193 ⅄	27·92	...
D Wickham (The Croft)	Miss C. L. Rashleigh...	5	0 11	80	33·01	179
D Botley (Botley Hill)	Lady Jenkyns	5	1 6	36 T	31·03	184
D ,, (Beechcroft, Curdridge)..	Miss L. M. S. Pasley...	8	1 6	100	33·18	179
D†Horndean (Blendworth Lodge)...	Mrs. Long	8	0 10	217	40·82	183
Fordingbridge (Oaklands)	thelateMrs.T.Westlake	8	1 0	135 T	31·62	...
D Hambledon (Rosecroft).....	Mr. L. Dawes.....	5	2 6	200 T	36·35	184
Bishops Waltham (Swanmore House)	W. H. Myers, Esq. ...	8	1 0	390 T	34·84	166
D ,, ,, (Hill Place)	Major W. A. Daubeny.	8	0 9	260 T	35·63	175
,, ,, (Northbrook Ho.)	H. W. Trinder, Esq....	5	1 0	136 ⅄	34·26	180
D ,, ,, (WintershillHall)	J. S. Moss, Esq.....	5	1 0	290 ⅄	32·05	155
D Droxford (Uplands)	Miss Bridge	5	1 0	279 T	37·44	172
,, (Fir Hill)	Capt.Mackenzie-Grieve	5	3 6	212 T	36·06	169
D Eastleigh (Fair Oak Park)	G. H. Pember, Esq. ...	5	1 0	180	32·00	204
Chandlers Ford (Fryern)	Miss Grace Stuart.....	5	1 2	200	31·10	...
D Petersfield (Ditcham Park)	C. J. P. Cave, Esq. ...	8	1 1	541 ⅄	37·65	196
D East Meon (Westbury House)...	Col.LeRoyLewis,D.S.O.	5	2 6	296 ⅄	37·05	164
D Ampfield Vicarage.....	Rev. Vere Awdry	5	3 0	230 T	31·87	169
D Otterbourne (Elderfield)	G. Norsworthy, Esq....	5	1 0	137 ⅄	31·80	181
D ,, (W.W., Shawford).	W.Matthews,Esq.,C.E.	5	1 0	113 ⅄	26·62	170
,, (,, ,,)M	,, ,, ,,	5	1 0	113 ⅄	26·82	...
D Petersfield (Fairley)	AWLeachman,Esq.MD	5	0 9	202 T	36·01	163
D Romsey (Timsbury)	BaldwinLathamEsq.CE	8	1 8	96 ⅄	30·49	168
D Twyford (Pumping Station).....	,, ,, ,,	8	1 9	139 ⅄	30·20	151
Kilmeston Manor	C. G. Heathcote, Esq...	5	4 6	323	33·50	...
D West Dean	Rev. E. Wells	5	1 0	137 B	29·96	177
D East Liss (Newlands)	E. B. Falwasser, Esq. .	5	1 0	390 T	36·70	166
West Liss (Kippences)	Rev. W. A. H. Thorold	4	1 4	250	35·34	...
D Colmer Rectory	Rev. A. C. Hervey.....	5	1 1	560 ⅄	34·53	145
D Alresford (Ovington Rectory) ...	Rev.H.F. La M.Stowell	5	1 0	221 T	35·58	169
D Greatham (King's Holt)	Mrs. Chase Parr.....	5	1 7	279 T	34·44	143
,, (Manor House).....	F. Coryton, Esq.	7	0 7	250	34·40	...
D Winchester (Wyke)	Miss I. M. Deedes	5	1 3	282	33·86	160
Horsebridge (Bossington).....	W. H. Deverell, Esq...	8	0 9	92 ⅄	32·44	181
D Stockbridge (Ashley)	Legh S. Powell, Esq....	5	...	235 ⅄	32·81	154
Broughton (Boys' School)	RoyalMeteorologicalSoc	...	...	...	30·77	...
D ,, ...	W.Steele Tomkins, Esq.	5	1 0	125 T	32·31	182
D Liphook (Fowley)	E. A. Lee, Esq.	5	0 10	296 T	35·71	168

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
HAMPSHIRE—(*con.*)						
Liphook (White Hill Chase) ...	Viscount Hawarden ...	5	1 0	300 ⅄	33·00	150
D Newton Valence Vicarage.....	Rev. A. C. Maclachlan.	5	1 0	586	34·24	197
Selborne (Coneycroft)	J. Norman, Esq.....	5	2 0	375 T	33·47	141
D§Grayshott [Hindhead]	Mrs. Lyndon	5	1 0	660 T	36·14	182
D Headley (Eveley)	Mr. T. Carter.....	5	1 3	295 T	34·55	148
Liphook (Bordon Camp)	Lt.-Col. R. E. Woolmer	8	1 0	268 ⅄	31·79	140
D§Swarraton Rectory	Rev. W. L. W. Eyre...	5	1 0	310 ⅄	33·06	199
Headley House	Mr. G. Glaysher.....	6	1 6	250 T	30·45	...
D Alton (Ashdell).....	F. Crowley, Esq.	8	3 6	433 ⅄	33·40	163
,, (Eagles Nest)	,, ,, ,, ...	5	52 4	505	20·51	...
D ,, (Holybourne)	Admiral H. C. Bigge...	5	1 3	398 T	31·09	170
,, (Shalden Manor).....	J. G. Wood, Esq.	8	3 0	594	35·83	170
D Long Parish	late C. R. Durnford, Esq.	5	1 2	210	*29·02*	...
D Andover	W. Tomlin, Esq.	5	0 10	200 T	31·95	160
D Tidworth House [Ludgershall]..	Mr. G. A. Inglefield ...	5	1 8	357 T	26·29	174
D Warren Corner [Farnham]	F. Wilkin, Esq.....	5	1 0	575 T	27·24	156
D Upton Grey (Hoddington Ho.)...	Lord Basing	8	1 0	378 ⅄	31·11	166
Oakley	Rev. F. G. Hume	5	1 6	400	32·74	181
Maplederwell	H. B. Thorp, Esq.....	8	1 2	...	28·20	...
§Aldershot	Royal Meteorological Soc	...	...	231	27·56	190
D Basingstoke (Chapel Hill).....	G. Stephens, Esq.	5	1 0	328 T	28·74	156
D ,, (Sherborne St. John)	Rev. D. W. Chute.....	5	1 2	267 T	30·34	187
D Winchfield (Elvetham Park) ...	Mr. G. B. Mitchison...	8	1 0	217 T	28·22	193
D Hartley Wintney	W. G. Machin, Esq. ...	5	1 2	222 T	26·35	174
,, Grange.....	F. Walkinshaw, Esq...	8	1 0	221 ⅄	29·03	162
D Kingsclere (Tower Hill House)...	Dr. R. Maples.....	5	1 0	327 T	33·46	193
D Strathfieldsaye Rectory	Rev. F. Page-Roberts..	5	2 0	164	27·03	187
D ,, Gardens	Mr. A. G. Nichols	5	1 8	166	27·45	162
D Heckfield (Highfield Park)	F. B. Marson, Esq. ...	5	1 3	262	26·37	167
,, (Park Corner)	J. Martineau, Esq.	5	1 2	257	25·04	153
D Eversley Rectory	Rev. H. Mosley	5	0 8	221 T	25·73	142
BERKSHIRE.						
D Sandhurst Lodge	Sir W. J. Farrer	8	2 9	263	27·80	166
D Wellington College	Rev. H. P. Fitzgerald..	5	1 0	283 ⅄	26·83	152
Finchampstead (West Court) ...	C. E. Harris, Esq.....	5	1 0	180	26·24	184
Mortimer (Wokefield Park).....	A. Palmer, Esq.....	5	4 0	180 ⅄	24·09	151
D Newbury (Sandleford Priory) ...	Mr. R. H. Butcher ...	8	2 0	381 ⅄	29·35	176
D ,, (Greenham Common)..	H. L. Bowman, Esq....	5	1 0	328 ⅄	27·98	160
D Sulhampstead (Firlands)	J. T. Strange, Esq. ...	5	1 0	300 T	26·56	164
D Aldermaston Wharf	,, ,, ,, ...	5	1 0	181 ⅄	27·98	206
D Sunningdale (Lynwood)	G. Rodie Thompson, Esq.	5	1 0	266 ⅄	28·15	166
D Ascot (Winkfield Manor)	C. A. Ferard, Esq.....	5	1 0	240 ⅄	25·78	166
D Wokingham (Staverton	H. C. Mylne, Esq.	5	1 0	220 T	25·90	193
§ ,, (Pinewood)	Meteorological Office...	8	1 0	219	26·84	159
D Beenham House.....	H. Waring, Esq.	8	2 2	320	26·35	170
D Bracknell (Warfield).....	Rev. B. C. Littlewood.	5	0 6	199 T	25·33	174
D Windsor (Royal Gardens).....	Mr. T. Edwards.....	5	1 0	...	25·76	163

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
BERKSHIRE—(*con.*)						
Reading (Englefield)	Mr. J. Coombes	5	1 1	175 ?	26·75	152
D ,, (Calcot Place)	General Swettenham	5	1 4	176 T	26·37	172
§ ,,	Meteorological Office	8	1 0	161	22·93	147
D ,, (Ellerslie, Tilehurst Rd.)	Rev. A. Cheales	5	1 0	195 ⅄	23·58	137
D ,, (Forbury Gardens)	J. Bowen, Esq., C.E.	5	1 5	145 ⅄	24·58	169
,, (The Cedars, London Rd.)	W. Haynes, Esq.	5	2 7	151 T	24·71	162
,, (Earley)	M. J. Sutton, Esq.	8	1 6	150 T	23·49	...
D Newbury (Welford Park)	Mr. C. Ross	5	1 0	341 T	31·86	191
D ,, (Weston)	R. Osmond, Esq.	5	1 4	335 ⅄	26·54	176
D Frilsham House	Mr. W. E. Austen	5	1 0	370	25·54	163
D Yattendon Court	Mr. G. H. Clack	5	0 10	440	25·96	153
D Lambourn (East Garston)	Mr. J. H. Spackman	5	2 6	395 T	27·97	171
,, (Clarionville)	F. Gullett, Esq.	5	1 6	500	27·45	...
D Maidenhead (Heywood Park)	Greville H. Palmer, Esq.	5	1 0	100	24·54	157
D ,, (The Firs, Castle Hill)	J. W. Duncan, Esq.	5	1 0	170 T	23·88	164
D ,, (Isis Cottage)	O. King, Esq.	5	1 0	80	25·48	166
D Farnborough Rectory	Rev. J. B. H. Whitehurst	5	1 3	713 T	31·37	179
D Bisham Vicarage	Rev. Wm. Farrer	5	1 9	100	26·64	163
D Cookham Vicarage	Rev. R. W. Rogers	5	1 3	90 T	26·52	140
D Temple House [Marlow]	Mr. G. Groves	5	1 0	106	26·19	182
D Wallingford (Aston Upthorpe)	J. Harold Slade, Esq.	5	1 1	...	23·12	131
D Didcot (Upton)	the late J. F. Fry, Esq.	5	2 3	240 T	24·16	155
Wantage	W. Hanson, Esq., C.E.	5	1 0	304	24·31	133
D ,, (Ardington)	Miss G. Elliot	3	0 10	292 T	24·98	182
D Wallingford (Woodlea)	G. F. Slade, Esq.	5	0 6	...	23·57	148
,, Castle	Mrs. Hedges	5	1 0	175 ⅄	22·45	...
D ,, (Brightwell)	Lt.-Col. G. H. Dyke	5	1 4	170	24·08	154
D Little Wittenham	J. Latham, Esq.	5	2 0	187	22·25	146
D Long Wittenham (Manor Ho.)	Admiral Clutterbuck	12	1 0	170 ⅄	24·30	158
,, ,, (Lovegrove Cott.)	Rev. F. C. Clutterbuck	5	1 0	165	23·66	...
Faringdon	Mr. C. Luker	5	1 0	333 T	24·70	...
D Abingdon (The Square House)	E. Estridge, Esq.	5	2 1	180 T	22·56	144
,, (Park Road)	A. Pettipher, Esq.	5	1 6	180 B	24·38	172
D ,, (Caldecott House)	Maj.-Gen. I. M. Bailie.	5	1 6	177	22·42	135
,, (Sewage Works)	G. Winship, Esq., C.E.	5	0 6	169	22·52	...
D ,, Union	Mr. J. Fray	5	1 0	196	22·79	152
,, (Northcourt House)	M. T. Tatham, Esq.	5	0 7	190 T	22·94	...

DIVISION III.—SOUTH MIDLAND COUNTIES.

MIDDLESEX.						
Laleham	J. Thornton, Esq.	...	1 0	50 ?	23·09	...
†Hampton (Southwark W.W.)	Met. Water Board	5	2 0	...	20·96	...
D† ,,	,, ,, ,,	8	1 3	42 ⅄	25·11	167
D Sunbury (Hanworth Road)	,, ,, ,,	8	0 6	50 ⅄	23·44	173
Teddington (Hampton Road)	T. Gale, Esq.	5	1 3	52 T	22·86	141
D Staines (Belle Vue)	J. Gundry, Esq.	5	1 0	51 ⅄	25·90	183

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft.	in.	feet.	inches.	
MIDDLESEX—(*con.*)							
Staines (Cambria House)	C. Ashby, Esq.	5	0	10	50 ?	25·58	142
D Twickenham (Sewage Works)	F.W. Pearce, Esq., C.E.	5	1	7	37 ⅄	21·68	135
,, (,, ,,) M	,, ,, ,,	5	1	7	37 ⅄	21·23	...
D† Kew Bridge	Met. Water Board	8	3	0	37 ⅄	22·63	138
D Acton (Newburgh Road)	Miss Baker	5	1	6	86 T	22·76	153
Ealing (Public Buildings)	C. Jones, Esq., C.E.	5	9	0	114	23·81	147
,, (Gordon Road)	Joseph Box, Esq.	5	10	0	85 T	22·95	148
,, (Castle Bar Hill)	T. Simpson, Esq.	5	1	0	152 T	25·59	164
D ,, (St. Stephen's Road)	H. W. Peal, Esq.	8	2	4	159 T	23·10	158
D ,, (Grange Park)	H. M. Baker, Esq.	5	1	6	98 ⅄	24·34	162
D Uxbridge (Cowley)	H. Judson, Esq.	5	1	0	90 T	24·06	160
Perivale (Sewage Farm)	C. Jones, Esq., C.E.	5	12	0	56	24·13	171
D† Willesden Reservoir	Met. Water Board	5	2	6	199 ⅄	22·70	131
D† ,, Green (Strode Road)	Miss Lamport	5	1	0	150	25·91	157
D ,, (Stonebridge Farm) (R)	O. C. Robson, Esq., C.E.	10	8	0	99	24·70	141
D Highgate (North Hill)	L. J. Tatham, Esq.	5	1	0	400	25·04	161
D ,, (,, ,,)	E.J.Lovegrove, Esq., CE	5	3	10	302	26·56	163
D Harrow	J.P.Bennetts, Esq., C.E.	5	1	0	215	26·33	170
D Hendon (Central School)	J. W. Butler, Esq.	...	1	4	200	24·86	187
D Hornsey (High Street)	E.J.Lovegrove, Esq., CE	8	4	3	97	27·39	175
D ,, (,, ,,)	Met. Water Board	5	4	0	109	26·22	161
D Muswell Hill (Grand Avenue)	G Michael Williams, Esq	5	1	0	317	26·77	158
D ,, ,, (Colney Hatch Lane)	Miss Abethell	5	0	10	310 T	27·79	163
,, ,, (Irish Corner Sewage Farm)	E.J.Lovegrove, Esq., CE	8	4	8	216 ⅄	26·62	171
Wealdstone House	K. R. Cobb, Esq.	5	0	11	236 T	23·19	...
Finchley (Etchingham Park)	Mrs. J. W. Scott	5	1	2	295 T	27·69	...
§ Harefield (The Scrubbs)	Meteorological Office	5	1	0	338	26·44	144
Pinner Green (Northwold)	Miss Stanley Smith	8	0	6	200 ?	25·49	164
D ,, (Hatch End)	W. M. Cann, Esq.	5	0	11	260	26·17	156
D Northwood (Haslemere)	Miss McBean	5	1	0	...	27·09	155
D ,, (The Grange)	A. P. Blathwayt, Esq.	5	1	0	220 T	26·28	166
D Harrow Weald (Hill House)	A. Crossman, Esq.	5	3	6	284	25·65	192
D North Finchley	G. B. Shoults, Esq.	5	0	8	295 T	27·70	179
D Southgate (Reservoir Road)	W. B. Butler, Esq.	5	1	0	255 T	26·11	172
D Ponders End (Bylock Hall)	H. E. Freir, Esq.	5	1	0	50	24·73	157
D† ,, ,,	Met. Water Board	8	1	0	45 ⅄	23·65	150
D Enfield (Old Park)	A. L. Ford, Esq.	5	1	9	156 T	25·77	151
D ,, (Southbury Road)	Met. Water Board	5	4	0	109 T	23·17	168
D† ,, (Carisbrooke)	J. McEwan, Esq.	5	1	0	204 ⅄	26·18	177
D ,, (The Ridgeway)	Met. Water Board	8	1	0	223 ⅄	25·50	159
Trent Park [New Barnet]	Mr. H. Parr	5	1	1	200	26·09	...
Wrotham Cott. [Hadley, Barnet]	H. E. Cooper, Esq.	5	1	0	410	29·19	163
D† Rammey Marsh [Waltham Abbey]	Met. Water Board	8	1	6	60 ⅄	24·31	155
D Potters Bar (Little Heath)	Henry Ellis, Esq.	5	4	8	375	26·15	167
HERTFORDSHIRE.							
D Eastbury [Northwood]	H. Langford Lewis, Esq.	5	1	0	360 T	25·86	168
D ,, [,,] (Easby)	Mrs. Sandford Fawcett	8	0	10	400 T	27·23	172

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
HERTFORDSHIRE—(*con.*)						
Watford (Frogmore)	J. Hopkinson, Esq.	5	1 0	182 T	28·34	188
D Rickmansworth (Moor Park)	Lord Ebury	5	2 0	340	24·44	178
D ,, (Croxley Green)	S. Ingleby Oddie, Esq.	5	0 7	250 T	27·71	149
D Elstree (Aldenham House)	Mr. E. Beckett	10	4 9	305	25·86	144
Watford (Colne Valley W.W.)	J. Hopkinson, Esq.	5	1 0	220	25·17	166
D ,, (London Orphan Asylum)	Rev. Dr. Cockrem	5	1 0	230 T	26·92	166
D ,, (Weetwood)	J. Hopkinson, Esq.	5	1 0	269 ⅄	29·38	191
,, (,,) M	,, ,,	5	1 0	269 ⅄	29·30	...
Barnet (Gas Works)	,, ,,	8	0 9	212	27·05	170
D ,, (Summerhill)	F. A. Milne, Esq.	5	0 10	400 T	25·97	156
D ,,	Rev. J. B. Lee	5	1 3	430 T	27·50	192
Chipperfield (Little Callipers)	A. W. Rivington, Esq.	5	1 0	407 T	26·08	...
D Northaw (St. Just)	Miss E. J. Poland	5	1 0	385	24·89	188
,, (Newgate Street)	J. Hopkinson, Esq.	...	...	350	26·39	140
D† Broxbourne (Stafford House)	late G. J. Newbery, Esq.	5	1 0	118 T	28·93	174
D Hemel Hempstead (Apsley Mills)	Messrs. J Dickinson & Co.	24	1 4	260	29·31	187
St. Albans (Bone Hill)	J. Hopkinson, Esq.	5	1 0	336 ⅄	28·17	183
D ,, (Hill End)	G. Goodchild, Esq.	5	1 0	295 T	25·69	148
D ,, (County Museum)	J. Hopkinson, Esq.	5	1 0	389 T	28·70	185
,, (,, ,,)	,, ,, ,,	5	1 0	389 T	28·59	184
,, (Gorhambury)	Mr. W. Newberry	5	1 0	425 T	28·80	146
D† Hoddesden (Feilde's Weir)	Met. Water Board	8	3 8	95 ⅄	23·29	164
D† Berkhampstead (Rose Cottage)	W. E. Milner, Esq.	5	1 0	334 ⅄	28·83	174
† ,, (,, ,,) M	,, ,, ,,	5	1 0	334 ⅄	28·76	...
D† ,, (Rosebank)	E. Mawley, Esq.	8	1 0	401 ⅄	28·73	172
† ,, (,,) M	,, ,,	8	1 0	401 ⅄	28·04	...
,, (Fairhill)	W. B. Hopkins, Esq.	5	1 0	548 ⅄	27·49	...
D Haileybury College	P. H. Latham, Esq.	8	1 0	270 T	24·88	166
D Gilston Park	Mr. E. Leach	8	1 0	175 T	27·15	156
D Hatfield (Holwell House)	Wilfrid E. Laurie, Esq.	5	1 6	240 T	23·90	165
D Hertford (Bayfordbury)	H. W. Clinton Baker, Esq	8	1 2	250	25·81	179
D Stanstead Abbots	E. H. Barlow, Esq.	5	1 2	115 T	24·29	135
D† Hertford (Sewage Works)	Met. Water Board	8	1 0	121	21·85	138
Tring (Wigginton)	Rev. H. J. E. Burrell	5	1 0	710 ⅄	28·93	...
D ,, (Grove Lodge)	Miss Boyson	8	1 0	450	28·28	159
,, (Pendley Manor)	Mrs. Williams	5	2 0	420	31·01	187
D ,, (Elm House)	E. J. Le Quesne, Esq.	5	1 2	460	26·94	166
,, (Cowroast)	Gordon C. Thomas, Esq.	5	3 8	394 ⅄	29·43	144
§ Harpenden (Rothamstead)	A. D. Hall, Esq.	5	0 9	420 T	28·01	170
§ ,, (,,)	,, ,, ,,	8	0 9	420 T	26·85	161
D§ ,, (,,)	,, ,, ,,	72x87	0 9	420 T	28·95	175
D Ware (Red House)	Met. Water Board	5	4 0	115 T	24·83	169
D ,, (Fanham's Hall)	Miss V. M. Croft	8	1 0	210 T	24·15	166
D Welwyn (Bridge House)	B. W. Thomas, Esq., MD	5	2 3	216	28·73	167
D ,, (Danesbury)	Mr. R. F. Sawford	8	1 0	400	26·93	168
D ,, (Datchworth Rectory)	Rev. A. Amos	5	1 0	372 ⅄	25·60	133
D Much Hadham	T. W. Mott, Esq.	5	1 0	212	24·81	166
D§ Bennington House	Rev. Dr. J. D. Parker	5	1 0	406 ⅄	24·56	185

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
HERTFORDSHIRE—(*con.*)						
D Bennington (Eileen Cottage) ...	A. B. Legard, Esq.....	5	1 0	408	26·75	185
Little Hadham (Hadham Hall)..	J. Hopkinson, Esq. ...	...	...	...	25·44	167
D Buntingford (Hamels Park).....	H. Shepherd Cross, Esq.	5	1 3	390 T	26·70	167
,, (Westmill)	T. Greg, Esq.....	5	0 8	279 T	26·37	199
D Hitchin (Preston)	R. de V. Pryor, Esq....	8	2 5	480 ⅄	26·88	171
D† ,, (Wratten).....	W. Lucas, Esq.	5	2 1	238 ⅄	25·44	171
D† ,, (The Maples)	W. Hill, Esq.....	8	1 1	220 T	25·18	179
D† ,, (The Chilterns)	F. Ransom, Esq.	5	0 9	300 ⅄	26·46	176
D† ,, (High Down)	J. Pollard, Esq.	5	1 1	422 ⅄	24·01	178
D Weston Park	M. R. Pryor, Esq.....	5	0 8	470 T	27·35	198
D Buntingford (ThrockingRectory)	Rev. C. W. Harvey ...	5	1 0	487 ⅄	25·79	186
D Baldock (High Street)	Dr. Langston Day.....	5	1 0	214 ⅄	26·07	156
D Royston (Therfield Rectory).	the late Rev. J. G. Hale	5	4 3	510 ⅄	26·69	181
,, (Barley)	W. W. Cook, Esq.....	5	1 0	249	28·95	174
,, (Earlshill House).....	J. Phillips, Esq.....	8	1 1	225 T	25·31	188
,, (Union Workhouse) ...	J. W. Wesson, Esq. ...	5	1 0	217	25·42	175
,, (Melbourne Street).....	J. E. J. Phillips, Esq..	8	0 11	201 T	23·87	170
BUCKINGHAMSHIRE.						
D Eton (Tangier Islands)	C. Sainty, Esq.	5	1 0	67 ⅄	23·51	143
D Slough (Langley)	R. H. Major, Esq.....	8	0 10	85 T	24·82	147
† ,, (Upton)	R. Bentley, Esq.	8	2 0	80 ⅄	25·27	...
D† ,, (,,)	,, ,, ,, ...	5	2 0	78 ⅄	26·13	160
D Taplow Court.....	Lord Desborough	8	1 0	217 T	24·34	149
Burnham (Burnham Cottage) ...	G. J. Williams, Esq....	5	3 0	162	26·23	...
D ,, (East Burnham Lodge)	Mrs. Harvey	5	1 0	255	26·20	155
D Farnham Royal (Broomlands)...	F.C.Moscrop-YoungEsq	5	1 0	205 T	26·15	173
D ,, ,, (The Chase) ...	M. C. Carr-Gomm, Esq.	5	3 0	175 T	26·69	151
Greenlands [Henley-on-Thames]	Hon. W. F. Smith,M.P.	8	1 3	116	25·78	157
D Hedsor	Lord Boston	8	1 0	170 T	31·29	155
D Marlow Mills	S. H. Wright, Esq. ...	8	2 0	105	27·97	179
D High Wycombe	H. S. Wheeler, Esq....	8	0 9	253 ⅄	27·27	176
D Chalfont St. Giles (The Stone)...	Col. R. W. Phipps.....	5	1 4	270 T	28·77	162
,, ,, (,,) M	,, ,, ,, ...	5	1 0	270 T	28·35	...
D Amersham (The Plantation).....	G. Weller, Esq.....	8	1 0	464 ⅄	29·03	175
Great Missenden	Mr. W. Douglas	5	1 0	400	32·56	...
D Wendover (Halton Gardens) ...	Mr. R. C. Sanders.....	5	1 10	400	27·36	165
Bulbourne [Tring]	Gordon C. Thomas, Esq.	5	2 3	401 T	27·24	184
Mentmore	Mr. J. MacGregor	5	1 2	...	25·33	...
D Oving House	H.YatesThompson,Esq.	5	1 0	515 T	25·91	190
,, ,, ... M	,, ,, ,,	5	1 6	515 T	25·54	...
D Swanbourne House	Lord Cottesloe	5	1 0	411 ⅄	27·16	170
D Winslow (Market Square)	R. A. Easton, Esq. ...	8	1 0	380 T	26·64	175
,, (Norden House).....	Dr. T. F. Vaisey.....	5	0 7	...	26·63	...
D ,, (Addington Manor) ...	Lord Addington..... ..	8	1 0	309 ⅄	25·81	171
,, (,, ,,) M	,, ,, ...	5	1 0	309 ⅄	25·00	...
Stockgrove Pk.[LeightonBuzzard]	Mr. J. Clues	5	1 2	500	27·02	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.		Height Above SeaLevel	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft.	in.	feet.	inches.	
BUCKINGHAMSHIRE—(*con.*)							
D Buckingham (Adstock Fields)...	J. E. S. Weston, Esq...	5	0	9	352 T	26·07	166
D ,, (The Vicarage).....	Rev. P. P. Goldingham	5	2	0	278 T	27·20	140
D Wolverton (St. George's Vic.)...	Rev. W. L. Harnett ...	5	1	0	270 T	26·75	164
D ,, (The School House)...	H. J. Hippsley, Esq....	5	1	0	264	26·24	179
D Newport Pagnell	F. Littleboy, Esq.....	5	2	0	196 T	26·16	149
,, ,, (Lovat Bank)...	F. J. Taylor, Esq.....	5	2	0	175 ?	26·32	...
OXFORDSHIRE.							
Caversham (Eastfield)	C. M. Powell, Esq.....	5	1	0	180 T	25·85	162
D Goring (Elmcroft).....	Major E. Gambier Parry	5	0	10	160	25·78	168
Henley-on-Thames (Peppard) ...	Rev. Hubert Shears ...	5	1	0	336	28·08	...
D ,, ,, ,, (GreysGreen)	Col. Howell Davis.....	5	2	0	350 T	29·06	145
,, ,, ,, (HenleyPark)	Martin J. Sutton, Esq.	5	0	8	410 ⅄	26·00	...
D ,, ,, ,, (Assenton)...	Mr. J. Ratty	5	1	0	281 B	27·45	134
D Dorchester (Bishops Court)	T. Latham, Esq.	5	2	0	169	23·32	183
D Abingdon (Culham Vicarage) ...	Rev. F. C. Clutterbuck	5	1	0	200 ⅄	23·64	180
D ,, (,, School House)	Mr. F. Mitchell	5	0	10	180 ?	22·98	165
D ,, (,, College)	J. S. Davis, Esq.	8	0	11	213 T	22·41	186
D Watlington (Pyrton Manor).....	E. Hamersley, Esq.....	5	1	6	321 T	26·48	185
Nuneham Park Gardens	Mr. C. E. Munday.....	8	3	0	280 T	22·85	...
Wheatfield Rectory	F. A. M. Spencer, Esq.	5	1	3	260	26·68	164
D Toot Baldon (Potland)	D. Clinkard, Esq.	5	1	0	288	25·69	167
Clanfield (The Schools).....	Mr. R. C. Lucas.....	5	1	0	230 ?	22·30	...
Great Haseley (Manor House) ...	F. Gelderd-Somervell, Esq....	5	1	0	280 T	23·76	136
D Oxford (Pumping Station)	W.H.White, Esq., C.E.	8	1	0	187 ⅄	23·81	159
D ,, (Magdalen College)	R. T. Günther, Esq....	5	1	0	186 ⅄	22·24	168
,, (,, ,,)	,, ,, ,, ...	5	33	11	223 ⅄	19·68	...
D† ,, (Radcliffe Observatory)..	Dr. A. A. Rambaut, FRS	8	1	8	210 ⅄	24·01	149
D† ,, (,, ,,)..	,, ,, ,,	11	2	4	210 ⅄	24·23	163
† ,, (,, ,,)..	,, ,, ,,	10	22	0	230 ⅄	22·48	141
† ,, (,, ,,)..	,, ,, ,,	10	112	0	320 ⅄	16·80	132
D ,, (Norham Road).....	Rev. C. B. Mount	10	1	2	206 ⅄	23·90	153
D ,, (Banbury Road)	Miss E. M. Tawney ...	5	1	1	211	22·98	156
D ,, (Headington Hill)	Miss Davenport	5	0	10	354	25·70	165
D ,, (Elsfield)	H. Parsons, Esq.	5	1	0	330 T	23·82	168
Witney	Mr. W. T. Ransom ...	...	...		260 ?	23·75	...
D ,, (Ringwood Farm)	J. W. Abraham, Esq...	5	1	0	...	25·53	152
Stanton St. John (Woodperry)...	J. Thomson, Esq.	6	1	0	399 T	24·60	158
D Islip.....	Col. G. E. Eliot.....	5	1	0	200 T	23·79	130
D Woodstock (Hampton Poyle Rec.)	Rev. S. T. Gwilliam ...	5	1	0	201 T	24·76	128
D ,, (Freeland Lodge) ...	W. J. Short, Esq.	8	0	9	345	25·36	131
D ,, (Wootton Rectory)...	Rev. F. R. Marriott ...	5	0	10	370 T	26·02	148
D Chipping Norton (Lyneham).....	R. de M. Pratt, Esq....	5	1	7	351 T	27·68	187
D ,, ,, (Sarsden) ... (R)	J. M. Blair, Esq.	8	3	0	492 T	25·37	173
,, ,, ...	A. Pettipher, Esq.....	5	1	6	700	27·78	...
,, ,, (Heythrop) ...	Albert Brassey, Esq....	8	3	0	600	24·54	164
Bicester (National School)	Mr. W. H. Piggott ...	9	0	6	238 T	24·80	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
OXFORDSHIRE—(*con.*)						
Bicester	H. A. Fane, Esq.	5	0 10	221 T	23·18	...
D ,, (Middleton Park)	The Earl of Jersey	5	2 6	338 ⅄	26·59	168
Steeple Aston (Hill House)	B. S. Ogle, Esq.	5	0 4	400	27·83	186
D ,, ,, (The Grange)	Mrs. Bradshaw	8	1 0	400 T	26·64	185
D Swerford	Mr. W. Hall	5	1 0	500 T	26·98	219
D Adderbury	G. H. Norris, Esq.	5	1 1	338 ⅄	26·59	180
D Bloxham Grove	W. H. Warriner, Esq.	8	3 10	387 ⅄	25·31	140
D Banbury (Sibford Ferris)	Joshua Lamb, Esq.	5	1 0	575 ⅄	26·41	151
D ,, (Bodicote)	J. F. Starkey, Esq.	8	1 3	388 ⅄	28·18	170
NORTHAMPTONSHIRE.						
D Brackley House	J. Allen, Esq.	5	1 0	425 T	29·10	179
D Grimsbury [Banbury] W.W.	W. E. Wood, Esq.	5	1 3	320 T	23·78	167
Thorpe Mandeville	C. A. Markham, Esq.	5	1 0	530	28·94	135
D Towcester (Paulerspury)	F. J. Gurney, Esq.	5	1 0	395	26·56	179
,, (Bradden Rectory)	C. A. Markham, Esq.	5	4 6	403	26·69	200
,, (Stoke Bruern Park)	Mr. W. Batchelor	5	1 0	320	26·09	...
,, (Easton Neston)	Mr. E. Slarke	8	1 0	340 T	28·43	171
D Blisworth (Crieff House)	A. Westley, Esq.	5	5 0	330	24·79	176
D ,,	T. W. Millner, Esq.	5	1 6	300 ⅄	24·05	176
,, (Milton House)	C. A. Markham, Esq.	...	...	...	24·35	142
D Lichborough Hall	E. Grant, Esq.	5	1 10	500	27·35	171
D Daventry (Fawsley)	The Lady Knightley	5	1 0	477 T	25·08	155
D Castle Ashby	R. G. Scriven, Esq.	5	1 0	263 ⅄	28·35	187
Great Houghton	C. A. Markham, Esq.	...	...	...	25·96	191
Little Houghton	,, ,, ,,	5	2 2	270	26·35	159
D Northampton (Balmoral Road)	B. Burrows, Esq.	5	1 0	240	25·98	154
,, (Gold Street)	C. A. Markham, Esq.	...	...	...	26·11	180
D ,, (Dallington Avenue)	,, ,, ,,	5	1 0	265 ⅄	24·69	194
,, (Berry Wood)	,, ,, ,,	8	1 4	399	25·29	168
§ ,, (Gt. Billing Rec.)	,, ,, ,,	8	1 6	275 ⅄	26·23	170
D ,, (Kingsthorpe)	Sidney Law, Esq.	5	1 0	280	25·96	166
Daventry	C. A. Markham, Esq.	5	1 0	486	25·70	157
D Althorp House	Miss Chowler	8	3 10	310 ⅄	24·43	146
Great Brington	C. A. Markham, Esq.	5	2 9	448	24·36	145
D Daventry (Tunnel End)	T. W. Millner, Esq.	5	1 6	394	27·27	184
,, (Welton)	G. M. Soames, Esq.	5	1 0	448 T	28·27	...
D Sywell Hall	T. A. Dickson, Esq.	5	1 0	371 ⅄	31·17	182
D Pitsford (Sedgebrook)	C. A. Markham, Esq.	5	1 0	311 ⅄	25·58	166
,, (,,) M	,, ,, ,,	5	1 0	311 ⅄	25·84	...
D Mears Ashby	Rev. J. B. Fawssett	5	6 5	339	29·16	190
D Wellingborough (Swanspool)	N. P. Sharman, Esq.	5	0 2	155	28·20	188
D ,, (Croyland Abbey)	E. Sharman, Esq.	5	1 0	174 ⅄	26·59	169
Watford Court	C. A. Markham, Esq.	9	1 2	380	28·20	136
D§ Ravensthorpe (Coton Mill)	G. S. Eunson, Esq.	5	1 0	355	28·88	192
Finedon	C. A. Markham, Esq.	...	...	...	26·75	182
Scaldwell	Capt. R. Soames	5	1 0	404 ⅄	27·84	...
§ Raunds (Day Schools)	Leon G. H. Lee, Esq.	8	1 0	205	26·55	166

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
NORTHAMPTONSHIRE—(*con.*)						
D Burton Latimer Rectory	Rev. W. B. Jacques	5	4 0	280	27·66	165
Hazelbeech	C. A. Markham, Esq.	5	2 6	560	27·23	156
Cranford (Woodford House)	E. N. Plevins, Esq.	8	0 8	262 T	28·29	...
D Kettering (W.W., Cransley)	T. R. Smith, Esq., C.E.	8	0 11	275 ⅄	25·78	145
,, (Workhouse)	A. Sattin, Esq.	5	0 5	297 T	27·54	170
D ,, (Sewage Works)	T. R. Smith, Esq., C.E.	8	1 0	199 ⅄	28·02	174
D ,, (George Street)	C. W. Lane, Esq.	5	1 0	288 ⅄	27·53	188
,, (Warkton)	Mr. R. H. Brett	5	1 3	275 ⅄	27·55	...
Rothwell (Loddington)	Mr. J. Oliff	5	1 0	...	29·84	141
D Orton (Sandy Hill Farm)	Mr. E. E. Grundy	5	1 0	400	27·68	138
Thrapston (Islip)	J. Edmonds, Esq.	5	1 6	145 ⅄	27·35	...
,, (Drayton House)	,, ,,	5	1 6	220	29·90	139
D Welford (Salford House)	J. Gee, Esq.	5	1 3	566	27·69	197
Aldwinkle St. Peter	C. A. Markham, Esq.	5	0 11	175	27·44	154
D Rushton Manor	R. A. Willows, Esq.	5	1 0	400 T	28·03	171
Desborough	C. A. Markham, Esq.	5	1 0	453	28·49	171
D Barnwell (Lilford Hall)	Mr. E. Wilson	5	1 0	...	28·14	154
§Oundle	C. A. Markham, Esq.	5	3 4	105 T	24·73	...
§ ,, (Water Works)	Meteorological Office	5	1 0	147	24·30	153
D Corby (Weldon Grange)	John Rooke, Esq.	8	1 0	342 ⅄	25·45	203
Kingscliffe (Fineshade)	C. A. Markham, Esq.	5	0 9	200	26·85	...
Peterborough (Thorpe Hall)	Col. C. I. Strong	6	0 6	30	23·44	...
D ,, (Minster Close)	Miss Constance Percival	5	2 0	30	25·67	179
D Eye (Newborough)	R. Williams, Esq.	5	1 0	8 ⅄	23·55	180
D§Stamford (Collyweston House)	Miss Tasker	5	1 0	281 T	23·81	195
D ,, (Easton)	Nevile Day, Esq.	5	0 9	271 T	25·02	176
,, (St. Martin's)	Mr. T. Booth	5	6 0	107 ⅄	26·02	151
HUNTINGDONSHIRE.						
St. Neots (Waresley Park)	Lady Caroline Duncombe	5	0 11	190	24·40	156
,, (Great Paxton)	Rev. A. G. Cane	5	1 0	100 T	22·23	154
Offord D'Arcy	W. Priestley, Esq.	5	0 9	51 ⅄	23·64	164
Buckden (Stirtloe House)	J. Linton, Esq.	5	2 0	75	23·89	162
Hemingford Grey Vicarage	Rev. Byrom Holland	5	1 0	25	20·21	162
D Huntingdon (Brampton)	Miss May Bird	5	1 1	39 T	25·22	176
,,	H. Lucas, Esq.	5	1 6	35 ⅄	19·53	192
,, (Hinchingbrook Gardens)	Mr. J. Barson	10	6 0	74 T	25·12	133
St. Ives (Slepe House)	Dr. W. R. Grove	5	1 0	25	21·19	160
Houghton Grange	C. H. Coote, Esq.	5	1 0	114	23·48	140
Catworth	Miss E. M. Conway	5	0 9	210	25·08	202
Somersham Vicarage	Mrs. de Courcy-Ireland	5	0 10	36	20·44	133
Whittlesea Mere	A. Lunn, Esq., C.E.	8	1 6	10 ?	22·95	125
BEDFORDSHIRE.						
D Dunstable (Kensworth)	Miss Jones	5	1 5	630 B	30·58	172
Luton (Stockwood)	Francis Crawley, Esq.	5	3 0	539 T	24·30	167
D ,, (Pumping Station)	S. F. L. Fox, Esq., C.E.	5	1 0	343 ⅄	28·69	176

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above SeaLevel	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet	inches.	
BEDFORDSHIRE—(*con.*)						
D Woburn (Milton Bryant)	Mr. C. J. Kilby	5	1 0	510	23·20	157
D Shillington	Kilham Roberts, Esq.	5	1 0	182 ⅄	25·07	169
D Holwell Bury [Hitchin]	C. Chittick, Esq.	5	1 0	185 T	23·01	148
D Ampthill (Higham Bury)	E. J. Jekyll, Esq.	5	1 0	310 T	25·84	170
,, (Silsoe)	H. Trethewy, Esq.	5	1 0	214 T	27·04	166
Shefford (Upper Stondon)	R. Long, Esq.	5	1 0	241 T	23·59	...
D Woburn (Crawley Mill Farm)	H. M. Freear, Esq.	8	1 0	292 T	25·23	175
D ,, (Fruit Farm, Ridgmont)	W. H. Neild, Esq.	5	0 8	270 T	25·83	195
Shefford (Clifton Bury)	A. Inskip, Esq.	5	2 1	150	23·12	...
Stotfold (Three Counties Asylum)	Dr. J. E. de Lisle	5	1 0	220 T	21·97	157
D Biggleswade (Old Warden Park)	Mr. W. C. Modral	8	1 2	90	26·86	171
D Potton (Wrestlingworth)	H. J. King, Esq.	5	1 0	119 T	24·67	151
Sandy (The Lodge)	Viscount Peel	5	1 0	200 ?	22·84	161
D ,, (Beeston Grange)	Col. Maunsel Bowers	5	1 0	...	21·14	169
D ,, Rectory	Rev. J. Richardson	5	1 0	120	24·92	160
D Bedford (Ampthill Road)	Thomas Pearse, Esq.	5	1 6	88	23·28	156
,, (De Parys Avenue)	W. Godfrey, Esq.	5	1 0	90 ?	22·44	...
D ,, (The Park) (R)	N. Greenshields, Esq.	8	5 8	123 ⅄	20·65	165
,, (Castle Road)	Miss M. E. Newbery	5	7 0	130 ?	23·09	151
,, (Bromham House)	R. S. Allen, Esq.	8	1 2	200	23·61	...
Goldington (Castle Mills)	W. H. Rogers, Esq.	5	1 6	90 ⅄	20·36	...
Great Barford Vicarage	A. J. W. Pym, Esq.	5	1 2	80	23·45	...
D ,, ,, House	J. Arnold Whitchurch Esq	5	1 5	120 T	23·43	147
Sharnbrook (Colworth Gardens)	Mr. J. Hoad	5	2 0	250	25·83	...
CAMBRIDGESHIRE.						
Odsey [Ashwell]	H. G. Fordham, Esq.	5	1 0	256 ⅄	24·12	187
D ,, [,,] No. 2	,, ,, ,,	5	1 0	256 ⅄	23·71	188
D Foxton House	A. P. Humphry, Esq.	5	1 0	60 T	23·60	190
Abington Pigotts	T. G. F. Pigott, Esq.	8	0 8	130	23·07	155
Meldreth (Chiswick Farm)	A. Howard, Esq.	5	1 1	70	23·00	166
D ,, (Belmington Close)	G. Warren Bindloss, Esq	5	1 0	65 T	23·45	163
Whittlesford (Sawston Hall)	D. L. Huddleston, Esq.	5	1 1	86 T	24·32	172
Harston	Mrs. C. M. Baldwin	5	0 8	47	22·28	152
Wimpole Hall	Mr. W. J. Snell	5	1 0	141	23·72	151
D Stapleford House	J. H. H. Linton, Esq.	5	2 3	64	21·64	161
Carlton	G. H. Long, Esq.	5	1 0	340 T	25·75	161
D ,, Hall	A. S. Nice, Esq.	5	1 6	290 T	26·22	159
Trumpington	C. Parsons, Esq.	5	1 0	60	24·36	150
Granchester Mill	J. Nutter, Esq.	5	5 0	31 ⅄	22·96	158
Cambridge (Fulbourne Pmpng Sta)	W. W. Gray, Esq., C.E.	5	1 0	37 ⅄	25·67	188
,, (W. W. Cherryhinton)	,, ,, ,,	5	1 0	35 ⅄	22·33	167
,, (Southacre)	L. De Bunsen, Esq.	5	1 0	43	23·10	150
,, (Herschel House)	C. N. H. Lock, Esq.	5	1 1	36 T	*21·50*	...
D ,, (Sidney Street)	W. E. Pain, Esq.	8	60 0	92 ⅄	22·12	190
D ,, (Tenison Avenue)	W. B. Parsons, Esq.	8	1 2	...	21·80	172
,, (Pinehurst)	C. F. Foster, Esq.	5	0 10	36	23·01	173
§ ,, (Botanic Gardens)	R. Irwin Lynch	8	0 10	40	22·32	171

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter.	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
CAMBRIDGESHIRE—(*con.*)						
Cambridge (Chesterton)	F. Skinner, Esq.	5	1 0	60 T	22·17	...
D ,, (Quy Hall)	T. Musgrave Francis Esq	5	0 5	24 ⅄	23·72	179
Boxworth [St. Ives]	E. H. Thornhill, Esq.	5	1 0	76	22·33	178
Burwell	R. Stephenson, Esq.	5	2 0	58	24·84	153
Conington Hall [St. Ives]	Philip T. Gardner, Esq.	8	0 5	50	24·73	182
Cottenham (Bernard House)	A. Bull, Esq.	5	3 6	30 T	23·00	156
Soham	T. Everett, Esq.	5	2 0	25 T	22·39	136
D Stretham (Dimocks Cote)	Mr. H. Nightingale	5	13 7	...	23·72	142
D ,, Engine	Mr. J. Housley	9	4 9	13 ⅄	22·33	147
,, (Orchard House)	C. Wright, Esq.	8	5 0	42	23·81	154
D§ Ely (The Palace)	Mr. H. T. Brasier	5	1 0	64 T	26·12	205
Chatteris (Holwood Farm)	Mr. G. Argent	5	0 10	12	21·14	132
Mepal Engine	Mr. J. Goodman	5	20 6	25	15·36	...
Littleport (Highfield House)	H. G. Martin, Esq.	8	2 7	67 T	21·32	135
D Chatteris (Aylesby House)	A. H. Ruston, Esq.	8	0 6	31	23·73	164
,, (The Priory)	H. F. Fryer, Esq.	5	0 7	31	23·61	140
Stanground Sluice	A. Lunn, Esq., C.E.	8	1 6	...	21·86	...
March	,, ,, ,,	9	2 0	...	24·31	148
Upwell (Marmont Priory Lock)	,, ,, ,,	8	1 1	...	22·63	168
,, (Euximoor House)	H. West, jun., Esq.	5	0 8	15	24·28	160
D Thorney (Bedford Office)	A. J. Forrest, Esq.	8	3 6	9 ⅄	20·47	145
D§ ,, (Wryde House)	S. Egar, Esq.	5	1 0	7 T	23·61	154
D Wisbech (Bank House)	Lord Peckover	8	0 8	6	24·38	154
,, (Monica Road)	W. Climenson, Esq.	8	1 2	6	24·90	138

DIVISION IV.—EASTERN COUNTIES.

ESSEX.						
D Grays Sewage Works	A. C. James, Esq., C.E.	8	2 3	12 ⅄	21·35	169
D Orsett	W. Powell, Esq.	8	3 0	73 T	22·18	144
D East Ham	Met. Water Board	8	0 11	17 ⅄	22·51	141
D§ Shoeburyness	Superintendt. of Expts.	8	1 0	13 ⅄	20·65	139
§ ,, ... M	,, ,,	5	1 0	13 ⅄	19·95	...
D West Ham (Abbey Mills)	M Fitzmaurice Esq CMG	8	1 0	11 ⅄	23·11	160
D Barking Cemetery	H. Hargreaves, Esq.	5	1 0	18	22·97	143
D Southend (Corporation Obsy.)	Southend Corporation	8	1 0	90	22·44	128
,, (Broadway)	H. J. G. Ralph, Esq.	5	1 0	78 B	22·29	157
D ,, (Water Works)	Southend Water Wks Co	8	1 0	112 ⅄	23·21	152
D ,, (,, ,, Eastwood)	,, ,, ,,	8	1 0	50 ⅄	22·44	163
D North Ockendon	W. Beech, Esq.	5	1 3	100	20·91	158
D Wanstead (Red Bridge)	Met. Water Board	8	8 0	33	23·02	136
Manor Park (Albany Road) ... M	A. J. Wilmshurst, Esq.	5	3 0	40 ?	22·36	...
Leyton (Town Hall)	W. Dawson, Esq., C.E.	5	1 0	22 ⅄	22·47	146
D† Lea Bridge	Met. Water Board	8	0 6	23 ⅄	22·27	147
D Upminster Hall	Captain G. H. T. Swinton	5	1 0	121 T	21·33	157
,, ,, ... M	,, ,, ,,	5	1 0	121 T	21·17	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
ESSEX—(*con.*)						
D†Walthamstow (Ferry Lane).....	Met. Water Board.....	8	0 10	30	22·56	155
D Romford (Harold Wood)	J. G. Broodbank, Esq..	5	4 0	120	25·50	166
D†Woodford (Haggar Lane)	Met. Water Board.....	8	0 8	176 ⅄	23·68	153
D Foulness (The Lodge)	B. C. Hall, Esq.....	5	1 2	9 ⅄	19·99	131
D Billericay (Ramsden Hall)	T. W. Bacon, Esq.....	5	0 9	260 ⅄	25·65	172
D Wickford (Runwell Hall).....	Col. H. Kemble	5	1 6	75 T	25·73	156
D Havering Grange	G. P. Hope, Esq.	5	1 0	255 T	28·07	213
D ,, -atte-Bower(Fernside)	Benjamin Smith, Esq..	5	1 0	341 T	30·38	226
D†Buckhurst Hill Reservoir.....	Met. Water Board.....	8	1 7	275 ⅄	22·79	147
D ,, ,, (Ardmore)	Mrs. Eliot Howard ...	8	1 0	270	27·00	141
D†Chingford Mill	Met. Water Board.....	8	0 6	40 ⅄	23·02	148
D Brentwood (Shenfield Rectory)...	Rev. Canon Quennell...	5	0 7	305 T	26·65	179
D†Loughton (High Beech)	Met. Water Board.....	8	1 0	376 ⅄	25·24	151
D Theydon Bois (Thrifts Hall) ...	H. B. Debenham, Esq..	5	0 9	200	25·51	181
Southminster	H. Murton, Esq.	5	1 1	85 ⅄	21·34	...
D Ingatestone (Fryerning)	A. E. Christy, Esq. ...	5	1 0	291 ⅄	25·21	167
D ,, (,, Furze Hall)...	E. H. N. Wilde, Esq..	5	1 0	285 T	26·67	183
,, (,, ,, ,,)No.2	,, ,, ,,	5	1 0	285 T	26·33	...
D†Waltham Abbey.....	Met. Water Board.....	8	5 0	66 ⅄	24·68	143
D ,, ,, (Gunpr. Factory)	The Superintendent ...	5	2 0	64 ⅄	26·60	180
Epping (The Hemnalls)	J. Nicholl, Esq.	8	0 8	345	26·99	...
Bradwell-on-Sea (BradwellHall)	J.C. Chillingworth, Esq.	5	1 1	27	21·36	...
D Danbury Rectory	Rev.J.BridgesPlumptre	5	1 0	365 T	23·24	161
D Writtle (Melbourne).....	E. Rosling, Esq.	5	0 9	140 T	21·98	160
,, ...	R. Woodhouse, Esq. ...	8	2 0	100 ?	24·31	...
,, ...	Miss Usborne	5	2 6	100	26·86	...
Fyfield (Truant School)	Mr. A. Culling	5	1 6	200 ?	27·13	...
Chelmsford (High Street).....	F. Chancellor, Esq. ...	8	1 0	92 ⅄	24·19	155
,, (CountyHortic.School)	C. W. Aylett, Esq. ...	5	1 0	...	24·12	...
D§ ,, (Spergula)	J.C. Thresh, Esq., M.D.	5	1 0	136 T	24·25	158
D ,, (Springfield Place)...	Miss Jackson	5	0 11	143 ⅄	24·70	182
,, (Roxwell)	R. W. Christy, Esq....	5	1 0	190 T	24·73	...
Abbess Roding Rectory	Rev. L. Capel Cure ...	8	1 0	300	27·56	...
Clacton-on-Sea (ClactonCollege)	H. Picton, Esq.....	5	0 9	40	21·36	...
D§ ,, ,, ,, ...	Mr. A. W. Shadick ...	5	1 2	55 ⅄	19·64	151
Great Clacton (Clay Hall)	Philip Smith, Esq.....	5	2 0	40 T	20·60	140
D Witham (Terling Vicarage).....	H. C. Boutflower, Esq.	5	1 0	115 T	24·35	163
D Great Leighs (Lyons Hall)	J. H. Tritton, Esq. ...	5	3 0	130 ⅄	24·82	140
D ,, ,, (,, ,,)	,, ,, ,, ...	5	0 6	140 ⅄	25·73	140
D Fingringhoe (Ballast QuayFarm)	T. B. Grubb, Esq.....	5	2 0	47	21·36	144
Colchester (Berechurch)	R. P. Blyth, Esq.	5	0 9	120 ?	22·88	. .
D ,, (BoroughSurveyor'sOffice)	H. Goodyear, Esq., C.E.	8	17 0	82 ⅄	18·78	122
D ,, (Hill House, Lexden)	S. F. Hurnard, Esq....	5	1 0	90 T	21·95	153
,, (,, ,,)M	,, ,, ,, ...	5	1 0	90 T	21·91	...
,, (Home Farm, ,,)	Mr. W. Bird	5	1 0	125 T	20·78	...
Great Bromley	F. J. Baker, Esq.	5	1 0	120 ?	21·96	...
D§Dunmow (Bigods Hall).....	T. Hacking, Esq.	8	1 0	298 T	26·94	175

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
ESSEX—(*con.*)						
D Braintree (Bocking, Fennes)	H. S. Tabor, Esq.	5	1 0	240 T	23·91	158
Dunmow (Saling Grove)	Capt. J. Nicolls Harrison	8	1 0	300 ⅄	20·30	...
Ardleigh (Hungerdown)	C. R. Baker, Esq.	5	1 0	151	23·61	157
Earls Colne (Chalkney House)	H. F. Hills, Esq.	5	1 0	188 T	24·87	131
D Manningtree (Bradfield Lodge)	G. Hempson, Esq.	5	1 0	113 T	22·54	163
D Harwich (Hill House, Ramsey)	Miss K. Hempson	5	0 6	80	23·50	174
,, (Coastguard Station)	Mr. W. Bevan	5	1 0	40	17·19?	...
§Halstead	Royal Meteorological Soc	5	1 0	144	24·70	169
D Lawford (Dale Hall)	W. H. Richardson, Esq.	5	1 0	110 T	22·57	155
D Dedham (Dalethorpe)	J. D. Tremlett, Esq.	5	1 1	54	22·73	167
Langham Rectory	Rev. T. S. Raffles	5	0 7	134	25·37	183
Great Maplestead (Monk's Lodge)	T. F. Miller, Esq.	5	0 9	245 T	26·01	...
D Newport (Debden Rectory)	Rev. Canon F. H. Fisher	5	3 0	330	26·90	181
D ,, (The Vicarage)	Rev. G. F. Tamplin	5	3 6	208 T	26·17	163
,, (Wood Hall)	Charles Beadle, Esq.	5	1 0	380	*26·73*	134
D Saffron Walden	S. Leverett, Esq.	5	1 0	201 ⅄	25·65	178
D ,, ,, (Audley End)	Mr. J. Vert	5	1 0	155 T	25·35	181
D Bulmer Lodge [Sudbury]	The Misses Burke	5	1 3	200 T	27·32	192
SUFFOLK.						
D§Felixstowe (West View)	S. Alexander, Esq.	5	1 0	70	22·43	161
D East Bergholt (Ackworth House)	A. Harwood, Esq.	8	1 6	145	20·69	160
D Polstead Rectory	Rev. F. J. Eld	8	3 0	90	23·16	162
D Ipswich (Woolverstone Park)	C. H. Berners, Esq.	8	1 0	100 T	23·46	167
D ,, (Orwell Park)	Mr. J. Wallis	8	1 0	60 ⅄	24·32	168
D ,, (Rookwood, Copdock)	F. L. Bland, Esq.	5	1 6	170 T	23·93	180
D Alderton Rectory	Rev. C. G. Archer	8	2 2	35 ?	21·50	162
D Sudbury (Friars Street)	E. Ransom, Esq.	5	1 7	93 T	25·64	196
D ,,	Mr. J. Alexander	5	0 8	101 T	24·57	174
D Ipswich (Museum)	F. Woolnough, Esq.	8	0 10	74	22·64	159
,, (Bishop's Hill)	Miss D. E. Biddell	5	1 0	104 ⅄	23·26	...
D ,, (Parkside)	F. Turner, Esq.	5	1 5	125	22·06	160
D ,, (Dale Hall)	Percy Turner, Esq.	8	1 0	135 T	21·85	162
Boyton Rectory	Rev. A. Washington	5	1 10	33	19·11	135
Lavenham Hall	Rev. H. Taylor	5	2 3	220	23·51	167
D Woodbridge Abbey	Col. R. J. Carthew	8	1 2	46 ⅄	23·80	167
D ,, ,,	,, ,, ,,	8	6 0	47	23·62	166
D ,, (Melton Asylum)	Dr. S. G. Longworth	8	1 4	74 ⅄	22·47	156
D Rendlesham Hall	Lord Rendlesham	5	1 0	88 ⅄	22·90	147
D§Haverhill (Great Thurlow)	H. O. Stallard, Esq.	5	1 0	241 ⅄	24·53	199
Clare (Stansfield)	J. Slater, Esq.	5	1 0	300 ⅄	29·82	...
D ,, (Hawkedon Rectory)	Rev. B. P. Oakes	5	3 4	305 ⅄	29·83	191
D Cockfield Rectory	Rev. Edwin Hill	5	1 0	305 T	25·90	186
Ash Bocking Vicarage ... No. 1	Rev. M. B. Cowell	5	1 0	231 T	26·02	150
,, ,, ,, ... No. 2	,, ,, ,,	5	3 4	231 ⅄	25·56	150
Charsfield Hall	*E. Anglian Daily Times*	...	...	...	24·17	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
SUFFOLK—(*con.*)						
Parham (The High House)	H. R. Smith. Esq.	5	1 0	93	22·81	...
D Aldborough (Aldringham Ho.)	F. Garrett, Esq.	8	4 5	50 B	21·11	153
D Great Glemham	Col. A. Bloomfield	5	0 10	80 T	26·46	140
Debenham Hall	*E. Anglian Daily Times*	...	...	...	25·70	...
D Little Saxham	Rev. H. I. Kilner	8	0 10	220	25·97	187
D Bury St. Edmunds (Westley)	R. Burrell, Esq.	5	1 0	226 ⅄	27·11	175
D ,, ,, ,, (Fornham St. Martin)	Rev. J. S. Pratt	5	1 0	100	24·85	157
,, ,, ,, (Hengrave)	Mr. W. Nichol	5	1 2	91	24·25	...
D Westleton (St. Helena)	J. R. Grimsey, Esq.	8	2 0	65 ⅄	26·94	143
D Ixworth (Walsham-le-Willows)	Miss M. C. Martineau	5	1 0	...	26·28	178
Stradbroke Vicarage	Rev. Canon W. Tate	5	1 3	172 T	24·97	...
D§ Southwold	A. C. Herbert, Esq.	8	1 0	44 T	25·20	181
Ixworth (Barningham)	Miss A. K. Lingwood	8	1 0	136	23·60	...
D Elveden Hall	Viscount Iveagh, K.P.	5	1 0	130	24·75	218
D Halesworth (Rumburgh)	Rev. W. Linton Wilson	5	3 0	148 T	23·82	201
§ Brandon (North Court Lodge)	Meteorological Office	5	1 6	40	22·74	130
D Beccles (Sotterley Hall)	Capt. Miles Barne	5	0 11	50 T	26·38	160
† Lowestoft (Belle Vue Park)	Royal Meteorological Soc	5	1 0	86 T	23·20	158
D§ ,, (The Clyffe, Corton)	R. J. Colman, Esq.	5	1 0	62 L	23·22	161
D ,, (Lound Pumping Station)	Lowestoft Water & Gas Co.	8	1 0	34	25·71	149
Fritton [Yarmouth]	Mrs. H. E. Buxton	8	0 10	40	26·72	167
D Burgh Hall [Yarmouth]	H. P. Frederick, Esq.	8	0 6	45 T	28·81	173
D Burgh Castle Rectory	late Rev. Canon G. Venables	5	0 7	40	25·89	156
NORFOLK.						
D Thetford (Waterworks)	Mr. E. S. Greenwood	8	1 0	170 T	24·94	189
Pulham St. Mary	*E. Anglian Daily Times*	...	...	...	26·33	...
D Santon [Brandon]	A. W. Preston, Esq.	5	0 10	32	24·64	177
Ellingham [Beccles]	H. Youngman, Esq.	5	3 0	...	23·34	...
D§ Geldeston [,,]	E. T. Dowson, Esq.	5	1 0	38 ⅄	26·09	197
§ ,, [,,] M	,, ,, ,,	8	1 0	38 ⅄	24·86	...
D Long Stratton (The Beeches, Fritton)	Miss Wainwright	5	1 0	120 T	27·23	194
D Raveningham Hall [Beccles]	N. H. Bacon, Esq.	8	1 3	...	26·68	160
D Saxlingham Nethergate	Mrs. Pitt	5	1 5	...	25·77	196
D Caston	A. W. Preston, Esq.	...	...	...	27·01	190
D Wymondham	J. B. Pomeroy, Esq.	8	1 3	118 ⅄	29·30	196
Watton	R. Martin, Esq.	5	1 0	166 T	27·13	174
D Hingham	G. K. Dobbs, Esq.	5	1 1	188 T	28·07	187
D Norwich (Dunston Hall)	A. W. Preston, Esq.	..	...	...	26·76	176
D Denver	,, ,, ,,	...	...	...	23·27	147
D Stoke Ferry (Wereham)	G. Read, Esq.	5	2 3	66 T	25·03	166
D Keswick Old Hall	E. Knight, Esq.	5	1 0	...	27·16	192
D Hethersett	A. W. Preston, Esq.	5	0 9	100 T	27·84	189
Outwell Sluice	A. Lunn, Esq., C.E.	9	...	16	22·81	163
D Moulton	A. W. Preston, Esq.	4	...	...	26·18	148
Emneth	F. M. Bland, Esq.	6	1 0	6	23·41	133
§ Yarmouth (Sailors' Home)	Meteorological Office	8	4 0	12	27·95	174

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
NORFOLK—(*con.*)						
D Yarmouth (Market Place)	W. C. Steward, Esq.	5	1 0	...	28·67	193
D Norwich (Eaton)	A. W. Preston, Esq.	5	1 0	98	28·54	202
D ,, (Postwick Hall)	Miss E. M. Cross	5	1 1	5	26·42	175
D ,, (Carrow House)	Miss Colman	5	1 3	35 ⅄	26·39	167
D§ ,, (Brundall)	A. W. Preston, Esq.	5	1 0	66 ⅄	29·96	201
D ,, (Ipswich Road)	J. H. Willis, Esq.	5	1 0	110 T	28·27	203
D ,, (Heigham)	A. W. Preston, Esq.	5	3 2	37 ⅄	28·21	186
D Acle	,, ,, ,,	5	0 6	51	28·24	178
D Swaffham	W. H. Plowright, Esq.	5	5 0	250 ⅄	26·42	174
,, (Homewood)	F. Everett, Esq.	5	2 6	210	32·71	...
D Honingham	A. W. Preston, Esq.	...	...	...	25·22	192
D Sprowston (Oak Lodge)	T. Cozens Hardy, Esq.	5	1 0	101 ⅄	27·33	189
D Yarmouth (Ormesby St. Michael)	Gt. Yarmouth W. W. Co.	8	1 0	21 ⅄	30·00	191
D Sporle	A. W. Preston, Esq.	...	...	...	27·20	194
D Swaffham (Dunham)	,, ,, ,,	5	1 1	320	28·13	193
D Drayton	,, ,, ,,	...	...	...	33·93	166
Wiggenhall (St. Germans Sluice)	A. Lunn, Esq., C.E.	8	1 6	...	24·63	151
D Middleton Vicarage	Rev. H. E. Bishop	5	1 0	114 T	30·25	180
Gayton Pumping Station	J. H. Webb, Esq.	5	1 0	131 T	30·42	159
D Bylaugh Park Gardens	Mr. G. Beeton	5	1 0	130 T	28·76	176
D Coltishall	W. P. Eversley, Esq.	...	...	...	28·18	139
D Great Massingham	W. S. Freuer, Esq.	5	3 2	245 T	31·19	189
D Reepham (Whitwell Vicarage)	Rev. R. Freeman	8	1 6	130 T	27·62	182
D Cawston	A. W. Preston, Esq.	...	...	135	28·34	143
D Aylsham (Woodgate)	R. J. W. Purdy, Esq.	5	1 0	100 T	29·70	161
D North Walsham (Dilham)	A. W. Preston, Esq.	5	0 8	...	29·61	216
D ,, ,, (Worstead)	R. Cross, Esq.	8	1 0	...	31·16	175
D Stalham (East Ruston Grange)	Mr. W. S. Horn	5	1 0	15 ⅄	27·00	169
D§ Hillington School	Rev. H. Ffolkes	5	3 6	93 ⅄	31·58	193
D Sandringham House	Mr. T. H. Cook	5	1 1	121 T	32·43	169
Fakenham (Pensthorpe)	A. W. Preston, Esq.	5	2 6	153	26·15	...
West Rudham	W. S. Freuer, Esq.	5	0 10	180	30·25	...
D Holt	J. H. Pearson, Esq.	5	1 0	211	25·10	173
D Cromer (Northrepps Hall)	Mrs. R. Gurney	5	0 4	200	29·42	202
,,	W. H. Archer, Esq.	8	1 0	197 T	22·07	200
D ,, (The Warren)	F. Barclay, Esq.	8	1 6	...	26·84	143
D Burnham Overy Staithe	Rev. F. W. Walter	3	3 0	15	26·83	159
D Blakeney	C. I. Temple Lynes, Esq.	5	1 3	29	22·32	180
Wells (Holkham Hall)	Earl of Leicester, K.G.	12	4 0	39	25·94	...

DIVISION V.—SOUTH WESTERN COUNTIES.

WILTSHIRE.						
Landford (Northlands)	Mrs. Wigram	5	1 10	167 ⅄	31·16	153
D Donhead St. Mary (Charlton Ho.)	Dowager Lady Wynford	5	0 7	514	37·87	199
D Berwick St. John (Ferne)	Col. A. H. Charlesworth	5	1 0	500	40·79	164
Broadchalke Vicarage	Rev. E. J. Satterthwaite	5	1 0	300 T	36·35	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
WILTSHIRE—(*con.*)						
D Longford Castle	The Earl of Radnor	5	1 0	141 T	31·66	167
D Alderbury	Rev. Canon Hutchings.	5	0 8	263 ⅄	29·77	147
D Tisbury (The Academy)	J. Bristol, Esq.	5	0 9	380 T	38·27	160
D East Knoyle (Slades)	E. H. Miles, Esq.	5	1 0	560 T	37·90	188
D Salisbury (Fowlers Hill)	T. Awdry, Esq.	5	2 0	225 ⅄	27·19	167
D ,, (Brown Street)	T. H. Baker, Esq.	5	1 0	155	30·69	199
D ,, (De Vaux Lodge)	H. Peniston, Esq.	5	1 0	150	30·49	191
D ,, (London Road)	Frank Dell, Esq.	5	1 0	220 T	29·04	163
,, (Wilton House)	T. Challis, Esq.	8	0 6	180 ⅄	32·11	174
D Stratford-sub-Castle (The Manor Ho.)	J. Carpenter, Esq.	5	0 9	165 T	27·89	160
Mere (The Limes)	E. Bracher, Esq.	5	1 0	300 ?	35·40	...
,, Vicarage	Rev. J. A. Lloyd	5	3 0	370	36·88	200
D ,, (Charnage)	A. R. White, Esq.	5	1 0	426 T	37·70	192
D Wylye Rectory	Rev. G. R. Hadow	5	1 0	220 T	35·58	181
Maiden Bradley	The Duke of Somerset.	8	1 6	626 T	44·33	188
D Warminster (Rye Hill)	S. E. Jefferys, Esq.	8	2 0	466 T	37·57	204
D Bulford (Manor House)	Mr. J. Bryan	5	1 0	242 ⅄	25·72	168
Salisbury Plain (Chitterne House)	R. Hayward, Esq.	11	4 0	319 T	29·17	164
D ,, ,, (Shrewton)	F. J. Wardale, Esq.	5	0 9	322	35·07	188
D Warminster (Downside)	Mrs. Stent	8	2 3	393	33·43	186
D ,, (Rock Villa)	J. Wallis Titt, Esq.	5	4 0	400 T	40·10	155
Market Lavington	Miss A. P. Bouverie	5	0 10	290	29·19	188
D Ludgershall (Conholt Park)	E. A. Wigan, Esq.	5	1 3	800 T	36·93	180
D ,, (Collingbourne Kingston)	Baldwin Latham Esq CE	5	1 0	470 ⅄	29·14	150
D Trowbridge (Water Works, Biss)	W. W. Gray, Esq., C.E.	5	1 0	311	33·54	182
D ,, (Rood Ashton)	Mr. W. Strugnell	8	1 6	250	29·46	188
D ,, (Wingfield)	T. H. Clark, Esq.	5	1 0	190	29·98	161
D Devizes (Chirton)	Mr. T. Selfe	5	3 0	370	30·30	176
D Bradford (The Chantry)	Dr. Beddoe, F.R.S.	5	0 9	125	27·91	172
D ,, (Winsley Manor)	E. W. Knatchbull, Esq.	5	0 6	400	29·53	192
,, (Bearfield House)	G. A. R. FitzGerald, Esq.	5	1 10	290 T	29·97	155
D ,, (Holt)	A. J. Beaven, Esq.	5	1 2	120	29·46	212
D Devizes (Wilts Co. Asylum)	Dr. Ireland Bowes	8	2 3	385 ⅄	27·38	175
D Buttermere Rectory	Rev. W. E. Burkitt	5	3 6	847	32·86	168
Pewsey (Wilcot Vicarage)	Rev. W. Slater Sykes	5	0 6	415 ⅄	33·59	...
,, (Stowell Park)	J. H. Smith-Barry, Esq.	5	1 0	450	29·99	...
D Shalbourne (West Court)	Mr. T. Barns	5	1 0	640 ?	31·95	187
D Bishops Cannings	Rev. C. W. Hony	5	1 0	446 ⅄	30·14	185
D Devizes (Shepherd's Shore)	Mr. J. Carter	5	1 6	555 T	32·41	175
D Marlborough (Preshute House)	Mr. G. E. Mew	5	0 9	...	32·84	160
§ ,, (College)	Royal Meteorological Soc	5	1 0	425	27·92	197
D ,, (Mildenhall)	Rev. Gordon Soames	5	1 0	456	29·98	161
D Calne (High Street)	H. Wilkins, Esq.	5	3 6	244 T	29·72	149
,, (Compton Bassett)	Dr. W. H. Symons	8	1 0	400 T	31·46	194
Yatesbury	late Rev E. D. Guillebaud	5	0 9	564 ⅄	34·86	...
Ramsbury (The Mead)	Miss M. P. McDonald.	5	1 0	398 T	26·65	...
Chippenham (Langley Burrell)	Rev. A. B. Mynors	8	1 2	250	29·10	168
D ,, (Kington Langley)	H. H. Palairet, Esq.	8	1 0	270	29·92	192

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
WILTSHIRE—(*con.*)						
D Chippenham (Christian Malford)	B. C. Foster, Esq.	5	0 10	175 ?	29·62	169
D Wootton Bassett	H. Bevir, Esq.	5	1 6	422 T	28·30	173
D New Swindon	H. J. Southwell, Esq.	8	0 11	378	27·13	182
§Malmesbury	Royal Meteorological Soc	5	1 0	236	29·58	182
D ,, (Charlton Cottage)	Countess of Suffolk	...	0 9	300	28·79	152
D Highworth (Hannington Hall)	late A. D. Hussey-Freke, Esq	5	1 0	375	25·23	159
DORSETSHIRE.						
§Portland Bill (High Light)	Meteorological Office	8	1 0	177	23·39?	165
D Swanage (Worth Matravers)	Dorset Field Club	5	1 0	400	33·26	195
Weymouth (Wyke Regis)	Mrs. Pretor	5	1 0	158 B	30·18	162
D§ ,, (Westham)	I. J. Brown, Esq.	5	1 0	25	28·31	152
D ,, (Massandra)	H. W. Green, Esq.	5	1 6	40	33·87	193
D Swanage (Royal Victoria Hotel)	H. B. Vincent, Esq.	5	1 11	50 ⅄	33·97	162
Chickerell (Montevideo)	Mrs. N. M. Richardson	5	1 0	100	30·60	184
,, Rectory	Royal Meteorological Soc	...	...	...	28·54	182
D East Fleet (Fleet House)	Dorset Field Club	5	1 2	40	28·50	146
D West Lulworth Vicarage	Rev. W. Percy Schuster	5	1 0	128 ⅄	32·86	142
D Abbotsbury (New Barn)	J. C. P. White, Esq.	5	1 6	111 T	29·25	185
D Upwey (Portland W.W.)	R. S. Henshaw, Esq. C.E.	8	1 0	290 ⅄	34·13	184
D Wareham (Holme)	Gerald D. Bond, Esq.	5	1 0	24	35·09	156
,, (Stoborough)	Dorset Field Club	5	1 5	20	32·97	...
D Winterbourne Herringstone	,, ,, ,,	5	3 1	200	37·90	157
D Wareham (Castle Gardens)	S. W. Bennett, Esq.	5	2 6	18	35·33	176
D ,, (Binnegar Hall)	Lt.-Col. P. Farrer	5	1 0	65	35·56	155
Abbotsbury (Littlebredy)	Dorset Field Club	5	0 6	350	38·11	163
D Winterbourne Steepleton	H. Stilwell, Esq.	8	1 0	316 ⅄	39·39	179
D Dorchester Water Works	G. J. Hunt, Esq.	8	1 2	315 ⅄	38·37	188
D ,, (Wollaston House)	Capt. J. E. Acland	5	1 0	200 ⅄	38·28	187
D Poole (Parkstone)	W. Symes, Esq.	5	1 3	160	33·12	169
D Lyme Regis (Colway Cottage)	Dr. J. Spurr	5	1 0	250	31·24	176
D Bridport (Coneygar)	H. Gordon, Esq., C.E.	5	1 0	110 T	30·19	155
D Charminster (Brooklands)	Dorset Field Club	8	1 3	...	37·20	140
D Puddletown	,, ,, ,,	5	1 0	190	36·90	144
D Bere Regis Vicarage	Mr. A. Lucas	5	1 0	120	33·56	151
,, ,, (Bloxworth Rectory)	Rev O. P. Cambridge F.R.S	5	1 6	205 T	34·29	136
D ,, ,, (,, House)	Mr. F. G. A. Lane	5	1 6	118	35·66	169
D ,, ,, (Longthorns)	Mr. S. Smart	5	1 0	...	37·79	174
D Sturminster Marshall (Bailie Ho.)	Rev. J. Cross	5	0 6	85	35·21	173
,, ,, (,, ,,)M	,, ,,	...	...	85	35·10	...
D Wimborne (Codford)	G H Batterbury, Esq. M.D	5	0 9	69 T	36·75	169
D ,, (Park Homer)	Mrs. Paget	5	0 6	...	36·13	211
D Beaminster Vicarage	Rev. A. A. Leonard	5	1 0	216 T	35·23	185
,, (Fleet Street)	J. Andrews, Jun., Esq.	5	1 0	200 T	34·61	184
Broadwindsor Vicarage	Rev. G. C. Hutchings	5	0 7	540 T	37·05	188
D ,, (Blackdown House)	C. E. M. Pinney, Esq.	5	0 9	515	38·66	202
D Winterbourne Houghton	Rev. H. H. T. Bassett.	8	0 6	450	35·83	139

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter.	Height Above Ground.		Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft.	in.	feet.	inches.	
DORSETSHIRE—(*con.*)							
D Cerne Abbas (Melbury House)...	Mr. R. Rintoul	5	1	6	500	36·68	170
D Chedington Court	Mr. H. Birkinshaw ...	5	1	0	605	34·04	175
D Wimborne (Horton Vicarage) ...	Rev. G. Wellington ...	5	1	0	133 T	34·47	158
D Holwell (Westrow)	Mr. G. Coffin	5	1	0	252	32·82	170
D Iwerne Courtney (Shroton)	Admiral R. Stopford...	5	1	2	200 T	32·46	161
D Sturminster Newton (Riverside).	A. R. Hallett, Esq. ...	5	5	0	200	29·49	159
D ,, ,, Rectory ...	Dorset Field Club	5	2	7	180	27·97	159
D Sherborne Castle	Mr. T. Turton	5	1	0	195 T	30·40	184
§Shaftesbury	RoyalMeteorologicalSoc	5	1	2	722	32·46	176
D Buckhorn Weston.....	Rev. W. Hughes D'Aeth	5	1	0	285	26·85	175
D Gillingham	S. H. Stephens, Esq....	5	1	2	244 T	34·79	184
D ,, (Milton-on-Stour) ...	L. B. Matthews, Esq...	8	1	2	250	32·74	177
SOUTH DEVON.							
D Salcombe (Sandhills).....	W. H. Pike, Esq.	5	1	0	118	31·49	197
§ ,, ...	RoyalMeteorologicalSoc	5	1	0	111	35·81	186
South Huish	W. Balkwill, Esq.....	5	5	6	68 T	35·53	...
D Kingsbridge (Collapit Creek) ...	AshleyA.Froude,Esq. C.M.G.	5	1	6	50 ⅄	32·35	155
,, (Westcombe)	T. W. Latham, Esq....	5	1	0	100	43·68	192
D Start Bay (Slapton)	Horace G. Morgan, Esq.	5	1	0	130	39·02	195
D Revelstoke (Membland)	Mr. G. Baker.....	5	1	0	180 T	36·54	151
Dartmouth (Redlap House)	L. Karslake, Esq.	5	1	1	220 T	30·11	192
D Ermington (Strode)	H. Gore Hawker, Esq.	5	1	0	125 B	39·32	189
D†Plymouth (The Hoe).....	H. V. Prigg, Esq., C.E.	8	1	0	117 ⅄	33·40	206
D ,, (Freedom Fields)	,, ,, ,, ...	8	1	0	208 ⅄	37·83	195
D ,, (Drake's Reservoir)...	F. Howarth, Esq., C.E.	5	1	0	149 ⅄	36·90	188
D Devonport (Rowdens Res.)	F.W.Lillicrap,Esq.,CE	5	1	0	201 ⅄	32·46	183
D Ivybridge (Langham Hill)	Miss Glanville	5	1	0	400 T	47·36	210
D ,, (Blackadon Asylum)..	H. V. Prigg, Esq., C.E.	5	1	0	607	57·88	227
D South Brent (Great Aish).....	Miss Kingwell	5	1	0	500 T	58·81	202
D Totnes (Berry Pomeroy)	C. Barran, Esq.	5	1	0	185 ⅄	37·60	176
Bere Ferrers Rectory.....	Rev. F. T. W. Wintle.	5	1	0	100	47·05	198
D Bickley (Roborough Reservoir)..	F. Howarth, Esq., C.E.	5	1	0	548 ⅄	45·82	206
§Torquay (Princess Gardens) ...	F. March, Esq.	5	1	0	12	28·60	171
D§ ,, (Cary Green)	,, ,, ...	5	1	0	12	28·53	169
Lee Moor Clay Works	T. Martin, Esq.	8	1	6	850 T	57·59	...
D§Buckfastleigh (Bossell Park) ...	J. Hamlyn, Esq.....	5	1	6	200	54·45	185
Yelverton	Dr. H. J. S. Liddell ...	5	7	0	627 ⅄	56·64	219
Sheepstor ..... M	F. Howarth, Esq., C.E.	5	1	0	1024 ⅄	55·62	...
D ,, (Red Stone)	,, ,, ,,	5	1	0	763 ⅄	59·15	214
D ,, (Burrator)	,, ,, ,,	5	1	0	755	59·21	214
D ,, (Head Weir).....	,, ,, ,,	5	1	0	720	57·80	214
D Dartmoor (Lowery)	F.W.Lillicrap,Esq.,CE	5	1	0	890 T	50·13	224
D ,, (Deancombe Farm) ...	F. Howarth, Esq., C.E.	5	1	0	830 ⅄	55·80	191
D ,, (Leather Tor Farm)...	,, ,, ,,	5	1	0	910 ⅄	55·05	215
,, (Siwards Cross)..... M	,, ,, ,,	5	1	0	1200 ⅄	59·27	...
,, (Cramber Tor) ..... M	,, ,, ,,	5	1	0	1435 ⅄	52·99	...
D Kingskerswell (Barton Hall) ...	Capt.H.LangfordBrown	8	1	2	360 T	26·10	175

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height above Ground.	Rain Gauge. Height above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
SOUTH DEVON—(*con.*)						
D Kingskerswell (South Hill)	E. A. Foster, Esq. ...	5	1 0	270 T	28·34	159
D Abbotskerswell (Court Grange)..	Mrs. Marcus Hare	5	1 1	150 B	35·95	183
D Ashburton (Holne Vicarage) ...	Rev. J. Gill.....	5	1 6	650 B	55·63	205
D ,, (Dolbear).....	Maj. W. W. Battiscombe	5	1 0	300 T	41·92	189
D§ ,, (Druid House).....	P. F. S. Amery, Esq....	5	1 0	572 T	45·76	199
D Newton Abbot (The Chestnuts)..	E. D. Wylie, Esq.....	5	0 6	100 T	31·11	165
Bickington Vicarage	Rev. P. H. Owen	5	1 0	400	31·76	...
Teignmouth (Bitton Street)	W. C. Lake, Esq., M.D.	5	1 0	70	27·95	177
D ,, (Woodlands).....	W. B. Harris, Esq. ...	8	1 2	98	27·08	167
D ,, (Den Gardens)	Mr. G. Rossiter.....	5	1 0	20 T	27·71	162
,, (Bonnicliff)	Capt. J. Horner.....	5	1 0	260 T	28·00	170
D§ Tavistock (Statsford, Whitchurch)	E. E. Glyde, Esq.	5	1 0	594 ⅄	49·64	232
D ,, (Public Library)	Mr. J. Quick	8	20 0	283 T	43·05	220
D Princetown (Huccaby House) ...	R. Burnard, Esq.	5	0 11	900 T	54·12	213
† ,, ...	Mr. W. Lee	8	1 6	1390 T	80·30	...
§ ,, ...	Royal Meteorological Soc	5	1 0	1360	81·51	207
Dartmoor (Leeden Tor)..... M	F. Howarth, Esq., C.E.	5	1 0	1270 ⅄	47·32	...
,, (N. Hessary Tor) No. 1	,, ,, ,,	5	1 0	1625 ⅄	52·49	...
,, (,, ,,) No. 2	,, ,, ,,	5	1 0	1502 ⅄	52·71	...
† ,, (Cowsic Valley).....	F. W. Lillicrap, Esq., CE	8	1 6	1352 ⅄	68·33	...
† ,, (Black Dunghill) No.5	,, ,, ,,	8	1 0	1590 T	50·85	...
† ,, (Beardown Tor) No.3	,, ,, ,,	8	1 0	1550 T	45·77	...
† ,, (White Tor) No.1	,, ,, ,,	8	1 0	1640 T	45·83	...
† ,, (Devil's Tor)..... No.2	,, ,, ,,	8	1 0	1785 T	46·80	...
† ,, (Cowsic Head) ... No.4	,, ,, ,,	8	1 0	1580 T	54·88	...
Marytavy Rectory.....	Rev. Irvine K. Anderson	8	1 0	560 ⅄	54·13	...
D Dawlish (Holcombe)	Louis C. J. Doxat, Esq., C.E.	5	0 11	180 T	24·83	167
D ,, (Blyth).....	Commander Plenderleath, RN	5	1 0	44 ⅄	29·40	197
D Chudleigh (Ideford Rectory) ...	Rev. G. J. Ford.....	4	1 0	300 ⅄	31·17	189
D Bovey Tracey (Colehays)	Mr. G. Heath.....	5	1 0	400	42·73	181
Milton Abbot (Endsleigh).....	Mr. F. Yole	5	1 0	180 T	40·65	...
D Lifton (Kelly House).....	Rev. Maitland Kelly...	8	2 6	462 T	40·74	210
Marystowe Vicarage	Rev. H. B. Grylls	5	1 0	400 T	36·99	...
Coryton Rectory	Rev. H. N. Fowler ...	5	1 0	400	36·28	216
D Starcross (Cofton Vicarage)	Rev. C. F. Benthall ...	5	1 9	60	26·00	158
D Exmouth (Nidderdale)	Mrs. Herbert Stewart..	5	1 0	51	24·00	161
D ,, (Manor Grounds)	S. Hutton, Esq., C.E...	5	1 0	13 ⅄	25·53	170
,, (Filter Beds)	,, ,, ,,	8	8 6	195	26·25	175
Chudleigh (Trusham)	Rev. Offley H. Cary ...	5	0 6	322 T	31·45	173
Budleigh Salterton (Squabmoor).	S. Hutton, Esq., C.E...	5	1 0	267	28·34	181
D East Budleigh (Syon House) ...	H. W. Drummond, Esq.	5	1 0	75 ?	27·05	143
D ,, ,, (West Hill Lodge)	Mrs. H. J. Thurgood...	5	3 0	150 ⅄	25·60	154
,, ,, (Otterton Vic.)...	Rev H Mackworth Drake	5	1 0	80	28·29	...
D ,, ,, (Bicton).....	Mr. J. Mayne.....	5	1 0	90	29·32	175
,, ,, (,, Common)	S. Hutton, Esq., C.E...	5	1 0	300	29·09	...
D Kenton (Southtown House)	Major Courtenay	8	2 6	56 ⅄	28·93	171
D Polapit Tamar [Launceston] ...	R. C. Coode, Esq.	5	1 0	315 ⅄	40·10	217
D Moretonhampstead (Bullaton) ...	S. C. Chapman, Esq., C.E.	8	1 0	928 ⅄	37·03	202

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
SOUTH DEVON—(*con.*)						
D Moretonhampstead (Mardon) ...	S.C.Chapman, Esq., C.E.	8	1 0	835 ?	35·28	204
D ,, (Kennick) ...	,, ,, ,,	8	1 0	836 ⅄	34·84	218
,, (Laploy d) M	,, ,, ,,	5	1 6	1030 ⅄	29·57	...
,, (Blackingstone) M	,, ,, ,,	5	1 6	1090 ⅄	28·01	...
D ,, Rectory.....	Rev. S. D. Dewey	5	1 0	600	35·83	226
D Chagford (Dartmoor Sanatorium)	Dr. A. Scott-Smith ...	5	1 3	750 T	47·36	179
§Sidmouth (Sidmount)	Royal Meteorological Soc	5	1 0	149 ⅄	28·66	195
D Seaton.....	Mrs. Pattinson	5	0 10	25	29·47	177
D§Rousdon [Lyme Regis]	Hon. Lady Peek.....	5	34 0	516 ⅄	30·89	186
§ ,, [,, ,,] ..... M	,, ,, ,, ...	3	1 0	516 ⅄	29·82	...
D Clevelands [Lyme Regis]	Mr. J. F. Stobo	5	1 11	465 ⅄	32·97	186
D†Exeter (St. Thomas).....	E. N. Snow, Esq.	5	0 8	65	27·21	158
,, (Heavitree)	R. H. Cecil Baker, Esq.	8	1 2	175 B	25·99	...
D† ,, (Devon & Exeter Inst.)...	J. E. Coombes, Esq. ...	5	13 7	155 ⅄	25·02	175
D† ,, (Elmfield House)	W.B.Heberden, Esq.CB	5	4 0	100	23·20	157
†Broad Clyst (Brockhill)	W.T.Bayne, Esq. LL.D.	5	1 0	80	27·02	182
D Ottery St. Mary.....	Mr. H. D. Badcock.....	5	4 0	170 B	32·84	175
Newton St. Cyres	Rev. J.A. Welsh Collins	5	1 0	145 T	27·29	175
D Upton Pyne (The Parsonage) ...	Rev. A. Hillyard	5	1 0	213	28·66	163
†Brampford Speke Station	Mr. A. Tucker	5	1 0	83	26·23	148
§Silverton (Killerton) ..... (R)	Royal Meteorological Soc	10	2 0	161	26·05	188
D Beaworthy (Halwill Manor).....	W. J. Harris, Esq. ...	...	...	...	48·95	190
Crediton (Newcombes)	B. H. Hill, Esq.....	5	1 0	251 T	29·29	...
D ,, (Okefield)	Seymour F. Pope, Esq.	5	1 0	325 T	29·03	203
D ,, (Stockleigh Pomeroy)...	Rev. T. H. Philpott ...	8	1 2	340	31·24	194
D Honiton (Combe Raleigh).....	Lt.-Col. M. James	5	2 4	500 T	35·63	190
D§Cullompton.....	T. Turner, Esq.	5	1 0	202 T	33·82	195
D†Tiverton (Broomhill).....	Mrs. Dickinson	5	1 0	380	33·93	189
D† ,, (Highfield).....	General G. W. Hanson	5	1 10	450 T	39·38	220
D ,, (St. Peter Street)	Miss Gill.....	5	6 0	270 B	34·63	211
D Halberton	Capt. G. Izat, R.N. ...	5	1 0	240	32·36	163
D Uffculme (Bullmoor)..... ..	Miss M. E. Gowring ...	5	1 0	280	32·77	206
D Bampton (Huntsham)	H. Acland Troyte, Esq..	8	1 0	640	38·60	203
,, (Wonham)	Mrs. J. R. Holland ...	5	1 0	530	38·14	188
NORTH DEVON.						
D Okehampton (Oaklands)	General Holley	5	1 0	500 T	42·11	179
D Petrockstow (Heanton Satchville)	Mr. A. Eames	5	1 0	332 ⅄	38·37	214
D Torrington (Enfield)	G. M. Doe, Esq.....	5	1 0	336 ⅄	38·90	226
D ,, (Stevenstone)	Mr. W. Gillies	5	1 0	420	40·14	229
D ,, (Little Silver).....	Mr. P. H. Griffin	5	1 0	395	39·51	218
D Parkham (Melbury Moor).....	Baldwin Latham Esq CE	5	1 0	623 ⅄	50·19	260
D ,, (,, Reservoir)...	,, ,, ,,	5	1 0	516 ⅄	51·45	255
D Romansleigh Rectory	Rev. J. H. Thompson..	5	1 0	590 T	35·46	231
D Hartland Abbey.....	Mr. G. Sleep	5	1 6	222 T	35·09	198
Alverdiscott (The Firs).....	F. A. Trevan, Esq. ...	5	2 6	330 T	37·22	209
D Abbotsham (Riccard's Down) ...	Mrs. Hibbert	5	1 0	87 ⅄	34·62	222
South Molton	F. Day, Esq.	5	1 0	450 T	48·40	218

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
NORTH DEVON—(*con.*)						
D Bideford (Gammaton W. W.)	Baldwin Latham Esq CE	5	1 0	335 ⅄	38·29	200
,, (Webbery)	C. E. Boyd, Esq.	5	1 10	300 T	38·68	222
D ,, (Rectory)	Rev. T. Newton Leeke.	5	1 2	150 T	36·01	211
D ,, (Beechcroft)	A. H. Hobhouse, Esq.	2	1 0	120	35·00	221
D ,, (Northam Road)	Mr. W. Littlejohn	5	0 6	20	34·18	197
,, (Horwood House)	Rev. J. Dene	5	1 0	288 T	32·50	220
East Anstey	Miss Mary Soames	5	1 0	740 T	*47·20*	200
D Molland	S. J. Case, Esq.	5	1 9	674 T	55·32	226
Northam (St. Helens)	Miss L. Bowles	6	1 0	67 T	32·08	221
D ,, Vicarage	Rev Preb Dimond-Churchward	5	1 3	173 ⅄	33·75	194
D Westward Ho! (Bellevue)	A. H. Boyd, Esq.	10	1 0	200 ⅄	30·70	221
D Instow	Miss Lock	5	1 0	100 B	31·36	170
D§South Molton (Castle Hill School)	Mr. W. H. Reeve	8	1 0	363	45·93	242
,, ,, (,, ,, Gardens)	T. Wainwright, Esq.	12	3 6	317	46·48	209
West Buckland (County School)	,, ,, ,,	...	...	651	*45·82*	...
Barnstaple (Newport)	,, ,, ,,	5	1 0	138	43·34	210
D† ,, (N. Devon Athenæum)	,, ,, ,,	8	1 0	25 T	40·77	224
,, (Pilton)	Miss Hibbert	5	1 0	83 T	40·84	224
†Braunton (Preston Ho., Saunton)	Miss Durham	5	0 8	120 B	37·09	186
D§Barnstaple (Arlington Court) *No. 1*	Lady Chichester	5	1 0	613 B	64·03	247
D Challacombe	A. Leworthy, Esq.	5	1 2	925	72·42	229
§Woolacombe	Royal Meteorological Soc	5	1 0	60 ⅄	29·46	205
Parracombe	Rev. J. F. Chanter	5	1 0	795 T	54·54	204
Ilfracombe (Reservoir)	T. Wainwright, Esq.	5	1 0	377	50·70	265
,,	,, ,, ,,	...	...	35	39·04	211
§ ,, (Hotel)	Royal Meteorological Soc	5	1 0	24	39·25	212
D Martinhoe Rectory	Rev. R. W. Oldham	5	2 3	808	44·25	218
Lynton (Lee Abbey)	C. F. Bailey, Esq.	5	0 6	320 T	41·39	...
D Lynmouth (Gwynallt)	A. L. Ford, Esq.	8	0 8	284 T	43·38	201
D ,, (Rock House)	T. H. Mead-Briggs, Esq.	5	0 11	22 ⅄	41·13	209
CORNWALL.						
Lizard (Landewednach)	A. P. Jenkin, Esq.	5	1 0	244 ⅄	27·98	...
Mullion	R. Thomas, Esq.	5	1 0	200	35·51	189
St. Keverne (Lanarth)	P. D. Williams, Esq.	5	0 10	290 T	41·62	215
D ,, ,, (Rosuick Cottage)	G. W. Jevons, Esq.	5	1 0	250 T	42·65	222
Bosahan	Cornwall County Council	...	...	...	27·59	...
D†Penzance (Morrab Garden)	C. H. Benn, Esq.	5	1 0	55	42·97	231
D† ,, (St. Clare)	Rev. Preben. Hedgeland	5	1 0	213 T	44·37	221
D† ,, (Trengwainton)	T. Robins Bolitho, Esq.	10	1 0	400 T	47·91	189
Marazion	T. W. Field, Esq.	5	2 0	30	38·93	204
D§Falmouth (New Observatory) (R)	E. Kitto, Esq.	11	2 0	169 T	41·08	222
§ ,, (,, ,,)	,, ,,	8	2 0	169 T	40·75	216
,, (St. Mawes, Place)	J. S. Spry, Esq.	5	1 0	12	31·00	188
D ,, (Carclew)	Mr. J. Simmons	5	0 9	...	39·06	167
Phillack Rectory	Cornwall County Council	5	1 0	70 ⅄	31·16	182
St. Ives	,, ,, ,,	5	4 0	60 ⅄	34·70	202
Camborne	Rev. G. B. Hooper	8	3 0	317 T	41·20	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
CORNWALL—(*con.*)						
D Redruth (Trevince)	E. B. Beauchamp, Esq.	8	0 8	240 T	43·41	225
,, (Tolvean)	A. Lanyon, Esq.	5	0 9	365	42·39	217
D ,, (Trewirgie)	A. P. Jenkin, Esq.	5	1 0	399 ⅄	43·32	242
D ,, (Tehidy Park)	Mr. A. Mitchell	8	1 1	287 ⅄	42·83	226
D Truro (Killiow)	J. C. Daubuz, Esq.	5	1 0	230 T	39·98	205
,, (Royal Institution)	G. Penrose, Esq.	5	43 0	83 ⅄	39·34	197
D ,, (W.W., Lower Tregurrow)	W. J. Lean, Esq.	5	9 0	71 ⅄	38·96	176
D Probus (Lamellyn)	H. Tresawna, Esq.	5	0 6	230	37·19	163
St. Agnes	W. Whitworth, Esq.	5	4 6	318	35·61	221
D†Fowey (Menabilly)	Mr. W. H. Bennett	5	0 6	150	42·24	187
D Talland (Polperro)	H. E. Butler, Esq.	5	1 0	120	38·88	210
D†Fowey (Torfrey)	W. G. Mills, Esq.	5	0 6	300	40·75	186
D†St Austell (Trevarna)	W. M. Coode, Esq.	5	1 0	300 T	43·08	206
D Empacombe [Devonport]	J. Sandercock, Esq.	5	1 0	20 T	37·30	205
D Cremyll [Devonport]	W. Wonnacott, Esq.	5	1 6	17	35·88	214
D Looe (Railway Station)	L. J. Bateman, Esq.	5	1 6	20 B	40·58	209
D St. Germans (Trethill)	Lt.-Col. J. D. A. Roberts	5	2 0	200 B	34·86	183
D Looe (Morval)	Miss Florence Tremayne	5	1 0	150 T	40·24	179
,, (Bray St. Germans)	Mrs. George Sneyd	5	1 0	500 T	39·90	168
D Newquay (Tresillian House)	Col. E. Gully-Bennet	5	2 0	230	42·08	193
D†Lostwithiel (Lanwithan)	Miss Foster	5	1 0	80	42·64	183
Newquay (Reservoir)	Dr. C. C. Vigurs	5	1 0	210	35·08	...
D ,,	,, ,, ,,	5	1 0	100	31·88?	209
D Roche (Glencoe)	S. Browne, Esq.	5	0 9	602 T	44·07	222
D†Liskeard (Trevillis)	L. C. Foster, Esq.	5	1 0	320 ⅄	42·32	204
D ,, (Dean Terrace)	S. W. Jenkin, Esq., C.E.	5	1 1	400 ⅄	48·29	221
D Withiel Rectory	Rev. W. S. Cruddas	5	0 11	...	48·27	222
D St. Wenn (Trewollack)	W. H. L. Shadwell, Esq.	8	1 0	251 T	45·40	235
Saltash (Pentillie Castle)	Mr. W. T. Johnson	5	2 4	150 B	47·99	203
St. Mellion Rectory	Rev. F. T. Wintle	5	1 0	400 T	44·44	206
D Bodmin (Treledan)	H. D. Foster, Esq.	5	0 5	290	45·71	231
D ,, (Castle Hill)	Rev. Prebendary Every	5	0 9	480 T	46·19	245
Liskeard (St. Cleer Down)	S. W. Jenkin, Esq., C.E.	5	1 1	620 T	44·15	...
D Callington (Pencrebar)	Miss A. H. Horndon	5	1 9	450 T	40·84	205
D ,, (Mount Lodge)	G. Brown, Esq.	8	1 0	400	47·14	207
D St. Mabyn (Pencarrow)	Mr. A. C. Bartlett	5	1 0	...	42·12	235
Callington (Drakewalls)	Mr. C. A. Wadge	5	3 0	650 T	44·53	187
D Launceston (Landue)	Miss S. E. Tregoning	5	0 11	225 T	43·41	216
D Altarnon Vicarage	Rev. A. H. Malan	5	1 0	620 ⅄	59·54	244
D Launceston (Tamar Terrace)	Captain L. Ching, R.N.	5	0 10	446	39·47	204
Egloskerry (Tregeare)	E. G. B. Lethbridge, Esq.	5	1 0	575	48·23	...
North Tamerton (Ogbeare)	Mr. J. S. Bray	5	5 0	460 T	38·22	185
D ,, ,, (,, Hall)	Rev. W. Clifton-Mogg	5	1 6	440	37·41	210
Stratton (Poughill)	Cornwall County Council	...	...	200	40·93	242
D Morwenstow Vicarage	Rev. H. Lynne Jones	5	0 10	331 ⅄	39·99	240
SOUTH SOMERSET.						
Chard (Tatworth)	Rev. H. Stuart King	5	1 3	347 ⅄	36·12	183
Cricket St. Thomas	Mr. S. Lyon	5	1 0	444	34·68	181

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.		Height Above SeaLevel	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft.	in.	feet.	inches.	
SOUTH SOMERSET—(*con.*)							
D Crewkerne (Bincombe House) ...	Miss Sparks	5	1	2	294 ⅄	30·86	182
D ,, (Merefield House) ...	J. Tompsett, Esq.	8	14	5	240 ⅄	32·19	177
Ilminster (Laurel Bank)	W. Beckwith, Esq. ...	5	1	0	180 T	27·82	191
D ,, (Whitelackington Ho.)	S. Creed, Esq.	5	3	0	200 ⅄	27·50	179
D Yeovil (Gas Works)	E. Howell, Esq.....	5	22	0	122 T	24·80	149
D ,, (Sew. Wks., Pen Mill) ...	Dr. H. Page	5	1	0	101 ⅄	25·78	198
D ,, (Kingston)	J. H. Burt, Esq.	5	6	0	186 T	26·08	175
D South Petherton (Yeabridge) ...	Miss E. F. Blake	8	0	9	100 T	25·87	173
D Stoke-under-Ham	Miss Gillett.....	5	1	0	...	27·17	188
Henstridge	Mr. G. H. Hacker	5	1	1	270 T	34·71	196
Taunton (Blagdon Reservoir) ...	H. T. Coles, Esq.	8	1	6	590 ⅄	32·30	...
,, (Leigh Reservoir)	,, ,, ,, ...	8	1	6	525 ⅄	31·29	...
D ,, (Leigh Court).....	A. Eastwood, Esq.....	8	1	0	350 T	30·30	181
D ,, (Ashleigh)	W. A. Gunner, Esq....	5	1	0	78 B	25·03	166
,, (,,)	,, ,, ,, ...	5	12	6	78 B	23·66	162
D ,, (Linden Grove)	H. Le B. Gunner, Esq.	5	1	0	70	25·31	180
D Wellington (The Avenue)	F. J. Burnett, Esq. ...	5	1	0	254 T	28·08	200
Rimpton	H. H. G. Andrews, Esq.	8	3	0	100	22·20	...
Temple Combe Rectory	Rev. J. C. Fox	5	0	6	215	35·20	220
Sutton Montis	Rev. H. A. Boys	...	...		...	29·08	185
D Milverton (Spring Grove).....	C. Roberts Gawen, Esq.	5	0	8	500 T	31·79	188
,, (Olands)	Dr. W. H. Symons ...	5	1	0	330 T	32·46	170
D Langport (The Grange).....	Dr. H. Page	5	1	0	50 ⅄	24·13	193
D Milverton (The Mount, Halse)...	Miss J. E. Smith	5	1	2	254	31·55	200
D Maperton Rectory	Rev. D. E. Norton.....	5	1	0	367 ⅄	35·03	245
D North Cadbury Rectory	Rev. H. A. Boys	8	1	3	256 ⅄	31·52	203
,, ,, (Woolston)	,, ,, ,, ...	...	...		...	32·61	164
D Wincanton	Rev. Walter Farrer ...	5	1	0	300	35·56	216
,, (Holbrook)	Mrs. Angerstein.....	5	2	5	450 T	34·39	...
Somerton (Kingweston)	Rev. G. de Y. Aldridge	5	2	6	200 T	31·41	211
Cothelstone House.....	C. E. J. Esdaile, Esq...	5	1	0	430	33·00	182
D North Petherton (The Old Rectory)	E. C. Curtis, Esq.	8	0	6	136 ⅄	28·55	184
Winsford Vicarage	Rev. Preb. Anderson ..	5	1	2	623	53·58	...
Exford (North Ley)	Mr. F. G. Heal	5	5	6	1000	47·78	...
D Simonsbath.....	Rev. H. F. Ramsey ...	5	1	3	1080 T	70·49	220
Bridgwater (Nurseries)	Mr. H. Corder	5	0	6	30 ?	25·57	170
D ,, (Ashford)	F. Parr, Esq., C.E. ...	5	1	5	102 ⅄	28·36	154
D Cannington (Brymore)	H. H. P. Bouverie, Esq.	5	1	6	65 T	29·47	149
Williton (Aller Farm)	Mr. T. Hosegood	5	3	6	200	29·91	...
Quantockshead (St. Audries) ...	Mr. F. S. Hayne	8	1	0	250	25·89	...
,, (,, Rec.)	Rev. H. Cooper	5	2	2	405 T	29·08	172
D Holford (Woodlands House) ...	Miss I. L. Joseph	5	1	0	391 T	29·85	189
Dunster (Alcombe)	Rev. J. Utten Todd ...	5	1	0	85	28·49	180
Stockland Bristol Manor House..	Rev. H. A. Daniel.....	5	1	0	65	25·39	155
Porlock (Bossington).....	J. Dyke Acland, Esq...	5	1	3	44 T	32·43	188
NORTH SOMERSET.							
D Somerton (Butleigh Court)	R. Neville Grenville Esq.	8	1	2	95	29·91	159
D Bruton (Sunny Hill).....	F. K. Makins, Esq. ...	5	1	0	310	33·87	203

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
NORTH SOMERSET—(*con.*)						
D Bruton (King's School)	D. E. Norton, Esq.	5	1 2	200	37·33	220
D Street	W. S. Clark, Esq.	8	1 0	100	30·30	193
Glastonbury (Ivydene)	J. Spire, Esq.	8	7 0	94 ⅄	25·90	177
Edington	A. C. F. Luttrell, Esq.	5	1 3	90 T	29·61	179
D Shepton Mallet (Pilton)	J. Dredge Allen, Esq.	5	1 3	354 ?	35·58	192
D Glastonbury (Ynyswytryn)	Mrs. Swayne	5	1 8	245 T	28·58	199
D Cranmore (Southill House)	S. Poyntz-Wright, Esq.	5	1 0	635 T	41·74	219
D ,, Hall	Rt Hon Sir R H Paget, Bt.	8	1 0	600 T	44·66	209
D Shepton Mallet (Charlton)	C. E. Burnell, Esq.	5	1 0	481 ⅄	40·63	205
D ,, ,, (Field House)	F. H. Berryman, Esq.	5	1 0	500	41·28	191
D ,, ,, (Grammar School)	William Aldridge, Esq.	5	1 0	475	39·96	202
,, ,, (Sewage Farm)	Dr. W. H. Symons	5	0 9	310 ⅄	40·94	178
D ,, ,, (,, ,,)	W. Readen, Esq.	5	0 8	...	39·51	202
D Wells (Blue School)	A. T. Powell, Esq.	8	1 3	125	36·40	201
D ,, (The Deanery Gardens)	Mr. A. King	5	1 0	170 ⅄	37·58	203
D Frome (Mells)	Miss E. G. Horner	5	1 0	342 ⅄	38·31	187
D ,, (Orchardleigh)	Rev. W. A. Duckworth	8	0 10	303 T	32·93	171
D ,, (Beckington)	E. M. Nelson, Esq.	8	1 3	270 ⅄	31·97	195
D Stratton-on-the-Fosse (Downside Abbey)	Rev. F. P. Whiteside	8	1 0	600 T	43·90	196
D Chewton Mendip (The Priory)	The Earl Waldegrave	5	1 5	550 T	47·80	206
,, ,, (Waldegrave Ho.)	J. Hansford Hill, Esq.	10	4 6	450	45·15	...
Ston Easton	H. E. Hippisley, Esq.	5	3 0	480 ⅄	42·89	193
E. Harptree (Sherborne Reservoir)	J. A. McPherson, Esq CE	5	1 0	338 T	40·04	182
D ,, ,, (Harptree Court)	W. W. Kettlewell, Esq.	5	1 0	346 ⅄	45·50	194
Axbridge (Winscombe Court)	late Rev. R. F. Follett.	8	1 0	180 T	33·04	...
Blagdon (Nordrach-on-Mendip)	R. Thurnam, Esq., M.D.	5	0 4	862 ⅄	44·32	208
D Hallatrow Court	Sir J. A. Woolfryes, KCB	5	1 0	316 T	39·05	185
D Camerton Court	Miss Jarrett	5	1 0	340 ⅄	36·06	149
D Temple Cloud	Dr. Theodore Martin	5	1 0	340 T	37·36	199
D High Littleton Vicarage	Rev. A. M. Foster	5	1 0	442 ⅄	33·81	209
D Winscombe (The Down)	J. Grubb, Esq.	5	1 0	295 T	36·92	195
D Hutton Rectory	Rev. W. F. Rose	5	1 0	75 ?	32·79	181
D Banwell (Eversley)	Kenneth Anderson, Esq.	5	1 6	50 T	33·36	179
Blagdon	J. A. McPherson, Esq. CE	8	0 8	115 ⅄	34·19	186
D Pensford (Sutton Court)	Sir E. Strachey, Bt. M.P.	8	1 0	280	34·41	196
D Churchill (Springfield)	S. B. Pumphrey, Esq.	5	1 1	...	30·43	167
D Weston-spr.-Mare (Leycroft Ho.)	C. Brown, Esq.	8	1 0	15	29·65	156
§ ,, ,, ,, (Town Hall)	Royal Meteorological Soc	5	1 0	21	29·06	167
,, ,, ,, (Beaufort Rd.)	W. A. Fussell, Esq.	7	5 0	23 T	30·83	...
D ,, ,, ,, (Worle)	Dr. St. John Kemm	5	1 0	...	32·21	203
Bath (Combe Hay Manor)	F. G. Smart, Esq.	5	1 0	...	36·39	208
D Wrington (The Rectory)	Rev. G. M. Ashdown	5	5 0	68	31·14	170
D ,, (West Hay)	Miss Mary B. Harrison.	5	2 0	100 T	31·83	175
Chew Magna	J. A. McPherson, Esq CE	5	1 4	180 T	33·31	170
D Pensford Vicarage	Rev. H. H. Tripp	5	1 0	245 ⅄	30·92	199
Bath (Royal Institution)	Dr. W. H. Symons	6	8 0	75	27·43	...
,,	*Registrar Gen. Returns*	...	...	84	27·34	161

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
NORTH SOMERSET—(*con.*)						
D§Bath (Henrietta Park)	Dr. W. H. Symons ...	5	1 0	67 ⅄	27·24	174
D ,, (Statutory Hospital)	,, ,, ,, ...	5	1 0	520	31·07	163
D ,, (Kingswood School)	,, ,, ,, ...	5	1 0	620 ⅄	28·73	160
D ,, (Hampstead, Combe Park)	,, ,, ,, ...	5	1 0	165 ⅄	26·80	159
D ,, (Somerset Place)	R. Lewis Lloyd, Esq...	5	0 10	350	30·72	214
,, (Charlcombe)	J. Dent Young, Esq. C.E.	8	2 0	325 T	26·30	180
D Batheaston	Col. Linley Blathwayt.	5	1 0	166 ⅄	28·92	185
,, M	,, ,, ,,	5	1 0	166 ⅄	28·86	...
D ,, Reservoir	J. Dent Young Esq., C.E.	6	2 0	248 ⅄	29·99	203
Yatton (Chelvey)	J. A. McPherson, Esq. EC	8	0 8	60	29·99	150
Barrow Gurney Reservoir	,, ,, ,,	5	1 6	300 T	32·09	183
D Long Ashton Estate Office	H. B. Napier, Esq. ...	8	1 0	134 ⅄	30·37	160
D Flax Bourton (Tyntesfield)	late Antony Gibbs, Esq.	5	1 7	320 T	29·02	164
D Clevedon (The Knoll)	Miss Woodward	5	1 0	120 T	29·43	163
D ,, (Water Works)	E. Button, Esq.	5	0 9	28 ⅄	30·41	193
Bristol (Coronation Road)	H. C. Martin, Esq. ...	5	0 10	50	27·54	...
Wraxall (Boys' School)	Mr. Ebenezer Brown...	5	1 2	...	28·88	...
,, Rectory	Rev. H. Vaughan	5	2 0	191	35·24	209
D Abbots Leigh	Sir Henry Miles, Bart.	5	1 0	320 T	31·78	171
D†Failand House [Bristol]	Miss Agnes Fry	5	1 0	385 T	33·61	196
† ,, School [,,]	,, ,, ,,	5	1 0	332	29·60?	...

DIVISION VI.—WEST MIDLAND COUNTIES.

WEST GLOUCESTERSHIRE.						
Monkswood Reservoir [Bath]	J. Dent Young Esq., C.E.	5	1 0	365 T	30·13	210
D Bristol Docks (Underfall Yard)	W. W. Squire, Esq., C.E.	8	19 6	45 ⅄	25·97	170
,, (Telephone Avenue)	J. A. McPherson, Esq. CE	5	50 0	80	28·09	173
D Clifton (Harley Place)	Miss Hooper	5	1 5	260	29·31	192
D ,, (Durdham Down)	Mrs. Dix	6	1 6	310	31·53	193
D ,, (Pembroke Road)	R. F. Sturge, Esq. ...	8	0 10	215	32·06	185
D§ ,, College	D. Rintoul, Esq.	8	1 2	230	30·13	164
D ,, (Stoke Bishop)	H. L. P. Lowe, Esq. ...	8	1 3	230 T	31·60	179
,, (,, ,, Pitch and Pay)	C. Thomas, Esq.	5	1 3	250 B	33·86	...
D Fishponds (The Grove)	H. H. Harding, Esq....	5	1 0	160 T	29·14	179
D Bristol (Ashley Down)	P. W. May, Esq.	8	1 1	166	29·29	191
Westbury-on-Trym (Cote House)	Mrs. Ames	8	1 3	243 ⅄	32·49	174
Pucklechurch	Rev. S. G. Gillum	5	0 10	374 T	29·80	197
D Avonmouth (Bristol Docks)	W. W. Squire, Esq., C.E.	12	3 2	12	26·43	179
D Filton	F. W. Gayner, Esq. ...	5	2 0	200	27·04	172
D Winterbourne (Kendleshire)	J. Marsh, Esq.	5	1 0	170 T	26·90	171
D Chipping Sodbury (Stanshawes Ct)	R. N. Hooper, Esq. ...	5	1 3	280 ⅄	30·11	178
D ,, ,, (The Ridge)	P. Burges, Esq.	5	1 4	375 T	30·62	172
Almondsbury (Over Court, Field)	R. C. C. Lippincott, Esq.	5	1 0	300 ⅄	24·83	...
D ,, (,, ,, Park)	,, ,, ,,	5	0 11	147 ⅄	29·35	220
D ,, (,, ,, Garden)	,, ,, ,,	8	1 0	137 ⅄	27·87	219
Badminton	Mr. W. Nash	5	1 0	407	30·23	177

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
W. GLOUCESTERSHIRE—(*con.*)						
D Wickwar Rectory	Rev. Canon R. J. Lyon	5	1 0	260 ⅄	28·26	176
Alderley	the late Gen. R. Hale	5	1 0	310 T	31·27	..
Tortworth Court	The Earl of Ducie	8	1 0	264	25·67	173
D Sedbury Park [Chepstow]	Sir W. H. Marling, Bart.	8	1 0	150 T	29·61	176
Pen Moel [Chepstow]	Mrs. Price	5	1 0	240 T	33·58	191
D Berkeley (Castle Gardens)	Mr. R. Shore	5	1 6	62 T	26·19	149
D ,, (Sharpness Docks)	F. A. Jones, Esq., C.E.	5	3 6	50	26·81	156
D Amberley (Prairie Cottage)	C. C. Pratt, Esq.	5	1 2	660 T	28·76	172
D Chalford (Hyde House)	Piers F. Legh, Esq.	5	1 6	527 T	29·57	193
Lydney (Clanna)	Captain W. B. Marling	5	1 0	260 T	33·24	...
D Stroud (Stanley Park)	Capt W. J. Paley Marling	8	1 0	365 T	27·69	165
D ,, (Upfield)	Miss Stanton	5	1 0	226 ⅄	26·87	180
D Stonehouse (Wycliffe College)	W. A. Sibly, Esq.	5	1 0	125	25·37	160
,, (Parklands)	W. Grey Robinson, Esq.	8	2 6	103 T	25·15	175
D Whitminster	F. A. Jones, Esq., C.E.	5	1 0	32 ⅄	26·02	163
Haresfield Court	Mr. S. Pearce	5	1 0	100	25·32	183
D Harescombe Grange	Miss Mary Hutton	5	1 0	545 ⅄	25·95	198
§ Forest of Dean (Whitemead Park)	Meteorological Office	8	1 0	200	29·89	158
§ ,, ,, ,, (Blakeney Hill Lo.)	,, ,,	8	1 0	700	28·76	152
§ ,, ,, ,, (Worcester Lodge)	,, ,,	8	0 11	550	28·73	168
§ ,, ,, ,, (Braceland)	,, ,,	8	1 0	500	29·62	155
§ ,, ,, ,, (Edgehills Lodge)	,, ,,	8	1 0	700	29·92	162
§ ,, ,, ,, (Ruardean Hill Lo.)	,, ,,	8	1 0	900	32·06	183
D Longney Vicarage	Rev. W. E. Stewart	5	1 0	55 T	22·95	156
D Westbury-on-Severn (Chaxhill)	Mrs. Grant	5	3 0	122 T	28·95	168
D Quedgeley House	Col. Curtis Hayward	5	1 0	65 T	25·92	160
D Birdlip Hill (The Knap) ... *No. 1*	A. S. Helps, Esq.	5	1 0	800 ⅄	26·93	180
D ,, ,, (,, ,,) ... *No. 2*	,, ,, ,,	5	1 0	800 ⅄	27·38	180
D Witcombe Reservoir	R. Read, Esq., C.E.	8	3 0	297 ⅄	26·91	164
Mitcheldean (Blaisdon)	A. L. Statham, Esq.	5	1 0	117 ⅄	27·06	...
D Gloucester (Hempsted)	F. A. Jones, Esq., C.E.	5	1 0	72 ⅄	23·49	162
D ,, (Belgrave Road)	W. Piffe Brown, Esq.	5	1 0	52 T	23·09	176
,, (Denmark Road)	Harley Butt, Esq.	5	1 5	79 T	23·19	...
D ,, (Barnwood Vicarage)	Rev. F. H. Fowler	5	1 0	80	25·72	180
D ,, (Llanthony Lock)	E. D. Marten, Esq., C.E.	5	1 2	39 ⅄	23·23	180
D ,, (Wotton Asylum)	Dr. R. B. Smyth	8	0 9	88 ⅄	23·42	149
D Dowdeswell	J. S. Pickering, Esq., C.E.	5	0 10	357	28·12	159
D Gloucester (Maisemore Lock)	E. D. Marten, Esq., C.E.	5	1 1	39 ⅄	24·51	173
D Cheltenham (Northfield)	J. S. Pickering, Esq. C.E.	8	5 0	637 ⅄	25·22	171
D ,, (Hewletts Res.)	,, ,, ,,	8	1 6	419 ⅄	24·44	170
D ,, (Sandford)	,, ,, ,,	5	2 6	210	24·26	154
,, (Kemerton Lodge)	Rev. Percy Burd	5	1 0	211	22·70	175
§ ,,	Royal Meteorological Soc	5	1 0	185	24·48	165
D ,, (Prestbury)	J. W. Guy, Esq.	5	0 10	...	26·59	190
D Winchcombe	J. Halliwell, Esq.	5	1 2	295 T	30·67	193
D Tewkesbury (Upper Lode)	E. D. Marten, Esq., C.E.	5	1 0	41 ⅄	22·92	153
,, (Water Works)	J. S. Pickering, Esq. C.E.	5	1 0	47 ⅄	20·38	...
Wormington Grange (R)	R. E. S. Thomas, Esq.	8	0 10	200	27·22	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
EAST GLOUCESTERSHIRE.						
D Fairford (Kempsford)	A. T. Iles, Esq.	5	1 0	250 ?	24·76	184
D ,, (The Close)	W. Cobbett Arkell, Esq.	5	1 9	...	26·05	159
D ,, (Draycott)	C. W. Edmonds, Esq.	5	2 0	200	27·36	169
,, (The Croft House)	C. H. Bloxsome, Esq.	5	1 0	300	26·09	...
Lechlade (Southrop)	Thomas Arkell, Esq.	...	1 0	...	24·40	...
D§ Cirencester (Roy. Agricultl. Coll.)	Prof. P. G. Gundry	5	0 10	443	26·21	177
D ,, (Cripps Mead)	Mrs. Wilfred Cripps	5	0 8	366 ⅄	28·20	188
D ,, (Dollarward House)	C. P. Hooker, Esq.	5	1 6	366	28·94	194
D ,, (,, ,,)	,, ,, ,,	8	1 6	366	28·79	194
D ,, (Further Barton)	late Miss J. E. A. Brown	5	1 0	422 ⅄	29·88	189
D Fairford (Hatherop Castle)	Gardner S. Bazley, Esq.	5	1 0	410 T	29·60	189
D Great Barrington	H. J. Barrett, Esq.	5	1 6	430 T	29·20	162
D Northleach (Sherborne House)	Mr. A. Mitchell	5	1 0	420	29·61	168
D ,, (Leygore Manor)	Arthur E. Moss, Esq.	5	1 0	700	28·15	194
D Bourton-on-the-Water	E. W. Kendall, Esq.	5	1 6	434 T	28·98	163
,, ,, ,, (Chardwar)	G. F. Moore, Esq.	5	2 6	430	29·15	176
D Moreton-in-Marsh (Longborough)	the late W. Arkell, Esq.	5	1 0	575	29·35	173
†Chipping Campden (Braithwaite Ho.)	Fleetwood C. Varley, Esq	5	1 0	460 T	25·69	...
D† ,, ,, (Hidcote Ho.)	Major W. Wright	5	1 0	525	23·61	175
D† Mickleton (Greyrick House)	M. J. Salter, Esq.	5	1 0	233 T	22·18	170
HEREFORDSHIRE.						
D Walford-on-Wye (Vicarage)	Rev. Kentish Bache	5	3 0	112 T	24·64	174
D Ross (Broad Street)	H. M. Purchas, Esq.	5	1 3	123 T	23·33	186
D§ ,, (The Graig)	H. Southall, Esq.	5	1 0	213 ⅄	22·21	183
Upton Bishop (The Baches)	W. Hogarth, Esq.	5	1 0	300	20·48	...
Ross (Perrystone Court)	General Clive	5	1 3	...	22·76	167
Much Dewchurch (Bryngwyn)	Sir J. Rankin, Bart.	5	0 9	420 ⅄	27·09	176
Allensmore (Whitfield)	G. T. Bates, Esq.	5	1 3	452 T	26·73	...
D Much Marcle (Caerswall)	J. A. H. Charles, Esq.	5	1 0	423 B	28·55	192
D ,, ,, (The Mount)	T. Charles, Esq.	5	0 8	240 ⅄	25·29	198
D Vowchurch (Whitehouse)	Arthur S. Wood, Esq.	5	4 0	450 T	29·68	154
D Ledbury (Orchardleigh)	M. A. Wood, Esq.	5	3 6	180	25·22	156
D ,, (Underdown)	S. H. Bickham, Esq.	5	1 0	307 ⅄	25·33	168
,, (,,) ....M	,, ,, ,,	5	1 0	306 ⅄	24·83	...
D ,, (Putley Court)	J. Riley, Esq.	5	1 0	290	27·43	164
D§ Hereford (St. Michael's Priory)	A. F. Barratt, Esq.	8	1 0	291 ⅄	23·61	177
D ,, (Breinton Court)	H. A. Wadworth, Esq.	5	3 0	238 T	21·86	154
,, (Hinton Court)	A. Battiscombe, Esq.	5	1 0	170 T	23·67	166
,, (Richmond Place)	W. Cooke, Esq.	8	0 8	184 ⅄	22·31	154
D ,, (St. Owen Street)	Mrs. Jay Jones	5	6 0	190 T	23·24	165
D Ledbury (Wellington Heath)	Rev F S Stooke-Vaughan	5	1 2	505 ⅄	28·61	184
D Lugwardine (The Laurels)	C. J. Johnstone, Esq.	5	1 0	270 ⅄	22·01	138
D Hereford (Holmer Hall)	Rev. Preb. M. Hopton	8	1 3	241	20·28	166
Yarkhill Vicarage	Rev. A. G. Jones	8	1 0	200 T	25·33	169
D Credenhill	R. M. Whiting, Esq.	5	1 0	280 T	23·71	165
D Hereford (Burghill Court)	Miss E. D. Woodhouse	5	0 10	293 T	23·66	182
D Ocle Pychard (Ocle Court)	G. Creswell, Esq.	8	1 2	298 ⅄	26·78	186

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
HEREFORDSHIRE—(*con.*)						
D Brilley Vicarage	Rev. W. Head	5	1 0	590 T	30·96	204
D Sarnesfield Rectory	Rev. W. Marshall	...	...	...	22·40	160
D Hope-u-Dinmore (Hampton Ct.)	J.S.Arkwright,Esq. MP	8	1 2	212 B	27·24	162
Pencombe Rectory	Rev. J.Seymour St.John	5	1 0	520 T	29·58	191
D Huntington Court	E.RadclyffeCrump,Esq.	5	1 1	833 T	34·12	220
D Pembridge (Dilwyn)	Dr. T. Lambert Hall	5	0 8	290 T	24·22	175
,, (Burton Court)	Col. P. L. Clowes	...	...	400	24·26	180
D Kington (Lynhales)	S. Robinson, Esq.	8	1 0	566	29·89	217
D ,, (Gravel Hill)	Col. G. F. Pearson	5	0 8	540 T	29·36	227
D Pembridge (Marston)	H. Langston, Esq.	5	1 5	347 ⅄	25·47	187
Bromyard (Rowden Abbey)	H. J. Bailey, Esq.	5	4 2	455 ⅄	26·89	171
D ,, (,, ,,)	,, ,, ,,	5	1 0	450 ⅄	27·41	172
D ,, (Buckenhill)	C. Childe Freeman,Esq.	8	1 6	410	26·87	168
Whitbourne Court	Lady Harington	...	...	...	25·57	...
D Leominster (Farm)	Miss Southall	5	1 5	268	24·19	190
SHROPSHIRE.						
D Ludlow (Ashford House)	W. Downes Hall, Esq.	5	0 5	315 T	29·76	182
D ,, (The Sheet)	Rev. R. P. Dansey	5	1 0	370 T	27·20	184
D Bromfield (Oakly Park)	Mr. T. Reason	5	1 0	300	25·90	203
D ,, Vicarage	Rev. Preb. W. Selwyn.	5	1 0	300 T	24·79	173
D Clunbury Vicarage	Rev. W. Clark Maxwell	5	1 0	497 ⅄	25·61	168
D Craven Arms (Stokesay Vicarage)	Rev.W.M.D. La Touche	5	1 0	372 ⅄	23·90	190
D Culmington Manor	J. H. Ismay, Esq.	5	1 0	536 ⅄	25·36	210
Bishops Castle (Totterton)	W. H. Whitaker, Esq.	5	0 7	700	28·61	...
D ,, ,, (Castle Street)	E. Griffiths, Esq.	5	2 0	720 B	26·80	191
D ,, ,, Vicarage	Rev. C. E. Warner	5	1 6	596 ⅄	29·65	203
,, ,, (Lydham Manor)	A. H. Sykes, Esq.	8	1 6	740	23·30	...
,, ,, (More Rectory)	Rev. Ridley Relton	6	0 11	600 T	27·34	...
Bridgnorth (Coton Hall)	E. M. Wakeman, Esq.	5	1 6	460	23·42	146
D† ,, (Hookfield House)	Rev. Preb. F. Burd	5	0 11	273 ⅄	24·73	195
D ,, (Cantreyn Bank)	Rev. H. M. Stallybrass	6	3 9	320 ⅄	19·08	147
D ,, (Aldenham Park)	Mr. T. Canning	5	3 9	430 T	22·86	156
D Church Stretton (Preen Manor)	Mr. J. Hopkins	5	1 0	700 T	23·83	174
D ,, ,, (Wolstaston)	Mrs. E. D. Carr	5	1 0	800 ⅄	29·22	199
D Much Wenlock (Willey Park)	Lord Forester	5	1 0	502 ⅄	26·67	193
Minsterley (Hampton Hall)	J. Whitaker, Esq.	...	1 0	630 T	28·75	...
D ,, (Wallop)	Mrs. Severne	8	1 8	700 T	32·27	193
Westbury (Winsley Hall)	Gen.Hon.W.H. Herbert	8	1 3	365 T	26·02	219
D Shifnal (Hatton Grange)	RtHonCol.Kenyon-Slaney MP	5	4 4	262	27·65	209
D ,, (Neachley)	Col. Hon. F. Bridgeman	5	1 6	280 T	28·13	181
D ,, (Haughton Hall)	W. J. Brooke, Esq.	5	3 0	355 ⅄	28·26	192
D Shrewsbury (The Abbey House)	Miss F. Rouse Boughton	8	1 3	171 ⅄	20·99	194
,, (Corporation Yard)	W.ChappleEddowesEsq	8	1 3	174 ⅄	22·78	157
§ ,,	Meteorological Office	8	1 0	212	20·63	179
D ,, (Highfield)	T. M. Howells, Esq.	5	4 6	250 ⅄	21·99	185
§ ,, (Roden)	RoyalMeteorologicalSoc	8	1 0	209	23·25	167
D ,, (Fitz Rectory)	Rev. W. Brewster	5	1 2	238 ⅄	23·72	222

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground		Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in	ft.	in.	feet.	inches.	
SHROPSHIRE—(*con.*)							
Shrewsbury (Fitz Manor)	Major J. F. Horner	5	1	4	253 ⅄	22·77	193
D Newport (Aston Hall)	Col. R. Leeke	5	1	4	280	28·48	186
,, (Agricultural College)	P Hedworth Foulkes Esq	5	1	0	220	25·53	190
D ,, (Edgmond)	J. Bodenham, Esq.	8	1	0	261 T	27·64	196
,, (,,) ..... *weekly*	,, ,, ,,	5	1	0	261 T	27·92	...
D Cheswardine (Knighton Res.)	G. R. Jebb, Esq., C.E.	8	0	3	351 ⅄	32·11	201
D Oswestry (The Mount Reservoir)	G. W. Lacey, Esq., C.E.	5	1	0	698 ⅄	34·46	200
Market Drayton (Buntingsdale)	Mrs. Tayleur	8	3	0	276 ⅄	30·64	...
§ ,, ,, (Marley Mount)	Royal Meteorological Soc	5	1	0	...	29·14	200
Ellesmere (The Grange)	C. H. Ashton, Esq.	5	0	10	340	28·88	209
STAFFORDSHIRE.							
D Netherton (Lodge Farm Res.)	G. R. Jebb, Esq., C.E.	5	1	0	445 ⅄	25·18	155
D Dudley (Shavers End)	H. A. Hill, Esq., C.E.	5	1	0	744 T	26·72	179
D West Bromwich	A. D. Greatorex, Esq. C.E	8	4	9	546 ⅄	26·12	166
D Wombourne (The Bratch)	Baldwin Latham Esq C.E	5	0	9	271	26·92	235
D Wednesbury (Ocker Hill)	G. R. Jebb, Esq., C.E.	5	0	8	474	23·44	167
D Walsall (Brockhurst Sew. Farm)	R. H. Middleton, Esq. C.E	8	0	11	376 ⅄	29·49	191
D ,, (Wednesbury Sewage Wks.)	T. Wicks, Esq.	5	2	8	381 ⅄	25·62	173
D Bilston (The Lunt Outfall)	J. P. Wakeford, Esq., C.E	5	0	9	406 ⅄	26·41	182
†Wolverhampton (Graiseley)	R. E. W. Berrington, Esq	5	0	9	506 ⅄	25·58	167
† ,, (Town Hall)	G. Green, Esq., C.E.	5	15	6	481 ⅄	25·64	195
† ,, (West Park)	,, ,, ,,	5	1	4	432 ⅄	25·70	182
D ,, (Wrottesley)	Mr. E. Simpson	8	1	0	500	25·10	171
D Patshull Park	The Earl of Dartmouth	8	1	3	273	25·69	158
D Tamworth (Bonehill House)	late Lt.-Col. G Chichester	5	1	0	289 T	24·62	175
D Bloxwich (Sneyd Res.)	G. R. Jebb, Esq., C.E.	5	1	0	507 ⅄	25·12	159
D Hammerwich (Cannock Chase Res)	,, ,, ,,	5	1	0	475 ⅄	24·98	179
D Weston Park [Shifnal]	The Earl of Bradford	5	1	6	400 T	27·91	184
D Brewood (Belvide Res.)	G. R. Jebb, Esq., C.E.	8	1	0	367 ⅄	26·36	148
D Lichfield (St. John Street)	Dr. F. M. Rowland	5	0	10	269 T	26·50	208
,, (Maple Hayes)	A. O. Worthington, Esq.	5	0	11	380	24·05	...
D Penkridge (Rodbaston)	Mrs. H. Ward	5	1	0	324 ⅄	28·44	169
D Hednesford (Scout House)	H. A. Hill, Esq., C.E.	5	1	0	750 ⅄	24·14	156
Wichnor	Basil Levett, Esq.	5	0	8	100 ?	23·79	...
D Brocton (Brocton Lodge)	Mr. J. J. Gibbons	5	1	0	400	29·84	205
Shugborough	The Earl of Lichfield	5	1	0	260	31·15	223
D Burton (Hoar Cross)	F. W. Lycett, Esq.	8	4	0	400 T	28·93	167
D ,, (Rangemore)	Mr. W. Bennett	5	5	6	424 ⅄	26·89	179
,, (Hamilton Road)	M. L. Nicholas, Esq.	5	1	6	270	26·89	201
D ,, (Shobnall)	Messrs. Bass & Co.	5	5	6	156 T	25·62	173
Stafford (Eastgate Street)	C. H. Greaves, Esq.	5	1	2	...	27·85	...
,, (Tipping Street)	W. Fred. Wright, Esq.	5	2	6	258 ⅄	29·26	174
,, (West Bank, Doxey) M	Leslie Wilson, Esq.	5	0	6	280 T	28·83	...
D Eccleshall (Walton Hall)	Sir H. A. Wiggin, Bart.	5	1	3	344 T	32·32	180
D Hanbury Hall	Miss Caroline M. Bott	5	0	11	483 ⅄	28·13	163
D Market Drayton (Old Springs)	F. E. Harding, Esq.	5	1	0	423 ⅄	29·74	199
D Maer Hall Gardens	F. J. Harrison, Esq.	5	1	6	390 ⅄	32·37	174

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground		Height Above Sea level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft.	in.	feet.	inches.	
STAFFORDSHIRE—(*con.*)							
D§Cheadle (The Heath House).....	J. C. Philips, Esq.....	5	0	6	647 ⅄	34·27	213
D Longton (The Meir)	G.B.H.Soame,Esq.C.E.	5	1	0	618 ⅄	28·93	174
D Betley Hall [Crewe]	Col. J. A. Macdonald...	5	1	0	270	31·48	207
D Stoke (Hartshill)	J. W. Knight, Esq. ..	5	1	0	485 ⅄	35·21	201
D Mayfield House [Ashbourne] ...	Graham C. Lawson, Esq.	8	1	0	370	38·66	213
D ,, ,, [,,]*Snow g.*	,, ,, ,,	8	1	0	370	37·12	213
,, ,, [,,] *weekly*	,, ,, ,,	8	1	0	370	37·03	...
D Leek (Wall Grange)	G.B.H.Soame,Esq.C.E.	5	1	0	458 ⅄	38·04	194
Knypersley Reservoir	E. B. Smith, Esq., C.E.	5	3	1	550 ⅄	45·70	...
WORCESTERSHIRE.							
D Blockley (Upton Wold).....	E. W. Arkell, Esq. ...	5	1	0	...	29·85	142
Northwick Park.....	The Lady Northwick...	8	1	6	410 ⅄	27·94	...
Shipston (Tidmington House) ...	Miss Staunton	5	1	1	...	29·76	...
Upton-on-Severn (Willow Bank)	J. S. Cowley, Esq.....	5	1	3	42	26·78	184
D ,, ,, (The Eades) ...	Major E. W. Tennant..	5	0	9	100 T	25·92	182
Pershore (Woollas Hall)	Col. A. M. Blake, C.B..	5	0	9	400 B	26·18	166
†Evesham (Eastwick).....	C. Burlingham, Esq....	5	1	0	110	20·89	...
† ,, (Lansdowne)	R. Burlingham, Esq....	6	5	0	108 T	22·69	...
D Gt. Malvern (British Camp Res.)	W. Osborne Thorp, Esq., C.E.	5	0	11	677 ⅄	27·76	161
D ,, ,, (Church Street).....	,, ,, ,,	5	1	0	350 ⅄	28·32	166
D§ ,, ,, (Belle Vue House)...	A. Mander, Esq.....	5	4	0	520	28·55	174
D ,, ,, (Madresfield Court)..	Mr. W. Crump	8	2	6	125 T	24·68	170
D Shipston (Talton)	Capt. G. Lainson Field	8	1	0	160 ⅄	23·22	173
D Kempsey (Draycott House).....	Col.C.E.Southouse Scott	...	1	0	55	26·49	180
D Worcester (Boughton Park).....	Mrs. Isaac	5	0	8	82 T	25·02	186
,, (Bromwich House) ...	Rev Canon T Littleton Wheeler	5	0	10	86 T	22·48	175
D† ,, (Diglis Lock)	E.D. Marten, Esq., C.E.	5	1	0	49 ⅄	22·50	177
D† ,, (Belmont Road)	G. B. Wetherall, Esq..	5	1	6	180 T	22·48	172
D† ,, (Water Works)	T. Caink, Esq., C.E. ...	5	0	9	56 ⅄	22·48	175
D ,, (Bevere Lock)	E.D. Marten, Esq., C.E.	5	1	1	52 ⅄	23·19	166
Droitwich (Himbleton Manor) ...	Lady Galton	5	1	0	188 ⅄	22·73	...
Worcester (Hawford Lodge)	F. Ames, Esq.....	5	1	1	70	25·95	...
D Martley	Rev. J. F. Hastings ...	5	1	0	280 T	27·16	184
Droitwich (Holt Lock)	E.D. Marten, Esq., C.E.	5	1	1	55 ⅄	23·11	149
D Shelsley Walsh	Miss M. Constance Hadley	5	0	8	164 T	30·57	186
D Tenbury (Rochford)	Rev. J. Tomson	5	1	0	317 ⅄	23·55	147
D Redditch (Hewell Gardens)	Mr. A. A. Pettigrew ...	5	1	0	484 ⅄	28·84	166
D Bromsgrove (Tardebigge Res.)...	F. A. Jones, Esq. C.E.	5	3	0	433 T	25·80	181
D ,, (Stoke Reformatory)	Mr. J. Salter	5	5	4	225	23·24	143
D ,, (Barnt Green)	D. B. Grubb, Esq.....	5	1	0	494 ⅄	31·13	195
D ,, (,, ,, Upwood)	Miss M. Gibbins.....	5	0	9	650 T	24·39	172
D Stourport (Lincombe Lock).....	E. D. Marten, Esq., C.E.	5	1	0	62 ⅄	22·69	176
D ,, (Areley Hall)	S. Zachary Lloyd, Esq.	5	0	9	70 T	25·82	160
D Bromsgrove (Lower Bittal Res.)	F. A. Jones, Esq., C.E.	5	3	0	430 T	27·76	179
D†Bewdley (Beaucastle)	George Baker, Esq. ...	5	0	9	450 B	21·50	155
D† ,, (Winterdyne).....	Miss K. M. Sturt	5	1	0	...	22·37	169

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height above Ground.	Rain Gauge. Height above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet	inches.	
WORCESTERSHIRE—(*con.*)						
D†Kidderminster (Prospect Hill)...	Mr. J. T. Cowderoy ...	5	1 0	160 ⅄	21·81	162
Stourbridge (Pedmore)	E. B. Marten, Esq., C.E.	8	0 11	350 ⅄	27·90	190
,, (Longlands)	,, ,, ,,	8	0 9	258 ⅄	25·77	190
D Northfield (West Heath House).	Prof. Adrian J. Brown	5	1 0	...	29·82	199
D Halesowen (Frankley)	E. Antony Lees, Esq...	5	0 10	570 ⅄	29·14	194
D Kings Heath (Brandwood House)	G. F. Lyndon, Esq. ...	5	1 0	550 T	27·67	197
Selly Oak Cemetery	Mr. W. Garden	5	1 4	540 T	26·30	167
Stechford (Trebortha House) ...	H. H. Newark, Esq....	5	1 3	360 B	24·07	...
Moseley (Prospect Road)	Rev. F. Oscar Lane ...	5	1 0	550 T	27·58	...
Dudley (Trindle House)	E.B.Marten, Esq., C.E.	8	1 0	575	28·80	150
D ,, (Borough Cemetery) ...	J. Gammage, Esq., C.E.	...	...	590	25·30	179
WARWICKSHIRE.						
Long Compton (Weston Park)...	H. A. Warriner, Esq...	8	3 0	510 T	25·82	169
D Shipston (Honington)	W. L. Stanton, Esq. ...	5	1 1	222 T	26·92	186
,, (,, Vicarage)..	Rev. E. H. Boddington	5	0 10	215 T	25·67	171
D Farnborough	Miss Prater	5	1 0	515 T	31·28	209
D Stratford-on-Avon (Atherstone-on-Stour)	Rev. F. Smith	12	4 0	135	24·17	159
,, ,, ,, (Avonfield)	G. W. Everard, Esq....	5	0 10	120 T	24·29	145
D ,, ,, ,, (Shottery Hall)...	R. C. Carter, Esq.....	5	0 8	140 T	24·11	171
D Alcester (Ragley Hall)	The Marquis of Hertford	5	1 0	270 T	27·55	169
D Snitterfield	Roden Dixon, Esq.....	8	1 6	274	24·84	156
D Warwick (Barford Rectory).....	Rev. W. I. Brooke.....	8	0 11	167 ⅄	25·44	159
D Leamington (Radford House) ...	C. E. G. Hatherell, Esq.	5	1 2	240 T	25·17	183
D ,, (Binswood Avenue)	Rev. A. Corbet	5	0 9	...	25·06	170
Warwick (Hatton Vicarage) ...	Rev. H. Trethewy.....	5	1 0	384 T	26·83	179
Leamington (Cubbington).....	Mrs. Robins	5	1 0	280 T	24·60	...
D Kenilworth (The Spring)	Mr. W. Entwistle	5	1 0	312 ⅄	25·90	179
D Rugby (Temple Observatory) ...	O. M. Samson, Esq. ...	5	1 1	383 T	26·92	187
D ,, (Bilton Grange).....	W.H.G.Southcomb, Esq	5	1 0	400	25·14	156
D Coventry (City Hospital)	E. H. Snell, Esq., M.D.	8	1 0	269 T	26·41	187
D ,, (Holyhead Road).....	J. B. Morris, Esq.	5	1 0	300 T	25·25	178
D ,, (Kingswood).....	R. B. Caldicott, Esq....	8	1 0	340 T	26·76	153
D Hampton-in-Arden (Hampton Manor)	Mr. Neil Sinclair	8	0 7	345 T	25·69	181
D Coventry (Keresley Grange).....	Miss H. Rotherham ...	5	0 10	413	27·22	209
D Birmingham (Sheldon Rectory)..	Mrs. Jones-Bateman...	8	1 0	323	32·58	181
D§ ,, (Edgbaston)	A. Cresswell, Esq.....	8	1 0	525 ⅄	26·87	170
Birmingham (Botanical Gardens)	A. Brown, Esq., C.E...	5	5 5	505 T	26·04	163
D ,, (The Crescent)	J. J. Gilbert, Esq.....	5	21 0	495 ⅄	24·21	155
,, (,, ,,) ...M	,, ,, ,, ...	5	7 0	480 ⅄	26·15	...
D ,, (Gravelly Hill).....	W. Ll. Mold, Esq.....	5	3 0	450	26·73	192
D Bedworth Cemetery	the late Mr. B. Bosworth	5	1 0	385 T	27·79	164
Nuneaton (Chilvers Coton Vic.)..	Rev. R. Chadwick	5	0 10	283 ⅄	25·31	...
D Witton Reservoir	E. Antony Lees, Esq...	5	3 0	347 ⅄	24·54	172
D Whitacre (Birmingham W.W.)..	,, ,, ,,	5	1 5	269 ⅄	25·35	178
D Sutton Coldfield (The Park).....	Mr. H. Harlond.....	5	1 0	371 ⅄	25·36	170

DIVISION VII.—NORTH MIDLAND COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
LEICESTERSHIRE.						
Lutterworth (Walcote)	Major Corbet Smith	5	0 6	290 T	29·47	...
East Langton Grange	J. W. Logan, Esq.	5	1 0	...	25·74	...
D Kibworth Beauchamp	E. V. Phillips, Esq.	5	2 6	390 T	26·43	163
D Wistow Hall Gardens (R)	Mr. F. J. Clark	5	1 1	310	24·74	163
Hallaton Hall	S. N. Bankart, Esq.	8	1 3	366	27·16	130
Newton Harcourt	Hon. T. F. Fremantle	5	1 0	350 T	23·38	...
Horninghold House	A. Cross, Esq.	5	1 6	380	26·08	...
,, ,, ...*float g.*	,, ,,	6	2 0	380	23·30	...
D Blaby	G. F. Shoults, Esq.	5	0 6	236	24·87	178
D Glen Parva (S. Wigston Sew. Fm.)	Mr. W. G. J. Clark	8	0 5	231 ⅄	24·25	156
D Leicester (Town Hall Square)	E. G. Mawbey, Esq., C.E.	5	0 6	211 ⅄	23·23	185
D† ,, (,, ,, ,,)(R)	,, ,, ,,	7	2 0	213 ⅄	23·07	178
,, (Humberstone Asylum)	J. E. M. Finch, Esq., M.D	8	1 0	266 ⅄	24·81	189
Old Humberstone	W. R. Kendall, Esq.	5	2 0	297 T	25·76	...
Withcote Hall	Miss Palmer	5	...	500	28·79	...
D Thornton Reservoir	Leicester W W Committee	8	1 2	371 ⅄	29·23	174
D Thurcaston (Cropston, Bradgate Res.)	,, ,, ,,	8	1 0	246 ⅄	27·41	181
D Barkby Hall	Victor R. Pochin, Esq.	5	0 3	217 ⅄	26·18	182
D Syston	S. K. Daniels, Esq.	5	1 6	180 T	24·73	157
D Swithland (The Brand)	Leicester W W Committee	8	1 0	172 ⅄	25·50	172
D Rearsby Rectory	Rev. G. Hassall	8	1 2	202	24·62	168
D Ratcliffe-on-Wreake College	Rev. J. Cremonini	5	1 0	300	21·65	143
D Ashby-de-la-Zouch (Cole Orton Hall)	F. A. Smith, Esq.	5	2 0	540 T	28·01	178
D Barrow-upon-Soar	Mrs. C. Stuart Thomson	5	1 6	...	24·43	153
D Charnwood Forest (Blackbrook Res.)	A. H. Walker, Esq., C.E.	8	1 0	310	28·67	176
D Loughborough (Nan Pantan Res.)	,, ,, ,,	8	1 0	269 ⅄	26·10	161
,, (The Widenings)	Adrian Young, Esq.	5	0 7	165 T	25·83	192
D ,, (Sewage Farm)	A. H. Walker, Esq., C.E.	8	1 0	134 ⅄	23·94	170
D Burton-on-the-Wolds	late Lord Percy St. Maur	6	0 9	...	24·14	162
D Prestwold Hall	Hussey Packe, Esq.	8	1 0	209 ⅄	24·82	179
D Waltham-on-the-Wolds	G. Higgens, Esq.	5	1 0	568	22·27	184
D Belvoir Castle	W. H. Divers, Esq.	8	1 0	260 T	25·23	209
RUTLAND.						
Liddington (Uppingham W.W.)	Messrs G. & F. W. Hodson	5	1 0	152 ⅄	22·51	143
D Uppingham (Ridlington)	N. W. Wortley, Esq.	5	4 7	527	26·97	167
Tinwell (Glebe Farm)	H. Edwards, Esq.	5	1 1	...	25·61	166
D Whitwell Rectory	Rev. T. E. Woodhouse.	5	0 11	320	28·11	162
Tolethorpe Hall [Stamford]	C. O. Eaton, Esq.	8	0 8	161 T	23·34	...
D Market Overton	Miss Grace Wingfield	8	0 11	475 T	28·13	164
SOUTH LINCOLNSHIRE. (HOLLAND AND KESTEVEN.)						
D Market Deeping (Wilsthorpe)	J. C. Gill, Esq., C.E.	8	3 10	53 ⅄	23·45	155
D Holywell Hall	Col. Birch-Reynardson	...	...	190 ?	26·24	181
D Grantham (Stainby)	Rev. W. L. de B. Thorold	5	0 9	496	22·85	145
D ,, (Little Ponton Rect.)	Rev. P. R. Worsley	5	1 0	250 T	27·43	193

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
SOUTH LINCOLNSHIRE (HOLLAND AND KESTEVEN)—*con.*						
D Grantham (Denton Manor)	Sir C. G. E. Welby, Bt. CB	5	1 0	310	26·45	208
D ,, (Saltersford)	H. Preston, Esq.	5	0 6	188 ⅄	24·96	179
D ,, (Guildhall)	W. Shackleton, Esq. C.E.	5	13 6	202 ⅄	24·46	164
D ,, (High Street)	Messrs. R. & W. Bird	5	1 0	202	24·87	160
D Boston (Black Sluice, Skirbeck)	F. S. Robins, Esq., C.E.	8	1 3	11	23·42	176
D ,,	G. E. Clarke, Esq., C.E.	8	1 0	10 ⅄	22·98	162
D ,, (Grand Sluice)	J. H. Johnson, Esq., C.E.	8	8 0	18	21·83	161
D ,,	W. H. Wheeler, Esq. C.E	5	6 6	25 ⅄	23·70	159
D§Sleaford (Rauceby Hall)	Gen. Sir M Willson, KCB	5	1 0	125 T	28·61	188
D Leake (Lade Bank Engines)	J. H. Johnson, Esq., C.E.	8	1 0	10 ⅄	21·49	139
D Stubton [Newark]	G. Nevile, Esq.	5	4 6	99 T	23·15	177
D§Fulbeck	Rev. V. F. Willson	5	0 8	180 ⅄	23·02	194
Leadenham Rectory	Rev. V. E. Skrine	5	1 2	150	22·88	164
Sleaford (Bloxholm Hall)	Mr. W. Lumsden	5	1 6	68 ⅄	25·28	180
D Welbourn	Miss M. Burtt	5	3 6	120 T	22·71	180
§Temple Bruer	Miss A. S. Morley	5	1 0	300?	26·32	180
Navenby Rectory	late Rev. Canon Harvey	5	1 0	218 T	24·91	179
D Carlton-le-Moorland	J. Brocklebank, Esq.	5	1 2	49	22·74	148
Lincoln (Branston Hall)	A. S. Leslie Melville, Esq	5	1 3	122 ⅄	24·71	185
D ,, (Boultham)	Neil McK. Barron Esq. CE	5	1 8	19 ⅄	22·01	160
D ,, (Doddington Rectory)	Rev. R. E. G. Cole	5	1 2	92 ⅄	21·49	165
,, (Skellingthorpe Hall)	A. H. B. Coupland, Esq.	5	1 0	...	22·42	157
NORTH LINCOLNSHIRE. (LINDSEY.)						
D Carrington Grange	Mr. T. J. Ward	5	6 0	15 ⅄	23·33	161
§Horncastle (Mareham-le-Fen)	Meteorological Office	5	1 0	11	25·00	179
,, (Revesby)	J. Shaw, Esq.	5	2 0	135 ⅄	25·76	...
D Skegness	S. Coetmore Jones, Esq.	8	1 0	13	22·79	187
D Spilsby (Hagnaby Priory)	Miss Pocklington	8	1 8	47 ⅄	28·77	194
D ,, (East Keal Manor)	A. M. Wilson, Esq.	8	1 0	181 ⅄	25·21	195
D ,,	Dr. J. W. Walker	5	1 0	160 T	27·18	182
D ,, (Ashby Road)	J. J. Rainey	5	1 0	160 T	23·53	174
D ,, (Hagworthingham)	Mr. R. Wright	5	1 1	252 ⅄	27·81	167
D Horncastle (R)	H. K. Maynard, Esq.	5	1 6	110	25·61	181
Lincoln (St. Botolphs)	A. M. Swift, Esq.	5	1 2	25 ⅄	26·76	176
,, (Station)	Great Central Rly. Co.*	9	3 6	26	23·49	162
D ,, (Sessions House)	S. R. Moss, Esq.	5	1 0	59 ⅄	23·53	190
D ,, (The Close)	C. J. Bromhead, Esq.	8	1 0	185 ⅄	24·33	192
,, (D'Isney Place)	A. H. Leslie Melville Esq	4	1 0	215 L	24·66	192
Alford (The Burial Ground)	Mr. E. Hodgson	5	1 0	29 ⅄	21·01	165
D Scampton House	Mrs. G. E. Sandars	5	1 11	...	20·38	150
Willingham-by-Stow	R. C. Bacon, Esq.	5	1 6	70 T	22·33	185
Louth (Westgate)	Dr. F. Fawssett	5	0 9	120 ⅄	28·62	167
D Market Rasen	Mr. W. B. Jevons	5	0 8	84	26·14	146
,, ,,	Great Central Rly. Co.	9	3 6	100	23·21	182
§ ,, ,, (Tealby)	Meteorological Office	5	4 0	260	28·34	155

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

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
NORTH LINCOLNSHIRE (LINDSEY)—*con.*						
D Gainsborough (Morton)	J. A. R. Greaves, Esq.	5	1 0	22 ⅄	20·44	144
,, (N. Sandsfield)	Mr. J. Creed	5	2 3	23 T	20·76	...
D§ Caistor (Castlemount)	Mr. Thomas Ford	5	3 6	270	29·09	192
,, (Cabourne)	Rev. R. Thomas	5	1 2	280 T	28·93	...
Brigg	Great Central Rly. Co.	9	3 6	16	21·70	130
D ,,	A. Atkinson, Esq., C.E.	8	1 2	11 ⅄	25·75	190
D Irby-on-Humber	H. B. Parker, Esq.	5	1 0	175	26·23	200
D Grimsby (Abbey Road)	W. J. Wood, Esq.	5	3 0	23	22·96	163
,,	Great Central Rly. Co.	9	15 0	42	22·82	...
Barnetby	,, ,, ,,	9	3 6	51	27·33	143
D Brocklesby Park	Mr. F. C. Stainsby	5	2 0	108	26·40	169
D N. Level Engine [Thorne]	Mr. J. Turner	5	2 3	...	20·57	181
Crowle (Keadby)	Great Central Rly. Co.	9	...	17	19·14	138
D Burton on Stather Vicarage	Rev. F. A. Jarvis	5	1 6	212 T	24·54	166
D Thornton Curtis	Rev. C. B. Goodacre	8	1 4	66	25·66	163
D Horkstow	E. J. Turton, Esq.	5	0 10	75 ⅄	26·86	170
Ferriby Sluice	A. Atkinson, Esq., C.E.	5	1 0	18 ⅄	25·47	193
New Holland	Great Central Rly. Co.	9	3 6	18	25·99	147
NOTTINGHAMSHIRE.						
D Kingston (Midland Agric. Inst.)	F. Wakerley, Esq.	5	1 0	126 ⅄	21·27	165
D ,, Hall	Mr. W. H. Cooke	5	0 9	130	25·92	184
D Plumtree (Normanton-on-Wolds)	T. A. Hill, Esq.	8	1 0	170 ⅄	24·45	186
Cropwell Bishop (Cropwell Grove)	H. Smith, jun., Esq.	5	1 1	160 T	22·62	...
Bingham (Whatton Manor)	Capt. M. H. Hall	5	3 0	104 T	23·52	173
D Nottingham (Beeston Fields)	G. Fellows, Esq.	5	0 9	206 ⅄	26·47	185
,, (Trent Lane) (R)	A. Brown, Esq., C.E.	8	0 10	85 ⅄	21·77	167
D ,, (The Castle)	,, ,, ,,	8	1 2	192 ⅄	23·94	168
,, (,, ,,)	,, ,, ,,	8	76 0	268 ⅄	21·46	160
D ,, (Robinson Road)	F. W. Smallshaw, Esq.	5	1 0	165 T	25·30	176
D ,, (Carisbrook Ho., The Park)	W. Bradshaw, Esq.	5	2 0	247 T	24·25	166
D ,, (Talbot Street)	N. S. Ferris, Esq.	5	2 0	250	23·67	172
Radcliffe-on-Trent	T. Yates, Esq.	5	1 0	...	22·06	150
D Nottingham (Stoke Bardolph)	Mr. A. A. Avis	8	1 0	66 ⅄	22·47	167
D§ ,, (Strelley)	T. L. K. Edge, Esq.	8	1 0	396 ⅄	25·52	168
D§ ,, (,, Hall)	,, ,, ,,	5	1 0	379 ⅄	25·09	174
D§ ,, (,, ,,)	,, ,, ,,	5	1 0	378 ⅄	24·88	175
§ ,, (,, ,,) M	,, ,, ,,	5	1 0	379 ⅄	25·35	...
D ,, (Mapperley Hill)	E. Powell, Esq.	8	1 0	400 T	24·25	166
Bagthorpe (Isolation Hospital)	P. Boobbyer, Esq., M.D.	...	1 0	189	22·89	186
D Nottingham (Basford)	F. W. Davies, Esq.	8	1 0	169 ⅄	23·88	179
,, (,, Hall)	A. Brown, Esq., C.E.	...	...	...	25·72	...
D ,, (Burton Joyce W.W.)	F. W. Davies, Esq.	8	0 9	64 ⅄	24·03	178
Bulcote (Corporation Farm)	A. Brown, Esq., C.E.	...	1 3	65	23·00	153
Lowdham (Chilwell Nurseries)	Mr. J. D. Pearson	5	5 6	90	19·54	...
D Bulwell (Watnall Reservoir)	F. W. Davies, Esq.	8	0 11	472 ⅄	26·24	173
,, (Springfield)	G. W. Walker, Esq.	5	0 9	166 ⅄	24·77	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above SeaLevel	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
NOTTINGHAMSHIRE—(*con.*)						
D Bulwell (Bestwood)	F. W. Davies, Esq.	8	1 2	317 ⅄	25·68	173
D Daybrook (Ramsdale Hill Res.)	,, ,, ,,	8	0 10	495 ⅄	26·05	190
D Eastwood Colliery	J. W. Fryar, Esq.	5	1 0	245 T	28·87	182
D Hucknall Torkard (Forge Mills)	J. D. Walker, Esq.	5	4 3	200 ?	24·06	156
D Gonalston Rectory	Rev. F. H. Paley	5	1 0	84	24·40	192
D Papplewick (Water Works)	F. W. Davies, Esq.	8	0 10	317 ⅄	25·78	175
Annesley (Selston W.W.)	MessrsG.&F.W.Hodson	5	1 0	475 ⅄	24·55	168
†Southwell (Westhorpe Hall)	General Warrand	5	1 0	147 ⅄	25·21	...
D†Farnsfield	Dr. C. Wills	5	1 0	210 T	25·79	198
†Sutton-in-Ashfield W.W.	MessrsG.&F.W.Hodson	5	1 1	462 ⅄	25·48	173
†Mansfield (W.W. Rainworth)	,, ,, ,,	5	1 0	360 ⅄	27·81	167
,,	Mr. P. J. Shacklock	5	1 0	330	32·82?	215
D† ,, (West Bank)	W. Pickard, Esq.	8	1 0	405 T	27·51	191
D North Collingham	E. Turton, Esq.	5	1 0	28 T	23·24	180
D South Scarle Vicarage	Rev. E. C. Shawfield	5	1 4	52	19·32	140
Ossington	W. E. Denison, Esq.	12	3 6	150 T	27·38	...
D Ollerton (Edwinstowe Hall)	Mr. J. Busby	5	0 8	...	22·24	180
D ,, (Boughton W.W.)	F. W. Davies, Esq.	8	0 7	141 ⅄	23·55	170
D ,, (Thoresby Gardens)	Mr. A. Simmons	8	0 9	125	25·20	150
†Welbeck Gardens	Duke of Portland, K.G.	8	0 9	196 T	26·30?	...
Clumber Gardens	A. P. Elliott, Esq.	5	4 0	170	24·31	...
Worksop	Great Central Rly. Co.	9	3 6	127	23·17	185
D ,, (Osberton Gardens)	Mr. J. B. Allan	5	3 6	70	22·34	176
Retford	Great Central Rly. Co.	9	3 6	52	20·44	168
D ,, (Morton Hall)	W. H. Mason, Esq.	5	1 0	140	23·13	169
,, (Babworth Hall)	Col. H. Denison	5	1 0	92 ⅄	20·19	...
D†Worksop (Hodsock Priory)	H. Mellish, Esq.	8	1 0	56 ⅄	23·43	179
† ,, (,, ,,)... M	,, ,,	5	1 0	56 ⅄	22·79	...
† ,, (,, ,,)...(R)	,, ,,	11	1 6	56 ⅄	22·89	171
The Gardens [Bawtry Hall]	Mr. J. H. Stride	5	1 3	31 T	18·51?	...
Stockwith	Great Central Rly. Co.	9	3 6	21	21·36	164
D§Bawtry (Hesley Hall)	B. I. Whitaker, Esq.	8	0 11	61 T	20·57	168
DERBYSHIRE.						
D Melbourne Vicarage	Rev. Canon Singleton	5	1 0	177 ⅄	27·55	172
D ,, (The Hollow)	Mr. W. Garratt	5	1 0	182 ⅄	24·49	149
D Chellaston	H. Chambers, Esq.	5	1 0	170 T	24·84	179
Willington (W.W. Milton)	MessrsG.&F.W.Hodson	5	1 0	134 ⅄	23·92	135
Findern (The Longlands)	Rev. B. W. Spilsbury	5	0 9	186 ⅄	23·58	162
,, (Mill Hill Farm)	G. L. Spilsbury, Esq.	6	1 6	243	24·87	162
D Etwall (Blakeley Lodge)	Mr. R. Giles	5	1 0	190 ⅄	23·86	142
Mickleover (County Asylum)	R. Legge, Esq., M.D.	5	3 0	300 T	24·62	177
D ,, Manor	Mr. J. Campbell	5	2 0	200	27·05	174
D Derby (Wild Street)	Messrs. J. Davis & Son	5	1 0	174	28·10	197
D† ,, (Midland Railway)	J. Sayers, Esq.	5	1 5	156 ⅄	23·83	191
D§ ,, (Royal Infirmary)	W. G. Carnt, Esq.	5	1 0	195	26·54	204
D ,, (Arboretum)	J. Ward, Esq., C.E.	8	1 0	196 ⅄	27·74	180
D ,, (Duffield Road)	Dr. W. G. Copestake	5	8 0	192 ⅄	25·68	189

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
DERBYSHIRE—(*con.*)						
Derby (Duffield Road) .....M	Dr. W. G. Copestake...	5	0 10	184 ⅄	30·24	...
D Kirk Langley (Langley Hall) ...	G. W. Peach, Esq. ...	5	1 10	396 T	*29·83*	182
D Breadsall Lodge.....	Col. W. B. Woodforde.	5	1 3	280 T	26·55	204
D Duffield (Castle Hill House).....	Messrs. J. Davis & Son	...	...	...	27·93	192
D ,, (Kirkstyles).....	W B Worthington Esq CE	5	1 0	235 ⅄	27·69	187
Hazelwood (Chevin)	Sir J. G. N. Alleyne, Bart.	5	4 0	503 ⅄	27·23	194
D Ashbourne Water Works.....	Mr. J. W. Twigg	5	1 0	582 ⅄	36·48	208
,, (Yeldersley Hall) ...	E. B. F. Wright, Esq..	5	1 0	635 T	33·26	201
D§Belper (Quarry Bank)	J. Hunter, Esq., C.E....	5	0 8	281 ⅄	29·55	180
D ,, (Highfield)	M. Hunter, Esq., C.E..	8	0 8	310 ⅄	29·83	190
D Wirksworth (Bridge House) ...	Thomas Gibbs, Esq. ...	5	1 0	500 T	35·82	193
D Alderwasley	the late A. F. Hurt, Esq.	5	1 0	537 ⅄	35·15	185
Matlock Bath.....	Miss E. Chadwick	5	1 6	500	35·83	...
D ,, (The Gables)	Mrs. R. Wildgoose.....	5	1 0	459 T	36·37	204
D Darley Dale (Whitworth Inst.)..	Whitworth Inst. Trustees	5	1 8	361 ⅄	31·76	150
D ,, Hall.....	A. Clay, Esq.....	5	1 0	400 T	31·86	204
D Stretton (Lindway Res.)	Mr. J. Rimmington ...	5	3 6	447 ⅄	22·67	174
Hardwick Hall	Mr. E. Wilson	8	2 6	594 T	32·90	174
D Grassmoor Colliery	Mr. J. Norman	5	19 10	370 ⅄	21·39	144
D Chatsworth Gardens	Mr. F. Jennings.....	8	5 5	436 T	34·04	214
Chesterfield (Gas Works)	Chesterfield Corporation	5	1 0	279	26·01	153
,, ...	Great Central Rly. Co..	9	3 6	250	23·54	157
D ,, (Sewage Works) ...	Mr. W. Tomlinson.....	5	2 0	...	24·12	149
D ,, (Linacre Reservoir).	Chesterfield Corporation	8	1 0	490	31·82	183
D ,, (,, ,,).	,, ,,	5	1 0	490	30·64	183
,, (Tapton Grove).....	Mr. W. R. Bloxham ...	5	4 3	400	23·75	...
§Buxton (Devonshire Hospital)...	Royal Meteorological Soc	5	1 0	988	45·58	244
D ,, (Portobello Bar)	W. H. Grieves, Esq. C.E.	8	1 0	1600 ⅄	57·08	264
D ,, (Stanley Moor)	,, ,, ,,	8	1 0	1340 ⅄	54·38	259
D ,, (Burbage Edge)	,, ,, ,,	8	1 0	1400 ⅄	54·27	259
D Eyam (The Rectory)	Rev. F. L. Shaw	5	1 0	856	40·88	199
D ,, (Eyam View)	the late T. Gregory, Esq.	5	1 0	945	40·96	213
Comb's Moss	Great Central Rly. Co..	9	3 6	1669 T	32·12	...
,, Reservoir	,, ,, ,,	9	3 6	710 T	36·89	253
Chapel-en-le-Frith	,, ,, ,,	9	3 6	965 T	36·40	222
D Totley Hall.....	W. A. Milner, Esq. ...	5	1 0	700	37·39	216
Killamarsh (Norwood)	Great Central Rly. Co..	9	3 6	226 T	24·97	201
D†Norton [Sheffield]	Col. Creswick, C.B. ...	5	0 6	700	31·54	212
Grindleford (Grouse Inn) No. 58	E. Sandeman, Esq., C.E.	5	1 0	990	36·40	202
Hathersage .....No. 57	,, ,, ,,	5	1 0	525	34·75	204
D Bamford .....No. 60	,, ,, ,,	8	0 10	508 ⅄	38·12	233
,, ...No. 36	,, ,, ,,	5	1 0	680	37·27	206
Castleton .....No. 55	,, ,, ,,	5	1 0	625	46·11	212
Hope School.....No. 56	,, ,, ,,	5	1 0	545	43·77	241
Edale (Dale Head) .....No. 54	,, ,, ,,	5	1 0	1015	51·61	229
,, (Upper Booth) ... ..No. 53	,, ,, ,,	5	1 0	910	47·29	232
Bamford (Yorkshire Bridge Weir) No. 59	,, ,, ,,	8	1 0	540	39·91	230
Ashopton (Win Hill) .....No. 34	,, ,, ,,	5	1 0	1240	36·62	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.		Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft.	in.	feet.	inches.	
DERBYSHIRE—(*con.*)							
Ashopton (Cockbridge Farm) No 33	E. Sandeman, Esq., C.E.	5	1	0	620	42·48	219
,, (Wooler Knoll) No. 52	,, ,, ,,	5	1	0	1080	39·34	...
,, Inn ..... No. 32	,, ,, ,,	5	1	0	610	40·45	222
,, Grimbo Carr ... No. 51	,, ,, ,,	5	1	0	1100	34·37	...
Hayfield (The Dympus)	G.H. Hill, Esq., C.E., &	5	1	3	1450 T	42·20	...
,, (Edale Cross)	H. Sowerby Wallis Esq	5	1	3	1760 T	39·57	...
,, (Oaken Clough)	,, ,, ,,	5	1	3	1300 T	38·50	...
,, (Tunstead Clough)	,, ,, ,,	5	1	3	960 T	40·21	...
,, (Broad Clough)	,, ,, ,,	5	1	3	1420 T	44·34	...
,, (Cluther Rocks)	,, ,, ,,	5	1	3	1730 T	49·43	...
,, (Upper House)	,, ,, ,,	5	1	3	1170 T	42·12	...
,, (Kinder Top)	,, ,, ,,	5	1	3	2020 T	52·77	...
,, (Park Hall Moor)	,, ,, ,,	5	1	3	1260 T	39·89	...
,, (Sandy Heys)	,, ,, ,,	5	1	3	1500 T	47·21	...
,, (Leygatehead Moor) ...	,, ,, ,,	5	1	3	1550 T	45·17	...
,, (Mill Hill)	,, ,, ,,	5	1	3	1730 T	47·65	...
Ashopton (Cutthroat Brdg.) No. 31	E. Sandeman, Esq., C.E.	5	1	0	994	44·88	...
,, (Moscar Flat) ... No. 30	,, ,, ,,	5	1	0	1154	39·13	...
Derwent Bridge End ..... No. 28	,, ,, ,,	5	1	0	...	42·97	231
,, Dam ..... No. 26	,, ,, ,,	5	1	0	790	*42·92*	*233*
Ashopton (Haglee) ..... No. 50	,, ,, ,,	5	1	0	783	40·89	232
Blackdean Moor (Crookstone) 49	,, ,, ,,	5	1	0	1460	48·40	...
Woodland Dale (Woodlands, S.) 48	,, ,, ,,	5	1	0	1044	47·27	232
,, ,, (,, N.) 47	,, ,, ,,	5	1	0	1063	49·47	234
The Peak (Fairbrook) ..... No. 46	,, ,, ,,	5	1	0	1009	64·60	247
,, (Nungrain) ..... No. 45	,, ,, ,,	5	1	0	1320	65·26	...
Hayfield (Ashop Head) ... No. 43	,, ,, ,,	5	1	0	1650	48·40	...
Woodlands Dale (Rowlee) No. 24	,, ,, ,,	5	1	0	1540	44·30	...
Derwent Dale (Walker Ho.) No. 22	,, ,, ,,	5	1	0	758	45·61	235
Alport Dale (Alport Castles) No. 42	,, ,, ,,	5	1	0	955	52·12	208
Featherbed Moss (Redgate Clough) 44	,, ,, ,,	5	1	0	1730	49·53	...
Derwent Dale (Birchinlee) No. 23	,, ,, ,,	5	1	0	870	50·49	239
Birchinlee Moor (Cote Ridge) No. 18	,, ,, ,,	5	1	0	1440	46·21	...
Lady Clough Moor ..... No. 41	,, ,, ,,	5	1	0	1720	47·30	...
Coldharbour Moor (Summit) No. 39	,, ,, ,,	5	1	0	1670	46·85	...
Derwent Dale (Howden Dam) 17	,, ,, ,,	5	1	0	829	46·19	221
,, ,, (Banktop Hey) 16	,, ,, ,,	5	1	0	1340	54·09	...
,, ,, (Ridge Farm) ... 13	,, ,, ,,	5	1	0	1175	42·62	238
Alport Moor (Glethering Clough) .. 40	,, ,, ,,	5	1	0	1640	48·70	...
Westend Moor (Blacklow Cote) 15	,, ,, ,,	5	1	0	970	48·65	...
,, ,, ... No. 10	,, ,, ,,	5	1	0	1560	42·50	...
Alport Moor ..... No. 38	,, ,, ,,	5	1	0	1790	46·30	...
Derwent Dale (Black Dyke) No. 12	,, ,, ,,	5	1	0	1546	51·72	...
,, ,, (Cranberry Clough) 6	,, ,, ,,	5	1	0	960	52·95	...
,, ,, (Mosley Bank) No. 5	,, ,, ,,	5	1	0	1350	51·30	...
Ridgewalk Moor ..... No. 9	,, ,, ,,	5	1	0	...	46·60	...
Bleaklow Stones ..... No. 8	,, ,, ,,	5	1	0	2060	64·00	...
Derwent Dale (Roundhill) No. 4	,, ,, ,,	5	1	0	...	50·00	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground		Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft.	in.	feet.	inches.	
DERBYSHIRE—(*con.*)							
D Glossop (W.W., Swineshaw) ...	Mr. J. Garner	12	2	6	733 ⅄	43·78	235
Woodhead Station.....	Great Central Rly. Co..	9	3	6	878 T	50·74	235

DIVISION VIII.—NORTH WESTERN COUNTIES.

CHESHIRE.							
Audlem Vicarage	Rev. H. S. Cotton	5	1	6	200	*31·76*	...
D Baddiley (Nantwich W. W.) ...	Baldwin Latham Esq CE	5	1	0	231 ⅄	29·69	187
D Nantwich (Dorfold Hall)	J. A. Saner, Esq., C.E.	8	1	0	190 ⅄	31·18	197
D ,, (Reaseheath Hall) ...	,, ,, ,,	8	1	0	130 ⅄	32·43	202
D Eaton Hall Gardens	Mr. N. F. Barnes	6	3	0	72 ⅄	26·67	156
D Sandbach (Malkins Bank)	Mssrs Brunner Mond & Co	5	3	8	244 ⅄	27·39	200
Eccleston	E. Wells, Esq.	5	1	1	94 ⅄	27·75	186
D Tarporley (Summer Hill)	Col. J. H. Hamersley...	...	...		...	31·88	196
D Congleton (Buglawton Vic.).....	Rev. W. Besant.....	8	5	0	347 T	33·72	186
D ,, (Sewage Works)	Randle Burslam Esq. CE	5	1	0	248 ⅄	31·09	200
Bosley Reservoir	Great Central Rly. Co..	9	3	6	590 T	34·02	218
,, Minns.....	,, ,, ,,	9	3	6	1210 T	28·19?	220
Macclesfield (Wincle)	E. B. Smith, Esq., C.E.	5	3	0	500	38·83	158
D Tarporley (Willington Hall).....	J. Tomkinson, Esq., M.P.	5	1	0	220	30·10	215
§Chester (Hawarden Bridge).....	Meteorological Office...	8	1	0	20	23·26	169
D ,, (Christleton Hall)	Mr. J. Weaver	5	1	2	142 ⅄	27·12	209
,, (Water Works)	A. Bell, Esq.	5	0	10	85 ⅄	25·93	210
,, (Northgate Station).....	Great Central Rly. Co..	9	3	6	84 T	27·76	173
D§ ,, (Parkgate Road)	Rev. J. C. Mitchell	5	1	0	60 ⅄	26·68	197
D ,, (The Nurseries)	Messrs. Dicksons	5	1	0	62 ⅄	24·19	154
D Middlewich.....	Mssrs Brunner Mond & Co	5	3	10	138 ⅄	29·46	191
,, (Bostock Hall)	Col. France Hayhurst..	5	2	6	157 ⅄	31·00	...
D§Macclesfield (The Park)	Mr. J. Dale.....	5	1	0	501 T	37·39	224
,, ...	Great Central Rly. Co..	9	3	6	539	36·63	190
D Chelford (Astle Hall)	G. Dixon, Esq.	5	1	0	250 T	33·14	175
,, (,, ,,) .....M	,, ,, ,, ...	8	1	0	250 T	32·80	...
Northwich	Great Central Rly. Co.	9	3	6	76 T	27·83	160
D§ ,, (Highfield) *Snowdon*	J. A. Saner. Esq., C.E..	8	1	0	116 ⅄	32·43	228
D ,, (Winnington).....	Mssrs Brunner Mond & Co	5	3	8	80 ⅄	32·75	235
D ,, (Lostock Gralam) ...	,, ,, ,,	5	3	6	75 ⅄	30·14	221
D Macclesfield (Swanscoe Park) ...	T. C. Horsfall, Esq. ...	5	1	0	676 ⅄	38·81	223
D Neston (Hinderton)	Miss L. H. Bushell ...	5	1	0	215 ⅄	27·01	200
,, (,,) .....M	,, ,, ,, ...	8	1	0	215 ⅄	27·11	...
,, (,, Lodge)	,, ,, ,, ...	5	1	0	145 ⅄	26·91	...
Bollington (Sponds Hill)	Great Central Rly. Co..	9	3	6	1279 T	29·51	...
D Hooton Grange	W. H. Jones, Esq.....	5	1	0	110 ⅄	28·69	176
D Wilmslow (Parksyde)	E. Pearson, Esq.	8	1	0	253 ⅄	33·05	196
,, (Poplar House)	J. Holden, Esq.	5	1	0	237 ⅄	29·89	190
Whaley Bridge	Great Central Rly. Co..	9	3	6	602 T	44·76	236
D Handforth	A. Brothers, Esq.	5	1	6	260	36·90	174
D Disley (Lyme Park).....No. 1	T. Molyneux, Esq.....	9	3	8	720 ⅄	41·07	206

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
CHESHIRE—(*con.*)						
D Disley (Lyme Park).....No. 2	T. Molyneux, Esq.....	12	2 9	674 ⅄	35·69	205
D Runcorn (Weston Point)	J. A. Saner, Esq., C.E.	8	2 4	18	37·62	205
Thurstaston (Dawpool).....	Mr. R. Horne.....	...	...	...	21·46	...
D West Kirby (Greenfield)	H. Bell, Esq.....	5	1 0	75 T	27·26	197
D Thelwall (Millington House) ...	late L. W. Reynolds, Esq	5	1 0	85 ⅄	33·20	244
Altrincham (Norman's Place).....	A. Griffiths, Esq.	5	8 0	150 T	37·14	...
,, (Barrington House).	C. E. Newton, Esq., C.E.	8	2 6	103	34·55	...
D§Hoylake (District Council Office)	T. Robinson, Esq.....	5	1 0	33 ⅄	27·92	204
§Birkenhead (Bidston Obs.)	W. E. Plummer, Esq..	8	1 0	189 ⅄	28·08	196
D Northenden (Wythenshawe).....	T. E. Tatton, Esq. ...	5	1 0	114 T	32·25	203
,, (,,)... M	,, ,, ,, ...	8	1 0	114 T	31·72	...
Marple Top Lock	Great Central Rly. Co..	9	3 6	523 T	33·43	212
,, Aqueduct	,, ,, ,,	9	3 6	321 T	32·95	231
D New Brighton (Rutland House)..	W. Bell, Esq.....	5	0 11	130 B	28·66	178
Godley Reservoir	G. H. Hill, Esq., C.E..	12	2 0	500	37·01	...
Newton	Great Central Rly. Co..	9	3 6	396 T	35·38	212
Mottram Station.....	,, ,, ,,	9	3 6	452 T	34·00	234
,, (Hill End)	,, ,, ,,	9	3 6	680 T	40·45	224
D Broadbottom (Harewood Lodge).	Col. Sidebottom	5	1 0	440	36·50	207
D Hadfield (Millbrook).....	Mr. S. H. Doxon	8	3 10	442 T	41·94	223
,, (,,).....	,, ,, ,, ...	12	4 0	442 T	42·57	223
Arnfield Reservoir.....	G. H. Hill, Esq., C.E..	12	2 6	550	42·53	...
Rhodes Wood Reservoir	,, ,, ,, ...	12	1 0	520	44·69	...
Torrside Reservoir.....	,, ,, ,, ...	12	1 6	680	46·77	...
Staleybridge (Swineshaw).....	,, ,, ,, ...	8	3 0	884 ⅄	47·29	...
Woodhead Reservoir.....	,, ,, ,, ...	12	0 10	660	50·24	...
SOUTH LANCASHIRE.						
D Garston (Grassendale Park).....	Miss E. C. Abraham ...	5	1 0	35 T	28·30	180
D Aigburth (Kelton).....	Joshua Sing, Esq.....	5	1 0	150 T	30·33	214
D ,, (Holmfield)	Miss Maxwell.....	5	1 0	100 T	30·11	225
D ,, (,,)..... *new g.*	,, ,, ...	5	1 0	100 T	30·19	219
D Woolton (Camp Hill Gardens)...	Mr. J. Stoney.....	5	1 0	189	29·90	212
D Warrington (Howley)	T. Longdin, Esq.	10	0 10	19 ⅄	31·59	193
,, (Central Station) ...	Great Central Rly. Co..	9	3 6	59 ⅄	28·61	152
D ,, (Training College)..	Miss F. G. Timewell...	8	0 9	34 T	29·21	199
D Liverpool (Monument Place)..(R)	J. A. Brodie, Esq., C.E.	10	4 6	129 ⅄	30·42	190
,, (Smithdown Road) ...	,, ,, ,,	10	0 9	135 ⅄	31·85	199
,, (Rathbone Road)	,, ,, ,,	10	1 0	199 ⅄	31·86	192
,, (Huyton Vicarage) ...	Mrs. E. M. Sanderson..	5	0 11	116 ⅄	35·30	217
,, (Knotty Ash)	W. M. Reade, Esq. ...	5	1 0	100	*30·87*	*206*
,, (Newsham Park)	J. A. Brodie, Esq., C.E.	10	1 0	140 ⅄	31·20	197
,, (Breeze Lane)	,, ,, ,,	5	0 9	135 ⅄	33·44	202
,, (Huskisson Station) ...	Great Central Rly. Co.	9	3 6	40 ⅄	30·39	195
D Heaton Mersey [Stockport]	W. B. Leigh, Esq.....	5	3 11	218 ⅄	30·63	209
D Heaton Moor [Stockport].....	F. W. Jordan, Esq., M.D.	5	1 0	235	33·14	208
D West Derby (Grove House)	G. W. Lloyd, Esq. ...	5	1 0	82 ⅄	33·39	210
,, ,, (Croxteth Hall) ...	Mr. J. Gibbins	...	1 0	73	32·91	175

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
SOUTH LANCASHIRE—(*con.*)						
D†Withington (PalatineRoad) *No. 2*	L. G. King, Esq.	8	1 6	110 T	32·69	204
Urmston Sewage Works	Mr. A. B. Ogden	8	2 3	72 ⅄	31·26	199
D Withington(Chorlton-c-HardySew.Wks.)	G. F. Walter, Esq. ...	8	4 0	76 ⅄	32·18	225
D ,, (,, ,,)	J. H. Casartelli, Esq....	5	2 0	180	32·52	199
,, (LadyBarn,Fallowfield)	Miss C. Herford.....	5	1 0	122 T	31·36	202
D St. Helen's (Eccleston Hill).....	J.J. Lackland,Esq.,C.E.	12	2 9	268 T	33·28	182
D Earlestown (Newton Cemetery)..	T. Ormand, Esq.	5	1 0	75 ⅄	33·85	155
Denton Reservoir	G. H. Hill, Esq., C.E..	12	2 0	324 T	33·43	...
Gorton ,, ...	,, ,, ,,	12	2 0	263 T	32·83	...
Manchester (Piccadilly)	Great Central Rly. Co..	9	40 0	194 T	32·54	208
,, (Fairfield)	,, ,, ,,	9	6 0	312 T	35·00	226
D ,, (Sackville Street) (R)	G. F. Walter, Esq. ...	8	3 2	118 ⅄	31·29	198
D ,, (Oldham Road)	Dr. J. Niven	5	1 0	191 ⅄	36·95	210
† ,, (Whitworth Park)...	Meteorological Office...	8	1 5	126	32·20	240
D Eccles (Worsley New Hall)	Mr. W. B. Upjohn ...	8	8 0	100 T	32·86	172
,, (,, Old Hall)	,, ,, ,, ...	5	1 0	185	43·15	152
Blundellsands (Park Corner) ...	T. M. Reade, Esq. C.E.	5	1 0	33 ⅄	28·47	199
D Ashton-under-Lyne (Hartshead)	Mr. J. Travis.....	8	1 3	600 T	40·89	216
D Manchester (Moston).....	J. T. Warren, Esq. ...	5	1 0	292 T	36·47	201
Ashton-undr-Lyne(Waterhouses)	Great Central Rly. Co..	9	3 6	345 T	35·27	221
§Prestwich Asylum.....	Meteorological Office ...	8	1 0	295	42·19	224
,, Reservoir	G. H. Hill, Esq., C.E...	12	2 0	356 T	38·41	...
Oldham (Gas Works)	,, ,, ,, ...	5	4 0	600 T	40·07	...
,, ...	Dr. J. B. Wilkinson ...	...	...	...	49·93	229
,, (Honeywell Lane)	Great Central Rly. Co..	8	...	553	38·83	239
,, (Brushes Clough) *old g.*	C. J. Batley, Esq., C.E.	5	4 0	930 ⅄	46·75	230
,, (,, ,,)*new g.*	,, ,, ,,	5	5 0	955 ⅄	47·49	230
D Ormskirk (Aughton Springs) ...	C. E. Maples, Esq. ...	5	1 0	138 ⅄	32·29	214
D†Downholland (Barton Moss).....	J. Baxendell, Esq.....	5	0 9	14 T	31·55	215
D†Bolton (Queen's Park).....	T. Midgley, Esq.	5	1 0	390 T	50·52	232
† ,, (Heaton Reservoir)	RHSwindlehurstEsqCE	6	1 3	520	49·70	247
D ,, (Bloomfield, Heaton) ...	Mrs. F. Taylor	5	1 0	530	49·99	237
D† ,, (Smithills Hall)	Col. R. H. Ainsworth...	8	1 2	510 T	50·14	215
,, (,, Moor)	,, ,, ,, ...	8	1 2	1375	54·75	...
D Bury (Parsons Lane).....	R. B. Rigby, Esq.	8	10 0	316 T	44·41	210
†Milnrow (Piethorne, Kitcliffe)...	C. J. Batley, Esq., C.E.	5	4 6	769 ⅄	47·19	230
D† ,, (,, Coldgreave)	,, ,, ,,	5	4 6	894 ⅄	43·57	228
† ,, (,, Norman Hill)	,, ,, ,,	5	4 6	1076 ⅄	39·98	224
† ,, (,, Rooden Res.)	,, ,, ,,	5	4 6	1131 ⅄	39·52	221
D Rochdale (Deeplish Hill)	J. H. Lancashire, Esq.	5	1 0	475 T	44·31	237
D† ,, (Park Observatory) ...	Dr. J. Henry	8	0 6	472	48·73	232
D ,, (Fieldhead)	S. S. Platt, Esq., C.E..	8	12 0	484 ⅄	44·80	204
D ,, (The Crescent)	T. H. Hayle, Esq.,M.B.	5	40 5	513 T	43·55	222
D† ,, (Ashworth Moor)	J. Diggle, Esq., C.E...	5	1 2	957 ⅄	46·63	227
Bury (Gin Hall) ..... *No. 1*	J. Cartwright, Esq. ...	8	1 0	475	51·49	221
,, (,, ,,) ..... *No. 2*	,, ,, ,, ...	8	1 0	475	50·67	221
†Bolton (Belmont, Longworth) ...	RHSwindlehurstEsqCE	5	1 0	769	56·53	232
† ,, (,,)	,, ,, ,,	5	0 9	800	59·74	233

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
SOUTH LANCASHIRE—(*con.*)						
†Bolton (Belmont, Hordern)... M	RHSwindlehurstEsqCE	5	1 0	1147	56·60	...
† ,, (,, Slater Lane)...	,, ,, ,,	5	1 0	981	58·96	232
D Rochdale (Nayden Dean Filters).	J. Diggle, Esq., C.E....	5	1 8	761 ⅄	49·43	212
,, (,, ,,) *old g.*	,, ,, ,, ...	5	1 7	948 ⅄	38·87	...
,, (,, ,,) *new g.*	,, ,, ,, ...	5	1 4	948 ⅄	44·07	...
†Ramsbottom (Killgate Brook) M	,, ,, ,, ...	5	1 0	978 ⅄	50·10	...
† ,, (Cheesden Barn) M	,, ,, ,, ...	5	1 0	997 ⅄	47·69	...
† ,, (ShuttleworthMoss)M	,, ,, ,, ...	5	0 11	1076 ⅄	49·61	...
,, (Higher Hill) ... M	,, ,, ,, ...	5	1 0	...	43·02	...
D Rochdale(SpringMillWhitworth)	W. Tomlinson, Esq. ...	8	1 7	720	56·93	231
D ,, (Cowm, ,,)	,, ,, ,, ...	8	1 7	760	54·15	206
†Entwistle	RHSwindlehurstEsqCE	5	1 0	700	54·35	229
† ,, (Old Lyons) ..... M	,, ,, ,,	5	1 0	1260	53·78	...
† ,, (Wayoh) ..... M	,, ,, ,,	5	1 0	613	57·05	269
† ,, (Broadhead)	,, ,, ,,	5	1 0	886	55·73	278
Littleborough (Hollingworth) ...	Rochdale Canal Co.*	10	1 5	600	40·70	...
,, (Windy Bank) ...	,, ,, ,,	10	1 6	605 ⅄	39·80	...
† ,, (Blackstone Edge)	,, ,, ,,	10	1 9	1225 ⅄	31·10	...
,, (CanalSummit) ...	,, ,, ,,	10	1 10	700	35·00	...
,, (Chelburn)	,, ,, ,,	10	1 3	800	37·50	...
,, (Byron Edge).....	,, ,, ,,	8	1 5	1250 T	45·95	...
,, (Lenches)	,, ,, ,,	10	1 10	806	42·20	...
Walsden (Calf Lee)	,, ,, ,,	10	1 6	960	42·95	...
,, (Warland)	,, ,, ,,	8	1 5	1250 T	41·24	...
,, (Whiteholme).....	,, ,, ,,	8	1 5	1250 T	42·17	...
,, (Rishworth)	,, ,, ,,	8	1 5	1300 T	41·49	...
,, (Broadhead)	,, ,, ,,	8	1 5	1300 T	30·57	...
TodmordenWW.(RamsdenMoor)	W. Tomlinson, Esq. ...	5	1 0	1326 ⅄	38·61	...
,, ,, (,, Res.)	,, ,, ,, ...	8	1 0	980 ⅄	55·49	...
D Bacup (Britannia).....	Miss M. A. Smith	5	1 0	1107 T	55·61	253
†Haslingden (Holden Wood).....	J. Cartwright, Esq. ...	8	1 0	670 ⅄	54·83	232
† ,, (Calf Hey).....	,, ,, ,, ...	8	1 0	800 ⅄	53·32	232
D ,, (Hazelwood)	Dr. Harrison	5	1 9	800 T	58·12	206
,, (Springfield Lodge)..	John Stott, Esq.....	5	1 0	800	47·99	...
Rawtenstall Cemetery	J. Johnson, Esq., C.E..	8	1 0	572	54·33	216
D† ,, (Cloughbottom Res.)	J. Cartwright, Esq. ...	8	1 0	1025	52·15	226
† ,, (Hapton Reservoir)..	,, ,, ,, ...	8	1 0	930 ⅄	46·93	246
CENTRAL LANCASHIRE.						
D Wigan Waterworks	W. Bolton, Esq.....	8	1 6	225 T	37·17	214
D ,, (The Mariebonne)	H Nowell ffaringtonEsq	5	1 0	150 T	38·18	216
Horwich (Wallsuches)	C. E. Barr, Esq..	5	1 0	655 T	38·28	...
,, (Montcliffe)	,, ,, ,, ...	5	4 2	901 T	40·77	...
D† ,, (Lower Rivington) ...	J. Parry, Esq., C.E.....	5	1 0	440 ⅄	43·08	216
† ,, (Lower Knoll)	,, ,, ,, ...	8	1 4	742 ⅄	43·43	...
D ,, (Wildersmoor)	Col. R. H. Ainsworth...	8	1 2	1220	52·42	175
Ormskirk (Rufford)	G. Hobkirk, Esq.	5	0 8	39 ⅄	34·59	...
†Rivington (Brown Hill)	J. Parry, Esq., C.E. ...	8	1 4	843 ⅄	41·74	...

* Returns supplied by C. R. Dykes, Esq.

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
CENTRAL LANCASHIRE-(*con.*)						
D†Rivington (Stoneshouse) ...No. 1	J. Parry, Esq., C.E. ..	8	1 4	623 ⅄	45·39	222
† ,, (,,) ...No. 2	,, ,, ,, ...	10	1 4	623 ⅄	45·29	...
† ,, (Hurst Hill).....	,, ,, ,, ...	8	1 10	1029 ⅄	45·39	...
† ,, (Great Hill).....	,, ,, ,, ...	8	1 8	1240 ⅄	52·67	...
† ,, (Coppice Stile).....	,, ,, ,, ...	8	1 8	879 ⅄	45·85	...
† ,, (Gamekeeper's)	,, ,, ,, ...	8	0 8	850 ⅄	49·23	...
† ,, (Higher Hill)	,, ,, ,, ...	8	1 4	733 ⅄	38·56	...
Southport (Birkdale).....	J. Baxendell, Esq.....	5	1 0	27 ⅄	33·64	...
D† ,, (Hesketh Park)	,, ,, ,, ...	5	1 0	38 ⅄	32·82	199
D† ,, (,, ,,)*M.O.g.*	,, ,, ,, ...	8	1 0	38 ⅄	32·97	207
D† ,, (,, ,,) ... (R)	,, ,, ,, ...	11	1 5	39 ⅄	32·70	207
† ,, (Lord Street Station).	Great Central Rly. Co...	9	3 6	21 ⅄	29·77	180
Haslingden (Mitchells House Res.)	C. Harrison, Esq.	5	1 6	990	47·36	202
D Over Darwen (Sunnyhurst Hey.)	R. W. S. Saville, Esq..	8	1 8	915 T	49·02	222
D ,, ,, (Earnsdale Res.)....	,, ,, ,,	8	1 8	705 T	51·13	222
D ,, ,, (Sewage Works) ...	,, ,, ,,	5	1 6	475	45·84	225
,, ,, (Hoddlesden) No.1	W. Stubbs, Esq., C.E..	8	4 0	680	51·06	240
,, ,, (,,) No.2	,, ,, ,, ...	8	1 0	675	51·13	239
,, ,, (Daisy Green) No.1	,, ,, ,, ...	8	1 0	969	48·97	239
,, ,, (,, ,,) No.2	,, ,, ,, ...	8	1 0	969	48·91	241
,, ,, (Pickup Bank) No.1	,, ,, ,, ...	8	1 0	720	47·89	240
,, ,, (,, ,,) No.2	,, ,, ,, ...	8	1 0	720	48·79	240
Preston (Brindle Rectory)	Rev. J. Kinton Jacques	5	1 8	380	45·76	...
D ,, (Walton-le-Dale W.W.)	T. W. Elliott, Esq. ...	5	0 10	316	42·70	215
Blackburn (Guide Reservoir) ...	W. Stubbs, Esq., C.E..	8	1 0	650	40·29	227
,, (Witton)	,, ,, ,,	8	2 6	315 ⅄	43·81	209
,, (Store Yard)	,, ,, ,,	8	30 0	373 ⅄	34·27	213
,, (Water Works Office)	,, ,, ,,	8	60 0	436 ⅄	31·40	204
,, (Corporation Park) ...	,, ,, ,,	8	0 6	584 ⅄	43·02	228
,, (Pumping Station) ...	,, ,, ,,	8	6 0	600 ⅄	44·55	202
Accrington (St. James's Vicarage)	Rev. A. Spencer.....	8	1 6	475 T	52·90	...
,, (Milnshaw Park).....	Accrington Corporation	5	1 6	464 ⅄	41·88	190
D Preston (Corporation Offices) ...	T. Cookson, Esq.	8	18 7	148 ⅄	38·03	199
Blackburn (Samlesbury Sew Wks)	W. Stubbs, Esq., C.E.	8	...	240	39·65	216
Causeway Side (Burnley W.W.)	W. Williamson, Esq.	8	2 0	1116	42·27	...
Sheddin (,, ,,)	,, ,, ,,	8	2 0	960	43·03	...
Cant Clough, S. Side(,, ,,)	,, ,, ,,	8	2 0	900	43·82	238
,, ,, N. Side(,, ,,)	,, ,, ,,	8	2 0	900	40·80	238
Rams Clough Head(,, ,,)	,, ,, ,,	8	2 0	1260	41·32	...
Rishton Reservoir	Leeds & L'pool Canal Co.	...	...	467	27·76	...
Huncoat (Burnley Road Res.) ...	C. Harrison, Esq.	9	1 6	620 ⅄	42·47	225
Burnley (Yorkshire Street)	W. Williamson, Esq...	8	30 0	420 ⅄	37·27	230
,, (Swinden, Upper)	,, ,, ,, ...	8	12 0	820 ⅄	44·28	251
,, (,, Lower)	,, ,, ,, ...	8	2 0	745 ⅄	44·37	251
,, (Extwistle Moor)	,, ,, ,, ...	8	2 0	1310 T	45·30	...
D ,, (Gawthorpe Hall)	Alfred Ford, Esq.....	8	1 3	316 T	45·75	314
D Preston (Haighton)	J. J. Myres, Esq., C.E.	5	1 2	255 ⅄	41·33	182
Alston	T. Cookson, Esq.	8	1 2	320 ⅄	45·93	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.		Height Above SeaLevel	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft.	in.	feet.	inches.	
CENTRAL LANCASHIRE-(*con.*)							
Nelson (Coldwell Reservoir).....	C. E. Newton, Esq., C.E.	8	2	0	950 ⅄	40·28	...
Worthdale (Watersheddles).....	W. Fowlds, Esq., C.E.	5	1	0	1115 T	54·24	...
§Stonyhurst College	Rev. W. Sidgreaves ...	11	1	0	376 ⅄	49·67	207
D§ ,, ,, ...(R)	,, ,, ,, ...	11	1	10	377 ⅄	49·67	207
§ ,, ,, ... M	,, ,, ,, ...	11	1	0	376 ⅄	47·39	...
Knowle Green (Preston W.W.) M	T. Cookson, Esq.	8	1	2	400 T	47·85	...
Loud-scales (,, ,,) M	,, ,, ,, ...	8	1	2	400 T	44·80	...
Spade Mill (,, ,,) M	,, ,, ,, ...	8	1	2	400 T	47·13	...
Jeffrey Hill (,, ,,) M	,, ,, ,, ...	8	1	2	900 T	52·44	...
D Beaton Fell (Barnsfold Res.) ...	J. J. Myres, Esq., C.E.	5	1	6	506 ⅄	39·86	207
,, ,, (,, ,,)...M	,, ,, ,,	5	1	6	506 ⅄	39·86	...
Barrowford Reservoir	Leeds & L'pool Canal Co.	8	1	0	473	43·60	...
Foulridge (Canal Office)	,, ,, ,,	8	1	0	497	47·49	...
,, (Cragg Nook Hill) ...	,, ,, ,,	8	1	0	690	46·41	...
,, (Upper Reservoir) ...	,, ,, ,,	8	1	0	582	42·51	...
Clitheroe (Low Moor)	W. Garnett, Esq.	5	1	3	215 ⅄	45·06	159
,, (Downham Hall)	the late R. Assheton, Esq	10	1	6	464 ⅄	43·81	...
D Chatburn (Middlewood)	W. K. Wilkinson, Esq.	5	1	3	363	46·23	186
NORTH LANCASHIRE.							
D St. Anne's-on-the-Sea	Mr. W. E. Procter	5	1	0	25 T	33·97	199
Kirkham (Weeton)	C. Arthur, Esq.	10	1	0	95 T	37·94	...
D Barton (Anderton Fold)	W. H. Mason, Esq. ...	5	0	6	90 T	39·60	198
†Blackpool Hospital	F.J.H.Coutts, Esq. M.D.	5	1	0	59 ⅄	33·31	...
D† ,, (Met. Observatory) ...	,, ,, ,,	5	1	0	67 ⅄	32·76	202
Poulton-le-Fylde (Singleton Pk.)	T. H. Miller, Esq.	8	0	11	50 ?	36·96	196
D St. Michael's-on-Wyre Vicarage	Rev. P. J. Hornby	5	1	0	25 T	38·13	210
D Garstang (Bruna Hill)	Mrs. Wilson	5	0	6	90 ⅄	41·84	221
,, (Holme Ho., Bleasdale)	A. Wilson, Esq.	5	1	0	650 T	51·38	...
,, (Fairsnape Fell)	,, ,, ,, ...	5	1	0	1630 T	83·02	...
† ,, (Barnacre Reservoir)...	C. Arthur, Esq.	5	1	0	617 ⅄	48·57	...
† ,, (Grizedale Reservoir)..	,, ,, ,, ...	5	1	0	519 T	44·21	...
† ,, (,, Stake House)	,, ,, ,, ...	5	1	0	775	47·03	...
D§Fleetwood	M. S. Gaulter, Esq. ...	5	1	4	30 ⅄	35·64	185
Pilling (Smallwood Hey) .....M	Mr. J. H. Curwen	5	0	9	12 T	38·30	...
D Garstang (Forton)	J. H. Bonny, Esq.	5	1	6	65 L	40·63	211
Wyresdale (Abbeystead)	J. C. Mount, Esq., C.E.	8	1	0	366 T	48·04	189
D Hampson-in-Ellel	W. G. Welch, Esq. ...	5	1	6	145 T	43·85	225
Quernmore (Old Gauge Basin) M	J. C. Mount, Esq., C.E.	8	1	0	963 T	57·27	...
D Lancaster (Bailrigg)	H. L. Storey, Esq.	5	1	3	200	47·63	228
Wyresdale (Wardstone) .....M	J. C. Mount, Esq., C.E.	8	1	0	1440 T	76·43	...
Quernmore (Brow Top).....	,, ,, ,,	8	1	0	552 T	49·73	202
D Heysham House.....	Miss Tomlinson	5	1	6	80	46·74	227
D Lancaster (Strathspey)	A. B. S. Welch, Esq...	5	1	0	85	42·22	236
D ,, (Brettargh House) ...	Capt. J. Barker	5	1	6	161 T	41·53	210
,, (Blea Tarn Reservoir).	J. C. Mount, Esq., C.E.	8	1	0	330	40·63	211
D§ ,, (Greg Observatory) ...	W. French, Esq.	8	1	0	312	42·32	216
,, (Robert Street).....	J. C. Mount, Esq., C.E.	8	1	0	62 T	42·32	209

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
NORTH LANCASHIRE—(*con.*)						
Caton (Escowbeck)	A. Greg, Esq.	12	1 6	150 T	44·38	225
,, Vicarage	Rev. W. J. Locke	5	1 0	160 T	46·09	...
D ,,	F. Storey, Esq.	5	1 0	250	46·81	231
D§Morecambe	Mr. T. B. Lamb	8	1 0	24 ⅄	43·53	214
D Wray Vicarage	Rev. C. L. Reynolds	5	1 0	165 T	48·85	224
D Bolton-le-Sands	Rev. A. R. Tomlinson.	5	0 10	80 T	41·92	218
Melling (Hornby Castle)	Col. W. H. Foster	8	1 8	100	51·83	189
D Barrow-in-Furness	W. Fergusson, Esq.	11	1 6	36 ⅄	36·48	188
D Carnforth (Over Kellet)	W. Farrer, Esq.	8	1 0	175	43·17	210
Arkholme (Storrs Hall)	F. F. Pearson, Esq.	5	1 0	220	49·55	...
D Yealand Conyers	W. O. Roper, Esq.	5	1 0	250	45·28	226
D Ulverston (Urswick School Ho.).	J. Dobson, Esq.	5	1 3	140 T	44·56	220
D Cartmel (Flookburgh)	R. Harrison, Esq.	5	1 0	75	47·83	196
Lindal (Moor Mines)	F. A. Ainslie, Esq.	5	7 0	...	48·47	178
D Cartmel (Carke)	W. R. Nash, Esq.	5	1 0	76 ⅄	46·00	218
D ,, (Holker)	Rt.Hon.VCavendishMP	8	4 6	155 ⅄	46·18	222
D Grange-over-Sands (Belmont)	late Dr. W. M. Burman	5	1 0	190 B	48·76	216
D ,, ,, ,, (Eggerslack)	the late Miss Arkwright	5	2 3	140 B	55·30	220
,, ,, ,, (Merlewood).	E. C. Miller, Esq.	5	0 6	320 T	50·95	227
D Ulverston (Poaka Beck)	W. Fergusson, Esq.	11	1 6	512 ⅄	58·20	258
Cartmel (Pit Farm)	W. R. Nash, Esq.	5	1 0	122 T	48·48	...
D ,, (Aynsome)	J.Stewart RemingtonEsq	8	2 0	137 T	58·93	251
Newby Bridge (Backbarrow)	late Col. D. Ainsworth.	5	2 6	122 T	53·34	...
D Finsthwaite Vicarage	Rev. S. Inman	8	1 2	250	59·41	223
D Broughton-in-Furness	C. P. Chambers, Esq.	5	1 3	101	55·18	219
D Blawith Vicarage	Rev. J. Ashburner	5	0 10	185 T	60·79	197
D Cartmel Fell Vicarage	Rev. W. Summers	5	2 3	220 T	61·37	222
D Hawkshead(TowerBank,Sawrey)	Major W. Alcock-Beck	5	1 0	342 T	64·79	228
D Duddon Valley (Seathwaite Vic.)	Rev. J. B. Ditchfield	5	1 0	330 T	75·56	226
Monk Coniston Park	Miss C. Marshall	5	1 2	305 T	81·88	195
D Hawkshead (Esthwaite Mount)	Miss Headlam	5	1 0	246 T	*72·96*	*223*
,, (Black Fell) M	Miss C. Marshall	5	1 6	1055 T	78·63	...
D Skelwith Fold [Ambleside]	,, ,, ,,	5	1 0	333	85·00	248
,, ,, [,,] M	,, ,, ,,	5	1 0	333	84·32	...

DIVISION IX.—YORKSHIRE.

WEST RIDING (SOUTHERN).						
D†Sheffield (W.W., Gleadless)	Mr. R. Rodinson	8	0 8	700 T	33·89	214
D Dinnington Hall	Mr. C. Hope	5	0 6	392 T	26·98	190
D Sheffield (Stumperlow Hall)	H. J. Dixon, Esq.	5	1 0	700 ⅄	37·17	217
D ,, (Redmires Res.)	L.S.M.Marsh,Esq.,C.E.	10	5 0	1110 ⅄	41·49	236
,, (,, ,,) *weekly*	,, ,,	8	4 0	1110 ⅄	41·07	...
D ,, (Tylecote, Ranmoor)	J. Dixon, Esq.	5	1 0	610 ⅄	33·35	204
D ,, (Rivelin)	L.S.M.Marsh,Esq.,C.E.	10	4 0	564 ⅄	36·25	215
,, (,,) *weekly*	,, ,, ,,	8	4 0	564 ⅄	35·76	...

DIVISION IX.—YORKSHIRE.—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
W. RIDING (SOUTHERN)-(*con.*)						
D Sheffield (Crookes)	L.S.M. Marsh, Esq., C.E.	10	2 0	629 ⅄	28·17	198
,, (,,) ..... *weekly*	,, ,, ,, ...	8	2 0	629 ⅄	28·57	...
D† ,, (Weston Park)	E. Howarth, Esq.	8	1 0	430 ⅄	29·42	189
,, (Victoria Station)	Great Central Rly. Co..	9	3 6	188 T	24·88	156
D ,, (Dale Dyke Reservoir).	L.S.M. Marsh, Esq., C.E.	10	3 0	715 ⅄	41·37	231
,, (,, ,, ,,)*weekly*	,, ,, ,,	8	3 0	715 ⅄	40·84	...
D Rotherham (Ulley Res.)	G. W. Jennings, Esq...	5	1 0	184 ⅄	20·57	149
Sheffield (Tinsley Locks)	Great Central Rly. Co..	9	...	117 T	21·29	175
D Tickhill (Sandbeck Park)	Mr. G. Summers	8	1 0	150 T	23·43	175
D Rotherham (Moorgate)	C. E. Chrimes, Esq. ...	5	1 0	262	25·94	156
Derwent Dale (Low Seat) No. 21	E. Sandeman, Esq., C.E.	5	1 0	1565	37·50	...
,, ,, (Howden Ho.) 19	,, ,, ,,	5	1 0	775 ⅄	47·28	238
,, ,, (Row Top) No. 20	,, ,, ,,	5	1 0	1260	41·02	...
,, ,, (Sandy Lee) No. 7	,, ,, ,,	5	1 0	1340	46·16	...
,, ,, (CrowStones) No.3	,, ,, ,,	5	1 0	1660	45·88	...
,, ,, (FeatherbedMoss) 1	,, ,, ,,	5	1 0	1670	46·46	...
Rotherham (Thrybergh)	F. Oscar Kirby, Esq. C.E.	8	1 0	184 ⅄	22·66	174
D Sheffield (Chapeltown)	Mr. D. Bell	8	5 0	581 ⅄	25·62	187
Doncaster (Firsby Reservoir)	F. Oscar Kirby, Esq. C.E.	8	1 4	189 ⅄	24·08	172
D ,, (Wadworth Hall)	Rev. J. C. Ross	8	1 0	190 ⅄	24·79	197
D Wentworth Woodhouse	Mr. J. Hughes	5	0 10	360 T	27·20	202
D Swinton (Council Offices)	R. Fowler, Esq., C.E...	8	1 0	126 ⅄	22·72	197
D Mexborough	G Fenwick Carter Esq CE	5	1 6	58 ⅄	20·44	166
Wortley	Great Central Rly. Co..	9	3 6	548 T	28·05	200
Elsecar	,, ,, ,, ...	9	3 6	181 T	22·32	159
Langsett Moor (Pike Lowe)	J. H. Taylor, Esq., C.E.	5	1 0	1358 T	50·06	...
,, ,, (Ewden Height).	,, ,, ,,	5	1 0	1099 T	45·33	...
,, ,, (Range Moor)	,, ,, ,,	5	1 0	1040 T	47·53	...
D ,, ,, (Upper Midhope)	,, ,, ,,	5	1 0	912 T	44·88	228
Wortley (Service Reservoir)	,, ,, ,,	5	1 0	700	30·50	196
D† Langsett ..... *No. 1*	L.S.M. Marsh, Esq., C.E.	8	4 3	960 ⅄	37·37	211
D† ,, ... *No. 2*	,, ,, ,,	8	4 9	761 ⅄	39·27	210
D Wath-upon-Dearne (Chapel St.)	Dr. F. J. Burman	8	3 0	188 T	23·71	178
Worsborough	Great Central Rly. Co..	9	3 6	225 T	24·16	161
D Stainborough (Wentworth Castle)	W. Fisher, Esq.	8	2 6	520 T	27·11	177
Doncaster	Great Central Rly. Co..	9	3 6	32 T	22·23	158
,, (Pumping Station)	F. Oscar Kirby, Esq. C.E.	8	1 2	30 ⅄	24·18	181
D ,, (Market Place)	Mr. C. Parkin	5	4 9	46 T	22·67	162
Dunford Brdg. (Up. Windleden) M	H. Dearden, Esq., C.E.	12	2 2	1100	51·75	...
,, ,, (Dearden Res.) M	,, ,, ,, ...	12	1 6	1244 T	53·51	...
,, ,, Station	Great Central Rly. Co..	9	3 6	954 T	46·74	230
D ,, ,, Reservoir	H. Dearden, Esq., C.E.	12	2 0	1111 T	50·57	229
Penistone	Great Central Rly. Co..	9	3 6	717 T	32·66	211
,, (Hazlehead)	,, ,, ,,	9	3 9	868 T	42·08	217
D ,, (Grammar School)	Joseph W. Fulford, Esq.	5	1 2	730 T	32·12	208
,, (Ingbirchworth Res.).	J. H. Taylor, Esq. C.E.	8	1 3	853 ⅄	36·97	192
D Barnsley (Church Street)	Dr. F. J. Sadler	5	5 2	350 T	26·22	218
,, (Jordan Hill)	J. H. Taylor, Esq., C.E.	8	1 3	460	25·32	...

DIVISION IX.—YORKSHIRE—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground		Height Above SeaLevel	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft.	in.	feet.	inches.	
W. RIDING (SOUTHERN)-(*con.*)							
Barnsley	Great Central Rly. Co.	9	3	6	317 T	22·34	145
,, (Cawthorne)	Rev. C. T. Pratt	5	1	6	340 ⅄	29·37	198
D Doncaster (Kirk Bramwith)	H.A.Brundell,Esq.C.E.	5	1	0	17 ⅄	22·37	183
D Hemsworth Hall	F. G. Leatham, Esq.	5	1	0	250 T	24·54	196
D Ackworth (Hillthorpe)	Mrs. F. Hatchard	5	1	5	175 T	24·36	168
D ,, (Nostell Priory)	Mr. J. Easter	5	4	0	...	25·11	173
Goole (Swinfleet)	Mr. G. Harrison	5	5	6	...	20·92	...
D ,,	W. E. Grayburn, Esq.	5	1	0	18 ⅄	24·36	182
WEST RIDING (CENTRAL).							
Greenfield (Chew Mount)	G. H. Hill, Esq., C.E.	7	0	7	...	53·70	...
,, (Yeoman Hey)	,, ,, ,,	7	0	7	759	50·90	...
Holmbridge (Yateholme)	O. J. Kirby, Esq., C.E.	7	1	0	861 ⅄	59·90	...
,, (Holme Styes)	L. Hinchcliffe, Esq.	7	2	6	830 T	49·00	...
,, (Boshaw Whams)	,, ,, ,,	7	2	6	930 T	51·30	...
,, (Bilberry Reservoir)	,, ,, ,,	7	2	6	820 T	59·00	...
Saddleworth Station M	L. K. Jones, Esq.	5	4	2	630 T	41·17	...
Strinesdale [Oldham]	C. J. Batley, Esq., C.E.	5	4	0	815 ⅄	39·30	232
Meltham (Harden Moss)	J. W. Schofield, Esq.	8	1	2	1212 T	47·40	...
,, (,, ,,) *new g.*	,, ,, ,,	8	1	0	1212 T	45·78	...
Wessenden Head	,, ,, ,,	8	1	0	1270 T	40·26	...
,, (Hollin Bank Moss)	,, ,, ,,	8	1	0	1360 T	27·13	...
,, (Great Butterley)	,, ,, ,,	8	1	0	1110 T	40·90	...
,, (Bobus)	,, ,, ,,	8	1	0	1200 T	38·36	...
D Standedge(Castleshaw,Broadhead)	C. J. Batley, Esq., C.E.	8	4	6	876 ⅄	43·25	229
† ,, (,, Cudworth)	,, ,, ,,	5	4	6	1410 T	32·07	228
,, (Redbrook Res.) *old g.*	L. K. Jones, Esq.	8	1	8	1150	46·37	...
,, (,, ,,)*new g.*	,, ,, ,,	8	1	6	1150	45·59	...
Meltham (Brow Grains)	J. W. Schofield, Esq.	8	1	0	900 T	45·45	...
†Denshaw (Ox Hey)	C. J. Batley, Esq., C.E.	8	4	6	1030 ⅄	44·07	231
D† ,, (New Year's Bridge)	,, ,, ,,	8	4	0	1012 ⅄	48·67	231
† ,, (Ready Con Dean)	,, ,, ,,	8	4	0	1414 ⅄	46·15	231
Meltham (Royd Edge)	C. L. Brook, Esq.	8	1	0	585 T	53·81	...
D ,, (Harewood Lodge)	,, ,, ,,	8	1	0	514 L	45·56	230
,, Grange	J. W. Schofield, Esq.	8	1	2	850 T	42·66	...
Marsden (Deer Hill) *old g.*	,, ,, ,,	8	1	0	1149 T	45·58	...
,, (,,) *new g.*	,, ,, ,,	8	1	0	1149 T	49·45	...
Wakefield(WoolleyParkGardns.)	Mr. T. Wells	5	1	6	400	27·48	198
D Slaithwaite (Blackmoorfoot)	J. W. Schofield, Esq.	8	1	0	800 T	47·86	245
D ,, (Inglewood)	J. Woodhead, Esq.	5	1	0	550 ⅄	46·37	248
D Wakefield (Walton Hall)	E. Simpson, Esq.	5	1	0	140 T	20·71	165
Huddersfield (BankField,Golcar)	J. R. Sykes, Esq.	5	1	0	400 T	39·87	207
D ,, (Cemetery)	Mr. J. Firth	8	1	0	410 T	35·79	235
D§ ,, (Dalton)	J. W. Robson, Esq.	8	1	0	350 T	30·02	213
†Rishworth (Ringstone Res.)	C.ClemeshaSmithEsqCE	5	1	0	990 T	44·42	212
,, (Stott Hall)	,, ,, ,,	5	1	0	935 T	48·80	210
† ,, (Great Walden Edge)	,, ,, ,,	5	0	10	1135 T	54·69	246
D Mirfield (Cote Wall)	J. Watson-Kaye, Esq.	8	1	2	200	33·88	194

DIVISION IX.—YORKSHIRE—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
W. RIDING (CENTRAL)—(*con.*)						
Ossett (Lowood House)	Dr. W. Greenwood	5	0 6	350 T	23·61	...
D § Wakefield Prison	A. French, Esq.	5	1 0	96 ⅄	25·17	173
,, (Field Head)	C. Clemesha Smith Esq CE	8	1 6	250 T	26·11	163
D ,, (Stanley Grange)	H. S. Haworth, Esq.	5	1 0	235 T	23·01	200
Elland	P. H. Whitwam, Esq.	8	1 0	307 ⅄	37·70	152
Batley (Staincliffe Reservoir)	O. J. Kirby, Esq., C.E.	7	1 0	492 ⅄	21·50	...
D ,, (Woodwell Depôt)	,, ,, ,,	8	1 0	301 ⅄	23·41	168
Ardsley Reservoir	C. Clemesha Smith Esq CE	5	1 2	395 ⅄	24·97	198
Sowerby Bridge (Brockwell Triangle)	W. Cyril Empson, Esq.	8	1 0	500 ⅄	42·29	...
D ,, ,, (Haugh End)	J. S. Rawson, Esq.	5	0 8	450 T	41·90	226
D Fielden Hospital [Todmorden]	Mr. F. Rogers	5	1 0	650 T	49·83	221
D Sourhall Hospital [,,]	,, ,,	5	1 0	1020 T	56·76	228
Halifax (Bents, Norland) M	J. S. Rawson, Esq.	5	0 8	800 T	32·60	...
D ,, (Salterhebble)	R. Lyon, Esq.	11	4 0	255 ⅄	29·87	178
D ,, (Hall Ings, S. Owram)	Rev. G. E. Aspinall	5	0 7	750 T	30·39	214
,, (Thorpe) M	J. S. Rawson, Esq.	8	0 8	345 T	44·53	...
D ,, (,,)	,, ,,	5	0 8	345 T	45·20	215
D ,, (Public Library)	E. Green, Esq.	8	1 0	625 T	33·84	207
,, (Albert)	R. J. Hartley, Esq., C.E.	5	1 0	795 T	35·82	...
,, (Gibbet)	,, ,, ,,	5	6 0	568 T	35·34	...
,, (Ramsden Wood)	,, ,, ,,	8	1 2	816 T	40·71	...
Hebden Bridge (Falling Royd)	A. R. Crossley, Esq.	4	1 0	479 ⅄	48·84	229
D ,, ,, (Summerfield)	J. Hoyle, Esq.	5	1 0	800 ⅄	45·34	218
Halifax (Castle Carr)	R. J. Hartley, Esq., C.E.	...	...	1060 T	47·24	...
,, (Midgley Moor) M	,, ,, ,,	7	0 6	1350 T	43·36	...
,, (Warley Moor) M	,, ,, ,,	7	0 6	1325 T	45·37	...
,, (Ogden) M	,, ,, ,,	8	1 3	990 T	45·41	...
,, (Ovenden Moor)	,, ,, ,,	...	...	1375	47·68	...
,, (Widdop)	,, ,, ,,	...	...	1050	47·56	...
,, (Walshaw Dean) M	,, ,, ,,	8	0 3	1380 T	43·47	...
D South Milford Rectory	Rev. F. J. Young	5	1 2	70 ⅄	27·11	213
Selby	Mr. J. Palgrave	5	1 6	20	21·77	...
§ Garforth	Meteorological Office	...	...	198	24·07	195
D Pudsey	Dr. W. Lovell Hunter.	5	1 0	521 T	27·96	192
Bradford (Horton, Grange Road)	Mr. A. E. Chilton	5	5 0	450 T	36·88	248
,, (Queensbury)	R. J. Foster, Esq.	8	2 2	1050	36·33	217
,, (Brayshaw Reservoir)	J. Watson, Esq., C.E.	5	1 0	982 ⅄	37·98	223
D ,, (The Exchange)	H. A. Johnson, Esq., C.E.	8	65 6	395 ⅄	31·61	240
,, (Thornton Moor)	J. Watson, Esq., C.E.	5	1 0	1218 ⅄	45·64	265
,, (Stubden) *old g.*	,, ,, ,,	8	1 0	1075 ⅄	53·25	249
,, (,,) *new g.*	,, ,, ,,	8	1 0	1075 ⅄	50·29	249
,, (,, Reservoir)	,, ,, ,,	5	1 0	1071 ⅄	48·62	249
,, (Nan Scar, Oxenhope) M	,, ,, ,,	5	1 0	1101 ⅄	51·94	...
,, (Stairs Top, ,,) M	,, ,, ,,	5	1 0	1401 ⅄	45·98	...
,, (Leeming Reservoir) M	,, ,, ,,	5	1 0	850 ⅄	43·41	208
,, (Doe Park Res.) *old g.*	,, ,, ,,	8	1 0	810 ⅄	55·82	249
,, (,, ,, ,,) *new g.*	,, ,, ,,	5	1 0	811 ⅄	48·66	249

DIVISION IX.—YORKSHIRE—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
W. RIDING (CENTRAL)—(*con.*)						
D Bradford (Manningham Lodge)..	late J. Priestman, Esq.	5	1 0	507	34·29	216
,, (Leeshaw Res.) ..... M	J. Watson, Esq., C.E..	5	1 0	875 ⅄	53·21	...
,, (Chellow Dean)	,, ,, ,, ...	5	1 0	645 ⅄	29·40	229
,, (,, Heights).....	,, ,, ,, ...	5	1 0	848	37·85	241
,, (Hewenden Res.). *old g.*	,, ,, ,, ...	5	1 0	700 T	46·65	252
,, (,, ,,)*new g.*	,, ,, ,, ...	5	1 0	701 ⅄	42·86	252
,, (Heaton Res.) ...*old g.*	,, ,, ,, ...	8	1 0	530 ⅄	33·78	229
,, (,, ,,)...*new g.*	,, ,, ,, ...	5	1 0	531 ⅄	32·58	229
Leeds (Wortley Res.)	C.G. Henzell, Esq., C.E.	8	0 9	307 ⅄	26·64	190
,, (Knostrop)	,, ,, ,,	8	0 9	72 T	22·61	183
D ,, (Holbeck)	Messrs. J. Rhodes & Co.	10	32 0	127 ⅄	20·36	145
D ,, (,, W. Works Depot)	C.G. Henzell, Esq., C.E.	8	0 9	93 ⅄	22·78	181
D ,, (Museum).....	H. Crowther, Esq.....	10	46 0	177 ⅄	22·52	189
,, (Woodhouse Moor).....	C.G. Henzell, Esq., C.E.	8	0 9	307 ⅄	22·41	195
,, (Weetwood Reservoir) ...	,, ,, ,,	8	0 9	328 ⅄	23·61	201
,, (,, ,,) *new g.*	,, ,, ,,	8	0 9	328 ⅄	22·70	202
,, (,, Lodge).....	J. P. Reay, Esq.	5	0 9	400 T	22·76	159
D ,, (Allerton Hill)	T. E. Fenwick, Esq....	5	0 7	418 ⅄	23·03	203
D ,, (Elmet Hall, Roundhay)...	Mr. J. Purvis.....	5	1 6	400 T	30·50	143
Shipley (Cragg End)	Leeds & L'pool Canal Co.	8	1 0	304	29·18	...
,, (West Point).....	A. M. Paterson, Esq....	5	0 6	382 ⅄	33·87	210
Oakworth (Oldfield)	W. Fowlds, Esq., C.E.	5	1 0	1008 ⅄	44·25	...
Bingley (Gilstead Filters)	J. Watson, Esq., C.E..	5	1 0	572 ⅄	29·98	186
D Keighley (The Knowle)	W. Clough, Esq.	5	1 0	385 T	37·15	222
D Adel (Lawns Wood)	Mr. S. R. Dyson.....	5	1 0	475 T	24·87	174
Bingley (Sunnydale).....	J. Watson, Esq., C.E..	5	1 0	825	31·80	225
D Skipton (Silsden)	Mr. A. Elder	5	1 0	432 ⅄	31·47	198
,, (,, Gill Grange) ...	J. Watson, Esq., C.E..	5	1 0	883	30·76	...
,, (,, Reservoir)	,, ,, ,,	5	1 0	560 ⅄	30·31	205
,, (Cringle's Reservoir) ...	,, ,, ,,	5	1 0	760 T	31·73	205
,, (*Craven Herald* Office)...	E. Townsend, Esq.....	8	2 4	360	34·57	209
,, (Hawthorne Cottage) ...	Leeds & L'pool Canal Co.	8	1 0	380	31·81	...
Gargrave (Banks Hill Bank Newton)	,, ,, ,,	8	1 0	545	36·90	...
,, (Ray Bridge Hill)	,, ,, ,,	8	0 10	459	34·24	...
,, (Great Scarnber Hill)...	,, ,, ,,	8	0 9	676	35·33	...
Winterburn (Long Hill)	,, ,, ,,	8	0 9	705	32·39	...
,, (Brown Hill).....	,, ,, ,,	8	1 0	961	46·28	...
D Malham Tarn ..... *old g.*	Mr. T. Coulthard	5	1 0	1296 ⅄	63·80	239
D ,, ,, ...*new g.*	,, ,, ...	8	1 0	1296 ⅄	63·81	239
WEST RIDING (NORTHERN).						
D Aberford (Lotherton Hall)	Mrs. Trench Gascoigne	8	1 1	200 ?	23·46	170
D Bolton Percy (Appleton House)..	W. R. Innes Hopkins Esq	5	0 9	50	24·56	177
Adel (Eccup, South)	C.G. Henzell, Esq., C.E.	8	0 9	390 T	24·54	206
,, (,, East)	,, ,, ,,	8	0 9	375 ⅄	28·64	189
D Harewood House	Countess of Harewood.	5	0 10	300	27·26	196
D Otley (Danefield)	J. E. Sharpe, Esq.....	5	0 9	393 ⅄	27·59	196
D ,, (Sewage Works)	,, ,, ,, ...	5	0 9	169 ⅄	27·17	181

DIVISION IX.—YORKSHIRE—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height above Ground.	Height above SeaLevel	Depth of Rain. 1906	Days with ·01 or more recorded
		in.	ft. in.	feet.	inches.	
W. RIDING (NORTHERN)-(*con.*)						
Harewood (Arthington)	C.G. Henzell, Esq., C.E.	8	0 9	139 ⅄	32·88	189
D Bolton-by-Bowland	Mrs. Wright	8	0 6	300 T	52·51	199
Ilkley (Glen Rosa)	F. A. Aykroyd, Esq.	8	1 1	600	33·15	177
D ,, (Eaton Road)	A. Wilson, Esq.	5	1 0	395 T	39·84	220
D ,, (Brook Street)	G. W. Worfolk, Esq.	5	20 0	312 ⅄	36·28	202
Pannal (Kirkby Overblow)	A. Rowntree, Esq.	5	0 9	340 T	23·57	154
Leathley (Lindley Wood, S.)	C.G. Henzell, Esq., C.E.	8	0 9	312 T	30·16	228
,, (,, ,, N.)	,, ,, ,,	8	0 9	320 T	29·79	228
D Ilkley (March Gill Reservoir)	J. E. Sharpe, Esq.	5	0 9	665 ⅄	31·96	220
D† York (Mount Villas)	late J.S. Rowntree, Esq.	5	1 0	70	22·76	216
D† ,, (Cherry Hill)	Mrs. H. Richardson	5	1 6	50	21·84	179
† ,, (Museum Gardens)	Meteorological Office	8	1 0	57	22·76	199
D ,, (The Retreat)	Dr. H. J. Mackenzie	5	1 0	74 ⅄	22·28	188
D† ,, (Burton Croft)	late G. Crawhall, Esq.	5	0 10	48 T	22·25	176
† ,, (,, ,,) M	,, ,, ,,	...	...	48 T	22·14	...
Slaidburn (Knowlmere Manor)	W. Peel, Esq.	5	1 0	417 ⅄	64·28	...
,, (Hareden Brook) M	T. Cookson, Esq.	8	1 2	540	75·50	...
,, (Langden Brook) M	,, ,, ,,	8	1 2	556	74·95	...
,, (Whiteholme)	W. K. Wilkinson, Esq.	5	1 3	475 T	55·21	170
Skipton (Counter Hill) M	J. Watson, Esq., C.E.	5	1 0	951 ⅄	29·93	...
,, (Chelker Reservoir) M	,, ,, ,,	5	1 0	730 ⅄	34·51	...
Spofforth (Sewage Works)	F. J. Dixon, Esq., C.E.	5	1 0	184 ⅄	24·85	198
Fewston (Timble Ings)	C.G. Henzell, Esq., C.E.	8	0 9	912 T	35·77	228
,, (,,)	,, ,, ,,	8	0 9	720 T	25·57	195
,, (Swinsty, E.)	,, ,, ,,	8	0 9	460 T	33·03	243
,, (,, W.)	,, ,, ,,	8	0 9	425 T	34·57	243
,, (South)	,, ,, ,,	8	0 9	525 T	33·63	234
,, (North)	,, ,, ,,	8	0 9	525 T	31·73	234
,, (Blubberhouses)	,, ,, ,,	8	0 9	575 T	36·91	238
D Wetherby (Ribston Hall)	Mr. J. McClelland	5	1 2	130 ⅄	27·93	186
Bolton Abbey Estate Office	A. Downs, Esq.	5	1 2	350	40·91	202
Harrogate (Ten Acre Reservoir)	F. J. Dixon, Esq., C.E.	8	1 6	620 T	24·90	186
,, (Bonny Cap)	,, ,, ,,	8	1 6	710 T	29·36	218
,, (Wilson's Farm)	,, ,, ,,	8	1 6	630 T	28·55	216
,, (Scargill)	,, ,, ,,	8	1 0	646	29·58	218
,, (Beaver Dyke Res.)	,, ,, ,,	8	0 11	575 T	29·07	217
§ ,, (Harlow Hill)	,, ,, ,,	5	1 0	480	30·89	211
,, (Irongate)	,, ,, ,,	8	1 6	455 T	26·76	185
D ,, (The Stray)	Mr. G. W. Gledhill	5	1 0	380	27·16	201
D ,, (Park Parade)	,, ,, ,,	5	1 0	400	28·35	201
Slaidburn (Dunsop Houses)	W. Stubbs, Esq., C.E.	8	1 0	450 T	67·11	207
,, (Middle Knoll) M	,, ,, ,,	8	2 6	1298 ⅄	55·60	...
,, (Brennand)	,, ,, ,,	8	1 0	820 ⅄	76·73	214
,, (Whitendale)	,, ,, ,,	8	1 0	830 ⅄	77·91	211
,, (Cabin Hill) M	,, ,, ,,	8	3 1	1559 ⅄	68·70	...
,, (Baxton Fell) M	,, ,, ,,	8	2 6	1540 ⅄	63·00	...
D Goldsborough Hall	Mr. R. Goodall	5	1 0	...	28·29	202

DIVISION IX.—YORKSHIRE—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft in.	feet.	inches.	
W. RIDING (NORTHERN)-(*con.*)						
Barden Reservoir .....*old g.*	J. Watson, Esq., C.E..	8	1 2	746 ⅄	43·40	251
,, ,, ... *new g.*	,, ,, ,,	5	1 2	746 ⅄	41·70	251
,, ,, (Upper).....	,, ,, ,,	5	1 0	1250 ⅄	41·79	251
Harrogate (Bilton).....	F. J. Dixon, Esq., C.E.	5	1 0	208 ⅄	25·76	194
D Nun Monkton...	H. Horsfield, Esq.....	5	0 6	45	22·15	174
D Birstwith (Swarcliffe)	Capt. C. S. Greenwood.	5	1 0	510 T	31·11	199
D ,, (The Moss)	C. S Dixon, Esq.	5	1 0	230	29·14	167
Burnsall (Thorpe Fell) .....M	J. Watson, Esq., C.E...	5	1 0	1661 ⅄	42·12	...
,, (Sandbed Beck) .....M	,, ,, ,, ...	5	1 0	696 ⅄	43·50	...
D ,, Rectory.....	Rev. W. J. Stavert ...	8	4 7	503 ⅄	47·12	233
D Ouseburn(ThorpeUnderwoodHall)	F. W. Slingsby, Esq....	5	1 1	60 T	25·46	185
D Settle (The Terrace)	J. W. Shepherd, Esq..	8	1 2	531 ⅄	47·38	229
D Pateley Bridge (Castle Stead) ...	Mr. C. May.....	5	1 0	410	36·89	193
Grimwith Reservoir .....*old g.*	J. Watson, Esq., C.E..	8	1 0	890 ⅄	48·06	237
,, ,, ... *new g.*	,, ,, ,, ...	5	1 0	893 ⅄	46·75	237
D Grassington (Chapel Ho., Kilnsey)	G. E. Clayton, Esq. ...	5	3 0	670 T	57·33	231
Pateley Moor (Smaden Head) ...	C.G. Henzell, Esq., C.E.	8	0 9	784 ⅄	28·93	199
Dallow Moor (High Skeldon) ...	,, ,, ,,	5	0 9	674 ⅄	26·72	201
† ,, ,, (Harper Hill)	,, ,, ,,	5	0 9	858 ⅄	30·57	219
D Ripon (South Lodge)	Mrs. G. Simpson	5	1 0	126	26·65	194
D ,, (Studley Royal Gardens).	O. H. Wade, Esq.	5	1 6	250	26·37	198
D ,, (The Red House)	F. D. Wise, Esq.	5	1 0	120	26·12	168
Ramsgill (Raygill House)	J. Watson, Esq., C.E..	5	1 0	925 T	46·20	180
,, ...	,, ,, ,,	5	1 0	450 T	32·84	168
D Arncliffe Vicarage	Rev. W. A. Shuffrey...	8	2 6	732 T	67·45	239
D ,, (Amerdale).....	J. Hammond, Esq. ...	8	1 6	742 T	64·86	240
D High Bentham	Mr. Bryan Holmes.....	5	1 0	412 T	43·19	226
D Ingleton Vicarage	Rev. J. Turner	5	0 6	500	46·00	220
D ,, (Kingsdale Head)	Mr. J. Webster	5	0 10	994 ⅄	64·44	230
Nidderdale (High Riggs)	J. Watson, Esq., C.E..	5	1 0	1010 T	53·49	196
,, (Angram).....	,, ,, ,,	5	1 0	1150 T	53·26	239
,, (New Houses)	,, ,, ,,	5	1 0	755 T	45·18	220
†Kirkby Malzeard (Drovers' Inn)..	C.G. Henzell, Esq., C.E.	5	0 9	576 ⅄	39·02	219
† ,, ,, (Hawset)	,, ,, ,, ...	8	0 9	820 ⅄	34·78	221
,, ,, (HambletonHill)	,, ,, ,, ...	8	0 9	1106 ⅄	33·74	...
† ,, ,, (Bagwith Brae).	,, ,, ,, ...	5	0 9	703 ⅄	30·70	210
,, ,, (Stone & Ears Wham)	,, ,, ,, ...	8	0 9	1118 ⅄	38·40	...
D Ripon (High Bank, Mickley) ...	Miss Harrison.....	5	1 6	225 T	27·05	173
Masham Moor (Benjy Guide).....	C.G. Henzell, Esq., C.E.	8	0 9	1411 ⅄	34·13	...
† ,, ,, (Somerside)	,, ,, ,,	5	0 9	928 ⅄	36·35	168
† ,, ,, (High Sour Mire)	,, ,, ,,	5	0 9	884 ⅄	28·70	199
,, ,, (Healey).....	,, ,, ,,	5	0 9	542 ⅄	29·73	203
† ,, ,, (Low Houses).....	,, ,, ,,	5	0 9	693 ⅄	36·59	223
,, ,, (Roundhill Res.).	F. J. Dixon, Esq., C.E.	8	0 6	743 ⅄	33·60	215
,, ,, (,, Farm)	,, ,, ,,	8	0 6	975	33·31	210
D Wharfedale (Oughtershaw Hall)	Miss Woodd	8	1 6	1175 T	80·02	235
D Sedbergh (Dent Vicarage)	Rev. J. A. Hayden ...	5	1 0	484	78·87	233

DIVISION IX.—YORKSHIRE—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
W. RIDING (NORTHERN)-(*con.*)						
D Sedbergh (Akay)	C. E. Taylor, Esq.	5	1 0	400 T	66·27	218
D ,, (Cemetery)	Mr. J. Anderson	5	1 0	374 ⅄	58·73	243
,, (Thorns Hall)	Miss Sedgwick	5	1 0	400 T	60·27	211
EAST RIDING.						
§Patrington (Spurn Head)	Meteorological Office	8	1 0	27	19·36	159
,,	W. B. Pugh, Esq.	5	2 6	46 ⅄	22·21	...
D Hull (Pearson Park)	H. B. Witty, Esq.	5	0 10	6	25·46	190
D ,, (Springhead)	F.J. Bancroft, Esq., C.E.	5	1 7	15 T	25·72	210
D Cottingham (Water Works)	,, ,, ,,	5	1 1	26 T	21·87	172
Beverley (East Riding Asylum)	Dr. M. A. Archdale	5	1 0	175 T	25·99	193
D ,, (Register House)	G. A. Thompson, Esq.	5	1 0	22	26·38	215
,, (New Walk)	W. Evans, Esq., C.E.	5	2 6	40	25·73	192
,, (Hull Bridge)	,, ,,	5	2 6	11 ⅄	23·34	195
Market Weighton (Dalton Hall)	Mr. J. Allsop	5	1 6	150 T	26·00	167
§Deighton Grove [York]	Miss M. L. Whitehead.	5	2 0	40	22·59	180
D Hornsea (Elim Lodge)	T. B. Holmes, Esq.	8	1 6	30 B	23·97	166
Brandesburton (Hempholm)	W. Evans, Esq., C.E.	5	2 6	11 ⅄	24·85	169
D Pocklington (Warter)	J. Coxon, Esq.	5	1 10	230 T	27·08	154
Heslington [York]	Hon. L. de Yarburgh-Bateson	8	0 7	35	22·56	...
Dunnington Hall [York]	Miss Hildyard	8	1 2	110	22·60	194
§Driffield (York Road)	W. E. Lovel, Esq.	5	1 0	76 T	27·71	176
D ,, (Lockwood Street)	W. H. Blakeston, Esq.	8	1 0	60 T	27·46	164
Wetwang	Rev. E. M. Cole	5	1 0	235 T	25·34	162
D Thixendale	Rev. W. H. Fox	10	0 10	425 T	27·83	216
D Lowthorpe (The Elms)	H. Onslow Piercy, Esq.	5	1 0	63 ⅄	24·83	194
D Welham [Malton]	Donald Walker, Esq.	5	0 10	75 T	23·96	151
Hunmanby (Holly Bank)	Miss Suter	5	1 2	...	22·44	...
NORTH RIDING.						
D Warthill (Brockfield Hall)	W. Talbot Agar, Esq.	5	...	...	25·59	237
Alne	R. Godfrey, Esq., C.E.	5	0 10	80	23·48	170
D Easingwold (Marton Vicarage)	Rev. F. S. Newman	5	3 3	200 T	23·52	148
Terrington Hall	Mr. T. Suffield	5	1 5	300 T	25·38	241
D Malton	M. B. Slater, Esq.	10	0 10	139 ⅄	23·63	168
D§Hovingham Hall	Sir W. H. A. Worsley, Bt.	5	0 6	120	28·64	189
D Thirsk (Dalton)	Rev. G. H. Chilman	5	1 0	87 T	22·73	217
§Ampleforth Abbey	Meteorological Office	...	1 0	350	34·29	185
D Thirsk (Sowerby)	A. C. Bamlett, Esq.	5	...	...	23·21	145
D ,, (The Hall)	Reginald Bell, Esq.	5	1 10	120 T	23·37	174
,, (Mount St. John) *Snow g.*	A. J. Walker, Esq.	5	1 7	535 ⅄	26·21	...
D ,, (,, ,, ,,)	,, ,, ,,	5	1 0	523 ⅄	26·70	190
,, (,, ,, ,,) M	,, ,, ,,	5	1 10	542 ⅄	26·11?	...

DIVISION IX.—YORKSHIRE—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
NORTH RIDING—(*con.*)						
Thirsk (Boltby)	A. J. Walker, Esq.	5	0 7	495 ⅄	28·30	...
,, (Cliff Head, Boltby) M	,, ,, ,,	5	4 7	773 ⅄	23·26	...
,, (,, ,, ,,) M	,, ,, ,,	5	1 4	772 ⅄	28·88	...
,, (Newbuilding)	G. S. Thompson, Esq.	5	0 10	575	27·92	154
D Cowesby Hall	W. A. C. Lloyd, Esq.	5	0 8	500	*30·18*	*187*
D Thornton-le-Dale	A. Priestman, Esq.	5	1 0	150 T	27·42	187
D Pickering	Dr. J. L. Kirk	5	1 0	150	26·13	216
D Bedale (Burneston)	Rev. Canon J. T. Hartley	5	3 9	110 T	23·60	187
,, (Thorpe Perrow)	Mr. W. Pattison	5	1 3	170	25·12	150
D ,, (Park House)	Miss M. Greenwood	5	1 1	180	23·10	212
,, (Newton House)	Mr. W. Paylor	5	2 6	125	22·86	...
D Northallerton (Thornton-le-Moor)	Col. R. W. Peckitt	5	1 0	136 T	26·25	181
D Leyburn (Bolton Hall)	Mr. F. Scrivener	8	1 0	420	32·59	199
D Seamer (Irton)	W. Millhouse, Esq. C.E.	8	1 0	94 ⅄	27·88	192
Scarborough (Osgodby)	,, ,,	8	1 0	166 ⅄	22·82	...
§ ,,	Royal Meteorological Soc	5	1 0	101	23·00	184
D ,, (Scalby)	Mrs. J. W. Rowntree	5	0 11	300 B	29·65	182
D Bedale (Ivy Cottage, Fencote)	Mr. W. Culverwell	5	1 6	125 T	22·80	173
D Northallerton (Osmotherley)	T. Yeoman, Esq.	8	0 8	660	23·99	146
§ Rounton Grange	Royal Meteorological Soc	8	1 0	249	26·23	213
Richmond (Gilling West)	G. Roper, Esq.	5	1 3	303 T	27·79	156
Fylingdales (The Vicarage)	Rev. R. Jermyn Cooper	...	...	...	23·50	...
D Ingleby Manor	Lord De L'Isle	5	0 11	460 T	32·77	198
D ,, Greenhow	Mr. P. Huntington	5	1 0	448 T	33·79	220
D East Layton Hall	Mrs. Proud	11	1 0	575 T	26·22	142
D Stanwick Park [Darlington]	Mr. W. Higgie	5	1 1	300 T	25·04	203
D Forcett Park [,,]	Capt. P. M. French	6	1 6	351 T	25·05	171
D Whitby (Park Hall, Aislaby)	Rev. J. H. Richardson	5	1 0	500	29·80	226
D§ ,, (Royal Crescent)	T. Newbitt, Esq.	8	5 10	90	20·61	163
D Great Ayton (Easby Hall)	J. J. Emerson Esq., LL.D.	5	1 0	355	30·43	194
D Kildale Hall	R. B. Turton, Esq.	5	1 2	600 T	34·46	177
D Stokesley (Seamer)	J. Pounder, Esq.	5	1 4	250	25·53	181
D Whitby (Mulgrave Castle)	Mr. J. Corbett	5	1 0	410 T	26·79	189
D Guisborough (Lockwood Beck Res)	W. I'Anson, Esq., C.E.	8	1 0	632 ⅄	30·85	197
,, (,, ,, ,,) M	,, ,, ,,	8	...	...	30·60	...
D Middlesbrough (Ormesby)	Mr. W. Sanderson	5	1 0	100 T	23·86	191
D ,, (Linthorpe)	Mrs. C. L. Bell	8	1 0	48 T	21·53	193
D ,, (Albert Park)	J. M. Parnaby, Esq.	8	1 0	30	20·47	180
D ,, (Skelton Castle)	Mr. J. R. Batty	5	0 9	272 ⅄	25·02	169
§ Saltburn-by-the-Sea	Meteorological Office	...	...	...	17·94	169
D† Hury Res. [Barnard Castle]	D. D. Wilson, Esq.	8	1 0	866 T	32·42	202
D† Grassholme Res. [Middleton]	,, ,, ,,	8	1 0	936 ⅄	38·16	212
D† Mickleton	Dr. H. R. Mill	8	1 0	850	27·71	205
† ,, (Lime Kiln Pasture) 1	,, ,, ,,	8	1 0	1175 T	30·20	...
† ,, (,, ,, ,,) 2	,, ,, ,,	8	1 0	1175 T	30·90	...

DIVISION X.—NORTHERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.		Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft.	in.	feet.	inches.	
DURHAM.							
D Darlington (Hurworth Grange)..	Mrs. J. E. Backhouse...	5	1	0	161 ⅄	24·72	190
D ,, (Cleveland Parade)..	W. W. Willmott, Esq.	5	1	3	160 T	24·19	189
D ,, (Public Park).....	Mr. J. Morrison	5	1	0	...	24·19	171
,, (Hummersknott) ...	Mr. J. Short	5	1	0	200	22·80	...
D†Barnard Castle (County School)..	R. Hitchcock, Esq. ...	5	1	6	540 ⅄	25·78	211
D Gainford	W. Gregson, Esq.	5	1	0	260 T	20·97	169
Stockton (Rimswell)	W. Anderson, Esq., C.E.	8	1	0	100 T	25·61	213
,, (Ropner Park)	M. H. Sykes, Esq.....	5	1	9	61 ⅄	24·71	163
D Hurworth Burn (Crookfoot).....	T. Bower, Esq., C.E...	10	1	6	293 ⅄	22·98	199
West Hartlepool (Lynn Street)..	Mr. H. Lamb.....	5	65	0	84	17·84	166
D ,, ,, (Water Works)	T. Bower, Esq., C.E...	10	1	0	35 ⅄	24·44	149
D ,, ,, (Bradgate).....	G. H. Baines, Esq.....	8	1	3	100 T	24·19	200
D Hurworth Burn.....	T. Bower, Esq., C.E....	10	1	0	357	25·14	169
D Hartlepool (Hart Reservoir).....	,, ,, ,, ...	10	1	0	172 ⅄	20·88	156
Wolsingham	A. Mitchell, Esq.	5	1	0	464 ⅄	27·58	...
D Stanhope (Parson Byer's Quarry)	Messrs. Bell Bros.	5	6	8	846 T	26·12	168
D Wearhead Station	Mr. R. Rust	5	0	6	1104	48·55	195
§Durham Observatory.....	Meteorological Office ...	12	4	0	340	23·79	181
D§Ushaw (St. Cuthbert's College)..	Rt.Rev.Mgr. Corbishley	5	0	9	600 ⅄	26·12	190
D Weardale W.W. (Tunstall) ...	R. Askwith, Esq., C.E.	8	1	2	724 ⅄	30·82	179
,, ,, (Waskerley 6)	,, ,, ,, ...	8	4	2	1229 ⅄	25·79	...
,, ,, (,, 3)	,, ,, ,, ...	8	4	6	1433 ⅄	30·50	...
,, ,, (,, 4)	,, ,, ,, ...	8	4	7	1321 ⅄	26·36	...
,, ,, (,, 5)	,, ,, ,, ...	8	4	2	1244 ⅄	28·00	...
D ,, ,, (,,)	,, ,, ,, ...	8	0	11	1179 ⅄	32·40	218
,, ,, (,, 2)	,, ,, ,, ...	8	4	5	1367 ⅄	27·85	...
,, ,, (,, 1)	,, ,, ,, ...	8	4	4	1317 ⅄	26·41	...
D ,, ,, (SmiddyShaw)	,, ,, ,, ...	8	1	3	1128 ⅄	32·77	224
Seaham (Dalton Pumping Sta.)..	A. B. E. Blackburn, Esq.	8	1	0	345 ⅄	24·39	173
Fence Houses (Chilton Moor) ...	V. W. Corbett, Esq. ...	5	1	4	186 T	24·18	...
D Seaham Harbour	Mr. G. H. Aird	8	1	6	141	25·29	179
,, Hall	Mr. R. Draper	5	1	0	112 ⅄	25·58	...
Ryhope Pumping Station	A.B. E. Blackburn, Esq.	8	1	1	228 ⅄	24·96	182
D Burnopfield (Leazes Hall).....	H. F. Bulman, Esq. ...	5	1	0	585 T	28·83	179
D Sunderland (W. Hendon Ho.) No.5	T. W. Backhouse, Esq.	5	1	0	130 ⅄	25·94	186
,, (,, ,, ,,) No.6	,, ,, ,,	5	1	0	130 ⅄	26·07	190
D ,, (Mowbray Park)	H. Renny, Esq., M.D...	5	1	0	105	25·89	196
,, (Claxheugh Grove) ...	J. P. Cornett, Esq.....	5	2	6	90	26·00	...
D ,, (The Cedars)	W. F. Vint, Esq.	5	0	6	115 T	27·18	178
,, (Cleadon Pumping Sta.)	A.B. E. Blackburn, Esq.	8	1	0	216 ⅄	25·12	169
D Ryton-on-Tyne	J. P. Dalton, Esq.....	5	1	0	258 ⅄	26·76	186
D ,, ,, (Balgonie House)	J. W. Smith, Esq., M.D.	5	1	6	258	25·29	158
NORTHUMBERLAND.							
D Corbridge (Howden Dene)	J. H. Straker, Esq. ...	5	0	9	200 T	30·21	207
D Bardon Mill (Beltingham Vic.)..	Rev. H. C. Newbery ...	5	3	0	323	33·53	218
D Newcastle (Clifton Road)	E. L. Merz, Esq.	8	1	6	315	23·46	161
,, (Lit. and Phil. Soc.)..	H. Richardson, Esq. ..	8	55	0	160	32·29	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
NORTHUMBERLAND—(*con.*)						
§Newcastle (Northumberland Rd.)	N. H. Martin, Esq. ...	8	45 0	200	24·58	200
,, (Leazes Park)	C.R.S. Kirkpatrick, Esq., C.E.	5	1 0	255 ⅄	*27·19*	...
D ,, (Town Moor)	A. Wright, Esq.	5	2 0	201 ⅄	30·19	207
,, (Wellburn, Jesmond).	W. H. Holmes, Esq....	5	1 6	163 T	28·84	153
§North Shields (Dockwray Square)	Meteorological Office ...	8	1 4	117	26·54	190
D Tynemouth (Tyne Pier Works)..	J. Walker, Esq., C.E...	5	1 8	65 ⅄	27·95	189
Stamfordham Vicarage.....	Rev. G. Evans-Gwynne	5	0 6	422	31·26	...
Whittle Dean (Newcastle W.W.)	A. L. Forster, Esq., C.E.	5	0 6	380	27·30	180
,, ,, Filters(,, ,,)	,, ,, ,,	5	1 1	353	27·77	...
Whittington (,, ,,)	,, ,, ,,	8	0 9	528	27·80	...
Burnside (,, ,,)	,, ,, ,,	5	0 9	419	29·49	...
N. Tyne (Green Crag)(,, ,,)	,, ,, ,,	5	1 6	896 ⅄	30·65	...
Ryal Cottage (,, ,,)	,, ,, ,,	10	0 9	463	40·66?	...
Hallington (,, ,,)	,, ,, ,,	5	1 0	467 ⅄	30·21	...
,, Reservoirs(,, ,,)	,, ,, ,,	5	1 0	470	30·09	184
,, (Fawcett) (,, ,,)	,, ,, ,,	5	1 2	537 ⅄	29·85	...
,, (Cheviot) (,, ,,)	,, ,, ,,	5	1 2	576	28·35	...
Gunnerton Burn (Camphill)(,, ,,)	,, ,, ,,	5	1 1	650 ⅄	30·68	...
Colt Crag (,, ,,)	,, ,, ,,	5	1 0	654	30·79	...
D Scots Gap (Wallington)	Mr. E. Keith	8	2 9	446 T	35·32	192
D Angerton Hall	Mr. R. Elliott	5	1 0	320 ⅄	33·47	194
Morpeth	T. Matheson, Esq.....	8	1 6	100	30·10	146
D ,, (Bothalhaugh Garden)..	Hon. & Rev. W. C. Ellis	5	1 10	35	29·21	208
,, (,, ,,)M	,, ,, ,, ,,	5	1 10	35	29·12	...
D ,, (,, Lawn)....	,, ,, ,, ,,	5	1 10	137	28·42	210
,, (,, ,,) M	,, ,, ,, ,,	5	1 10	135	29·02	...
Morpeth (Longhirst Hall).....	Lord Joicey.....	7	1 0	168	27·90	...
D§ ,, (Cockle Park).....	T. B. Hewetson, Esq...	8	1 0	325 ⅄	31·05	198
D Font Res. (Tynemouth W.W.)..	F. R. Hull, Esq., C.E...	10	0 6	620 ⅄	30·57	185
Redpath (,, ,,)..	,, ,, ,, ...	10	0 6	850 T	34·07	...
Tod Crag (,, ,,)..	,, ,, ,, ...	10	0 6	1000 T	34·44	...
Fallowlees (,, ,,)..	,, ,, ,, ...	10	0 6	850 T	36·66	...
Chartners (,, ,,)..	,, ,, ,, ...	10	0 6	1000 T	35·13	...
Rothbury (Brinkburn Priory) ...	Mrs. Hugh Fenwick ...	8	1 2	257 T	34·18	...
D§ ,, (Cragside).....	Lord Armstrong.....	8	1 0	405 ⅄	36·13	168
Redewater (Chattlehope)	A. L. Forster, Esq., C. E	5	1 0	900	48·20	..
,, (Catcleugh)	,, ,, ,,	5	1 0	819	45·48	...
Alwinton (Biddleston Hall)	P. Dodds, Esq.	5	1 0	820 T	38·67	177
§Alnwick Castle	Meteorological Office ...	5	0 4	178	37·17	189
D Glanton (Glanton Pyke Gardens)	Mr. J. Henderson	8	4 2	521 ⅄	31·78	163
D Howick Hall	Earl Grey	8	0 10	121 ⅄	31·22	160
Ilderton (Lilburn Tower)	A. B. Collingwood, Esq.	10	6 0	300 T	29·93	...
D ,, (,, Cottage)	N. D. Cowans, Esq. ...	8	1 0	340 T	32·78	167
D ,, (,, ,,)	,, ,, ,, ...	5	1 2	340 T	31·59	167
Wooler (St. Ninians).....	Dr. R. Walker	8	0 10	176 T	*35·10*	...
D ,, (Fenton)	Hon. F. W. Lambton, MP	8	1 6	240	34·67	195
Bamburgh	Mr. R. W. Clark	5	1 0	75 L	*30·35*	...
D Pawston [Coldstream]	B. P. Selby, Esq.	8	1 0	328 T	37·94	185

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above SeaLevel	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
NORTHUMBERLAND—(*con.*)						
Beal (Barmoor Castle)	T.Hodgkin, Esq.,D.C.L.	8	3 6	400	35·65	177
D Holy Island (St. Aidan's)	A. Wilson, Esq.	5	1 0	30 ⅄	27·22	180
CUMBERLAND.						
D Millom (Leyfield)	CedricVaughan,Esq.CE	5	1 2	81 ⅄	45·13	230
D Ravenglass (The Grove)	A. Watt, Esq.	5	1 2	84 ⅄	42·73	204
§Eskdale Green (Gatehouse)	Mr. L. Burnett	5	0 10	215 T	56·66	222
D Beckfoot	Rev. T. W. Fair	5	1 0	180 T	66·61	242
D Seascale (Whinthwaite)	Dr. Hellon	5	1 0	52 ⅄	35·78	202
D Gosforth (Bolton Hall)	Col. J. R. Bain	5	1 8	135 T	49·22	209
D ,, (Ellerslie)	W. H. Kitchin, Esq.	5	1 0	185 ⅄	46·87	194
Wasdale Head Vicarage	Miss Theresa Plues	5	...	200	100·39?	...
Sprinkling Tarn M	Dr. H. R. Mill	4	0 6	1985	142·70	...
Styehead Tarn M	,, ,, ,,	4	0 6	1472 T	141·65	...
The Stye B M	,, ,, ,,	4	1 0	1077 T	177·25	...
,, C M	,, ,, ,,	4	1 0	1077 T	177·70	...
,, D M	,, ,, ,,	4	1 0	1077 T	145·30	...
Borrowdale (Seathwaite) M	,, ,, ,,	4	0 6	422 T	130·55	...
,, (,,)	,, ,, ,,	5	1 0	422 T	130·25	239
D§ ,, (,,)	RoyalMeteorologicalSoc	5	1 0	423 T	130·66	229
,, (,,)	Miss C. Marshall	5	1 0	423	130·40	...
Ullscarf M	G. H. Hill, Esq., C.E.	7	1 8	2100 T	107·20	...
Cleator Moor Water Works	R. Robertson, Esq.,C.E.	5	1 6	395 T	52·84	153
D Frizington (Parkside Mines)	Parkside Mining Co.	8	20 0	320 T	43·21	172
Helvellyn (Birkside) M	G. H. Hill, Esq., C.E.	7	1 3	1900 T	85·70	...
Wythburn	,, ,, ,,	7	1 4	580 T	81·90	...
D Borrowdale (The Moraine)	R. J. Pollard, Esq.	5	1 0	350	92·62	216
D Buttermere (Hassness)	Mr. R. Johnston	5	1 0	355	103·31	226
Whitehaven (Hensingham Ho.)	E.LonsdaleNanson,Esq.	5	1 6	280	39·79	225
D Borrowdale (Grange)	Mr. J. Threlkeld	5	0 9	271 T	80·86	211
ArmbothFells (The Pewitts)	G. H. Hill, Esq., C.E.	7	1 6	1650 T	83·60	...
Helvellyn (Whiteside)	,, ,, ,,	7	1 6	2100 T	72·60	...
Thirlmere (Dale Head Hall)	,, ,, ,,	7	1 5	620 T	72·60	...
D Whitehaven (Irish Street)	Dr. Welby I'Anson	5	1 1	21 ⅄	41·81	217
Distington (Gilgarran)	Mr. A. Kydd	5	4 9	470 T	39·67	196
Ullswater (Hallsteads)	Miss C. Marshall	5	2 0	497 T	60·87	211
Keswick (Deer Close)	John Marshall, Esq.	7	1 9	300 T	54·95	221
,, (Derwent Island) *old g.*	,, ,, ,,	5	0 7	280	54·85	247
,, (,, ,,) *new g.*	,, ,, ,,	5	0 6	290	53·47	247
D ,, (York City & Co. Bank)	Mr. R. W. Mayson	5	1 6	265 T	52·82	227
D ,, (Shu-le-crow)	A.MitchellDawson,Esq.	5	0 7	296 T	54·02	232
D ,, (Crosthwaite School)	Mr. H. Swinburn	5	1 0	254 T	51·66	220
D Cockermouth (Ullock)	J. H. Walker, Esq.	5	1 0	313 ⅄	48·87	206
D Workington (Winscales)	Mrs. J. A. Trench	5	1 6	440 T	39·16	197
D Cockermouth (Whinfell Hall)	Mrs. F. M. Peile	5	0 1	255 ⅄	56·76	230
D ,, (Brandlingill)	the late Col. F.R.Sewell	9	1 0	320 ⅄	56·32	225
Bassenthwaite (Higham)	Joseph Fisher, Esq.	5	0 9	500	45·62	191
D ,, (Bassenfell)	Mrs. S. G. Rathbone	8	1 0	384	44·64	220

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
CUMBERLAND—(*con.*)						
D Cockermouth (Broughton Grange)	G. S. Wilson, Esq. ...	5	1 3	209 ⅄	41·62	210
Hutton John	Rt. Hon The Speaker, MP	5	0 11	700 T	50·51	208
Penrith (Nandana)	G. Varty-Smith, Esq...	5	1 0	650 T	30·02	260
,, (Fir Bank, Fell Lane) ..	T. Lester, Esq.	5	1 0	575 T	33·64	194
§ ,, (Newton Rigg).....	Meteorological Office ...	...	...	559	35·64	212
,, (Greystoke)	H. Walker, Esq.	5	1 3	650	45·57	...
D ,, (,, Belle Vue)..	the late Mr. M. Rowe...	5	4 0	680 T	39·02	218
,, (Ennim)	Mrs. Hamlet Riley ...	8	0 6	660	41·51	185
,, (Inglewood)	H. F. Thompson, Esq..	5	1 0	550 T	36·63	180
D Bassenthwaite (Armathwaite Hall)	T. M. Hartley, Esq. ...	8	1 0	305	43·47	233
Maryport (Netherhall)	Mrs. H. P. Senhouse...	5	0 6	27 ⅄	37·13	...
§ Udale (Chapel House Reservoir).	Meteorological Office...	8	1 0	600	48·12	223
D Penrith (Nunwick Hall)	Mrs Heywood Thompson	5	1 0	298 T	34·58	211
§ Aspatria	Meteorological Office ...	8	1 0	251	40·26	208
D ,, (Brayton Hall)	Mr. A. Knight	8	0 9	200	39·77	152
D Wigton (Brookfield)	J. J. Jopling, Esq.....	5	0 9	124 ⅄	40·82	214
Wreay Vicarage.....	Rev. A. R. Hall	5	2 0	310 T	35·76	204
Silloth	A. C. Allen, Esq.	8	1 0	22 ⅄	35·38	179
D Geltsdale.....	H. C. Marks, Esq., C.E.	5	1 2	924 ⅄	35·12	213
Carlisle (Cemetery)	J. Veitch, Esq.	8	4 0	114 ⅄	31·88	194
,, (Rickerby)	Miles MacInnes, Esq...	8	1 2	52 T	28·36	...
,, (Stanwix)..... ..	Sir Benjamin Scott ...	8	1 6	100 T	30·45	183
D ,, (Newby Grange)	T. H. Hodgson, Esq....	5	0 8	64 ⅄	30·00	209
§ ,, (Scaleby)	Royal Meteorological Soc	5	1 0	112	36·33	233
D Brampton (Denton House)	Miss B. Gardhouse.....	5	1 5	541 ⅄	36·59	218
D Penton (Warwicksland School)..	W. Roden, Esq.....	5	1 0	250 B	40·83	226
WESTMORLAND.						
Kirkby Lonsdale	J. R. Picard, Esq.....	7	0 8	215 T	56·51	...
D ,, ,, (Casterton).....	R. A. Clarke, Esq.....	8	1 0	305	57·91	245
D ,, ,, (Barbon Manor)	A. Ford, Esq.....	6	1 3	650 T	54·36	189
D ,, ,, (,,)	Miss Wilkinson	5	1 0	310 T	53·09	202
D Milnthorpe (Leasgill)	T. A. Argles, Esq.....	5	0 8	130	46·73	217
D ,, (Crosthwaite Vic.) ...	Rev. T. Heelis	5	1 0	160 ⅄	56·08	216
D ,, (Beathwaite, Levens)	W. H. Crewdson, Esq..	5	1 3	120 T	52·92	203
Kendal (Natland Vicarage)	Rev. W. Kewley	5	1 5	162	49·96	222
D ,, (Helm View)	W. Thomson, Esq., C.E.	5	1 0	138	52·57	160
D ,, (Holmcroft)	R. Rhodes, Esq.....	5	1 3	176 T	56·59	218
D ,, (Ivy Garth)	R. J. Nelson, Esq.....	5	1 6	146 T	56·11	213
D Bowness (Lindeth Howe)	F. G. Senior, Esq.....	5	1 0	250 T	62·95	221
D ,, (Fallbarrow)	J. Leeming, Esq.	8	1 0	135 T	62·10	212
Windermere	Miss C. Marshall	5	1 0	290 ⅄	60·03	229
D ,, (Fellside)	T. D. Lingard, Esq. ...	5	0 6	310 ⅄	59·35	197
D ,, (Holehird).....	W. G. Groves, Esq. ...	5	1 0	483 L	65·22	226
D Ravenstonedale	Rev. R. W. Metcalfe...	5	1 2	800 T	58·34	215
D Ambleside (Skelwith Bridge) ...	A. J. Adams, Esq.....	5	1 9	190 T	96·52	216
Little Langdale (Fell Foot) ...M	Miss C. Marshall	5	2 2	380	116·35?	...
D Ambleside (Gale House)	G. A. Johnston, Esq. M.D.	5	1 0	250 T	76·75	238

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
WESTMORLAND—(*con.*)						
D Ambleside (Lesketh How)	Mrs. Benson	5	2 6	175 T	102·94	267
,,	Miss C. Marshall	...	...	...	81·62	268
D Elterwater Hall	Miss M. Astley	5	1 1	243	94·99	230
Rydal (The Stepping Stones)	Gordon Wordsworth Esq	5	1 3	190	83·27	250
,, (,, ,, ,,) M	,, ,, ,,	5	1 3	190	84·36	...
D Loughrigg (Silverthwaite)	Miss A. Sharp	5	1 0	292	74·15	226
,, (,,) *2nd g.*	,, ,,	...	...	...	78·94	223
D Dungeon Ghyll	Miss C. Marshall	5	1 0	310	113·64	263
,, ,, M	,, ,,	5	1 0	311	*112·05*	...
Mickleden M	,, ,,	5	1 6	490	*128·73*	...
D Grasmere (High Close)	F.M.T. Jones Balme, Esq	8	0 9	553 T	88·92	216
D ,, (The Wray)	Miss G. M. Simpson	5	1 0	221 T	94·45	241
D Kirkby Stephen (Redmaine Ho.)	Mrs. T. Mason	5	1 0	574 T	40·34	198
Shap Vicarage	Rev. W. H. Crompton.	5	1 0	863 T	44·79	191
Grizedale (Ruthwaite Lodge)	Miss C. Marshall	8	1 6	1750	93·80	...
Patterdale Hall	,, ,,	5	1 3	490 T	79·90	212
,, (Greenside Mine)	W. H. Borlase, Esq.	7	1 6	1000 T	88·92	...
D§Appleby (Castle Bank)	C. R. Rivington, Esq.	5	1 2	440 T	37·69	214
Ullswater (Swarth Fell) M	Dr. H. R. Mill	5	1 3	1000 T	46·00?	...
,, (Sharrow Bay)	Mr. G. Robinson	5	0 7	600	42·72	...
D Great Strickland (Greencroft)	Mrs. Whiteside	5	2 0	648 ⅄	38·66	209
D Morland [Penrith]	Miss M. F. Markham	5	1 0	456 T	37·94	213
Lowther Castle [Penrith]	Mr. F. Clarke	8	4 0	760 T	32·41	209
Cliburn Rectory [Penrith]	Mrs. Burton	5	1 10	459 T	31·67	...

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

MONMOUTH.						
§Rumney (Witla Court)	H. Heywood, Esq.	5	1 0	176 ⅄	39·58	205
Caldicot Level (Porton)	Togarmah Rees, Esq. CE	5	1 3	27 ⅄	27·76	216
D Portskewett (Sudbrook)	W. K. Laurence, Esq. CE	8	0 10	22 T	27·67	164
Bassalleg (Bryn Hedydd)	Togarmah Rees, Esq. CE	5	0 8	333 ⅄	42·95	173
Caerleon (Llanwern House)	D. A. Thomas, Esq., M.P.	8	1 0	190 T	31·44	187
§Newport (Friar Street Yard)	Meteorological Office	...	...	...	38·81	194
§ ,, (Ynis-y-bro)	,, ,,	5	1 0	115	34·56	168
§ ,, (Pant-yr-eos Res.)	,, ,,	...	...	...	50·31	178
D ,, (W.W., New Mill)	Baldwin Latham Esq CE	5	1 0	371 ⅄	41·08	206
D ,, (,, Llanvaches)	,, ,, ,,	5	0 10	514 ⅄	34·76	202
D ,, (Wentwood)	,, ,, ,,	5	1 0	481 ⅄	36·82	195
D Chepstow (Piercefield Park)	H. Clay, Esq.	5	1 6	310	32·75	159
D ,, (Itton Court)	E. Curre, Esq.	5	1 0	390	37·10	186
D Llanfrechfa Grange	F. J. Mitchell, Esq.	5	4 0	326 ⅄	39·81	189
Tredunnock	Rev. C. T. Salusbury	5	2 3	170 ⅄	32·64	168
D§Newport (W.W., Newchurch)	Baldwin Latham Esq CE	5	1 0	496 ⅄	38·49	193
Abersychan (The Hawthorns)	J. W. Mulligan, Esq, MD	5	1 0	755 T	46·09	206
§ ,, (Glansychan)	Meteorological Office	3	2 0	700	46·70	150
D Tredegar (The Willows)	G. A. Brown, Esq., M.D.	8	1 0	1024 T	55·37	180

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
MONMOUTH—(*con.*)						
D Monmouth (The Hendre)	Mr. T. Coomber	8	1 0	176 T	26·51	176
Abergavenny (Larchfield)	Dr. J. Glendinning	5	1 0	240 T	33·01	169
,, (Dyne House)	Dr. S. H. Steel	5	1 5	220 T	35·59	190
D ,, (The Chain)	W. Baker Gabb, Esq.	5	1 3	300	33·68	172
D Monmouth (Pentwyn)	Rev. Canon Harding	5	1 0	191 B	26·84	162
Llantilio Court	Sir H Mather-Jackson Bt	5	0 11	207	26·08	...
,, Crossenny (Brynderi)	Dowager Lady Jackson	...	...	570 T	30·38	...
GLAMORGAN.						
D Barry (Canon Street)	E. W. Waite, Esq., C.E.	5	1 0	97	35·38	191
Cowbridge (Fonmon Castle)	O. H. Jones, Esq.	8	1 2	130	36·22	185
D Barry W. W. (Biglis)	E. W. Waite, Esq., C.E.	5	1 0	20 T	33·64	197
,, ,, (Merthyr Dofan)	,, ,, ,,	5	1 0	300 T	38·80	...
,, ,, (Pencoedtre)	,, ,, ,,	5	1 0	200 T	37·30	...
D ,, ,, (Dinas Powis Res.)	,, ,, ,,	5	1 0	165 T	36·87	188
D Lower Penarth	E. I. Evans, Esq., C.E.	5	1 0	67 ⅄	35·93	252
D Penarth	,, ,, ,,	5	5 0	160 ⅄	36·22	211
Cardiff (Cogan Pill, Llandough)	C. H. Priestley, Esq. C.E.	5	1 0	121 ⅄	38·88	200
,, (Trade Street)	,, ,, ,,	5	1 0	45	39·00	190
D ,, (Roath Park)	E. Walford, Esq., M.D.	5	1 0	50	40·73	214
D ,, (Ely)	C. H. Priestley, Esq. C.E.	5	1 0	53 ⅄	43·49	224
D Porthcawl	R. W. Jones, Esq.	8	1 0	44 ⅄	36·84	209
Llandaff (Howell's School)	Miss A. G. Winny	5	1 4	86 T	39·14	...
Cardiff (New Filters, Heath)	C. H. Priestley, Esq. C.E.	5	1 0	132	41·46	191
,, (Llanishen Reservoir)	,, ,, ,,	5	1 0	155	40·63	190
D ,, (Lisvane Reservoir)	,, ,, ,,	5	1 0	150	39·91	190
Cowbridge (Ash Hall)	E. Tudor Owen, Esq.	8	3 0	315 ⅄	47·56	206
D Llantrisant (Talygarn)	G. L. Clark, Esq.	5	4 3	250	61·20	196
D Oystermouth (Newton)	Rev. Secretan Jones	5	0 9	279 T	49·89	211
D Mumbles	F. W. Harrison, Esq.	...	...	20	48·40	210
D§ Port Talbot (Twyn-yr-hydd, Margam)	G. Lipscomb, Esq.	5	1 0	180 T	49·57	220
Caerphilly (The Court House)	Dr. Kenneth Mackenzie	5	1 2	309 ⅄	48·23	...
D Gilfach Goch (Gilfach House)	W. W. Hood, Esq.	8	3 0	701 T	63·55	193
Pontypridd (Maesderwen, Graig)	T. Bowen, Esq.	5	10 0	425 T	47·17	196
D Caerphilly (Ystrad Mynach)	Lt.-Col. M. Lindsay	8	0 5	315 ⅄	48·17	173
D Swansea (New Dock Works)	R. S. Oldham, Esq., C.E.	5	3 11	31 ⅄	44·51	218
,, Harbour	A. O. Shenck, Esq., C.E.	12	14 9	46	47·05	213
,, (Killay House)	M. B. Williams, Esq.	5	0 6	265 T	54·03	189
D ,, (The Knoll)	E. H. Perkins, Esq.	8	1 0	150 ⅄	52·19	225
D ,, (Glanmor Crescent)	T. Travers Wood, Esq.	5	1 0	235 ⅄	50·75	215
D Llwynypia (Glyncornel) No. 1 (R)	W. W. Hood, Esq.	10	4 0	495 ⅄	83·84	200
D ,, (,,) No. 2	,, ,, ,,	8	3 3	494 ⅄	70·90	200
D Briton Ferry	H. A. Clarke, Esq.	5	1 0	33 ⅄	52·93	213
Morriston (Glanravon)	Ll. J. Naysmith, Esq.	5	1 0	53 ⅄	57·79	201
D Ystradyfodwg (Fever Hospital)	J. D. Jenkins, Esq., M.D.	5	1 0	590 T	62·55	183
D Neath	E. C. Pole, Esq.	5	1 0	204 ⅄	57·72	213
,, (Fairy Land)	Major E. Ll. Green	5	1 9	175 ⅄	54·70	225

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
GLAMORGAN—(*con.*)						
D Glyncorrwg	T. F. Brown, Esq., C.E.	5	4 6	717 B	69·70	185
Rhondda (Pont Lluest Wen Res.)	W. Jones, Esq.	5	1 0	1225	59·44	...
D Mountain Ash (Maesydderwen)	M. Morgan, Esq.	5	1 0	483 ⅄	51·46	207
D ,, ,, (Darranlas Res.)	W. G. Thomas, Esq.	5	0 11	540	55·63	206
,, ,, (Clydach Res.)	,, ,, ,,	5	1 0	930	72·91	215
D Treherbert (Bute Colliery)	Sir W. T. Lewis, Bart.	5	1 0	670	79·71	212
D ,, (Tyn-y-waun)	O. Thomas, Esq.	5	1 0	801	80·80	235
,, (,,) M	,, ,, ,,	5	1 0	801	81·29	...
D Gorseinon (Penllergaer)	Sir J.T.D.Llewelyn, Bt.	5	3 0	240 T	60·24	217
D Aberdare (The Mardy)	Sir W. T. Lewis, Bart.	5	2 0	431 ⅄	50·78	197
,, (Abernant)	Evan Jones, Esq.	5	1 6	430	55·19	...
D Felindre (Lliw Reservoir)	R. H. Wyrill, Esq., C.E.	8	1 3	426 T	60·84	225
D Dowlais (Gwernllwyn)	R. C. Harrison, Esq.	5	1 6	1071 ⅄	46·62	196
D Ystalyfera (Wern School)	Mr. J. Williams	5	1 3	240 T	67·26	211
D Cwmaman Colliery	W. J. Heppell, Esq.	5	2 2	930 ⅄	70·97	224
CARMARTHEN.						
D Llanelly (Old Market Yard)	G. Watkeys, Esq., C.E.	5	10 0	35 T	48·98	211
D ,, (Cwmlliedi W.W.)	,, ,, ,,	5	3 0	240 ⅄	57·31	235
D Llangynog (Coomb)	W.S.GwynneMorrisEsq	8	1 0	270 T	49·02	191
D Llanddarog (Lletherllestry)	Rev. H. L. Puxley	4	1 0	250 T	50·69	205
D Carmarthen (The Friary)	L.M.Bowen-Jones, Esq.	5	1 5	62 ⅄	51·50	225
Llandilo (Golden Grove Gardens)	Mr. F. Surman	6	1 6	125 ⅄	53·96	183
D ,, (Cae-glas)	J. Lewes Thomas, Esq.	5	3 0	190 T	50·11	224
,, (Dynevor Castle)	Lord Dynevor	8	1 0	202 T	54·90	238
Llandovery	DouglasT.M.Jones, Esq.	5	1 0	249 T	51·58	225
D Llanwrda (Dolaucothy)	Gen. Sir J. Hills-Johnes	5	2 6	498 T	59·76	242
PEMBROKE.						
Pembroke (Stackpole Court)	The Earl Cawdor	6	1 6	60 ⅄	44·00	215
Tenby (High Street)	H. L. Truscott, Esq.	...	...	99	39·74	204
§St. Ann's Head	Meteorological Office	8	0 8	150	42·47	209
D Pembroke Dock (County School)	G. H. West, Esq.	5	0 0	85	46·66	220
D Saundersfoot (Hean Castle)	Herbert C. Lewis, Esq.	5	2 5	206 ⅄	43·31	184
Haverfordwest (Picton Castle)	Sir C. E. G. Philipps, Bt.	5	0 10	138	50·43	218
D§ ,, (High Street)	E. Picton Phillips, Esq.	5	1 0	95 T	50·40	214
D St. Davids	D. P. Williams, Esq.	5	1 0	216	44·44	206
D Treffgarne Hall	Col. R. O. Lloyd, R.E.	5	1 1	286 ⅄	54·69	229
D Fishguard (Dwrbach)	J. C. Yorke, Esq.	5	1 0	320	49·98	224
D Castle Malgwyn [Llechryd]	Mr. H. Baldwin	5	1 0	...	45·26	195
CARDIGAN.						
Nantneuadd [Abergwesyn] M	Mr. W. Roberts	5	1 0	1290	70·70	...
D ,, (Llanlear)	Miss Lewes	...	...	226	40·87	206
Tregaron (Maes-y-bettws) M	Dr. H. R. Mill	5	1 0	910	61·90	...
Strata Florida (Towy-fechan) M	,, ,, ,,	5	1 0	1330	79·40	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.		Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft.	in.	feet.	inches.	
CARDIGAN—(*con.*)							
D Strata Florida (Hafod)	T.J. Waddingham, Esq	5	1	0	580 T	60·02	216
§Aberystwyth (N. Parade)	A. Thomas, Esq.	8	2	6	20	37·21	212
D ,, (Gogerddan)	Mr. H. D. Prosser	5	1	1	83 B	47·64	219
Plynlimon M	Dr. H. R. Mill	5	1	0	1740	105·08	...
BRECON.							
D Nanthir Reservoir [Aberdare]	O. Williams, Esq., C.E.	5	1	0	860 ⅄	56·31	243
,, ,, [,,] M	,, ,, ,,	5	1	0	860 ⅄	56·61	...
Pont Neath Vaughan [Glyn Neath]	W. N. Hogben, Esq.	5	1	5	296 T	57·02	228
D†Ebbw Vale W.W. No.1	T. J. Thomas, Esq., C.E.	5	1	0	1413 ⅄	48·55	224
† ,, ,, ,, No.3	,, ,, ,,	5	1	0	1468 ⅄	56·55	237
† ,, ,, ,, No.2	,, ,, ,,	5	1	0	1471 ⅄	54·12	238
† ,, ,, ,, (Carno, S.)	,, ,, ,,	5	1	0	1236 ⅄	48·36	231
† ,, ,, ,, (,, E.)	,, ,, ,,	5	1	0	1391 ⅄	48·41	239
† ,, ,, ,, (,, W.)	,, ,, ,,	5	1	0	1412 ⅄	53·64	235
† ,, ,, ,, (,, N.)	,, ,, ,,	5	1	0	1533 ⅄	45·91	231
D Taff Fechan (Pentwyn Res.)	T. F. Harvey, Esq., C.E.	5	1	0	1120	59·79	236
,, ,, (,, ,,)...M	,, ,, ,,	5	1	0	1120	59·61	...
D†Torpantau Station	Mr. C. Mallet	5	1	0	1310	65·35	199
,, ,, ... *2nd gauge*	,, ,,	5	1	0	1310	66·50	...
Cardiff W W (Cwm Taff Fawr No 5)	C.H. Priestley, Esq. C.E.	5	1	0	1143 ⅄	60·86	...
,, ,, (Storey Arms, No. 4)	,, ,, ,,	5	1	0	1430	59·95	...
,, ,, (Cwm Taff Fawr, No. 1)	,, ,, ,,	5	1	0	2350 T	63·95	...
,, ,, (Cantreff Res., No. 2)	,, ,, ,,	5	1	0	1120	67·19	230
D ,, ,, (Beacons Res., No. 6)	,, ,, ,,	5	1	0	1340 ⅄	74·30	230
,, ,, (Nant Penig, No. 3)	,, ,, ,,	5	1	0	2000	75·75	...
D Taff Fechan (Neuadd Res.) No.1	T. F. Harvey, Esq., C.E.	5	1	0	1462	63·90	227
,, ,, (,, ,,) No.1M	,, ,, ,,	5	1	0	1462	62·88	...
D ,, ,, (,, ,,) No.4	,, ,, ,,	5	1	0	1487	76·92	227
,, ,, (,, ,,) No.2M	,, ,, ,,	5	1	0	1993	70·06	...
,, ,, (,, ,,) No.5M	,, ,, ,,	5	1	0	1515	79·20	...
,, ,, (,, ,,) No.7M	,, ,, ,,	5	1	0	2017	68·67	...
,, ,, (,, ,,) No.8M	,, ,, ,,	5	1	0	1723	76·19	...
,, ,, (,, ,,) No.3M	,, ,, ,,	5	1	0	1843	54·15	...
,, ,, (,, ,,) No.6M	,, ,, ,,	5	1	0	2099	73·84	...
Crickhowell (Glanusk Park)	Lord Glanusk	5	1	0	290	35·80	173
,, (Gwernvale)	E. Pirie Gordon, Esq.	5	1	0	393 ⅄	33·46	172
,, (Penmyarth)	S. H. Cowper Coles, Esq.	5	1	0	330	31·88	204
D Bwlch (Buckland Gardens)	Mr. A. J. Keen	5	1	0	486	39·14	179
†Talybont (Cui)	H. Jones Williams, Esq.	5	1	0	490 T	43·85	...
D†Brecon (New Inn)	Mr. W. Williams	5	1	0	810	48·85	180
†Cray Station M	Mr. J. Jones	5	1	0	930	54·40	...
†Crickhowell (Cwmdu) M	Mr. J. P. Edwards	5	1	0	430	31·50	...
† ,, (Ffordlas Farm) M	Mr. S. A. Gore	5	1	0	1170	43·70	...
†Cathedine Rectory	Rev. J. S. Jones	5	1	0	660	31·76	...
†Cantreff Rectory ..... *old g.*	the late Rev. J.J. Evans	5	1	0	650 T	40·16	...
,, ,, ...*new g.*	,, ,, ,,	5	1	0	630 T	37·57	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
BRECON—(*con.*)						
D†Llanfrynach (Tymawr)	Col. Garnons Williams.	5	1 0	450 T	38·32	186
†Crickhowell (Tal-y-maes) M	Dr. H. R. Mill	5	1 0	1250	44·10	...
†Trecastle (Blaenau-hydfer) M	,, ,, ,,	5	1 0	1070	62·80	...
†Tal-y-llyn M	,, ,, ,,	5	1 0	570	*33·90*	...
†Trecastle (Llywel Vicarage)	Rev. P. W. Green	5	1 0	740	51·23	172
D Brecon (Pont ar Fran)	J. Hotchkis, Esq.	5	1 0	550	41·53	241
D† ,, (Penoyre)	R. D. Cleasby, Esq.	5	1 0	672	42·63	248
D†Llanfihangel Nant-Bran (Cwmcynog)	Dr. H. R. Mill	5	1 0	790	48·10	217
†Lower Chapel (Nant-y-groes) M	,, ,, ,,	5	1 0	1080	43·40	...
†Merthyr-Cynog M	Mr. W. Davies	5	1 0	1050	50·00	...
§Hay (Gwernyfed Park)	Major T. Wood	5	1 6	375 ⅄	26·91	197
†Upper Chapel (Tymawr)	Mrs. Probert	5	1 0	945	46·55	...
Llanwrtyd Wells (Llandulas) M	Mr. W. Price	5	1 0	790	*58·30*	...
D†Llangammarch Wells	Dr. W. Black Jones	8	1 0	551 ⅄	50·26	241
D Builth (Tyn-y-berllan)	Dr. Baldock Fry	5	1 0	430 T	34·85	162
† ,, (Beulah) M	Mr. S. Allen	5	1 0	650	53·07	...
†Abergwesyn (Caewain) M	Rev. T. Jones	5	1 0	1010	70·18	...
† ,, (Llanerch-yrfa) M	Dr. H. R. Mill	5	1 0	1430	64·20	...
Pen-graig [Newbridge] M	,, ,, ,,	5	1 0	960	56·50	...
Llysdinam [,,]	Mrs. Lister Venables	5	1 3	640 T	45·80	223
RADNOR.						
Welfield [Builth]	E. A. Thomas, Esq.	5	2 10	740	37·58	...
New Radnor (Glascwm) M	Mr. G. Bufton	5	1 0	957	38·15	...
Builth Road (St. John's Vicarage)	Rev. J. L. Bryans	5	0 11	550 ⅄	*37·34*	224
D Llansaintfraid in Elvel (Hundred Ho.)	Mrs. Lerigo	5	1 0	810	31·25	186
D Bettws Disserth	Dr. H. R. Mill	5	1 0	850	31·08	184
§Disserth Rectory	Meteorological Office	5	1 0	712	39·15	217
Llandrindod Wells	Dr. Bowen Davies	5	7 0	711 ⅄	34·39	206
D New Radnor (Ednol)	Mr. W. Jones	5	1 0	950	38·65	216
Rhayader (Nant-y-car) M	E. Antony Lees, Esq.	5	1 0	1545	74·00	...
D ,, (Tyrmynydd)	,, ,, ,,	5	1 0	832 ⅄	63·49	230
,, (Bwlchyrhendre) M	,, ,, ,,	5	1 0	1585	68·20	...
D ,, (Claerwen)	,, ,, ,,	5	1 0	1250	62·90	200
,, Vicarage	Rev. L. H. Evans	5	1 0	720 T	50·09	164
,, (Pryddellau) M	E. Antony Lees, Esq.	5	1 0	1710	67·90	...
D ,, (Abergwyngy)	,, ,, ,,	5	1 0	1200	69·10	227
Llanbister (Llananno)	Dr. H. R. Mill	5	1 0	900	*41·20*	...
MONTGOMERY.						
D Llangurig (Dernol)	Dr. H. R. Mill	5	1 0	850	63·35	187
,, (Esgair Clochfan)	,, ,, ,,	5	1 2	1330	53·15	...
,, -on-the-Hill	,, ,, ,,	5	1 2	1330	54·40	...
,, (Ystrad-olwyn-fawr) M	,, ,, ,,	8	1 0	950	46·60	...
,, (,, ,,)	,, ,, ,,	5	1 0	950	47·00	...
Llandinam (Plas Dinam)	Mr. D. Bowen	5	4 0	504 T	35·29	206
D Newtown (Dolfor)	W. B. Pugh, Esq.	5	2 6	1027	28·86	186
D ,, (Gregynog)	Lord Joicey	5	1 0	660	41·11	233

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
MONTGOMERY—(*con.*)						
D Welshpool (Leighton Hall)	Mrs. Naylor	5	1 0	400 T	30·65	205
Garthbibio (Bwlch Tomlyd)...M	Dr. H. R. Mill	5	1 0	1370 T	*77·60*	...
D Lake Vyrnwy	E. D. Marten, Esq. C.E.	5	0 7	770 ⅄	55·39	219
,, ,, (Bryn Gwyn)	J. Parry, Esq., C.E. ...	3	...	1311 ⅄	55·95	...
D ,, ,, (Cynon Isaf)	,, ,, ,, ...	3	...	750 ⅄	56·23	201
,, ,, (Ty Uchaf)	,, ,, ,, ...	3	...	860 ⅄	56·31	...
,, ,, (Heol-y-ffridd) No.1	,, ,, ,, ...	3	...	912 ⅄	74·54	...
,, ,, (,, ,, ,,) No.2	,, ,, ,, ...	3	...	912 ⅄	87·63	...
,, ,, (Tynyfridd).....	,, ,, ,, ...	3	...	1010 ⅄	53·64	...
,, ,, (Lluestwen).....	,, ,, ,, ...	3	...	1667 ⅄	69·32	...
,, ,, (Llwynrhiw)	,, ,, ,, ...	3	...	1428 ⅄	80·95	...
,, ,, (Craig-y-Gribbin)..	,, ,, ,, ...	3	...	1100 ⅄	60·41	...
,, ,, (Eunant Bridge)...	,, ,, ,, ...	3	...	830 ⅄	75·78	...
,, ,, (Carreg Goch).....	,, ,, ,, ...	3	...	1750 ⅄	75·48	...
,, ,, (Fawnog).....	,, ,, ,, ...	3	...	1315 ⅄	56·57	...
FLINT.						
Cilcain.....	W. Simmons, Esq.....	5	1 0	790 ⅄	35·46	209
Hawarden	Great Central Rly. Co..	9	3 6	35	25·60	184
Flint (Soughton Hall, Northop).	John E. Bankes, Esq...	5	1 0	418	32·51	188
D ,, (Highfield, ,,).	Rev. Canon Atkinson...	5	1 0	400	25·93	160
,, (Plas Evan, ,,).	John Astbury, Esq. ...	5	5 3	350 T	28·65	...
†Bodfari (Nantlys)	P. P. Pennant, Esq. ...	5	1 0	173 ⅄	24·38	178
† ,, (Henblas)	Mrs. Scott Bankes	5	1 0	283 ⅄	25·63	193
St. Asaph (St. Beuno's College).	St. Beuno's College ...	9	0 8	490 T	25·58	...
Bagillt (Lead Works)	Walkers, Parker & Co.	5	1 0	20	26·27	...
D Rhyl (Sewage Works)	Mr. J. Jones	8	1 0	31 ⅄	24·11	201
D Prestatyn (Edlestone House) ...	T. J. Scott, Esq.	5	0 6	30	25·75	158
DENBIGH.						
D Llangadwaladr (Penygwely Res.)	G. W. Lacey, Esq., C.E.	5	1 0	1094	34·67	198
D Glynceiriog.....	F. E. Rooper, Esq.....	5	1 6	750 T	41·88	225
D Llangollen (Plas-yn-Vivod)	late Capt. Hon. J. C. Best	5	2 6	635	29·15	187
D†Cerrig-y-Druidion (Bwlch-y-beudy)	Col. C. S. Mainwaring..	5	1 0	1050 T	*45·46*	189
Wrexham (Pack Saddle Res.) ...	F. Storr, Esq.	5	0 9	370 ⅄	31·54	185
,, (Cae Llwyd Res.) ...	,, ,, ...	8	0 9	918 ⅄	38·52	201
,, (,, ,, ,,) ...	,, ,, ...	5	0 9	918 ⅄	37·15	201
D ,, (Broughton).....	J. Hall, Esq.	5	1 0	500 T	31·74	195
,, (Gwersyllt)	S. H. V. Simmons, Esq.	5	1 0	282 ⅄	25·97	...
D Gresford (Trewythen)	Miss Howell Evans ...	5	1 0	350	26·13	184
D Gyffylliog (Fachlwyd Hall)	Eliott S. Currey, Esq...	5	1 0	640 T	37·57	224
D Ruthin (Llanbedr Hall).....	Dr. G. A. Crace-Calvert	5	1 0	450 T	28·66	188
†Cerrig-y-Druidion (Hafod-llan-isaf)	Dr. H. R. Mill	5	1 2	1200	45·88	...
D†Pentre Voelas (Nant Heilyn) ...	,, ,, ,, ...	5	1 0	1225	55·22	233
D†Cerrig-y-Druidion (Hafod-yr-Onen)	,, ,, ,, ...	5	1 0	1175	43·81	199
†Nantglyn (Pant-y-maen) ..... M	W. Barker, Esq.	8	1 0	1320 T	48·67	...
†Llyn Bran ..... M	,, ,, ,, ...	8	1 0	1428 ⅄	53·79	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
DENBIGH—(*con.*)						
D†Llangerniew (Hafodunos).....	Col. Sandbach	5	1 0	512 T	44·66	173
Llanefydd (Rhyl W.W., S.)...M	L. G. Hall, Esq., C.E..	5	1 0	600	27·28	...
,, (,, ,, W.)...M	,, ,, ,,	5	1 0	580	22·82?	...
,, (,, ,, E.)...M	,, ,, ,,	5	1 0	570	26·14	...
D ,, (Plas Uchaf Res.) ...	,, ,, ,,	5	1 0	485	31·66	174
D ,, (Glascoed Reservoir)..	,, ,, ,,	5	1 0	360	28·93	178
D Llangyhanfal (Plas Draw)	Col.C.J.Bromhead,C.B.	5	1 0	419 ⅄	30·07	237
D Denbigh (Garn)	W.D.W. Griffith, Esq.	5	1 0	447 T	31·88	200
,, (Gallt-faenan).....	Col. C. S. Mainwaring.	5	1 0	400	30·53	...
Trefnant (Maes Elwy)	Major R. F. Birch.....	5	2 0	190 T	26·46	...
D Tal-y-cafn (Bodnant Hall)	Mr. J. Saunderson	8	1 6	120	39·45	182
D Colwyn Bay (Four Crosses)	W. Jones, Esq., C.E....	5	1 0	400 T	28·90	186
D ,, ,, (East Parade)	,, ,, ,, ...	5	1 3	65 ⅄	26·65	188
MERIONETH.						
D†Towyn (Gothic House)	Dr. E. Lewys-Lloyd ...	5	1 0	11 ⅄	40·57	227
D ,, (Peniarth)	W. R. M. Wynne, Esq.	9	1 0	25	53·46	211
D Dolgelly (Bryntirion)	C. G. Beale, Esq.	5	0 10	50	67·70	205
D†Bala (Eryl Aran)	Mrs. Burton	8	1 0	600 T	55·74	223
§Aberdovey	Meteorological Office ...	...	...	...	39·91	221
†Llanderfel (Palé Gardens)	Mr. E. J. Edwards ...	8	1 0	606 ⅄	43·65	200
D Tan-y-bwlch (The Gardens) ...	Mr. J. Roberts	5	1 0	50 ?	69·69	238
Blaenau Festiniog (Oakley Quarries)	Mr. Owen Jones.....	5	10 0	1100	108·59	197
Corwen (Rug Gardens).....	Mr. J. S. Higgins	5	1 4	500	35·28	170
CARNARVON.						
[Bardsey Island]	Hon. F. G. Wynn	5	1 0	50 ?	29·65	...
D†Criccieth (Talarvor)	Dr. J. Roberts	5	2 0	49 T	42·29	224
D† ,, (Cefn-Maen).....	Mr. F. Murchie	8	1 0	220 T	51·31	183
Pwllheli (Bodfean Hall)	Hon. F. G. Wynn	5	1 0	100 T	44·76	...
D†Portmadoc (Wern Gardens)	Mr. H. Worth.....	5	1 0	90 ?	74·59	181
†Beddgelert (Moel Hebog)..No. 19	J. R. Gethin Jones, Esq.	5	1 0	1500	118·50	...
Dolwyddelan(Tynddol) ... No. 1	,, ,, ,,	5	1 0	600	114·50	...
†Llandwrog (Glynllivon Park) ...	Hon. F. G. Wynn.....	5	1 0	100 T	44·75	...
† ,, (,, Nursery)	,, ,, ...	5	1 0	180 T	46·99	215
† ,, (,, Garden).	,, ,, ...	5	1 0	100 T	41·57	...
† ,, (,, Fort) ...	,, ,, ...	8	1 0	200 T	42·01	203
Snowdon (Llydaw).....No. 12	J. R. Gethin Jones, Esq.	5	1 0	1450	182·30	...
,, (Glaslyn) .....No. 13	,, ,, ,,	5	1 0	2500	205·30	...
Llanberis (Pen-y-pass)	Mr. J. Clee	5	1 0	1150 T	133·70	...
D†Bettws-y-Coed (Tyn-y-bryn) ...	Dr. Hugh W. Fox.....	8	2 6	153 ⅄	53·34	232
Lake Cowlyd	T.B.Farrington Esq.CE	8	1 3	1168 ⅄	85·50	...
Carnarvon (Belan Fort).....	Hon. F. G. Wynn.....	5	1 0	12 T	34·90	...
Eigiau, Upper.....No. 15	J. R. Gethin Jones, Esq.	5	1 0	2000	125·55	...
,, Lake.....No. 3	,, ,, ,,	5	1 0	1650	116·90	...
Lake Cowlyd (Upper Brwynog)No.16	,, ,, ,,	5	1 0	1100	84·25	...
,, ,, (Lower ,,)No.18	,, ,, ,,	5	1 0	1000	72·86	...
Frith Rhos No.17	,, ,, ,,	5	1 0	1100	78·47	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
CARNARVON—(*con.*)						
Llanbedr-y-Cennin (Plasdulyn).	E.P.Stephenson Esq. CE	8	1 0	509 ⅄	58·21	...
,, ,, ,, (Llyndulyn)	,, ,, ,,	8	1 6	1632 T	100·71	...
D Bethesda (St. Ann's Vicarage) ..	Rev. W. Morgan	5	1 6	500	55·40	213
§ ,, (Penrhyn Quarry)	Meteorological Office ...	8	1 0	528	60·33	209
D Bangor (Penrhyn Castle Gdns.)..	Mr. W. Speed.....	5	1 0	150 T	42·05	191
D Llanfairfechan	Mr. W. Timmins	5	1 0	144	35·81	180
Penmaenmawr (Mountain Res.)..	R. J. Hughes, Esq. ...	5	1 6	1200 T	46·33	...
D ,, (Council Offices).	,, ,, ,, ...	5	1 6	100 T	38·01	201
D Conway (Bodlondeb)	Mr. J. Tindall.....	5	1 3	40	35·06	181
Deganwy (Bod Gethin).....	J. R. Gethin Jones, Esq.	5	1 0	200	33·31	171
,, (Y Berlfa).....(R)	Willoughby Gardner Esq	8	1 0	30 ⅄	29·32	...
D§Llandudno	Mr. W. Little.....	5	1 0	72 T	31·57	194
ANGLESEY.						
Llanddwyn Island.....	Hon. F. G. Wynn	5	1 0	40 T	31·25	...
D†Llangadwaladr (Bodorgan)	Mr. W. Pilgrim.....	8	1 0	100 ?	42·20	200
Llangwllog (Trescawen)	J. H. Pritchard-Rayner, Esq.	6	1 6	239 T	46·02	217
†Holyhead (Sailors' Home)	Meteorological Office ...	8	1 0	48	36·38	212
Llantrisaint Rectory	Rev. Daniel Morgan ...	5	1 6	300	*36·52*	...
§LlanerchymeddLlwydiarthEsgob	T. Prichard, Esq.	5	1 0	175 L	39·21	232
D Lligwy	Lord Boston	5	1 0	170	37·65	185
ISLE OF MAN.						
Castletown (Langness)	Bd. of Northern Lights	8	1 0	30	34·55	...
,, (Derbyhaven)	A.W.Moore, Esq.C.V.O.	5	0 10	10	34·25	...
Santon Vicarage	,, ,, ,,	5	0 10	250	31·30	214
D Douglas (Woodville).....	H. Story, Esq.	8	1 0	160 L	41·34	213
,, (Cronkbourne)	A.W.Moore, Esq.C.V.O.	8	0 10	138 ⅄	43·07	208
,, (Clypse, Onchan)	,, ,, ,,	8	1 0	450	45·38	...
,, (Baldwin)	,, ,, ,,	8	1 0	120	53·65	...
Bishops Court	,, ,, ,,	5	0 10	80	30·65	...
Ramsey	,, ,, ,,	8	1 3	18	39·27	182
Point of Ayre.....	Bd. of Northern Lights	3	4 6	...	25·46	...
ISLES OF SCILLY.						
§St. Mary's	Meteorological Office ...	8	1 6	20 L	29·76	215
D Tresco Abbey	T.A.DorrienSmith, Esq.	11	3 0	40	32·99	212
JERSEY.						
D St. Helier (St. Louis Observatory)	Rev. M. Dechevrens ...	8	5 0	180	25·78	183
§St. Aubins	Meteorological Office ...	8	1 9	36	29·18	210
,, (Belle Vue)	Miss M. M. Sumner ...	5	0 10	250	28·83	...
GUERNSEY.						
D St. Martins (Les Blanches)	B. T. Rowswell, Esq....	5	1 0	310 T	31·79	190
D ,, ,, (Oberland).....	Allanson Bailey, Esq...	5	1 0	250 T	33·66	207
D St. Peter Port (St. Martin's Road)	A. Collenette, Esq. ...	5	1 0	295 L	33·43	189
D§ ,, ,, (Villa Carey)	Dr. F. Carey	8	1 6	180	30·77	182

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above SeaLevel	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
GUERNSEY—(*con.*)						
§St. Peter Port (Villa Carey)... M	Dr. F. Carey	5	1 1	180	31·93	...
D L'Ancresse	J. S. Hocart, Esq.	5	1 0	33 T	30·68	177
ALDERNEY.						
D Le Huret.....	B. T. Rowswell, Esq...	5	1 0	245	28·63	168
SARK.						
D Vallée du Creux	B. T. Rowswell, Esq....	5	1 0	320	26·07	161
HERM.						
D Harbour	B. T. Rowswell, Esq....	5	1 0	20	27·89	163

SCOTLAND.

DIVISION XII.—SOUTHERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
WIGTON.						
Mull of Galloway	Bd. of Northern Lights	...	...	...	27·14	167
D Whithorn	Dr. J. F. Smith	5	2 3	207 ⅄	43·47	205
D ,, (Cutroach)	J. G. Martin, Esq.	5	0 6	120 T	35·49	207
D Port William (Blairbuie)	Hugh McMaster, Esq.	5	2 6	150	*41·96*	183
D Garliestown (Galloway Ho.)	Mr. J. Day	5	4 6	20 ?	39·02	192
D Stoneykirk (Ardwell House)	Sir M. J. Stewart, Bart.	8	3 9	107 T	37·25	184
Port Patrick (Killantringan)	Bd. of Northern Lights	...	...	...	49·11	184
Loch Ryan Lighthouse	,, ,, ,,	...	...	...	34·85	163
Corsewall	,, ,, ,,	...	3 4	22 ?	38·38	159
KIRKCUDBRIGHT.						
Little Ross	Bd. of Northern Lights	...	3 3	130 ?	27·86	174
Auchencairn (Torr House)	W. Ovens, Esq.	5	0 8	50	49·15	...
§Gatehouse (Cally)	Scot. Meteorological Soc.	5	1 0	120	41·74	218
D Dalbeattie (Kirkennan)	Wellwood Maxwell, Esq.	5	0 9	30 T	46·70	223
D ,, (Little Richorn)	Mr. W. Kerr	5	0 9	35 ⅄	43·39	166
Kirkbean (Arbigland)	Scot. Meteorological Soc.	...	...	...	37·31	...
Creetown (Cassencary)	J A Henryson-Caird, Esq	5	0 8	50	44·71	214
D Kirkpatrick Durham (Glenlair)	Major W. Maxwell	5	0 6	250 T	52·84	198
D§Cargen [Dumfries]	R. F. Dudgeon, Esq.	5	0 4	80 ⅄	45·42	167
D Lincluden House [Dumfries]	Miss Young	5	1 0	60	39·83	212
Jardington [Dumfries]	J. Rutherford, Esq.	3	0 9	90 ?	37·85	242
D New Galloway (Craigencallie)	Miss Mary Blackley	5	1 0	700	73·27	182
Glenhead of Trool	J. McMillan, Esq.	5	0 11	320	68·85	...
Irongray (Drum Park)	the late J. E. Blair, Esq.	5	0 11	290	55·91	...
D Dalry (Glendarroch)	Miss M. Barbour	5	0 11	192 ⅄	53·09	237
D ,, (Clenerie)	Mr. R. McMillan	8	0 10	800	76·27	222
D ,, (The Old Garroch)	T. R. Bruce, Esq.	8	1 0	432 ⅄	63·22	256
D Carsphairn (Shiel)	Mr. S. Wilson	5	1 0	850 T	72·37	238
D ,, (Knockgray)	Miss Clark Kennedy	8	0 11	641 T	54·71	245

DIVISION XII.—SOUTHERN COUNTIES (*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
DUMFRIES.						
D§Dumfries (Ivy Bank)	Rev. W. Andson	5	0 10	70 T	36·24	216
D Lockerbie (Castle Milk)	Mr. J. Troup	5	0 9	199	44·04	224
Canonbie (Byreburnfoot)	Mr. D. Crabbe	3	0 9	...	46·00	...
D Lochmaben (Esthwaite)	W. J. Halliday, Esq.	5	1 0	166 ⅄	41·21	228
Langholm (Westwater)	J. M. Elliot, Esq.	3	1 0	450	54·93	211
D ,, (Drove Road)	Mrs. Jackson	5	0 9	270	56·05	186
Moniaive (Glencrosh)	Miss McMillan	5	1 2	350	53·01	227
,, (Maxwelton House)	Rev. Sir E. Laurie, Bt.	8	1 6	400 ⅄	48·79	...
Langholm (Ewes School)	Mr. J. C. Lyall	5	1 0	445 T	55·07	...
,, (,, Burnfoot)	J. C. Little, Esq.	3	1 0	541 ⅄	56·58	...
D§Durrisdeer (Drumlanrig Gardens)	Mr. D. Inglis	5	0 9	187	47·04	220
Beattock (Kinnelhead)	J. Bartholomew, Esq.	5	...	820	60·52	...
Moffat (Craigielands)	Mr. L. Fraser	5	1 0	360 T	51·61	...
D ,, (Auchen Castle)	Mr. W. McAdam	5	0 6	500	53·30	236
D ,, (Hope Lodge)	Miss Anstruther	5	1 0	450	47·35	240
,, (Ericstane)	Mrs. J. J. Welsh	5	1 6	580 T	*52·23*	...
ROXBURGH.						
§Hawick (Wolfelee)	Scot. Meteorological Soc.	5	0 10	587	34·43	206
D ,, (Branxholme)	J. G. Winning, Esq.	5	0 6	457 ⅄	33·26	212
D Jedburgh (Ancrum Bridge)	A. Johnston, Esq.	5	2 0	229	33·22	183
D Lilliesleaf (Riddell House)	late Lieut.-Gen. J. Sprot	5	0 8	550 T	34·68	218
D ,, (,, Gardens)	Mr. J. Williamson	5	0 8	500 T	33·40	171
D§St. Boswells (Elliston)	Mr. D. Melville	5	1 0	252	34·66	178
,, ,, (Monksford)	A. Mitchell, Esq.	5	0 11	320	30·80	...
D ,, ,, (Fens)	J. J. Fairbairn, Esq.	5	1 6	...	29·95	150
Kelso (Springwood Nurseries)	Messrs. Laing & Mather	5	1 0	200	31·79	214
D ,, (,, Park)	Mr. W. Chaplin	5	1 3	130 L	33·72	173
§ ,, (Broomlands)	Scot. Meteorological Soc.	8	1 2	205	33·40	197
D Melrose (Asylum) ..... *No. 1*	Mr. A. C. Pattman	5	0 6	480 T	38·79	228
D ,, (,,) ..... *No. 2*	,, ,, ,,	5	1 0	480 T	32·94	228
Smailholm (Sandyknowe)	A. Cross, Esq.	...	...	...	27·33	...
D Chapel-on-Leader [Earlston]	Mr. Peter Smith	5	0 9	500	33·90	183

DIVISION XIII.—SOUTH EASTERN COUNTIES.

SELKIRK.						
Meggat Head (Edinburgh W.W.) No. 1	W. A. Tait, Esq., C.E.	5	1 3	1496 ⅄	45·07	...
D ,, Water (Cramilt Lodge)	Mr. A. Sim	...	...	1000	55·01	259
D Selkirk (The Hangingshaw)	Miss Johnstone of Alva	6	0 6	670 T	38·58	177
Galashiels (Abbotsford Rd.)	Dr. J. W. Somerville	5	0 8	416 T	38·26	213
,, (Clovenfords)	W. R. Ovens, Esq.	6	1 6	500	37·97	...
,, (Stantling Craigs)	Mr. W. Ross	12	1 3	800	36·68	...
PEEBLES.						
Ravenscraig (Edinburgh W.W.) No. 3	W. A. Tait, Esq., C.E.	5	1 3	2258 ⅄	61·95	...
Gameshope Loch (,, ,,) No. 4	,, ,, ,,	5	1 3	1860 ⅄	61·28	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
PEEBLES—(*con.*)						
Loch Craig Head (Edinburgh W.W.) No.2	W. A. Tait, Esq., C.E.	5	1 3	2627 ⅄	55·85	...
Gameshope Farm (,, ,,) No.5a	,, ,, ,,	5	1 3	1538 ⅄	67·65	...
,, ,, (,, ,,) No. 5	,, ,, ,,	8	1 3	1538 ⅄	62·55	...
Talla Linns Foot (,, ,,) No.6a	,, ,, ,,	5	1 3	966 ⅄	60·48	...
,, ,, ,, (,, ,,) No. 6	,, ,, ,,	8	1 3	966 ⅄	58·95	...
Quarter Hill (,, ,,) No.7a	,, ,, ,,	5	1 3	1196 ⅄	49·27	...
,, ,, (,, ,,) No. 7	,, ,, ,,	8	1 3	1196 ⅄	47·75	...
Victoria Lodge (,, ,,)	,, ,, ,,	8	1 3	900 ⅄	48·16	...
D Stobo (Dawyck Gardens)	Mr. J. Crossan	5	1 1	600 T	39·04	200
§ ,, Castle	Scot. Meteorological Soc.	3	1 0	600	40·13	...
Peebles (Swinton Bank)	C. A. Ainslie, Esq. ...	5	0 5	600 B	36·60	...
D ,, (,, ,,) .....(R)	,, ,, ,, ...	8	4 0	600	37·96	198
Innerleithen (Leithen Lodge) ...	Mr. D. Clark	11	0 0	700 T	41·36	...
D West Linton (Rutherford House)	E. Cameron, Esq.	5	3 3	970 ⅄	48·84	221
Eddlestone (Portmore Res.)	W. Anderson, Esq.....	11	0 6	1000	39·27	206
§N. Esk Reservoir [Penicuick] ...	Mr. W. Tod	11	0 6	1150 ⅄	49·80	...
BERWICK.						
D Earlston (Cowdenknowes)	Mr. J. Robertson	5	0 10	360 ⅄	38·40	215
Coldstream (Lochton)	J. Aitchison, Esq.	5	1 0	150 B	31·92	...
D ,, (The Hirsel)	Mr. P. McAndrew	5	1 0	94 ⅄	32·07	171
D§Marchmont House	Mr. J. A. Wood.....	5	1 0	500 T	*39·67*	163
D Duns Castle	Mr. J. R. Redpath.....	5	1 0	500	36·74	193
,, (Manderston)	Mr. F. J. Marshall.....	8	1 6	356 ⅄	35·95	170
West Foulden	J. Hewat Craw, Esq....	5	1 0	250 T	26·33?	...
St. Abb's Head	Bd. of Northern Lights	8	4 3	200	27·61	...
HADDINGTON.						
Garvald (Donolly Reservoir) ...	W. Ross Young, Esq., CE	11	1 6	560 ⅄	38·74	...
D Drummore [Musselburgh]	Mr. J. Robson.....	5	1 0	75 T	29·83	177
D Whittingehame Gardens	Mr. J. Garrett	5	1 0	348 B	37·21	157
Haddington (District Asylum)...	*Reg. Gen. Returns* ...	5	0 9	240	35·67	158
Prestonkirk (Beil)	Scot. Meteorological Soc.	...	...	...	40·27	...
Dunbar (Barnsness)	Bd. of Northern Lights	...	...	...	33·69	164
§Prestonkirk (Smeaton).....	Scot. Meteorological Soc.	7	7 10	100	33·69	140
§Aberlady Manse.....	Rev. J. Hart	5	0 11	15	31·84	...
North Berwick Reservoir	W. Ross Young, Esq., CE	11	1 6	150 T	33·56	...
Bass Rock	Bd. of Northern Lights	...	...	...	28·34	...
MIDLOTHIAN.						
Moorfoot Hills (Bowbate)	W. Anderson, Esq.....	11	0 6	2042	53·72	...
,, ,, (Gladhouse Res.)	,, ,, ,, ...	11	0 6	900	41·49	233
,, ,, (Rosebery)	,, ,, ,, ...	11	0 6	750	39·16	210
Pentland Hills (Crosswood)	,, ,, ,, ...	11	0 6	950	46·90	...
Moorfoot Hills (Edgelaw).....	,, ,, ,, ...	11	0 6	654	41·67	209
Pentland Hills (Harperrig)	,, ,, ,, ...	11	0 6	900	43·58	...
,, ,, (Harehill)	,, ,, ,, ...	11	0 6	1470	46·97	...
,, ,, (Loganlea)	,, ,, ,, ...	11	0 6	850	45·58	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
MIDLOTHIAN—(*con.*)						
Pentland Hills (Swanston)	W. Anderson, Esq.	11	0 6	550	37·37	...
,, ,, (Glencorse Res.)	,, ,, ,,	11	0 6	787	45·89	223
,, ,, (Harlaw)	,, ,, ,,	11	0 6	800	40·79	...
,, ,, (Clubbiedean Res.)	,, ,, ,,	11	0 6	750	38·29	...
,, ,, (Harbour Hill)	,, ,, ,,	11	0 6	1112	44·90	...
Liberton (Alnwick Hill)	,, ,, ,,	11	0 6	400	33·69	169
Dalkeith Gardens	*Reg. Gen. Returns*	...	...	190	31·49	151
D† Edinburgh (R. Obs., Blackford Hill)	T. Heath, Esq.	8	1 0	442 ⅄	31·22	176
§ Corstorphine House	*Reg. Gen. Returns*	5	1 0	165	32·90	223
D Musselburgh (Levenhall)	The Misses Husband	5	1 0	15 ⅄	29·84	181
Edinburgh (George Square)	Surg.-Maj. W. G. Black	6	3 0	261 T	28·28	...
D† ,, (University)	Prof. T. Hudson Beare.	5	1 0	200	32·70	192
† ,, (,,) M	,, ,, ,,	5	1 0	200	31·79	...
D ,, (City Observatory)	W. Peck, Esq.	8	1 0	349	28·81	172
† ,, (Charlotte Square)	Messrs. Leslie & Reid, C.E.	11	1 6	190 T	31·98	...
† ,, (,, ,,)	,, ,, ,,	12	63 0	300	24·97	...
§ ,, (Streatham House)	Scot. Meteorological Soc.	...	...	...	36·30	...
Cramond Bridge (Craigiehall)	A. Cross, Esq.	...	...	...	35·21	...
§ Leith	Meteorological Office	8	1 8	37	30·19	201
§ ,, (Navigation School)	Scot. Meteorological Soc.	5	0 5	76	32·36	202
D Davidson's Mains (Broomfield)	Mr. C. Comfort	5	0 10	42 L	30·44	163
LINLITHGOW.						
D Whitburn (Polkemmet)	Lady Baillie	5	2 0	600 T	51·88	254
D Bathgate (Boghead House)	J. Robertson Durham Esq	5	2 0	500	48·64	234
Linlithgow (Nether Parkley)	Miss Henderson	5	0 3	300 T	37·20	...
D ,, Academy	J. Beveridge, Esq.	5	1 0	170 T	36·57	196
Bo'ness (Neidpath Cottage)	Mr. J. Grant	5	3 0	200 T	29·97	...
,, (Grange)	H. M. Cadell, Esq.	5	0 4	14	31·44	180

DIVISION XIV.—SOUTH WESTERN COUNTIES.

LANARK.						
§ Leadhills	Scot. Meteorological Soc.	5	1 1	1300	56·44	240
Lamington (Cowgill Reservoir)	J. Chisholm, Esq., C.E.	5	1 0	970 T	47·89	...
§ ,,	Scot. Meteorological Soc.	...	...	...	37·34	...
D Biggar (Cambus Wallace)	F. W. M. Watson, Esq.	6	0 6	748 ⅄	33·64	175
,, (Shieldhill)	Miss Dunlop	...	...	...	28·27	...
Lanark (Rhyber Lodge)	R. Swann, Esq.	6	3 0	650	37·00	...
D Cleghorn	W. Eliott Lockhart, Esq.	3	0 3	720 ⅄	44·63	218
D Carluke (Mauldslie Castle)	Mr. D. Bryson	5	1 0	140	38·47	155
Hamilton Water Works	Mr. W. H. Purdie	7	1 0	436 ⅄	42·10	...
D ,, (Laighstone Hall)	Rev. T. M. B. Paterson	5	1 9	260 ⅄	37·80	189
D Motherwell (Dalzell Gardens)	Mr. A. Angus	6	5 6	89	29·14	162
§ Bothwell	Scot. Meteorological Soc.	5	0 9	150 ⅄	34·45	187
Glasgow (Tollcross Park)	J. Whitton, Esq.	5	0 6	85	41·49	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
LANARK—(*con.*)						
Glasgow Green	J. Whitton, Esq.	5	0 6	35	40·59	...
,, (Bellahouston Park)	,, ,, ,,	5	0 6	160	35·91	...
† ,, (Botanic Gardens)	,, ,, ,,	5	0 6	110	37·57	...
,, (Alexandra Park)	,, ,, ,,	5	0 6	141	40·56	...
,, (George Square)	,, ,, ,,	8	6 0	40	39·09	...
,, (Kelvingrove Park)	,, ,, ,,	5	0 6	48	39·20	...
,, (Ruchill Park)	,, ,, ,,	5	0 6	220	41·57	...
D§ ,, (Belvedere Hospital)	Dr. J. Brownlee	5	1 1	60 T	40·60	220
§ ,, Observatory	Prof. L. Becker	11	2 0	182	40·00	217
,, (Springburn Park)	J. Whitton, Esq.	5	0 6	361	36·32	...
D Airdrie (Hillend Reservoir)	Mr. W. A. Ritchie	6	4 6	620 ⅄	43·62	209
§Roughrig Res. [Slamannan]	J. Chisholm, Esq., C.E.	5	1 0	661	40·18	...
AYR.						
Ballantrae (Glendrishaig)	P. Murdoch, Esq.	10	4 0	42	36·29	201
Barrhill (Dochroyle) M	Mr. J. Scott	6	0 6	548 T	50·21	...
,, Kildonan	W. Weir, Esq.	6	1 6	250	35·80	...
D Colmonell (Clachanton)	the late R. Aitken, Esq.	6	0 6	140 T	44·04	197
D§Girvan (Pinmore)	Hugh Hamilton, Esq.	5	1 0	207 T	54·14	259
D Barr Manse	Rev. G. Dods	5	1 0	330	52·32	218
Girvan (Glendoune Gardens)	Mr. J. Simons	5	1 0	100 T	43·04	194
Ailsa Craig	Bd. of Northern Lights	3	5 0	..	72·89?	181
Loch Finlas	J. Young, Esq., C.E.	5	1 0	849	56·74	...
D§Dalrymple (Bow Hill)	A. Gillespie, Esq.	...	...	978	55·44	229
D Maybole (Culzean Gardens)	Mr. D. Murray	9	3 0	200	40·30	187
,, (Knockdon Farm)	A. Cross, Esq.	4	1 3	344	38·74	...
,, (,, Glenhead)	,, ,,	8	1 2	500	41·29	...
Ayr (Doonside)	W. H. Dunlop, Esq.	5	1 0	90	42·82	...
D ,, (Doonholm)	J. Kennedy, Esq.	5	1 0	90	41·12	199
D Mauchline (Catrine)	H. W. Pollock, Esq.	6	1 0	301 T	36·89	170
Muirkirk (Glenbuck)	Mr. W. F. Hamilton	6	1 0	900	48·80	...
Kilmarnock	*Reg. Gen. Returns*	...	...	74	43·84	206
,, (Agricultural College)	Prof. R. A. Berry	...	...	...	39·01	209
,, (North Craig)	R. Blackwood, Esq.	12	1 0	319 ⅄	44·85	...
D Dalry (Blair)	Mr. W. Mair	5	1 3	155 T	51·13	203
D ,, (Camphill Reservoir)	Gilbert Christie, Esq. CE	12	1 6	640 ⅄	63·20	203
,, (,,)	James Lee, Esq., C.E.	12	1 6	611	63·00	...
Shaws Water Works (Kelly Dam)	D. Macalister, Esq., C.E.	6	1 0	640	70·10	...
,, ,, (Knockencorsan)	,, ,, ,,	6	1 0	1040	62·20	...
RENFREW.						
Lochwinnoch (Garthland)	H. Macdowall, Esq.	5	0 11	150	68·46	181
,, (Castlesemple)	Mr. C. Jamieson	...	26 0	240	50·64	207
Gorbals Dist. W.W. (Ryat Lynn)	J.R. Sutherland, Esq. CE	8	0 5	310	52·25	...
,, ,, ,, (Waulk Glen)	,, ,, ,,	12	0 5	280	50·75	...
,, ,, ,, (Middleton)	,, ,, ,,	12	0 5	550	59·40	...
,, ,, ,, (Nether Cairn)	,, ,, ,,	12	0 5	700	62·40	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
RENFREW—(*con.*)						
Paisley W.W. (Stanely)	James Lee, Esq., C.E..	12	1 0	190	44·20	...
,, ,, (BackThornleymuir)	,, ,, ,,	12	1 0	646	47·47	...
,, ,, (Muirhead).....	,, ,, ,,	12	1 0	482 ⅄	52·87	...
,, ,, (Springside)	,, ,, ,,	12	1 0	532 ⅄	56·34	...
D Glasgow (Queen's Park)	J. Whitton, Esq.	8	0 9	144 ⅄	40·21	214
,, (Maxwell Park)	,, ,, ,, ...	5	0 6	69	35·70	...
Paisley (Crookston)	Mrs. Hotchkis	5	0 5	50 ?	39·75	...
D† ,, (The Coats Observatory)	John Woodrow, Esq....	10	1 8	107	48·99	216
§Kilmalcolm (Waterworks)	Scot. Meteorological Soc.	...	...	500 ?	78·23	...
Shaws W.W. (Duchall Moor) ...	D. Macalister, Esq., C.E.	6	1 0	1150	69·70	...
,, ,, (Creuch Hill)	,, ,, ,, ...	6	1 0	1100	60·10	...
,, ,, (Largs Road)	,, ,, ,, ...	5	1 0	910	48·08	...
,, ,, (Green Water) ...	,, ,, ,, ...	6	1 0	788 ⅄	69·40	...
§Kilmalcolm (St. Oswald's) ... (R)	D. S. Carson, Esq. ...	...	1 0	400	57·86	...
§Dougliehill Res. (Port Glasgow W.W.)	James Murray, Esq. ...	...	...	540	53·35	...
§Auchendores Res. (,, ,, ,,)	,, ,, ,, ...	...	...	320	52·29	...
Shaws W.W. (Gryfe Reservoir).	D. Macalister, Esq., C.E.	6	1 0	640 ⅄	63·40	...
,, ,, (Mansfield)	,, ,, ,, ...	5	1 0	573 ⅄	60·64	241
,, ,, (Compensation Res.)	,, ,, ,, ...	5	1 0	600	69·88	260
,, ,, (Loch Thom).....	,, ,, ,, ...	5	1 0	643 ⅄	67·82	241
,, ,, (Shielhill)	,, ,, ,, ...	6	1 0	962 ⅄	68·90	...
,, ,, (Darndaff Moor)..	,, ,, ,, ...	6	1 0	850	65·90	...
,, ,, (Spango Burn) ...	,, ,, ,, ...	6	0 9	757 ⅄	69·00	...
,, ,, (Hole Glen)	,, ,, ,, ...	5	1 0	603	62·68	236
,, ,, (New Yetts Dam)	,, ,, ,, ...	5	1 0	800	65·43	235
D§Greenock (Prospect Hill)	,, ,, ,, ...	5	1 0	233	63·15	248
Bishopton (Ingliston)	D. Cross, Esq.....	5	1 0	195	46·60	...
Langbank (East Bank Gardens).	A. Cross, Esq.....	5	2 6	...	52·01	...

DIVISION XV.—WEST MIDLAND COUNTIES.

DUMBARTON.						
D§Dumbarton (Leven Shipyard) ...	Messrs W. Denny & Bros.	5	1 0	9 T	46·66	231
D Duntocher (Cochno Filters)	G. D. Mackie, Esq., C.E.	5	1 0	400 ⅄	49·20	221
,, (Greenside Res.).....	,, ,, ,,	5	1 0	...	52·13	...
,, (Loch Cochno).....	,, ,, ,,	5	1 0	...	56·32	...
,, (Jaw Reservoir).....	,, ,, ,,	5	1 0	...	59·14	...
Cardross (Darleith)	Claud A. Allan, Esq....	5	1 0	350 B	51·62	250
D Helensburgh (Fernigair House)..	J. R. Wilson, Esq. ...	6	0 6	18	45·22	219
,, (Water Works) ...	,, ,, ,,	6	0 6	300	44·55	223
Roseneath (Achnashie)	Scot. Meteorological Soc.	...	...	...	61·30	...
Garelochhead (Aikenshaw) .....M	Mr. W. S. Turnbull ...	...	...	30	66·20	...
Arrochar (The Manse)	Rev. Dugald Macfarlane	5	1 0	14	56·68	...
D ,, House .....(R)	Mr. J. Thomson	6	1 3	50	88·25	208

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
STIRLING.						
Muiravonside Ho. [Linlithgow]	Mr. C. Leeder	5	6 0	175	39·00	...
Strathblane (Mugdock Reservoir)	J.R.Sutherland, Esq.CE	8	0 6	320	40·05	...
,, (Craigend Castle)	Capt. J. Kerr	5	1 2	533 T	58·98	203
D ,, (The Manse)	Rev. W. B. Moyes	5	0 6	235 T	57·21	223
,, (Craigbarnet)	C. Stirling, Esq.	...	...	315	54·50	...
Kilsyth (Currymire)	the late Mr. G.J.Ramsay	5	1 2	200	51·71	182
D Falkirk (Inglewood, Laurieston)	W. Ballantine, Esq.	5	1 3	133 T	39·52	182
D ,, (Westbank)	A. Nimmo, Esq.	5	0 9	75	40·42	209
D ,, (Burgh Buildings)	David Ronald, Esq., C.E.	5	1 0	107 ⅄	36·32	175
,, (Ardenlea)	J. Aitken, Esq., F.R.S.	5	1 0	105 T	41·02	...
,, (Kerse)	C. Brown, Esq.	8	1 0	18 ⅄	36·00	...
,, (,,)	,, ,,	5	0 10	18 ⅄	35·58	...
D ,, (Cauldhame)	David Ronald, Esq., C.E.	5	1 0	73 ⅄	39·92	221
Little Denny Reservoir	C. Massie, Esq.	8	1 0	326	47·91	...
,, ,, Filters	,, ,,	8	1 0	268 ⅄	45·40	...
Earlsburn Reservoir	,, ,,	8	1 0	1202 ⅄	58·72	...
Kilsyth (Faughlin Res.)	,, ,,	8	1 0	707 ⅄	53·91	...
D Killearn (Achnagowen)	Miss Guthrie-Smith	5	0 10	332 ⅄	52·29	238
Stirling (Touch Reservoir)	C. Stirling, Esq.	...	...	755	42·64	...
,, (Polmaise Gardens)	Mr. W. W. Ritchie	6	1 0	12	39·19	...
,, (Victoria Place)	R. Kidston, Esq., F.R.S.	5	2 10	100	37·73	...
D§ Buchlyvie (The Manse)	Rev. J. A. Macdonald	5	1 3	118 T	53·34	252
Gargunnock House	C. Stirling, Esq.	5	5 8	85 T	38·07	...
D Kippen (Arngomery)	Mr. P. McCowan	5	4 2	150	48·12	177
,, (Garden House)	C. Stirling, Esq	...	...	...	46·57	...
Bridge of Allan	Laurence Pullar, Esq.	5	1 0	110	34·54	217
Ben Lomond	J.R.Sutherland, Esq.CE	...	...	1800	111·70	...
Loch Arklet (Corriehichon)	,, ,, ,,	...	...	870	89·10	...
,, ,, (Corriearklet)	,, ,, ,,	...	...	950	93·90	...
Glengyle	,, ,, ,,	...	...	380	81·70	...
BUTE.						
Arran (Pladda)	Bd. of Northern Lights	...	...	...	65·57	211
,, (Holy Island	,, ,, ,,	3	0 3	...	54·50	185
D Rothesay (Crichton Road)	H. Lauder, Esq.	5	4 0	97	57·91	239
,, (Glenburn)	Scot. Meteorological Soc.	...	...	76	55·67	231
ARGYLL—(MAINLAND.)						
Kintyre, Mull of	Bd. of Northern Lights	...	...	279 ?	48·40	205
D ,, (Campbeltown, Witchburn)	Mr. A. Giffen	5	1 2	75	47·79	246
§ ,, (,, The Rectory)	Scot. Meteorological Soc.	...	...	...	52·98	...
,, (,, Devaar)	Bd. of Northern Lights	...	3 4	75 ?	42·08	211
,, (Killean Manse)	Rev. D. J. Macdonald	5	1 0	30 B	43·35	219
,, (Largie Castle)	J.R.M.Macdonald, Esq.	5	1 0	160 T	44·64	...
,, (Skipness Castle)	Mr. P. McLean	6	1 6	27 L	56·67	...
D ,, (Carse, Tarbert)	J. Birkmyre, Esq., jun.	6	1 6	20	42·25	228

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
ARGYLL—(MAINLAND)—*con.*						
D Tighnabruaich (Craigandaraich)	A. S. Cousland, Esq.	6	4 0	30 B	61·42	225
D ,, (,,)	,, ,, ,,	12	5 0	50 B	67·94	225
D Dunoon (Reservoir)	J. Andrew, Esq., C.E.	4	3 6	245 ⅄	87·56	241
D ,, (Redhurst)	Dr. J. Banks	5	1 6	60	80·94	223
,, (Grammar School)	J. MacGregor, Esq.	5	1 5	56 ⅄	72·89	...
D Lock Eck (Benmore)	H. J. Younger, Esq.	5	1 3	40	89·43	192
D Ardrishaig	L. J. Groves, Esq., C.E.	5	0 4	44	76·03	235
D§Lochgilphead (Poltalloch)	Mr. D. S. Melville	5	1 2	135	60·18	232
D Loch Fyne (Furnace)	Mr. W. Nicol	5	3 0	15 L	67·94	242
D†Lochgoilhead (Nuthill)	G. Murray Knox, Esq.	5	1 0	15	79·59	228
D†Inveraray (Newtown)	Mrs. Little	5	1 0	17	74·05	273
D Oban (Kilmelfort, Arduaine)	J. A. Campbell, Esq.	5	0 3	23 L	61·10	235
§Appin (Airds)	Scot. Meteorological Soc.	5	0 11	15	47·67?	...
D Morvern (Kingairloch)	G. Herbert Strutt, Esq.	5	1 0	40 ?	100·36	210
D ,, (Drimnin)	Mrs. Gordon	5	1 0	225	64·90	267
D Ballachulish House	F.C.Beresford Drummond Esq	5	1 0	56 ⅄	88·02	272
,, (Glencoe)	J. D. Sutherland, Esq.	...	6 0	100	85·85	...
D Strontian (Laudale)	J. A. Fletcher, Esq.	8	1 0	15 ⅄	80·23	258
Loch Sunart (Glenborrodale)	C. D. Rudd, Esq.	5	0 2	60 L	71·64	261
Glenleven (Blackwater) ...No. 4	Loch Leven Power Co.	...	...	...	85·66	...
,, (Dam) ...No. 2	,, ,, ,, ,,	...	...	...	*80·99*	...
,, (Kinlochleven)..No. 1	,, ,, ,, ,,	...	...	...	83·88	...
Ardnamurchan	Bd. of Northern Lights	8	4 3	40	45·04	208
Ardgour	A. J. N. Maclean	3	0 10	72	61·25	...
Loch Eil (Corran)	Bd. of Northern Lights	3	1 6	4	81·80	225
ARGYLL—(INSULAR.)						
D Islay (Ardbeg)	C. E. Hay, Esq.	5	7 0	46 T	51·13	253
,, (Rhinns)	Bd. of Northern Lights	7	3 6	40	35·14?	184
,, (Lochindaul)	,, ,, ,,	3	0 6	20	42·95	...
,, (McArthurshead)	,, ,, ,,	3	0 4	140	66·43	212
D ,, (Eallabus)	J. Laughton, Esq.	5	1 0	68 T	50·12	235
D ,, (Gruinart)	Miss Brown	5	1 0	10	46·08	206
,, (Rhuvaal)	Bd. of Northern Lights	3	1 3	30	48·50	...
Jura (Fladda)	,, ,, ,,	3	1 0	8	60·94	193
Lismore (Mousedale)	,, ,, ,,	7	3 10	18	40·14?	220
§Eriska Island	Scot. Meteorological Soc.	...	...	...	62·01	...
Mull (Bunessan)	Duncan Cameron, Esq.	5	1 4	50	85·99	...
§ ,, (Lochbuie)	Scot. Meteorological Soc.	8	1 2	20	83·76	235
D ,, (Kinlochspelvie)	Mr. R. McMorran	8	1 0	45	97·01	249
,, (Knock)	Duncan Cameron, Esq.	5	1 4	20	114·96?	...
§ ,, (Gruline)	Meteorological Office	8	1 0	101 ?	72·67	254
D ,, (Quinish)	J. N. Forsyth, Esq.	5	1 3	35 B	54·48	248
,, (Glengorm)	F. Morgan, Esq.	5	0 11	300	51·20	...
,, Sound of	Bd. of Northern Lights	3	1 4	14	64·38	220

DIVISION XVI.—EAST MIDLAND COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height above Ground.	Height above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
CLACKMANNAN.						
Alloa (Mar Street)	J. T. Reid, Esq.	5	0 6	70	34·32	...
D Alva House	Miss Johnstone of Alva	5	1 6	180	42·77	218
D Dollar (Dollarbeg)	James Bleloch, Esq.	5	0 9	265 T	40·75	206
D§ ,, (Academy)	Mr. A. Blackwood	9	1 0	178	45·03	164
KINROSS.						
Blairingone [Dollar]	Rev. J. F. Cameron	5	1 6	300 T	43·61	205
D Loch Leven Sluice	Mr. W. Hay	8	0 9	360 L	38·11	182
D Kinross (Gellybank)	G. Henderson, Esq.	5	0 6	440 ⅄	34·10	209
,, House (R)	Mr. James Kirk	8	3 8	377 T	38·92	...
FIFE.						
Inchkeith	Bd. of Northern Lights	...	...	...	25·50	...
D Culross (West Grange)	J. J. Dalgleish, Esq.	5	0 2	116 ⅄	32·46	191
Dunfermline (Keavil)	L. Dalgleish, Esq.	5	0 2	150	31·11	...
,,	*Scotsman*	...	...	365	36·10	...
Carnock (Luscar House) ...No. 1	A. Mitchell, Esq.	5	0 10	430 T	36·36	...
,, (,, ,,) ...No. 2	,, ,,	5	0 10.	430 T	35·69	...
,, (Craigluscar)	A. W. Bell, Esq., C.E.	12	0 4	280 ⅄	38·50	...
Beath (Outh)	L. Dalgleish, Esq.	5	0 2	890	38·11	...
§Leslie (Lothrie Reservoir)	Scot. Meteorological Soc.	5	0 5	702	35·25	...
D Colinsburgh Manse	Rev. Robert Dick	5	2 0	170 T	32·10	168
,, (Balcarres)	Mr. E. Tate	5	1 0	300 T	36·31	200
,, (Gilston)	Scot. Meteorological Soc.	...	...	...	36·26	...
D Carnbee (Ovenstone W.W.)	A. P. Watson, Esq.	5	1 0	168 ⅄	30·75	161
§Cupar (Clatto Reservoir)	Scot. Meteorological Soc.	...	...	...	30·78	...
D ,, (Fife & Kinross Asylum)	W. Swinton, Esq.	5	1 0	210	31·17	161
Boarhills (Kenly Green)	G. Cheetham, Esq.	8	0 10	75 T	27·55	...
D St. Andrews (Waterworks)	W. Watson, Esq.	5	1 0	217 ⅄	27·98	172
D ,, ,, (South Street)	Miss Macadam	5	1 0	55 B	30·40	192
Kilmany (Mountquhanie House)	Mr. David Dinwoodie	3	1 0	350 B	25·81	...
Tayport (Low Light)	J. Thompson, Jr. Esq. CE	5	1 0	27	26·41	166
PERTH.						
Aberfoyle	J. R. Sutherland, Esq. CE	8	0 6	60	54·00	...
Ochtertyre [Stirling]	Capt. C. M. Dundas, R.N.	5	1 0	18	38·92	...
Dunblane (Kippenross)	A. H. Anderson, Esq.	3	1 3	240	35·55	...
D Doune (Gartincaber)	G. Burn Murdoch, Esq.	5	1 0	200 T	41·88	221
D ,,	Rev. G. S. Mackay	5	1 0	125 ⅄	37·67	207
Dunblane (Kippendavie Lodge)	A. H. Anderson, Esq.	8	2 9	300	45·89	...
Sheriffmuir (Lynns Farm)	,, ,, ,,	5	1 0	550	41·07	...
Glendevon (Glensherup)	A. W. Bell, Esq., C.E.	12	0 4	745 T	57·24	...
Loch Dhu	J. R. Sutherland, Esq. CE	8	0 6	325	77·10	...
Ledard	,, ,, ,,	...	...	1500	51·00?	...
Loch Drunkie	,, ,, ,,	8	0 6	420	62·70	...
Loch Vennachar	,, ,, ,,	8	0 6	275	49·30	...
Bridge of Turk	,, ,, ,,	8	0 6	275	58·50	...
Doune (Cauldhame)	J. Forbes, Esq.	5	1 0	830	51·06	215

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
PERTH—(*con.*)						
Loch Katrine (Tunnel Hill Top)	J.R.Sutherland,Esq.CE	8	0 6	830	83·20	...
Between Glen Finlas & Ben Ledi.	,, ,, ,,	8	0 6	1800	33·45?	...
Callander (Leny House)	J. H. Buchanan, Esq...	5	0 4	340 T	59·90	...
Braco (Nether Cambushinnie)	J. W. Stirling, Esq. ...	5	0 10	380 T	42·77	...
Glenfarg (U.F. Manse)	Rev. J. W. Jack	5	1 0	480	36·90	...
Abernethy (Ayton House)	R.W.Seton-WatsonEsq	5	0 11	120	31·29	...
Bridge of Earn (Ballendrick)	R. Richardson, Esq. ...	3	4 0	50	26·55	...
D§Balquhidder (Stronvar)	J. Carnegie, Esq.	5	1 0	422 T	70·49	239
D Lochearnhead (Ardvorlich)	Col. J. Stewart, C.I.E..	5	1 0	325 T	64·45	225
§Comrie (Clathick)	Scot.MeteorologicalSoc.	...	...	300	44·26	221
D Perth (Craigie Road)	Sydney Wilson, Esq....	5	1 0	56 T	29·92	175
D† ,, (Pitcullen House)	Henry Coates, Esq. ...	5	1 0	133	29·14	149
Killin (Auchmore House)	Mr. W. J. Burrell	5	1 0	400 T	63·07	...
D Coupar Angus	Mr. J. Robertson	5	1 3	183 T	27·67	197
Dunkeld (Inverbraan)	J. Burn Murdoch, Esq.	...	...	...	39·28	...
D Aberfeldy (Dunros)	H. W. Johnston, Esq..	5	1 0	400	37·54	205
D Blairgowrie (Ballintuim House)	Miss M. A. McDonald..	5	...	600	36·91	206
D Pitlochry (Donavourd)	thelateW.Maxwell,Esq	5	0 7	400	36·35	162
D Blair Atholl	Mr. A. Cameron	5	1 0	420	37·74	201
FORFAR.						
Buddonness (Low Light)	J.Thompson,Jr.,Esq.CE	5	1 0	17	24·22	...
§Dundee (Harbour)	,, ,, ,, ...	5	0 10	14	23·62	172
D Broughty Ferry (TaysideCottage)	Mr. A. Robb	5	5 6	25	25·05	152
§Dundee (Eastern Necropolis)	Mr. J. Carnochan	3	0 4	199 T	26·65	...
D§ ,, (,, ,,) ...	,, ,, ,,	5	0 4	199 T	27·18	179
,, (Dens Works)	Messrs. Baxter Bros. ...	5	...	119 T	26·65	184
D ,, (Camperdown Works)	Messrs. Cox Bros.	5	3 8	290	24·16	145
D§ ,, (Balruddery)	Mr. G. Davie	5	1 0	266 T	28·68	175
D Craigton	G. Baxter, Esq., C.E...	8	1 0	410	31·58	163
,, M	,, ,, ...	11	3 0	481	30·57	...
,, (Hillhead)	,, ,, ...	11	3 0	570	30·99	...
Crombie Reservoir M	,, ,, ...	11	3 0	522 T	35·40	...
D Arbroath (Waterworks)	P. C. Smith, Esq., C.E.	5	1 0	58 ⅄	25·84	153
,, (,,) M	,, ,, ,,	5	1 0	58 ⅄	26·19	...
D§ ,, (Dishland Hill)	Mr. J. Campbell	5	1 0	69 T	*28·21*	193
Glamis Castle	Mr. T. Wilson	5	1 6	250	*31·92*	143
D Forfar (Lilyfield)	A. L. Fenton, Esq. ...	5	0 5	225 T	30·50	175
D ,, (Little Causeway)	J. Watson Craik, Esq..	8	4 6	218 T	31·75	180
Rescobie (Pitscandly)	W. T. Farquhar, Esq..	5	5 10	280	*25·06*	...
Kirriemuir (Eskhill)	Admiral E. Drummond	5	0 9	300	33·01	201
,, (Lintrathen) M	G. Baxter, Esq., C.E..	8	1 0	700	29·90	...
D ,, (,,)	,, ,, ,, ...	8	1 0	700	32·18	199
,, (,,Balnakeilly)M	,, ,, ,, ...	8	1 0	700	28·20	...
,, (,, CreichHill)M	,, ,, ,, ...	8	1 0	1500	27·70?	...
,, (Longdrum)	,, ,, ,, ...	8	1 0	1142	*37·90*	...
,, (Glen Dye)	,, ,, ,, ...	8	1 0	1409	*36·70*	...
,, (Barney)	,, ,, ,, ...	8	1 0	1145	38·80	...

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
FORFAR—(*con.*)						
Kirriemuir (Glen Damff)	G. Baxter, Esq., C.E.	8	1 0	1480	40·50	...
D§ ,, (Lednathie)	Mr. W. Morrison	5	1 0	705	37·80	229
Montroseness	Bd. of Northern Lights	3	1 0	10	27·22	148
D Montrose (Melville Gardens)	S. L. Christie, Esq.	5	9 0	23 T	27·64	166
§ ,, (Sunnyside Asylum)	J. Masson, Esq.	5	0 10	200	27·28	...
D ,, (Kinnaber W.W.)	S. L. Christie, Esq.	5	1 0	38 T	31·06	176
Brechin (Stracathro Gardens)	Rt. Hon. J.A. Campbell	5	1 0	200 T	30·15	...

DIVISION XVII.—NORTH EASTERN COUNTIES.

KINCARDINE.						
§Laurencekirk (Johnstone Lodge)	Scot. Meteorological Soc.	...	...	...	34·84	...
D Fettercairn (The Burn)	Col. C. McInroy, C.B.	5	0 11	250	36·04	208
,, Manse	Rev. W. Anderson	5	0 2	230 T	33·20?	...
D ,, (Fasque Gardens)	Sir J.R. Gladstone, Bart.	5	1 0	320 T	39·37	157
D Strachan (Bridge of Dye)	Sir J.R. Gladstone, Bart.	5	0 6	540 T	48·22	158
Crathes (Cross Roads, Durris)	A. Macdonald, Esq.	5	1 0	420 T	35·70	215
Durris House [Drumoak]	Mr. A. Reid	5	0 6	200 ?	36·40	...
D Banchory (Invercannie)	W. Dyack, Esq., C.E.	12	0 10	205	36·90	202
D§Crathes (Pinewood)	J. Smith, Esq.	5	1 0	145 T	34·21	189
D ,, (Woodbank Cottage)	Mr. D. Murchison	5	0 6	165 T	35·18	191
Banchory (Hirn)	Mr. W. Caird	5	1 0	287 T	35·71	...
Girdleness	Bd. of Northern Lights	7	4 0	75	24·01?	...
ABERDEEN.						
Braemar (Glenclunie Lodge)	A. Cross, Esq.	5	14 0	1450 T	44·90	...
§ ,,	J. Aitken, Esq.	8	0 9	1114 T	37·33	...
D Balmoral Castle Gardens	J. Michie, Esq., M.V.O.	8	0 10	927 T	38·43	228
D Cromar (Logie Coldstone School)	J. B. Anderson, Esq.	5	1 0	608 T	39·83	250
D§ ,, (,, ,, Loanhead)	Mr. A. Farquharson	5	1 0	743 T	41·67	227
§ ,, (Tillypronie)	Mr. R. Littlejohn	5	1 0	1120 T	42·48	251
D†Aberdeen (Cranford)	D. McHardy, Esq.	5	1 0	120 T	35·63	200
† ,, (Duthie Park)	Scot. Meteorological Soc.	5	1 0	44	30·11	173
§ ,, (King's College)	Meteorological Office	8	2 0	90	31·49	204
Towie (Culquoich)	Col. J. Allardyce	5	1 0	800	39·52	...
D Strathdon Schoolhouse	J. B. Innes, Esq.	5	1 0	980 T	42·18	234
D ,, (Estate Office)	C. Christie, Esq.	5	1 2	990	42·67	260
D Alford (Lynturk Manse)	Rev. J. B. Duncan	5	1 0	600 T	37·85	217
D Monymusk (The Manse)	Rev. Dr. Macpherson	5	1 0	280 T	35·44	209
Ellon (Mains of Waterton)	T. F. Jamieson, Esq.	5	1 0	100	33·21	...
Huntley	Alex. Smith, Esq.	5	1 0	450 T	37·59	...
D New Deer Schoolhouse	H. Cowie, Esq.	5	1 0	397 T	33·25	208
Kinnairdhead	Bd. of Northern Lights	3	2 6	54	26·04	165

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
BANFF.						
D Dufftown (Fife Street)	J. Walker, Esq.	5	2 0	579 ⅄	47·46	239
,, (Dullan Brae)	Mr. R. Gibb	9	1 0	400	40·25?	214
Aberlour	J. F. McGowan, Esq.	5	0 10	300 T	40·75	...
D Craigellachie (Cragganspey)	J. Shearer, Esq.	3	0 1	320	40·80	178
D Keith Station	Mr. John Lyon	6	1 0	364 T	39·25	214
Banff (Earl Hill)	A. Ramsay, Esq.	5	1 0	115 T	30·18	175
Cullen House	Mr. A. Morton	5	1 0	100 T	31·57	...
ELGIN OR MORAY.						
Grantown	Mr. W. Duncan	5	1 1	712 ⅄	38·87	210
Archiestown (Benview)	Mr. J. Milne	5	1 0	750 T	39·64	190
Forres (Balnaferry)	*Scotsman*	...	...	...	31·68	...
Kinloss	J. Mackessack, Esq.	5	1 3	23 T	29·02	...
D§Gordon Castle	Mr. C. Webster	8	1 0	107 ⅄	33·09	198
D Duffus House	Sir A. Dunbar, Bart.	5	1 0	55 ⅄	29·72	189
Covesea Skerries	Bd. of Northern Lights	...	...	...	25·53	150
NAIRN.						
D Ardclach (Glenferness)	late Earl of Leven & Melville	8	1 6	750	43·28	180
D Cawdor (Budgate)	J. Joss, Esq.	5	1 0	250 T	31·89	203
D ,, Castle (R)	The Earl Cawdor	8	4 3	225	29·92	175
D Nairn (Achareidh)	Miss A. Clarke	8	1 0	59 T	27·57	234
§ ,, (School House)	Meteorological Office	8	1 9	84	29·73	243

DIVISION XVIII.—NORTH WESTERN COUNTIES.

WEST INVERNESS.						
D North Ballachulish (Alltshellach)	B. Chinnery-Haldane Esq	5	2 1	80	76·73	256
D Moidart (Kinlochmoidart)	R. Stewart, Esq	5	1 3	25	71·64	235
D Loch Shiel (Glenfinnan)	Col. J. A. Macdonald	5	1 2	50 ?	104·51	250
D§Fort William (Atholl Bank)	W. T. Kilgour, Esq.	5	1 0	171 ⅄	83·88	259
D Arisaig House	Mr. W. Grant	5	1 0	20 ?	65·77	255
D Loch Nevis (Inverie)	Mr. J. Huggins	5	0 6	10	94·72	274
D Glenquoich	Mr. D. Grant	8	1 2	569 ⅄	128·87	272
D Glenelg Manse	Rev. A. Mactaggart	5	1 0	85 ⅄	68·35	253
D Eigg (Kildonan)	Mrs. Glendinning	5	1 0	35	58·96	203
Skye (Oronsay)	Bd. of Northern Lights	...	0 6	15 ?	53·93	198
,, (Kyleakin)	,, ,, ,,	5	4 6	45	52·22	223
D ,, (Scalpay Island)	Mr. D. Gunn	5	1 0	4	89·11	273
Rona	Bd. of Northern Lights	3	1 3	180	32·48?	193
Barra (Barrahead)	,, ,, ,,	7	3 0	613	32·16?	191
S. Uist (Ushenish)	,, ,, ,,	3	1 0	178 ?	86·80	214
§N. Uist (Monach)	,, ,, ,,	8	5 6	20	43·36	244
D ,, (Lochmaddy)	T. D. MacGregor, Esq.	5	0 9	...	39·94	254
Harris (Island Glass)	Bd. of Northern Lights	7	4 2	35	38·41	182
D ,, (West Tarbert)	R. Sinclair, Esq.	5	1 6	33 L	75·65	258

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

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
EAST INVERNESS.						
Glenleven (Chiaron House) No. 3	Loch Leven Power Co.	...	...	...	75·06	...
Spean Bridge (Spean Lodge) ...	Miss W. Davy	...	...	...	66·82	...
Loch Lochy (Invergloy)	G. J. Bailey, Esq.	5	1 0	200	75·07	257
Invergarry	Mrs. Ellice	5	1 0	130 ?	*64·28*	...
§Kingussie	Scot. Meteorological Soc.	5	1 0	828	35·40	212
D§Fort Augustus (St. Benedict's)...	Rev. C. von Dieckhoff..	5	1 6	68 ⅄	51·58	233
D Alvey Manse	Rev. J. Anderson	5	1 0	760	38·65	224
Loch Ness (Killin, Whitebridge).	British Aluminium Co.	5	1 0	1200	41·80	...
D ,, ,, (Garthbeg).....	,, ,, ,,	5	1 0	645	65·67	213
,, ,, (Foyers).....	,, ,, ,,	8	1 6	52	45·63	...
,, ,, (Aberchalder)	,, ,, ,,	5	1 0	700 T	40·07	...
D ,, ,, (Drumnadrochit)	Mr. Angus Grant	5	1 0	138 ⅄	39·11	248
§Inverness (High School)	Scot. Meteorological Soc.	8	1 0	114	31·43	191
WEST ROSS & CROMARTY.						
Glenshiel (Cluanie Forest)	A. Cross, Esq.....	5	0 9	800 T	84·88	...
D Kintail (The Glebe)	Rev. R. MacKenzie ...	5	0 10	30 ⅄	58·80	243
Applecross Gardens	Mr. D. McCowan	5	1 0	70 ⅄	67·12	...
Glencarron (Glenuaig)	W. M. Christy, Esq. ...	5	1 0	1150	162·00	...
D§ ,, ...	Mr. D. D. Munro	5	1 0	504	101·53	280
D Loch Torridon (Bendamph)	The Earl of Lovelace...	5	0 5	20 ⅄	94·95	275
§Kinlochewe.....	Meteorological Office ...	...	...	...	92·42	236
Loch Vraon.....	Lady Fowler	8	0 7	750	66·93	...
Loch Drome	,, ,, ...	8	0 7	850 T	68·60	...
Braemore House.....	,, ,, ...	8	0 7	750	64·57	...
D Ullapool (Drumruinie Lodge) ...	G. Wotherspoon, Esq...	5	2 6	400	77·91	250
D ,, (Inverpolly Lodge).....	,, ,, ,, ...	5	4 0	29	55·31	255
§Stornoway	Meteorological Office ...	8	1 0	40	42·21	256
,, (Tiumpanhead)	Bd. of Northern Lights	...	...	...	45·31	190
,, (Butt of Lewis)	,, ,, ,,	8	4 6	65	46·62	224
Mhaol	Mr. J. McGregor	...	...	600	64·74	...
EAST ROSS & CROMARTY.						
Strathconan (Dalbreac)...	Mr. D. MacIver	5	1 0	450	57·15	...
Contin (Kinnahaird)	W. Ross, Esq.....	5	1 6	74	30·15	...
§Strathpeffer.....	Meteorological Office...	...	...	253	37·48	245
D Fortrose (Raddery)	E. Gathorne Hill, Esq..	5	0 7	300	33·76	204
D Achterneed (Glenskiach)	G. Wotherspoon, Esq..	5	1 6	...	49·48	224
,, (Horsehill)	,, ,, ,,	5	2 6	...	32·80?	...
§Evanton (Swordale House)	Scot. Meteorological Soc.	10	0 8	520	35·90	...
D ,, (Novar Gardens).....	Mr. A. Edmondstone ...	5	0 6	...	47·58	240
Kildary (Tarbat House)	G. Wotherspoon, Esq...	5	1 6	15	25·49?	...
D Alness (Ardross Castle).....	Mr. W. L. Minty	5	1 0	450 ⅄	48·72	247
D Fearn (Lower Pitkerrie)	R. Gordon, Esq., C.E..	5	1 0	95	27·76	148
Tarbatness	Bd. of Northern Lights	8	4 0	51	22·24	...

DIVISION XIX.—NORTHERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
SUTHERLAND.						
D Inversh in	G. Young, Esq.	5	4 0	20 T	40·65	187
D§Dunrobin Castle	Mr. D. Melville	5	1 0	14 ⅄	41·41	167
§ ,, ,, M	,, ,,	3	0 5	13 ⅄	38·60	...
§Lairg	Scot. Meteorological Soc.	...	1 0	390	44·09	269
D Altnaharra	Rev. G. Mackay	5	1 0	300 T	52·32	182
D Bettyhill	Mr. Evander Mackay	5	1 0	100	40·71	177
D Melvich	Mr. A. MacIntosh	5	1 0	...	38·13	199
Cape Wrath	Bd. of Northern Lights	7	4 8	330	40·16	221
CAITHNESS.						
§Wick	Meteorological Office	8	1 9	77	33·19	236
,, (Nosshead)	Bd. of Northern Lights	...	...	...	30·87	172
D Watten Station	Mr. J. Phimister	5	2 6	75 T	28·78	213
D Castletown (The Clett)	Capt. J. Calder	5	1 0	73 ⅄	39·80	257
Thurso (Holburn Head)	Bd. of Northern Lights	3	0 8	60 ?	34·14	221
Dunnet Head	,, ,, ,,	3	1 0	320	30·31	151
Pentland Skerries	,, ,, ,,	7	3 9	40	24·51?	...
ORKNEY.						
Hoy (Cantickhead)	Bd. of Northern Lights	3	1 0	52	25·75	192
,, (Graemsay Sound, East=High)	,, ,, ,,	5	0 4	17	42·14	172
,, (,, ,, West=Low)	,, ,, ,,	8	4 3	27	42·15	187
§Pomona (Deerness)	Scot. Meteorological Soc.	5	1 0	161	36·44	215
Hellyar Holm	Bd. of Northern Lights	3	1 0	28	27·87	196
Auskerry	,, ,, ,,	3	2 6	10	46·90	143
Shapinsay (Balfour Castle)	Mr. T. McDonald	5	0 6	50	31·91	...
Sanday (Start Point)	Bd. of Northern Lights	3	1 0	15	28·37	...
Westray (Noup Head)	,, ,, ,,	3	1 0	190	26·95	175
North Ronaldshay	,, ,, ,,	3	0 4	10	37·68	194
SHETLAND.						
Fair Isle, S.	Bd. of Northern Lights	...	...	...	28·41	198
,, ,, N.	,, ,, ,,	...	...	...	31·56	193
Sumburgh Head	,, ,, ,,	...	...	...	40·70	175
§ ,, (Dunroseness)	Meteorological Office	8	1 0	126	39·78	278
Bressay	Bd. of Northern Lights	3	1 0	62	57·60	191
§Lerwick	Scot. Meteorological Soc.	5	1 0	30	42·30	258
Sule Skerry	Bd. of Northern Lights	3	0 6	40	24·86	184
§Northmavine (Lochend)	Scot. Meteorological Soc.	...	...	...	49·84	...
D Fetlar (The Manse)	Rev. J. A. Campbell	5	1 0	30 L	38·79	281
§Unst (Halligarth)	Scot. Meteorological Soc.	...	...	...	46·34	300

IRELAND.

DIVISION XX.—MUNSTER.

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height above Ground.		Height above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft.	in.	feet.	inches.	
CORK.							
D Castletownshend (Glen Barrabane)	Sir E. B. Coghill, Bart.	5	3	0	25 L	38·66	189
D Dunmanway (The Rectory)	Rev. A. Wilson	5	4	6	205 T	50·55	233
,, (Carbery) (R)	,, ,,	...	4	0	...	50·10	...
D Bandon (Ardnacarrig)	G. A. Armstrong, Esq.	5	1	0	126 T	36·18	217
§Roche's Point	Meteorological Office	8	1	9	32	29·06	236
§Middleton (Ballynacurra)	,, ,,	8	1	0	24	27·38	210
D Cork (Villa Franca)	R. C. Sikes, Esq., C.E.	5	1	0	49 T	32·60	198
D ,, (Queen's College)	Prof. A. Jack	8	1	0	65	30·80	185
D ,, (College Road)	C. H. Jacob, Esq.	8	4	0	120 T	31·55	198
D ,, (The Palace)	Rt. Rev. Bishop of Cork	5	1	0	40 L	30·36	189
D ,, (Fernhurst Avenue)	W. Miller, Esq.	5	1	0	50 B	29·83	192
D Mallow (Summer Hill)	J. F. Williamson, Esq.	5	1	10	261 T	33·17	218
D ,, (Longueville)	R. E. Longfield, Esq.	5	1	1	310 T	33·88	218
D Mitchelstown Castle	W. D. Webber, Esq.	8	3	0	340 ⅄	39·66	219
KERRY.							
D Darrynane Abbey	D. O'Connell, Esq.	5	1	1	13 ⅄	50·99	262
D Waterville (Iveragh Lodge)	R. J. Hughes, Esq.	5	1	0	86 ⅄	40·45	229
Kenmare (Derreen)	Mr. W. Holbrow	5	1	0	74 L	60·90	208
,, (Dromore Castle)	Mr. T. Bloomer	5	2	0	100	59·81	...
,, (Dunkerron)	Miss Palmer	5	1	6	70	64·61	203
§Valencia (Glanleam)	Meteorological Office	8	1	0	62	50·77	275
§Cahirciveen	,, ,,	8	2	0	32	50·16	266
Gap of Dunloe (Garrymeen)	Ven. Archdeacon Wynne	8	3	0	75	82·10	...
D§Killarney (District Asylum)	E. W. Griffin, Esq., M.D.	5	0	10	178 T	45·08	257
WATERFORD.							
D Knockaderry ... No. 1	M. J. Fleming, Esq., C.E.	5	4	0	248 T	29·82	168
D ,, ... No. 2	,, ,, ,,	5	7	7	241 T	29·30	168
D Waterford (Whitfield Court)	Major H. Chavasse	5	0	7	67 ⅄	32·45	178

DIVISION XX.—MUNSTER—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
WATERFORD—(*con.*)						
D Waterford (Brook Lodge)	C. P. Bolton, Esq., C.E.	5	1 0	104 T	33·21	187
§ ,,	Meteorological Office	...	...	...	30·04	165
D ,, (Tycor)	M.J. Fleming, Esq. C.E.	5	0 7	171 T	32·79	143
D Portlaw (Mayfield)	J. Anderson, Esq.	5	4 0	70	33·66	198
D ,, (The Gardens, Curraghmore)	Mr. D. Crombie	5	1 0	95	38·80	146
D Glenam [Clonmel]	Miss Grubb	8	1 4	80 T	34·51	217
D Sheskin [Carrick-on-Suir]	J. Ernest Grubb, Esq.	8	1 4	542 ⅄	36·54	205
TIPPERARY.						
D Clonmel (Bruce Villa)	J. H. Grubb, Esq.	5	1 3	110 T	29·62	194
D§Cahir (Bengurragh)	R. W. Smith, Jr., Esq.	5	1 0	199	36·87	239
,, Abbey	Mrs. W. Rochfort	5	0 6	...	37·51	198
Nenagh (Kilboy)	The Lady Dunalley	8	1 0	326	44·55	202
,, (Castle Lough)	S.G.J. Parker-Hutchinson Esq	5	1 3	120 T	36·98	218
D ,, (Highlands)	John Mounsey, Esq.	5	1 2	470	33·38	202
Roscrea (Timoney Park)	S.G.J. Parker-Hutchinson Esq	5	1 0	475 T	32·63	201
D Ballingarry (Gurteen)	P. Bicknell, Esq.	5	1 0	...	33·40	226
LIMERICK.						
Adare Manor	*Press-cutting*	...	...	...	33·58	212
§Foynes	Meteorological Office	5	1 0	104	42·15	261
D Limerick (Roxborough)	Sir A. W. Shaw	8	1 6	108 T	38·39	219
,, (St. Michael's)	Ven Archdeacon Wynne	8	2 0	50	36·60	...
CLARE.						
D Carrigaholt Castle	W. C. V. Burton, Esq.	5	1 0	16	36·80	240
D Killadysert (Paradise Hill)	F. B. Henn, Esq.	5	0 11	125 ⅄	50·18	242
D§Newmarket-on-Fergus (Carrigoran)	Mr. A. Barker	5	1 0	86	41·46	230
D Broadford (Hurdlestown)	Colonel W. C. Bentley.	5	1 0	167 ⅄	36·50	230
D Killaloe	F Dudley Fletcher Esq CE	5	2 0	...	47·00	210
D Miltown Malbay	M. Molohan, Esq.	5	1 0	400 T	47·78	262
§Inagh (Mount Callan)	Meteorological Office	5	1 0	480	63·48?	254
D Lahinch (Moy House)	Miss Bowes	5	1 0	53	36·31?	239
D Ennistymon House	H. V. Macnamara, Esq.	5	1 0	37 ⅄	47·12	255
D ,, Rectory	Rev. C. W. McDowell	5	1 0	132	47·57	234

DIVISION XXI.—LEINSTER.

WEXFORD.						
Wexford (Reclaimed Lands)	Mr. W. Thomas	8	1 3	—3 T	25·75	...
D New Ross (Longraigue)	J. W. Deane, Esq.	5	1 0	210 T	31·77	192
Wexford (Bann-aboo)	Col. J. R. Magrath	8	4 0	9	32·94	171
D Templeudigan (Ballindoney)	J. Budgen, Esq.	5	1 0	434 B	36·29	197
Enniscorthy (Monart Rectory)	Rev. W. F. A. Ellison	5	0 11	150 T	30·34	...
D ,, (Ballyhyland)	Mrs. Moffat	5	1 0	365 T	34·80	229
,, (Monksgrange)	G. H. Orpen, Esq.	5	1 0	565 B	40·72	205

DIVISION XXI.—LEINSTER—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground		Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft.	in.	feet.	inches.	
WEXFORD—(*con.*)							
Oulart (Wells)	C. M. Doyne, Esq.	5	1	0	207 T	24·28	...
D Enniscorthy (Woodbrook)	Rev. Canon Blacker	5	1	0	300 T	38·89	183
D Gorey (Courtown House)	The Earl of Courtown	5	3	0	80 T	27·59	190
KILKENNY.							
D Rockenham [Waterford]	A. E. Graves, Esq.	5	1	0	140 T	30·39	176
Inistioge (Woodstock)	E. K. B. Tighe, Esq.	6	1	0	400 T	29·77	...
,, (,,) M	,, ,, ,,	8	0	8	919 T	30·74	...
§Kilkenny Castle	Meteorological Office	8	1	0	208	28·70	189
,, (Lavistown House)	Miss Butler	5	2	5	170	26·55	190
D Goresbridge (Barraghcore House)	H. de M. Fleming, Esq.	5	1	0	130 T	28·10	222
WICKLOW.							
D Rathnew (Clonmannon)	Rev. W. H. A. Truell	5	1	0	27	26·59	186
D Laragh (Glendalough)	Wyndham H Wynne Esq	5	2	9	460 T	56·42	223
Roundwood (Vartry Lodge)	Spencer Harty, Esq., CE	5	1	0	720	39·39	...
,,	,, ,, ,,	5	1	6	800 ⅄	37·32	...
,, (Knockatemple)	,, ,, ,,	5	1	6	760 ⅄	34·82	...
D Newcastle (Killadreenan)	T. H. Peyton, Esq., M.D.	8	1	2	255 T	27·38	176
Newton Mt. Kennedy (Seizenpark)	Rev. Canon Drought	...	...		300	31·37	...
Tithewere	Spencer Harty, Esq., CE	5	1	6	1000 ⅄	34·25	...
Annacarter	,, ,, ,,	5	1	6	750 ⅄	35·67	...
Greystones (Knockdolian)	R Cathcart Dobbs Esq CE	5	1	2	68 T	24·60	152
D†Bray (Fassaroe)	R. M. Barrington, Esq.	10	5	0	250	31·78	201
CARLOW.							
Bagnalstown (Fenagh House)	D. R. P. Beresford, Esq	5	1	0	340	28·68	205
,, (,, ,,) M	,, ,, ,,	5	1	0	340	26·12	...
D Carlow (Browne's Hill)	late W. B. Clayton, Esq.	5	1	0	291 ⅄	27·75	185
QUEEN'S COUNTY.							
Sunnyside [Carlow]	E. Shackleton, Esq.	5	1	6	...	26·45	169
Abbey Leix (Blandsfort)	J. L. Bland, Esq.	5	5	0	532 ⅄	30·62	219
D Mountrath (Castletown)	Col. W. Dunne, C.B.	5	3	0	452 T	33·86	215
D ,, (Ballyfin)	Mr. J. B. McLaren	8	1	0	600 T	44·42	214
KING'S COUNTY.							
D§Birr Castle	Earl of Rosse, K.P., FRS	8	1	0	183	32·64	237
Tullamore	Rev. R. S. Craig	5	1	0	201 T	29·90	...
D Edenderry	Lewis H. Williams, Esq.	5	5	6	200	30·07	244
KILDARE.							
D Castledermot	Rev. M. Walsh	5	2	8	...	23·34	184
D Monasterevan (Moore Abbey)	Mr. C. Pilgrim	5	1	0	236 T	28·03	210
D Straffan House	Mr. F. Bedford	5	2	0	240 ⅄	25·69	192
D Clongowes Wood College	Rev. W. P. Hackett, S.J.	8	1	0	238 T	25·41	205
Kilcock (Knockanally)	W. C. Coates, Esq.	5	1	0	290 T	29·99	...

DIVISION XXI.—LEINSTER—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet.	inches.	
DUBLIN.						
D Glen-na-Smoel (Water Works)...	F. P. Dixon, Esq., C.E.	5	1 0	514 ⅄	43·81	227
Carrickmines (Claremont)..	John Read, Esq.	5	0 11	350	25·39	...
D Ballybrack (Streamville)	F. B. Falkiner, Esq....	5	1 5	30 B	22·62	184
D Killiney (Cloneevin)	R.O'B.Furlong,Esq.CB	5	1 0	250 T	22·34	201
,, (Palermo)	Miss S. Anne Orr	5	1 0	200	21·99	...
D Foxrock (Hillside).....	G. M. W. Hill, Esq. ...	5	1 0	245	26·90	226
D Stillorgan (White Cross)	Miss Muriel E. O'Sullivan ...	5	1 0	290	23·39	197
Dundrum (Lynton)	Sir J. W. Moore, M.D..	5	...	200 ?	25·61	205
†Kingstown (People's Park)	Dr. J. Byrne Power ...	8	1 0	43 ⅄	20·84	190
,, (Harbour Office) ...	,, ,, ,, ...	...	...	...	21·04	...
D ,, (,, Yard).....	R. D. Gray, Esq., C.E..	8	1 0	52 ⅄	20·39	180
Rathmines (Terenure)	F. P. Dixon, Esq., C.E.	8	0 6	125 ⅄	25·87	188
D ,, (Leinster Road)	E. H. Cannon, Esq. ...	5	0 11	170	23·49	197
D†Dublin (FitzWilliam Square) ...	Sir J. W. Moore, M.D.	8	1 6	54 T	22·81	203
,, (Leeson Park)	,, ,, ,,	5	1 0	75 ?	23·11	198
† ,, (Trinity College)	Meteorological Office ...	8	1 0	13 ⅄	21·55	192
D† ,, (Phœnix Park)	Maj.R.M.Buckland,RE	8	1 0	155 ⅄	23·71	199
D Glasnevin (Botanic Gardens) ...	F. W. Moore, Esq. ...	8	1 0	55	24·12	212
Malahide (The Green)	T. Bateman, Esq.	5	1 0	25 T	22·79	190
D§Balbriggan (Ardgillan) ... No. 1	Capt. E. R. Taylor.....	5	1 0	211 T	27·13	194
§ ,, (,,) ... No. 3	,, ,, ,, ...	5	1 0	211 T	26·96	...
MEATH.						
D Dunboyne (Stirling, Clonee).....	Mr. J. Pilkington	8	1 0	231 T	27·77	210
Summerhill House.....	Lord Langford	5	1 0	372 T	29·48	212
Athboy	C. P. Coghill, Esq.....	8	1 3	227	32·38	199
Kells (Headfort).....	TheMarquis ofHeadfort	10	5 0	227	32·38	211
D Moynalty (Westland)	W. A. Barnes, Esq. ...	5	1 2	260 T	36·01	230
D Drumconrath (Aclare House) (R)	Admiral Singleton,C.B.	10	2 6	170 T	35·26	221
WESTMEATH.						
Athlone (The Moorings)	Capt. J. Preston.....	5	1 0	178	29·99	...
D ,, ...	F DudleyFletcherEsqCE	5	2 0	128 ⅄	29·45	206
D ,, (Twyford)	J. P. Hodson, Esq.....	5	5 0	188 ⅄	36·62	229
D Moate (Coolatore)	H. A. S. Upton, Esq...	5	1 10	300	36·67	256
D Mullingar (Belvedere)	Mr. J. Bayliss	5	1 0	367 T	34·69	224
Rathowen (Cromlyn).....	Miss C. M. Battersby...	...	...	...	35·17	224
D Streete (Daramona)	W.E.Wilson,Esq.,FRS	10	1 0	276	37·91	251
LOUTH.						
D Drogheda (St. James')	L. Donegan, Esq.	5	1 0	32 T	25·61	223
D Ardee (Lissrenny)	T. F. Filgate, Esq.....	8	0 10	75 T	32·28	238
D Dundalk (Farndreg)	J. Barton, Esq., C.E ..	5	1 6	90 T	31·89	209
D ,, (Mount Pleasant)	TelfordMacneill,EsqCE	5	1 0	60 T	34·08	255
D Greenore.....	T. Chambers, Esq.,C.E.	5	1 0	4 L	29·30	210
LONGFORD.						
D Ballymahon (New Castle).....	Col.W.H.King-Harman	4	2 5	250 T	34·77	206
D Cloondrah	F DudleyFletcherEsqCE	5	2 0	130	30·22	258
D Edgeworthstown (Currygrane Ho.)	Mr. R. Gilbert.....	5	1 0	275 T	35·88	205

DIVISION XXII.—CONNAUGHT.

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft. in.	feet	inches.	
GALWAY.						
D Woodpark [Scariff]	R. F. Hibbert, Esq.	5	1 0	170 ⅄	41·29	236
D Galway (Queen's College)	W. Hare, Esq.	16	9 0	30	41·25	237
D Ballinasloe	W. H. Kempster, Esq.	5	2 6	160 ⅄	36·67	256
D Woodlawn	Mr. A. Porter	5	3 6	300 T	47·98	257
Ahascragh (Clonbrock)	Lord Clonbrock, K.P.	10	5 6	200 T	37·94	...
D Clifden (Kylemore House)	Mr. T. McNab	5	1 0	105	71·10	219
Tuam (Castle Hacket)	P. B. Bernard, Esq.	5	1 6	...	38·54	...
,, (Gardenfield) M	H. Kirwan, Esq.	5	1 0	155 T	43·16	...
,, (,,)	,, ,, ,,	5	6 0	160 T	43·02	242
,, (,,) *weekly g.*	,, ,, ,,	5	1 0	155 T	43·24	...
ROSCOMMON.						
D Albert Lock [Jamestown]	F Dudley Fletcher Esq CE	5	2 0	146 ⅄	31·85	235
MAYO.						
D Cong (The Glebe)	Rev. Canon R. Y. Lynn	5	1 11	112 ⅄	49·65	256
Ballinrobe (Cranmore)	Miss Knox	5	0 9	99	47·15	...
D Westport (Murrisk Abbey)	F. C. Garvey, Esq.	5	1 1	18	48·31	251
D ,, (St. Helen's)	Miss Kelly	6	0 11	35 ⅄	45·67	247
§ ,, (Mallaranny)	Meteorological Office	5	1 0	120	59·63	...
D Newport (Burrishoole House)	H. M. Anketell Jones Esq	5	3 0	30	52·60	235
Doo Castle [Tobercurry]	Mr. D. O'Dowd	5	4 0	...	41·31	238
§ Blacksod Point	Meteorological Office	8	0 10	37	48·67	286
D Crossmolina (Enniscoe)	J. Pratt, Esq.	5	0 11	74 T	51·11	264
SLIGO.						
Ballymote (New Park)	R. A. Duke, Esq.	5	1 6	228	42·90	...
D § Collooney (Markree Observatory)	J. R. Armstrong, Esq.	5	1 0	127 ⅄	44·57	254
§ ,, (,, ,,)	,, ,, ,,	5	16 6	143 ⅄	36·21	251
D Ballysadare Bay (Glen Lodge)	Mrs. Vernon Cochrane	5	1 0	14	41·39	263
LEITRIM.						
D Ruskey	F Dudley Fletcher Esq CE	5	2 0	139 ⅄	35·00	219
§ Carrigallen	Meteorological Office	...	...	350 ?	46·99	227
Drumshanbo (Lough Allen Sluices)	F Dudley Fletcher Esq CE	5	2 0	169 ⅄	36·93	...

DIVISION XXIII.—ULSTER.

CAVAN.						
D Stradone House	Mr. J. Hart	5	1 0	280 T	35·45	167
D Killeshandra (Castle Hamilton)	Major W. J. Hamilton.	5	1 0	251 T	31·79	186
D Belturbet (Cloverhill)	Mrs. Sanderson	5	1 0	202 T	34·70	231
D Ballyconnell House	Surg.-Gen. S. B. Roe, CB	8	1 2	196	46·16	230

DIVISION XXIII.—ULSTER—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.		Height Above Sea Level	Depth of Rain. 1905	Days with ·01 or more recorded.
		in.	ft.	in.	feet.	inches.	
FERMANAGH.							
Enniskillen (Portora)	W. N. Tetley, Esq.	5	1	0	251 T	37·51	...
D Belleek	J. Beacom, Esq.	5	1	5	150	48·41	247
MONAGHAN.							
D Dartrey [Cootehill]	The Earl of Dartrey	5	2	6	265	36·23	178
D Monaghan (Rowantree House)	Dr. J. C. Hall	5	5	6	240	29·97	214
ARMAGH.							
D Bridge Street [Newry]	J.L.D.Meares,Esq.C.E.	5	0	9	22 ⅄	37·02	233
D Tanderagee	J. Taylor, Esq.	5	1	6	198 T	33·00	206
D Armagh Observatory	Dr. J. L. E. Dreyer	8	1	0	210 ⅄	30·14	227
D Loughgall (Manor House)	Mrs. Cope	5	1	0	205 T	30·02	206
D Lurgan (Belle Vue)	S. A. Bell, junr., Esq.	5	0	5	200 T	28·57	201
DOWN.							
D Warrenpoint (Summer Hill)	B. M. Kernan, Esq.	5	1	0	30 L	30·82	184
D Newcastle (Tullymore Park)	Col. Hon. R. J. Jocelyn	5	1	0	276 T	46·19	213
D Rathfryland (Ballynagappoge)	J. Smyth, Esq., C.E.	5	1	0	300	30·05	173
D Castlewellan (Lough Island)	,, ,, ,,	5	1	0	440 T	35·82	193
Banbridge (Katesbridge)	A. A. Mulligan, Esq.	5	1	0	230 T	27·63	188
Seaforde	Major W. G. Forde	8	0	5	180 ⅄	34·23	224
Banbridge (Corbet Reservoir)	J. Smyth, Esq., C.E.	5	1	0	234	26·32	...
D ,, (Milltown)	,, ,, ,,	8	0	8	200 T	31·88	207
Moyallon [Portadown]	Miss M. K. Richardson.	5	0	5	130 T	30·07	215
§Donaghadee	Meteorological Office	8	1	6	40	28·60	219
ANTRIM.							
D Lisburn (Ulster Provincial School)	J. Woolman, Esq.	5	1	0	208	43·80	215
Stonyford (Belfast W. W.)	F W McCullough Esq. C.E	5	1	6	437 ⅄	34·67	206
D† Belfast (Queen's College)	Mr. G. Robinson	5	1	0	62 ⅄	36·15	235
D† ,, (Springfield)	T. G. Firth, Esq.	5	1	0	150 T	41·25	252
† ,, (Antrim Road)	F W McCullough Esq. C.E	5	7	0	144 T	35·80	214
Antrim (Ardnaveigh)	H. B. Murray, Esq.	7	0	9	210 T	34·11	223
Carrickfergus (Dorisland)	F W McCullough Esq. C.E	5	1	0	250 ⅄	39·18	235
,, (South Woodburn)	,, ,, ,,	5	1	0	640 ⅄	48·22	240
,, (North ,,)	,, ,, ,,	5	1	0	735 ⅄	50·81	245
,, (Copeland)	,, ,, ,,	5	1	0	424 ⅄	36·21	233
,, (Lough Mourne)	,, ,, ,,	5	1	0	596 ⅄	44·34	246
D Ballymena (Harryville)	J. R. Williams, Esq.	5	1	5	150 T	43·11	257
D Broughshane (Quolie)	H. O'Hara, Esq., C.E.	5	1	4	893	50·96	254
§Glenarm Castle	Meteorological Office	8	9	0	45	47·03	204
Ballymoney (Balnamore)	George Smyth, Esq.	5	1	5	50 T	35·60	265
Stranocum (Gardenvale)	A. McNeill, Esq.	5	1	0	160	41·46	254
D Bushmills (Dundarave)	Sir F. E. Macnaghten, Bt	5	1	0	162 T	36·44	228

DIVISION XXIII.—ULSTER—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.		Height Above Sea Level	Depth of Rain. 1906	Days with ·01 or more recorded.
		in.	ft.	in.	feet.	inches.	
LONDONDERRY.							
D Garvagh (Moneydig)	H. R. Morrison, Esq.	5	1	0	121	37·39	197
D Londonderry (Creggan Res.)	Mr. J. Hutchison	8	1	0	320 T	45·35	266
D ,, (Dunruadh)	J. H. Welch, Esq.	5	0	6	130 T	42·16	233
Limavedy (Drenagh)	M.M. McCausland, Esq.	5	1	6	80 T	35·21	252
D Bellarena	Dowager Lady Heygate	5	1	3	7	40·86	232
D Coleraine	W. R. Kennedy, Esq.	5	4	0	52	41·77	237
TYRONE.							
D Stewartstown (The Square)	A. Johnston, Esq.	5	1	4	300 T	37·29	212
D Omagh (Edenfel)	Col. L. M. Buchanan, C.B.	8	1	0	280 T	42·40	247
D Newtown Stewart (Baron's Court)	Mr. R. Bell	5	1	0	250 T	44·40	233
DONEGAL.							
D Killybegs (White House)	A. Brooke, Esq.	5	1	5	30	67·68	259
Lough Eske Castle	Mrs. H. G. White	5	1	0	170 T	68·74	237
D Convoy	Rev. Preb. Thompson	5	0	9	150 T	49·97	243
D Letterkenny (District Asylum)	E. E. Moore, Esq., M.D.	5	1	0	183 T	48·02	255
Rathmullan	Col. T. E. Batt	5	0	9	75	46·83	258
D Buncrana (Rockfort)	T. Colquhoun, Esq.	5	1	0	55 T	42·03	228
Ardnadrean Rectory	Rev. W. S. Griffith	5	1	1	24	50·18	...
D Dunfanaghy (St. Helen's)	J. J. MacGrath, Esq.	8	1	0	55	47·97	248
Fanad (Tamney Rectory)	Rev. A.C. Digby French	5	4	0	115 T	43·02	261
D Horn Head	C. F. Stewart, Esq.	5	1	0	163	46·62	262
D Lough Swilly (Carrablagh)	H. C. Hart, Esq.	5	1	0	130	50·01	254
§Malin Head	Meteorological Office	8	1	0	220	34·50	255

62, Camden Square,
London, N.W.

H. R. M.

RULES FOR SECURING UNIFORMITY IN RECORDING RAINFALL.

1. Selection of Site.—A rain gauge should be placed on a level piece of ground, not upon a slope or a terrace, and certainly not on a wall or roof. It should be at a distance from every object higher than itself, and should never be nearer to a wall or house than a distance equal to the height of that object, nor nearer to a growing shrub or tree than a distance equal to twice that height. Care should be taken to keep flowers or vegetables away from the gauge for a distance of at least three feet all round. If a perfectly open site cannot be obtained, shelter is least harmful on the north-west, north and east; but the exposure to south-west and north-east should always be free. The height above sea-level should be determined, if possible, by levelling from the nearest bench mark. The approximate height may be easily ascertained in most cases by reference to the maps of the Ordnance Survey. A specific name should be selected by each observer for his station.

2. Mountain and Moorland Sites.—Care should be taken that mountain or moorland gauges are not unduly exposed to the sweep of the wind. A level patch of ground or a very slight hollow should be selected, and a turf wall, about 2 feet high, surrounding the gauge at a distance of from six to ten feet is recommended.

3. Placing the Gauge.—The gauge should be planted in the earth and fixed by stakes or placed in a hole which exactly fits it in a block of cement. It should be fixed so firmly that it will neither be blown over nor tilted by the strongest wind, and it is best to be surrounded by short grass. The gauge should be occasionally examined, and repaired if any leakage or other defect is detected.

4. Height above Ground.—The funnel of a rain gauge should be set exactly level, and at a height of 1 foot above ground. If the gauge is surrounded by long grass, or likely to become so, the height may be as much as 1 ft. 6 in., but it should never be more.

5. Change of Gauge.—When an old-established gauge has to be discontinued for any reason, a new gauge should be established on a proper site one year, or, if possible, two years, before the old one is removed, so that the readings of both may be compared and the continuity of the record ensured. This rule does not apply to the substitution for an old gauge, which has become defective, of a new gauge of the same size and pattern on the same site. It is most convenient to start a new gauge on January 1st. The fact of a change, with date, distance and direction from former site should be reported when it is made.

6. Absence of Observer.—An assistant should, if possible, be trained to measure the rainfall in the absence of the observer. When no such provision can be made it should be arranged to have the gauge visited at the usual hour, and the water bottled and labelled to be kept until the observer returns.

7. Second Gauges.—It is advantageous to have two gauges, one of them capable of holding at least 8 inches of rain. This should be read weekly or monthly as preferred, but in either case on the 1st of each month. A thorough check is thus kept on accidental errors in the readings of the daily gauge. A separate record must be kept of each gauge; the mean of the two should never be entered.

8. Recording Gauges.—When the expense is not prohibitive, observers are strongly recommended to have a self-recording rain gauge as well as an ordinary gauge for daily reading. Such a gauge should preferably record in a continuous line, so that the duration of light rainfall may be accurately measured.

9. Hour of Observation.—Rainfall should be measured at 9 a.m. daily, and the amount entered against the date of the previous day. Thus, the figure to be entered opposite each date is the amount measured at 9 on the following morning.

10. Reading the Rain Glass.—In measuring rain by means of the graduated glass the observer must pour the water carefully from the bottle or inner can into the glass. If the glass is not filled the reading should be taken by holding it upright or setting it on a level slab, then bringing the eye opposite the level of the water so as to fix the nearest line on the scale to the water surface, not necessarily the line next above or the line next below the surface, but the one of these which is nearer. Each division represents one-hundredth of an inch. If there is more water in the gauge than can be measured at once, the glass should be filled up to the ·50 mark, emptied into a jar, and filled up again as often as necessary, counting the number of times, and finally measuring the residue in the usual way. The water in the jar may be measured again roughly to make sure that no mistake has been made in counting the number of half-inches. The amount should be written down before the water is thrown away. Every measuring glass should have a certificate.

11. Small Amounts.—If the gauge contains less than one-hundredth (·01) of an inch but more than half that amount, it should be entered as ·01, while if there is less than half that amount the few drops may be thrown away and the day entered as if no rain had fallen. A rain glass which is conical below, as in the "Camden" pattern, allows this to be very easily determined. All water found in the rain gauge is to be treated as rain, even though it comes from melted snow, dew or mist.

HUGH ROBERT MILL.

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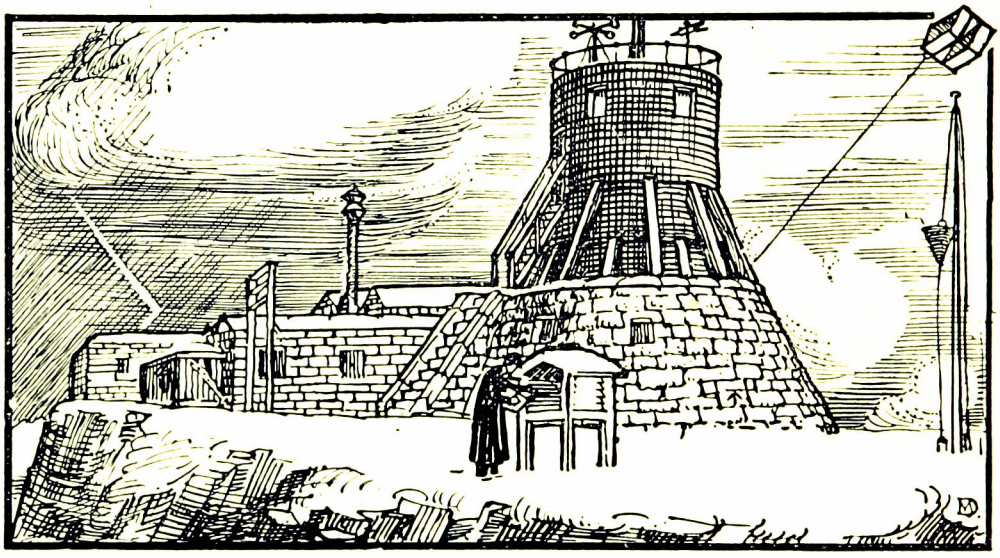

MONTHLY.

THIS MAGAZINE, FOUNDED IN 1866, IS DEVOTED TO THE SCIENCE OF METEOROLOGY IN ALL ITS BRANCHES. THE MONTHLY CLIMATOLOGICAL TABLE OF THE BRITISH EMPIRE IS A UNIQUE FEATURE. SPECIAL ATTENTION IS GIVEN TO CORRESPONDENCE FROM METEOROLOGISTS AND OBSERVERS. THE MEETINGS OF METEOROLOGICAL SOCIETIES ARE PUNCTUALLY REPORTED. ALL IMPORTANT BOOKS BEARING ON METEOROLOGY ARE REVIEWED. ORIGINAL ARTICLES AND DESCRIPTIONS OF NEW APPARATUS FREQUENTLY APPEAR. EXCEPTIONAL CONDITIONS OF WEATHER IN THE BRITISH ISLES ARE DISCUSSED WHILE STILL REMEMBERED.

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