

BRITISH RAINFALL,
1900.





THE ILKLEY FLOOD OF JULY 12, 1900.
View in Back Myddleton Road, after the Storm

BRITISH RAINFALL, 1900.

ON

THE DISTRIBUTION OF RAIN

OVER THE

BRITISH ISLES,

DURING THE YEAR

1900,

AS OBSERVED AT ABOUT 3500 STATIONS IN
GREAT BRITAIN AND IRELAND,
WITH ARTICLES UPON VARIOUS BRANCHES OF RAINFALL WORK.

COMPILED BY

H. SOWERBY WALLIS,

AND

HUGH ROBERT MILL,

D.Sc., LL.D.

LONDON :

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

1901.

ERRATA IN BRITISH RAINFALL, 1899.

- Page 28. Ashburton (Druid House). August 4·11 in. should be 4·13 in.
Total 49·97 in. should be 49·99 in.
- „ 29. Llanystwmdwy (Talarvor). September 3·22 in. should be 3·24 in.
Total 35·54 in. should be 35·56 in.
- Marchmont House. December 2·75 in. should be 2·82 in. Total
31·86 in. should be 31·93 in.
- „ [217]. Huddersfield (Dalton). Diameter 12 in. should be 8 in.
- „ [229]. Haverfordwest (High Street). Total 42·06 in. should be 42·26 in.
- „ [235]. Jedburgh (Ancrum Bridge). Total 32·85 ? in. should be 28·93 in.
-

ERRATUM IN BRITISH RAINFALL, 1900.

- Page [157]. Buckhorn Weston. February : *for* 3·82 in. *read* 4·82 in., and
Total : *for* 27·47 in. *read* 28·47 in.

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P R E F A C E .

It is probably within the knowledge of all our readers that the eminent founder of the British Rainfall Organization was struck down by paralysis early in 1900, at a comparatively early age, and when in the full vigour of health, and the sole responsibility for the future of the Organization, and the custody of the records of the past, devolved upon me.

Association with him in the work for 30 years, from the time when he was able to deal with it single handed, while it gave the knowledge and experience so essential for its continuance, exhausted a large proportion of the allotted span of life, and this, coupled with failing health made the duty of at once securing a successor imperative upon me.

After very careful consideration I invited Dr. H. R. Mill, F.R.S.E., who had devoted much attention to rainfall, more especially in its relation to geography, to join me in the work, and with each succeeding year more and more of the responsibility will devolve upon him. Under his able control the organization will, I have no doubt, continue to develop as it did under that of its founder.

The lateness of the date at which I am writing is in great measure due to interruptions caused by ill-health, but the increasing number of Local Societies and Public Bodies which publish rainfall records renders the comparison and collation of the returns more laborious each year, and much of this comparison cannot be commenced until the Local Bodies have summarised and published their records.

In future we hope, however, to be able to return to July as the month of publication.

H. SOWERBY WALLIS.

62, CAMDEN SQUARE, LONDON, N.W.,
August 17th, 1901.

REPORT.

General Work.—Observers have sometimes expressed surprise that *British Rainfall* cannot be issued within three months of the termination of the year to which it relates, but perusal of the following will give some idea of the labour involved in preparing the volume.

In an annual work of this character there is much that it is desirable for readers to know, but which it is unnecessary to repeat year after year as a considerable number are regular subscribers.

In a subsequent article will be found a brief *resumé* of some of the more important “results” recorded in the 40 volumes of *British Rainfall* and this may be supplemented here by a brief description of the work carried on at head-quarters. Two lists of all known observers are kept, one arranged geographically under the Counties as in the General Tables in the volume, the other alphabetically under the observers’ names with the postal addresses. The changes number about 500 per annum, about 250 records ceasing and 250 commencing, so that the work of keeping these lists complete is considerable. In December of each year an envelope is addressed to every known observer and the thousands of forms requisite are folded and placed in them, but even this requires thought and care as many observers have more than one gauge and the requisite number of forms has to be ascertained. Generally a few of the forms come back too soon from observers who have neglected Rule IX. “The amount measured at 9 a.m. on any day is to be entered against the previous day because the amount registered at 9 a.m. of, say, 17th contains the fall during 15 hours of the 16th, and only 9 hours of the 17th.” This causes correspondence.

During the first week or so letters come in by hundreds every day, and these have to be opened with care, for each year there are several with neither name of place nor observer which can be identified only by comparison of the handwriting with that of the returns for the

previous year, in the neighbourhood indicated by the post mark on the envelope.

The next process is to check the casting of every column of figures in the returns—about 2,000 daily sheets and 4,000 annual summaries—and every case of incorrect addition is referred to the observer. The records are next sorted into the order of the General Tables, and are compared with any other returns for the same stations.

The Royal Meteorological Society and the Meteorological Office favour us with copies of the hundreds of returns which they receive. The rainfall observations are extracted from the Reports of the Registrars General both of England and Scotland. The Transactions of almost innumerable local Scientific Societies, Reports of County Councils, Medical Officers of Health, Drainage and Fishery Boards, and newspaper cuttings from all over the three kingdoms, are searched for records, and these together yield a total probably as great as the returns of the observers themselves. All discrepancies are hunted down, and again much correspondence results.

While this is in progress second applications are sent to all observers whose returns have not arrived, to the number of about 500. Some are ill, some are abroad, some have moved away, some the first application failed to reach, and some are doubtful whether their records are reliable, owing to accident, overflow, interruption, &c., &c. All these are fruitful sources of correspondence. Later on a third application has to be sent to nearly 200 observers.

Then begins the pleasant work of summarizing the returns, and studying the character of the year, extracting and tabulating the heavy falls, preparing tables for the printer, and reading and re-reading the proofs.

As soon as the general tables are received from the printer, the difference between the total for the year under consideration, and the preceding year, is calculated, and wherever the difference is anomalous the return is subjected to critical examination, earlier years are referred to, to see if a steadily increasing or decreasing amount suggests that the gauge is defective, allowing water to leak into, or out of it,—again much correspondence ensues. This year a still more rigorous check has been instituted. Owing to the irregularities caused by the great snowfall in February it was felt that the records must in some few instances be adjusted, and to do this every return was compared month by month with those for

neighbouring stations ; a check which was most gratifying in proving the care and accuracy of the vast majority of the observers.

Later comes the struggle between the desire to add finishing touches and additional checks and to avoid the unnecessary delay of even a single day. Finally the work is printed off, and reaches the subscribers, we hope, a credit to all concerned in it, and to the nation.

Checking.—We have strong fellow-feeling for busy men, but much of the above-mentioned work would be lightened if all observers would practice two rules more than once urged in print by our late Chief, and rigorously practiced by all the assistants here—

“Never copy a total without casting it as well ;”

“Always add a column twice, once up and once down.”

Overflow.—The great rain of December 30th, though it did not at any stations reach 4·00 in., caused nearly half-a-dozen gauges to overflow. There are still, we believe, a few observers who think that *they* will never have the excitement of measuring as much as two inches. We hope they will not have the disappointment of losing a more remarkable record.

Additional Observers.—Our total number of records is this year practically the same as for 1899. This was only to be expected, as the numbers have been increasing with unusual rapidity for the last few years. Of new records we have received not quite so many as usual. The name of G. J. Symons was so thoroughly identified with *British Rainfall* that some observers seem hardly to realize that without him their observations can still be of use. We are glad to receive returns from *all parts* of the British Isles, and especially from thinly-populated districts. Additional observers are *urgently wanted* in nearly all parts of Scotland and Ireland.

Rainfall of Snowdonia.—Mr. Gethin Jones has this year been most successful in the tremendous task which he has set himself, and has secured records for the year for no fewer than nine stations on the eastern slopes of Snowdon, with totals ranging from 112 inches to 193 inches. These observations, of course, cannot be made with the precision of ordinary daily records, but are, we have no doubt, as accurate as any other British records of similarly large amount. We regret to add that he has had the mortification to find one of his gauges destroyed by that disgraceful pest, the tourist who cannot enjoy the beauties of nature without doing malicious damage.

Rainfall of the Decade 1890-1899.—As far as the more urgent work of preparing *British Rainfall* would allow, the calculation of the averages of the ten years 1890-1899 has been pushed on with, and is in a forward state.

A rough estimate of the number of records complete for the decade indicates about 1,500 for England and Wales, 250 for Scotland, and 100 for Ireland. Figures which make one rejoice at the glorious possibilities of the knowledge to be obtained from them, but depress one with the hopelessness of finding time to do full justice to them.

Finance.—This is the branch of the work which we feel most foreign to our nature, though we fully realize that the wherewithal to make good observations useful, is as important as the good observations themselves. We at times feel that it would be a relief if a kindly government would provide the requisite funds, but we are sure that in the long run it would prove detrimental. The observers would lose the stimulus of feeling that the whole work is theirs, dependent upon them alone, and that to them their fellow countrymen are indebted for what in most other countries is provided by a Public Department at the cost of the national exchequer. The organization would lose the healthful bracing resultant from overcoming difficulties, and suffer from the severance from the traditions of the past under which it grew to its present magnitude and usefulness.

The subscriptions received up to date are somewhat below the average of the past few years, but the present income tax and other results of the war sufficiently explain this, and we look forward to the future with confidence.

H. SOWERBY WALLIS.

HUGH ROBERT MILL.

LIST OF ALL SUMS OF £1 AND UPWARDS RECEIVED IN PAYMENT
FOR BOOKS, DIAGRAMS, &c., OR AS CONTRIBUTIONS TO THE
GENERAL EXPENSES OF RAINFALL INVESTIGATIONS IN 1901.

CORPORATIONS AND WATER COMPANIES.

	£	s.	d.
Aire and Calder Navigation Company	1	6	0
Birmingham Corporation	2	12	0
Bolton	2	1	0
Brighton	3	0	0
Bristol	1	1	0
Bury	1	1	0
Cardiff	1	1	0
Clevedon Water Board	1	1	0
Derby County Asylum	1	1	0
Doncaster Corporation	1	1	0
Hull Corporation.. ..	1	1	0
Leicester	1	17	0
Lowestoft Gas and Water Company.. ..	1	0	0
Nottingham Corporation	1	1	0
Sheffield	1	1	0
Southwark and Vauxhall Water Company	1	1	0
Warrington Corporation	1	1	0
Weaver Navigation Trust	1	6	0

	£	s.	d.		£	s.	d.
Addington, Rt. Hon. Lord	1	1	0	Bell, H., Esq.	1	17	0
Ainsworth, Col. D.....	1	1	0	Bennett, J. B., Esq. C.E.	1	6	0
„ Col. R. H.	2	10	0	Bentley, E. J., Esq.	1	6	0
Aitken, R., Esq.	1	0	0	„ R., Esq.	2	2	0
Allcard, Miss	1	10	0	Benyon, J. H., Esq.	1	10	0
Allen, A. C., Esq.	1	1	0	Berners, C. H., Esq.	1	1	0
Allison, R. A., Esq.	1	0	0	Berryman, F. H., Esq.	1	1	0
Ames, F., Esq.	1	0	0	Best, Colonel	1	0	0
„ The late H. St. V., Esq. ..	2	2	0	Bickham, S. H., Esq.	1	0	0
Anderson, W. D., Esq., M.D.	1	0	0	Biddell, The late G. A., Esq.	1	5	0
Appach, Miss	1	1	0	Bilham, C. S., Esq.	1	0	0
Ashby, C., Esq.	1	0	0	Billiat, J., Esq., J.P.	1	0	0
Assheton, R., Esq.	1	10	0	Blackwell, Mrs.	1	10	6
Backhouse, Mrs.	1	0	0	Blake, A. M., Esq.	1	1	0
„ T. W., Esq.	5	15	0	Blamire, Rev. W. H.	1	1	0
Bailey, Allanson, Esq.	2	9	0	Boscawen, Capt. Griffith	1	2	0
Baines, L. T., Esq.	1	1	0	Boston, Rt. Hon. Lord.....	3	13	0
Baker, W. C., Esq.	1	1	0	Boughton, Miss F. H. R.	1	1	0
Baker-Gabb, R., Esq.	1	1	0	Bradford, Rt. Hon. Earl of	1	0	0
Banks, J. Eldon, Esq.	1	1	0	Bradshaw, Miss	1	1	0
Barclay, F. J., Esq.	2	0	0	Bramwell, Sir F. J., Bt., F.R.S.	2	2	0
Barnes, R. H., Esq.	1	1	0	Brook, C. L., Esq.	10	0	0
Barrington, R. M., Esq.	1	0	0	Brown, F. F., Esq.	1	1	0
Bass, Messrs., & Co.	3	10	0	Brunner, Mond & Co., Messrs. ..	2	2	0
Baxendell, J., Esq.	1	1	0	Buchanan, Sir J., Bt.	1	0	0
Bayard, F. Campbell, Esq.	2	4	0	Buchanan, Col., C.B.	1	1	0
Beauchamp, E. B., Esq.	1	0	0	Buckley, T. H. W., Esq.	1	1	0
Beaumont, The late Rev. Canon..	1	0	0	Burbidge-Hambly, C. H., Esq. ..	1	1	0

	£	s.	d.		£	s.	d.
Burrell, Miss	1	0	0	Dymond, Miss E. A.	1	16	0
Burton, Rt. Hon. Lord	1	1	0	" E. E., Esq.	5	0	0
" W. C. V., Esq., J.P.	1	0	0	Dynevor, Rt. Hon. Lord	1	1	0
" Mrs.	1	1	0	Eastwood, F. B., Esq.	1	1	0
Bushell, R., Esq.	2	0	0	Eaton, H. S., Esq.	1	0	0
Butler, W. B., Esq.	2	6	0	Edge, T. L. K., Esq.	5	0	0
Caird, J. A. Henryson, Esq.	1	0	3	Ellice, Mrs.	1	1	0
Calthorpe, Rt. Hon. Lord	2	0	0	Ellis, The Hon. and Rev. W.C. ..	2	2	0
Campbell, Rt. Hon. J. A., M.P.	1	1	0	Elmhirst, R.	1	0	0
Carr, Mrs. E. Donald	1	0	0	Emerson, J. J., Esq.	1	0	0
Carthew, Major	1	1	0	Esdaile, C. E. J., Esq.	1	1	0
Chambers, B. E. C., Esq.	1	6	0	Evans, F. G., Esq.	1	10	0
Chancellor, F., Esq.	1	1	0	Ewart, Miss	1	0	0
Chapman, E., Esq., M.P.	3	15	0	Eyre, The late F. H. D., Esq. ..	2	10	0
Charlton, J., Esq.	1	0	0	" Rev. W. L.	1	10	0
Chrimes, C. E., Esq.	10	0	0	Farrah, J. Esq., F.L.S.	1	1	0
Christopherson, Rev. A.	1	0	0	Farrer, Oliver C., Esq.	1	0	0
Christy, W. M., Esq.	1	0	0	" Rev. Walter	1	1	0
Clark, Godfrey L., Esq.	2	0	0	" Sir W. J.	1	0	0
Clarke, Harvey, Esq.	1	1	0	Fenwick, T., Esq., C.E.	1	10	0
" R., Esq., C.E.	1	6	0	Ferard, C. A., Esq.	1	1	0
" R. Stanley, Esq.	2	5	3	Ffolkes, Rev. H.	1	2	6
" the late Colonel	1	0	0	Field, The Misses	3	19	0
Clay, A., Esq.	1	1	0	Filgate, T. F., Esq.	1	0	0
Clutterbuck, Rev. F. C.	1	0	0	Fisher, W., Esq.	1	0	0
" Admiral	1	1	0	Fleming, T. R., Esq.	1	0	0
Cole, Rev. R. E.	1	0	0	Ford, A., Esq.	1	1	6
Coles, S. H. Cowper, Esq.	1	0	0	Forde, Rt. Hon. Colonel	2	5	0
Collingwood, E. J., Esq.	1	1	0	Forsyth, J. N., Esq.	1	0	0
Colville, E. L. M., Esq.	1	16	0	Foster, C. F., Esq.	1	1	0
Coode, R. C., Esq.	2	0	0	" Lewis, C., Esq.	1	0	0
Cope, Mrs.	1	10	0	" Mrs.	1	2	0
Cork, The Rt. Rev. the Bishop of	1	0	0	Fox, Rev. J. C.	1	0	0
Courthope, Colonel, C.B.	2	0	0	" Rev. W. H.	2	0	0
Courtown, Rt. Hon. Earl of	1	0	0	Fryer, W. R.	1	1	0
Cousland, A. S., Esq.	1	0	0	Furlong, R. O'B., Esq., C.B.	1	0	0
Cowper, Rt. Hon. Earl.	1	1	0	Gamlen, Miss	1	10	0
Crowdson, W. H., Esq.	1	1	0	Garnett, W., Esq.	5	0	0
Croft, Miss V. M.	1	1	0	Garnons-Williams, Lt.-Col.	1	0	0
Cross, Alexander, Esq., M.P.	1	1	0	Garrett, Rev. H.	1	0	0
" Rev. J.	1	0	0	Gatty, Dr.	5	15	0
" R., Esq.	1	1	0	Green, Lawrence, Esq.	1	10	0
Crossman, A., Esq.	1	1	0	Greg, A., Esq.	1	0	0
Crowley, F., Esq.	1	10	0	Griffith, W. D. W., Esq.	1	0	0
Currey, Elliott S., Esq.	1	5	0	Grundy, R. A., Esq.	1	0	0
Daubeney, Major	1	0	0	Gulson, J., Esq.	1	6	0
Davidson, Mrs.	1	0	0	Gunner, W. A., Esq.	1	1	0
Davies, Rev. R. P.	1	0	6	Hadow, Rev. G. R.	1	6	3
Dawson, A. Mitchell, Esq.	1	0	0	Hall, Joseph, Esq., C.E.	1	0	0
Day, N., Esq.	1	1	0	" Percy C., Esq.	1	1	0
Dearden, J. Griffith, Esq.	1	0	0	Hamilton, Rt. Hon. Lord	1	1	0
De L'Isle, Rt. Hon. Lord.	1	10	0	Hankinson, The late R. C., Esq.	1	1	0
Deverill, W. H., Esq., D.L., J.P.	1	0	0	Hare, Mrs. Marcus.	1	0	0
Dines, W. H., Esq.	1	1	0	" Theodore J., Esq.	1	6	0
Dixon, G., Esq.	1	5	0	Harris, C. E., Esq.	1	0	0
" J., Esq.	1	1	0	Hartley, T. M., Esq.	1	0	0
Dobie, Captain W. A.	1	0	0	Haworth, H. S., Esq.	1	1	0
Doncaster, D., Esq.	1	0	0	Hayhurst, Colonel France	1	1	0
Driberg, J. J. S., Esq.	2	2	0	Hayle, Dr. T. H.	1	1	0
Druce, F., Esq.	2	0	0	Heberden, W. B., Esq., C.B.	1	0	0
Ducie, Rt. Hon. Earl of	4	0	0	Helps, A. S., Esq.	1	0	0
Dyack, W., Esq., C.E.	1	1	0	Herbert, A. C., Esq.	2	0	6
Dyke, T., Esq., C.E.	1	10	0	Hesketh, R. L., Esq.	1	1	0

	£	s.	d.		£	s.	d.
Hill, A., Esq.	1	1	0	McAndrew, J. C., Esq.	2	2	0
„ T. A., Esq.	1	1	0	Mace, J. Ellis, Esq.	2	3	0
Hodgkin, Dr.	1	1	0	McEwan, J., Esq.	1	1	0
Hodson, Messrs. G. & F. W., C.E.	1	11	6	Machin, W. G., Esq.	1	1	0
Holmes, W. H., Esq.	1	0	0	McInroy, Colonel, C.B.	1	1	0
Hooker, C. P., Esq.	1	1	0	Mackeson, Messrs., & Co.	1	5	0
Hopkins, W. R. Innes, Esq.	2	2	0	Maclear, Admiral	1	0	0
Hopkinson, J., Esq.	1	0	0	Major, R. H., Esq.	1	1	0
Horner, D. W., Esq.	1	0	0	Mann, E., Esq.	1	0	0
„ Mrs.	1	0	0	Mansergh, J., Esq., C.E., F.R.S..	2	2	0
Horsfall, T. C., Esq.	1	11	0	Maples, C. E., Esq.	1	6	0
Hoskins, Miss	1	0	0	Markham, C. A., Esq.	1	0	0
Hounsom, W. A., Esq.	1	0	0	Marling, Colonel	1	10	0
Howard, W. D., Esq.	10	15	0	Marriott, C. H., Esq., M.D.	1	1	0
„ Lady Victoria	1	1	0	Marsh, Leonard S. M., Esq., C.E.	1	0	0
Howells, T. M., Esq.	1	1	0	Marshall, J., Esq.	2	0	0
Hunter, J., Esq., C.E.	1	2	0	„ Stephen A., Esq.	5	0	0
Hurnard, S. F., Esq.	4	6	0	Marson, F. B., Esq.	1	1	0
Hurt, Albert F., Esq.	2	15	0	Marten, E. B., Esq., C.E.	2	2	6
Hutchings, Rev. Canon	1	0	0	„ E. D., Esq., C.E.	1	5	0
Hutton, T. O., Esq.	2	2	0	Martineau, Miss	1	0	3
I'Anson, Dr.	1	1	0	Mathew, Mrs.	2	2	0
Ingram, Colonel, C.B.	1	0	0	Mathews, W. Esq., C.E.	1	1	0
Iveagh, Rt. Hon. Lord	1	1	0	Maw, C. T., Esq.	1	1	0
Jackson, Lady	1	1	0	Mawley, E., Esq.	1	2	0
Jenkin, S. W., Esq., C.E.	1	0	0	Meares, J. L. D., Esq., C.E.	1	0	0
Jenkins, Lady	1	0	0	Mellish, H., Esq.	2	10	0
Jersey, The Rt. Hon. the Earl of	1	0	0	Melville, A. H. Leslie, Esq.	1	1	0
Johnston, Miss	1	1	0	„ A. S. Leslie, Esq.	1	0	0
Jones, F. A., Esq., C.E.	1	1	0	Metcalfe, T. T. S., Esq.	1	10	0
Jones-Balme, F. M. T., Esq.	1	0	0	Mitchell, Alexander, Esq.	2	2	0
„ Mrs. Jay	1	1	6	„ F. J., Esq.	1	6	0
„ W. H., Esq.	1	1	0	Moore, Sir J. W., M.D.	1	0	0
Jordan, Dr. F. W.,	1	1	0	Morrison, W., Esq.	2	0	0
Kay, Sir Brooke, Bart.	1	5	0	Morton, The Countess D. of	1	1	0
„ D. J., Esq.	2	2	0	Mossman, R. C., Esq.	1	1	0
Kennedy, J., Esq.	1	0	0	Mostyn, C., Esq.	1	1	0
Kenyon-Slaney, Colonel, M.P. ..	1	0	0	Mount, Rev. C. B.	1	0	0
Kettlewell, W. W., Esq.	1	0	0	Murray, H. B., Esq.	1	1	0
King, J., jun., Esq.	1	10	0	Myers, W. H., Esq., M.P.	1	1	0
„ S., Esq.	1	0	0	Mylne, H. C., Esq.	1	1	0
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Kitchin, Mrs. T. M.	1	1	0	Newman, T. P., Esq.	1	1	0
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THE ILKLEY FLOOD OF JULY 12TH.

By H. R. MILL, D.Sc., LL.D.

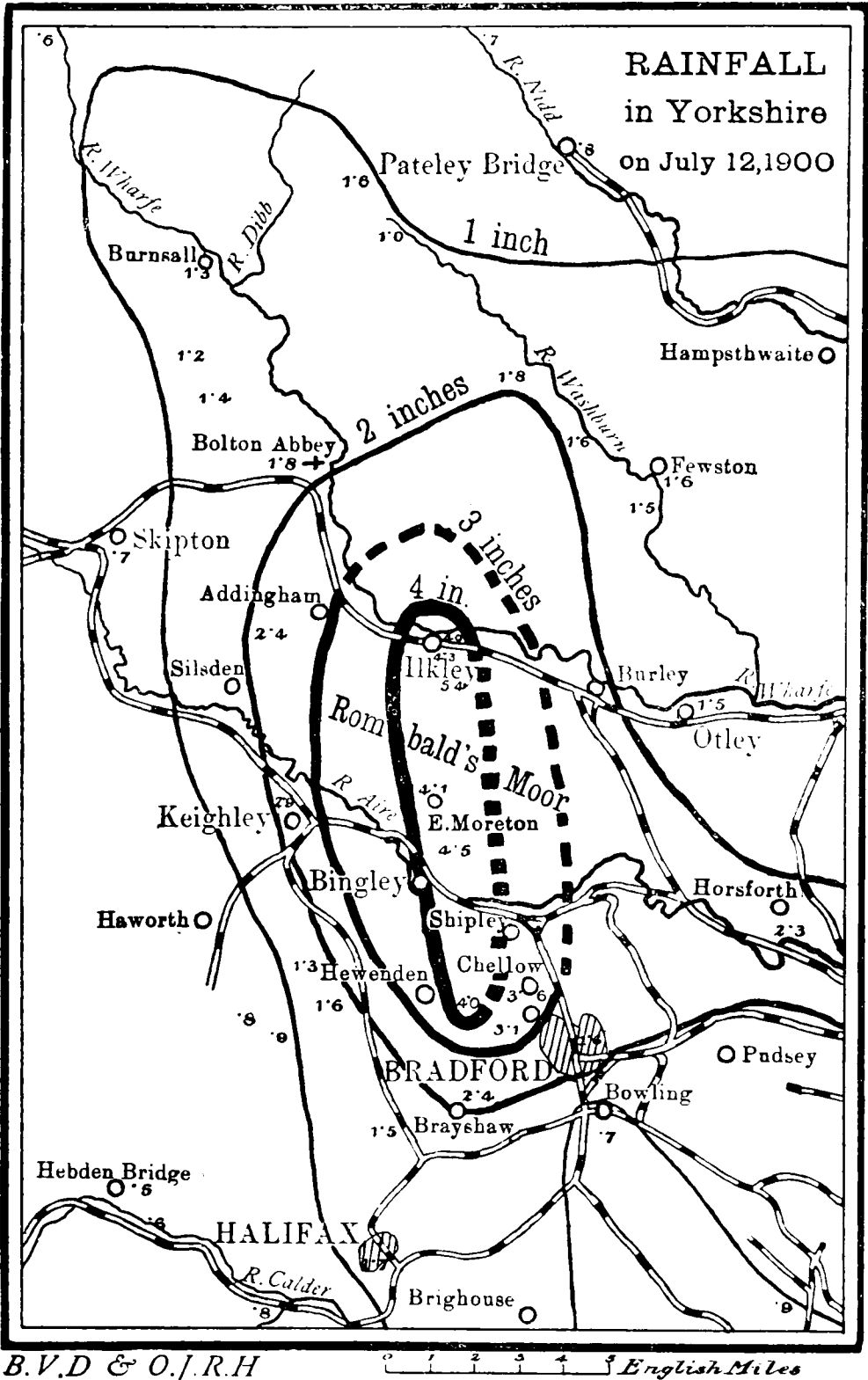
THE very heavy rain which fell in central Yorkshire during a thunder storm on July 12th produced floods in several of the towns in the area affected and wrought devastation in the well-known health resort of Ilkley to an extent that has rarely been exceeded. Ilkley lies on the south side of the river Wharfe, which is about 220 feet above sea level where it passes the town, and the houses extend up the side of the valley on the slopes of Ilkley Moor to a height of 700 feet above the sea. The moor is part of the great stretch of wild upland known as Romble, or Rombald's, Moor, which separates the valleys of the Wharfe and the Aire and rises along a central ridge $1\frac{3}{4}$ miles south of Ilkley to a height of 1323 feet. From this moor four small streams flow northwards through Ilkley, the largest (it is only a mile and a half long) being the Spicey Gill, or Parish Gill Beck, which runs through the middle of the town. The Keighley road coming over the moor from the south-west crosses this stream by a bridge at a point about 700 feet above the sea and runs obliquely down the slope towards the east. Two hundred yards further down stream the Parish Gill Beck is carried in a culvert under Westwood Drive, running east and west at the level of about 570 feet; one hundred yards further down, the stream runs under another east-and-west road, and one hundred yards further under Queen's Drive. The insignificance of the brook in ordinary circumstances is sufficiently indicated by the use of culverts rather than bridges where it is crossed by roads. Between Westwood Drive and the road immediately to the north, Cherry Bank stands on the left bank of the stream, and a rain gauge is placed 100 yards from the beck, at an elevation of 600 feet above sea level and 1 foot 3 inches above the

ground. It registered 5·40 in. on July 12th. On the right bank of the stream, opposite Cherry Bank, the grounds of Hollybrook border the beck. A rain gauge is also kept at Eaton Road, 550 yards north of Cherry Bank and on the same side of the beck. This gauge is 360 feet above sea level and 1 foot above the ground, and it registered 4·26 in. on the 12th. A third gauge is kept in Brook Street, rather more than half-a-mile north-east of Cherry Bank, 312 feet above sea level, and although it is 20 feet above ground, it registered 4·01 in. on the day of the storm.

A rainfall exceeding one inch in the twenty-four hours was measured over an area of 1000 square miles in Yorkshire and Derbyshire on July 12th, the western boundary being sharply marked and extending almost due north and south, not far from the meridian of 2° W., from near Arncliffe in the north, passing near Skipton, Halifax, Huddersfield, Glossop and Buxton, to a point west of Derby. The breadth of this storm area averaged about fifteen miles, as it extended to Matlock, Sheffield and Harrogate on the east. A rainfall exceeding two inches was measured over a somewhat irregular area of about 150 square miles, extending from twelve miles south-east of Leeds to five miles north-west of Ilkley. Within this area falls of more than three inches must have occurred over about 60 square miles in a narrow ellipse running from Bradford through Keighley on the west, but on the east the boundary could not be defined on account of the absence of rain gauges in the immediate vicinity. The central area of heaviest rain was a narrow strip perhaps a mile and a half wide, running for nine miles almost due north from Chellow Dean, three miles west of Bradford, to Ilkley, where more than four inches was recorded at five stations and more than five inches at one, while there is reason to suppose that a cloud-burst took place on Rombald's Moor with a still heavier fall.

The heaviest falls are given below, arranged in order of magnitude, while on the accompanying sketch-map they are shown in their proper positions, though the figures are rather small.

The map shows the chief rivers, towns and railways of the district, the railways being shown by double lines connected together at intervals. The important features are the lines enclosing the areas within which more than 1 inch, 2, 3, or 4 inches of rain fell. Where data are wanting, these lines are broken.



Rainfall on July 12th, 1900.

	in.
Ilkley, Cherry Bank	5·40
„ Amblesforth	4·50
Bingley, Gilstead Filters.....	4·50
Ilkley, Eaton Road	4·26
Bingley, Sunnydale	4·12
Ilkley, Brook Street	4·01
Bradford, Chellow Dean Reservoir	4·00
„ Heaton Reservoir	3·63
„ Manningham Lodge	3·11
Pudsey	3·06
Shipley, Moor Head	2·97
Keighley, The Knowle	2·86
Ilkley, Hollingley	2·81
West End, Rocking Hall.....	2·70
Fewston, Timble Ings	2·55
Leeds, Wortley Reservoir	2·54
West End, Hard Ing	2·46
Leeds, Holbeck	2·44
Skipton, Silsden	2·44
Bradford, Brayshaw Reservoir	2·43

It seems probable, from the way in which the damage at Ilkley occurred, that there was a vast and sudden precipitation of rain over the moor immediately above the town, and that the water ran off the entire breadth of the land as off a roof, the streams not sufficing to carry it away fast enough. The result was that every road was turned into a watercourse, and the torrents which swept through the steep streets of the town could not be stemmed, in some cases even by horses, for several hours after the worst of the rain had passed.

The circumstance that the area of heavy precipitation was a narrow band running from north to south led to the resulting surface water being shared by the Aire and Wharfe, and as both streams were very low at the time, they did not produce serious flooding in the lower parts of their course. Had the rain fallen entirely in the drainage area of one river, the damage must have been much more serious.

The actual rate of fall can be calculated from the measurements of Mr. Worfolk at Brook Street, Ilkley, who recorded 3·75 in. in one hour and a quarter, between 2 p.m. and 3.15 p.m.—*i.e.*, a rate of 3·00 in. per hour—an intensity never before recorded in this country as having been maintained for so long a time.

The appearance of the storm is vividly described by a local working man, who told a correspondent that “the clouds seemed to come down until touching the lamp-posts and then poured out solid water.”

The storm appears to have begun in the west about noon, but its full fury was reached on Rombald's Moor between 2 p.m. and 3 p.m.

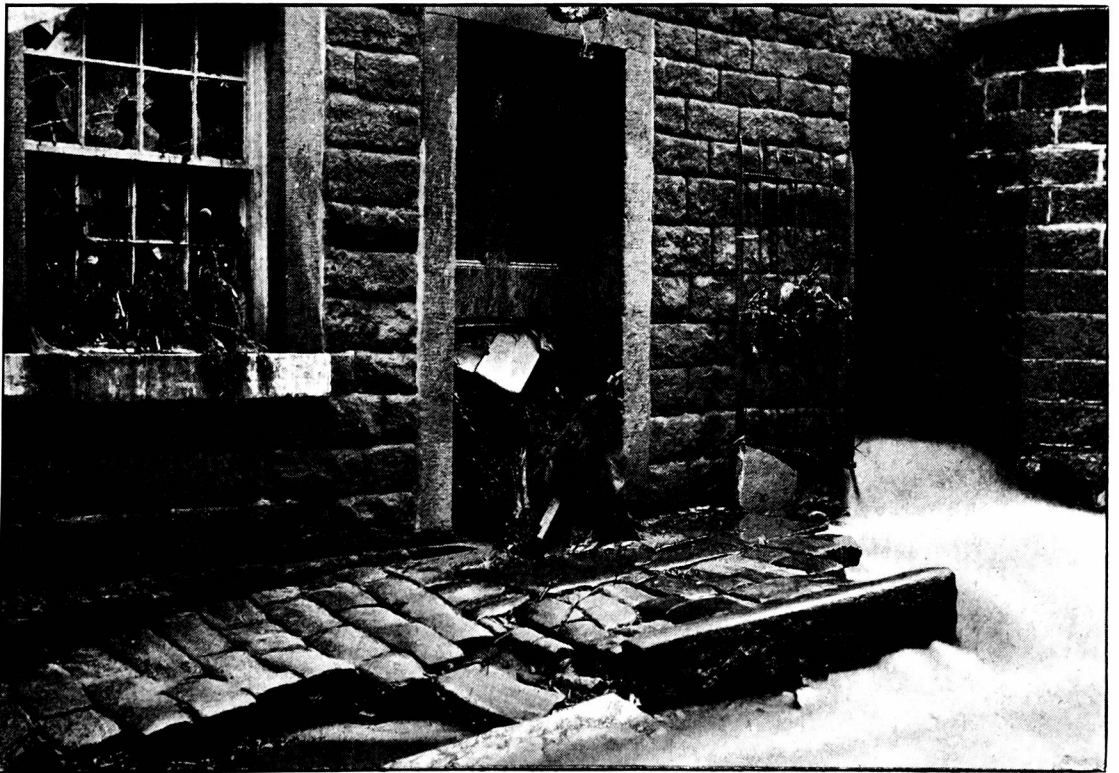
Mr. A. Wilson, of Eaton Road, Ilkley, sent an early notice of the storm and the destruction wrought by it to the *Meteorological Magazine*, where it was published in August, 1900 (Vol. 35, p. 97), and he has since supplied additional information and a collection of newspaper cuttings from which the following brief account has been compiled. To Mr. Wilson we owe the striking photograph of a house wrecked by the flood which forms our frontispiece. The water apparently filled up the rooms on the ground floor and the weight of accumulated water burst the corner of the house outwards. Two other photographs taken by the same correspondent are also reproduced. The upper one shows the destruction in Hollybrook Garden, the lower vividly portrays the severity of the storm for although it was taken on the following day a strong stream of water is seen still flowing through the house.

It must be remembered that while only a few points are selected for special notice, the washing of the surface of the ground, the ploughing up of the roads, bursting of culverts, destruction of bridges, and accumulation of silt and boulders in gardens and houses took place all along the slope of the side of the moor, above and in Ilkley, and also to no less an extent on the southern slopes of the moor near Morton. Taking the Parish Gill Beck alone, the first bridge where the Keighley road crosses it, was carried away, and hundreds of tons of masonry and boulders were scattered over the adjacent roads, some parts of the Keighley road being covered to a depth of four feet by boulders, carried down from the moor, the largest of them measuring 4 ft. \times 3 ft. \times 3 ft., and weighing several tons. The whole of the valley of Spicey Gill above this point, though barely a mile in length, was completely changed, some parts of the deep narrow ravine were hollowed out, and greatly enlarged, while other parts were blocked up with the accumulated rubbish, and the stream was diverted. This must have been in large measure the direct work of the falling rain, as the gathering ground above the bridge which was destroyed measures less than one square mile. Where Westwood Drive crosses the beck, the water, rushing from the moor above, broke away the walls enclosing the grounds of Hollybrook, and rushing through the garden turned it into a chaos of smashed trees, and ploughed up walks, mixed and covered with boulders carried down from the moor (see the photograph). Most of

THE ILKLEY FLOOD OF JULY 12, 1900.



Destruction in Hollybrook Garden.



In Chapel Lane—Taken the day after the Storm.

the culverts through which the stream passes soon became blocked with rubbish, and caused the flood to accumulate until it forced a passage by cutting through the roadway. All along the course of the beck, and of the roads parallel to it, the same desolation was wrought, the ornamental trees lining the roads were either broken across, or their bark, and sometimes even the wood battered off by the stones swept along in the torrent. Lamp-posts were snapped across, and when the storm subsided trenches, many feet deep, were found to have been hollowed in the roadway. The bed of the stream itself was deepened five or six feet in the few hours during which the flood lasted. Where the beck passed under St. James' Road, the blocked culvert diverted the flood waters through a garden, which is described as being entirely washed away, and the next culvert lower down escaped a blockade, but burst up where it passes under Grove Road, and half the road-way fell in. Where the beck enters the central part of Ilkley it runs along the back of the houses in Chapel Lane. The cottages in the lane were flooded, the water pouring straight through the houses from back to front, filling the lower rooms up nearly to the ceilings, and sweeping much of the furniture into the street, leaving behind a mass of mud and filthy *débris*, which rendered the buildings uninhabitable. A local newspaper thus describes the condition of the cottages :—

“To stoop and inspect these interiors is to have an impression of civilised cave-dwellers. It is necessary to stoop, for the mud which has filled the kitchens is banked high outside the vacant squares where windows should be. Then you may see a kitchen dresser or a cupboard lying on the floor, or rather on the mud, for the floor is some feet below, and not many inches above the mud you may observe everything in its place on the mantelpiece as though miraculously surviving an earthquake. In one kitchen you may see by stooping, and then looking up, an eight-day clock still placidly ticking on the wall, whether the hours be serene or not. Outside in the Lane the unlucky householders and their friends were busy during the following days getting as much mud as they could off articles that had been recovered, and may yet be of use, and sightseers, mostly women, were busy also getting as much mud as they could not help on to their dresses, in the endeavour to enter some of the submerged kitchens—victims of idle curiosity.”

At 4 p.m. the swollen beck washing against the wall of Mr. Brogden's coach-building shop in Bolton Bridge Road, on the opposite side from

Chapel Lane, caused a sudden collapse of the building, in which Mr. Brogden, junior, having delayed his escape for a moment in order to warn the workmen out of their workshop, was killed by the falling roof. So sudden was the catastrophe that it seemed at first more likely that the house had been struck by lightning, but this appears not to have been the case.

Further down the stream, in Back Myddleton Road, similar damage was done, and our frontispiece shows one of the results. A local newspaper says :—

“ Some idea of the enormous quantities of boulders, sand and mud brought down from the moors and deposited in some of the houses may be gathered from the fact that out of Mr. Curwen’s house alone, at the bottom of Church Street, no less than thirty tons of rubbish were removed, while seventy-two loads of similiar material were carted away from the low-lying side-walk at the front.”

Wray’s Pleasure Gardens are situated on the flat ground where the Parish Gill Beck enters the Wharfe, and they were for some time entirely under water, the buildings being flooded. Everything was left covered with a layer of black mud from a foot to eighteen inches deep. The immense volume of detritus carried into the Wharfe built out a sandbank along the river front of the gardens, considerably modifying the course of the stream.

It would serve no useful purpose to follow the destruction caused along the other becks, or in the intervening streets. All were affected in the same way, if not always so seriously. Considering the extent of the disaster, it is amazing how little was known of it beyond the immediate neighbourhood. But if the impetuosity of the Yorkshire storm-water caused the damage in an incredibly short time, the sturdy independence of the Yorkshire character met it with the self-reliance and energy which were to be expected. Within a week, measures had been taken for restoring everything, and for reducing the risk of damage in any subsequent storm. The total damage to public property was officially estimated at £11,000 ; that to private property must have been very much greater, and the local newspapers spoke of £100,000 as no excessive estimate of the damage done in this one small town by the rain of a summer afternoon.

THE DEVELOPMENT OF RAINFALL MEASUREMENT IN THE LAST FORTY YEARS.

BY H. R. MILL, D.Sc., LL.D.

NEW observers, who are each year taking the place of some older workers in collecting the records which are published in "British Rainfall," may sometimes wonder why certain rules are laid down with a definiteness that is almost peremptory. They may never have had occasion to look through the forty earlier volumes, or to follow out the long series of experiments and discussions on which the rules for observing rainfall are based. Hence they may not realise that when Mr. Symons issued his "English Rainfall, 1860," he had not only to organize a body of observers, but also to investigate the whole question of the instruments and methods to be employed. The various steps of the researches are detailed in the first part of the annual volumes, where the special observations initiated by Mr. Symons are fully described, and reference is made to the more general discussions in the "Meteorological Magazine" and to the results of work published abroad.

It is important that this early work should not be forgotten; because it was fundamental, and upon it all our practical methods are based. It is also remarkable on account of the ability with which the experiments were planned, the conscientiousness and perseverance with which they were carried out, and the simple and lucid manner in which the conclusions are stated, Mr. Symons's work from the very beginning being of that order which it is usual in scientific literature to designate as classical; that is, it was permanent, capable of being added to and developed, but never likely to be overturned or rendered obsolete. Some of the experimental work, it is true, is still unfinished and some—such as the study of evaporation—developed unexpected difficulties which could not be overcome at once; but, looked at as a whole, the forty volumes of "British Rainfall" form a mine which will be worked long by the student of observational meteorology before it is exhausted.

We give, at the end of this article, a list of the principal subjects which have been treated, forming a rough subject-index to "British

Rainfall." Of these we propose to deal in some detail with the researches which justified the adoption of the five-inch Snowdon gauge, with its rim 1 foot above the surface of the ground, as the standard for rainfall work in this country.

Mr. Symons commenced experimenting with gauges of various materials in the year when he began the rainfall work, and at his instance experimental gauges were set up in different parts of the country. In 1863, Major (afterwards Colonel) Ward erected a set of gauges at Castle House, Calne, in Wiltshire, designed to test the effect of size of aperture of the gauge and height above ground on the amount of the catch. In the same year a somewhat similar set of elevation gauges was established at St. Martin's, Castleton Moor, near Manchester, by the Rev. J. Chadwick Bates. In 1865, Mr. R. Chrimes set up the most elaborate series of experimental rain gauges ever brought together, on the flat roof covering the Boston Reservoir, at Rotherham, Yorkshire, his object being to investigate the effects of altitude above the ground, of exposure with reference to the actual direction of the wind, and also of the angle at which the mouth of the rain gauge is set with regard to the horizon.

In 1866, the Rev. T. E. Crallan commenced observing with a series of gauges of uniform aperture but composed of different materials, which he set up at Framfield Lodge, Hurst Green, Sussex; and after using them for about a year, he handed them over to the Rev. C. H. Griffith, of Strathfield Turgiss Rectory, near Reading, a remarkably enthusiastic and persevering observer. To him also were sent the experimental gauges with which Mr. Symons had been working since 1863; and early in 1868 Colonel Ward left Calne and sent his whole set of gauges to join the great assemblage at Strathfield Turgiss. Experimental gauges at different elevations were established at Aldershot in 1869, and placed under the charge of Sergeant Arnold.

On the conclusion of the Strathfield Turgiss experiments in 1870, it was considered desirable to repeat some of them in a rougher climate, and the Rev. F. W. Stow, of Hawsker, near Whitby, having undertaken to observe with the rain gauges in an exposed situation on the Yorkshire upland, facing the sea, they were handed over to him for that purpose.

In 1872, the first series of the Rotherham experiments came to an end, and in 1875 the entire set of gauges was presented by Mr. Chrimes to the Rotherham Corporation and removed to the retaining

bank of the Ulley Reservoir, where they were re-erected in order to test the effect of a different position.

In 1877, Mr. George Dines commenced a series of important experiments with rain gauges of different sizes and in different positions on the summit of a tower. This led to a discussion of previous observations in similar positions ; and in 1881 the general conclusions of the whole series of observations at all the places of observation were summarized.

In 1882, the second series of Rotherham observations came to an end, and certain anomalies having been observed in the readings at different heights, it was arranged to cut down the high gauges to a uniform height of 5 ft. and set them out at equal intervals along the bank in order to investigate the cause ; and in 1883 this was done, and the third series of observations commenced. This final set was practically completed in 1890, as the gauges, after nearly continuous service for eighteen years, were almost worn out, but not before yielding results of high scientific and practical interest.

The whole of the work may now be considered under the heads of Material, Size and Form, Exposure and Elevation.

MATERIAL OF RAIN GAUGE.

The material of which the funnel is composed requires to be smooth of surface, unalterable by weather, and not easily broken or deformed. Glass or earthenware when quite smooth were found to be perfectly serviceable ; but they were too readily broken, and if the surface were irregular or fluted it was found that some water was retained, and evaporated without reaching the receiver. The best material for the funnel was found by the experiments at Framfield and Strathfield Turgiss, to be ebonite, as it is both smooth and inalterable ; but ebonite funnels were costly and never got beyond the experimental stage. Copper came next in value, as the surface assumes a permanent condition, and after the thin skin of oxide is formed it does not change. Experiments in the pure air of Hawsker showed that zinc was equal to copper, but in towns or manufacturing districts, exposed zinc does not long retain a smooth surface. The experiments showed conclusively that any sort of painted surface was inadmissible ; the paint cracks and softens, becoming rough and spongy, and absorbing a considerable quantity of water.

It may, however, be noted that some substances are now available which were unknown, or at least, not thought of, 40 years ago.

Amongst these are pure nickel, enamelled iron, celluloid, in one or other of its many forms, and the modern enamel paints. It might be possible to find amongst these a cheaper substance than copper ; but it would be very hard to find anything better.

The material of the outer case of the gauge is unimportant, except with regard to durability, and here again copper is hard to beat. From precautionary motives the rain-water is best collected in a bottle placed within a metal bucket, the object being to guard against loss by the breakage of the vessel, and to reduce the risk of loss by evaporation, which, even in gauges read monthly, is quite insignificant when the tube of the funnel is narrow and does not dip into the water.

SIZE AND FORM.

The effect of using rain gauges of different size has been very fully investigated, and with the most satisfactory results. Colonel Ward had a series of gauges of 1, 2, 4, 5, 6, 8, 12 and 24 inches in diameter, all placed with their rim one foot above ground, and read daily for four years. The result was that if the rain caught in the 24 in. gauge be taken as 100, the others were found to read as shown below :—

Diameter of gauge, inches	1	2	4	5	6	8	12	24
Reading of gauge ...	93	96	100	99	102	102	100	100

This shews that except for extremely small gauges, the differences due to size never exceed 2 per cent of the total rainfall recorded.

In his experiments at Strathfield Turgiss, Mr. Griffith proved conclusively that a sloping flange round the rim of a rain gauge increased the amount of rain caught, by the drops falling on the windward side of the gauge splashing into the funnel. Other observers came to the same conclusion from their experiments, and thus the necessity of a sharp vertical rim was recognised.

Mr. Griffith got results almost identical with those of Colonel Ward on the effect of size of funnels, except that by taking exceptional precautions to keep the smaller funnels perfectly horizontal, he found the 2 inch gauge to give as high a reading as the larger ones. His conclusion was that the size of the funnel made absolutely no difference in the amount of rain measured ; but that the 24 inch gauge read somewhat in excess of the others because of a greater condensation of dew on its large surface, while the very small gauges required exceptional care, because of the difficulty of keeping the

funnels exactly level, and the even greater difficulty of measuring accurately the very small quantity of water they contain.

Mr. Stow, at Hawsker, came to the same conclusions as regards the size of funnels. The only question that now remains of any practical importance is the precise relation between the catch of a 5 inch and an 8 inch gauge, in normal conditions. It seems certain that the difference between the readings of the two is well under 2 per cent., but we may return to this matter on a subsequent occasion. The practical conclusion of the whole matter is that the size of rain gauge to adopt as a standard is to be decided merely by convenience in measuring. One that does not collect an embarrassingly large, or an inconveniently small volume of water per inch of rain, is the best; and the 5 inch gauge appears to be that which gives the most satisfactory practical results.

EXPOSURE AND ELEVATION OF GAUGES.

Questions of exposure and elevation are so closely connected that it is difficult to consider them apart, and as they are the most important factors in securing uniform and comparable measurements of the fall of rain, they have been made the subject of many long series of laborious experiments, the real meaning of which has not been arrived at without lively, and sometimes heated, controversies. While we refer here merely to the work recorded in the forty volumes of "British Rainfall," the reader may rest assured that this epitomizes all that is of importance in throwing light on the subject.

The results of the four years' work at Calne and of the three years' work at Castleton were very concordant, the values for gauges elevated on poles being:—

	8 inch gauges.			5 inch gauges.		
	1 foot.	5 feet.	20 feet.	1 foot.	5 feet.	20 feet.
Calne, 4 years ...	100	97	94	100	—	94
Castleton, 3 years...	100	96	90	100	94	89
Average ...	100	96·5	92	100	—	91

In other words, these experiments showed that, for an increase of 20 feet in elevation, the amount of rain caught by a rain gauge was reduced by 8 or 9 per cent. When the readings of particular months, and still more of particular days, are considered instead of the averages of long periods, the discrepancies which appear are so large that it is clear some variable influence is at work, which causes now a larger, now a smaller, loss of rain in the high gauges, as

compared with the lower ones. This variable influence was proved to be wind.

When the rain gauges were sent to Strathfield Turgiss in 1868, they were arranged at the heights of 1 foot, 3 feet and 20 feet, the two latter on poles in an open situation ; in addition to which, one at 11 feet was placed at the lower end of the slope of a barn roof, one at 16 feet half-way up the slope on the opposite side of the barn, and one at 23 feet on the ridge of the roof. Two gauges at 29 and 39 feet respectively were placed on the roof of the Rectory. The readings of the pole gauges agreed closely with those obtained by Colonel Ward, but the roof gauges were extremely variable, their readings depending almost entirely on the wind. The average for the three years was:—

1 foot.	3 feet.	20 feet.	23 feet, Barn roof.	39 feet, House roof.
100	95·8	92·8	77·4	73·8

The difference between the amount of rain collected at 20 feet on a pole, and that at 23 feet on the roof of the barn, is particularly noticeable.

When the gauges were removed to Hawsker, special attention was given to the variations in the amount of rain caught with regard both to height and to position, and as the preliminary results of the experiments at Rotherham had been published, several additional experimental gauges of the type employed there were added in order to test the effects at different elevations, on gauges the mouths of which were exposed at different angles. For gauges with horizontal mouths, the result showed a very slight difference between the readings of a gauge at 1 foot and one level with the surface of the ground, but surrounded by a pit, so as to prevent the possibility of rain splashing into it from the ground. The excess in the readings of gauges within a few inches of the ground over those at 1 foot was thus shown to be simply the result of the excess of in-splashing over out-splashing. With regard to the conditions at greater heights, an arrangement was made by which a gauge with its orifice vertical, mounted on a large vane, so that the opening always faced the direction of the wind, was set up together with a horizontal gauge at 1 foot, 5 feet and 10 feet. The result of the observations showed that at the greater heights the vertical-mouthed gauge facing the wind caught more, in the same proportion as the horizontal gauge caught less. In other words, it was shown that at higher elevations the falling rain made on the average a greater angle with the vertical than near the ground, and that the increasing obliquity

of the direction of rainfall with height accounted for the diminishing quantity of rain caught in a horizontal gauge.

The position series of gauges at Hawsker was arranged so as to test a variety of exposures, and the results were discussed with reference to the direction of the wind. It was shown that a gauge placed on the top of a little hill caught much less than one placed in the middle of the adjacent valley, or in a sheltered garden. A gauge placed on the slope of the hill facing the north caught much less with north winds than with south winds. In other words, the rainfall on the leeward side of the hill as measured in the gauge was greater than that on the windward side. The most interesting result was obtained with a rain gauge set close to the edge of a lofty cliff which fell abruptly to the sea. This gauge caught 91 per cent. of the the amount caught in the valley when the wind was blowing from land, but only 62 per cent. when the wind was blowing from the sea.

Mr. Stow, arguing on these observations, pointed out that the wind as it blew over the land varied in its effect on the direction of rain according to the influence of obstacles or the form of the surface of the ground upon it. He showed that a house or a cliff, or even the more gentle slopes of the side of a hill, gave rise to eddies in the air with ascending and descending currents moving at various angles to the horizon. He argued that descending currents of air must increase the catch of rain in gauges at 1 foot more than that in gauges at higher levels, while ascending currents must diminish the catch of the higher gauges more than that of the lower ; and thus that the vertical component of the wind, apart from its velocity, must tend to produce a smaller catch of rain in gauges raised above the surface of the ground.

It is, however, to the first series of Rotherham experiments, which extended over the eight years from 1865 to 1872, that we owe most of our exact knowledge regarding the influence of the force and direction of the wind on rain gauges elevated on poles. Mr. R. Chrimes, of Rotherham, bore the expense of the experimental gauges, secured a level and unobstructed site for their exposure on the flat top of a large reservoir, and superintended the whole series of observations. The plan of the work was suggested to Mr. Symons at the meeting of the British Association at Birmingham in 1865, and the gauges ultimately erected were as follows :—

(1.) *A five-funnelled gauge*, or rather a group of five gauges, one horizontal, the other four with vertical trumpet-shaped mouths, one

facing each of the cardinal points (Fig. 1). The object of this apparatus was to estimate the angle at which the rain fell both in altitude and azimuth by comparing the amount caught by each funnel. Thus, if the rain fell vertically, the horizontal gauge would catch all; the others none. If the rain fell at an angle of 45° from the west the vertical gauge facing west and the horizontal gauge would catch an equal amount, the others none; and so on.

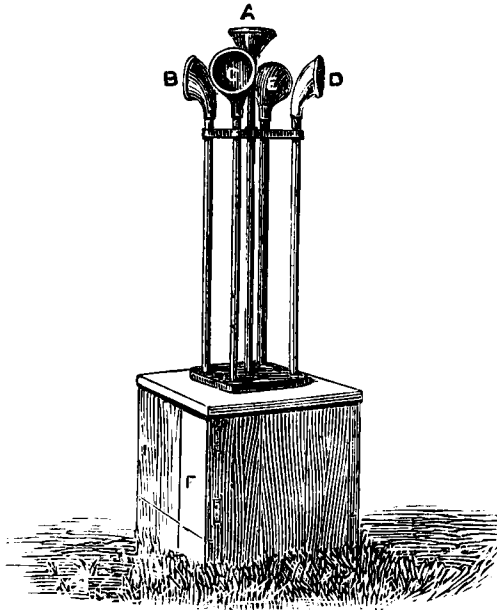


FIG. 1.—FIVE-FUNNELLED RAIN GAUGE.

(2.) *Inclined gauges.*—Four gauges were constructed the mouths of which were inclined respectively $22\frac{1}{2}^\circ$, 45° , $67\frac{1}{2}^\circ$ and 90° to the horizon, and each was mounted on a vane so as always to face the wind.

(3.) *Tipping gauge.*—In order to collect the maximum amount of rain possible, a gauge was constructed which should always face the wind, and automatically alter the angle made by the plane of its mouth with the horizon so that the wind should always be at right angles to the mouth of the funnel. A vane sufficed to make the gauge face the horizontal direction from which the wind came, but elaborate mechanism was required to ensure that the gauge should tip so as to adjust itself in altitude and allow the funnel to look straight into the eye of the wind. Fig. 2 shows two views of this gauge, the various parts being lettered so as to correspond.

(4.) *Altitude series.*—Two gauges—one read daily, the other monthly—were placed with their funnels horizontal at 1 foot, and on poles at 5 feet, 10 feet, 20 feet and 25 feet above the ground.

All the gauges were of the same diameter, 5 inches, and measurements were made by weighing the water collected on a special balance graduated so as to read directly in inches to three places of decimals. Readings of a Robinson anemometer and of another anemometer of special design were taken daily in order to obtain the average velocity and direction of the wind.

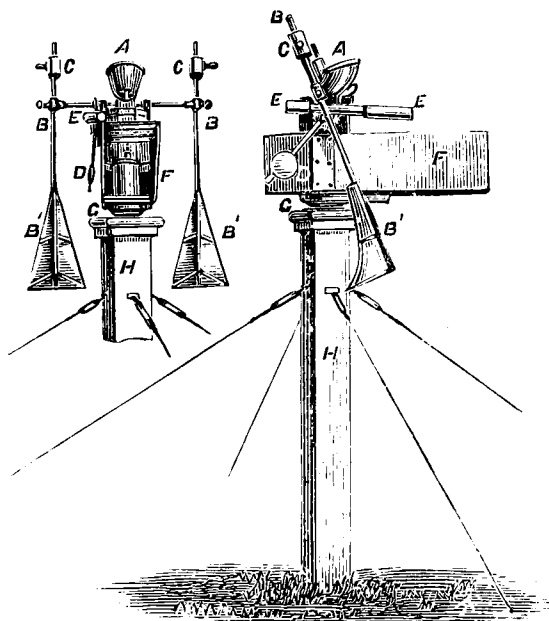


FIG. 2.—TIPPING-FUNNELLED RAIN GAUGE.

The result of the whole series of experiments proved conclusively that the diminution with height of the quantity of rain caught in horizontal gauges was due to the angle at which the rain fell, and that this angle depended on the velocity of the wind. The calmer the weather the greater was the rainfall at 25 feet in proportion to that at 1 foot, and in dead calm weather rather more rain was collected in the higher gauges than in the lower. Taking the fall at 1 foot as 100, that at 25 feet averaged 86·2; but when the monthly instead of the total averages are considered, it is found that in the windy month of March the reading was 78·0, and in the calmer months of June, July and August it varied from 91·0 to 92·0. The mean angle at which the rain fell was $38^{\circ} 16'$ from the vertical, varying from a mean monthly value of $57^{\circ} 42'$ in March, with

205 miles of wind per day, to $20^{\circ} 15'$ in July, with only 95 miles of wind.

The following were the final results of analyzing the proportion which the rain caught at 25 feet bears to that caught at 1 foot according to the angle at which the rain fell :—

Angle of rain	0° — 35°	35° — 40°	40° — 75°
Wind, miles	104	144	187
Rain, percentage at 25 ft. ...	90	89	79

In winter and spring rain was found to drive rather than fall : in summer it fell more nearly vertically.

Meanwhile observations had been going on at Aldershot, under the charge of Colour-Sergeant Arnold, at the expense of some of the military officers interested in meteorology. These observations lasted from 1869 to 1874, and consisted of readings of horizontal gauges at ground level, 6 inches, 3 feet, 6 feet, 12 feet and 25 feet, and of two gauges with their funnels inclined at 45° to the horizon and mounted so as to face the wind, one at 6 feet, the other at 30 feet. The six years' average of the inclined gauges was identical, showing that just the same amount of rain actually fell at 30 feet as at 6 feet ; but the results in the horizontal gauges showed a steady diminution at the rate of 1 per cent. per foot. As there was no gauge placed at 1 foot in this series, it is difficult to compare the fall at that height with the others, but in the following table the Aldershot results are reduced to a comparable form by two methods.

Comparison of Rainfall at different Heights.

Height	0	6 in.	1 ft.	2ft.	3ft.	5ft.	6ft.	10ft	12ft	15ft	20ft	25ft
Calne (4 years).....	107	102	100	99	—	97	—	—	—	—	94	—
Castleton (3 years)	—	—	100	—	—	94	—	—	—	—	89	—
Strathfield Turgiss* (3 years)	—	—	100	—	96	—	—	—	—	—	93	—
Rotherham (8 years)	—	—	100	—	—	94	—	91	—	90	89	88
Aldershot† (6 years)	105	102	—	—	99	—	96	—	89	—	—	76
„ ‡ („)	102	101	100	99	98	95	94	91	88	85	80	75

* Pole gauges only. † Taking fall at 6 in. = 102. ‡ Calculating from curve, fall at 1 ft. = 100.

The agreement of all the observations up to 15 feet is surprisingly close, for the Rotherham observations leave no room for doubt that the diminution of rainfall with height is proportional to the strength of the wind, and we should hardly have expected that the average strength of the wind would have proved so nearly alike at widely separated stations. The disparity between Rotherham and Aldershot at 25 feet is not easy to explain. It is curious that on a freely-exposed pole the Aldershot gauge caught no more than that subject

to the capricious air-currents of the barn or house roofs at Strathfield Turgiss. If a curve (Fig. 3) is drawn freehand through the points showing the relation of diminution of rainfall with increase of altitude, it indicates as the nearest approach to mean values the following ratios :—

Height	0	6 in.	1 ft.	2 ft.	3 ft.	4 ft.	5 ft.	6 ft.	7 ft.	8 ft.	9 ft.	10 ft.	11 ft.	12 ft.	13 ft.	14 ft.	15 ft.
Fall ...	104	101.5	100	98.7	97.2	96.0	95.0	94.1	93.5	92.7	92.0	91.2	90.6	90.0	89.2	88.6	88.1

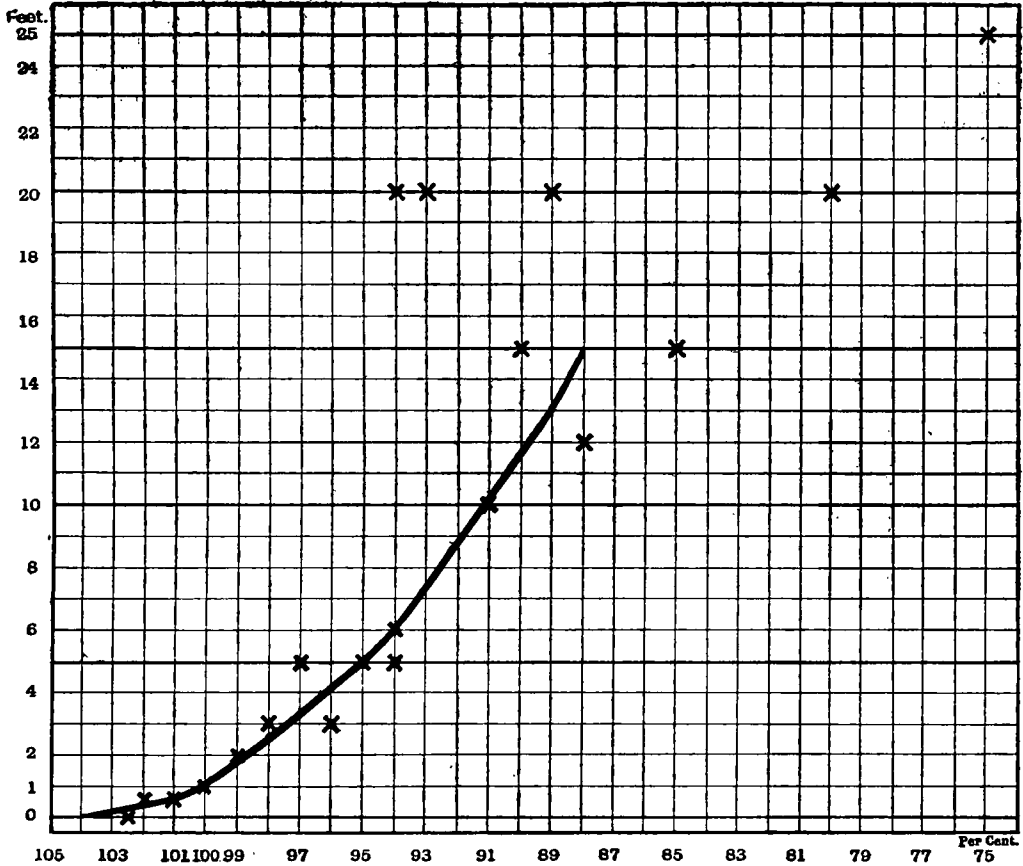


FIG. 3.—CURVE SHOWING PERCENTAGE OF RAINFALL CAUGHT BY GAUGES AT VARIOUS HEIGHTS ABOVE THE GROUND.

Above 20 feet the data appear to indicate local differences, probably due to the strength of the wind, that make the comparison of averages useless; but possibly the comparison of readings for the same average wind-velocities might lead to harmonious results.

The second series of Rotherham observations was made to test the effect of a different locality. The instruments were set out in a line along the retaining embankment of the Ulley reservoir, which crosses a shallow valley at right angles, the bank increasing in height

above the floor of the valley from nothing at either end to 54 feet in the middle on the north-west, while on the south-east the level surface of the water lay 5 or 10 feet below the level of the top of the bank along its whole length. The ratios of fall at each height to that at 1 foot were found to be as follows :—

Height	1 ft.	5 ft.	10 ft.	15 ft.	20 ft.	25 ft.
Fall.....	100	90·5	90·5	87·6	89·9	90·1
„ Series I....	100	94·2	90·8	89·8	88·6	87·8

These figures are very discordant with those of the first series of observations at Boston Reservoir, Rotherham, which are given in the third line of the table and in the continuous curve of Fig. 4 for comparison.

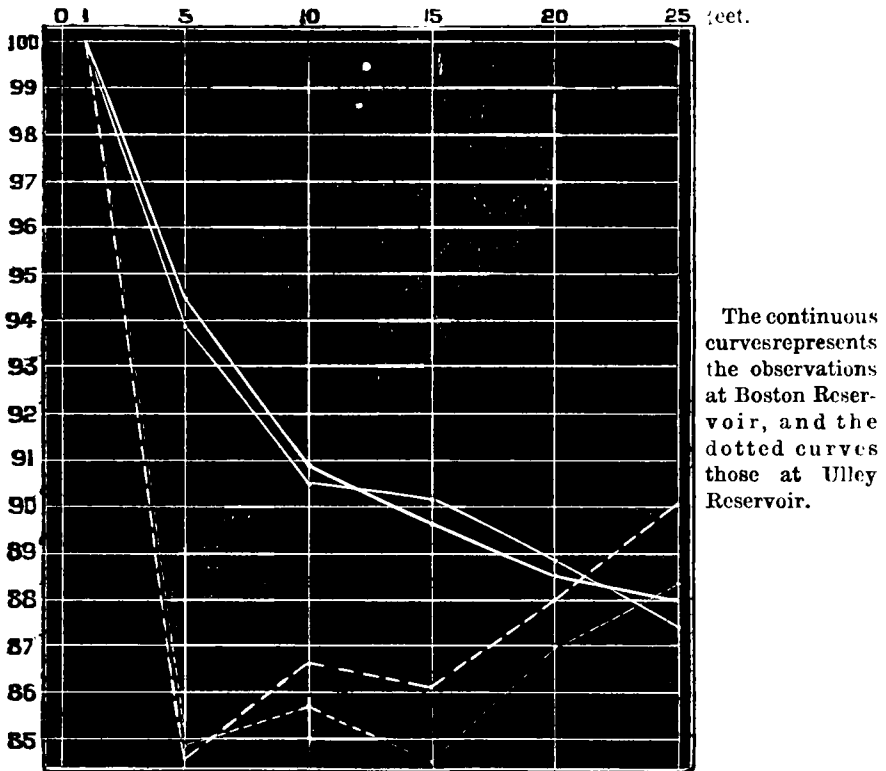


FIG. 4.—DECREASE OF RAINFALL, WITH ELEVATION, AT BOSTON RESERVOIR AND ULLEY RESERVOIR, ROTHERHAM.

On studying these results Mr. Symons came to the conclusion that the discordance must be due to the sweep of the wind over the bank, affecting the gauges between 5 and 15 feet, but not reaching those at 25 feet; and that the readings at the same level would be found to differ greatly according to the position of the gauges on the bank. He accordingly recommended that all the gauges should

be cut down to 5 feet, or 1 foot, and placed in pairs at regular intervals along the bank. This was done in 1883, and the third series of Rotherham experiments commenced with a gauge at 1 foot and one at 5 feet, set in a straight line along the bank, each pair of gauges being about 100 feet from the next. The outcome of five years' observations was to show that the pairs of gauges at each end of the bank gave identical results, while those near the centre showed readings about 5 or 6 per cent. less, the deficiency being roughly proportional to the elevation of the gauges above the valley floor. The result emphasized the conclusions drawn long before from the study of the irregular readings of gauges on roofs or walls, the bank acting like a great roof-slope. This may seem a small outcome for so elaborate, long-continued and costly a series of experiments ; but there is all the difference in the world between a caution as to the placing of rain gauges derived from a very probable supposition, and a caution based upon an actual demonstration such as that afforded by the Ulley Bank readings.

In 1877 Mr. George Dines took up the question of the difference of rainfall with height, exposure and size of gauge, fitting up a series of rain gauges on the roof of a tower attached to his house, Woodside, Hersham, Walton-on-Thames. The tower was 13 ft. 10 in. square, and it rose about 50 feet above the ground. He placed three gauges, each 24 inches in diameter, on this tower, each at a corner, a 5 inch gauge at the fourth corner, and a row of 5 inch gauges along one side of the parapet. The conclusions deduced from a very careful series of experiments, carried on for about two years, and discussed for each separate gauge in accordance with the direction and force of the wind, were as follows :—

(1.) One gauge only, placed upon a building, cannot be depended upon to give the amount of rain falling at the same elevation above the ground.

(2.) Of two gauges, somewhat similarly placed, that which is furthest removed from the windward side of the building will collect the most rain.

(3.) The greater the force of the wind, and the smaller the size of the raindrops, the greater is the amount of difference between the rain collected in a gauge upon the ground and one elevated above it.

(4.) On those occasions when there is no wind, the rain collected at an elevation of 50 feet is equal to that collected upon the ground.

The publication of these results called forth a considerable amount of discussion in the *Meteorological Magazine*, and recalled attention to a forgotten series of experiments carried out by Professor A. D. Bache, in Philadelphia, about 1833, which had yielded very similar results ; and after discussing the whole of the experimental work referred to in this article, Mr. Symons summed up as follows in "British Rainfall" for 1878 :—

"I venture to think that the terribly hard-fought battle respecting the reason that a smaller quantity of rain is collected by rain gauges elevated above the surface of the ground is nearly settled, for the following points seem proved :—

"The greater part of the decrease is due to wind.

"The stronger the wind, the greater the horizontality of the path of the rain, and the more horizontal the rain, the greater the decrease with elevation.

"Although the actual total falling at (say) 25 ft. above the ground may really be slightly less than that at 1 ft., the greater part of the decrease in the amount collected is due to the eddies produced by the rain gauge funnels, and by the buildings on which they are placed.

"The less the diameter of the elevated gauge the less will it indicate ; the larger the gauge, or the more it is protected from the direct impact of the wind, the more will it indicate.

"A gauge on the leeward side of a tower may collect as much rain as one on the ground.

"A gauge in the middle of a large roof may, notwithstanding its height, collect very nearly the same as one upon the ground."

The demonstration that the diminution in the catch of rain with increase of height above the ground depends on the force and direction of the wind alone, was so complete and incontrovertible that the discrepancies between the observed rate of decrease, with height at different places, ceased to be of any practical importance. Still a certain amount of interest attached to observations on very high buildings, such as towers and spires, and in 1880 and 1881 experiments were described which had been made at various times, with thirteen pairs of gauges at eleven different places, the scenes of the experiments, and the heights of the gauges are given in the following table, and diagrammatically in Fig. 5.

Station.	Position.	Date.	Height of Upper ft. Gauge, above ground.	Ratio of fall to that at lower gauge.
Boston	Church Tower... ..	1880-81	260	50
York	Minster Tower	1832-35	213	60
Wolverhampton .	Water Tower	1849-52	180	76
Derby	All Saints' Church Tower ...	1862	174	86
Chester	Shot Tower, E.	1878-80	160	70
"	" W.S.W.	"	160	69
Westminster ...	Abbey Tower	1776	151	54
Oxford	Radcliffe Observatory Tower	1870-79	112	61
Dover	Castle Keep, S.W.	1862-68	99	37
"	" N.E.	"	99	47
Dublin (Monkstown)	?	1861-66	90	66
Paris	National Observatory	1817-70	89	88
Whitehaven ...	St. James' Church	1844-53	78	72
Sheerness	Water Tower	1866-68	67	54

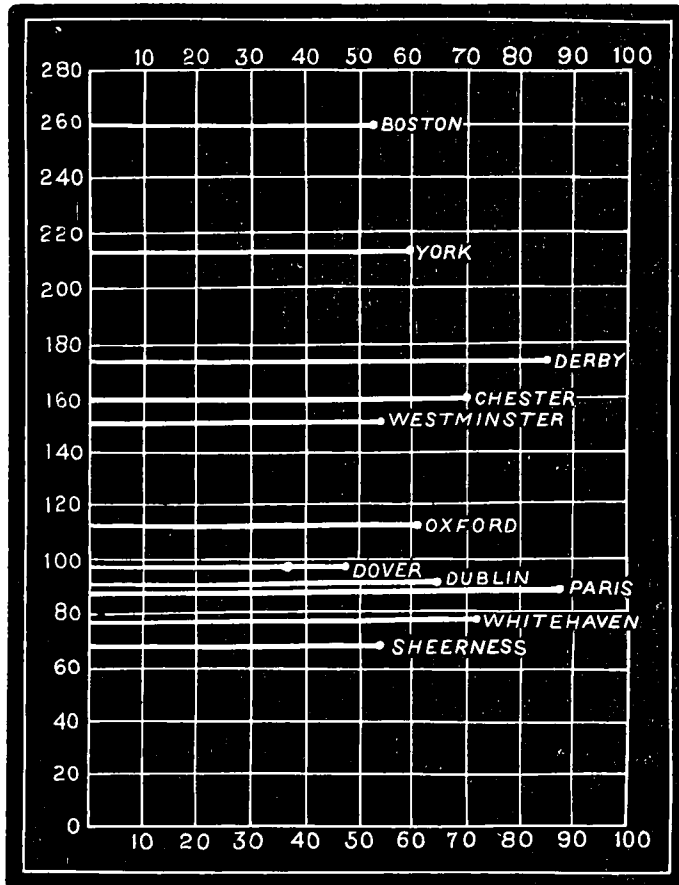


FIG. 5.—PERCENTAGE OF RAINFALL ON THE GROUND REGISTERED BY GAUGES ON HIGH BUILDINGS.

These figures, and especially the comparison of the observations for different months, convinced Mr. Symons that, despite their

apparent divergences, the data proved that above 65 feet a further increase of height did not lead to any further diminution of the amount of rain caught. The differences were due to the position of the gauge, the configuration of the part of the building in the immediate vicinity of the gauge, and the strength and direction of the wind.

The outcome of the whole matter is, that over a broad, flat surface, whether a natural feature of the ground like a plain, a plateau or flat-topped hill, or an artificial erection like a very extensive flat roof, increase of height produces no diminution in the amount of rain caught by a gauge having its mouth one foot above the surface on which it rests. But any abrupt change in the slope of the surface near the gauge, whether it be an embankment across a valley, a cliff, or a steep roof, or tower, allows the wind to set up eddies, or acquire an increased velocity, and so to reduce the amount of rain received in a horizontal gauge.

In representing lines of equal temperature or of equal barometric pressure on a map, the instrumental readings are always reduced to their value at the fundamental level, that of the sea. With lines of equal rainfall on a map, the readings ought also to be reduced to the fundamental level, which, in the case of measurements of rain, is that of the surface of the ground. If all rain gauges were placed at the same height above the ground, there could be no necessity for supplying such a correction; and even when observations are taken by means of gauges set at different heights, it may be that the greatest error which could be introduced by that fact is smaller than the uncertainties due to the position of the gauge with regard to its surroundings, and to the degree of care the observer exercises in making his readings. The problem is a very difficult one, and it has seemed better to endeavour to secure uniformity of the conditions of observing than to attempt to produce an artificial semblance of uniformity in the results of observation by applying corrections, which may not, after all, be nearly so large as the natural uncertainty of the results. Between 1 foot and 9 feet of elevation the average reduction of catch in a rain gauge supported on a pole above the ground is very nearly 1 per cent. per foot; so that if $2\frac{1}{2}$ per cent. of uncertainty in measurement is admissible, it would be absurd to think of applying any corrections to gauges at heights less than 3 feet 6 inches. Below 1 foot in-splashing may increase the amount of rain caught at a rate probably three or four times as

rapid, and a gauge with its mouth 1 inch above the ground may possibly catch 3 or 4 per cent. more rain than one at 1 foot. However, the manner in which the gauge is set, and the nature of the surrounding ground, would in all probability produce greater differences than that due to difference of height.

Mr. Symons always urged the importance of uniformity in conditions on all observers, and it is interesting to enquire how far his efforts in that direction met with success. The dimensions and height above ground of rain gauges were first given in "British Rainfall" for 1866, and the following tables and diagrams show the degree of uniformity attained in that year and in 1899, thirty-three years later.

The diagram, Fig. 6, shows graphically how during the 33 years the proportion of rain gauges with mouths less than a foot above the ground has diminished by one-half, and the proportion above 1 foot has diminished by one-third, while the proportion at 1 foot has increased three-fold. Still, it will be observed that not half the gauges in use are as yet placed at exactly the standard height.

With regard to diameter, it has been shown that, except for convenience in handling and measuring, there is little reason to prefer one size of gauge to another; still, convenience counts for much, and the adoption of a uniform standard is always a great step towards uniformity of observations.

The diagram, Fig. 7, shows that the proportion of five-inch rain gauges has increased from a little less than half to a little more than two-thirds of the total number in use; the proportion of eight-inch gauges remains a little less than one quarter of the total number, while all other sizes together have diminished from one-third to only one-twelfth of the total.

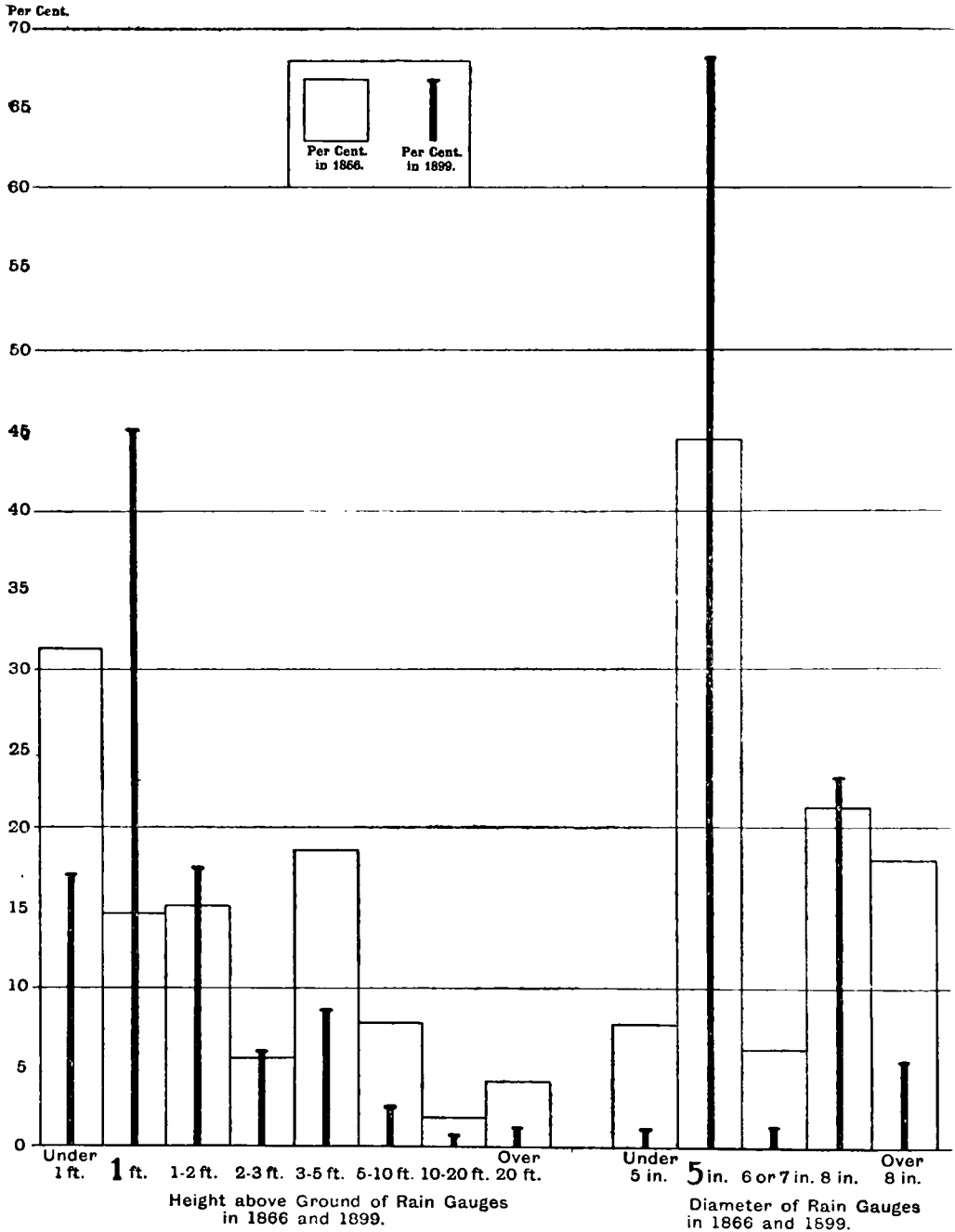


FIG. 7.

FIG. 8.

Height above Ground of Rain Gauges in 1866 and 1899.

Height.	Less than 1 ft.		1 ft.		1 ft. 1—1 ft. 11		2 ft.—2 ft. 11		3 ft.—4 ft. 11		5 ft.—9 ft. 11.		10 ft.—19 ft. 11		20 ft. and over.	
	1866	1899	1866	1899	1866	1899	1866	1899	1866	1899	1866	1899	1866	1899	1866	1899
No. of Gauges—																
England & Wales ...	208	419	146	1286	154	517	55	170	158	251	74	71	15	27	36	37
Scotland	147	138	17	139	13	40	10	15	48	29	5	8	3	2	7	3
Ireland	10	16	9	94	9	31	4	17	7	16	9	9	5	1	7	—
British Isles, total ...	365	573	172	1519	176	588	69	202	213	296	88	88	23	30	50	40
„ Per cent.	31·6	17·2	14·9	45·5	15·2	17·7	5·9	6·1	18·5	8·8	7·6	2·6	2·0	0·9	4·3	1·2

Diameter of Rain Gauges in 1866 and 1899.

Diameter.	3 in. or less.		4 in.		5 in.		6 in.		7 in.		8 in.		9 in.		10 in		11 in.		12 in.		14 in.		24 in. or other sizes.	
	1866	1899	1866	1899	1866	1899	1866	1899	1866	1899	1866	1899	1866	1899	1866	1899	1866	1899	1866	1899	1866	1899	1866	1899
No. of Gauges—																								
England & Wales	10	3	21	14	361	1896	29	13	10	23	178	700	29	58	52	45	9	11	47	27	1	1	10	2
Scotland	32	19	6	—	49	219	13	17	5	2	23	46	2	3	9	2	6	25	3	14	—	—	2	—
Ireland	2	—	1	—	20	147	3	1	—	—	5	32	1	—	10	4	2	2	5	—	—	1	—	—
British Isles, total.	44	22	28	14	430	2262	45	31	15	25	206	778	32	61	71	51	17	38	55	41	1	1	13	2
„ Per cent.	4·7	0·7	2·9	0·4	45·0	68·2	4·7	0·9	1·7	0·7	21·5	23·5	3·3	1·8	7·4	1·5	1·8	1·1	5·7	1·2	—	—	1·3	—

PAPERS ON RAINFALL WORK IN "BRITISH RAINFALL."

Rain Gauge Experiments.

Rotherham, Experimental Rain Gauges at.

First Series—B.R. 1868, 31-32 ; 1869, 11-24 ; 1870, 28-34 ; 1872, 31-36 ; 1873, 28-30.

Second Series—B.R. 1875, 28-30 ; 1876, 38-40 ; 1877, 26-28 ; 1878, 16-21 ; 1879, 18-21 ; 1880, 39-40 ; 1881, 47-48 ; 1882, 34-38.

Third Series—1883, 33-36 ; 1884, 29-31 ; 1885, 31-34 ; 1886, 29-31 ; 1887, 36-37 ; 1888, 38-42 ; 1889, 44-45 ; 1890, 35-36.

Calne, Colonel Ward's Experimental Rain Gauges at.

B.R. 1864, 12-13.

Hurst Green, Rev. T. E. Crallan's Rain Gauge Experiments at Framfield Lodge.

B.R. 1866, 21-24 ; 1867, 45-49.

Strathfield Turgiss, Rev. C. H. Griffiths' Rain Gauge Experiments at.

B.R. 1868, 12-30 ; 1869, 25-35 ; 1870, 23-25.

Hawsker, Rev. F. W. Stow's Rain Gauge Experiments at.

B.R. 1870, 9-22 ; 1871, 16-32.

Aldershot, Colour-Sergeant Arnold's Rain Gauge Experiments at.

B.R. 1869, 40 ; 1870, 41 ; 1871, 52 ; 1872, 39 ; 1873, 32 ; 1874, 44.

Rain Gauges and hints on observing them.

B.R. 1864, 8-12 ; 1865, 11-14.

Rain Gauges, by Rev. E. E. Dymond.

B.R. 1874, 35-38 ; 1875, 25-27 ; 1876, 20-23.

Self-Recording Rain Gauges.

B.R. 1878, 31-48 ; 1879, 33-41 ; 1884, 18-24 ; 1898, 16-24.

Rain Gauge Experiments, Results of.

B.R. 1866, 25-35 ; 1867, 29-31 ; 1868, 36-38 ; 1874, 38-41.

Rain Gauges, special patterns for storms and mountain districts.

B.R. 1870, 46-52 ; 1877, 30-34.

Rain Gauges, The International Congresses and the size of.

B.R. 1874, 23-25 ; 1879, 22-30.

Rain Gauges, Dr. Wild on the influence of Dimensions and Position.

B.R. 1885, 14-23.

Elevation of Rain Gauge above the ground, Effect of, on the amount of rain caught.

B.R. 1871 (by Dr. G. F. Burden), 33-41 ; 1876, 34-37 ; 1877 (by G. Dines), 15-25 ; 1878, 24-30 ; 1880 (by G. Dines), 13-16.

Amount of Rain collected at very considerable heights above the ground.

B.R. 1880, 17-29 ; 1881, 50-52 (on York Minster, by Pro J. Phillips) ; 1881, 41-45.

Rainfall, Possible Errors in the Observation of.

B.R. 1883, 19-28.

Altitude above Sea-level, Increase of Rainfall with.

B.R. 1898, 27-29.

Intensity of Rainfall.

On how many days in the year will half an inch of rain fall ?

B.R. 1867, 22-28.

Importance of registering the maximum rainfall that may come in the minimum time, by W. Menzies.

B.R. 1868, 55-57.

Duration, hourly frequency and rate of rainfall, by F. E. Sawyer.

B.R. 1870, 35-40 ; 1871, 42-48.

Rate at which Rain falls, by Baldwin Latham.

B.R. 1880, 30-34.

Heavy Falls of Rain at Camden Square, 1858-94.

B.R. 1893, 18-22.

On some Intense Rains, 1879-1888.

B.R. 1888, 32-35.

Percentage of Annual Rainfall on Wettest Day.

B.R. 1895, 40-41.

Incidence of Rainfall.

Relative fall of rain during the day and during the night.

B.R. 1885, 24-27.

Monthly Percentage of Mean Annual Rainfall, by F. Gaster.

B.R. 1867, 33-40 ; 1868, 50-54.

What form of Diagram best represents Monthly Rainfall ?

B.R. 1884, 25-28.

The Moon's Influence on Rainfall, by W. R. Birt.

B.R. 1872, 29-30.

Dryness of years ending in 4.

B.R. 1894, 17-20.

Exceptional Storms.

Snowstorms of January 17th-21st, 1881.

B.R. 1881, 35-40.

Exceptional February of 1891.

B.R. 1891, 19-23.

Waterspout (or Cloudburst) on the Cheviots.

B.R. 1893, 14-17.

Angerton Storm, 1898.

B.R. 1898, 30-35.

Rainfall at Special Localities.

The Lake District.

Origin, progress and present state of our knowledge of the Rainfall of the Lake District.

B.R. 1867, 13-21.

Notes on the Rainfall among the Cumberland Mountains, by Isaac Fletcher, F.R.S.

B.R. 1865, 20-22 ; 1866, 9-10 ; 1867, 41-44 ; 1869, 36-39.

Rainfall at Special Localities—*continued*.**The Lake District—*continued*.**

History of the Rainfall Observations at Seathwaite.

B.R. 1876, 53-55.

Seathwaite's Jubilee, 1845-94.

B.R. 1895, 15-25.

The most rainy part of England [Seathwaite].

B.R. 1896, 16-26.

Mean Annual Rainfall of Lake District.

B.R. 1897, 16-27.

Rainfall of certain Districts.

B.R. 1868, 39-49 ; 1869, 42-57.

Rainfall of County of Hereford in 1873, by Rev. N. Stephenson.

B.R. 1873, 25-27.

Rainfall at certain Health Resorts in the United Kingdom.

B.R. 1874, 10-22.

Rainfall of 1875 in Wensleydale and district, by Rev. F. W. Stow.

B.R. 1875, 10-20.

On the Observations of Rainfall at the Royal Observatory, Greenwich, 1841-1879, by W. C. Nash, with Remarks by G. J. Symons.

B.R. 1879, 10-14.

Rainfall on Ben Nevis. B.R. 1882, 28-33.

Long-Period Rainfall Observations.

The Secular Variation of Rainfall in England since 1725.

B.R. 1870, 53-57 ; 1871, 58-68 ; 1872, 24-28.

Recent Annual Rainfall compared with 160 years.

B.R. 1886, 27-28.

Recent Annual Rainfall compared with the previous 165 years.

B.R. 1891, 16-18.

On the Fluctuation of the Fall of Rain in England, 1830-81.

B.R. 1881, 18-34.

Fluctuation of Total Rainfall.

B.R. 1883, 29-32 ; 1890, 32-34.

East Anglian Rainfall, 1801-1888, by F. Dix.

B.R. 1888, 36-37.

Historic Droughts.

B.R. 1887, 23-35.

Rainfall of the Decade 1890-99.

B.R. 1899, 20-30.

The supposed Corresponding Periods of increased Rainfall and Sunspot Frequency.

B.R. 1872, 43-52.

On the wetness of recent years in various parts of the British Isles (with folding table).

B.R. 1882, 17-27.

Snow.

Snow-fall, On the Measurement of.

B.R. 1872, 9-23; 1888, 16-28.

Snow-fall, Colonel Ward on the Measurement of.

B.R. 1874, 25-34; 1875, 21-25; 1878, 13-15; 1879, 16-17; 1888, 29-31.

Snow-fall, Mr. E. Mawley's Directions for the Measurement of.

B.R. 1880, 35-38.

Snow-gauge, Mr. Sidebottom's.

B.R. 1893, 29.

Definitions.

Dry Year, Definition of.

B.R. 1898, 25-26.

Drought, Definition of.

B.R. 1887, 15-22.

Scotch Mist, by Rev. F. W. Stow.

B.R. 1873, 10-24.

British Rainfall Organization.

County Organizations.

B.R. 1880, 42-44.

The Nunes Bequest.

B.R. 1883, 14-18.

"English Rainfall, 1860," and "British Rainfall, 1884."

B.R. 1884, 14-17.

G. J. Symons, F.R.S., Obituary Notice.

B.R. 1899, 14-19.

Ocean Rainfall.

Ocean Rainfall, by F. Gaster.

B.R. 1866, 13-20.

Detection of sea-spray when mingled with rain.

B.R. 1866, 11-12.

Rain Gauge at sea.

B.R. 1885, 28-30.

Miscellaneous.

Dew Ponds.

B.R. 1876, 42-44.

Altitude above Sea-level.

B.R. 1890, 58-63.

The Heberden Family and Meteorology, 1747-1897.

B.R. 1896, 32-41.

Rainfall in relation to Agriculture, by W. W. Watson.

B.R. 1876, 16-19.

Agricultural Depression and Bad Seasons, by the Editor, with a letter from F. Bravender.

B.R. 1876, 24-33.

RECORDS OF EVAPORATION.

WE have this year to regret the loss of the record of one of the standard tanks—the observations at Isfield Place having been discontinued. Fortunately, this station is in the South of England, where the number of observers is greatest, and the loss is therefore less serious. Only three out of the seven stations quoted are north of latitude 52°, but Mr. Clemesha Smith, C.E., of Wakefield, has established a standard tank, the records for which we hope to print next year. Additional stations north of the Humber and in the centre and west of England would be very valuable.

Comparison of the total evaporation at each station with the records of the two preceding years shows considerable but irregular variation, of which we can see no explanation from the information available. Last year's comparison of 1899 with 1898 appeared to indicate a rough relation to the total rainfall at the station, but this indication is rather weakened by the 1900 figures.

Station.	County.	Difference from 1899. in.	Evaporation, 1900. in.	Rainfall, 1900. in.
Camden Square ...	<i>Middlesex</i> ...	—1·48	17·40 (3)	23·28 (2)
Croydon	<i>Surrey</i>	—3·28	15·50 (1)	25·26 (3)
Otterbourne	<i>Hants</i>	—5·71	17·69 (4)	28·23 (4)
Southwold	<i>Suffolk</i>	—·24	21·77 (6)	22·54 (1)
Kennick	<i>Devon</i>	—2·47	20·38 (5)	40·66 (7)
Revesby	<i>Lincoln</i>	+·02	16·05 (2)	28·82 (5)
Downholland	<i>Lancashire</i> ...	+·67	23·17 (7)	31·18 (6)

Taking the stations in order from north to south, there is a marked arrangement of the difference between the two years from a plus quantity in the north to a minus quantity in the south, but we

cannot trace any relation in it to the variation of the rainfall from the average in the two years, and it is probably only a fortuitous circumstance.

Station.	County.	Difference from 1899. in.	Evaporation, 1900. in.	Rainfall, 1900. in.
Downholland	<i>Lancashire</i> ...	+ .67 (1)	23.17 (7)	31.18 (6)
Revesby	<i>Lincoln</i>	+ .02 (2)	16.05 (2)	28.82 (5)
Southwold	<i>Suffolk</i>	— .24 (3)	21.77 (6)	22.54 (1)
Camden Square ...	<i>Middlesex</i> ...	—1.48 (4)	17.40 (3)	23.28 (2)
Croydon	<i>Surrey</i>	—3.28 (6)	15.50 (1)	25.26 (3)
Otterbourne	<i>Hants</i>	—5.71 (7)	17.69 (4)	28.23 (4)
Kennick	<i>Devon</i>	—2.47 (5)	20.38 (5)	40.66 (7)

The total evaporation at Camden Square in 1900 has been exceeded in only two years, 1893 and 1899, since the observations began in 1885.

Evaporation at Camden Square, 1885–1900.

	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.	+.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	+.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.	+.03	.01	.92	2.33	3.06	3.62	3.12	2.85	1.48	.70	.11	.01	18.18
1894.	+.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	+.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
Mean	.09	.25	.64	1.47	2.34	2.90	2.96	2.27	1.26	.57	.22	.07	15.04
1900.	.03	.16	.80	1.46	2.35	2.85	4.25	2.61	1.61	.89	.24	.15	17.40
Diff.	— .06	— .09	+.16	— .01	+.01	— .05	+.1.29	+.34	+.35	+.32	+.02	+.08	+.2.36

EVAPORATION IN 1900.

County	London, Camden Sq.	Surrey, Duppas House, Croydon	Hampshire, Otterbourne	Suffolk, Southwold	Devon, Kennick, Christow	Lincoln, Revesby Water Works	Lancashire, Downholland.
Station	51°32'30" N. 0 8 0 W. 111 ft.	51°22' 5" N. 0 6 13 W. 158 ft.	51° 0' 28" N. 1 19 55 W. 111 ft.	52° 20' N. 1 41 E. 44 ft.	50° 38' 30" N. 3 41 20 W. 842 ft.	53° 9' N. 0 3 W. 130 ft.	53° 34' 38" N. 3° 1' 12" W. 13 ft.
Latitude	II. Sowerby Wallis	Baldwin Latham, CE	W. Matthews, C.E.	A. C. Herbert	W. Ingham, C.E.	J. Shaw	J. Bazendell.
Longitude	6 ft. × 6 ft.	1 ft. diameter.	6 ft. × 6 ft.	4 ft. × 4 ft.	6 ft. × 6 ft.	6 ft. × 6 ft.	6 ft. × 6 ft.
Altitude	450	5	450	200	450	450	450
Observer	3 inches	4 inches	3 inches	1 inch	3 inches	—	2 inches
Size of tank	in.	in.	in.	in.	in.	in.	in.
Capacity (galls.)	.03	.04	.11	.23	.18	.18	.29
Height of lip above ground	.16	.22	.34	.23	.01	.24	.39
January	.80	.74	1.04	1.12	.92	.46	1.06
February	1.46	1.58	1.86	1.99	2.06	1.69	2.29
March	2.35	2.16	2.53	3.01	3.03	2.19	3.21
April	2.85	2.51	2.64	3.01	3.07	2.60	3.80
May	4.25	3.38	4.08	3.91	4.32	3.52	4.34
June	2.61	2.38	2.68	2.90	3.17	1.89	3.30
July	1.61	1.45	1.99	2.04	2.22	1.48	2.17
August	.89	.85	1.01	1.38	1.12	1.37	1.31
September	.24	.44	.18	1.17	.37	.34	.67
October	.15	.27	+	.78	+	.09	.34
November	17.40	15.50	17.69	21.77	20.38	16.05	23.17
December	18.88	18.78	23.40	22.01	22.85	16.03	22.50
Year, 1900	13.95	16.38	19.53	17.78	20.27	...	...
" 1899	16.74	16.89	20.21	20.52	21.17	16.04	22.83
" 1898	23.28	25.26	28.23	22.54	40.66	28.82	31.18
Mean	22.54	23.37	22.87	22.94	41.33	21.42	26.58
Year, 1900	17.69	20.40	23.71	19.31	35.33	19.20	...
" 1899	21.17	23.01	24.94	21.60	39.11	23.15	28.88
" 1898							
Mean							

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

1900	Evaporation from 12 in. Evaporator floating in Water.	Condensation in 12 in. Evaporator floating in Water.	Average daily Temperature of Water at 9 a.m. in 12 in. Evaporator floating in Water.	5 in. Evaporator freely exposed in Air.	Average daily Temperature of Water at 9 a.m. in 5 in. Evaporator freely ex- posed in Air.	Temperature of the Dew Point at 9 a.m.
	in.	in.	Deg. F.	in.	Deg. F.	Deg. F.
Jan.	·20	·24	36·1	·73	37·3	36·5
Feb. ...	·12	·34	35·7	·57	37·1	32·8
March...	·74	—	37·7	1·78	37·0	33·5
April ...	1·58	—	47·9	3·24	49·8	40·3
May ...	2·16	—	54·4	4·09	55·7	44·2
June ...	2·51	—	63·2	4·28	65·5	53·2
July ...	3·38	—	69·9	5·73	73·8	57·6
August..	2·38	—	63·7	3·36	64·9	54·6
Sept. ...	1·45	—	59·0	2·60	59·9	53·1
Oct.	·90	·05	51·5	1·81	51·2	46·7
Nov. ...	·45	·01	45·2	·61	44·2	42·9
Dec... ..	·29	·02	43·4	·65	43·2	41·3
Totals	16·16	·66	607·7	29·45	619·6	536·7
Averages..	...	...	50·6	...	51·6	44·7

COMPARISON OF GERMAN & ENGLISH RAIN GAUGES

AND OF

MR. SIDEBOTTOM'S SNOW GAUGE

AT CAMDEN SQUARE, N.W.

1900	Ordinary English 8 in. gauge.	Ordinary 8 in. gauge reduced by 5 per cent.	DR. HELLMANN'S GAUGES.				SIDEBOTTOM'S SNOW GAUGE.	
			No. 1. N.E.	No. 2. S.W.	Difference from reduced English.		Total.	Differ- ence from Reduced 8 inch.
					No. 1.	No. 2.		
	in.	in.	in.	in.	in.	in.	in.	in.
Jan.	2·92	2·77	2·80	2·83	+·03	+·06	2·80	+·03
Feb.	3·99	3·79	3·90	3·88	+·11	+·09	3·83	+·04
Mar.	·79	·75	·72	·71	—·03	—·04	·73	—·02
April	·98	·93	·80	·78	—·13	—·15	·84	—·09
May	·93	·88	·74	·75	—·14	—·13	·81	—·07
June	2·26	2·15	2·02	2·09	—·13	—·06	2·07	—·08
July	1·50	1·43	1·17	1·22	—·26	—·21	1·40	—·03
Aug.	2·81	2·67	2·63	2·63	—·04	—·04	2·65	—·02
Sep.	·79	·75	·69	·68	—·06	—·07	·72	—·03
Oct.	1·86	1·77	1·72	1·73	—·05	—·04	1·73	—·04
Nov.	1·90	1·81	1·77	1·76	—·04	—·05	1·78	—·03
Dec.	2·55	2·42	2·38	2·37	—·04	—·05	2·38	—·04
Total 1900	23·28	22·12	21·34	21·43	—·78	—·69	21·74	—·38
1899	22·54	21·41	20·79	21·08	—·62	—·33	21·22	—·19
1898	17·69	16·82	16·43	16·57	—·39	—·25	16·59	—·23
1897	22·86	21·72	21·49	21·58	—·23	—·14	21·61	—·11
1896	23·52	22·34	21·45 with x	22·08	—·89	—·26	21·95	—·39
1895	21·47	20·39	20·05	20·62	—·34	+·23	20·31	—·08
1894	27·94	26·55	26·01	27·11	—·54	+·56	26·48	—·07
1893	19·80	18·82	18·22	18·82	—·60	·00	18·58	—·24
1892	22·61	21·48	21·30	21·81	—·18	+·33		

We have decided to continue this comparison for one year longer, so as to have ten continuous years' record, available for a general discussion and critical examination of the effect of the surroundings on the position of the standard gauge.

RAINFALL AT THE ROYAL OBSERVATORY, GREENWICH.

Lat., 51° 28' 38" N.

Long., 0° 0' 0"

Communicated by W. H. M. CHRISTIE, Esq., C.B., M.A., F.R.S.,
Astronomer Royal.

1900	No. of Rainy Days.	MONTHLY AMOUNT OF RAIN COLLECTED IN EACH GAUGE.							
		Osler's Anemometer		On roof of Octagon Room.	On roof of Magnetic House.	On roof of Photographic Thermometer Shed.	Gauges partly sunk in the ground.		
		Self-registering Gauge.	Second Gauge.						
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.
January	22	in. 1·214	in. 1·232	in. 1·665	in. 1·822	in. 2·161	in. 2·277	in. 2·198	in. 2·241
February.....	19	1·472	1·707	2·493	3·012	3·353	3·583	3·348	3·370
March	13	·496	·563	·724	·815	·879	·918	·920	·913
April.....	11	·390	·376	·598	·792	·936	·924	·915	·966
May.....	9	·794	·823	1·081	1·211	1·357	1·367	1·320	1·384
June	17	1·823	1·859	2·315	2·607	2·759	2·815	2·772	2·782
July	5	·919	1·145	1·257	1·322	1·356	1·408	1·369	1·358
August	12	1·274	1·188	1·547	1·898	2·056	2·029	2·042	2·051
September	6	·628	·507	·810	1·030	1·115	1·143	1·122	1·138
October	14	·926	·930	1·204	1·377	1·515	1·550	1·505	1·574
November	19	1·111	1·290	1·578	1·712	1·857	2·019	1·948	1·947
December	18	1·300	1·301	1·727	1·975	2·192	2·282	2·167	2·290
Sums.....	165	12·347	12·921	16·999	19·573	21·536	22·315	21·626	22·014
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 gauge added in 1881.

1901, January 5.

THE STAFF OF OBSERVERS.

THIS year the following summary shows a slight falling off in the total number of records. The decrease is trivial, due to a number of causes, and gives us no uneasiness.

For several years past the increase of numbers has been so exceptionally great that it could not be permanently maintained, and a sudden check was to be expected. Last year we made a special effort to reach a total of 3500 stations with the end of the century, so for that year the increase was, in a sense, partly fictitious, which tends to unduly exaggerate the effect of the check.

The decrease is more than covered by the observers who have gone out to the seat of war, and the wave of patriotic enthusiasm which has swept over the country has tended to turn the thoughts of the community from the less stirring themes of scientific pursuits and the interests of agriculture.

The most important losses are those of the records on the Braemore Estate, near Lochbroom, and on the recently completed railroad between Fort William and Fort Augustus, which very seriously diminish the already woefully poor distribution of stations in the Highlands of Scotland.

Another important gap is caused by the absence of the gauges erected in 1898 on the watershed of the Derwent, but this we hope is only temporary, as a greatly augmented system of observation has been established by the Referees under the Derwent Water Bill; and if the returns are not available for publication annually, there will be at the completion of the enquiry knowledge of the fall of a large and important area, such as exists for no other part of the British Isles.

Ireland is the only one of the three kingdoms which shows an increase, and satisfactory as this is, we regret that it must not be taken as an indication that the country is satisfactorily supplied with observers.

The great gain of the year is that of Mr. Gethin Jones's additional records on the slopes of Snowdon, a region which we had scarcely hoped would be so well investigated.

Number of perfect 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 ...	—

Difference from 1899—

Increase	— ...	— ...	— ...	8 ...	— ...	—
Decrease	3 ...	4 ...	9 ...	— ...	8 ...	8

MIDDLESEX (67).

ABSENT RECORDS.

Teddington (Gomer House)—*Observer dead.*
 Kensington Museum—*Gauge moved.*
 Hampstead (Branch Hill Lodge)—*Obsr. dead.*
 Upper Clapton—*Observer moved.*
 Stoke Newington (Cazenove Rd.)—*Obsr. moved.*
 Crouch End (Fairfield Rd.) 2 g.—*Obs. moved.*
 Wealdstone—*Observer moved.*
 Harrow Weald (Hill House)—*Gauge moved.*

INSERTIONS.

Twickenham (Sewage Works) M.
 Westminster (Chester Sq., SW.)
 „ (Spring Gardens) 3.
 London (Hamilton Terrace, N.W.)
 „ (New River Head, E.C.)
 Willesden Reservoir.
 Stamford Hill.
 Hornsey (High Street).
 Enfield (Carisbrooke) 2nd gauge.

SURREY (152).

Cranleigh (County School)—*Return imperfect.*
 Capel (The Cottage)—*Observer moved.*
 Godalming (Northanger)—*Obsr. abroad.*
 Reigate (The Briars)—*Record ceased.*
 Horsley, West—*Not received.*
 Frimley Green (Ridgemount)—*Return imp.*
 Coulsdon Grange—*Not received.*
 Warlingham Vicarage—*Record imperfect.*
 Ashted (Meadow Bank)—*Observer moved. ;*
 Banstead (Burgh Heath Res.)—*Record imp.*
 Purley (Tudor Cottage)—*Record ceased.*
 Weybridge (Field Place) M—*Not received.*
 ThorntonHeath(ThorntonRd.)—*Record ceased.*
 Wimbledon (Mount Ararat)—*Observer dead.*

Dunsfold (Durfold).
 Okewood Vicarage.
 Abinger (Feldemore).
 Godalming (Peper Harow).
 Lyden Croft [Edenbridge].
 Reigate (Wray Lodge).
 „ (Northcote).
 „ (Hatherlow Obs.)
 Caterham Valley (Bradenhurst).
 Woking.
 Cobham (Hatchford).
 Sanderstead (Red House).
 Bagshot (Hall Grove).
 Chertsey (Long Cross).
 Weybridge (St. Mary's Lodge).
 „
 Worcester Park (Manor Lodge).
 Virginia Water (Lyne Grove).
 Kingston (Union Street).
 Richmond (The Terrace).
 Denmark Hill.
 Nine Elms (Heathwall).

KENT (130).

Hythe (Saltwood)—*Observer moved.*
 Maidstone (Bearsted)—*Observer moved.*
 Keston (Bradfield)—*Observer moved.*
 Herne Bay (W. Wks.)—*Believed to be leaking.*
 Rochester (Rede Court)—*Not received.*
 Chislehurst (Foxbury)—*Not received.*
 „ (Hawkwood)—*Return incorrect.*
 Sydenham (Gorrevod)—*Observer moved.*

Tunbridge (Speldhurst Rectory).
 Deal (Sewage Works).
 Maidstone (Ulcombe Place).
 „ (Allington).
 Broadstairs.

WEST SUSSEX (40).

Steyning—*Record interrupted.*
 Chichester (Charlton)—*Not received.*
 Crawley (Oak Lodge)—*Observer moved.*

Arundel (Warningcamp).
 Funtington.
 Horsham Denne Park).
 Slinfold (Rapkyns).
 „ (Dedisham).

EAST SUSSEX (66).

Eastbourne (Sussex Gdns.)—*Observer moved.*
 Brighton (Abattoir)—*Record ceased.*
 Iford (Swanborough)—*Observer moved.*
 Lewes (Bedford Lodge)—*Gauge believed to be leaking.*
 Hurstpierpoint (The College)—*Record imperfect.*
 Isfield Place—*No reply.*
 Burgess Hill (Ote Hall)—*No observations.*
 Uckfield House—*Observer moved.*
 Rotherfield (Bonnie View)—*Record ceased.*

Eastbourne (Staveley Cross).
 Brighton (W. W. Up. Portslade).
 Polegate (Alciston).
 Hastings (St. Helen's Crescent).
 Hassocks (Pyecombe).
 Hayward's Heath (Abbot's Leigh).
 Nutley (The Hall).
 Forest Row (Charlwood Farm).

HAMPSHIRE (100).

Yarmouth Schools—*No Observations.*
 Ryde (Thornbrough)—*Observer dead.*
 Bournemouth (Water Tower)—*Not received.*
 Lyminster (Pennington Chase)—*Not received.*
 Petersfield (Steep Vicarage).—*Gauge believed to leak.*
 Alresford (Hinton Ampner)—*Observer dead.*
 „ (Itchen Stoke Rectory)—*Rec. lost.*
 Farnborough (The School) M—*Rec. ceased.*
 Strathfieldsaye Gardens—*Record ceased.*

Ryde (Town Hall).
 Botley (Fairfield, Curdridge).
 Bishop's Waltham (Wintershill Hall).
 West Liss (Hawkley).
 Greatham (Manor House).

BERKS (38).

Newbury (Benham Park)—*Observer moved.*
 Reading (Maiden Erlegh)—*Rec. imperfect.*
 Little Wittenham Rectory—*Observer moved.*

Hertford.

HERTS (51).

King's Langley (Laurel Bank)—*Obs. dead.*
 St. Alban's (The Grange)—*Observer moved.*
 Hitchin (Bancroft)—*Observer moved.*

BUCKS (29).

Slough (Upton Park)—*No reply.*
 Aylesbury (High Street)—*Observer dead.*

Wooburn (The Chestnuts).
 Great Missenden.

OXFORD (44).

Drayton St. Leonard—*Observer moved.*
 Charlbury (Highfield)—*Not received.*

Caversham Yard.
 Chipping Norton (Kingham).
 Banbury (Sibford Gower).

NORTHAMPTON (55).

Northampton (Pytchley Street)— <i>No reply.</i>	Blisworth (Milton House). Great Houghton. Kettering (W. W. Cransley). Barnwell (Lilford Hall).
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HUNTS (8).

Alconbury— <i>Observer moved.</i>	
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BEDFORD (18).

Aspley Guise (Oaklands) M— <i>Not received.</i>	Turvey.
Ampthill (Maulden)— <i>Record ceased.</i>	
Bedford (The Grove)— <i>Observer dead.</i>	

CAMBRIDGE (47).

	Elm (Grove House).
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ESSEX (74).

Brentwood (Sawyer's Hall)— <i>Record ceased.</i>	Wanstead.
Bradwell-on-Sea (Down Hall)— <i>Obs. dead.</i>	Manor Park (Albany Rd.) <i>New g.</i>
Hatfield Peverel (Cardfields)— <i>Record ceased.</i>	Billericay (Norsey Manor). Southminster. Chelmsford (County Hortic. Schl). Abbess Roding Rectory. Clacton-on-Sea. Layer Breton Rectory. Manningtree (Bradfield Lodge).

SUFFOLK (46).

Beccles (Sotterley Hall)— <i>Observer abroad.</i>	Ipswich (Museum).
Lowestoft (Bryn-y-môr)— <i>8-in.g. Not received.</i>	

NORFOLK (55).

Scole Rectory— <i>Observer moved.</i>	Honingham.
Tivetshall St. Margaret— <i>No reply.</i>	Sporle (Petygards).
Norwich (Thorpe High House)— <i>Rec. ceased.</i>	„
Hillington School— <i>Not received.</i>	
Dersingham Vicarage— <i>Observer moved.</i>	
Holkham— <i>No reply.</i>	

WILTS (48).

Salisbury (St. Nicholas)— <i>Observer dead.</i>	Broadchalke.
Trowbridge (Lovemead)— <i>No reply.</i>	East Knoyle.
Marlborough— <i>Record imperfect.</i>	Salisbury (Brown Street).
Wootton Bassett— <i>Not received.</i>	„ (De Vaux Lodge).
	Amesbury (Shrewton).
	Trowbridge (Wingfield).
	Chippenham (Langley Burrell).

DORSET (44).

Chickerell Rectory— <i>Not received.</i>	Portland Bill.
Corfe Castle (Furzebrook)— <i>Observer dead.</i>	Sherborne (Castle).
Upwey (Broadway)— <i>Not received.</i>	
Poole (Hamworthy)— <i>Not received.</i>	
Bridport (Portville)— <i>Gauge leaking.</i>	
Bere Regis Vicarage— <i>Observer moved.</i>	
„ „ (Bloxworth House)— <i>Obs. dead.</i>	
„ „ (Whitelovington)— <i>Obs. moved.</i>	
Wimborne (Rowlands)— <i>Observer dead.</i>	
Hazelbury Bryan Rectory— <i>Observer dead.</i>	

DEVON (112.)

Dittisham (Chipton)— <i>Not received.</i>	Princetown (N. Hessary Tor)— <i>No. 1 g.</i>
Ivybridge (Langham Hill)— <i>Old g. discontd.</i>	Torrington (Reservoir).
Torquay (Chapel Hill Tower)— <i>Not received.</i>	„ (Enfield).
Dartmoor (Cramber Tor)— <i>Record imperfect.</i>	
Teignmouth (Bitton Street)— <i>Rec. incomplete.</i>	
Bovey Tracey (Little Bradley)— <i>Obs. abroad.</i>	
Exeter (Manston Terrace) 2nd g.— <i>Not recd.</i>	

CORNWALL (49).

Penzance— <i>No reply.</i>	St. Keverne (Rosuic Cottage).
St. Just West— <i>Return incomplete.</i>	St. Wenn Vicarage.
	St. Mabyn (Pencarrow).
	Egloskerry (Tregeare).

SOMERSET (81).

Ilminster (Ilton Vic.) 5 in. g.— <i>Discontinued.</i>	Cricket St. Thomas.
Taunton (The Priory, Ash Priors)— <i>Obs. moved.</i>	Yeovil (Barwick House).
Wincanton— <i>Observer moved.</i>	Taunton (Ashleigh).
Bridgwater (Nether Stowey)— <i>Obs. moved.</i>	„ (Linden Grove).
Minehead— <i>Observer moved.</i>	Shepton Mallet (Sewage Farm).
Radstock (Downside College)— <i>Gauge moved.</i>	Wells (The Cedars).
Weston-super-Mare (High St.)— <i>Gauge moved.</i>	Ubley (Nordrach-on-Mendip).
Bath (Royal Institution)— <i>No reply.</i>	Weston-super-Mare (Leycroft Ho.).
	Bath (Statutory Hospital).
	Failand House [Bristol]—12 in. g.

GLOUCESTER (75).

Bristol (Redland Green)— <i>No reply.</i>	Fairford (The Close).
Horfield (H.M. Prison)— <i>Observer dead.</i>	Gloucester (Cotswold Sanatorium).
Berkeley (Sharpness New Docks)— <i>G. leaking.</i>	
Gloucester (Maisemore Lock)— <i>Gauge leaking.</i>	
Cheltenham (Battledown)— <i>Record incomplete.</i>	
„ (Naunton Park Villas)— <i>Obs. moved.</i>	

HEREFORD (28).

Bodenham Vicarage— <i>Observer dead.</i>	Woolhope (Wessington Court).
	Hereford (St. Michael's Priory).

SHROPSHIRE (40).

Ludlow (The Sheet)— <i>Observer moved.</i>	Bridgnorth (Coton Hall).
Church Stretton (Burway Ho.)— <i>No reply.</i>	Church Stretton.
Hadnall (Hardwick Grange)— <i>No reply.</i>	„ (PoleCott., Longmynd).
Ellesmere (Oteley)— <i>No reply.</i>	„ (Hookfield Ho.).
Adderley Rectory— <i>Observer moved.</i>	Newport (Aston Hall).
	Wem (The Rectory).

STAFFORD (39).

Etruria— <i>Record imperfect.</i>	
Golden Hill (Highfield Ho.)— <i>Gauge moved.</i>	

WORCESTER (38).

Bromsgrove (Stoke Reformatory).
Northfield (West Heath House).
Stechford (Ely Cottage).

WARWICK (31).

Southam (Bascote)— <i>Observer moved.</i>	Stratford-on-Avon (Shottery Hall).
Rugby (Dunchurch Hall)— <i>Observer moved.</i>	
Shirley— <i>Observer moved.</i>	
Sparkbrook (Grantham Rd.)— <i>Rec. imperfect.</i>	
Sutton Coldfield (Ladywood)— <i>Rec. imperfect.</i>	

LEICESTER (28).

Lutterworth (Walcote)— <i>Record incomplete.</i>	Horninghold House.
Wigston Magna (Bushloe Ho.)— <i>No reply.</i>	Leicester (Town Hall Square). <i>2nd g.</i>

RUTLAND (7).

LINCOLN (69).

Stamford (Bleak House)— <i>Not received.</i>	Horbling (The Hall).
„ (Northfields)— <i>No reply.</i>	Navenby Rectory.
Long Sutton— <i>Observer dead.</i>	Horncastle (Mareham-le-Fen).
Skegness— <i>Gauge out of order.</i>	Scampton House.
Fillingham Manor— <i>Observer moved.</i>	Aisthorpe Hall.
West Halton— <i>Observer moved.</i>	Caistor (Cabourne).

NOTTS (46).

South Collingham— <i>House and record burnt.</i>	Nottingham (Burton Joyce, W.W.).
	Newark (Averham Rectory).
	Ollerton (Boughton, W.W.).

DERBY (54).

Stanton House [Burton]— <i>Observer moved.</i>	Matlock (Cromford).
Norton [Sheffield]— <i>Not received.</i>	Buxton (Portobello Bar).
Edale (Upper Booth)— <i>Not received.</i>	„ (Stanley Moor).
Ashopton (Win Hill)— <i>Not received.</i>	„ (Burbage Edge).
„ (Coxbridge Farm)— <i>Not received.</i>	Glossop (Corporation W.W.).
Derwent (Rowlee Pasture)— <i>Not received.</i>	
Kinder Scout (Ashop Head)— <i>Not received.</i>	
Ronksley Moor (Back Dyke)— <i>Not received.</i>	
Woodhead (Bleaklow Stones)— <i>Not received.</i>	
„ (Featherbed Moss)— <i>Not received.</i>	

CHESHIRE (71).

Chester (Upton Lawn)— <i>Observer moved.</i>	Knutsford.
Wilmslow (Southside)— <i>Observer moved.</i>	Bowdon (Erlesdene) No. 2.
Bowdon (The Firs)— <i>Observer moved.</i>	Northenden (Wythenshawe) <i>8-in g.</i>
Thelwall (Highfields)— <i>2 g. Observer dead.</i>	

LANCASHIRE (190).

Warrington (Fever Hospital)— <i>Not received.</i>	Liverpool (Newsham Park).
St. Helens (Eccleston Hill)— <i>Rec. interrupted.</i>	Manchester (Withington).
Manchester (Alexandra Park)— <i>Observer dead.</i>	„ (Plymouth Grove).
„ (Whitworth Park)— <i>No reply.</i>	Rochdale (The Crescent).
Over Darwen (Hoddlesden)— <i>No. 2. Discontd.</i>	Lytham.
Blackburn (W.W. Office)— <i>No observations.</i>	Fleetwood.
„ (Pumping Station)— <i>No observations.</i>	Garstang (Forton).
Accrington (Milnshaw Park)— <i>Rec. incorrect.</i>	Hampson-in-Ellel.
Eccleston (Elswick Lodge)— <i>3 g. Rec. ceased.</i>	Bolton-le-Sands.

YORKSHIRE—WEST RIDING (284).

Honley (Northgate House)— <i>Not received.</i>	Sheffield (West Street).
Rastrick— <i>No reply.</i>	Denshaw (New Year's Bridge) <i>n.g.</i>
Bradford (Manningham)— <i>Observer dead.</i>	„ (Ready Con Dean) <i>n.g.</i>
Skipton (Counter Hill)— <i>Gauge tampered with.</i>	Elland.
York (The Retreat)— <i>G. believed to be leaking.</i>	Ardsley Reservoir.
Masham Moor (Leighton)— <i>Gauge damaged.</i>	Otley (Danefield).
	„ (Sewage Farm).
	Skipton (Gill Grange).
	Ilkley (Hollingley).
	Slaidburn (Knowlmere Manor).
	York (St. Paul's Square).
	Harrogate (Scargill).
	West End (Meagill Lane).
	Ingleton (Kingsdale Head).

YORKSHIRE—EAST RIDING (25).

Cottingham Grange— <i>No reply.</i>	Cottingham.
Cherry Burton House— <i>Observer dead.</i>	

YORKSHIRE—NORTH RIDING (42).

Bedale (Thorpe Perrow)— <i>Record interrupted.</i>	Gilling (Grimstone Manor).
	Bedale (Park House).
	„ (Fencote).
	Ravenscar.
	Fylingdales Vicarage.

DURHAM (36).

Darlington (Langholme Crescent)— <i>Observer moved.</i>	Sunderland (Claxheugh Grove).
Ushaw College— <i>Record interrupted.</i>	„ (The Cedars).
Houghton-le-Spring (Myre Hall)— <i>Not recvd.</i>	

NORTHUMBERLAND (52).

Morpeth (Stobhill)— <i>Not received.</i>	Newcastle (The Quarries). <i>2nd g.</i>
Ancroft (Cheswick)— <i>Observer dead.</i>	Morpeth (Longhirst).
	Beal (Barmoor Castle).

CUMBERLAND (67).

Braystones.— <i>Observer moved.</i>	Gosforth (Steelfield Hall).
Wastdale Head— <i>Discontinued.</i>	Keswick (Portinscale).
Bassenthwaite (Mirehouse)— <i>Not received.</i>	Workington (Winscales).
	Penrith (Newton Reigny).

WESTMORELAND (36).

Kendal (Hawesmead)— <i>Record ceased.</i>	Windermere.
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MONMOUTH, WALES, AND THE ISLANDS.

MONMOUTH (30).

Llanvair Discoed (Penhein)— <i>Record ceased.</i>	Newport (Pantyreos Ress).
Chepstow (The Mount)— <i>Observer moved.</i>	„ (W. W. New Mills).
Bettws Newydd (Brynderwen)— <i>Obs. dead.</i>	„ („ Llanvaches).
Blaenavon Gas Works— <i>Gauge moved.</i>	„ (Wentwood).
	„ (W. W. Newchurch).

GLAMORGAN (43).

Cowbridge (The Ham)— <i>No reply.</i>	Swansea (Glanmor Crescent).
Penarth (Cwrt-y-Vil.)— <i>Observer moved.</i>	
Swansea (St. James' Gardens)— <i>Obs. moved.</i>	
„ (Uplands Crescent)— <i>Rec. imperfect.</i>	
Ystalyfera (Tanyrallt)— <i>No observations.</i>	

CARMARTHEN (9).

PEMBROKE (8).

Clarbeston (Penty Park)— <i>Rec. interrupted.</i>	| Tenby
Solva— <i>Observer moved.</i>	| Haverfordwest (Haroldstone Ho.)

CARDIGAN (4).

BRECKNOCK (37).

Colbren (Penwyllt)— <i>Gauge moved.</i>	|
Brecknock (The Barracks)— <i>Observer abroad.</i>	|
„ (Llandefaelog-fach) No. 3— <i>Discontd.</i>	|

RADNOR (19).

Llanbadarn Fynydd (Pen Ithon)— <i>Not rec.</i>		Llandrindod Wells.
		Rhayader Vicarage.
		„ (Abergwngy).

MONTGOMERY (11).

Llangadfan— <i>Discontinued.</i>	
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FLINT (7).

Caergwrle (Bryntirion)— <i>Observer moved.</i>	
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DENBIGH (19).

Denbigh (Ystrad)— <i>No reply.</i>		Llangyhanfal (Plâs Drân).
Colwyn Bay (Ingleside)— <i>Observer dead.</i>		Colwyn Bay (Abergele Road).

MERIONETH (7).

Dolgelly (Werngoch)— <i>Not received.</i>	|	Towyn (Peniarth).
„ (Dolmelynllyn)— <i>Not received.</i>	|	

CARNARVON (27).

Idwal Lake (North End) No. 9— <i>Gauge stolen.</i>	|	Dolwyddelan (Cwm Edno) No. 14.
Llanberis (Glyn Padarn)— <i>Observer moved.</i>	|	Snowdon (Llydaw) No. 12.
	|	„ (Cwm Glas) No. 4.
	|	Bangor (Bethesda).
		„ (Penrhyn Castle Gardens).

ANGLESEA (7).

ISLE OF MAN (10).

Bishops Court— <i>Not received.</i>		Douglas (Baldwin)
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ISLES OF SCILLY (2).

JERSEY (2).

GUERNSEY (6).

SCOTLAND.

WIGTON (6).

KIRKCUDBRIGHT (14).

Kirkcudbright (Senwick)—2 *g.*—*Rec. ceased.* |
 Dalbeattie (Munches)—*Not received.* |

DUMFRIES (13).

ROXBURGH (10).

Hawick (Wolfelee)—*Return imperfect.* |
 „ (Ladylaw)—*Not received.* |

SELKIRK (3).

PEEBLES (8).

| West Linton (Rutherford House).

BERWICK (7).

HADDINGTON (7).

Haddington (Asylum)—*No reply.* |

EDINBURGH (28).

Corstorphine.	
Edinburgh (George Square).	

LINLITHGOW (5).

Linlithgow (Nether Parkley) 2nd g.— <i>Discontd.</i>	Uphall.
	Bo'ness (Neidpath Cottage).

LANARK (20).

Uddingston (View Park)— <i>No reply.</i>	Leadhills.
	Lanark (Khyber Lodge).
	Bothwell.

AYR (18).

Maybole (Sauchrie)— <i>Observer moved.</i>	Dalry (Blair).
	Dunlop (Dunlop House).

RENFREW (29).

	Bishopton (Ingliston).
	Langbank (East Bank Gardens).

DUMBARTON (4).

Kirkintilloch (Newdyke)— <i>Observer moved.</i>	
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STIRLING (21).

Banton by Bonnybridge (Craigdouffie)—	Muiravonside Ho. [Linlithgow].
<i>Observer dead.</i>	Strathblane (Craigbarnet).
,, (Brickworks)— <i>Observer dead.</i>	,, (Blane field).
Larbert (Carron Park)— <i>Observer dead.</i>	Bridge of Allan.

BUTE (5).

	Kingarth (The Plan).
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ARGYLL, MAINLAND (17).

Lochgilphead (Poltalloch) 2nd gauge— <i>Rec. imp.</i>	Oban (Kilninver, Bragleenbeg).
Ballachulish (Craigrannoch)— <i>Observer moved.</i>	

ARGYLL, INSULAR (16).

Gigha— <i>Observer moved.</i>	| Islay (Rhuvaal).
Jura (Bay of Small Isles)— <i>Not received.</i>	| Tiree (Hylipol Manse).
„ (Ardfin)— <i>Observer moved.</i>	

CLACKMANNAN (3).

KINROSS (4).

FIFE (15).

Culross (Westgrange)— <i>Gauge stolen.</i>	Kilmany (Mountquhanie).
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PERTH (30).

Balquhiddy (Blaircreach)— <i>Not received.</i>	Ochtertyre [Stirling].
Loch Earn (St. Fillans)— <i>Observer moved.</i>	Dunkeld (Inverbraan).

FORFAR (37).

Craigton (Hillhead).

KINCARDINE (6).

ABERDEEN (16).

BANFF (5).

Dufftown.

ELGIN OR MORAY (6).

Forres (Grange Hall)— <i>Observer dead.</i>	Duffus House.
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NAIRN (4).

WEST ROSS AND CROMARTY (8).

Loch Torridon (Shieldaig)—*Record lost.*
 Lochbroom (Loch Drome)—*Not received.*
 Braemore House—*Not received.*
 „ (Foich Lodge)—*Not received.*

EAST ROSS AND CROMARTY (8).

WEST INVERNESS (21).

Moidart (Roshven Glenmutchkin) — <i>Rec. ceased.</i>	Skye (Portree House).
„ („) — <i>Record ceased.</i>	N. Uist (Lochmaddy).
Skye (Gesto Hospital, Edinbane — <i>Obsr. moved.</i>	
„ (Lynedale) — <i>Observer moved.</i>	
Benbecula — <i>Observer moved.</i>	

EAST INVERNESS (8).

Mucomir — <i>Observer abroad.</i>	
Laggan Locks — <i>Record ceased.</i>	
Fort Augustus — <i>Record ceased.</i>	
Loch Ness (Aberchalder) — <i>Record incomplete.</i>	
„ „ (Drumnadrochit) — <i>Gauge moved.</i>	
Inverness (High School) — <i>Record imperfect.</i>	

SUTHERLAND (11).

CAITHNESS (7).

ORKNEY (12).

SHETLAND (5).

Fair Isle, S. — <i>Record unreliable.</i>	Fetlar (The Manse).
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IRELAND.

CORK (13).

Mallow (Longueville)—*Discontinued.* |

KERRY (8).

| Mangerton.

WATERFORD (9).

| Sheskin [Carrick-on-Suir].

TIPPERARY (7).

LIMERICK (5).

Limerick (Mulgrave Street)—*Not received.* |

CLARE (10).

WEXFORD (6).

Oulart (Wells)—*Record lost.*

KILKENNY (8).

Inistioge (Woodstock)—*Record interrupted.* | Piltown (Bessborough).
| Kilkenny (Sion Villa)—*2nd g.*

WICKLOW (9).

CARLOW (3).

| Bagnalstown (Fenagh House) *2nd g.*

QUEEN'S COUNTY (1).

KING'S COUNTY (3).

Victoria Lock [Meelick]—
Gauge believed to be leaking. |

KILDARE (3).

| Castledermot.

DUBLIN (14).

| Carrickmines (Claremont).

MEATH (6).

WESTMEATH (4).

LOUTH (3).

LONGFORD (1).

GALWAY (10).

Galway (Queen's College)—*Not received.* | Recess Hotel.
 | Tuam (Castle Hacket).

ROSCOMMON (2).

MAYO (8).

| Westport (Murrisk Abbey).
 | Blacksod Point.

SLIGO (4).

LEITRIM (3).

CAVAN (6).

FERMANAGH (1).

| Enniskillen (Model School).

MONAGHAN (2).

ARMAGH (5).

DOWN (9).

ANTRIM (17).

| Ballynure (Ballyboley).

LONDONDERRY (6).

| Coleraine.

TYRONE (3).

DONEGAL (7).

Moville (Prospect Villa) — *Observer dead.*
 Malin Head — *Return imperfect.*

| Raphoe (Convoy House).
 Ardnadreen Rectory.

OBITUARY.

WE have to regret the loss during the past year of many friends of the Organization, and among them, naturally, several of those whose observations extend back to the early days, and in two cases to a period even prior to the publication of *English Rainfall, 1860*, and yet no one of the 168 observers who contributed to that first collection of records appears in the following list.

The names of those who had completed 30 or more years of observation are—

Dr. Tyack.....	of Chichester.....	47 years.
Dr. Nicol	„ Llandudno	39 „
Mr. R. C. Hankinson...	„ Southampton ...	38 „
Mr. J. R. Darsie.....	„ Liverpool	37 „
Rev. A. Bethune.....	„ Seaham	36 „
Mr. J. Kirby Hedges...	„ Wallingford	36 „
Mr. W. Blake	„ South Petherton	35 „
Rev. D. Dixon Brown..	„ Haltwhistle	31 „
Mr. P. Crowley	„ Croydon	30 „

while 8 other records extend over 25 years, making in all 17 observers who had regularly studied the weather for more than a quarter of a century.

In the list appears the name of only one lady, Miss E. A. Ormerod, whose researches on the subject of insect pests have proved of almost world-wide advantage to agriculturalists. She was, we believe, the first Lady Fellow of the Royal Meteorological Society, and the society was indebted to her for the publication of the Cobham Journals.

Observers Deceased to July, 1901.

NAMES AND STATIONS.	PERIOD OF OBSERVATION.	
	DATE.	Perfect Yearly Records.
Ames, H. St. V., Esq., Cote Ho., Westbury-upon-Trym	C 1872-78 T 1880-1900	28
Barbour, J., Esq., Glendarroch, Dalry	C 1895-99 C	5
Beaumont, Rev. Canon, Coleorton, Ashby-de-la-Zouch	C 1891-1900	10
Bell, Major, Thor, Birchington, Kent	C 1892-1900 T	9
Bethune, Rev. A., Seaham Vicarage	C 1865-1900	36
Biddell, G. A., Esq., C.E., Bishop's Hill, Ipswich.	C 1872-1900 T	29
Blake, W., Esq., Bridge, South Petherton, Somerset	C 1864-98 T	35
Brooks, Sir W. C., Bart., Forest of Glen Tana	1873-1900	26
Brown, Rev. D. Dixon, Unthank Hall, Haltwhistle	C 1869 imp-1900	31
Butler, I., Esq., Laurel Bank, King's Langley, Herts	C 1895-99 T	5
Cambridge, Colonel, Bloxworth House, Bere Regis.	1876-99 T	23
Clarke, Colonel, Thornbrough, Ryde	C 1882-99 T	18
Cropper, J., Esq., Ellergreen, Kendal	C 1887-1900	14
Crossmann, General Sir W., Cheswick, Ancroft	C 1892-99	8
Crowley, P., Esq., Waddon House, Croydon	C 1871-1900 T	30
Darsie, J. R., Esq., Grove Park, Liverpool	C 1864-1900 T	37
Digan, J., Esq., { Ballina, Killaloe	C 1877-85 imp T	21
{ Ross, O'Briensbridge	C 1885 imp -98 T	
Eyre, F. H. D., Esq., Mudeford, Christchurch	C 1879-1900	22
Farrer, G. D., Esq., Brayfield House, Olney	1898-1900	3
Gardiner, W., Esq., Rockshaw, Merstham	1895-1900	6
Graham, W. B., Esq., The Grove, Bedford	1889-1899 T	11
Hack, R., Esq., C.E., { Seething Wells, Surbiton...	1886-1900 C	25
	C 1894 imp -1900 C	
	1897-1900 C	
Hankinson, R. C., Esq., { Shirley Warren, Southmptn.	C 1862 imp -71 T	38
	C 1872-1900	
Hare, S., Esq., Cleveland Parade, Darlington	C 1873 imp -1900	27
	1881-99	
Heberden, Rev. J., Hinton Ampner, Alresford	C 1863 imp -1900	36
Hedges, J. Kirby, Esq., The Castle, Wallingford	1893-1900	8
Henderson, W. H., Esq., Nether Parkley, Linlithgow		
Bill, J. Hansford, Esq., Waldegrave House.		
Chewton Mendip	1896-1900	5
Hoare, R., Esq., Marden Hill, Tewin, Hertford	1889-1900	12
Laurie, J., Esq., Cadland, Southampton	1875-1900	26
Maclean, General, Rowlands, Wimborne	C 1893 imp -99 T	6
Montgomery, Colonel, Convoy House, Raphoe	1872-1900 T	29
Morres, Rev. A. P., St. Nicholas, Salisbury	C 1895 -99 T	5
Murray-Aynsley, Admiral, Hall Court, Botley	C 1884 imp -1900	16
Musgrave, Rev. Canon, Hascombe Rectory	1893-1900	8
Nicol, Dr., Warwick House, Llandudno	C 1859 -97 C	39
Ormerod, Miss E. A., LL.D., { Spring Grove, Isleworth	C 1878 imp -87 imp T	12
	{ Torrington House, St. Albans	
Peek, Sir C. E., Bart., Rousdon, Lyme Regis	C 1887 imp -91 T	
Peterkin, J. Grant, Esq., Grange Hall, Forres	C 1884-1900	17
Phillips, C. G. W., Esq., C.E., { Grand Sluice, Boston	1884-99 T	16
	1893-1900 C	
{ Lade Bank Engine, Leake	1893 1900 C	16

Observers Deceased to July, 1901—(continued).

NAMES AND STATIONS.	PERIOD OF OBSERVATION.	
	DATE.	Perfect Yearly Records.
Pike, L. W., Esq., Furzebrook, Corfe Castle.....	1878-99 T	22
Prichard, J. E., Esq., M.B., H.M. Prison, Horfield	C 1896-99 T	4
Pullar, F. P., Esq., Bridge of Allan.....	1900	1
Pym, G. E., Esq., Doods, Reigate	1882-1900	19
Ridsdale, Rev. T. M., Pyrford Vicarage.....	1894-98 T	5
Roberts, T. D., Esq., C.E., Sudbrook, Portskeuett	1890-97 C	8
Sconce, A., Esq., Holmwood, Dorking	C 1871 imp -96 T ...	25
Smith, B. Woodd, Esq., Branch Hill Lodge, Hampstead	1876-99 T	22
Smith, Harold, Esq., { Beverley Road, Hull..... Ingleside, Kenley, Surrey.. Ingleside, Colwyn Bay, North Wales	1875-87 imp T ...	23
	C 1888-96 imp T ...	
	C 1896 imp -99 T...	
	C 1892-99 C	
Stirling, Colonel J. S., Gargunnoch, Stirling.....	C 1891 imp -1900 ...	9
Stonham, T., Esq., Kemsing, Sevenoaks	1899 C ..	1
Taylor, T., Esq., Bocking, Braintree	C 1854-1900	47
Tyacke, Dr., Westgate, Chichester	1886-1899 C	14
Wadge, Mr. H., Hingston Down, Callington.....	1894-1900	7
Wakelin, J., Esq., Freebournes, Witham	C 1864-1877	26
Wheeler, Rev. Canon { Whitley Vicarage, N. Shields Hazelbury Bryan Rectory ...	1888-1900 imp T }	
Williams, Rev. J., Widecombe Vic., Ashburton ...	C 1869 imp -91 imp T	21

NOTE.—C indicates commencement of record and also its continuation, T its termination.

RAINFALL AND METEOROLOGY
OF
1900.

SYMBOLS EMPLOYED.

<i>H.R.S.</i>	Highland Railway Station.
H -	Hail.
L - - - -	Lightning.
R - - - -	Rain, Rainfall.
S - - - -	Snow.
T - - - -	Thunder.
TS - - - -	Thunderstorm.
TSS - - - -	Thunderstorms.

ON THE METEOROLOGY OF 1900.

WITH NOTES ON SOME OF THE PRINCIPAL PHENOMENA.

[These Notes should be read in conjunction with those on Heavy Rains in 1900.]

JANUARY.

1st.—*Kilkenny, Sion Villa* (XXI). Lower part of town flooded.

2nd.—*West Dean* (II). S.W. gale.—*Ashburton, Druid House* (V). TS in evening, with heavy R.—*Dowlais, Gwernllwyn* (XI). H.—*Coupar Angus* (XVI). R 1·48 in. ; all low-lying land flooded.

3rd.—*Redhill, Oxford Road* (II). T at midday.—*Blandford, Whatcombe* (V).—H storms.

6th.—*Emsworth, Redlands* (II). Squally gale from S. to S.W.—*West Dean* (II). S. gale.—*Tavistock, Whitchurch* (V). S. gale.—*Meltham, Harewood Lodge* (IX). In about 18 hours 1·80 in. of R fell.—*Slaidburn, Whiteholme* (IX). R 2·16 in. ; believed to be unprecedented.—*Neath, Fairy Land* (XI). R 2·19 in., a fall only exceeded twice in 17 years.

6th and 7th.—*Haslemere, Hazelhurst* (II).—Gale from S. to N.E.—*Dunkeld, Inverbraan* (XVI). S.

8th.—*Nottingham, Beeston Fields* (VII). Floods.—*Loch Ness, Drum-na-drochit* (XVIII). Distant T in W. at 7 p.m.

10th.—*Colmonell, Clachanton* (XIV).—T and L.

11th.—*Hastings, Guestling Rectory* (II). A perfect parhelion was observed ; brightest at 9 a.m., but partially visible until 11. Two concentric circles surrounded the sun, traversed by two bright bars, which passed at right angles to each other through the sun, a mock sun appearing at the upper, eastern and western intersections with the inner circle. Three reversed arcs appeared touching the outer circle, opposite the mock suns. The western side and the upper mock sun were the brightest parts, and these showed prismatic colours.—*Kilkenny, Sion Villa* (XXI). Fog.

13th.—*Kilkenny, Sion Villa* (XXI). Fog.

15th.—*Douglas, Woodville* (XI). H.—*Markree Observatory* (XXII). T and L.

17th.—*Abergwesyn* (XI). H.—*Dunkeld, Inverbraan* (XVI). S.—*Derry Castle* (XX). H and S.—*Enniscoe* (XXII). H.

18th.—*Chelford, Astle Hall* (VIII). H.

19th.—*Douglas, Woodville* (XI). S.E. gale.—*Kilkenny, Sion Villa* (XXI). H and high wind.—*Drumnadrochit* (XVIII). Distant T from 7 to 10 p.m.

22nd.—*Douglas, Woodville* (XI). W.S.W. gale.—*Watten, H.R.S.* (XIX). N.W. gale.

24th.—*Tavistock, Whitchurch* (V). N.W. gale.

25th—28th.—*Parkham, Melbury Moor* (V). H daily.

26th.—*Chelford, Astle Hall* (VIII). H.—*Eastgate, Vicarage* (X). Fearful blizzard.—*Douglas, Woodville* (XI). S.S.E. to S.S.W. gale.—*Colmonell, Clachanton* (XIV). S and H.

26th and 27th.—*Abergwesyn* (XI). H, sleet and S.

26th—28th.—*Dowlais, Gwernllwyn* (XI). S and H.—*Strathblane, Craigend Castle* (XV). S.

26th—Feb. 1st.—*Longmynd, Pole Cottage* (VI). S daily.

27th.—*Redhill, Oxford Road* (II). S and gale from N.—*Wolverton* (III). Six-and-a-half inches of S.—*Aspley Guise, Oaklands* (III). S.—*Ashburton, Druid House* (V). H in evening.—*Cirencester, Further Barton* (VI). H at 4 p.m.—*Stoke, Hartshill* (VI). H and S.—*Findern, The Longlands* (VII). S.—*Bolton, The Park* (VIII). H.—*Meltham, Harewood Lodge* (IX). T and L at noon.—*Colmonell, Clachanton* (XIV). T and L.—*Balquhiddier, Stronvar* (XVI). S two-and-a-quarter inches deep.—*Kilkenny, Sion Villa* (XXI). S.—*Markree Observatory* (XXII). T, L and H.

27th and 28th.—*Maresfield, Forest Lodge* (II). S.—*Lichborough Hall* (III). S.—*Buchlyvie, The Manse* (XV). S.—*Dunkeld, Inverbraan* (XVI). S.—*Enniscoe* (XXII). H.

27th—29th.—*Keswick, Shu-le-crow* (X). S.

27th—31st.—*Crowborough* (II).—S each day, heavy on 28th, when it was seven inches deep on the level.—*Waltham-le-Wolds* (VII). S daily.

28th.—*Haslemere, Hazelhurst* (II). Northerly gale, with S.—*Edenbridge, Falconhurst* (II). S.—*Brighton, Patcham* (II). S.—*Danny Park* (II). S.—*Bedworth Cemetery* (VI). S.—*Chelford, Astle Hall* (VIII). Slight fall of S, with N.E. wind.—*Moniaive, Maxwellton House* (XII). Four inches of S.

28th and 29th.—*Birchington, Thor* (II). Gale from N., which continued from N.E. on 29th, but moderated at night. *Forres, H.R.S.* (XVII). H and sleet.

30th and 31st.—*Glen-na-Smoel* (XXI). S.

31st.—*Keswick, Shu-le-crow* (X). S.—*Eskdale* (X). S.—*Borrowdale, Grange* (X). S.—*Colmonell, Clachanton* (XIV). S and H.

FEBRUARY.*

1st.—*Chelford, Astle Hall* (VIII). Sleet in the evening ; very cold.—*Seathwaite Vicarage* (VIII). S.—*N. Esk Reservoir* (XIII). S.—*Cahir, Duneske* (XX). S about three inches deep.

1st and 2nd.—*Farnham, Seale* (II). S, yielding 1·10 in., on 2nd.—*St. Ann's Heath* (II). S.—*Benenden, East End* (II). S.—*Hurstpierpoint, The College* (II). Five inches of S.—*Ryde, Thornbrough* (II). S.—*Emsworth, Redlands* (II). S.—*Slough, Upton* (III). S.—*Henley-on-Thames, Northfield House* (III). S.—*Salisbury, Brown Street* (V). S.—*North Cadbury* (V). S from midnight on 1st to midnight on 2nd.—*Taunton, Linden Grove* (V). S.—*Knockaderry* (XX). S.

1st—3rd.—*Midhurst, Borden Wood* (II). S.—*Grayshott* (II). S.—*Welford Park* (II). S.—*Highmore Vicarage* (III). S.—*Swerford* (III). S, eight inches deep on 3rd.—*Shalbourne, West Court* (V). S.—*Stow-on-the-Wold, Oddington* (VI). S.—*Glenam* (XX). S.

1st—4th.—*Berkhampstead, Rosebank* (III). S daily.—*Culham* (III). S daily.

1st—5th.—*Glen-na-Smoel* (XXI). S daily.

2nd.†—*Ealing, Gordon Road* (I). Four inches of S.—*Ealing, Castle Bar Road* (I). S, yielding ·70 in.—*Kensington, Edith Road* (I). Heavy S at night.—*Muswell Hill, Irish Corner* (I). S, yielding 1·12 in.—*Finchley, Etchingham Park* (I). S eight inches deep.—*Horsell, Lindisaye* (II). S, yielding 1·03 in.—*Bagshot, Hall Grove* (II). S nine inches deep measured at 7 a.m., though much of it had melted as it fell.—*Camberley, Waverley Court* (II). S.—*Ashurst, Stone Ness* (II). S, yielding 1·08 in.—*Rochester, Hoo St. Mary* (II). S.—*Crawley Down, The Grange* (II). S, yielding 1·11 in.—*Burgess Hill, Silverdale Road* (II). S three inches deep.—*Bournemouth, Kempsey* (II). S two inches deep.—*Kingsclere* (II). S, yielding ·98 in.—*Cookham Vicarage* (II). S seven inches deep.—*Temple House [Marlow]* (II). Heavy fall of S, lying to a depth of

* See also *Met. Mag.*, March, 1900, p. 18.

† See also *Met. Mag.*, Feb., 1900, p. 10, and March, 1900, p. 27.

seven-and-a-half inches, and doing much damage to trees and hedges.—*Baldock, Hitchin Street* (III). Seven-and-a-half inches of S.—*Wolverton* (III). S, yielding .66 in.—*Oxford, Magdalen College* (III). Heavy fall of S.—*Stanton St. John's, Woodperry* (III). S, yielding 1.20 in.—*Lichborough Hall* (III). S.—*Alconbury* (III). S.—*Aspley Guise, Oaklands* (III). S.—*Southend W. IV.* (IV). S.—*Haverling-atte-Bower* (IV). S.—*Chelmsford, Springfield Place* (IV.) Heavy S.—*Colchester, Lexden* (IV). S and sleet.—*Little Saxham* (IV). S.—*Swaffham* (IV). S.—*Bishop's Cannings* (V). S about two-and-three-quarter inches deep.—*Weymouth, Wyke Regis* (V). S.—*Bath, Fairley, Weston* (V). S.—*New Ross, Longraigue* (XXI). S.

2nd and 3rd.—*Kensington, Addison Gardens* (I). S.—*Ewhurst, Coneyhurst* (II). S lying six inches deep.—*Oxford, St. Giles* (III). S, six-and-a-half-inches deep at 9 a.m. on 3rd.—*Mears Ashby* (III). S.—*Cambridge, Benet Place* (III). S.—*Calne, High Street* (V). S.

2nd—5th.—*Waltham-le-Wolds* (VII). S daily.

3rd.—*Thurcaston Rectory* (VII). S four-and-a-half inches deep, yielding .38 in.—*Chelford, Astle Hall* (VIII). About one inch depth of S fell.

4th.—*Melrose, Asylum* (XII). S.

4th—11th.—*Watten, H.R.S.* (XIX). S daily.

5th.—*Killiney, Cloneevin* (XXI). Heavy fall of S.

6th—8th.—*Inveraray Castle* (XV). S.—*Buncrana, Rockfort* (XXIII). S.

7th and 8th.—*Douglas, Woodville* (XI). S.

7th—9th.—*Keswick, Bank* (X). S.—*Islay, Gruinart* (XV). S.—*Markree Observatory* (XXII). H showers.

7th—10th.—*Buttermere, Hassness* (X.) S daily.

7th—12th.—*Grange-over-Sands, Belmont* (VIII). S daily.

7th—13th.—*Lough Swilly, Carrablagh* (XXIII). S daily.

8th.*—*Chelford, Astle Hall* (VIII). Min. temp. 8°.—*Inveraray, Newtown* (XV). Heavy S for three hours.—*Balquhiddier, Stronvar* (XVI). S three inches deep.—*Dunmanway, Coolkelure* (XX). Twelve inches of S fell during the night.—*Derry Castle* (XX). S all day, very heavy at night : fully sixteen inches deep.—*Mullingar, Belvedere* (XXI). S.

8th and 9th.—*Moniaive, Maxwellton House* (XII). Seven inches of S on 8th, and three inches on 9th.—*Cork, Wellesley Terrace* (XX). The greatest fall of S since February 18th and 19th, 1892.—*Killarney, Woodlawn* (XX). S three inches deep.

* See also *Met. Mag.*, April, 1900, p. 37.

8th—10th.—*Eskdale* (X). S.—*Melrose, Asylum* (XII). S.—*Glenam* (XX). S.—*Glen-na-Smoel* (XXI). S.

8th—11th.—*Leek, Wall Grange* (VI). S daily.—*Coldstream, The Hirsell* (XIII). S daily.

9th*.—*Christchurch, Winkton Lodge* (II). Remarkable solar halo with rays passing through it in all directions.—*Chelmsford, Springfield Place* (IV). Heavy S.—*Colmonell, Clachanton* (XIV). S lying six-and-a-half inches deep.—*Kilkenny, Sion Villa* (XXI). Thick fog in afternoon.

9th and 10th.—*Longmynd, Pole Cottage* (VI). S.—*Birmingham, Botanic Gardens* (VI). S.—*Wilmslow, Parksyde* (VIII). S.—*Stonyhurst College* (VIII). S.—*Broughton-in-Furness* (VIII). S; about twelve inches deep on 9th.—*Hebden Bridge, Falling Royd* (IX). S fell to the depth of fourteen inches.—*Brampton, Denton House* (X). S.—*Llandefaelog-fach* (XI). S.—*Llanberis, Glyn Padarn* (XI). S nine inches deep on 9th and five inches on 10th.—*Moffat, Auchen Castle* (XII). S.—*Islay, Eallabus* (XV). The heaviest S storm for 5 years.—*Dunfermline, Keavil* (XVI). S.—*Knockaderry* (XX). S.—*Cahir, Duneske* (XX). S storm.—*Gorey, Courtown House* (XXI). S.—*New Ross, Longraigue* (XXI). S.

9th—11th.—*Rochdale, Park Observatory* (VIII). S.—*Wray Vicarage* (VIII). S.—*Middlesbrough, Ormesby* (IX). S, five inches deep on 9th.—*Dowlais, Gwernllwyn* (XI). S.

9th—12th.—*Keswick, Shu-le-crow* (X). S.

9th—14th.—*Rhiwbryfdir* (XI). S, being eight inches deep on 9th and ten inches deep on 11th.

9th—15th.—*Finsthwaite Vicarage* (VIII). S daily.—*Castletownshend, Glen Barrabane* (XX). Six inches of S remained frozen on the ground.

10th.*—*Ealing, Gordon Road* (I). Four inches of S.—*Ealing, Castle Bar Road* (I). S, yielding '64 in.—*Finchley, Etchingham Park* (I). S three-and-a-half inches deep.—*Ewhurst, Coneyhurst* (II). S.—*Pyrford, Pyrford Croft* (II). Heavy fall of S.—*Tenterden* (II). Coldest day of year. Min. temp. in shade 18°, on grass 12°.—*Maresfield, Forest Lodge* (II). S.—*Grayshott [Hindhead]* (II). S.—*Much Hadham* (III). S.—*Haverling Grange* (IV). S.—*Saffron Walden, Newport* (IV). S.—*Marlborough, Mildenhall* (V). S.—*Ashburton, Druid House* (V). S and graupel.—*Parkham, Melbury Moor* (V). T, H, R and S.—*Penzance, St. Clare* (V). H.—*Bath, Fairley, Weston* (V). S.—*Malvern Hills, Upper Wyck* (VI). S.—*Macclesfield, Swanscoe Park* (VIII). S.—*Chelford, Astle Hall* (VIII). S, with S.E. gale. Min. temp. 22°.—

* See also *Met. Mag.*, April, 1900, p. 37.

Rochdale, Fieldhead (VIII). Heavy S, eight-and-a-half inches deep.—*Meltham, Harewood Lodge* (IX). Thirteen inches of S, being the deepest since December 6th, 1882.—*Goldsborough Hall* (IX). About twelve inches of S.—*Driffield, Beverley Road* (IX). Five inches of S.—*Oystermouth, Newton* (XI). S.—*Llwydiarth Esgob* (XI). S ten inches deep.—*Loch Shiel, Glenaladale* (XVIII). Min. temp. 12° , which is $2^{\circ}\cdot 0$ lower than that of the winter of 1894-5, and is believed to be the lowest since 1880-1.—*Kilkenny, Sion Villa* (XXI). Heavy fall of S, six inches deep.

10th and 11th.—*Lowestoft, Corton* (IV). S.—*Torquay, Watcombe Park* (V). S.—*Burton, Hoar Cross* (VI). S.—*Nottingham, Mapperley Hill* (VII). S.—*Harrogate, Harlow Hill* (IX). S.—*Ripley Castle* (IX). S.—*Killiney, Cloneevin* (XXI). Heavy falls of S.

10th—14th.—*Llanelly, Cwmlledi W.W.* (XI). S daily.

10th—16th.—*Baldersby* (IX). S twelve inches deep.

11th.—*Chelford, Astle Hall* (VIII). S to a depth of six-and-a-half-inches fell during the night, and drifted by strong N.N.W. winds, blocking many of the smaller roads.—*Knaresborough, Farnham Lodge*. (IX). One foot of S.—*Bedale, Thorpe Perrow* (IX). Very heavy fall of S, one foot deep.—*Sunderland, West Hendon House* (X). S, reaching a total depth of twelve inches, the maximum for the winter.—*Aberdare, The Mardy* (XI). S.—*Killarney, Woodlawn* (XX). S eight to ten inches deep.

11th—15th.—*Menheniot, Coldrenick House* (V). S daily.

11th—20th.—*Manse of Fetlar* (XIX). Much S from S.S.E.

12th.—*Broughton-in-Furness* (VIII). S.—*Kintail, The Glebe* (XVIII). S.

12th—15th.—*Longmynd, Pole Cottage* (VI). S daily. On 15th a terrific storm and furious S.W. gale raged all day.

12th—16th.—*Bradwell-on-Sea, Bradwell Hall* (IV). S daily, yielding 1·03 in.

13th.*—*Ealing, Castle Bar Road* (I). S yielding ·55 in.—*Finchley, Etchingham Park* (I). S about five-and-a-half inches deep.—*Farnham, Seale* (II). S yielding ·65 in.—*Maidstone, Ulcombe Place* (II). S.—*Tillington, River House* (II). S.—*Carisbrooke, Rainsgrove* (II). S.—*Christchurch, Winkton Lodge* (II). S with gale.—*Newbury, Welford Park* (II). S.—*Much Hadham* (III). S about four-and-a-half inches deep.—*Baldock, Hitchin Street* (III). Twelve inches of S.—*Eton, Tangier Island* (III). S.—*Wallington, Pyrton Manor* (III). Driving S.—*Swerford* (III). S ten inches deep.—*Maxey Vicarage* (III). S.—*Odsey [Royston]* (III). S.

—*Billericay, Burghstead Lodge* (IV). S.—*Holt, The Yuccas* (IV). S.—*Salisbury, Brown Street* (V). S.—*Calne, High Street* (V). S.—*Weymouth, Wyke Regis* (V). S.—*Tavistock, Whitchurch* (V). Heavy gale from E. with S drifts.—*Bampton, Huntsham* (V). S.—*Penzance, St. Clare* (V). S.—*North Cadbury Rectory* (V). A big S fall from 2.30 p.m. to day-break.—*Clifton, Pembroke Road* (VI). S about nine inches deep, yielding 1.00 in.—*Clifton, Oakfield Road* (VI). S yielding .76 in.—*Cirencester, Dollarward House* (VI). S yielding .61 in.—*Cheltenham, Southam Villa* (VI). The heaviest S fall since January, 1881.—*Lugwardine, The Laurels* (VI). S.—*Horncastle, Hemingby* (VII). S.—*Doncaster, Magdalens* (IX). S.—*Llanfrechfa Grange* (XI). Steady fall of S beginning at 4.30 p.m.—*Dowlais, Gwernllwyn* (XI). Blizzard in which fourteen inches of S fell, stopping the works.—*Knockaderry* (XX). S.—*Killiney, Cloneevin* (XXI). Heavy fall of S.—*Balbriggan, Ardgillan* (XXI). S.

13th and 14th.—*Kensington, Edith Road* (I). Violent N.E. gale with heavy S.—*Haslemere, Hazelhurst* (II). Gale from N. with S.—*Horsell, Lindisaye* (II). S yielding .86 in.—*Oxford, St. Giles* (III). S eight inches deep at 9 a.m. on 14th.

13th—15th.—*Lowestoft, Corton* (IV). S.—*Ross, The Graig* (VI). S, beginning about 4 p.m. on 13th, eight-and-a-half inches deep on 14th, and turning to R on 15th.—*Malvern Hills, Upper Wych* (VI). S.—*Atherstone* (VI). S.—*Worksope, Hodsock Priory* (VII). S.—*Macclesfield, Swanscoe Park* (VIII). S and sleet.—*Middlesbrough, Ormesby* (IX). S.—*Llanvihangel Court* (XI). S.

13th—16th.—*Cookham Vicarage* (II). S.—*Henley, Assenton* (III). S and sleet.—*Ripley Castle* (IX). S daily.—*Thirsk, Sowerby* (IX). S daily.

14th.—*Bournemouth, Kempsey* (II). S, one inch deep.—*Woodchester, Culver House* (VI). Eighteen inches of S on the level.—*Nottingham, Beeston Fields* (VII). Five inches of S.—*Findern, The Longlands* (VII). After S in the night, with a storm of wind, the fields were full of balls of S of different sizes scattered in all directions.

14th and 15th.—*North Walsham, E. Ruston Grange* (IV). Fearful S storms and blizzard.—*Ballybrack, Streamville* (XXI). During twenty-four consecutive hours 1.15 in. of R fell.

14th—16th.—*Kirkby Lonsdale, Barbon Manor* (X). S.

14th—17th.—*Dunkeld, Inverbraan* (XVI). S.

15th.*—*Kensington, Edith Road* (I). Violent S.E. gale.—*Haslemere, Hazelhurst* (II). Gale from S.E. to S.W.—*Rochester, Hoo St.*

* See also *Met. Mag.*, April, 1900, p. 37.

Mary (II). S.—*Emsworth, Redlands* (II). Gale S.E. to S.—*Much Hadham* (III). S.—*Pitsford, Sedgebrook* (III). A very rough day, with much S.—*Cromer, Northrepps Hall* (IV). Heavy S storm.—*Sturminster Marshall, Bailie House* (V). Between 9 a.m. and 4.30 p.m. one inch of R fell.—*Ashburton, Druid House* (V). R 2.44 in. Great and very destructive floods.—*Tavistock, Whitchurch* (V). In fifteen hours 2.74 in. of R fell, causing, with melting S, high floods on the rivers Tavy and Walkham.—*Launceston, Altarnon* (V). Heavy R. After three weeks' frost and deep S, a sudden thaw produced a maximum flood in Penpont Valley. Low-lying houses were flooded. *North Cadbury Rectory* (V). Between 2 a.m. and 5 p.m. about 1.25 in. of R fell on a quantity of S which was lying on frozen ground, and a great flood resulted.—*Nottingham, Beeston Fields* (VII).—S.W. gale. S and R all day.—*Chelford, Astle Hall* (VIII). Furious gale from S.E. Heavy R and S. Bitterly cold, with min. temp. 27°.—*Broughton-in-Furness* (VIII). A fearful blizzard. R 1.76 in.—*Meltham, Harewood Lodge* (IX). Strong gale from S.S.E., with wet S for eight-and-a-half hours, from 8.45 a.m. Bar. fell .878 in. in twelve hours.—*Goldsborough Hall* (IX). Heavy fall of S.—*Thixendale* (IX). A fierce blizzard from noon to 9 p.m.—*East Layton* (IX). S. A blizzard raged the whole day; roads were blocked in all directions, and other damage was done.—*Middlesbrough, Ormesby* (IX). Blizzard with heavy S, which commenced falling at 6.30 a.m., with S.E. gale, and yielded .56 in. of R. Temp. between 35° and 34°.—*Morpeth, Bothal-haugh* (X). S storm.—*Pawston [Coldstream]* (X). R, sleet, H and S.—*Borrowdale, Grange* (X). R 5.06 in., mostly S.—*Brampton, Denton House* (X). Wind changed from S.W. to S.E., and blew a blizzard, blocking roads and railways with S.—*Treherbert, Tyn-y-waun* (XI). Heavy R and S. Total 3.48 in.—*Dowlais, Gwernllwyn* (XI). Blizzard, very stormy; yielding 2.35 in.—*Douglas, Woodville* (XI). S.E. gale.—*New Galloway, Glenlee* (XII). Sleet and S all day; fall 2.00 in.—*Lilliesleaf, Riddell* (XII). Great S storm, the worst remembered in 60 years, destroying all telegraphic communication, and much hampering railways and roads for days. It came on at 11 a.m. and lasted till midnight; at 5.40 p.m. the wind was travelling 45 miles per hour.—*Linkithgow, Nether Parkley* (XIII). Blizzard.—*Balquhiddier, Stronvar* (XVI). S nine inches deep.—*Coupar Angus Station* (XVI). Very severe storm of sleet and S, causing destruction such as had never before been experienced. All the telegraph wires were encased in ice, and appeared like ropes about two inches in diameter.

Blair-Atholl (XVI). Great S storm. Railway blocked for twelve hours.—*Drumnadrochit* (XVIII). A gale of short duration, but unusually violent. It unroofed a number of houses covered with corrugated iron. In one case the roof, wood-work and all was carried bodily up a steep hill-side, over the public road, and dropped in a field fifty yards away.

15th and 16th.—*Melrose Asylum* (XII). S.

16th.—*West Dean* (II). S.E. gale.—*Cirencester, Further Barton* (VI). Fresh W. gale.—*Nottingham, The Castle* (VII). H and S.—*Dowlais, Gwernllwyn* (XI). H and L.—*Llandovery* (XI). T and L.—*Douglas, Woodville* (XI). N.W. gale.—*Manse of Fetlar* (XIX). Heavy gale and tidal wave doing much damage throughout the Shetlands.—*Miltown Malbay* (XX). T and L.—*Kilkenny, Sion Villa* (XXI). H.

16th—19th.—*Penrith, Greystoke, Belle Vue* (X). S daily.

16th—21st.—*Malham Tarn* (IX). S daily.

17th.—*Guestling Rectory* (II). Heaviest R of year, 1·27 in. in twenty-four hours.—*Temple House [Marlow]* (II). Floods, the gardens under water.—*Swerford* (III). Several heavy peals of T in N.W. at about 2 a.m.

18th.—*Nottingham, Beeston Fields* (VII). Floods.

18th and 19th.—*Pawston [Coldstream]* (X). S.

18th—21st.—*Longton, The Meir* (VI). S.—*Logie Coldstone Manse* (XVII). S daily.

19th.—*Huslemere, Hazelhurst* (II). Gale from S.E. to S.W.—*Birchington, Thor* (II). Heavy S.W. gale.—*Ross, The Graig* (VI). In six days, ending 19th at 6 p.m., 3·68 in. of R and S fell, which is believed to be a record for February and is very rare for any month.—*Chelford, Astle Hall* (VIII). Blowing hard from W. Heavy R and floods everywhere.—*Drumnadrochit* (XVIII). S with E. gale.

19th and 20th.—*Lilliesleaf, Riddell* (XII). S fell very heavily.—*Nairn, Achareidh* (XVII). S.

19th—21st.—*Waltham-le-Wolds* (VII). S.

19th—22nd.—*N. Esk Reservoir [Penicuik]* (XIII). S daily.

20th.—*Lewes, Saxonbury* (II). TS.—*Burton, Hoar Cross* (VI). S.—*Market Overton* (VII). S.—*Dunfermline, Keavil* (XVI). S.

20th—22nd.—*Moffat, Auchen Castle* (XII). S.

21st.—*Knaresborough, Farnham Lodge* (IX). S.—*Hury Reservoir* (IX). S.—*Dunkeld, Inverbraan* (XVI). S.—*Derry Castle* (XX). L in S.E. to S.W. at night.—*Galway, Queen's College* (XXII). T and L.—*Westport, Murrisk Abbey* (XXII). TS.

21st and 22nd.—*Strathblane, Craigend Castle* (XV). S.

22nd.—*Burgh Castle Rectory* (IV). In 10 mins. .08 in. of R fell.—*Bedale, Thorpe Perrow* (IX). Two inches of S during the night.—*Cahir, Duneske* (XX). Gale with T and L.—*Doo Castle* (XXII). T, L and H. Tempestuous night.

23rd.—*Nenagh, Castle Lough* (XX). S.S.W. gale.—*Doo Castle* (XXII). A strong gale set in at 10 a.m. ; trees were levelled, and stacks of hay and corn more or less injured.

24th.—*Hythe* (II). TS with H and R at 3 a.m.—*Bolton, The Park* (VIII). Slight T at 5 p.m.—*Miltown Malbay* (XX). L.—*Doo Castle* (XXII). T and L.

26th.—*Cirencester, Further Barton* (VI). T in S. in the evening.—*Scalby* (IX). Blizzard ; S melted as it fell. Wind very high. Severe floods followed with the immediate thaw.—*Bishop Auckland, The Castle* (X). S yielding 1.27 in.

26th—28th.—*Penrith, Greystoke, Belle Vue* (X). S.

MARCH.

14th—16th.—*Belfast, Springfield* (XXII). Gales from N.W. to W.

14th—19th.—*Wolverhampton, Tettenhall* (VI). S daily.

15th.—*Stonyhurst College* (VIII). H and S.

15th—16th.—*Abergwesyn* (XI). S and H.—*Logie Coldstone Manse* (XVII). S.—*Markree Observatory* (XXII). H showers.

15th—18th.—*Crossmolina, Enniscoe* (XXII). S daily.

15th—19th.—*Killybegs* (XXIII). S daily.

16th.—*Watten, H.R.S.* (XIX). S three inches deep.

16th and 17th.—*Chelford, Astle Hall* (VIII). S. Min. temp. 18° on 17th.—*Killiney, Cloneevin* (XXI). Heavy falls of S.

16th—18th.—*Coldstream, The Hirsell* (XIII). S.

16th—19th.—*Ross, The Graig* (VI). S daily.—*Fearn, Lower Pitkerrie* (XVIII). S daily.

17th and 18th.—*North Ockendon* (IV). S.—*Burgh Castle Rectory* (IV). S.—*Blandford, Whatcombe* (V). S storms.—*Forton, Ratcliffe Cottage* (VIII). S.—*Knaresborough, Farnham Lodge* (IX). S.—*Abergwesyn Vicarage* (XI). S.—*Glenam [Clonmel]* (XX). S.

17th—19th.—*Ashburton, Druid House* (V). Heavy S.—*Menheniot, Coldrenick House* (V). S daily.—*Wellington, The Avenue* (V). S.—*Wolverhampton, Wrottesley* (VI). S.—*Miltown Malbay* (XX). S.—

Gorey, Courtown House (XXI). S.—*Balbriggan, Ardgillan* (XXI). S.—*Moynalty, Westland* (XXI). S.

17th—20th.—*Llanelly, Cwmlliedi W.W.* (XI). S daily.

18th.—*Staines, Knowle Green* (I). S.—*Haslemere, Hazelhurst* (II). S.—*Oxshott* (II). S.—*Tenterden* (II). Very heavy R, .88 in., doing much harm to the ground.—*Rochester, Hoo St. Mary* (II). S.—*Maresfield, Forest Lodge* (II). Heavy fall of S, yielding .65 in.—*Emsworth, Redlands* (II). S. gale and S.—*Berkhampstead, Rosebank* (III). S.—*Slough, Upton* (III). About one inch of S.—*Oxford, St. Giles* (III). Heavy S storm from 4.30 to 6 p.m.—*North Walsham, E. Ruston Grange* (IV). Severe S storm.—*Empacombe [Devonport]* (V). H and S.—*Goldsborough Hall* (IX). Heavy fall of S during the night.—*Thixendale* (IX). Coldest day of the year. Min. temp. 5°.—*Buttermere, Hassness* (X). S.—*Llandovery* (XI). Heavy S.—*Balbriggan, Laragh* (XXI). S.—*Brecknock, Llandefaelog-fach* (XI). Heavy fall of S between noon and 5 p.m.—*Dunkeld, Inverbraan* (XVI). S.—*Castledermot* (XXI). S.

18th and 19th.—*Muswell Hill* (I). S.—*Haslemere, Lower Street* (II). S.—*Parkham, Melbury Moor* (V). S and H.—*Llanvihangel Court* (XI). S.

18th—21st.—*West Dean* (II). S and H. S.E. gale on 19th.—*Dowlais, Gwernllwyn* (XI). S daily.—*Nairn, Achareidh* (XVII). S.

18th—23rd.—*N. Esk Reservoir* (XIII). S daily.

18th—28th.—*Logie Coldstone Manse* (XVII). S daily.

19th.—*Christchurch, Winkton Lodge* (II). T and L followed by a gale from N.E.—*Emsworth, Redlands* (II). R, H, L and T.—*Longmynd, Pole Cottage* (VI). S.—*Chelford, Astle Hall* (VIII). S. Min. temp. 22°.—*Melrose Asylum* (XII). S.—*New Ross, Longraigue* (XXI). H.

19th and 20th.—*Tavistock, Whitchurch* (V). T and L.

21st.—*Ashburton, Druid House* (V). Heavy S and H.—*Kilkenny, Sion Villa* (XXI). Thaw set in after four days of S.

24th—27th.—*Waltham-le-Wolds* (VII). S daily.

25th.—*Crossmolina, Enniscoe* (XXII). H.

25th and 26th.—*Dunkeld, Inverbraan* (XVI). S.

25th—27th.—*Corwen, Rhug* (XI). S.

25th—28th.—*Middlesbrough, Ormesby* (IX). S daily.

26th.—*Chelford, Astle Hall* (VIII). Heavy S in afternoon.—*Middlesbrough, Ormesby* (IX). Heavy S, yielding .28 in. of R.—*North Shields, Tynemouth* (X). S and H.

26th and 27th.—*Longton, The Meir* (VI). S.

27th.—*Camberley, Waverley Court* (II). S.—*Buttermere* (V). S.—

South Molton, Castle Hill School (V). S.—*Uttoxeter, Brook House* (VI). S.—*Broughton-in-Furness* (VIII). S.—*Moniaive, Maxwellton House* (XII). Two inches of S.

APRIL.

2nd.—*Rendlesham Hall* (IV). S storms.

2nd and 3rd.—*Logie Coldstone Manse* (XVII). S.

3rd and 4th.—*West Dean* (II). W. gale.—*Little Saxham* (IV). H.

3rd—5th.—*Hythe* (II). H.

4th.—*Emsworth, Redlands* (II). T and L.—*Haslemere, Hazelhurst* (II). H.—*Stotfold [Baldock]* (III). H.

4th and 5th.—*Crowborough* (II). H.

5th.—*Redhill, Oxford Road* (II). Thick fog from 11 a.m. to 1 p.m.—*Odsey [Royston]* (III). S, H and T.—*Rendlesham Hall* (IV). TS.—*Norwich, Brundall* (IV). A violent TS occurred at Norwich. The first flash was seen about 11.50 a.m. and the discharges were frequent for about twenty minutes. Afterwards great darkness came on, with very brilliant L. Heavy R accompanied the storm, which seemed nearly overhead, being worst to the W. of the city. The storm abated about 3 p.m., but T was heard at intervals at Brundall till after 5.30 p.m.—*Clifton, Pembroke Road* (VI). H storms.—*Nottingham, Beeston Fields* (VII). H and T.—*Chelford, Astle Hall* (VIII). H in morning.—*Goldsborough Hall* (IX). T and H.

5th and 6th.—*Colchester, Lexden* (IV). T and L.

6th.—*Cahir, Duneske* (XX). T.

9th.—*Fort Augustus, St. Benedict's* (XVIII). Slight H and S.

11th.—*West Dean* (II). S.W. gale.

11th and 12th.—*Emsworth, Redlands* (II). S.W. to W. gale.

13th.—*Kensington, Edith Road* (I). Strong S.W. gale.—*West Dean* (II). W. gale.—*Colchester, Lexden* (IV). N.W. gale.—*Nottingham, Beeston Fields* (VII). N.W. gale.—*Chelford, Astle Hall* (VIII). N.W. gale at night.

13th and 14th.—*Thorney, Wryde House* (III). Gale and clouds of dust; dykes in many cases being filled up level in open situations.

14th and 15th.—*Llanvihangel Court* (XI). W.N.W. gale.

15th and 16th.—*Haslemere, Hazelhurst* (II). W. gale.—*Markree Observatory* (XXII). H.

16th.—*Redhill, Oxford Road* (II). T, L and H.—*Wallington* (II). TS.—*Crowborough* (II). H at 0.30 p.m. and at 4 p.m.—*Croydon, Duppas*

House (II). T and H.—*West Dean* (II). W. gale.—*Colchester, Lexden* (IV). W. to N.W. gale.—*North Walsham, E. Ruston Grange* (IV). TS.—*Tavistock, Whitchurch* (V). N.W. gale.—*Horncastle, Hemingby* (VII). T.

17th.—*Chelford, Astle Hall* (VIII). First appearance of swallow and marten.

22nd.—*Bournemouth, Kempsey* (II). Max. temp. in shade, 72°·1.

23rd.—*Tavistock, Whitchurch* (V). T.—*Cirencester, Further Barton* (VI). T and L two miles to S.W.

27th.—*Christchurch, Winkton Lodge* (II). Remarkable range of temp., 39 degrees ; max. 72° at noon, min. 33° at night.

29th.—*Wellesley Terrace* (XX). Some L at night.

30th.—*Watten, H.R.S.* (XIX). Gale at night, S.E. then W.

MAY.

1st.—*Douglas, Woodville* (XI). Bitter N.N.E. gale at night.—*Ballachulish, Ardsheal* (XV). S gale.

3rd.—*Redhill, Oxford Road* (II). H about 6 p.m.—*St. Ann's Heath, Sanatorium* (II). H.—*Tavistock, Whitchurch* (V). S.S.E. gale.—*Lifford, Sewage Works* (VI.) In 2 mins. ·09 in. of R fell.—*King's Heath, Cambridge Road* (VI). In 3 mins. ·09 in. of R fell.—*Chelford, Astle Hall* (VIII). Violent N.W. squalls, with R.—*Bolton, The Park* (VIII). Slight T at 4.30 p.m.—*Rochdale, Fieldhead* (VIII). In 4 mins. 30 secs. ·07 in. of R fell.—*Goldsborough Hall* (IX). T.—*Thixendale* (IX). T.—*Nenagh, Castle Lough* (XX). S.W. gale.

3rd and 4th.—*Douglas, Woodville* (XI). Violent E.S.E. gale.—*Kilkenny, Sion Villa* (XXI). Storm, with H on 3rd.

4th.—*Tavistock, Whitchurch* (V). S.S.W. gale.—*Nenagh, Castle Lough* (XX). W. gale.

5th.—*Welwyn, Datchworth Rectory* (III). Partial drought for thirty days, with ·29 in. of R, ended.

6th.—*Hawkhurst, Sandhurst Rectory* (II). T.—*Wallington* (II). T and L.—*Birchington, Thor* (II). Great dust storm at 7.30 p.m. from S.E., lasting only a few minutes ; followed by T, L and R.—*Sheppey, Leysdown* (II). TS in evening.—*Crowborough* (II). T in the afternoon.

7th.—*Markree Observatory* (XXII). T in evening.

8th.—*Heathfield, Tottingworth Park* (II). In 30 mins. ·24 in. of R fell.—*Tavistock, Whitchurch* (V). T at 0·20 p.m.—*Taunton, Linden Grove* (V). TS with ·61 in. of R in 2 hours 25 mins.—*North Cadbury*

Rectory (V). Severe TS from 2.45 to 4.45 p.m., during which .81 in. of R fell, and more afterwards. The storm came from S.E., over Templecombe, the worst of it passing a mile-and-a-half S. of North Cadbury. Not less than 2.00 in. of R and H fell at South Cadbury and Sutton Montis. A stack was fired by L at Weston Bampffield. — *Clifton, Pembroke Road* (VI). TS with H, from 1.30 to 2 p.m. — *Brecknock, Llandefaelog-fach* (XI). T.

8th and 9th.—*Douglas, Woodville* (XI). N.E. gale.

9th.—*Llanfrefcha Grange* (XI). T and L at 2.30 p.m.

12th.—*Bolton, The Park* (VIII). Slight S in the morning. — *Forres, H.R.S.* (XVII). H showers.

13th.—*Thixendale* (IX). Slight shower of S.

13th and 14th.—*Tavistock, Whitchurch* (V). E.N.E. gales.

16th.—*Douglas, Woodville* (XI). Moderate N.E. gale at night.

17th and 18th.—*Colchester, Lexden* (IV). T and L.

18th.—*Logie Coldstone Manse* (XVII). S.

21st.—*Tavistock, Whitchurch* (V). S.S.W. gale.

22nd.—*West Dean* (II). Heavy H showers. — *Balquhiddier, Stronvar* (XVI). T at 5.30 p.m. — *Cork, Wellesley Terrace* (XX). T and L.

22nd—24th.—*Cirencester, Further Barton* (VI). T.

23rd.—*Bolton, The Park* (VIII). Moderate T and L.

23rd and 24th.—*Wisbech, Elm* (III). TSS.

24th.—*Croydon, Duppas House* (II). H. — *Emsworth, Redlands* (II). T and L in S.W. at 4 p.m. — *Odsey [Royston]* (III). T. — *Findern, The Longlands* (VII). TS. — *Knaresborough, Farnham* (IX). H.

24th and 25th.—*Horncastle, Hemingby* (VII). T.

JUNE.

1st.—*Birchington, Thor* (II). N. gale with R all day. — *Emsworth, Redlands* (II). N. to N.E. gale. — *Great Glemham* (IV). R 1.65 in. being the largest fall in twenty-four hours during the last ten years.

2nd.—*Tavistock, Whitchurch* (V). L.

3rd.—*Waterville, Iveragh Lodge* (XX). T and L.

3rd and 4th.—*Killarney, Woodlawn* (XX). Destructive TSS.

4th.—*Tavistock, Whitchurch* (V). T and L.

4th and 5th.—*Ashburton, Druid House* (V). L.

5th.—*Odsey [Royston]* (III). L.

6th.—*Cirencester, Further Barton* (VI). T at 6 p.m. — *New Galloway,*

Glenlee (XII). T at 0.30 p.m.—*Balquhiddar, Stronvar* (XVI). T from 0.30 to 1.15 p.m.

7th.—*Frimley Green, Ridgemount* (II). TS.—*Hambledon, Rosecroft* (II). TS.—*Swerford* (III). T and H.—*Odsey [Royston]* (III). T and H.—*Colchester, Lexden* (IV). T and L.—*Coventry, Priory Row* (VI). TS.—*Findern, The Longlands* (VII). TSS.—*Chelford, Astle Hall* (VIII). TS.—*Wilmslow, Parksyde* (VIII). TS.—*Brampton, Denton House* (X). T and L.

8th.—*Emsworth, Redlands* (II). W. gale.

9th and 10th.—*Frimley Green, Ridgemount* (II). T.

10th.—*Ross, The Graig* (VI). T.

10th—12th.—*Cirencester, Further Barton* (VI). TSS.

10th—13th.—*Balquhiddar, Stronvar* (XVI). TSS.

11th.*—*Kensington, Edith Road* (I). The hottest June day in seventeen years; max. temp. 87°·8.—*West Dean* (II). TS.—*Oxford, St. Giles* (III). T and L at 7.15 p.m.—*Blisworth, Grafton House* (III). Terrific TS in the evening; ·84 in. of R fell in 45 mins.—*Burton, Hoar Cross* (VI). R and H; the hailstones weighed six to the lb. The R was so heavy that the drains could not carry it off fast enough, and several cottages were flooded.—*Uttoxeter, Brook House* (VI). T and 1·05 in. of R.—*Coventry, Priory Row* (VI). Heavy TS.—*Whitacre, Birmingham W.W.* (VI). H and R; total, 2·50 in.—*Kibworth Harcourt House* (VII). A violent TS began at 2.45 p.m. and ceased at 5.15 p.m., when 1·45 in. of R was measured. It began again at 7.45 p.m., and was over before 10 p.m., when ·82 in. more had fallen, making a total of 2·27 in. in less than five hours. Great floods in the low lands. Wind S. and S.E.—*Thurcaston Rectory* (VII). TS with H and 1·13 in. of R.—*Ashby-de-la-Zouch, Cole Orton* (VII). Terrific H storm and 1·73 in. of R. Every bit of glass about was smashed.—*Plumtree, Normanton-on-Wolds*. (VII). During a heavy storm of H and R 1·38 in. fell in 2 hours 5 mins.—*Nottingham, Beeston Fields* (VII). T, L and R at 4.30 p.m. with ·93 in. of R; R again at 9 p.m., making a total of 1·31 in.—*Chellaston* (VII). In seven hours 2·56 in. of R fell, being the heaviest in one day since records commenced in 1878.—*Bolton, The Park* (VIII). TS from 2.30 to 5 p.m., of no great intensity, but from 9 to 10.30 p.m. there were loud concussions and brilliant L of various forms and colours. The TS passed from S.E. to N.W., the centre being over the N. of Bolton about 9.45 p.m.—

* See also *Met. Mag.*, July, 1900, p. 86.

Meltham, Harewood Lodge (IX). T and L at 1.50 p.m., and severe TSS from 4 p.m. to 11 p.m. Very brilliant and frequent L—as many as eighteen flashes per minute.—*Goldsborough Hall* (IX). Temp. before noon 84°. A heavy TS commenced at 4.30 p.m. lasting till late at night.—*Knaresborough, Farnham* (IX). Severe TS; the house was struck at 10.30 p.m.—*Baldersby* (IX). T and L at 6 p.m. and midnight.—*Aysgarth Vicarage* (IX). Heavy TS.—*East Layton* (IX). TS.—*Brampton, Denton House* (X). T and L.—*Douglas, Woodville* (XI). TS in the night.—*Eigg, Kildonan* (XVIII). TS.

11th and 12th.—*Wickham, The Croft* (II). TSS.—*Oakley* (II). Severe TSS.—*Highmore Vicarage* (III). TSS.—*Pitsford, Sedgebrook* (III). Very severe TSS with very large H stones at noon on 11th.—*Odsey [Royston]* (III). TSS.—*Wilmslow, Parksyde* (VIII). TSS.—*Seathwaite Vicarage* (VIII). T and L.—*Upper Midhope* (IX). TSS.—*Keswick, Shu-le-crow* (X). Severe TSS.—*Dalry, Blair* (XIV). T and vivid L.

11th—13th.—*Lilliesleaf, Riddell* (XII). TS of considerable severity.—*Strathblane, Craigend Castle* (XV). TSS.—*Inveraray, Newtown* (XV). TSS.

12th.—*Finchley, Etchingham Park* (I). L and T between 10.30 and 11 a.m., and T again at 10 p.m.—*Abinger Hall* (II). Severe TS about 8 p.m., lasting an hour. The L was almost incessant, and the T unusually loud, and sometimes directly overhead.—*Frimley Green, Ridgemount* (II). TS in S.E. at 8.30 p.m.—*Wallington* (II). TS.—*Birchington, Thor* (II). T and L.—*Crowborough* (II). Sharp TS for 15 mins., during which .28 in. of R fell.—*Emsworth, Redlands* (II). T and L in S. from 8 to 9 p.m. and in E. from 9.45 to 10.30 p.m.—*Hambleton, Rosecroft* (II). TS.—*Hungerford, Kintbury* (II).—About 3 p.m. a terrific TS broke over this neighbourhood with hurricane wind from W.S.W., and R in torrents, such as never was seen in this district before. The area affected measured six miles by four with Hungerford as centre; Hungerford and Kintbury suffering especially. The H stones were as large as pullets' eggs, some weighing eight oz.*; the fall smashed glass and conservatories and damaged trees and crops.—*Broxbourne* (III). TS.—*Culham* (III). TS, with large and curiously shaped H stones.—*Oxford, Magdalen College* (III). Heavy TS from 9.30 to 10 p.m.—*Oxford, St. Giles* (III). TS at 4.45 p.m., and vivid L at 10 p.m.—*Swerford* (III), TS, with H as large as walnuts. The worst storm in the neighbourhood since the great H storm in August, 1843.—*Ipswich, Bishop's Hill* (IV). During a continuous TS, .92 in. of

* A H stone the size of an average hen's egg would weigh about 2 oz.—ED.

R fell.—*Geldeston* (IV). Severe TS in S.E. and S.W. at 9 p.m. ; close between 11 p.m. and midnight. A poplar about 100 ft. high was struck here by L accompanied by a tremendous clap of T. The wood and bark were shattered and hurled in pieces twenty-nine yards to S. and W., forty yards to E., and forty-five yards to N. Pieces of bark and wood were also scattered near the trunk, but very few fragments in the intervening space.—*E. Ruston Grange* (IV). TS.—*Taunton, Linden Grove* (V). TS, when 46 in. of R fell in 20 mins. *Wellington, The Avenue* (V). TS.—*Long Ashton Estate Office* (V). Brilliant L at night.—*Cotswold Sanatorium* (VI). R 1.40 in., of which 1.12 in. fell in 40 minutes.—*Ross, The Graig* (VI). TSS at 6 p.m. and 11 p.m.—*Upton-on-Severn, The Eades* (VI). Remarkable H storm ; the stones were said to have been as large as a shilling.—*King's Heath, Cambridge Road* (VI). In 4 mins. 13 in. of R fell.—*Horncastle, Hemingby* (VII). TS.—*Nottingham, The Castle* (VII). H, and 1.29 in. of R.—*Chelford, Astle Hall* (VIII). T first heard about noon. It grew almost as dark as night at 3 p.m., and at 3.15 came violent gusts of wind and sheets of R, 55 in. falling in 7 minutes, with violent TS. At 9 p.m. the TS returned, doing damage to trees.—*Bolton, The Park* (VIII). T and L.—*Grange-over-Sands, Belmont* (VIII). L, T, and 1.36 in. of R.—*Meltham, Harewood Lodge* (IX). Sharp TS.—*Goldsborough Hall* (IX). A severe TS broke about 3 p.m., with a hurricane from S.E., bringing H and heavy R.—*Workington, Winscales* (X). Within 20 mins. 80 in. of R fell.—*Brampton, Denton House* (X). Great TS from 5 to 5.30 p.m. Much L and one continuous roar of T.—*Oystermouth, Newton* (XI). TS after some exceptionally hot days.—*Dowlais, Gwerllwyn* (XI). TS.—*Fort Augustus, St. Benedicts* (XVIII). H.—*Drumnadrochit* (XVIII). Violent TS from 8 to 10 p.m.—*Invershin* (XIX). T and L.—*Cork, Wellesley Terrace* (XX). T and L, doing some damage in the neighbourhood.—*Balbriggan, Laragh* (XXI). T and L.

12th and 13th.—*Thorney, Wryde House* (III). Tempest ; several sheep killed.

13th.—*Oxford, St. Giles* (III). T and L from 3.30 to 4.0 p.m.—

14th.—*Sudbury, Friars Street* (IV). Heavy shower ; in 15 mins. 15 in. of R fell.

15th.—*Nottingham, Beeston Fields* (VII). Vivid L doing some damage.—*Wilmslow, Parksyde* (VIII). TS.

16th.—*Nottingham, The Castle* (VII). H.—*Derry Castle* (XX). Heavy T at 4 p.m.

18th.—*Morden* (II). Two TSS.

20th.—*Haslemere, Hazelhurst* (II). TS with H and 1·06 in. of R.—*Wallington* (II). T and H.—*Nottingham, Beeston Fields* (VII). T and darkness in the afternoon.—*Kilkenny, Sion Villa* (XXI). TS with fierce rain in short heavy squalls particularly at 4 p.m.—*Enniskillen* (XXIII). T and very heavy H showers, doing great damage to crops.

21st.—*Hythe* (II). R 1·56 in., of which 1·04 in. fell in seven hours.—*Wilmslow, Parksyde* (VIII). TS.—*Meltham, Harewood Lodge* (IX). TS from 8 to 9 p.m.

21st and 22nd.—*Bolton, The Park* (VIII). T and L.

22nd.—*Emsworth, Redlands* (II). T and L.—*Parkham, Melbury Reservoir* (V). T and H.—*Cirencester, Further Barton* (VI). T and L.—*Middlewich, Bostock Hall* (VIII). Fearful H storm.—*Upper Midhope* (IX). TS.—*Meltham, Harewood Lodge* (IX). TS from 4 to 6 p.m.—*Dowlais, Gwernllwyn* (XI). H.—*Abergwesyn Vicarage* (XI). In 24 mins. ·37 in. of R fell.—*Kilkenny, Sion Villa* (XXI). TS with fierce rain.

22nd and 23rd.—*West Dean* (II). S.W. gale doing damage to trees and houses.—*Tavistock, Whitchurch* (V). H.

23rd.—*Knaresborough, Farnham* (IX). TS at 6 p.m.—*Thixendale* (IX). TS.

24th.—*Lilliesleaf, Riddell* (XII). TS and 1·73 in. of R.—*Achill, Coraun Ho.* (XXII). Hurricane, smashing and mowing down everything, with torrents of R.

25th.—*Frimley Green, Ridgemount* (II). TS at 11.30 a.m., during which ·48 in. of R fell in less than an hour.—*Pitsford, Sedgebrook* (III). TS.—*Tavistock, Whitchurch* (V). N.W. gale.

26th.—*West Dean* (II). H.

27th.—*Tavistock, Whitchurch* (V). H.—*Templeudigan, Ballindoney* (XXI). Severe TS passed to the N.E. at 2 p.m., no R falling here.

JULY.

2nd.—*New Galloway, Glenlee* (XII). T and heavy showers.—*Glenhead of Trool* (XII). In two hours 3·20 in. of R fell.—*Templeudigan, Ballindoney* (XXI). TS.

3rd.*—*Redhill, Oxford Road* (II). T and L at midday, and from 3 to 4 p.m.—*Horsmonden, Broad Ford House* (II). TS, and 1·03 in. of R in 28 mins., at 2 p.m.—*Crowborough* (II). TS at 6 p.m.—*Emsworth, Redlands* (II). T and L.—*Wolverton* (III). TS, and ·24 in.

* See also *Met. Mag.*, August, 1900, p. 98.

of R in five mins.—*Swerford* (III). H and T.—*Odsey* [*Royston*] (III). TS.—*Horncastle, Hemingby* (VII). T, L, H and R.—*Goldsborough Hall* (IX). Heavy TS.

5th and 6th—*Douglas, Woodville* (XI). N.W. and W.N.W. gales.

6th.—*Wisbech, Elm* (III). Sharp TS with H, at 9.30 a.m.—*Rendlesham Hall* (IV). TSS at intervals, with H.

9th.—*Berkhampstead, Northchurch* (III). Heavy TS, travelling from W. to E. ; between 1 and 2 p.m. 1.00 in. of R fell in half-an-hour.

11th.—*New Galloway, Glenlee* (XII). T and L.—*Moniaive, Maxwellton House* (XII). TS.

12th.*—*Oxford, St. Giles* (III). TS at 5.30 p.m.—*Ashburton, Druid House* (V). T, L and H.—*Cothelstone House* (V.) TS, and .96 in. of R in twenty mins.—*Ross, The Graig* (VI). TS from 3 to 4 p.m., with .96 in. of R.—*Lugwardine, The Laurels* (VI). TS, and 1.19 in. of R.—*West Bromwich* (VI). In 70 mins. .75 in. of R fell.—*Ashbourne Water Works* (VII). In one-and-a-half hours 1.58 in. of R fell.—*Wakefield, Field Head* (IX). TS and 2.28 in. of R.—*Wakefield, Stanley Grange* (IX). From 4 p.m. to 5.55 p.m. 2.17 in. of R fell in a violent TS.—*Bradford, Manningham Lodge* (IX). In six hours 3.11 in. of R fell.—*Leeds, Oliver Hill, Horsforth* (IX). TS, and 2.29 in. of R ; 2.00 in. falling in 1 hour 30 mins.—*Otley Sewage Farm* (IX). Heavy TS, of short duration, causing floods and great damage to property.—*Ardsley Reservoir* (IX). TS, and 2.29 in. of R, of which 2.07 in. fell in 1 hour 22 mins.—*Ilkley* (IX). In 1 hour 15 mins. 3.75 in. of R fell.—*Llandefaelog-fach* (XI). Severe TS, with large H, some stones being three-quarters of an inch in diameter, and weighing nearly an ounce. Sad destruction of crops and glass.—*Drummore* (XIII). In ten mins. .31 in. of R fell.

15th.—*Douglas, Woodville* (XI). TS, with .73 in. of R in two hours.—*Moniaive, Maxwellton House* (XII). TS.

16th.*—*Kensington, Edith Road* (I). The hottest day recorded in seventeen years. Max. temp. 92°·4.—*Crouch End, Aubrey Road* (I).—Max. temp. 94°·4.—*Tenterden* (II). Hottest day of year. Max. temp. 91° in shade.—*Crowborough* (II). Sharp TS between 9 and 10 p.m.—*Emsworth, Redlands* (II).—L and T.—*Kensworth* [*Dunstable*] (III). TS from 1.15 to 2 p.m., with 1.00 in. of R, and great darkness. Before the R there was a severe gale and dust storm.—*Hitchin, Bancroft* (III). In 30 mins. 1.00 in. of R fell.—*Amersham, The Plantation* (III). TS, and .43 in. of R in 15 mins.—*Oxford, Magdalen College* (III).

* See also *Met. Mag.*, August, 1900, p. 98.

TS from 0.45 to 1.30 p.m.—*Pitsford, Sedgebrook* (III). Heavy TS.—*Shillington* (III). In 20 mins. 1.25 in. of R fell.—*Odsey [Royston]* (III). R 1.09 in. between 1.30 and 2 p.m.—*Stretham* (III). Severe TSS, with wind and H.—*E. Ruston Grange* (IV). TS, with heavy R and gale.—*Marlborough, Mildenhall* (V). T and L.—*Tavistock, Whitchurch* (V). TS from S.S.W.—*Liverpool, Huyton Vicarage* (VIII). In 10 mins. .30 in. of R fell, and in the following 20 mins. .21 in., making .51 in. in half-an-hour.—*East Layton* (IX). Heavy TS.—*Llandefaelog-fach* (XI). TS.

19th.—*Christchurch, Winkton Lodge* (II). Max. temp. 88°, the highest registered since 1893.—*Datchworth Rectory* (III). Absolute drought for sixteen days ended.—*Penzance, St. Clare* (V). T and L.—*Cheltenham, Southam Villa* (VI). Max. temp. 90°·5, the highest recorded for at least twenty-three years.—*Chipping Campden, Hidcote* (VI). TS.—*Nenagh, Castle Lough* (XX). T and L.—*Templeudigan, Ballindoney* (XXI). Very severe TS.

19th and 20th.—*Cork, Wellesley Terrace* (XX). Much T and L in the night.—*Derry Castle* (XX). Heavy T, L and R till 6.30 a.m. on 20th. *Killiney, Cloneevin* (XXI.) Violent TS, reaching a maximum about 9 a.m. on 20th, and followed by heavy R and H.

20th.*—*Bournemouth, Kempsey* (II). L struck a house at Boscombe, and set a house on fire at Branksome.—*Oxford, Magdalen College* (III). Heavy TS between 1 and 2 p.m.—*Pitsford, Sedgebrook* (III). TSS with heavy H, which did considerable damage.—*Ipswich, Bishop's Hill* (IV). Severe TS in the early morning, with unusually large H. Much glass broken.—*Cromer, Northrepps Hall* (IV). Heavy H storm, with very large stones.—*Cirencester, Further Barton* (VI). TS from W. to E., returning in a second storm. A tree was struck. *Bedworth Cemetery* (VI). Very large H stones and T.—*Thurcaston Rectory* (VII). TS and 1.25 in. of R.—*Horncastle, Hemingby* (VII). TS in the night. Two contiguous cottages were struck by L; one of them was empty; in the other a man and his wife were in bed; the bed was set on fire, but the old couple escaped with no further injury than a burnt hand.—*Findern, The Longlands* (VII). Two TSS; 1.60 in. of R with H.—*Breadsall Priory* (VII). TS with 2.27 in. of R in a few hours, being the heaviest ever witnessed by the observer.—*Ashbourne Water Works* (VII). In 30 minutes .53 in. of R fell.—*Wilmslow, Parkside* (VIII). TS.—*Meltham, Harewood Lodge* (IX). TSS from 2 to 4 p.m. and severe from 5.30 to 6.30 p.m.—*Rhiwbryfdir*

* See also *Met. Mag.*, August, 1900, p. 98.

(XI). TS.—*Douglas, Woodville* (XI). TSS at noon and 2.30 p.m.—*Rathmines, Leinster Road* (XXI). TS.

20th and 21st.—*Odsey [Royston]* (III). T and L.—*Knaresborough, Farnham Lodge* (IX). TSS.

21st.—*Nottingham, The Castle* (VII). H.—*Meltham, Harewood Lodge* (IX). TSS from 4.30 to 5 p.m.—*Goldsborough Hall* (IX). Very heavy TS, the R being exceptionally heavy from 5.30 to 6 p.m.—*Moniaive, Maxwellton House* (XII). TS.

25th.—*Haslemere, Hazelhurst* (II). Highest max. temp of year, 87°.

26th.—*Crouch End, Aubrey Road* (I). Absolute drought for twenty-three days ended.—*Betchworth, The Holmes* (II). Absolute drought for twenty-one days ended.—*Steyning* (II). TS.

27th.*—*Kensington, Edith Road* (I). TS with vivid L, remarkable for the long duration of each flash.—*Finchley, Etchingham Park* (I). Distant T about 2 p.m. R at 2.55 p.m. when L became frequent till about 4 p.m., and appeared at intervals during the evening.—*Abinger Hall* (II). Distant T heard before 2 p.m.; late in the evening a severe TS lasting about two hours.—*Farnham, Dippen Hall* (II). TS and H.—*Dorking, Woodcote* (II). TS in which six trees and a fence scattered over an area of one acre were struck, it is believed by a single flash.—*Redhill, Oxford Road* (II). L and T from 2.30 to 3.30 p.m., and again from 6 to 9 p.m. H.—*Surbiton, Vronvelin* (II). TSS.—*Birchington, Thor* (II). T and L at 3 p.m.—*Slinfold, Dedisham* (II). TS.—*Hastings, Guestling Rectory* (II). TS, severe but of short duration. Five sheep and lambs were killed on one farm and two horses on another within two miles of the Rectory, and several trees were struck and injured. One well grown oak was completely stripped of bark and the trunk so shattered that it was broken off ten feet from the ground by the first high wind.—*Crowborough* (II). TS from 3 to 5 p.m.—*Christchurch, Winkton Lodge* (II). TS at noon. A cottage two miles off was struck, and a man sitting by the fireside had his leg scorched and a post-card in his hand set on fire, but sustained no other injury.—*West Dean* (II). Heavy TS with H doing much damage.—*Wolverton* (III). TS.—*Oxford, Magdalen College* (III). TS all afternoon and evening.—*Odsey [Royston]* (III). TS.—*Sudbury, Friars Street* (IV). Severe TS; four buildings struck by L.—*Rendlesham Hall* (IV). TS.—*Salisbury, Alderbury* (V). T and L. A soldier was killed in camp, and a mill struck and burnt.—*Lyme Regis, Colway Cottage* (V). TS.—*Long Ashton Estate Office* (V). Heavy TS.

* See also *Met. Mag.*, August, 1900, p. 98.

—*Cheltenham, Southam Villa* (VI). TSS at 7 p.m. and from 10 to 11 p.m.—*Pembridge, Marston* (VI). Heavy TS at 8 p.m. with 1·21 in. of R.—*Church Stretton* (VI). Heavy TS yielding 1·32 in. of R, the T and L being incessant.—*Thurcaston Rectory* (VII). TS.—*Bolton, The Park* (VIII). T and L.—*Llanfrechfa Grange* (XI). T and L from 4 to 6.30 p.m., and at 10 p.m.—*Abergwesyn Vicarage* (XI). Heavy TS in the distance. Very vivid L for two hours.

27th and 28th.—*Oystermouth, Newton* (XI). TSS.—*Derry Castle* (XX). T and L.—*Templeudigan, Ballindoney* (XXI). Terrific TSS from 7.15 p.m. to 8.15 p.m. on 27th, and from 4.45 a.m. to 6.30 a.m. on 28th. R 1·47 in., all of which fell in about three hours.—*Kilkenny, Sion Villa* (XXI). Violent TS from 11 p.m. to 3 a.m., damaging Ormonde's Castle.—*Castledermot* (XXI). Violent TSS.

27th—29th.—*Dowlais, Gwernllwyn* (XI). TSS.—*Llandefaelog-fach* (XI). T and L.

28th.—*Slinfold, Dedisham* (II). L.—*Wilmslow, Parksye* (VIII). TS in the early morning lasting about four-and-a-half hours. R ·52 in.—*Meltham, Harewood Lodge* (IX). TS and heavy R at 3 a.m.—*Cork, Wellesley Terrace* (XX). T and L in the morning. At Middleton and Cloyne cattle were killed and trees uprooted.—*Killarney, Woodlawn* (XX). TS with sudden flood.—*Bullybrack, Streamville* (XXI). In a TS ·39 in. of R fell in 15 minutes.—*Woodpark [Scariff]* (XXII). TS, when ·53 in. of R fell in 27 minutes.

29th.—*Redhill, Oxford Road* (II). L, T and H about 1 p.m.—*Wickham, The Croft* (II). TS.—*Datchworth Rectory* (III). TS.—*Swerford* (III). T; in 45 minutes ·63 in. of R fell.—*Burgh Castle Rectory* (IV). In 13 minutes ·13 in. of R fell.—*Lyme Regis, Colway Cottage* (V). TS.—*North Cadbury Rectory* (V). Two slight TSS.—*Ross, The Graig* (VI). TS at noon. Trees, animals and a man were struck.—*Wem, The Rectory* (VI). Very heavy H storms, one of which gave ·34 in. and the other ·40 in.—*Coventry, Priory Row* (VI). Violent storm of R and H.—*Findern, The Longlands* (VII). Three TSS.—*Chester, Christleton Hall* (VIII). TS with 1·65 in. of R.—*Bolton, The Park* (VIII). T and L.—*Newport, New Mills* (XI). T and L.

31st.—*Chipping Campden, Hidcote* (VI). TS at night.

AUGUST.

1st.—*King's Heath, Cambridge Road* (VI). In two minutes ·10 in. of R fell.

1st—9th.—*Llanefydd, Plas Uchaf Reservoir* (XI). R 5·01 in., whereas that of the previous five months was only 5·08 in.

2nd.—*Woodpark [Scariff]* (XXII). R 1·93 in.; torrential from 11 p.m. to 3 a.m. on 3rd. The heaviest yet recorded.

3rd.—*Haslemere, Hazelhurst* (II). W. gale.—*Emsworth, Redlands* (II). W. gale.—*Tavistock, Whitchurch* (V). S.W. gale.—*North Cadbury Rectory* (V). Gale, breaking limbs from trees.—*Pembridge, Marston* (VI). A gale did great damage to fruit and grain crops.—*King's Heath, Cambridge Road* (VI). In 4 mins. ·14 ins. of R fell.—*Chelford, Astle Hall* (VIII). TS, heavy R and a gale from N. and N.W.—*Wilmslow, Parksyde* (VIII). TS and 1·20 in. of R.—*Upper Midhope* (IX). T and L. R 1·79 in.—*Meltham, Harewood Lodge* (IX). Gale, with TS, from 4 p.m. to 5.30 p.m.—*Bolton Abbey* (IX). About 2·00 in. of R fell in two hours during a TS.—*Goldsborough Hall* (IX). Gale from N.E. in the evening, with torrents of R and H.—*Driffild, Beverley Road* (IX). R 2·07 in., the greatest fall in twenty-four hours during about twelve years.—*Wetwang* (IX). R 3·19 in., the greatest fall ever registered here.—*Thixendale* (IX). TS from 3.30 to 7.30 p.m.—*East Layton* (IX). R 2·60 in., the heaviest on record.—*Middlesbrough, Ormesby* (IX). Heavy R, 2·28 in.—*Darlington, Cleveland Parade* (X). Of the 2·41 in. of R on this day, 1·18 in. fell in five hours ending at 1.45 p.m., and 1·00 in. in the five hours ending 6.45 p.m.—*Newcastle, Clifton Road* (X). R 2·29 in., of which 2·11 in. fell between 9 a.m. and 9 p.m.—*Douglas, Woodville* (XI). E.N.E. gale. R all day.—*Castle Lough* (XX). N. gale.

3rd and 4th.—*Farnham, Dippen Hall* (II). Gale from S.W. shifting to N.N.W.—*Rendlesham Hall* (IV). S.W. to W. gale.

3rd—8th.—*Fakenham, Pensthorpe* (IV). R 3·57 in., damaging the newly-cut corn very much.

4th.—*Clifton, Pembroke Road* (VI). TS at night.—*Abergwesyn Vicarage* (XI). L in the night.—*Douglas, Woodville* (XI). N.W. gale; steamers delayed.

5th.—*Finchley, Etchingham Park* (I). L and T between 8 and 10 p.m.—*Oxford, Magdalen College* (III). TS from 6.30 to 7.30 p.m.—*Rendlesham Hall* (IV). L.—*Burgh Castle Rectory* (IV). R 1·10 in., of which probably 1·00 in. fell in two hours.—*Hereford, Burghill Court* (VI). In 30 mins. ·23 in. of R fell.—*Utttoxeter, Brook House* (VI). T and 1·04 in. of R.—*Findern, The Longlands* (VII). From 4 to 6 p.m. ·56 in. of R fell.—*Whithorn, Cutroach* (XII). In two hours ·83 in. of R fell.

5th and 6th.—*Wilmslow, Parksye* (VIII). TSS.

6th.—*Kensington, Edith Road* (I). Strong S.W. gale. — *Emsworth, Redlands* (II). S.W. to W. gale.—*Tavistock, Whitchurch* (V). W.N.W. gale.—*Gonalston Rectory* (VII). TS and 1·36 in. of R.—*Chester, Christleton Hall* (VIII). TS, with 1·80 in. of R.—*Chester, Hoole Lodge* (VIII). R 2·51 in.; the largest fall yet registered.—*Bolton, The Park* (VIII). TS from 6.30 to 8 p.m.—*Rochdale, Fieldhead* (VIII). In 16 mins. ·31 in. of R fell.—*Upper Midhope* (IX). TS at night. R 1·72 in.—*Meltham, Harewood Lodge* (IX). Rather severe TSS from 8 to 10 p.m., and at midnight.—*Llanvihangel Court* (XI). S.W. to W. gale.—*Derry Castle* (XX). Heavy TS at 9.20 a.m.

6th and 7th.—*Strathblane, Craigend Castle* (XV). TSS.

8th.—*Cork, Wellesley Terrace* (XX). R 1·10 in., falling in ten hours.

9th.—*Clifton, Pembroke Road* (VI). TS from 3 to 4 p.m.—*Llandovery* (XI). T and L.

11th.—*Skye, Strathaird* (XVIII). In 8 hours 30 mins. 4·53 in. of R fell, and 5·03 in. in the twenty-four hours.

16th.—*Forres, H.R.S.* (XVII). TSS.

17th.—*Denmark Hill* (II). TS and ·96 in. of R in about 40 mins. At Kennington Oval, only a mile away, there was no R to speak of.—*Wallington* (II). Terrific TS between 4.10 and 5.10 p.m. Water collected to a depth of more than three feet under the railway bridge, and roads were washed bare. R 1·10 in.—*Funtington* (II). In the afternoon ·55 in. of R fell in 30 mins.

17th and 18th.—*Cirencester, Further Barton* (VI). T and L.

18th.—*Oxford, St. Giles* (III). TS, with sudden heavy R.

19th.—*Tavistock, Whitchurch* (V). L in the evening.

20th.—*Betchworth, The Holmes* (II). In 20 mins. ·62 in. of R fell.—*Caterham Valley, Bradenhurst* (II). Almost a cloudburst, as 2·30 in. of R fell in 45 mins., from 6.30 to 7.15 p.m. Apparently the rain-storm covered a square mile or more, doing much damage.—*Wallington* (II). TS.—*Church Stretton* (VI). L.

21st.—*Slinfold, Dedisham* (II). TS.—*Swaffham* (IV). R 1·11 in., of which 1·09 in. fell in 45 mins.—*Navenby Rectory* (VII). In about an hour 1·25 in. of R fell.—*Manchester, Stretford* (VIII). During a TS one inch of R fell in 30 mins.—*Rochdale, Fieldhead* (VIII). In 5 mins. ·13 in. of R fell.—*Broughton-in-Furness* (VIII). TS between 4 and 5 p.m., R 1·19 in.—*Meltham, Harewood Lodge* (IX). T at 5.30 p.m., and heavy R, ·13 in. falling in 8 mins., at 6.20 p.m.—*Derry Castle* (XX). TS, and 1·57 in. of R.

21st and 22nd.—*Cirencester, Further Barton* (VI). T and L.—*Seathwaite Vicarage* (VIII). T and L. R for the two days 3·80 in.—*East Layton* (IX). Heavy TSS, during which trees were struck.—*New Galloway, Glenlee* (XII). TSS and heavy R. Total 2·67 in.—*Coupar Angus Station* (XVI). R 2·22 in. ; great floods.

21st—23rd.—*Findern, The Longlands* (VII). TSS. — *Wilmslow, Parksyde* (VIII). TSS.—*Grange-over-sands, Belmont* (VIII). L and T.

21st—24th.—*Nenagh, Castle Lough* (XX). T and L.

22nd.—*North Cadbury Rectory* (V). T, L, and heavy wind.—*Bolton, The Park* (VIII). TS from 10 a.m. to 3 p.m.—*Broughton-in-Furness* (VIII). TSS at 9 a.m., noon and 5 p.m., with brilliant sunshine between. R 2·17 in.—*Baldersby* (IX). T and L at noon and 3 p.m.—*Brampton, Denton House* (X). T and ·97 in. of R in 1 hour 25 mins.—*Douglas, Woodville* (XI). L at night.—*Kilkenny, Sion Villa* (XXI). T and L at 4 p.m.

22nd and 23rd.—*Thixendale* (IX). TSS.—*Strathblane, Craigend Castle* (XV). TSS.

22nd—24th.—*Goldsborough Hall* (IX). TSS.—*Knaresborough, Farnham Lodge* (IX). TSS.

23rd.—*Frimley Green, Ridgemount* (II). At 10 a.m. a vivid flash of L struck and killed a mare and foal, in a field at Cove, though the two were more than thirty yards apart.—*Christchurch, Winkton Lodge* (II). Shower of H, after which the ground was white for a quarter of an hour. No T heard.—*Colchester, Lexden* (IV). T and L.—*Great Glemham* (IV). The heaviest H storm observer had ever witnessed in Europe, Asia, Africa or America.—*Douglas, Woodville* (XI). TS—*Eigg, Kildonan* (XVIII). In 20 mins. ·27 in. of R fell.

23rd and 24th.—*Markree Observatory* (XXII). T and L.

24th.—*Ross, The Graig* (VI). T, L and R from 3.30 to 4.30 p.m.—*Leamington, Latmos* (VI). In 12 mins. ·43 in. of R fell.—*Cork, Wellesley Terrace* (XX). T and L.

25th.—*Lewes, Saxonbury* (II). TS and heavy R.—*Emsworth, Redlands* (II). T, L and R from 4 to 6 p.m.—*Wickham, The Croft* (II). Very heavy R, ·32 in. falling in 15 mins.

27th.—*Birchington, Thor* (II). Heavy N.E. gale, with R, doing great damage.

30th.—*Skye, Strathaird* (XVIII). In ten hours 2·30 in. of R fell.

31st.—*Ballachulish, Ardsheal* (XV). R 1·20 in. ; great flood.

SEPTEMBER.

4th and 5th.—*Kilkenny, Sion Villa* (XXI). Light frosts.

15th.—*Ashburton, Druid House* (V). TS.—*Treherbert, Tyn-y-waun* (XI). T and L.—*Dowlais, Gwernllwyn* (XI). Absolute drought for 17 days ended.—*Kilkenny, Sion Villa* (XXI). Thick fog, with all the characteristics of a sea fog.

16th.—*Hythe* (II). TS.—*Odsey [Royston]* (III). L.—*Cirencester, Further Barton* (VI). L in N.E. at 10 p.m.—*Ross, The Graig* (VI). L at night.—*Worksop, Hodsock Priory* (VII). Heavy TS.—*Bolton, The Park* (VIII). L in the evening.—*Seathwaite Vicarage* (VIII). L at night.—*Meltham, Harewood Lodge* (IX). Very frequent sheet L from 7.30 to 10 p.m.; five to ten flashes per minute. No T.—*Rhiwbryfdir* (XI). TS.—*Cork, Wellesley Terrace* (XX), *Kilkenny, Sion Villa* (XXI) and *Ballybrack, Streamville* (XXI). Absolute drought for 16 days ended.

17th.—*Danbury Rectory* (IV). Absolute drought for 16 days ended.—*Hereford, Burghill Court* (VI). Absolute drought for 17 days ended.

18th.—*Caerwnon [Builth]* (XI). Absolute drought for 18 days ended.

22nd.—*Winterbourne Steepleton* (V). Absolute drought for 20 days ended.—*Caerwnon [Builth]* (XI). Partial drought for 28 days, with .28 in. of R, ended.

23rd.—*Midhurst, Borden Wood* (II), *Emsworth, Redlands* (II), and *West Dean* (II). Absolute drought for 21 days ended.—*Wolverton* (III). Absolute drought for 23 days ended.—*Bishop's Cannings* (V). Partial drought for 30 days, with .23 in. of R, ended.

25th.—*Midhurst, Borden Wood* (II). Partial drought of 33 days, with .31 in. of R, ended.—*Oxford, Elsfeld* (III). Absolute drought for 25 days ended.—*Oxford, St. Giles* (III). Absolute drought for 24 days ended.—*North Cadbury Rectory* (V). Partial drought for 33 days, with .25 in. of R, ended.—*Hereford, Burghill Court* (VI). Partial drought for 31 days ended.

26th.—*Douglas, Woodville* (XI). S.W. gale and R all day.—*Dalry Blair* (XIV). R 1.29 in., of which 1.00 in. fell in six hours from noon.—*Ballachulish, Ardsheal* (XV). S. gale and 2.09 in. of R.

OCTOBER.

2nd.—*Findern, The Longlands* (VII). TS.—*Broughton-in-Furness* (VIII). Slight T and L.—*New Galloway, Glenlee* (XII). T, L and H.

2nd and 3rd.—*Goldsborough Hall* (IX). Heavy TSS with H.

3rd.—*Knaresborough, Farnham* (IX). H.

4th.—*Emsworth, Redlands* (II). S.W. gale.—*Ashburton, Druid House* (V). TS and H.—*Parkham, Melbury Reservoir* (V). T and 1.15 in. of R.—*Penzance, St. Clare* (V). H.—*Ashbourne Water Works* (VII). In 15 mins. .45 in. of R fell.—*Broughton-in-Furness* (VIII). Wild and wet, with T, L and 1.26 in. of R.—*Seathwaite Vicarage* (VIII). T, L and 1.22 in. of R.—*Oystermouth, Newton* (XI). TS.—*Ballachulish, Ardsheal* (XV). E. gale.

4th and 5th.—*Dowlais, Gwerllwyn* (XI). TSS with 2.00 in. and 1.25 in. of R.—*Abergwesyn Vicarage* (XI). T, L and 2.43 in. of R for the two days.

4th—6th.—*Cirencester, Further Barton* (VI). Strong S.W. gales.—*Douglas, Woodville* (XI). S.E. gales; TS on 4th.

5th.—*Tavistock, Whitchurch* (V). S.W. gale and H.—*Penzance, St. Clare* (V). T and L.—*Lifford Sewage Works* (VI). In 3 mins. .18 in. of R fell.—*King's Heath, Cambridge Road* (VI). In 3 mins. .19 in. of R fell.—*Grange-over-Sands, Belmont* (VIII). L and T.—*Seathwaite Vicarage* (VIII). Heavy H showers.—*Llanfrechfa Grange* (XI). T and L at 3 p.m.—*Markree Observatory* (XXII). L and T at noon.

6th.—*Eastgate, All Saints' Vicarage* (X). Very wild and wet; the greatest flood in the Wear for many years.—*Killarney, Woodlawn* (XX). R 1.55 in., of which 1.25 in. fell in four-and-a-half hours.—*Nenagh, Castle Lough* (XX). S.W. gale.

7th.—*Nenagh, Castle Lough* (XX). S. gale.

9th.—*Wallington* (II). Shade max. temp. 72°·7.—*Cheltenham, Southam Villa* (VI). Max. shade temp. 70°·0, being the highest so late in the year for at least 23 years.—*Cahir, Duneske* (XX). In two hours 9 to 11 a.m. .32 in. of R fell:

10th.—*Odsey [Royston]* (III). L.—*Wilmslow, Parksyde* (VIII). TS.

11th.—*Kilkenny, Sion Villa* (XXI). Frost and fog in the morning.

13th.—*Broughton-in-Furness* (VIII). Wild and stormy, with T, L and H.—*Seathwaite Vicarage* (VIII). Heavy H with T at night.—*Colmonell, Clachanton* (XIV). T and L.

13th and 14th.—*Bettyhill* (XIX). Violent gale from W. with heavy showers of S and H on 14th.—*Markree Observatory* (XXII). H.

14th.—*Hastings, High Beech, Hollington* (II). Sleet and H.—*Cirencester, Further Barton* (VI). N.W. gale all day.—*Ross, The Graig* (VI). H storm at 11.15 a.m.—*Findern, The Longlands* (VII). H and S.

—*Chelford, Astle Hall* (VIII). TS and H.—*Wilmslow, Parksyde* (VIII). T and L.—*Brampton, Denton House* (X). S on distant hills.

18th.—*Loch Shiel, Glenaladale* (XVIII). S lay thick on the high hills, coming down to from 1500 to 2000 feet from the summits.

20th.—*Great Ayton, Easby Hall* (IX). Great storm of wind, S and R, which did much damage, especially to trees.

21st.—*Hythe* (II). H.—*Wisbech, Elm* (III). H.—*Cirencester, Further Barton* (VI). L in N.E. at 10 p.m.

22nd.—*Christchurch, Winkton Lodge* (II). TS and H.

25th.—*Newport, New Mills* (XI). T and L.

25th—27th.—*Markree Observatory* (XXII). Heavy H showers.

26th.*—*North Cadbury Rectory* (V). H in the afternoon and L in the evening.—*Cirencester, Further Barton* (VI). T at 2 p.m. and L at 8 p.m.—*Chelford, Astle Hall* (VIII). H and T in afternoon. Very rough day.—*Wilmslow, Parksyde* (VIII). T and L.—*Seathwaite Vicarage* (VIII). L at night.—*Middlesbrough, Ormesby* (IX). The heaviest R of the year; the fall for twenty-four hours exceeding 2·52 in., at which point the gauge ran over.—*Darlington, Cleveland Parade* (X). R 2·03 in., excepting July 3rd when 2·41 in. fell, this was the heaviest fall for many years.—*Ushaw College* (X). R, S and sleet, measuring 2·34 in.—*Newcastle, Clifton Road* (X). R 2·38 in., commencing with a S shower, sleet and R later and N.W. gale. The storm was over at 9 a.m. on 27th.—*Seaham Harbour* (X). R and S measuring 2·29 in.—*Sunderland, West Hendon House* (X). R 3·28 in.; the wettest day in records extending back for 65 years.—*Ryton-on-Tyne* (X). R 2·34 in., practically all falling in 14 hours.—*Pawston [Coldstream]* (X). Mingled S and R, yielding 1·26 in.—*Dowlais, Gwernllwyn* (XI). Very stormy; heavy showers of H.—*Llandovery* (XI). T, L and H.—*Abergwesyn Vicarage* (XI). T, L, H and 1·11 in. of R.—*Douglas, Woodville* (XI). Sharp TS all the afternoon, with H, which covered the ground for some hours.

26th and 27th.—*Colchester, Lexden* (IV). N.W. gale.—*Parkham, Melbury Moor* (V). T and H.

27th.—*Scots Gap, Wallington* (X). R 2·00 in., with a terrific gale all night.

28th.—*Emsworth, Redlands* (II). W. gale.—*Tavistock, Whitchurch* (V). L.—*Cirencester, Further Barton* (VI). Heavy R and S.W. gale.

29th.—*Lewes, Saxonbury* (II). TS.—*Bournemouth, Kempsey* (II).

* See also *Met. Mag.*, November, 1900, p. 145.

Shower from 0.45 to 1.5 p.m., with L, T and H, yielding .10 in. of R.—Emsworth, Redlands (II). TS from 0.45 to 1.30 p.m.

31st.—*Cork, Wellesley Terrace (XX). L at night.*

NOVEMBER.

7th.—*Tavistock, Whitchurch (V). N.W. gale.*

7th—10th.—*Miltown Malbay (XX). H showers.*

8th—11th.—*Abergwesyn Vicarage (XI). H daily.*

9th.—*South Molton, Castle Hill School (V). H.—Grange-over-Sands, Belmont (VIII). H.*

9th and 10th.—*Parkham, Melbury Moor (V). S and H.—Penzance, St. Clare (V). H.—Bolton, The Park (VIII). H.—Crossmolina, Enniscoe (XXII). H.*

10th.—*Tavistock, Whitchurch (V). T and L.—North Cadbury Rectory (V). L in evening in S.S.W.—Findern, The Longlands (VII.) S.—Treherbert, Tyn-y-waun (XI). R, H and S.—Markree Observatory (XXII). H showers.*

10th and 11th.—*Llandovery (XI). H.—Derry Castle (XX). S on neighbouring mountains in Tipperary and Clare.*

15th.—*Odsey [Royston] (III). L.—Tavistock, Whitchurch (V). S.W. gale.—Parkham, Melbury Reservoir (V). H.—Nenagh, Castle Lough (XX). S.W. gale.*

15th and 16th.—*Douglas, Woodville (XI). S.E. gale.*

17th and 18th.—*Birchington, Thor (II). N.E. gales, with heavy squalls of R.*

18th.—*Hythe (II). R 1.02 in., of which .47 in. fell in two hours from 9 to 11 a.m.*

23rd.—*Hythe (II). H, S and R.*

24th.—*Douglas, Woodville (XI). E.S.E. gale, and 1.00 in. of R.*

28th.—*Tavistock, Whitchurch (V). S.E. gale.—Douglas, Woodville (XI). S.E. gale.*

DECEMBER.

3rd.—*Birchington, Thor (II). S.W. gale.—Llanfrechfa Grange (XI). S. gale.*

3rd and 4th.—*Llanvihangel Court (XI). S.E. to W. gale.*

5th.—*London, Westbourne Grove (I). S.W. to N.W. gale.—Emsworth, Redlands (II). S.W. to N.W. gale.—Llanfrechfa Grange (XI). S.W.*

gale from 5 p.m. to midnight.—*Dunkeld, Inverbraan* (XVI). S.—*Blair Atholl* (XVI). Sleet and S.

5th and 6th.—*Launceston, Altarnon* (V). Maximum flood in the lower Inney.

7th and 8th.—*Douglas, Woodville* (XI). S.W. gales.

8th and 9th.—*Bettyhill* (XIX). Violent W. gale.

9th.—*Douglas, Woodville* (XI). W.N.W. gale.

11th.—*Oban, Bragleenbeg* (XV). From 4 to 6 a.m. 2·16 in. of R fell, doing great damage.

13th.—*Douglas, Woodville* (XI). N.W. gale.

13th and 14th.—*Invershin* (XIX). T and L.

14th.—*Llanvihangel Court* (XI). Gale, changing from W. to S.W. and back to W.

14th and 15th.—*Drumnaulrochit* (XVIII). T.

15th.—*Ballachulish, Ardsheal* (XV). Gale from W.—*Watten, H.R.S.* (XIX). W. gale at night.

19th.—*Douglas, Woodville* (XI). Tremendous S.W. gale at night.

19th and 20th.—*Ballachulish House* (XV). Between 4 p.m. on 19th and 9 a.m. on 20th, 1·93 in. of R fell, with a very severe S.W. gale.—*Newport, Burrishoole House* (XXII). Severe S.W. gale.

20th.—*Kensington, Edith Road* (I). S.W. gale in afternoon and night. — *Lewes, Saronbury* (II). Gale from S.W. — *King's Heath, Cambridge Road* (VI). In 4 mins. ·16 in. of R fell.—*Chelford, Astle Hall* (VIII). Gale from S.W., with R.—*Brampton, Denton House* (X). Severe gale, doing considerable damage to house property, and blowing down stacks.—*Ambleside, The Stepping Stones* (X). The rain gauge was set up on this date, and recorded 2·56 in. in thirteen hours as its first day's work. — *Lilliesleaf, Riddell* (XII). Very violent storm, with heavy R. The damage done to trees was very peculiar; about 35 per cent. of the damaged trees being broken short through the middle. Small thorns suffered much, and many gooseberry bushes were torn up by the roots.—*Manse of Fetlar* (XIX). Heavy S.S.E. gale, of short duration, at 3 p.m.—*Kilkenny, Sion Villa* (XXI). Very severe gale, doing much damage to chimneys and roofs.

20th and 21st.—*Wilmslow, Parksyde* (VIII). The gale of this date was remarkable not so much for the limited amount of R, only ·04 in. falling, but for the almost entire absence of cloud, especially after the wind rose at about 4 p.m. on 20th.—*Llanvihangel Court*

(XI). S.W. to W. gale.—*Douglas, Woodville* (XI). Whole gale from W.N.W.

21st.—*Scots Gap, Rothley Crag* (X). Severe gale, blowing down many trees.—*Bettyhill* (XIX). Violent gale from W.

22nd.—*Cahir, Duneske* (XX). L at night.

24th.—*Ballachulish, Ardsheal* (XV). S.W. gale.

25th.—*Douglas, Woodville* (XI). S.W. gale. Steamers delayed over seven hours.—*Derry Castle* (XX). Very wet with 1.00 in. of R. Heavy floods.

27th.—*Emsworth, Redlands* (II). S.W. gale, T and L.—*Parkham, Melbury Moor* (V). H.—*Oystermouth, Newton* (XI). Violent gale lasting 24 hours.—*Dunmanway, Coolkelure* (XX). A hurricane, boxing the compass from S.E. to N.E., blew down many trees and did much damage to roofs.—*Mallow, Longueville* (XX). Storm at night. Many trees blown down. High flood in the Blackwater.—*Newport, Burrishoole House* (XXII). The most severe storm from W. for years.

27th and 28th.—*Kensington, Edith Road* (I). Heavy S.W. gale.—*Launceston, Altarnon* (V). Heavy S. gale doing much damage by land and sea.—*Clifton, Pembroke Road* (VI). Violent S.E. to W. gale.—*Llanfrechfa Grange* (XI). Heavy S.W. gale.—*Cahir, Duneske* (XX). A gale commencing at 10 p.m. on 27th proved very destructive. It commenced blowing from S. and increased in intensity as it reached S.W., most of the trees falling from this direction. Heavy R and a comparatively low temp. accompanied it during the night. At 9 a.m. on 28th, with temp. 41°·5 and relative humidity only 81 per cent., the wind blew hard from W., and abated about 1 p.m. when the direction was N.W.

28th.—*London, Westbourne Grove* (I). S.W. to N.W. gale.—*Carisbrooke, Rowborough* (II). T.—*Bournemouth, Kempsey* (II). TS at 3.50 a.m. during gale.—*Emsworth, Redlands* (II). W. to N.W. gale.—*Slough, Upton* (III). Severe gale.—*Ipswich, Bishop's Hill* (IV). Severe S.S.W. gale.—*Tavistock, Whitchurch* (V). Severe gale from W.S.W. to W.N.W., especially from 9.30 to 10 a.m., doing much damage.—*Chelford, Astle Hall* (VIII). Furious gale all day with heavy R.—*Broughton-in-Furness* (VIII.) Very violent storm of wind and R from W.N.W., doing considerable damage.—*Douglas, Woodville* (XI). Whole gale from W.N.W.; high seas; steamer delayed nearly 9 hours.—*Cork, Wellesley Terrace* (XX). 'The greatest storm of the year, and, judging by its effects, the greatest for many years.—

Templeudigan, Ballindoney (XXI). Hurricane from N.W., blowing down many trees.—*Markree Observatory* (XXII). H showers at 3 p.m., with very high wind.

30th.*—*Farnham, Dippen Hall* (II). N.N.W. gale.—*Bournemouth, Kempsey* (II). Fall of 1·70 in. of R during a gale between 10.50 a.m. on 30th and 9 a.m. on 31st.—*West Dean* (II). S, H and heavy R. Total 1·39 in.—*Oxford, St. Giles'* (III). Between 1 p.m. on 30th and 9 a.m. on 31st 1·21 in. of R fell.—*Steeple Aston, Hill House* (III). R 1·54 in., which was the heaviest ever recorded here.—*Banbury, Bodicote* (III). The heaviest R (1·51 in. in twenty-four hours) which has been observed for many years.—*Lichborough Hall* (III). R 1·72 in., the heaviest since the record commenced.—*Harwich, Ramsey* (IV). It was rather curious that the greatest fall of R in twenty-four hours should be reserved for the last day but one of the year. It lasted about twelve hours, and so dry was the land that two days later the hedge-row ditches were all quite dry, which is very unusual at this time of year.—*Aylsham, Woodgate* (IV). R 1·33 in.; low ground flooded.—*Devizes, Shepherd's Shore* (V). H and 1·63 in. of R.—*Malmesbury, Charlton* (V). R 2·50 in., which is greater than any previously recorded in twenty-four hours.—*Wimborne Minster, Horton* (V). R 2·45 in. A record fall.—*Tavistock, Whitchurch* (V). Between 9.17 a.m. and 4 p.m. 1·13 in. of R fell. Total fall, 1·38 in.—*Cranmore, Cranmore Hall* (V). R 2·33 in., which has only once been exceeded, viz, September 11th, 1885, when 3·89 in. of R fell.—*Frome, Mells Rectory* (V). R 2·95 in.; chiefly fell in the night in torrents from the N. The village and the Rectory garden were flooded.—*Frome, Orchardleigh* (V). R 2·57 in.; the heaviest R yet recorded in twenty-four hours, followed by a sudden flood in the river Frome.—*North Cadbury Rectory* (V). Continuous R from 9·30 a.m. to 4.45 p.m., when ·50 in. had fallen; then drizzle and small R till 9 p.m., after which 1·51 in. fell, and had ceased long before day-break.—*Glastonbury, High Street* (V). The greatest R for many years. Hundreds of acres of land were submerged.—*E. Harptree, Harptree Court* (V). R 2·82 in.; the heaviest fall hitherto registered, 2·00 in. of which fell between 4.30 p.m. and 4.30 a.m. on 31st.—*Shrewton* (V). R 2·23 in., of which none fell in the calm when the centre of the storm was passing.—*Clifton, Pembroke Road* (VI). Violent S.E. to W. gale. In eighteen hours 2·27 in. of R fell.—*Fairford, Horcott* (VI.) R 1·97 in., being the heaviest fall ever registered in twenty-

* See also *Met. Mag.*, January, 1901, p. 178.

four hours except 2·39 in. on July 14th, 1875.—*Berkeley, Castle Gardens* (VI). R 3·14 in.. the greatest fall in the register, which dates back to 1868.—*Lydney, Priors Mesne* (VI). R 3·03 in., an unprecedented fall.—*Whitminster* (VI). The fall of 3·10 in. is unequalled in this district since 1858.—*Gloucester, Quedgeley House* (VI). R 3·10 in., which is the largest in twenty-four hours since observations began in 1875.—*Mitcheldean, Blaisdon* (VI). R 3·49 in., which is the largest fall in twenty-four hours during nine years.—*Tewkesbury, Beckford* (VI). R began at 9 a.m., and at 4 p.m. ·62 in. had fallen ; R continued till 5 a.m. on 31st, when 3·10 in. was measured, one-fifth of which fell during the day and the remainder during the night. In thirteen hours, from 4 p.m. to 5 a.m., 2·42 in. fell. This was the record R at Beckford.—*Ledbury, Putley Court* (VI). Extraordinary R. Over 50 sheep and several horses were drowned in Yarkhill Parish. R fell throughout the whole day.—*Lugwardine, The Laurels* (VI). R 2·25 in. The stormiest night known since 1852.—*Ludlow, Ashford* (VI). The heavy R caused a flood on the river Teme and did a good deal of damage.—*Malvern, Madresfield Court* (VI). R 2·68 in., being the heaviest fall ever recorded in 24 hours.—*Lifford Sewage Works* (VI). Continuous R, 2·50 in. falling in 21 hours.—*King's Heath, Cambridge Road* (VI). In 21 hours of continuous R ending at 5 a.m. on 31st 2·32 in. fell.—*Shipston, Honington* (VI). R 2·08. The greatest fall in 24 hours during 11 years.—*Shottery Hall* (VI). R 3·20 in. lasting from 9 a.m. till the early hours of 31st. Wind S.S.W. to N.N.E.—*Stratford-on-Avon, Guild Street* (VI). R 3·60 in. The greatest fall by far ever noted.—*Alcester, Ragley Gardens* (VI). R 2·76 in. ; the greatest fall and the biggest flood on record. Streams and rivers overflowed their banks doing several thousand pounds damage to stock and property. Alcester, where the Alne and Arrow meet, suffered severely, 5 feet of water standing in some of the houses and shops.—*Kenilworth, The Spring* (VI). A very exceptional fall of R measuring 3·23 in., of which 2·85 in. fell between 4.15 p.m. and 6 a.m. on 31st.—*Leamington, The Parade* (VI). R 2·68 in. being half-an-inch more than any previous record here.—*Warwick, Barford Rectory* (VI). R 2·81 in., being by far the greatest recorded since observations began in 1868.—*Leicester, Town Hall Square* (VII). Exceptionally heavy R which caused the low lying districts to be badly flooded.—*Tolethorpe Hall [Stamford]* (VII). The greatest R for at least thirty years, with one exception.—*Lincoln, D'Isney Place* (VII). R 1·62 in. ;

the most registered during seventeen years' observations.—*Portskewett, Sudbrook* (XI). R 2·80 in., the greatest amount ever recorded here in twenty-four hours.—*Llanfrechfa Grange* (XI). N. gale, and 1·98 in. of R.—*Llanvihangel Court* (XI). S. to N.W. gale, and 2·54 in. of R.

30th and 31st.—*Thorney, Wryde House* (III). Thirty hours of R, measuring 1·39 in.—*Walsall, Wednesbury Sewage Works* (VI). In about 18 hours 1·75 in. of R fell.

31st.—*Birchington, Thor* (II). N.E. gale.—*Tavistock, Whitchurch* (V). Heavy N. gale.—*Tiverton, St. Peter Street* (V). The weather was so mild that roses of four sorts, mignonette, passion flower, stocks and eight other species were still in flower.

OBSERVERS' NOTES ON THE MONTHS.

JANUARY.

I. *Kensington, Edith Road.* Very warm and wet; mean temp. $3^{\circ}\cdot 1$ above the average.—*Finchley, Etchingham Park.* R 1·39 in. or 72 per cent. above the average of fourteen years and exceeding that of any other January since 1886 when 4·06 in. fell. R or S fell on twenty-one days which is four more than the average. During the first nine days R fell on all but the 5th amounting to 1·84 in. or 55 per cent. of the total.

II. *Haslemere, Hazelhurst.* Cloudy, dull and wet. R on twenty days, 1·09 in. on 6th; thirteen sunless days. Mean temp. 38° , max 50° , min. 25° in shade, 19° in grass. Although the min. was below 32° on eleven nights in shade, and twenty-two nights on grass there was no skating.—*Abinger Hall.* Open and mild with frequent fogs. Over an inch of R fell on the 6th and from the 14th showers were plentiful but light.—*Wallington.* Fairly high temp., but very wet, dull and exceedingly unhealthy. The wettest January since 1886. S on two days. Lunar halos were somewhat numerous. Mean temp. $40^{\circ}\cdot 2$ or $3^{\circ}\cdot 7$ above, and R 1·28 in. above, the average. Duration of sunshine 34·3 hours being 11·6 hours below the average and 13 per cent. of the possible amount.—*Birchington, Thor.* Dull and wet with more or less R on twenty-one days. Very little sunshine, total fifty hours.—*Lewes, Saxonbury.* Wet and mild with fog and mist. Slight S on 28th. Winterbourne Stream began to flow on 29th.—*Crowborough.* Very wet, unsettled and mild. In the last thirty years the R has been exceeded only four times in January. Sunshine on ten days for half the day or more, and on seven days occasional brief glimpses of sun, the remaining days were dull, wet or cloudy.—*Emsworth, Redlands.* R 1·34 in. in excess of the average of sixteen years. This beneficial R materially increased the water supply in springs and wells, it being much in excess of that available last January.—*West Dean.* Very sunless with an extraordinary amount of fog. Temp. above the average, but frost on twenty-two days; very sudden changes. S fell on four days but

remained only for a few hours. There were no bright days. Vegetation was more backward than in 1899.

III. *Slough, Upton.* Extremely damp. Duration of sunshine forty-two hours. Twelve totally and seventeen practically, sunless days.—*Culham.* Mild, wet and unsettled though the R, except in the first week, was not large.—*Oxford, St. Giles.* Wetter and colder than usual.—*Blisworth, Grafton House.* Mild with very little S.—*Northampton, Sedgebrook.* R 1·64 in. above the average of ten years. Mean temp. 38°·2. S from 27th to 29th.—*Wisbech, Elm.* An extraordinarily wet month with very little S. In spite of the temp. being often below freezing point the mean was not low. There was little wind except on two or three occasions, when there were heavy gales lasting but a short time.

IV. *Billericay, Burghstead Lodge.* R copious and frequent being ·80 in. above the average. S on two days.—*Colchester, Lexden.* An open month for all gardening work. Mostly dull with very little sunshine. Frosts on grass on seventeen nights.—*Sudbury, Friars Street.* Wet, there being only three days without R.—*Rendlesham Hall.* Cloudy and cheerless with strong winds, S and heavy R.

V. *Bishop's Cannings.* R ·66 in., and rainy days five, above the average.—*Turistock, Whitchurch.* Damp, cloudy, gloomy, very wet and rather warm. R was measured on the first three days and on the twenty-four consecutive days from 5th to 28th. The daily mean temp. varied from 46°·4 on 23rd. to 34°·4 on 5th. S on four days; fog on eight; H on five.—*Wellington, The Avenue.* Generally very wet with little cold weather. R about 1·50 in. above the average.—*North Cadbury.* Mild and unsettled throughout, much cloud but no great R. A rather high average of wind, but a marked absence of strong gales. Very mild from 15th to 26th. Cold N.E. winds after 27th, giving a welcome check to vegetation.

VI. *Clifton, Pembroke Road.* Mild and rainy. The weather was principally of the "westerly type," with recurring depressions from the Atlantic. The last five days were colder, with northerly winds.—*Cirencester, Further Barton.* Mild, wet and dirty; scarcely a day without some R. Several days of strong rough wind, but no serious gales.—*Ross, The Graig.* Frequent R, but not heavy after the first week. Scarcely any frost; only four frosty days, and the lowest min. only 24°·2 in the screen. No S fell, though at the close the hills were slightly covered above 700 feet.

VII. *Worksop, Hodsock Priory.* Mild and rather wet, with very little frost.

VIII. *Chelford, Astle Hall.* Cold and wet ; frost on nine days.—*Bolton, The Park.* R 2·91 in. above the average. The wettest January with the greatest number of rainy days since records began in 1886. The temp., as in the two preceding years, was above the average, and the daily range ($7^{\circ}\cdot 2$) was the least on record. Mean temp. $39^{\circ}\cdot 1$, or $1^{\circ}\cdot 4$ above the average. Frost in shade on two nights only. Duration of sunshine eighteen hours, or six hours below the average. Bright sun on seven days. Slight T and L on 18th ; S on three days, and fog on three.—*Southport, Hesketh Park.* Wet, mild, and remarkably equable. Absolute minimum temperature higher than in any previous January since the commencement of the record in 1872. Mean temperature $2^{\circ}\cdot 1$ above the average. Frost in the Stevenson screen on one day only, and on grass on seventeen days. Total sunshine four hours more than the average. R 1·59 in. above the average. Moderate to fresh gales off the sea on eight days. H on five days ; slight S on the 6th ; hoar frost (at either 9 a.m. or 9 p.m.) on eight days ; fog on two days.—*Chatburn, Middlewood.* R 2·88 in. above the average of eleven years. R on twenty-six days, a quite unprecedented number.—*Broughton-in-Furness.* Dull and wet ; frequent fog, drizzle and high winds. Temp. high, with comparatively small range. Slight S on 31st.

IX. *Langsett Moor, Upper Midhope.* There were twenty-seven rainy days. On the 6th, 1·88 in. of R fell in eighteen hours. Heavy rain and storms occurred from 17th to 26th. Six nights and two days were very frosty.—*Hebden Bridge, Falling Royd.* Very wet and sunless, with R on twenty-eight days.—*Bedale, Thorpe Perrow.* Very wet, but not much S or frost. Out-of-door operations could not be carried out very favourably.—*Middlesbrough, Ormesby.* Damp, cool and unhealthy.

XI. *Llanvihangel Court.* Very gloomy, with no sun. The heavy falls of R were from S. and S.W., and followed by long periods of wind or light airs from W. to N.—*Brecknock, Llandefaelog-fach.* Damp, raw and cold. Only three days without R, yet the total amount was not great. A few S showers ; hail on three days.—*Douglas, Woodville.* R on twenty-seven days ; the total, 4·71 in., being less than might be expected. Mild on the whole, but often very raw and cold. H and fog were each noted on one day. S fell on two days. Strong winds occurred on ten days, on three with the force of a moderate gale.

XII. *Lillesleaf, Riddell.* A record January for R, which was 1·65 in. above the average, and fell on an exceptionally great number of days. The fall was mostly in the form of sleet, and in continuous

showers. The roads have generally been a mixture of mud, S, and half-melted ice. Ploughing has been very little stopped.

XIV. *Glasgow, Queen's Park.* Rather wet and stormy, though very free from frost and fogs.

XV. *Strathblane, Craigend Castle.* Stormy, with frost, R, S, and sleet throughout.—*Islay, Eallabus.* R and rainy days much above the average.

XVI. *Coupar Angus Station.* R 1·47 in. above the average. The month opened with a flood, and was very wet and changeable throughout. A few days of high temp. following the 22nd formed a noteworthy feature. No severe frost. Mean temp. 36°·3, or 1°·3 above the average.

XVIII. *Drumnadrochit.* R measured on every day of the month, a circumstance unprecedented during fourteen years. S on five days.

XIX. *Watten, H.R.S.* Fresh, open and wet; earth and air laden with moisture.

XX. *Cork, Wellesley Terrace.* R ·70 in. less than the average. Foggy to 20th, when it was most dense. Some sleet and S on 17th. Mean temp. 39°·5, or 1°·5 below the average.—*Derry Castle.* The wettest January since 1890, when 7·34 in. of R fell on twenty-nine days. R 80 per cent., and rainy days 32 per cent., in excess of the average of ten years.—*Miltown Malbay.* R almost without cessation; mist and fog, but without the gales and storms usual at the season.

XXI. *Templeudigan, Ballindoney.* Very wet, R falling on twenty-seven days.—*Kilkenny, Sion Villa.* Fine and seasonable. Frost on four occasions, and strong wind on three. Flood on river Nore on 1st, flooding streets in the lower part of the town; the water was four feet deep in the Church of St. Dominic.—*Rathmines, Leinster Road.* Constant gloom and wet, with R on almost every day, though the amount was not excessive.

XXII. *Doo Castle.* The new year opened with a deluge of R, 1·51 in. falling in the first twenty-four hours. The month was cold, stormy and wet, R falling on twenty-five days. The land was therefore saturated, and no agricultural work could be attempted; low-lying lands were more than ordinarily flooded, and bogs in this part of the country were almost impassable. H on four days.—*Markree Observatory.* Wet on the whole, but 64·8 hours of bright sunshine were registered, and the weather was considerably better than in December, 1899. Mean temp. 40°·7. H on six days. A storm of more

than usual violence raged during the night of the 27th and early morning of the 28th.

XXIII. *Belfast, Springfield.* Damp throughout; not much S or frost. Stormy about the middle. Vegetation fortunately held back.

FEBRUARY.*

I. *Kensington, Edith Road.* Stormy and wet, the first half very cold, the second very warm. Three heavy falls of S, more than has fallen since Christmas, 1886.—*Muswell Hill.* R 2·35 in., or 130 per cent. above the average, and exceeding that of any February since the record began in 1872, the nearest being February, 1881, with 4·03 in. There were three heavy falls of S. R or S was recorded on every day from 13th to 28th, amounting to 2·84 in.; the only dry period was for six days from 4th to 9th.

II. *Haslemere, Hazelhurst.* Cold and wet. R on twenty-one days, total 7·89 in.; the wettest February on record. Nine sunless days. Mean temp. 36°, max. 56°, min. 14° in shade, 8° on grass. The min. was below 32° on sixteen days in shade and seventeen on grass. Skating began on 7th, and continued till stopped by deep snow. On the break-up of the frost a flood carried away Guildford Bridge.—*Abinger Hall.* A very remarkable month; three heavy falls of S and one heavy R; also some severe frosts, which gave the weather an Arctic character. No damage was done by the extraordinary volume of water. The three falls of S made a total depth of nearly two feet.—*Frimley Green, Ridgemount.* A very miserable month; beginning with a heavy fall of S, equal to 1·61 in. of R, from 1st to 13th; then on 15th an inch of R fell and was followed by a rapid thaw and floods.—*Wallington.* Exceedingly wet and cool. R 2·93 in. above the average and the greatest February value on record. Mean temp. 37°·9, or 0°·8 above the average. Owing to the wet, garden and field operations were at a standstill. Duration of sunshine, 53·3 hours, being 8·3 hours below the average, and 19 per cent. of the possible amount. S on the ground from 2nd to 15th.—*Tenterden.* Exceedingly cold and wet, a considerable part of the R being due to S, which melted as it fell or soon after.—*Cranbrook, Hartley.* The wettest February in a record extending back to 1865.—*Birchington, Thor.* Very wet and stormy, with sharp frosts, the grass min. falling to 4° on 10th. Duration of sunshine, 84 hours.—*Hastings, Guestling Rectory.* Remark-

* See also *Met. Mag.*, March, 1900, p. 18, and April, 1900, p. 37.

ably rapid variations in atmospheric pressure between 10th and 19th ; the barometer on 15th fell .72 in. between 9 a.m. and noon, and .81 in. of R fell.—*Crowborough*. The frost, which began on the night of January 27th, continued till February 15th ; frost again of a temporary character on 21st. S on six days. The month was remarkable for frequent gales, for the heavy R (which is the greatest for February in twenty-nine years), and for the high night temp. during the last week. Severe storm from S.W. on 18th and 19th.—*Wadhurst, Lower Cousley Wood*. S on seven days.—*Bournemouth, Kempsey*. Remarkably wet, with R 175 per cent. above the average of eleven years. First half of month very cold, with mean temp. $33^{\circ}5$. Skating from 21st to 23rd.—*Christchurch, Winkton Lodge*. Cold and cheerless. R on twenty-one days, with a total of 3.55 in. ; the wettest February, except 1893, for nine years. S on two days. High flood in Christchurch on 15th, and the valley of the Avon was filled with water to the end of the month. Vegetation was at a standstill.—*West Dean*. The wettest February ever known. Very stormy, with intense cold, till 15th, the max. temp. being only 38° on 14th, and frost being registered on every day till 16th. A blizzard prevailed on 13th and 14th, the S drifting to a very great depth, stopping all traffic on roads, &c. This was followed by very heavy R, which continued with hardly any intermission, making outdoor work on the farm impossible.—*Temple House [Marlow]*. Very heavy S fell during the night of 2nd, to a depth of seven-and-a-half inches. Floods on 17th, the gardens and stoke-holes being under water. Great damage was done to trees by the S, large branches being broken off by its weight.

III. *Welwyn, Datchworth Rectory*. Very wet. On 2nd, 10th and 13th there were heavy falls of S, aggregating 1.98 in. Roads were impassable, being hedge-top high and fields knee-deep. This was followed on 15th by .93 in. of warm R, when water lay two feet deep on low roads, as the ground was frozen.—*Kensworth [Dunstable]*. The heaviest R recorded in any February, the nearest being 4.32 in. in 1883. Springs rose rapidly.—*Hitchin, High Down*. In the first two weeks only S fell, and on 13th much fell but drifted rapidly.—*Slough, Upton*. Very wet. Floods began to rise on 16th, culminated on 22nd, and steadily subsided after, but much water was still "out" on March 1st. Duration of sunshine, 53 hours ; fifteen sunless days.—*Abingdon, Culham*. The wettest February since 1883. Very cold from 7th to 14th, with two heavy S falls. The last few days were mild. High flood in the Thames, especially from 18th to 21st.—*Oxford, St. Giles*.

A notable month. The heaviest S in February since 1888, and by far the wettest February on record. Mean temp. $1^{\circ}\cdot 1$ below the average of thirteen years. The floods were the heaviest since 1894.—*Blisworth, Grafton House*. Very wintry and wet, with heavy falls of S, especially on the evening and night of the 13th, with strong S.E. wind, making drifts four or five feet deep. Strong gales on 15th, with S, sleet and R all day; this was the roughest day for some years. Rapid thaw on 16th, with large floods. The remainder of the month was milder and very wet. Sharp frosts on four days. R $3\cdot 49$ in. above the average of ten years.—*Thorney, Wryde House*. Very rough, with much S; roads impassable in some cases.—*Wisbech, Elm*. Very wet, with intense cold for the first half. A terrific southerly gale, with S all day on 15th, followed by a rapid thaw.

IV. *Billericay, Burghstead Lodge*. R, copious and frequent, being $1\cdot 80$ in. above the average. S on four days, amounting to $1\cdot 55$ in.—*Colchester, Lexden*. A typical "February fill dyke;" characterised by sudden variations in temp. Floods were out a good deal in the neighbourhood, and springs and ponds were filling up.—*Felixstowe, West View*. The wettest February in twenty-seven years.—*Ipswich, Bishop's Hill*. Dull, cold and foggy, with about three-and-a-half inches of S in the middle, and high winds. R more than twice the average, and the greatest since 1879.

V. *Bishop's Cannings*. R $2\cdot 47$ in., and rainy days seven, above the average.—*Tavistock, Whitchurch*. Cold and very wet. R more than double the mean, although none was gauged on the first nine days. The daily mean temp. varied from $30^{\circ}\cdot 6$ on 8th, to $50^{\circ}\cdot 7$ on 25th. S on eight days. H on three. Fog on four. Gales on five.—*Okehampton, Oaklands*. Wet and mild. A heavy S storm on 13th, and an extraordinarily rapid thaw on 15th, flooding the river to a great height.—*North Cadbury*. Wet; from 13th to the end R fell daily. The first fourteen days were very wintry; the max. temp. did not reach 40° till the 14th; after that it was not below $46^{\circ}\cdot 5$ until the 28th. The min. in shade was at, or below, 32° on every one of the first fifteen nights, and after that only once.—*Frome, Mells Rectory*. More R than in any February of the preceding ten.—*Long Ashton, Estate Office*. R $6\cdot 32$ in.; the heaviest February fall on record, being four inches over the average. S storms on 2nd, 3rd and 13th.

VI. *Clifton, Pembroke Road*. A record R for February, being by far the heaviest in forty-five years. The nearest approach was $4\cdot 94$ in. on twenty days in 1876. The aggregate of six inches in sixteen

consecutive days is very unusual, though not quite unprecedented in forty-five years.—*Cirencester, Further Barton*. Excessively wet. Very cold till 15th. The blizzard of 13th and 14th will long be remembered; almost all the roads were blocked. The heavy R which followed every day afterwards caused severe floods.—*Ross, The Graig*. R three times the average, and the largest by far since 1833. Six inches fell in fifteen days, an amount only reached once or twice before. In the first half there was almost constant frost, with some S, but after the heavy S fall of 13th, almost constant R and very gloomy, damp, miserable weather. The excessive R caused many landslips in the neighbourhood. The river Wye was unusually little affected, the wind not being in the right quarter for floods.—*Wolverhampton, Tettenhall*. The wettest February in twenty-seven years. R 2·04 in. above the average. S on ten days.—*Coventry, Priory Row*. Dark, gloomy and sunless, with great rains and floods.

VII. *Market Overton*. Very tempestuous. S on the ground most of the time; low temp. and very little sunshine. R much greater than for many years. Max. temp. seldom above 36°, and on many days not exceeding 32°.—*Worksop, Hodsock Priory*. Very wet and unsettled, with deep S and sharp frosts during the first half. The largest R for at least twenty-five years, and mean pressure the lowest in any month for twenty-two years, except February, 1879.

VIII. *Chelford, Astle Hall*. Very cold, with frost on seventeen days, and a good deal of S, six-and-a-half inches of S fell on 11th.—*Bolton, The Park*. The amount of R and S has not been exceeded in February since 1894. The S on the 10th was the heaviest for nineteen years. The mean temp. from 7th to 13th was only 25°·8. During the month the shade temp. fell below freezing point on seventeen nights. From the 15th it was milder. S fell on nine days. Bright sunshine was recorded on nineteen days, amounting to 38·5 hours.—*Southport, Hesketh Park*. Unusually wintry during the first fortnight, but mild afterwards. Mean temperature 3°·2 below the average. Frost in shade on sixteen days, and on grass or snow on twenty-three days. Total sunshine nine hours above the average. R 1·02 in. above the average. Gales from the south-east to the south-west on six days. S on seven days; total depth for the month nearly nine inches. Ice on the lake in Hesketh Park on nineteen days, the max. thickness being 3·7 inches. Hoar-frost on fourteen days.—*Broughton-in-Furness*. The first half was cold, with S on the ground nearly all the time, and very severe frosts, the mean temp. for the fourteen days

being only 29°·6. The latter half was much milder, the S disappearing and a good deal of R falling; the mean temp. of the last fourteen days was 40°·9.—*Seathwaite, Vicarage*. The most wintry month of the whole season, with the heaviest fall of S known for years.

IX. *Langsett Moor, Upper Midhope*. Exceedingly wintry during the first three weeks; keen frost on four nights. Very heavy falls of S on 10th and 15th, the latter date with very rough weather.—*Hebden Bridge, Falling Royd*. Cold and wet. Temp. in shade never rose to 40°, and on five nights sank below 20°. S fell continuously from the afternoon of 9th to the morning of 10th, when it lay fourteen inches deep. The heaviest fall previously known was eight inches in 1888.—*Ripon, Mickley*. Eighteen inches of S fell.—*Thixendale*. A severe winter month and much snow-cutting necessary on the roads.—*Aysgarth Vicarage*. Great S storms on 10th, 11th and 15th; scarcely any R.—*Middlesbrough, Ormesby*. Very wet and stormy, with much S. Blizzard on 15th.

X. *Sunderland, West Hendon House*. Exceptionally wet, but the only month in the year with less than the average cloud.—*Haltwhistle, Unthank Hall*. Violent S storms, with wind and heavy drifts from 8th to 22nd. Snowed up on 11th and 15th.—*Newcastle, Clifton Road*. The wettest February yet recorded here.—*Pawston [Coldstream]*. R four times the average of 24 years, making this the wettest February on record.—*Keswick, Shu-le-crow*. S only for the first fifteen days, blocking the local railway on 15th.

XI. *Llanfrechfa Grange*. Very cold, with sharp frosts; far colder than January. An unusual amount of R in the latter part. Vegetation was much retarded.—*Llanelly, New Road*. R nearly seven inches, the heaviest fall ever recorded in February. The watercourses failed to take it off, and there were floods everywhere.—*Brecknock, Llandefaelog-fach*. Wet and cold. S on seven days; H on two. On thirteen days the max. temp. was at or below 32°.—*Douglas, Woodville*. No such hard wintry weather as that which prevailed during the first half of the month has occurred since February, 1895. The latter half was persistently wet. S fell on six days, two were foggy; frost occurred on thirteen days, and strong winds on five days.

XII. *Lilliesleaf, Riddell*. R 2·18 in. above the average. One of the most remarkable and disagreeable months ever experienced. Many heavy S storms often blocking the roads for days. On 24th, when the thaw came, it was followed by a higher flood than had been seen for many years.

XV. *Strathblane, Craigend Castle*. The first half was fine with hard frost, and the second half frosty with S and R.—*Islay, Eallabus*. High winds and generally stormy. Temp. much lower than usual, the min. being 12° on 10th.

XVI. *Coupar Angus*. R 1·62 in. above the average. Very severe frost during the first two weeks, reducing the mean temp. to $30^{\circ}6$, or $5^{\circ}5$ below the average.

XVIII. *Loch Shiel, Glenaladale*. A severe winter month, but fine and seasonable, with a good deal of sunshine.—*Aviemore, H.R.S.* Severe frost from the beginning till 19th, then R and frost till the end.

XIX. *Bettyhill*. Three weeks of frost and S.—*Watten, H.R.S.* In the first half, heavy S storms and severe frost occurred, but the weather was calm and often bright; then thaw, and violent storms of sleet and R.

XX. *Derry Castle*. A very severe month; R 51 per cent. above, but rainy days 12 per cent. fewer than, the average of 10 years. The S fall on the 8th was the heaviest experienced since February, 1895. From 14th to the end constant and cold R prevailed.—*Miltown Malbay*. The first half opened with sharp frost, ending with falls of S on five successive days, the ground remaining covered for a week. From the 15th to the end, cold, inclement, squally weather, with R and H occasionally.

XXI. *Templeudigan, Ballindoney*. The wettest February recorded here. The first fortnight was very cold; min. temp. 15° on 12th, and much snow.—*Kilkenny, Sion Villa*. Very hard weather, the whole month being frosty, with skating from 7th to 14th. Heavy fall of S six inches deep on 10th.—*Rathmines, Leinster Road*. The heaviest R since 1884. Severe frost and frequent snowfalls in the first fortnight, then changeable but milder to 25th. Heavy R and intense gloom on the last three days.

XXII. *Doo Castle*. The beginning was fine and frosty, and the remainder the counterpart of January—cold, wet and tempestuous. Nothing in the way of preparation of the soil could be attempted, and farmers were much behindhand.

XXIII. *Enniskillen*. Hard frost, with slight S on the ground from 1st to 13th. R and unsettled weather from 14th to 27th.—*Belfast, Springfield*. From 1st to 14th only ·17 in. of R fell. Frosty nights, but min. temp. not lower than 20° . From 14th to 27th more or less R fell every day.

MARCH.

I. *Muswell Hill*. R 1·01 in., or 56 per cent., less than the average of twenty-eight years. R or S fell on eight days, but none between the 4th and 18th. The last nine days were dry, except for S on 27th.

II. *Haslemere, Hazelhurst*. Dull and cold. Five sunless days and five with less than one hour's sun. Wind westerly most of the month. Mean temp. $37^{\circ}\cdot5$. Min. below 32° in shade on fifteen nights, on grass on twenty-one.—*Redhill, Oxford Road*. The days were often sunless and the nights clear; hence both were cold. Mean temp. $37^{\circ}\cdot7$, or $2^{\circ}\cdot8$ below the average.—*Wallington*. Cold, dry, and sunless. The shade max. is the lowest on record, except March, 1888. The amount of cloud the highest, except in 1896. Vegetation of all kinds was backward. Mean temp. $38^{\circ}\cdot8$, or $2^{\circ}\cdot8$ below the average. R ·90 in., and rainy days six, below the average. Duration of sunshine 74·1 hours, being fifty hours below the average, and 20 per cent. of the possible.—*Birchington, Thor*. Very cold and dull. Sharp frosts on several nights. Cold N. and N.E. winds prevailed, with several slight falls of S. Duration of sunshine 137 hours.—*Sheppey, Leysdown*. Very fine and dry. Nearly all the R fell in one night, ·90 in. on 18th. Cold throughout, with E. winds generally. Several sharp frosts.—*Lewes, Saxonbury*. Bright and dry, with S showers, frosts, and sunny days, with cold N.E. winds.—*Crowborough*. R much below the average. The feature of the month was the cold and frost. A sprinkling of S on 1st, 2nd and 3rd, a fall of four-and-a-half inches on 18th, and again a sprinkling on 26th. Wind chiefly N., but comparatively little strong wind during the first half.—*Christchurch, Winkton Lodge*. Damp and cold, with frequent showers of H and S. Temp. on 12th rose to 57° .—*West Dean*. Very cold and inclement, scarcely any sunshine, and great prevalence of harsh winds with frequent showers of dry S. Vegetation everywhere very backward, and pastures quite brown at the end of the month.—*Hartley Grange*. S fell on six days, the total being ·67 in. out of a fall of 1·16 in. for the month.

III. *Wendover, Halton Gardens*. S showers on ten days. N.E. winds prevailed throughout.—*Abingdon, Culham*. Cold and dry with little sun. Some sharp night frosts in the latter half.—*Swerford*. S on eight days; seven sunless days; fog on six days.—*Pitsford, Sedgbrook*. R 1·06 in. below the average of ten years.—*Wisbech, Elm*. Very cold and generally dull, with prevalent light northerly winds and anti-cyclonic conditions.

IV. *Billericay, Burghstead Lodge.* R frequent, but the total .50 in. below the average. S on two days.—*Colchester, Lexden.* Many sunless days. Temp. generally low; twenty-one grass frosts. The season being backward, fruit blossom did not suffer as it did two years before.—*Ipswich, Bishop's Hill.* R .90 in. less than the average. Cold and dry, with several small falls of S, and frost nearly every night.

V. *Tavistock, Whitchurch.* Cold and showery. R slightly below the average. Mean temp. varied from 47°·6 on 11th to 32°·4 on 18th. Prevailing wind N.E. S on twelve days, lying on the ground from 16th to 21st, and on 26th and 27th, the maximum depth being four-and-a-half inches on 20th. H on six days; fog on two days.—*Wellington, The Avenue.* Dry, and one of the coldest Marches for a great number of years. Frost occurred on thirteen nights, that on 17th being especially severe. S fell on several days. *North Cadbury.* E. and N.E. winds nearly all the month, with persistently dry air and low max. temp. The frosts were severest in the latter half, and there was only one night after 15th without frost on grass. Extremely cloudy for the first nine days. The first fourteen days were fairly quiet; from 15th to 23rd a high average of persistent wind but no gale.

VI. *Clifton, Pembroke Road.* R an inch below the average. Cold, with a prevalence of N. and N.E. winds. *Cirencester, Further Barton.* Bleak, cold and wintry throughout. R small, and mostly in the form of S.—*Coventry, Priory Row.* Dull, dry and sunless, with temp. ranging from about 30° to 42°.

VII. *Worksop, Hodsock Priory.* Dry, rather dull and cold, especially during the day. A good deal of northerly wind and a little S towards the end.

VIII. *Chelford, Astle Hall.* Cold and dry, with frost on fourteen days, and S on six. Wind always from E. or N.—*Bolton, The Park.* The chief characteristics were: mean temp. 2° below the average; R, 1·88 in. below the average; short duration of sunshine; many dull days and persistent E. or N. winds. The precipitation, chiefly S, was the least since the observatory was established. Till 14th no R or S had fallen, the weather being settled, with gentle E. or N. breezes, and cloudy or overcast sky. The effect of such weather was of advantage to farmers, as the soil was in suitable condition for preparing the land for sowing. Duration of sunshine fifty-five hours, or twenty-four hours less than the average. S fell on seven days.—*Southport, Hesketh Park.* Dry, calm, and somewhat cold, keen

northerly and easterly winds preponderating. Mean temp. $2^{\circ}3$ below the average. Frost in shade on ten days, and on grass on twenty-three days. Total sunshine twenty-one hours below the average. R $1\cdot25$ in. below the average. Moderate gales on four days. Snow on seven days; total depth for the month $2\cdot2$ inches. Hoar-frost on seven days.—*Broughton-in-Furness*. The driest March in twenty-eight years.—*Seathwaite Vicarage*. Dry, with persistent cold N. winds.

IX. *Langsett Moor, Upper Midhope*. Cold and dry throughout, the last fortnight very wintry, with severe frosts on fourteen nights.—*Goldsborough Hall*. Very dry, dull and cold, particularly from 4th to 10th, and 22nd to the end.—*Thixendale*. Wintry weather, with a slight break from 10th to 12th. Min. temp. 5° on 18th.—*Aysgarth Vicarage*. Almost all the precipitation was S. On 28th, on a hill 1,600 ft. high, a mass of S, filling a deep hollow, was found to be eighty-two feet deep. This was drifted on February 15th.

X. *Keswick, Shu-le-crow*. The small R, $\cdot68$ in., is without parallel since the record began in 1873. The previous lowest was $1\cdot62$ in. in 1887.

XI. *Llanfrechfa Grange*. Very damp. The ground sodden in February did not dry; sowing could not be done on clay lands till the end of the month. Very cold winds, especially in the last week, but some warm sunshine.—*Llanvihangel Court*. Very cold and sunless. Wind W. and N.W. to 18th, afterwards N.E., N. and E. to the end, but never very strong.—*Brecknock, Llandefaelog-fach*. Very cold and wintry. Heavy falls of S, and frequent showers of sleet.—*Douglas, Woodville*. Very cold, gloomy and sunless, with polar winds throughout, mostly from N.E., reaching the force of a moderate gale on three days. S on eight days. Hardly any sign of awakening vegetation.

XII. *Lilliesleaf, Riddell*. Dry, but excessively inclement; unusually cold and snowy, with N.E. wind on sixteen days, but it was rarely strong. There were continual showers of S and sleet. Few springs have been so bad for lambs as 1899 and 1900. Everything very backward, especially grass, which was still quite brown on 31st.

XIV. *Dalry, Blair*. The driest month for seven years.

XV. *Strathblane, Craigend Castle*. Frost throughout, also dry; there being sixteen days without R.—*Inveraray, Newtown*. Very fine and dry, but with frosts at night.—*Ballachulish, Ardsheal*. Very dry, R $6\cdot17$ in. below the average.

XVI. *Coupar Angus Station*. Generally cold and dry. Temp. much like February, but R and other conditions quite reversed.

XVIII. *Loch Shiel, Glenaladale.* Fine, cold and very dry. Wind chiefly easterly and generally moderate. Vegetation backward. Mean temp. $39^{\circ}\cdot3$.—*Aviemore, H.R.S.* Very cold with easterly wind, and sleet from 12th to the end.

XIX. *Bettyhill.* Very cold and stormy with a considerable fall of S.

XX. *Dunmanway, Coolkelure.* Dry and very cold. Wind almost constantly between N. and E. The season was very backward.—*Cork, Wellesley Terrace.* R a little more than one-fourth of the average. The coldest March for seventeen years, and probably for a longer period. Light S shower on 16th, and heavy on 18th.—*Derry Castle.* The driest March in twenty-two years; R $\cdot84$ per cent. below, and rainy days just half, the average of ten years. The weather was very harsh all through, but the frosty winds dried up the land and favoured tillage operations.—*Miltown Malbay.* More bitter, harsh and unhealthy than any month in memory, yet the weather was favourable for tillage.

XXI. *Kilkenny, Sion Villa.* Fine weather with many lovely days. S on 1st and from 16th to 20th, eight inches deep but forming heavy drifts. Thaw set in on 21st, S again on 26th, frost from 26th to 29th and H on 27th and 28th.—*Castledermot.* Mild and dry till 17th, then very cold and harsh to the end.—*Rathmines, Leinster Road.* R much below the average. Drought for the first fortnight, with overcast sky and average temp. Severe with frequent S till 24th, and the remainder, though brighter, very cold.—*Athlone, Twyford.* Dry. The smallest R in twenty-five years' record.

XXII. *Westport, Murrisk Abbey.* Generally cold, but good for agricultural pursuits. Vegetation of all kinds backward.—*Markree Observatory.* Very dry, and less windy than usual. S on 16th, 17th, 19th, 20th and 26th. Duration of sunshine $88\cdot8$ hours.

XXIII. *Enniskillen.* Fine and dry, but cold, the prevailing winds being N. and E. Splendid weather for getting in the seeds, but no growth on account of the cold.—*Belfast, Springfield.* Prevailing winds E. to N.W. The drying winds and nearly constant sunshine brought the land into grand condition.

APRIL.

I. *Kensington, Edith Road.* Rather warm, with three very hot days, 20th—22nd.—*Muswell Hill.* R $\cdot61$ in., or nearly 35 per cent. less than the average of twenty-eight years. R was registered on fourteen days, but on eleven the amount did not exceed $\cdot07$ in. The wettest period was from 3rd to 11th, when $\cdot96$ in. of R fell.

II. *Haslemere, Hazelhurst*. Fairly sunny, 108 hours more bright sunshine than in March. R on fifteen days, chiefly in the earlier part of the month. Mean temp. 46° , max. 75° , min. below 32° on eight nights in shade, and twelve on grass.—*Abinger Hall*. Dry. The wind was chiefly N. or N.E., and light showers were frequent in the first half. Three severe frosts occurred in the last week, doing considerable damage to currant, plum and pear blossom.—*Wallington*. R $\cdot 65$ in. below average and temp. about average. The fruit blossom was a magnificent sight. Duration of sunshine 175.9 hours, being 8.4 hours above the average and 42 per cent. of the possible amount.—*Sheppey, Leysdown*. Much rough windy weather particularly from 11th to 16th. On the whole cold, but the temp. rose towards the end.—*Lewes, Saxonbury*. Cold and showery till 18th; then five hot days; very high temp. on 21st and 22nd; cold and bright after. Swallows first seen on 17th, wryneck, cuckoo and nightingale on 18th, and marten on 28th.—*Crowborough*. Dry. The first part was cold; frost occurred on 1st, 2nd, 9th, and again on 26th. Great heat from 18th to 25th, the shade temp. reaching $74^{\circ}\cdot 4$ on 21st.—*Christchurch, Winkton Lodge*. R below the average. Temperature variable, but during a spell of brilliant weather in the middle of the month there were six days of unclouded sunshine. Cold N. winds retarded foliage. Swallows were seen on the 12th, punctual to time, but the nightingale and cuckoo were ten days late in appearing.

III. *Slough, Upton*. Strong westerly winds at Easter, followed by a short spell of great heat. Duration of bright sunshine 176 hours.—*Abingdon, Culham*. Cold and dry with little sun and several sharp night frosts.—*Oxford, St. Giles*. R $1\cdot 25$ in. below the average. Mean temp. average, but the max. was unusually high, being above 70° on three days. Season backward at the beginning of the month, but the warm days from 18th to 24th brought blossom out rapidly. The cuckoo was in full song by 23rd, and swallows were seen on 25th, but were not plentiful by 30th.—*Wisbech, Elm*. Dry, with very strong winds, and gales from 13th to 15th. A wonderfully warm spell occurred in the middle of the month, with a large amount of bright sunshine.

IV. *Colchester, Lexden*. Dry. Season backward.—*Sudbury, Friars Street*. Temp. very variable. Rather cold and unsettled at the commencement. Finer towards the end.—*Ipswich, Bishop's Hill*. R $\cdot 16$ in. below the average. Unsettled, with high winds, and great variation of temp.

V. *Bishop's Cannings*. R .51 in. above, and rainy days about, the average.—*Tavistock, Whitchurch*. Showery and variable, with about average temp. Fog on eight days.—*Okehampton, Oaklands*. Dry and cold; vegetation very backward.—*Wellington, The Avenue*. Very stormy and windy during the first portion, but generally fine, and very warm at times during the latter. The 21st was unusually warm. R about half-an-inch below the average.

VI. *Clifton, Pembroke Road*. R an inch below the average. Typical April weather; summer-like from 18th to 24th, then a sudden change to winter again. Strong westerly winds from 10th to 16th.—*Cirencester, Further Barton*. Cold and showery till 10th; from 10th to 17th very strong S.W. winds and gales, with hardly any intermission. From 18th to 24th a sudden burst of summer heat. The 25th was a bitterly cold day, and the last five days were variable but cold. Vegetation has seldom been so backward.—*Ross, The Graig*. R, as in March, very deficient. Summer-like weather at first, changing suddenly to cold and frost, with bitter E. wind at the close. Vegetation, which had made remarkable progress by the 25th, was much checked.—*Coventry, Priory Row*. Cold and backward till 18th, when there was a sudden burst of fine hot weather, with a rapid change in vegetation. On 26th and 28th, clear nights and sharp frosts, cutting off fruit blossoms and green vegetables.

VII. *Worksop, Hodsock Priory*. Dry and fairly fine. Cold at first, very warm about 20th, some frosts in last week. Heavy gales about 12th. Max. temp. 73°·5 on 21st.

VIII. *Chelford, Astle Hall*. Very mild in the middle, but cold at the beginning and end of the month, with frost on eight days.—*Bolton, The Park*. R .20 in. above the average. The first sixteen days were characteristic of April: changeable, with intermittent sunshine and passing showers, but cold. Then followed an anti-cyclonic period of eight days, with high temp., especially on 20th and 21st, and brilliant sunshine. This was followed by a decided fall of temp. on 25th, with N.E. wind. Frost in shade on three nights, and on grass on nine nights. Duration of sunshine 134 hours, or 26 hours above the average.—*Broughton-in-Furness*. Fine and seasonable. Very hot at the end of the third week, but much cooler afterwards, with cold winds.—*Seathwaite Vicarage*. Rather rainy and generally cold, with a burst of summer-like weather from 18th to 25th. Vegetation at the commencement fully a fortnight late.

IX. *Langsett Moor, Upper Midhope*. Stormy, with heavy rain from

10th to 16th. Frost on seven nights, very keen for the season on 25th and 27th.—*Goldsborough Hall*. The first half was generally dull and showery. Up to 17th R fell on thirteen days. The 11th, 12th and 13th were very stormy, with strong S.W. winds. From 17th to the end was dry, only .20 in. of R falling on four days. Warm weather lasted from 17th to 24th, after which it was much colder.—*Baldersby*. Westerly winds prevailed, but the weather was cold and vegetation was three weeks late.

X. *Brampton, Denton House*. Wet, with R nearly double the average for the ten years 1890-9.

XI. *Llanvihangel Court*. A sunless month; vegetation very backward. Winds chiefly N. to W. till 18th, then S.E. or N.E. till 28th, very light.—*Douglas, Woodville*. The cold and gloomy weather of March continued during more than half of this month, with unusually severe, almost unbroken, N.W. gales from 9th to 16th. From 17th there was a welcome change to warmth, which lasted till 22nd, when thorn hedges and plum-blossom responded almost magically. The end of the month was again cold, with strong polar winds.

XII. *Lilliesleaf, Riddell*. R .91 in. above the average. Unusually cold and windy, with three very hot days from 19th to 21st, which brought forward vegetation rapidly, only to be checked immediately afterwards by the frost of 25th, which did severe damage.

XV. *Strathblane, Craigend Castle*. R and frost in the first half; dry and fine, with slight showers, in the second.

XVI. *Dollar*. The latter half was very fine, but growth was later than usual.—*Coupar Angus*. The first and last weeks were cold; the middle of the month was warm, particularly the four days following the 16th, the temp. reaching 71°·5 on 20th.

XVIII. *Loch Shiel, Glenaladale*. Wet; vegetation backward. Mean temp. 45°·6.—*Aviemore, H.P.S.* Cold E. winds nearly the whole of the month, except four good days at the beginning.

XX. *Cork, Wellesley Terrace*. More sunshine than showers, giving most favourable weather for the visit of our beloved Queen to Ireland. R little more than half the average; mean temp. exactly the average.—*Derry Castle*. R 6·6 per cent. above, but rainy days 5·6 per cent. below, the average of ten years. Stormy, cold and wet during the first half, but from 17th to the close beautifully fine and mild and favourable for vegetation.

XXI. *Kilkenny, Sion Villa*. Generally very fine. Gales and storms

between 11th and 16th.—*Ballybrack, Streamville*. R 1·28 in. less than the average, and less than in any April since the record began in 1877.

XXII. *Markree Observatory*. Dry on the whole, especially from 16th to 25th. Some frost at the beginning and towards the end, but bright sunshine on several days.

XXIII. *Enniskillen*. The first half was cold and wet, and the latter half dry but cold, except from 19th to 23rd, when there were a few beautiful days. A very late spring.—*Belfast, Springfield*. Cold; very stormy from 11th to 13th, more like equinoctial gales than April weather. Some frost occurred, but did little harm, vegetation of all kinds being backward.

MAY.

I. *Muswell Hill*. R ·90 in., or 47 per cent., less than the average of twenty-eight years. One-third of the monthly total fell during the first nine days; a nearly dry period of eleven days followed. The last week was dry on the whole.

II. *Haslemere, Hazelhurst*. Moderately sunny. A rainy and squally period from 21st to 24th accounted for 1·42 in. out of the 1·77 in. of R. Mean temp 50°. Min. on grass below 32° on four nights but never lower than 30°. Wind from quarters between N.W. and N.E. on nineteen days. The great display of fruit blossom set well.—*Abinger Hall*. Very dry with cold N.E. winds for the greater part.—*Redhill, Oxford Road*. R ·60 in. below the average. Mean temp. 51°·3, or 1°·1 below the average. —*Wallington*. R ·64 in., and rainy days one, below the average. Cold, dry and cloudy, with a small amount of sunshine. The max. temp. was low. The wind force was the greatest on record in May except 1887, and the amount of cloud has never been exceeded, in May though equalled in 1887. Mean temp. 52°·0, or 1°·8 below the average. Duration of sunshine 169 hours, being thirty-eight hours below the average and 35 per cent. of the possible amount.—*Birchington, Thor*. Very cold and dry with N.E. wind prevailing. Duration of sunshine 242 hours.—*Lewes, Saxonbury*. Cold and dry; all vegetation backward. Very high, rough N.E. wind from 13th to 15th. No R from 7th to 21st. Partial drought for 33 days ending on 21st. Swift first seen on 6th.—*Christchurch, Winkton Lodge*. Cold and windy, the mornings usually bright, the afternoons dull, frequently with rain.—*West Dean*. Very cold and inclement. Mean max. temp. 58°·7, the lowest for fourteen years. Frost on the ground occurred on

twelve nights and was severe on 14th, 15th and 16th. High N. and N.E. winds were very frequent. Leafage was not completed at the end of the month. Hay and wheat prospects very poor.

III. *Oxford, St. Giles.* Cold and ungenial.—*Pitsford, Sedgebrook.* R 1·00 in. below the average. Mean temp. $50^{\circ}7$.—*Wisbech, Elm.* Very cold, with great prevalence of N. winds. Mean temp. $51^{\circ}5$.

IV. *Billericay, Burghstead Lodge.* R ·70 in. below the average, but frequent.—*Colchester, Lexden.* By no means genial. Sudden variations of temp. Very warm from 2nd to 8th, followed by a cold spell till 20th. Much cold wind. Cereal crops not going forward.—*Ipswich, Bishop's Hill.* R ·72 in. below the average. Dry and cold with a prevalence of N., N.E. and N.W. winds.—*Rendlesham Hall.* Sixteen days N.W. to N.E. winds. Strong cold N.E. winds at the end; now and then a fine warm day.

V. *Bishop's Cannings.* Cold especially from 13th to 17th. R ·07 in., and rainy days one, below the average.—*Tavistock, Whitchurch.* Rather cold with average R. Mean temp. varied from $55^{\circ}9$ on 30th to $43^{\circ}8$ on 14th. The max. temp. rose to 60° on seven days only. Prevailing winds S.W. Fog on three days.—*Wellington, The Avenue.* R rather above the average. Generally cool with no great amount of sunshine. Wind mainly from E. or N.E.

VI. *Clifton, Pembroke Road.* R slightly above the average. Two periods of mild and showery weather, a dry time with E. wind intervening. Not very much sunshine. A backward season.—*Cirencester, Further Barton.* Typical March weather, only with longer days and increased sunshine. The prevailing characteristics were wind and cold. All vegetation backward.—*Ross, The Graig.* Very wet from 2nd to 9th, and showery from 21st to 24th, otherwise dry. Cold almost throughout; vegetation about a fortnight late, but not much damage was done to crops.—*Coventry, Priory Row.* Cold, with drying winds at the end, keeping the season late. Much fruit blossom at Stoke was destroyed by frost.

VII. *Worksop, Hodsock Priory.* Dull but dry. A good deal of N.E. wind, and very little warm weather.

VIII. *Chelford, Astle Hall.* Fine and dry. Cold E. winds up to 18th.—*Bolton, The Park.* Mean temp. $48^{\circ}1$, or $1^{\circ}5$ below, and R ·41 in. below, the average. Duration of sunshine 142 hours, or eighteen hours less than the average, occurring on twenty-seven days.—*Southport, Hesketh Park.* Mean temp. $0^{\circ}5$ below the average. Frost on the grass on four nights. Total sunshine thirty-four hours

below the average. R 0·26 in. below the average. A fresh gale on the 3rd, and a moderate gale on the 9th.—*Broughton-in-Furness*. Generally speaking bright, sunny days, with cold E. winds, keeping vegetation very backward.

IX. *Langsett Moor, Upper Midhope*. Dry and cold as a whole, with frequent ground frosts.—*Goldsborough Hall*. Very little R. Generally dull and cold, with N.E. and S.E. winds.

XI. *Llanfrechfa Grange*. In the middle the temp. was low, but became higher towards the end. Flowering shrubs very backward. The thorns and rhododendrons not coming out till the end of the month.—*Llanvihangel Court*. Very cold and unseasonable, with a great deal of N.E. wind. Vegetation backward.—*Brecknock, Llande-faelog-fach*. Cold and cheerless, with high winds. Full bloom on fruit trees, but frosts damaged those which blossomed early.—*Douglas, Woodville*. Wet and very stormy to the 12th; E. and N.E. winds, more or less strong, prevailed, and the annual May gales were frequent, working great havoc among young foliage, and especially fruit blossom, which was magnificent. Vegetation backward.

XII. *Lilliesleaf, Riddell*. R about the average. A low max. temp. Five days with frost, but owing to the excessive dryness, no material damage was done to fruit trees.

XV. *Strathblane, Craigend Castle*. At first cold and showery; fine and mild from 8th to 20th; the rest showery.—*Inveraray, Newtown*. Cold, with a chill in the air even on the fine sunny days.—*Ballachulish, Ardsheal*. R 3·06 in. above the average.

XVI. *Coupar Angus Station*. The feature of the month was the heavy R, being 1·01 in. above the average. Mean temp. 48°·3, or 0°·2 above the average. Frost registered on only three nights, but the days were cloudy and cold.

XVIII. *Aviemore, H.R.S.* Sharp E. wind for the first ten days, and fine bracing air during the rest of the month.

XIX. *Watten, H.R.S.* The first half was cloudy and stormy, with cold winds and frost at night; followed by a week of R, cold and wind. The last week was dry and milder, but sunless.

XX. *Cork, Wellesley Terrace*. R a quarter of an inch less than the average. Mean temp. 1·7 in. below the average.—*Derry Castle*. R 9·3 per cent. below, but rainy days equal to, the average of ten years. The opening week was stormy and wet, then ten days of dry but harsh weather, with E. to N. winds. Rough and wet from 20th to 27th, with W.S.W. to S.E. winds. The closing days were beautifully

fine and warm.—*Miltown Malbay*. With the exception of a few days at the end, this month resembled March more than May. Bitter, cold and ungenial, with a frosty air, setting back all vegetation.

XXI. *Kilkenny, Sion Villa*. Fairly fine weather, improving towards the end of the month. Storms on 3rd, 4th and 21st.—*Ballybrack, Streamville*. R .08 in. above the average. Vegetation of all kinds was exceedingly backward, and the ample R proved beneficial.—*Rathmines, Leinster Road*. Harsh, cloudy and changeable. Dry after the first week.

XXII. *Markree Observatory*. Cold at first, but hot and dry for the last few days. H on five days.

JUNE.

I. *Kensington, Edith Road*. Rather warm, with three very hot days, 10th to 12th.—*Muswell Hill*. The wettest June since 1890. R .60 in., or 27 per cent., above the average, falling on seventeen days distributed throughout the month. The wettest week was from the 19th to 25th, during which R fell on every day except 23rd, amounting to 1.44 in.—*Finchley, Etchingham Park*. R .85 in., or more than 47 per cent., above the average of fourteen years; though it fell only on seventeen days, the greatest number of consecutive fine days was only three.

II. *Haslemere, Hazelhurst*. Sunshine deficient, making roses late. R on seventeen days, its abundance producing a good hay crop, but in many places making it difficult to secure. Mean temp. 57°, max. 82°, min. in shade 43°, on grass 40°.—*Redhill, Oxford Road*. Mean temp. 59°·2, or 0°·2 above the average of twenty years. R .56 in. and rainy days six, above the average of thirty-three years.—*Wallington*. Wet, with a mean temp. about the average. R 1.31 in., and rainy days four, above the average. The R was exceeded in June only in 1892, during the last twenty years. The mean shade max. was low, whilst the mean min. was high. The R benefited garden produce, but dry warm weather was wanted for farmers. Mean temp. 59°·8, or 0°·1 above the average. Duration of sunshine 203.1 hours, being 5.6 hours below the average and 41 per cent. of the possible amount.—*Lewes, Saxonbury*. The first fortnight was bright and warm, very hot on 11th and 12th, cooler after. On 21st 1.10 in. of R fell. Winterbourne stream ceased flowing on 26th.—*Christchurch, Winkton Lodge*. Cool and breezy, with the heaviest R in June (2.02 in.) for nine years, except 1897. There were seventeen dry days, and hay was got in

well, although the crop was poor on account of the drought of the two previous years.—*West Dean*. Cold and stormy with the exception of four very hot days. High winds were frequent, and reached the force of a gale on 22nd and 23rd. Mean temp. $58^{\circ}1$. Vegetation very backward at the end.

III. *Abingdon, Culham*. Showery and unsettled.—*Swerford*. Fog on one day. T was heard on nine days. TSS broke overhead, on 7th, 12th and 25th.—*Pitsford, Sedgebrook*. R 1.46 in. above the average of ten years. Mean temp. $58^{\circ}9$.—*Wisbech, Elm*. Very wet, without a great volume of R. Temp. pleasant as a whole; very hot on 11th and 12th. Frequent TSS, in one of which a creeper on the house appeared to have been struck by L. T on nine or ten days. Mean temp. 60° .

IV. *Colchester, Lexden*. Hot from 10th to 12th; otherwise cool and showery. Nice growing weather.—*Ipswich, Bishop's Hill*. R 1.50 in. above the average. Wet and dull; generally cold, with the exception of a few days before the storm on the 12th.—*Parham, The High House*. More R than in any other June since 1884, when the record began.

V. *Bishop's Cannings*. R .27 in., and rainy days seven, above the average.—*Tavistock, Whitchurch*. Wet, damp, cloudy and rather cold. Mean daily temp. varied from $63^{\circ}6$ on 5th to $53^{\circ}0$ on 29th. The max. rose above 70° on four days only. Prevailing winds W. and S.W. Fog on eight days.—*North Cadbury*. Cool, cloudy and rainy, without extremes, and with a high average of wind. The first twenty days were favourable for producing an enormous hay-crop; the last ten equally unfavourable for securing it. N.E. winds till noon on 5th, after that almost entirely S. to W. winds.

VI. *Cirencester, Further Barton*. Rough and unsettled, only three or four really summer-like days. The number of days with strong winds was quite unusual for June.—*Coventry, Priory Row*. A good and very valuable R, with warmth, and rapid growth of vegetation, giving a good hay crop.

VII. *Worksop, Hodsock Priory*. Mild and rather showery. Max. temp. $83^{\circ}7$ on 12th; a good many TSS passed near between 11th and 20th, but most of the R missed this station.

VIII. *Bolton, The Park*. R .22 in. above the average. The weather was highly favourable to agriculture and horticulture, the temp. being rather above the average, and of slight range, with frequent gentle showers of R. Mean temp. $57^{\circ}7$, or $1^{\circ}4$ above the average; the

month's range, 14° , was unusually slight. Duration of sunshine 147·5 hours, or fourteen hours less than the average.—*Chatburn, Middlewood*. R ·11 in. below the average of eleven years.—*Broughton-in-Furness*. The first week was very warm and sunny; then showery, with a little T. The rest of the month was cooler, with showery, unsettled weather.

IX. *Langsett Moor, Upper Midhope*. More than 80 per cent. of the R fell during TSS on seven days. Great heat from 10th to 12th.—*Goldsborough Hall*. Dull, with very few days of bright sunshine. The 1st was very cold, then warmer till 12th, from 12th to the end generally dull and showery. On only eight days did the shade max. reach 70° ; on two days 80° and above.—*Thixendale*. Very cold at first, but after the 10th the heat became overpowering.—*Middlesbrough, Ormesby*. Very wet and cold.

X. *Newcastle, Clifton Road*. The wettest June yet recorded here.

XI. *Brecknock, Llandefaelog-fach*. Cold, dull and damp. No hay harvested.—*Douglas, Woodville*. Cold and ungenial, with much wind for the season, neutralising the effect of the otherwise sufficient R. Vegetation made slow progress and the foliage of forest trees was singularly poor.

XII. *Lilliesleaf, Riddell*. R considerably above the average. Cold, and very thundery with heavy R and H storms.

XIV. *Colmonell, Clachanton*. T on five days, L on two.

XV. *Strathblane, Craigend Castle*. Wet, cold and backward weather.

XVI. *Coupar Angus Station*. Mean temp. $57^{\circ}\cdot1$ or $2^{\circ}\cdot5$ above the average, due to a period of six days, 10th to 15th, of abnormal heat both day and night, with TSS almost daily. R ·88 in. above the average owing to which, and the high temp., crops of every kind were exuberant in growth.

XIX. *Bettyhill*. The first half was warm, bright and dry, the second thundery with frequent heavy showers.—*Watten, H.R.S.* The first half was cloudy, dry, mild and fine; the latter wet, dull, foggy and mild. A great absence of sun, but fine growing weather.

XX. *Dunmanway, Coolkelure*. Very wet; probably the wettest June ever recorded here. Temp. considerably below the average.—*Cork, Wellesley Terrace*. R 1·09 in. above the average; number of rainy days twenty-two, being the greatest ever recorded here in June. Mean temp. $1^{\circ}\cdot8$ less than the average.—*Cahir, Duneske*. Comparatively wet and sunless. Crops promised well through the country, straw in grain crops being specially long; but sunshine was badly wanted for

crops as well as for fruit.—*Derry Castle*. R 84·7 per cent., and rainy days 50 per cent., above the average of ten years. The wettest June since 1888 when 5·72 in. of R fell. The opening days were very fine, but from the 5th to the end there were only two rainless days.

XXI. *Templeudigan, Ballindoney*. Very wet; R fell on twenty-three days.—*Kilkenny, Sion Villa*. A record month for R. Storms on 7th, 10th and 29th; TSS on 20th and 22nd with fierce R and heavy squalls. Despite the storms there was much fine weather throughout the month, especially in the early part of the day.—*Rathmines, Leinster Road*. Densely overcast except in the first week, with almost continuous showers. R fell on every day after 15th.

XXII. *Westport, Murrisk Abbey*. Variable temp. and heavy R caused crops in the cold mountainous districts to suffer.—*Markree Observatory*. Very wet, but the first week was dry and fine.

XXIII. *Enniskillen*. The first week was lovely bright warm weather. After this it was more or less wet. There was good growth and nearly all crops were looking well.—*Belfast, Springfield*. Unusually wet. The damp weather and such a supply of R were rather an unlooked for boon. T and L on three days.—*Lough Swilly, Carrablagh*. R 5·10 in. Except in 1897 no other June since 1888 has had a fall of five inches.

JULY.*

I. *Kensington, Edith Road*. The hottest month recorded in seventeen years; mean temp. 68°·7, or 5°·9 above the average. Four days had max. temps. above 90°, the highest being 92°·4.—*Muswell Hill*. R 1·19 in., or nearly 46 per cent., less than the average of twenty-eight years. R was recorded on the first three days; then followed a period of twenty-three days which would have been an absolute drought but for ·03 in. on 16th. On 27th ·71 in. fell as the result of a TS.—*Finchley, Etchingham Park*. R 1·16 in., or nearly 45 per cent., less than the average of fourteen years. R was recorded on the first four days; then not until a heavy TS on 27th.

II. *Haslemere, Hazelhurst*. A sunny month. Partial drought for twenty-three days, 4th—26th, yielding 0·07 in. of R. TSS and unsettled weather towards the end. Mean temp. 64°, max. 87°.—*Abinger Hall*. Hot and dry except at beginning and end. Very hot days on 16th, 19th and 20th, and nights on 19th and 22nd.—

* See also *Met. Mag.*, August, 1900, p. 98.

Wallington. R 2·16 in., and rainy days eight, below the average. Extraordinarily hot. The mean dry bulb temp., the absolute and mean shade max., the absolute and mean bright bulb temp. in vacuo, and the mean temp., were all the highest on record. R was small, and sunshine the highest except 1887. Crops of all kinds did well. Mean temp. $66^{\circ}4$, or $4^{\circ}9$ above the average. Duration of sunshine 290·9 hours, being 100·5 hours above the average and 59 per cent. of the possible amount.—*Denmark Hill*. There were twenty-three consecutive days without R and with abnormal heat.—*Birchington, Thor*. One of the hottest months on record. Absolute drought for twenty-three days ending on 26th.—*Sheppey, Leysdown*. Exceedingly fine and dry. The heat from 8th to 27th, when there was a sharp TS, was excessive.—*Crouborough*. R 2·13 in. below the average. The first week was cold with cold winds. From 8th to 26th very warm; for several days the heat was intense. On 19th the shade temp. was $87^{\circ}5$, and on 22nd the min. was $64^{\circ}2$. After a TS on 27th it became cooler.—*Bournemouth, Kempsey*. Dry, and after the 10th rather hot, especially at night. The max. temp. twice exceeded 80° , and the min. was above 60° on six nights, four of which were consecutive.—*Christchurch, Winkton Lodge*. Bright and hot, with R on only six days. TSS on 20th and 27th.—*West Dean*. R below the average. Very unsettled, with a period of great heat from 11th to 27th. The max. temp. of 89° on 25th was the highest ever registered here. The first few days were very dull, rainy and cold. Wind generally from S.W. or S.E.

III. *Slough, Upton*. Less than a quarter of the usual R. More than half the days had max. temp. over 80° in the shade. Duration of sunshine 290·1 hours; no sunless days.—*Oxford, St. Giles*. Mean temp. $4^{\circ}9$ above the average of thirteen years. On fifteen days the temp. reached 80° .—*Castle Ashby*. Temp. very high, especially at night. Only two nights below 50° , the highest min. being 64° .—*Wisbech, Elm*. A remarkable month. Very cold for the first nine days, then a sudden change to extraordinary and continuous heat until 30th. Mean temp. $66^{\circ}1$.

IV. *Billericay, Burghstead Lodge*. R 1·40 in. below the average, none falling between 7th and 26th.—*Great Leighs*. A very bad harvest on light land owing to forcing heat in this month.—*Sudbury, Friars Street*. Cool and unsettled at the commencement; fine and hot after the 6th, with some very high temperatures.—*Ipswich, Bishop's Hill*. R 1·44 in. less than the average. Temp. variable, with very great heat from 15th to 25th, frequently above 80° , and 88° on 25th.

V. *Tavistock, Whitchurch*. Dry and warm. The mean daily temp. varied from $53^{\circ}\cdot7$ on 3rd, to $70^{\circ}\cdot2$ on 11th. The shade max. rose above 70° on fourteen days, and above 80° on one day. Prevailing winds N.W. and S.W. Fog on five days. A good hay crop was secured by the 27th.—*Wellington, The Avenue*. R about $\cdot75$ in. below the average. Fine and dry, and after the first eight or nine days very warm. On seven days the temp. reached or exceeded 80° . A large amount of bright sunshine.—*Long Ashton Estate Office*. Dry, with R on seven days only.

VI. *Clifton, Pembroke Road*. R $2\cdot12$ in. below the average. Very fine and hot, resembling July, 1899.—*Cirencester, Further Barton*. The first week was cold, windy and stormy. Heat, with S.W. wind and distant T on 10th, 11th and 12th. Intense heat began on 15th, continuing without intermission till 27th, when TSS brought more moderate temp.—*Ross, The Graig*. Very hot; eleven days with temp. of 80° , or above. Almost all the R fell in heavy showers on three days, 12th, 17th and 31st. The crops, which were backward at the commencement, were rapidly forced to maturity at the close.—*Church Stretton*. Generally hot and dry. Great heat from 10th to 27th, when thirteen days drought was broken by a heavy TS. Temp. 80° , or above, on four days; T on seven days, L on three, and H on two.

VII. *Market Overton*. Heat began to increase early in the month, and was excessive from the 11th for nearly three weeks. A good deal of T.—*Worksop, Hodsock Priory*. Very hot and bright. Showery during the first week and the last few days, the rest of the time remarkably fine, except for an occasional TS. The mean and max. temp. ($87^{\circ}\cdot3$) are the highest recorded here in July since 1876.

VIII. *Chelford, Astle Hall*. Hot, with TSS on five days.—*Bolton, The Park*. R $1\cdot55$ in. below the average. The first eight days were changeable, with temp. below the average, but from the 9th to the close was more settled, with high temp., and gentle to light breezes, chiefly westerly. Mean temp. $60^{\circ}\cdot6$, or $2^{\circ}\cdot9$ above the average, and a record for July, the nearest being $59^{\circ}\cdot7$ in 1899. Duration of sunshine 177 hours, or twenty-seven hours above the average. Slight T on four days, and TSS on three days.—*Southport, Hesketh Park*. R $2\cdot82$ in. below the average. The warmest July since the commencement of the record in 1871. Very sunny; and extremely dry. Mean temp. $3^{\circ}\cdot2$ above the average. On one day the temp. exceeded 80° . Total sunshine twenty-eight hours above the average. T on 29th.—*Broughton-in-Furness*. A good deal of showery

weather, but not much R. The greater proportion of R fell between 8 p.m. and 8 a.m., so that it was dry on a great number of days, though very dull and cloudy. A good deal of T in the neighbourhood.—*Seathwaite Vicarage*. Warm and summer-like after the first week, with a succession of light rains.

IX. *Langsett Moor, Upper Midhope*. Nearly 80 per cent. of the R fell during TSS on five days. Great heat from 10th to 27th.—*Goldsborough Hall*. Very hot, the max. temp. reaching 80° or above on 11th, 12th, 19th and 24th. Some very heavy TSS.—*Thixendale*. Very hot with oppressive nights. TSS on two days.

XI. *Llanfrechfa Grange*. Unusually fine and warm. Max. temp. above 80° on eight days. A good crop of hay, very well harvested.—*Douglas, Woodville*. Fine on the whole, with R below the average. The weather was "coarse," somewhat cold and windy to 15th, warmer and more summerlike thereafter till 27th; the temp., however, hardly exceeded 70°. Gales or strong winds on six days, TSS on two and sea fog on three.

XII. *Moniaive, Maxwellton House*. Fine and warm. Hot, but not excessively so, from 10th to 28th.—*Lilliesleaf, Riddell*. Wet and most unsettled. R 1·38 in. above the average of many years, no similar fall since 1891. An exceedingly great number of TSS and much L. Agriculturally an excellent month, with good and heavy crops.

XV. *Inveraray, Newtown*. Very wet, there being seldom twenty-four consecutive hours of good weather, and no heat.

XVI. *Dollar*. Cold and sunless all through.—*Coupar Angus Station*. R ·81 in. above the average. Mean temp. 60°·4, being the highest in twenty years, but there was an absence of bright sunny days, and no extremely high day temp., although often very high night temp.

XVIII. *Loch Shiel, Glenaladale*. Wet and dull. Mean temp. 59°·5.

XIX. *Bettyhill*. Rainy weather on the whole, with occasional heavy falls and little sunshine.—*Watten H.R.S.* Cloudy, wet and mild, with very little sunshine. Frequent TSS.

XX. *Dunmanway, Coolkelure*. Very warm with a good deal of T. The nights were frequently nearly as warm as the days.—*Cork, Wellesley Terrace*. R 1·20 in. less than the average. The first half was cool both in the morning and at noon, but the latter half was warm so that the general average of 60° was fully maintained.

XXI. *Templeudigan, Ballindoney*. Severe TSS on 2nd, 19th and 27th.—*Kilkenny, Sion Villa*. Very variable, but with much fine

weather. T and L from 11 p.m. on 27th to 3 a.m. on 28th. Ormonde's Castle overlooking the river Nore was struck by L and one of the towers damaged.—*Rathmines, Leinster Road*. Although the warmest July since 1887, it was not fine or settled. T on 2nd, 3rd and 29th.

XXII. *Westport, Murrisk Abbey*. The heat was much tempered by cool breezes from the sea. Vegetation very forward and disease in crops so far unknown.—*Markree Observatory*. Fairly dry but with deficient sunshine.

XXIII. *Belfast, Springfield*. Very dry and temperate till 27th when 1·77 in. of R fell.

AUGUST.*

I. *Kensington, Edith Road*. Wet and of average temperature. The first ten days were especially wet and stormy.—*Finchley, Etchingham Park*. R ·38 in., or 15 per cent. above the average for fourteen years. R was recorded on eight of the first ten days, and after nine dry days, on six of the remaining twelve days.

II. *Abinger Hall*. Very changeable, and rather trying for farmers. T on three days, but not near.—*Wallington*. Wet and cool. Only two wetter Augusts have occurred since 1881. R 1·20 in. above, and rainy days two below, the average. The wet weather was detrimental to the corn, but most beneficial to root crops and market garden produce. Mean temp. 61°·4, or 0°·1 below the average. Duration of sunshine 187·7 hours, being 6·2 hours below the average, and 42 per cent. of the possible amount.—*Sheppey, Leysdown*. No great fall of R, and an entire absence of T. The first week and last few days rather unsettled, with strong gales and showers, but nearly three weeks of exceptionally fine weather were experienced.—*Crowborough*. R ·52 in. below the average. Cold, showery and altogether inclement from 1st to 10th, with strong gales on 3rd and 6th. Brighter and warmer from 11th to 21st, when, after R, it became cooler, and the month closed with fine pleasant weather.

III. *Highmore Vicarage*. Very unsettled and wet, with TSS.—*Abingdon, Culham*. Rough and unsettled for the first ten days; fairly fine and warm afterwards.—*Blisworth, Grafton House*. Very wet and cold from 1st to 10th, then fine and hot till 21st; after that heavy R and cold, delaying harvest work. R 4·02 in., being 1·63 in. above the average of sixteen years, and the heaviest since 1888, when 4·10 in.

* See also *Met. Mag.*, September, 1900, p. 113.

fell.—*Pitsford, Sedgebrook*. Wet, windy and dull, for the most part, with a little hot weather from 14th to 20th. Mean temp. $60^{\circ}\cdot2$. R 1.48 in. above the average of ten years.—*Wisbech, Elm*. Very unpleasant, cold and wet. Bad for the garden. On two days only did the temp. touch 80° , and on the night of the 10th the grass min. was $36^{\circ}\cdot2$. Mean temp. $60^{\circ}\cdot7$.

IV. *Colchester, Lexden*. Generally cool and unsettled, except for a bright spell from 11th to 22nd, with E. and N. wind. A gale on 3rd did much damage to trees.—*Sudbury, Friars Street*. Unsettled at the commencement and end. Gale on night of 3rd.—*Ipswich, Bishop's Hill*. R .70 in. above the average. Great variations in temp. Several heavy TSS, with R and H.

V. *Tavistock, Whitchurch*. Variable and rather cold, with R about average. Mean temp. varied from $69^{\circ}\cdot3$ on 14th to $53^{\circ}\cdot8$ on 27th. Max. 70° , or over, on eight days, and 80° on one day. Fog on seven days.—*Okehampton, Oaklands*. Very variable weather.—*Wellington, The Avenue*. Generally changeable, with exceptionally strong winds at times. R about .50 in. below the normal, but falling on eighteen days.—*North Cadbury Rectory*. The first ten days were cool and showery, with mild nights, in contrast to the three weeks preceding. Warm and dry till 20th, with mild nights, then cool days, but nights not cold, till 29th. The last two days were warm again. An unusual number of heavy winds, that on the 3rd being by far the worst. Max. temp. only four times up to 80° , and on eleven days below 70° .

VI. *Clifton, Pembroke Road*. Very rainy till 10th, with S.E. to W. gales of unusual violence on 3rd and 6th. Then a fine hot period till 21st, when it broke up with cyclonic disturbances from the Atlantic.—*Ross, The Graig*. R, about 25 per cent. more than the average, fell in two periods, 2nd to 9th and 21st to 25th; otherwise there was much fine weather. Although on the whole the temp. was scarcely below the average, the prevalent N. and N.E. winds made it seem ungenial and cold. T on many days, but few really severe storms. Temp. 80° or above on two days, against fifteen in 1899. Harvest finished for the most part during the last six fine days.—*Church Stretton*. The first nine days were extremely wet, with much wind and 3.24 in. of R. In the fortnight ending 9th the R was 5.18 in. Hot and sunny from 11th to 19th. Showery and unsettled till 26th; then fine.

VII. *Horncastle, Hemingby*. The wettest August since 1881.—*Workshop, Hodsock Priory*. The largest R for August since 1881. No

hot days ; the first ten days were wet and stormy, the next ten days were fine, and after that showery.

VIII. *Chelford, Astle Hall*. Wet ; several TSS.—*Bolton, The Park*. R 2·30 in. above the average. Weather disappointing to agriculturalists. Between the 1st and 11th it rained every day, with a total of 4·89 in., the 3rd contributing 1·19 in. and the 6th 1·83 in. ; much injury was done to corn crops. Fine and bright from 12th to 18th ; then four days of changeable weather ; afterwards settled till the evening of 31st. Mean temp. $56^{\circ}\cdot7$, or $0^{\circ}\cdot6$ below the average. Duration of sunshine 129 hours on 24 days, or 14 hours in excess of the average.—*Southport, Hesketh Park*. Abnormally wet during the first ten days. Mean temp. $0^{\circ}\cdot4$ below the average. Total sunshine 29 hours above the average. R 2·76 in. above the average. A strong gale from N.N.W. on 3rd, and less severe gales on five days. T on 3rd, and TSS on four days. H on 22nd.—*Broughton-in-Furness*. The first part was showery, with a good deal of bright sunshine. Fine from 9th to 18th, though very thick and hazy ; with little sunshine but some bright days. Heavy, thundery weather followed, and some heavy TSS.—*Blundellsands, Park Corner*. From July 31st to August 6th, 4·38 in. of R fell, which exceeds that of any other consecutive seven days since the record started in 1876.

IX. *Langsett Moor, Upper Midhope*. More than seventy per cent. of the R fell during TSS on five days ; 1·79 in. fell on 3rd, and 1·72 in. on 6th.—*Goldsborough Hall*. Very wet and cold till the 11th. Fine generally from 11th to 20th ; heavy R on 21st and 23rd, and afterwards dry except for heavy showers on the evening of 31st.—*Thixendale*. Very wet. TSS on three days.—*Middlesbrough, Ormesby*. Cool and very wet. Average R for the first eleven days $\cdot35$ in., 2·28 in. falling on 3rd.

X. *Newcastle, Clifton Road*. The wettest August since 1890.—*Keswick, Shu-le-crow*. Very cold and stormy.—*Brampton, Denton House*. Very wet, with 6·22 in. R. A bad month for hay-making ; much spoiled.

XI. *Brecknock, Llandefaelog-fach*. Cold and wet for the first nine days ; then nine rainless days, followed by cold, dismal weather, until the last week, when there was a change to genial warmth and sunshine.—*Llwydiarth Esgob*. In the first week 4·22 in. of R fell.—*Douglas, Woodville*. Unusually wet and stormy, R 6·66 in., the largest fall recorded in twenty-six years, except 7·56 in. in 1891. Two very wet weeks, 1st to 7th, with 3·88 in., and 18th to 24th, with 1·66 in. ;

and two dry weeks, the 8th to 18th being warm and summer-like, while from 24th to 31st there were strong cold N.E. winds. High winds on eleven days; mist or fog on two. No less than five days of almost continuous R.

XII. *Lilliesleaf, Riddell*. Very wet and abnormal R, just double the average. Corn, however, was very little laid or damaged. Remarkable for the great number of TSS.

XV. *Strathblane, Craigend Castle*. Very fine and hot from 12th to 18th, and from 24th to 30th. Otherwise wet.

XVI. *Dollar*. Cold and sunless.—*Coupar Angus Station*. R 4·28 in., or 1·10 in. above the average. Thirteen rainy days, with floods on 21st and 22nd. There were two periods of good harvest weather. Mean temp. 55°·3, or 0°·4 below the average.

XIX. *Bettyhill*. Fine, with occasional heavy falls of R.

XX. *Dunmanway, Coolkelure*. Wet and warm, and a good deal of T.—*Derry Castle*. R 36·8 per cent. above, but rainy days 28·6 per cent. below, the average of ten years. Although the R of this month has only been exceeded thrice in twenty-two years, it was, on the whole, favourable for harvesting. Of the total, 8·40 in., 7·95 in. fell on nine days, and there were intervals of splendid harvesting weather, from 10th to 19th, and from 25th to 30th.—*Killadysert, Paradise Hill*. The R of the first nine days amounted to 5·66 in. The total, including four falls of more than an inch in twenty-four hours, was 8·25 in., and the largest in any month in six years.—*Miltown Malbay*. Very wet; the first eight days gave about five inches of R, and disastrous floods occurred. This is the only month in a period of close on thirty years in which there were four falls of over an inch.

XXI. *Templeudigan, Ballindoney*. Very wet from 2nd to 9th, much damage being done by R. Fine and warm from 10th to 18th.—*Kilkenny, Sion Villa*. August maintained its reputation as a wet month, though there were some lovely days. S on the 3rd. Morning fogs from 11th to 17th. T and L on 22nd.—*Killiney, Cloneevin*. The wettest month of the year, with 6·06 in. of R on seventeen days.—*Athlone, Twyford*. R 7·38 in. In a record of twenty-five years there have only been nine months in which 7·00 in., or more, has fallen, and only four with more than August, 1900.

XXII. *Markree Observatory*. Very wet in the early part, and from 21st to 23rd. Dry intervals from 10th to 15th, and 23rd to 29th. Very hot about the middle, the max. temp. being 80°·3 on 15th, the highest for many years.

XXIII. *Belfast, Springfield.* R 5·59 in. The wettest August since 1895, and the wettest month since June, 1897, when 5·99 in. fell. Crops, especially hay, were very much retarded.

SEPTEMBER.

I. *Kensington, Edith Road.* Fine, warm, and very dry.—*Finchley, Etchingham Park.* Dry; R being recorded on only seven days, and being 1·14 in., or 57 per cent., less than the average of fourteen years. A drought of twenty days from 2nd to 21st was prevented by ·03 in. on 16th. Quite seven-eighths of the total fell during the five days 26th to 30th.

II. *Haslemere, Hazelhurst.*—Fine and sunny. Seven rainy days. Absolute drought for fourteen days from 2nd to 15th, and partial drought for twenty-three days (1st to 23rd), with 0·07 in. of R. Gales from S.W. at end of month.—*Redhill, Oxford Road.* R 1·47 in. below the average of thirty-three years. Mean temp. 55°·8, or 0°·6 below the average of twenty years.—*Frimley Green, Ridgemount.* A great deal of fine weather from 1st to 23rd, due to the prevalence of easterly and north-easterly winds. The heat was never excessive; the nights were cool and the dews heavy.—*Wallington.* Dry, with warm days and somewhat cold nights. The amount of sunshine recorded has only been exceeded in 1895 and 1898, and only two Septembers (1890 and 1895) have had a smaller amount of cloud, whilst the wind force was the smallest on record and was only equalled in 1895. As a result, it was healthy, and crops did well. Mean temp. 58°·0 or 0°·3 above the average. R ·43 in., and rainy days three, below the average. Duration of sunshine 194·1 hours, being 33·9 hours above the average, and 51 per cent. of the possible.—*Birchington, Thor.* Exceptionally fine and dry, with fifteen days of absolute drought.—*Lewes, Saxonbury.* Fine and dry, with no R from 2nd to 24th except ·01 in. on 16th. Showery afterwards.—*Crowborough.* R 1·55 in. below the average of twenty-seven years. The month opened showery and cold, but from 3rd to 23rd was beautiful, dry and warm. The last week was wet and colder.—*Christchurch, Winkton Lodge.* Unusually dry; R only ·70 in. Absolute drought for eighteen days. Atmosphere remarkably clear. Venus could be followed by the naked eye till some time past noon.—*West Dean.* Very quiet and dry, with a great deal of fog. Ground frosts occurred on ten days. The max. temp. was not high, exceeding 70° on only nine days. R on only five days; the 30th was

the one really wet day. A splendid fruit season. Potato disease was very rife.

III. *Kensworth [Dunstable]*. Remarkably fine; the weather was only equalled by that of September, 1890, when the R was $\cdot 61$ in.—*Abingdon, Culham*. Very dry, being the driest September for fifty years, except 1865, when the R was $\cdot 19$ in. Other dry Septembers were 1851, $\cdot 40$ in.; 1854, $\cdot 40$ in.; and 1898, $\cdot 48$ in.—*Blisworth, Grafton House*. Very fine and dry. R $\cdot 56$ in., being $1\cdot 51$ in. below the average of seventeen years, and the smallest since the commencement of the record.—*Pitsford, Sedgebrook*. R $2\cdot 05$ in. below the average of ten years. A very fine and beautiful month, with much bright sunshine and light winds. Mean temp. $57^{\circ}1$.—*Wisbech, Elm*. Very still and dry, with a great quantity of sunshine but little or no excessive heat. Mean temp. $57^{\circ}5$. During the first half there was a preponderance of N. wind. On the whole the latter part was distinctly warmer than the former.

IV. *Colchester, Lexden*. Bright, but cool.—*Ipswich, Bishop's Hill*. Dry and fine, with mist and fog in the mornings. R $1\cdot 10$ in. below the average.

V. *Bishop's Cannings*. R $1\cdot 43$ in., and rainy days five, below the average. The water in a deep chalk well was 4 ft. lower than in September, 1899.—*Tavistock, Whitchurch*. Dry, fine, and rather cold. Only $\cdot 01$ in. of R fell from 3rd to 17th. The mean temp. varied from $60^{\circ}8$ on 16th to $49^{\circ}9$ on 30th. A good corn harvest was well secured by the 15th. Fog on seven days.—*Okehampton, Oaklands*. Fair and genial.—*Barnstaple Athenæum*. R $2\cdot 25$ in. below the average of thirty years. Mean temp. $57^{\circ}5$, or $0^{\circ}8$ below the average.—*Wellington, The Avenue*. Very fine and bright generally, with a few rainy days. Total R about an inch-and-a-half below the average.—*North Cadbury*. The calmest and least cloudy month of the year so far. Very small variation in the day temp.; twenty-two days with max. temp. of 70° or more. Only one heavy wind, on 26th. There were frequent threatenings of R, but not a drop running off the slate roofs during the absolute drought from 2nd to 23rd.—*Long Ashton Estate Office*. Dry, with R on five days only; the lightest September fall on record.

VI. *Clifton, Pembroke Road*. Fine and dry, with the exception of a few showers, till 26th when depressions from the Atlantic began to break up the anticyclonic type which had prevailed all the month. The driest September in forty-five years, with the exception of 1865

when only .05 in. of R fell. In no other year has there been less than an inch in this month.—*Cheltenham, Southam Villa*. Beautifully fine, the nights generally cloudless. The smallest R for at least thirty-four years.—*Ross, The Graig*. Very fine with much sunshine. The driest September since, and including, 1818, except 1865, when only .07 in. fell on two days. There were no hot days and no frosty nights. Tender plants uninjured; magnificent weather for harvest and hop-picking. Autumn flowers in full perfection, but root crops suffered from drought at the close.—*Church Stretton*. Remarkably dry and warm, the warmth being very uniform, with no excessively high temps.

VII. *Burton on Stather Vicarage*. Very dry, the R being 1.58 in. below the average of forty years.—*Market Overton*. Exceptionally dry. Max. temp. generally over 63°.

VIII. *Chelford, Astle Hall*. Fine, dry and hot.—*Bolton, The Park*. R 2.05 in. below the average. During the first three weeks the weather was influenced by an anticyclone over W. Europe, during which time only .17 in. of R fell; but there were some heavy dews, and the daily range of temp. was greater than usual. The fine weather enabled farmers to complete harvesting. Mean temp. 54°·3 or 0°·6 below the average. Duration of sunshine 113 hours on twenty-six days, being twenty-six hours above the average. Fog on 7th and 17th.—*Southport, Hesketh Park*. The sunniest September since observations of bright sunshine commenced in 1891. Mean temp. 1°·3 above the average. Total sunshine forty-five hours above the average. R 1.64 in. below the average. Gales on three days. Distant L on 16th.—*Broughton-in-Furness*. The first fortnight was most brilliant and sunny, the little R falling in the night. The third week was not quite so sunny, the R again falling mostly during the night. The last week was wild and stormy for the most part.

IX. *Langsett Moor, Upper Midhope*. Very fine and dry. Only .18 in. of R fell between August 27th and September 24th. Frost on grass on 16 nights.—*Hebden Bridge, Falling Royd*. Dry but with little sunshine or wind.—*Goldsborough Hall*. Very fine, warm and dry, especially the first two weeks.—*Middlesbrough, Ormesby*. Dry, changeable and cool.

X. *Sunderland, West Hendon House*. The driest month of the year.—*Keswick, Shu-le-crow*. Of the 5.35 in. of R, no less than 4.84 in. fell in the last eleven days.—*Brampton, Denton House*. Fine up to the 20th, so that most of the corn was well stored.

XI. *Llanvihangel Court*. Very dry. Rivers and streams low. The

want of water was severely felt in this hilly country. Winds light, and chiefly northerly.—*Brecknock, Llandefaelog-fach*. The first three weeks were dry, bright and warm, the last week was wet and cold with high winds.—*Douglas, Woodville*. The first half was beautifully fine, typical harvest weather, with abundant sunshine. Fogs occurred on five days. A good deal of R fell after the 16th but the total was much below the average.

XII. *Moniaive, Maxwellton House*. Very fine and warm to the 23rd. Harvest all secured.—*Lilliesleaf, Riddell*. Fine, with high temp. about the middle, and mild throughout. R a little below the average. This enabled the corn to be got in very well.

XV. *Strathblane, Craighend Castle*. The first week was mild and showery. Fine from 9th to 17th ; wet and stormy from 23rd.

XVIII. *Loch Shiel, Glenaladale*. Wet. Mean temp. 53°·6.

XIX. *Bettyhill*. Exceptionally fine, with brilliant sunshine from 10th to 19th. The early and latter parts of the month were wet and stormy, retarding harvest operations.—*Watten, H.R.S.* The first three weeks were dry and fine, the last week wet, cold, stormy and changeable.

XX. *Cork, Wellesley Terrace*. R less than one-third of the average, being the smallest for September since 1865, when only ·51 in. fell. Mean temp. 1°·0 below the average.—*Cahir, Duneske*. Average amount of cloud at 9 a.m., 5·7. Duration of sunshine 164 hours.—*Derry Castle*. R 42 per cent. below, and rainy days 15·8 per cent. fewer than, the average. Splendid harvest weather from 1st to 19th ; but from 20th to the end, showery and very damp.—*Miltown Malbay*. The first half was beautifully fine, calm and sunny, suitable for harvesting. In the second half there was much R, which fell almost daily to the end.

XXI. *Templeudigan, Ballindoney*. Very fine and favourable for harvesting operations.—*Kilkenny, Sion Villa*. A lovely month throughout. Morning fogs from 1st to 16th, thick fog on 15th. Light frosts on 4th and 5th.—*Killiney, Cloneevin*. The driest month of the year, with ·70 in. of R on eight days. Absolute drought from 1st to 15th.—*Rathmines, Leinster Road*. Absolute drought from 1st to 15th, then cloudy and changeable.

XXII. *Westport, Murrisk Abbey*. Great heat for the season. Agricultural pursuits were attended with unparalleled success, the potato crop exceeding all records.

XXIII. *Belfast, Springfield*. Very suitable for harvesting here,

as till the 25th the R was very light. In fact it was a month to be hoped for after the damp August.

OCTOBER.

I. *Kensington, Edith Road*. Rather dry and very warm, with higher max. ($74^{\circ}2$) than any recorded since 1886.—*Muswell Hill*. R $\cdot 82$ in., or nearly 27 per cent., less than the average of 28 years. Out of the first twenty-two days, R fell on only six, to the amount of $\cdot 67$ in. ; but during the last nine days, R fell on all but one, amounting to $1\cdot 57$ in.

II. *Haslemere, Hazelhurst*.—Sunshine deficient ; five sunless days. Rain on eighteen days. Mean temp. 49° , max. 68° , min in shade 29° , min. on grass below 32° on six nights. An abundant crop of fruit ; autumn leaves long in colouring, and remaining very late on trees.—*Abinger Hall*. Warm and genial throughout. Only two frosts, one of sufficient severity to destroy the dahlias, which kept in good condition well into the middle of the month.—*Wallington*. Warm, and until the last ten days, very dry. As showing the warmth of the month and the absence of frost, dahlias, roses, geraniums, scarlet runners and artichokes were in flower at the end. Mean temp. $51^{\circ}3$, or $2^{\circ}3$ above the average. R $1\cdot 34$ in. below, and rainy days one above, the average. Duration of sunshine $114\cdot 8$ hours, being $13\cdot 5$ hours above the average, and 34 per cent. of the possible amount.—*Sheppey, Leysdown*. The first half was fine. Strong gale on 14th and 15th. The last week was very showery and unsettled.—*Crowborough*. October opened cold and wet, but was summer-like from 7th to 12th. The second half varied ; there were spells of hot and cold days and nights, with R. The month closed with warm weather, exceptional for so late in the autumn.—*West Dean*. Variable, with about average temp. Dry till near the end, when a period of excessive R occurred, $1\cdot 64$ in. falling in the last three days. The wind was mostly from the W. or S.W. ; there were no very severe gales. The fall of the leaf was slow and gradual, and very few trees were stripped at the end. Fog was very prevalent, but there was a large amount of sunshine.

III. *Highmore Vicarage*. Mild, with frequent R.—*Abingdon, Culham*. Wet at the beginning and end, but a fine open month.—*Pitsford, Sedgbrook*. The latter part was cold and wet. R $1\cdot 20$ in. below the average of ten years. Mean temp. $49^{\circ}0$.—*Wisbech, Elm*. Very wet, though without a large total R. On the whole mild, the max. temp.

rising above 71° on 8th and 9th. No frost recorded in the screen, but min. on grass $23^{\circ}\cdot5$ on 15th. Mean temp. $50^{\circ}\cdot3$.

IV. *Billericay, Burghstead Lodge*. R 1·00 in. below the average, but very frequent.—*Ipswich, Bishop's Hill*. Fine; very dry till the 25th. Much fog and mist. R 1·88 in., or ·75 in. below the average.—*Rendlesham Hall*. Very mild, with strong winds from S.W. to N.W. Wet at the end.

V. *Bishops Cannings*. R ·58 in. below, and rainy days two above, the average.—*Tavistock, Whitchurch*. Showery, cloudy and rather cold, with R below the average. The mean temp. varied from $58^{\circ}\cdot2$ on 7th to $43^{\circ}\cdot4$ on 22nd. Prevailing wind S.W.; fog on four days.—*Okehampton, Oaklands*. Mild and wet.—*Wellington, The Avenue*. R about ·25 in. below the normal, but it fell on a large number of days. Generally fine and mild, with a large amount of sunshine. The last week stormy, with much R.

VI. *Clifton, Pembroke Road*. The third week was fine and cold, under the influence of an anticyclone. The last week was very wet. R ·22 in. above the average.—*Cirencester, Further Barton*. R slightly deficient; the drought ended only in the last week.—*Ross, The Graig*. R about one-third above the average, but it nearly all fell during the first and last weeks. From 7th to 24th was almost continuously fine. Except two or three white frosts of sufficient severity to affect vegetation, there was little cold weather, and the flowers continued in almost summer beauty.

VII. *Worksop, Hodsock Priory*. Mild, with normal R and sunshine.

VIII. *Bolton, The Park*. Changeable throughout, but mild with heavy R and an almost entire absence of fog, due to the wind force being greater than usual. Mean temp. $47^{\circ}\cdot8$. R 2·37 in. above the average, and the greatest amount which has fallen in October since the record began. Duration of sunshine 62 hours, or about the average.—*Southport, Hesketh Park*. R ·60 in. above the average. Rainy days unusually numerous. Mild, windy and broken, with a lower mean daily range of temp. than in any previous October since the record commenced in 1871. Mean temp. $2^{\circ}\cdot4$ above the average. Frost in the shade on one day, and on grass on three days. Total sunshine seven hours below the average. Gales on ten days; TS on 5th, and L on 26th. H on three days. Hoar frost on one day.—*Heysham House*. The R was almost unprecedented. On the 2nd 1·07 in. was recorded, and on the 6th 2·15 in. The total was 9·02 in., which has been exceeded in October only in 1877, when 9·06 in. fell. There was not a single day without R.

IX. *Langsett Moor, Upper Midhope.* Mild, with no ground frost.—*Goldsborough Hall.* Very unsettled, with R on twenty-one days.

X. *Eastgate, All Saints' Vicarage.* Very wet; only six days without R. Gales and floods, especially on 6th and 26th.—*Sunderland, West Hendon House.* The wettest month experienced since 1859, except November, 1878. Solar haloes observed on thirteen occasions.—*Newcastle, Clifton Road.* The wettest October since 1872.

XI. *Llanvihangel Court.* A very fine month for farmers. Practically dry from 6th to 24th. Wind mainly N.W. and W.

XII. *Moniaive, Maxwellton House.* The first half was wet and the second fine.—*Lilliesleaf, Riddell.* R 1·36 in. above the average, the highest since 1892. So variable a month has seldom been seen. The days were successively clear, foggy, calm, rough and snowy, but the S melted almost as it fell.

XIV. *Girvan, Pinmore.* The heaviest R in twenty-five years with one exception.—*Dalry, Blair.* Only nine days on which R did not fall; and only four dry days from September 17th to October 17th. A good quantity of the oat crop was still standing at the end, and some of it was secured in very poor condition.

XV. *Strathblane, Craigend Castle.* Wet throughout, with slight frosts.

XVI. *Coupar Angus Station.* Mean temp. 45°·1, or 0°·6 above the average. R 7·3 in. above the average, falling on twelve days, being very heavy on 4th. This was the eighth month with R above the average.

XVIII. *Loch Shiel, Glenaladale.* Rather cool and very wet. A cold snap about the middle. Frost on grass on a few mornings. Mean temp. 46°·3.

XIX. *Watten, H.R.S.* The first half was wet, windy and cold; the latter half wet, dull and close.

XX. *Cork, Wellesley Terrace.* R 1·93 in. over the average; the fall of 1·14 in. in eight hours on 3rd was the greatest since December 28th, 1899. The first frost was on the 11th.—*Derry Castle.* The wettest October in twenty-two years, with only six rainless days. R 76·5 per cent., and rainy days 31·5 per cent., above the average.—*Nenagh, Castle Lough.* The wettest October yet recorded.

XXI. *Kilkenny, Sion Villa.* Very damp on the whole, although there was a fine interval from 10th to 20th. Morning frosts on three occasions, and early fogs on three days. Storms and heavy squalls from 3rd to 8th, and from 26th to 31st.—*Ballybrack, Streamville.*

R .43 in. under the average of twenty years. Mean temp. $48^{\circ}8$.—*Athlone, Twyford*. R 6.55 in., the heaviest since 1875. Only three times has the R for October been over five inches.

XXII. *Achill, Coraun House*. Very wet, but mild and quiet.—*Markree Observatory*. R above the average, and duration of sunshine considerably below. There was an interval of dry but gloomy weather from 18th to 22nd; the remainder was rainy. Not quite so windy as the average, but rough on several days, notably 7th, 14th and 16th.

XXIII. *Belfast, Springfield*. The wettest October since 1895. R almost incessant.

NOVEMBER.

I. *Kensington, Edith Road*. Very warm. A month of small rainfall, but much drizzling rain falling on many days.—*Finchley, Etchingham Park*. R .34 in., or nearly 13 per cent., less than the average of fourteen years. Though the number of rainy days was large, on twelve the fall did not exceed .10 in.

II. *Haslemere, Hazelhurst*. Damp and dull, with a little group of sunny days for St. Martin's summer. R on twenty-five days. Mean temp. 44° , max. 58° , min. in shade 30° , on grass 25° . Min. below 32° , on four nights in shade, ten on grass. Gales on 8th and 15th to 19th.—*Abinger Hall*. Mild and open throughout, with an almost entire absence of fog. R fell almost daily but was of a light character.—*Wallington*. Cloudy, damp and very warm, with comparatively small R. Owing to the absence of frost, garden produce was plentiful and good, but the warmth was prejudicial to fruit trees. Mean temp. $46^{\circ}2$, or $2^{\circ}0$ above the average. R 1.16 in. below, and rainy days three above the average. Duration of sunshine 41.7 hours, being 9.9 hours below the average, and 16 per cent. of the possible amount.—*Sheppey, Leysdown*. Mild, dull and damp, with many wet days, but not much R. The temp. touched freezing point on only four days. Free from storms except on 17th and 18th, when there was a N.E. gale.—*Crowborough*. Dull, dreary, gloomy and wet, with sunshine on thirteen days only; R on twenty-three days, total 5.03 in., which is above the average of the past 30 years. Mean temp. $44^{\circ}8$.—*Christchurch, Winkton Lodge*. Mild and no fogs. Afternoons usually dull, but there were many brilliant mornings with hot sun. Trees lost their leaves on account of heavy R.

III. *Slough, Upton*. The ground was still exceedingly dry a few inches below the surface, and forest trees, especially elms, were

suffering from the drought or perishing. Only forty-five hours of bright sunshine, and fifteen sunless days.—*Abingdon, Culham*. Damp and wet, but no great quantity of R. A few frosts.—*Oxford, St. Giles*. Very dull and dark. R not very heavy but spread over many days.—*Pitsford, Sedgebrook*. Very wet and unpleasant, with R constantly falling, yet .48 in. below the average. Mean temp. $43^{\circ}9$.—*Wisbech, Elm*. Dull, damp and disagreeable. Extraordinarily wet, with R on twenty-six days but without a large fall. Mild as a whole, mean temp. $44^{\circ}8$. Sharp frost on 10th, which destroyed all the summer plants remaining.

IV. *Billericay, Burghstead Lodge*. R .10 in. above the average, and very frequent.—*Colchester, Lexden*. Uniformly damp and dull, with very little wind. The moderate R soaked well into the ground.—*Ipswich, Bishop's Hill*. Damp, dull and misty, with two or three slight frosts. R .58 in. less than the average.

V. *Bishop's Cannings*. R .39 in. below, and rainy days six above, the average. Several shallow wells in the village were dry on 30th. The water in a deep chalk well about 100 feet down was about four feet lower than at the same date last year.—*Tavistock, Whitchurch*. Cloudy and rather wet, with temp. about the average, the daily mean varied from $54^{\circ}5$ on 1st to $37^{\circ}5$ on 20th. Wind variable. Fog on five days, H on two days. The higher parts of Dartmoor were white with S on 11th.—*Okehampton, Oaklands*. Wet and mild.—*North Cadbury*. Many rainy days and high average cloud, but lack of heavy R. Strong wind only on 28th. A fine spell from 17th to 23rd. Brooks were in no way swollen by R till 29th and ponds were not affected even then. Wells still very low.

VI. *Clifton, Pembroke Road*. Dull, mild and rainy, but although R fell on nineteen days, the total was nearly .25 in. below the average.—*Ross, The Graig*. The first half was warm and mostly rainy; from 11th to 23rd was fine and cold; from 24th to 30th wet and warmer. The total R was below, but the number of rainy days was above, the average. Little fog, and only one sharp frost. Scarcely any high winds and no gales. Leaves on elms continued much longer than usual, and out-of-door chrysanthemums were better than in most years.—*Coventry, Priory Row*. Generally mild and damp, with R on most days, but no considerable fall, and the streams were not full at the end. Very fine days occasionally; the foliage of the woods was not denuded at the end.

VII. *Worksop, Hodsock Priory*. Mild, dull and damp, but no heavy R, and very little frost.

VIII. *Bolton, The Park.* R $\cdot 24$ in. above the average. Changeable, wet and mild, with less fog and more sunshine than usual. Mean temp. $43^{\circ}\cdot 6$, or $0^{\circ}\cdot 5$ above the month's average. Sunshine was recorded on nineteen days, making a total of $27\cdot 5$ hours, or $2\cdot 5$ hours above the average. Fog, dense on 2nd, moderate on 24th, and slight on eight days.—*Southport, Hesketh Park.* R $\cdot 15$ in. below the average. Mild and equable, with little wind. Mean. temp. $2^{\circ}\cdot 4$ above the average. Mean daily range of temp. lower than in any previous November since the observations commenced in 1871. Frost in shade on two days, and on grass on thirteen days. Total sunshine four hours above the average. Slight TS on the evening of 10th. H on 9th and 10th. Hoar frost on four days, and fog on four days.—*Broughton-in-Furness.* The first half dull and drizzly, with an exceptionally fine day now and then; the R during this period fell in the night only. This was followed by eight fine days, the remainder being dull and showery, though the last day was beautiful.

IX. *Langsett Moor, Upper Midhope.* Wet and open, with ground frost on two nights only.—*Goldsborough Hall.* Very wet and dull, with R on twenty-three days. Only four bright days during the month. Very little frost.

X. *Brampton, Denton House.* Wet and disagreeable; R fell on twenty-four days.

XI. *Llanfrechfa Grange.* More boisterous than usual, but leaves remained long on the trees. No heavy gales. Only one or two white frosts.—*Llandefaelog-fach.* Dark, wet, and after the first week raw and cold.—*Douglas, Woodville.* The continuous R of October lasted till November 15th, followed by dry, calm weather to the 23rd, the remaining week being again very wet. The wind was nearly all easterly throughout, and seldom strong. Gales occurred on four days; H on two days; but there was no frost.

XII. *Lilliesleaf, Riddell.* R $2\cdot 34$ in. above the average, there being only two days without R. The ground was so saturated that it was impossible to get the fallen trees out of the woods, as the cart wheels sank so deep that the horses were unable to pull them.

XV. *Strathblane, Craigend Castle.* Dull and wet throughout, with slight frosts.

XVIII. *Loch Shiel, Glenaladale.* A warm winter month. Mean temp. $42^{\circ}\cdot 5$. The first half wet, the second half very fine.

XIX. *Watten, H.R.S.* Cloudy, dull and muggy, with short fine intervals.

XX. *Dunmanway, Coolkelure.* Very mild and wet. Owing to the almost incessant R in October and November, field work on farms was for many weeks impossible.—*Cork, Wellesley Terrace.* R .46 in. over the average. The first sleet and S fell on 9th and 10th. Though the min. temp. was not remarkable, the mean, $41^{\circ}7$, was the lowest in November since 1878, when it was $39^{\circ}0$.—*Derry Castle.* Stormy and very wet, the total R being 32 per cent. above, and the rainy days equal to, the average. The only fair weather was on 1st and 2nd, and from 16th to 23rd.—*Miltown Malbay.* Dark, misty, foggy and wet; only five days without R. There were no gales of any moment, and, save for three or four days, when H showers fell, the month was mild.

XXI. *Templeudigan, Ballindoney.* Exceptionally wet, R 9.01 in., almost exactly twice the average fall of the preceding five years. More than 1.00 in. fell on four different days. The heaviest R was from 5th to 6th, and from 24th to 29th, when the Slaney rose and flooded the town and railway.—*Kilkenny, Sion Villa.* Exceptionally wet, R 5.98 in., or 2.68 in. more than in any November for the past ten years. There was half a gale on the 6th, and a stormy period from 18th to 27th.—*Ballybrack, Streamville.* R 2.78 in. above the average of twenty years; it has only been exceeded on two occasions since 1897.

XXII. *Markree Observatory.* Rather wet, and little bright sunshine. Dry intervals from 16th to 20th, and at the end.

XXIII. *Belfast, Springfield.* Exceptionally wet, even for the N. of Ireland, and particularly for November, which is generally one of the finest months. The wettest since 1890.

DECEMBER.

I. *Kensington, Edith Road.* Rather wet and extremely warm, the mean temp. being $45^{\circ}9$, or $6^{\circ}8$ above the average. Max. temp. above 50° on twenty days. December, 1898, was very similar, but otherwise this month has not been approached for warmth during seventeen years.—*Muswell Hill.* R .85 in., or more than 35 per cent., above the average of twenty-eight years. On only two occasions were there as many as two consecutive dry days. R fell on each of the last nine days, amounting to 1.50 in.—*Finchley, Etchingham Park.* R .97 in., or nearly 43 per cent., above the average of fourteen years. The only consecutive days without R were the 16th and 17th and from 21st to 24th.

II. *Haslemere, Hazelhurst.* Warm and wet, with no snow, but rain on twenty-three days. Mean temp. 43° , max. 54° , min. in shade 29° , on grass 23° . Min. below 32° in shade on three nights, on grass on eleven. Fog was noted on five days. Severe gales about the end of the month. On Christmas Day forty-seven garden plants were in bloom, including roses.—*Abinger Hall.* Very mild and open, with little frost, and out-door work of all kinds was in full swing. Several alpine plants were more or less in blossom, and there were some prim-roses fully opened.—*Wallington.* R $\cdot 38$ in., and rainy days five, above the average. Exceedingly warm, with a fair amount of R and comparatively little sun. The mean max. temp. in shade, and the mean min. on grass, were the highest on record, and the mean shade min. was exceeded only by December, 1898. Many flowers were still in bloom. Mean temp. $45^{\circ} \cdot 2$, or $7^{\circ} \cdot 4$ above the average. Duration of sunshine $37 \cdot 4$ hours, being $1 \cdot 7$ hours below the average, and 16 per cent. of the possible amount.—*Birchington, Thor.* Extremely mild right to the end. Total duration of bright sunshine 60 hours 40 mins.—*Sheppey, Leysdown.*—Very dull and mild, with not much R, the largest fall being $\cdot 48$ in. on 30th. The middle of the month was fine. Terrific gale on 28th.—*Crowborough.* Very changeable, unsettled and wet throughout, and unusually mild. No frost or S. There were six fairly fine sunny days. R much above the December average and only exceeded by 1886 during thirty years.—*Bournemouth, Kempsey.* Wet, dull and very mild. Temp. above 50° on twenty-four days, and no frost in shade. There were fifteen sunless days.—*West Dean.* Very mild and excessively wet, with a good deal of fog, but very little frost. Very open weather, but too wet for working on the land. There was a tremendous hurricane from 27th to 29th, doing great damage to trees and buildings. Another very severe storm on 30th, when tremendous R and showers of H and sleet fell, causing extensive floods. Temp. fell very rapidly after the wind changed to N.E. on 30th.

III. *Highmore Vicarage.* Mild, with frequent R.—*Oxford, St. Giles.* Very mild and wet. R $1 \cdot 11$ in. above, but rainy days about, the average of thirteen years. Temp. nearly 3° above the average.—*Blisworth, Grafton House.* No S and little frost. Very rough; gales from 28th to 31st.—*Pitsford, Sedgbrook.* R $1 \cdot 44$ in. above the average. Mean temp. $41^{\circ} \cdot 3$.

IV. *Colchester, Lexden.* Mild and dull, with gales on 5th, 20th and 28th. Only one frosty day.—*Sudbury, Friars Street.* Unsettled and

rather mild, with very little frost. Heavy gale on 28th.—*Rendlesham Hall*. S.E., S., and S.W. winds from 1st to 19th. N.W. winds with frost to 25th. Heavy R on 30th, when 1·28 in. fell.

V. *Bishops Cannings*. R 1·68 in., and rainy days four, above the average. Springs very low, and water 100 ft. from the surface in a deep chalk well. Very few drains were running before the heavy fall of the 30th.—*Tavistock, Whitchurch*. Warm, damp, gloomy and very wet. R fell every day but 1st, 10th and 16th. The mean temp. varied from 39°·0 on 2nd and 22nd to 51°·8 on 5th. The max. temp. rose to or above 50° on eighteen days. Prevailing winds W. and S.W. Gales on seven days, fog on seven and H on two.—*Wellington, The Avenue*. Exceedingly rough and stormy generally, the wind at times being very high. R about 1·50 in. above the average, and temp. high.—*North Cadbury*. Max. temp. above 50° on twenty-one days, and on only two below 44°·5. Very cloudy, and after the first week a succession of strong winds and gales at night; those on 20th and 28th continued during the whole day. R fell frequently, but was not heavy till the 30th, when by far the largest fall occurred which has been registered since observations commenced in 1896.—*Long Ashton Estate Office*. Wet and mild; the heaviest December fall since 1876; R 2·50 in. above the average. Repeated gales.

VI. *Clifton, Pembroke Road*. Mild and rainy. Weather of the “westerly type,” with a succession of depressions from the Atlantic. The wettest December in forty-five years, except 1876, when 7·12 in. of R fell. The fall of the 30th was the heaviest since July 24th, 1894, when 2·62 in. fell.—*Wolverhampton, Tettenhall*. R 146 per cent. of the average of twenty-seven years.

VII. *Horncastle, Hemingby*. Mean temp. 43°·2, the highest for December since observations began in 1878. At 11 p.m. on 12th the temp. was 53°.—*Worksop, Hodsock Priory*. Dull and very warm, an absence of wintry weather, and a moderate excess of R. The mean temp. was the highest recorded for December since observations commenced in 1876; the night temps. were about normal for the end of April.

VIII. *Bolton, The Park*. R 1·24 in. above the average. Very changeable with wind in excess of the average. Mean temp. 44°·0 or 5°·3 above the average, and only exceeded by 1898. Frost on grass occurred on six nights. Duration of sunshine 6 hours 50 mins., or eight hours less than the average. Slight fog on 24th. H on 21st. This month completed the mildest Autumn experienced since the record

began. For the first time in at least sixteen years there was no trace of S or frost during the autumn quarter.—*Southport, Hesketh Park*. R 43 in. above the average. Remarkably mild and somewhat windy. Mean temp. 7°·0 above the average. Frost in the shade on only one day, and on grass on ten days. Total sunshine one hour above the average. Gales on eleven days, very strong on three. H on 21st. Hoar-frost on four days.—*Broughton-in-Furness*. Dull, wet and stormy, but very mild, with not a single frosty night. Many flowers in bloom at the end. Mean temp. 47°·9.

IX. *Hebden Bridge, Falling Royd*. Wet and very dull with twenty-five rainy days; but remarkably mild, the mean temp. 43°, being 6° above the average of twelve years, and 10° higher than in 1899.—*Goldsborough Hall*. Very mild; the max. shade temp. was 40° or more on twenty-seven days, and on four days above 50°. Frost on only seven days. No S fell.—*Settle, The Terrace*. Very mild and damp. Only one slight shower of S.—*Middlesbrough, Ormesby*. Fairly dry and very mild with gales in the latter part.

X. *Keswick, Shu-le-crow*. R the greatest since 1891. Wind blowing persistently from W. to S.S.W. from 7th to 28th, with frequent gales, and a hurricane on 20th, when the newly repaired vane of St. John's Church, Keswick, was blown away.—*Cockermouth, Brandlingill*. The greatest R for any month ever registered.—*Brampton, Denton House*. Wet. R fell on twenty-eight days.

XI. *Llanvihangel Court*. Very gloomy and sunless. Temp. much above the average from 3rd to 16th, and from 24th to 31st. Some very heavy N.W. and W. gales. Roses and other flowers were still showing a few blooms at the end.—*Llandovery*. Very wet, most unhealthy weather.—*Douglas, Woodville*. Extremely mild and stormy. The third very wet month in succession, making a total R of almost seventeen inches in 67 days. Westerly gales blew almost continuously from 7th to 28th. No frost occurred.

XII. *Moniaive, Maxwellton House*. Wet and warm. Mean temp. 41°, or 2° above the average. R 3·00 in. above the average.—*Lilliesleaf, Riddell*. Unusually wet and windy, with continual R, there being only two rainless days. The country all round was a bog. The temp. was uniformly high, and there was only one night frost.

XIV. *Dalry Blair*. The heaviest R of any month in the year, only three days on which R did not fall.

XV. *Strathblane, Craigend Castle*. Mild, but very wet, with R every day. Gale on 20th, when trees were blown down and other damage

done.—*Ballachulish, Ardsheal*. The greatest monthly fall ever recorded at this station.

XVI. *Callander, Leny*. R 14·00 in.; the wettest month for years.—*Coupar Angus Station*. Persistent R and destructive gales. Mean temp. 41°·5, which is unusually high.

XVIII. *Aviemore, H.R.S.* Wet and misty.

XIX. *Bettyhill*. R heavy and nearly continuous with few interruptions. Strong W. wind for a fortnight in the middle.

XX. *Dunmanway, Coolkelure*. Very wet and extraordinarily mild. When not raining heavily, there were violent gales, mostly from W. and S.W., and sometimes both R and wind together. Land quite saturated and no field work possible.—*Cork, Wellesley Terrace*. Though the R was excessive it was quite a contrast to that of December, 1899. The temp. was a little above the average.—*Derry Castle*. Very wet and tempestuous, with little frost and no S. R 38 per cent., and rainy days 21 per cent., above the average of ten years. Fierce gales were frequent from 19th to the end, and many trees were blown down, but otherwise no serious damage was done.

XXI. *Templeudigan, Ballindoney*. Mild weather. A hurricane from N.W. on 28th blew down many trees.—*Kilkenny, Sion Villa*. Cold and very damp, with morning frosts on five occasions, and fogs on three. Storms occurred almost daily from 17th to 28th.—*Ballybrack, Streamville*. Damp and mild, with storms. R ·43 in. below the average of twenty years.

XXII. *Achill, Coraun House*. Continuous gales, with the wind only varying a few points, between S.S.W. and W.S.W., and never ceasing though, the strength varied from 9 to 12. Old men of 95 remember no such month before. Roofs and stone walls a yard thick were thrown down as if they were match-boarded.—*Markree Observatory*. Wet; R falling almost every day, but the total was little above the average. Bright sunshine was very deficient, and mean temp. above the average, with little frost and no S.

XXIII. *Belfast, Springfield*. Wet and very free from frost, but remarkable for frequent storms, which generally do not occur here till January. The country was in a very sodden state.

OBSERVERS' NOTES ON THE YEAR 1900.

ENGLAND.

DIVISION I.—MIDDLESEX.

TWICKENHAM, HAMPTON ROAD.—R .97 in., and rainy days twenty, above the average of seven years. Absolute drought from July 5th to 25th inclusive.

KENSINGTON, EDITH ROAD.—Very warm, mean temp. $1^{\circ}9$ above the average ; the eighth warm year following eight cold ones. The intense heat in July, and the mildness of December, were remarkable features. R 2.00 in. below the average, the same amount as in 1899, but falling on thirty-eight more days. An absolute drought of twenty days occurred from July 7th to 26th, but there was no partial drought.

WESTBOURNE GROVE.—An equable year, although February was exceptionally wet, with a fall of 4.18 in., or over an inch more than any other month.

MUSWELL HILL.—R nearly 4 per cent., and rainy days six, less than the average of twenty-eight years. The most marked feature was the wet period in January and February, the R of those months aggregating 7.22 in., or 3.30 in. above the average. June, August and December also showed excess of R, but the other seven months all showed deficiency ; the year, as a whole, having .89 in. less than the average. There was no heavy fall in twenty-four hours, and no absolute drought.

FINCHLEY, ETCHINGHAM PARK.—R about 5 per cent., and rainy days 6 per cent., above the average of fourteen years. January and February were very wet, aggregating 8.01 in., or 4.72 in. above the average. June, August and December had also more than the average R, but the remaining months were exceptionally dry. There was no heavy fall in twenty-four hours, and only one absolute drought of twenty-two days, July 5th to 26th.

DIVISION II.—SOUTH EASTERN COUNTIES.

HASLEMERE, LOWER STREET.—Chiefly remarkable for the heavy R in January and February ; half of the annual fall being recorded in the three months January, February and December. The total for the year was 4·73 in. above the average of twenty-eight years.

HASLEMERE, HAZELHURST.—Much S in February and some skating. A dry March, with N. winds. A dripping June, and good hay harvest, though low temp. made fires comfortable about the 25th. A grand fruit year all round. July was the most sunny month with 287 hours. December was mild and wet ; there were fifty varieties of plants in bloom out of doors on Christmas day. Partial drought for twenty-three days, with ·07 in. of R, ended on July 26th, and for twenty-two days, with ·02 in. ended on September 23rd.

CHIDDINGFOLD, BEACONSCROFT.—With the exception of a few days, notably in February, the R was never heavy, though the total fall was above the average, and the beginning and end of the year were very wet. At the end of the year the ditches were still dry.

WITLEY, FERNSIDE.—A year of extremes, with R above the average. The two first and the two last months were remarkable for the number of consecutive wet days. Very deep S fell at the end of January, which remained till February 14th, and, melting quickly, caused a flood in the Wey. March and April were dry, and May was cold, making spring backward. Severe TSS occurred in June. The first three weeks of July were intensely hot, concluding with heavy TSS and copious R, which was much needed. From August 22nd to 29th there were cold E. and N.E. winds, and thick atmosphere. A very mild autumn continued quite up to Christmas, when roses were gathered.

CRANLEIGH COMMON, HOMEFIELD COTTAGE.—January and December were both mild, and had the greatest number of rainy days, but the greatest amount of R fell in February. February had the lowest mean temp. 40°, and July was the finest and warmest month, with a mean temp. of 65°·2. The longest period without measurable R was from July 7th to 26th.

FARNHAM, SHORT HEATH LODGE.—At the end of February the R was 4·41 in. in excess of the average, but March, April, May, July, September, October and November, all had less than the average. The autumn was remarkable for the constant dribblets of R, resulting in 180 rainy days in the year.

DORKING, WOODCOTE.—January was very wet and mild, while February, with 6·25 in. of R, was the wettest month of the year, and the wettest February on record. Great heat and drought were experienced in July. Three heavy S.W. gales came in the first nine days of August, and persistent light R fell from October 22nd to the end of the year, with high temp.

DORKING, WEST STREET.—The middle of July was intensely hot. A peculiarity of the year was the great dulness of November and December ; the sun rarely shining, and the air seemed always full of warm mist when R was not falling.

REIGATE, NORTHCOTE.—A great improvement as regards R. The drought in the several preceding years had been disastrous in its effects, particularly on the foundations of houses on clay soil.

BAGSHOT, HALL GROVE.—Land drains were running freely in March. The last half of June was cool and showery, and delayed the haymaking. Cyclonic weather in the first week of August destroyed much fruit. R was wanted badly in the third week of September, and vegetables and shrubs suffered. The water had just begun to rise in deep wells in the last week of the year, but was very low in places. The weather in December was very mild, trees coming into leaf and flower.

MORDEN.—S fell in the latter part of January, and in the beginning of February, having a depth of 8 inches on 11th. On February 15th 2·25 in. of R fell, causing floods on the 16th which were unprecedented in twenty years.

TENTERDEN.—The most remarkable features were the exceedingly wet February, and the long period of deficient rainfall which followed ; the eight months, March—October, had only 11·32 in. of R, the least recorded during thirty-seven years. The only wet periods were a fortnight in midsummer, and the first week of August. February and March were the coldest months ; April, May and June were also cold for the season, but the heat was excessive from July 10th to 26th, eleven days being over 80°. The middle of August was hot and partial drought extended from August 28th to September 26th, the total R of forty-eight days being 4·61 in. Pastures were barer than in other recent dry years, and wells as low. October was warm, and December especially so. Total sunshine for the year 1695 hours. The min. temp. fell below 32° on thirty-seven nights in the shade, and on ninety-three on the grass.

HYTHE, HILLHURST FARM.—R 2·48 in. above the average of sixteen years. Wind N. or E. on 146 days, and S. or W. on 219.

CRANBROOK, HARTLEY.—On account of the great R of January and February, the total of the first six months was 15·31 in., which has not been equalled since 1885, nor exceeded since 1879. The drought in autumn was very severe, and stock suffered much for want of keep and water. The wells had not been known to be so low and out of order, as they were at the end of this year, during an experience of the locality extending to fifty-three years.

HYTHE, FROGHOLT.—A long period of scanty R from the end of February to the beginning of November. Much trouble was caused by wells and springs running dry; one effect being extraordinary backwardness in the growth of grass throughout the year, which the heavy but intermittent R did not remedy.

ACRISE, SCHOOL HOUSE.—R 25 per cent. above the average. There were six falls of an inch or more in twenty-four hours.

TUNBRIDGE, PRIMROSE HILL.—The year opened with much R, one-third of the total falling in the first two months; the accumulation of S culminated in great floods when the thaw came on February 15th. March, April and May were droughty. With the exception of the intense heat in the middle of July the summer was a cool one. November and December were very dull, damp and mild, and there was an unusual number of days on which R fell, though the quantities were usually small. Flowers were in bloom to a remarkable extent quite to the end of the year.

MAIDSTONE, MOUNT HOUSE.—The R of February was the largest in the record since 1870, the nearest approach being 3·51 in. in 1893. July was the hottest and December the mildest on record.

SELLING, HAREFIELD.—More R fell during the first six months than in any corresponding period in thirty-three years, the fall exceeding that of 1877 by ·03 in.

BIRCHINGTON, THOR.—The year will be remembered for its drought and the excessive heat in July, when the shade max. reached 92°. It also continued very mild right to the end, the shade max. being 55° on several days in December.

RECVLVER, BROOK.—The wetness of January, February, November and December brought the year's R up to about the average, though the remaining months were dry. The fall in the early months flushed up the springs, which stood better than in 1899, though they were low at the end of the year, when hardly any water was in the brooks.

ST. PETERS.—The R in February was abnormally great. The yearly total was, however, near the average, but the fall was very unequal, March, April and May being all dry, and affecting vegetation considerably. September, always fine here, surpassed itself. The R of October and November did not penetrate the ground further than 12 inches ; below that the soil was perfectly dry.

MARGATE, APSLEY HOUSE.—R 1·25 in. below the average, but the falls of January and February were more than double the usual amount. There was only one heavy fall, 1·02 in. on February 17th.

ROCHESTER, HOO ST. MARY.—The most noticeable features were the two long periods of drought of three weeks' duration, during July and September, the absence of TSS, and the tropical heat of July. The grass was dried up and a great portion killed by the extremely dry weather. There was scarcely any fog, and the autumn was mild and without frost to injure vegetation.

CHICHESTER, WESTGATE MEADOW.—R about 1·50 in. below the average, although the number of wet days was higher than usual. This seems to be accounted for by the fact that not once was a fall of over an inch in twenty-four hours recorded.

CHICHESTER, FOREST SIDE VICARAGE.—R 1·68 in. above the average of twelve years.

FALMER.—R ·77 in. below the average of forty years. This being the fifth year in succession with R below the average, making a deficit of 18·85 in. in five years, fully accounts for the lowness of springs.

LEWES, SAXONBURY.—R 3·26 in. and rainy days twenty-three, above the average of nine years.

HASTINGS, GUESTLING RECTORY.—The absence of S from the ground during the whole year was very remarkable. There was a good deal of S on February 13th, which melted almost as it fell, and R and S next morning. This was followed by heavy R on the 15th.

CLAYTON RECTORY.—R 4·81 in. above the average of nine years.

BUXTED, STRAWBERRY HALL.—A wet spring, dry summer, wet autumn and open winter.

TICEHURST, WHILIGH.—January and February were very wet ; 4·09 in. of R fell in the ten days ending February 22nd. March, April and May were very dry, though heavy S and R fell during the night of March 18th, when ·86 in. was recorded. July was mostly dry, with a TS on 27th. September was very dry and hot till near the end, ponds wasting rapidly. The end of October, and all November and December were very wet.

BONCHURCH, THE LILIES.—There were few fogs, few TSS, very little S and few gales. Duration of sunshine 2046 hours. Frost on grass on thirty-six occasions, thirty-four being before April 5th, and two after. November and December were very mild. Fruit abundant, and other garden crops above the average.

TOTLAND BAY, WILMINGTON.—R 1·77 in. above the average. July, September and October were dry; January, February, June, September and December were wet.

NEWPORT, CASTLE HOLD.—R 1·30 in. above the average of nineteen years.

WOOTTON, FERNHILL.—July 5th to 26th was the longest hot period, with max. temp. over 80° nearly every day. In the cold spell from January 28th to February 18th, frost was registered every night. The drought was not so bad as in 1899, and had not so great an effect on trees and shrubs.

OSBORNE, NEWBARN COTTAGE.—R ·82 in. above the average of forty-three years. February was exceptionally wet, the R for that month being the largest amount registered in any February for at least forty-three years.

BOURNEMOUTH, KEMPSEY.—The main features were the cold and wet February, with exceptionally low barometer, the dry September, and the very mild and dull December.

CHRISTCHURCH, MUDEFORD.—R ·24 in. more than the thirty years' average. No total or partial droughts.

CHRISTCHURCH, WINKTON LODGE.—R 1·50 in. under the average of nine years. Spring was wet and cold. In July there was partial drought for seventeen days, and in September absolute drought for eighteen days; otherwise it was an average year. R was very equally distributed. One inch, or more, in twenty-four hours fell on one occasion only, viz.: December 30th.

EMSWORTH, REDLANDS.—A hot summer, warm autumn and mild winter. R 1·05 in. above the average of seventeen years. The wettest months were January, February, June and December. On no day did so much as an inch of R fall. Absolute drought for twenty-one days in September.

BISHOPS WALTHAM, NORTHBROOK HOUSE.—A year of great variations. In September, the driest month, R was registered on only six days; in December, the wettest, on twenty-seven days. From February 13th to 27th, and from December 2nd to 15th, both inclusive, R fell every day, and from September 11th to 23rd, no R fell.

OTTERBOURNE W.W., SHAWFORD.—R only 1 per cent. in excess of the calculated true mean, although there were no less than 200 rainy days. Absolute drought for fifteen days ending September 25th, and partial drought for thirty-one days, with .24 in. of R, ending on the same date.

SWARRATON RECTORY.—The wettest year since 1894, the R having been exceeded on only four occasions since 1876.

WINCHFIELD, SHELDONS.—Another dry summer; ponds empty, springs very low. Crops, except wheat, bad.

HARTLEY WINTNEY.—R .78 in. above the average. The wind was S. to S.W. on 227 days. A remarkably hot July; the max. temp. in shade on 19th was 92°·5.

HARTLEY GRANGE.—The wettest year, with one exception, since 1893, the R being 1·40 in. above the average of eight years.

HECKFIELD, PARK CORNER.—The sixth year in succession with less than the average R.

READING, EAST THORPE.—R .07 in., and rainy days six, above the average of ten years.

YATTENDON COURT.—A large fall of S in February. R under the average in the other months. Vegetation very healthy, abundant crops of all kinds of fruit, acorns and berries. Autumn was genial, and very mild and open weather prevailed till the commencement of the new year.

DIVISION III.—SOUTH MIDLAND COUNTIES.

BERKHAMPSTEAD, ROSEBANK.—R .03 in. above the average of forty-four years.

WELWYN, DATCHWORTH RECTORY.—Less R than in 1899 and not so many heavy TSS. Absolute drought from July 4th to 19th, inclusive, sixteen days; partial droughts from July 1st to 26th, (twenty-six days) with .19 in. of R; and from September 1st to 25th, (twenty-five days) with .07 in. of R.

BUNTINGFORD, THROCKING RECTORY.—The wettest January and February, and the warmest July and December since 1880.

SLOUGH, LANGLEY.—R below the average. A wet February, dry March and April and very fine July and September.

HEDSOR.—R 2·37 in. above the average. Mild and unsettled, with copious R till the end of January; very cold and wintry during the first half of February, with heavy S, yielding 1·15 in. on 2nd and .89 in.

on 13th, and severe frosts on several nights. A dry period followed, with sharp frosts about March 17th, the spring being generally cold and unseasonable, except from April 18th to 23rd. The summer was characterized by great heat and drought in July and heavy R and abnormal storms in the early part of August. The autumn was mild and seasonable with copious R from the end of October, and no strong wind till the close of the year. Absolute drought from July 4th to 26th.

CHALFONT ST. GILES, THE STONE.—Very dry and parched in July. Constant wet in November and December, but with little effect on the springs.

AMERSHAM, THE PLANTATION.—Frost was recorded on fifty-six days in January, February, March and April, and on only fourteen days in October, November and December.

WINSLOW, ADDINGTON.—A feature of the year was the great abundance of blossom on trees and shrubs of all kinds. The ripened seed-vessels on the large elms gave them quite a yellow appearance, and as they fell the ground was covered to some depth. Beech nuts and acorns were also most abundant. The only really severe frost of the year was on February 7th, 8th and 9th, when the min. temp. was 11°.

WOLVERTON, THE SCHOOL HOUSE.—January was wet, with heavy S on 27th. Heavy S storms occurred on February 2nd and 13th, when there was much drifting. March and April were dry, and July was dry with occasional TSS. September was dry also. Frequent R in the latter part of October and in November and December.

CULHAM.—The year began wet, the fall of the first two months being considerably above the average; afterwards it was dry and R was deficient until December. Though the total R is 3 inches below the average, it fell on an unusually large number of days. There were very few heavy falls.

OXFORD, ST. GILES.—R 1·06 in., and rainy days nine, above the average of thirteen years. Frost on forty-three occasions, which is less than in any year except 1898.

BANBURY, BODICOTE.—R 2·09 in. above the average of twenty years. February and August were exceptionally wet.

BLISWORTH, GRAFTON HOUSE.—R 1·85 in., and rainy days twenty-three, above the average of sixteen years.

SYWELL HALL.—Although the R for the year was considerably

in excess of the average, wells were very low and there was scarcity of water from the beginning of August to December.

WELLINGBOROUGH, CROYLAND ABBEY.—R 1·08 in. below the average of forty years.

SCALDWELL.—R 3·58 in. above the average of nine years. A long, cold, dry spring and hot summer. Light corn crops, badly got in owing to the wet August. A very mild and damp autumn and no great quantity of R till the last week of December, when 2·59 in. fell.

LILFORD HALL GARDENS.—One of the peculiarities of the year was the heavy R of four months and the small quantities in the others, 15·02 in. falling in January, February, August and December, out of a total of 23·93 in.

STAMFORD, COLLYWESTON HOUSE.—A cold spring, short summer, and very wet and mild autumn.

MAXEY VICARAGE.—R 1·30 in. above the average of eighteen years.

DIVISION IV.—EASTERN COUNTIES.

GRAYS SEWAGE WORKS.—R fell on the greatest number of days in any of the six years during which records have been kept.

BILLERICAY, BURGHSTEAD LODGE.—R frequent, but 2·00 in. below the average. The first and fourth quarters were moist but very mild ; the second and third quarters fine with many good showers. A good year for corn crops and foliage of trees. Root crops very late and “after feed” scarce. S on eight days amounting to 2·38 in.

HAVERING GRANGE.—A warm summer and damp autumn, with absence of bright sunshine.

FINGRINGHOE, BALLAST QUAY FARM.—The R was chiefly remarkable for its scantiness after March 1st. What did fall came as a rule in such small quantities that it quickly evaporated from the surface, and at the close of the year the subsoil was exceptionally dry and springs and wells were very low.

COLCHESTER, SURREY VILLA.—A very wet January, but most of the R fell in the night, the days being generally fine. No heavy R till December 30th, when ·95 in. fell, the previous max. being ·58 in.

BOCKING, FENNES.—The eighth year with R below the average. Absolute drought for twenty-one days ending July 26th, and for sixteen days ending September 23rd.

IPSWICH, BISHOP'S HILL.—R ·90 in. less than the average, this

being the sixth year in succession below the average, the mean deficit being 3·04 in. January, February, June and August were very wet; March, April, May, July and September very dry. Again a marked absence of TSS.

HAWKEDON RECTORY.—Perhaps the leading feature of the year was long alternate spells of dry and wet weather. From August 11th to October 16th the weather was fine and warm; from that date to the end of the year, dull, damp and rather mild, with a noticeable absence of sun. A heavy gale on December 28th was followed two days later by the heaviest R of the year.

DARSHAM, SIBTON.—The R of 1900 was considerable, both as regards the total fall and the number of wet days. January, February, June and August were wet months; there was, however, no very heavy fall on any one day till December 30th, when 1·16 in. fell.

WALSHAM-LE-WILLOWS.—Severe TSS in the summer, especially on June 13th and July 20th and 27th. A farm-house was struck at a distance of a mile to the W.

KESWICK, OLD HALL.—In spite of the R being above the average, there was only one day on which an inch of R fell. From October 16th to November 30th there were only five days without R.

EMNETH.—An average year. The unusually heavy fall of 1·44 in. on December 30th is noteworthy as occurring at a period when such falls are rare.

NORWICH, BRUNDALL.—The R of the year was almost exactly the average, but the number of rainy days was the largest on the register, being two more than in 1894.

NORWICH, ESSEX STREET.—S during the second week of February. The first six months yielded over 14 inches of R, whereas the average is only 10·47 in. A wet August, the first ten days being very rainy. September brought fine harvest weather. The last half of October and all November generally rainy.

SWAFFHAM.—The greatest fall since 1883 when 30·13 in. fell.

EAST DEREHAM.—A mild winter, a cold late spring, and a fitful summer, with excessive heat at times and very heavy TSS. A fine September, but a wet autumn. R about 3 inches above the average.

TILNEY ST. LAWRENCE, AYLMER HALL.—The R exceeded by ·83 in. the highest previous record.

BYLAUGH PARK GARDENS.—R about 5 inches above the average.

DIVISION V.—SOUTH WESTERN COUNTIES.

SALISBURY, BROWN STREET.—A year without any particularly marked characteristics. No prolonged drought. Only two falls of over an inch in twenty-four hours. Productive for grass and roots, but barely an average crop of corn. Gales on August 3rd and 6th, and December 28th ; great floods on December 31st.

MAIDEN BRADLEY.—R 1·97 in., and rainy days one, above the average of thirteen years. An inch or more fell on three days.

WARMINSTER, RYE HILL.—After a comparatively mild January and February there was a cold, barren March, very detrimental to vegetation. April had a few warm days about the 21st, but frosty nights were prevalent. The temp. was very changeable in May, frosty nights and harsh winds being common. June was very cold at the beginning ; summer could not be said to begin before the 10th. July was fine and warm ; August stormy at the beginning, but fine generally after the 10th ; September was fine and pleasant ; October fine till 25th, then stormy to the end ; November and December were wet and gloomy, with very little sunshine. Heavy R in the last week, especially on 30th.

SHREWTON.—In February, June and December the R was about 70 per cent. above the average ; in March and July each about 40 per cent., and September about 80 per cent., below. The other months and the yearly total did not differ much from the average.

BRADFORD, THE CHANTRY.—The wet February seemed to help us through the long summer drought, for grass held out fairly. The springs gradually dried up, and were at their lowest in October, when one dried up which has never previously been known to fail. The R on December 30th was unprecedented, it was mixed with S and followed by a great flood.

BISHOP'S CANNINGS.—R 2·13 in. above, and rainy days seventeen above, the average. Wells and springs were very low at the end. Of the 199 days on which R fell, less than ·10 in. fell on ninety.

CALSTONE RECTORY.—January and February were very wet. March was dry at the commencement. May was dull, cold and dry, with no R from 10th to 20th. June was cold and sunless, and July generally dry, fine and hot, with no R from 5th to 12th. August was fine generally, there being no R from 10th to 21st. September was the finest and the driest month of the year ; no R from 2nd to 14th, and only ·08 in. from 1st to 25th. November and December were

wet, especially the last week in December, when on 30th 1·78 in. fell in twenty-four hours.

YATESBURY.—The distribution of the R was remarkable. The three winter months, January, February and December, had much above the average; the spring and summer months, except August, had much below the average. The total is about two inches above the average. In every other year of excessive R the excess has occurred in the summer.

WINTERBOURNE HERRINGSTONE.—No TS during the year.

DORCHESTER WATER WORKS.—No less than 22·07 in. of R fell in the four winter months, January, February, November and December. The year was not marked by any torrential R, or heavy TSS, and there was very little S. On three occasions only did the R exceed 1·00 in. in twenty-four hours.

CHEDINGTON COURT.—The R exceeded that of 1899 by 10·51 in., more falling in each month, except April, September and November.

IVYBRIDGE, LANGHAM HILL.—1900 was one of the four years since 1886 in which the R exceeded 50 inches, being about 10 inches above the average. January and February were excessively wet, and December was even wetter. June also was wet. July was dry, but there was no period that could be called a partial drought. There was hardly any frost either at the beginning or end of the year, but some S on February 11th and 12th, and on March 21st and 22nd.

TORQUAY, WATCOMBE PARK.—From the middle of November to the end of the year was the longest continuance of wet weather ever remembered.

MEAVY, YELVERTON.—The greatest R ever registered here.

ASHBURTON, HOLNE VICARAGE.—R 2·42 in. above, and rainy days fourteen above, the average of ten years. On seven days falls of an inch or more were recorded.

TAVISTOCK, WHITCHURCH.—A wet and cloudy year, with about average temp. The longest period of consecutive wet days was from January 5th to 28th, with 6·74 in. of R. In thirteen days ending February 25th, 8·50 in. fell. The longest dry period was from January 29th to February 9th. One inch, or more, fell on five days, and two inches on one day. The first and last two months, and June, were wet. March, July and September were dry. January, July and December were warm months, and the remainder, except April and November, were cold. The max. temp. rose to, or above, 80° on two days. N.W. winds prevailed in January, April and July, E. in

February, N. in March, S. in May and August, S.W. in June, and from September to December. Frosts occurred on thirty-one occasions, S on twenty-six, and H on twenty-nine days. T or TSS on fourteen days; L on eleven days. Gales on thirty-seven days. The hay and corn harvests were good.

EXMOUTH, BETWORTH.—Though the total R was more than an inch above the average, the year was dry in an agricultural sense, for 18·53 in., or more than three-fifths of the whole fell in January, February, November and December. The town reservoir was very low till mid-December.

KENTON, SOUTHTOWN HOUSE.—Heavy R in January, February, November and December, and dry during the rest of the year.

ROUSDON.—The first half of the year was very wet and at the end of June the R was 5·63 in. above the average of the last seventeen years. The succeeding months were, however, so dry that by the end of November the total was almost the average amount. September, with ·69 in., was the driest month and the driest September of the last seventeen years. December, with 5·68 in., was the wettest month. The longest period without R was fourteen days, from May 7th to 21st, while R was measured on ten consecutive days in August, eleven in February and twelve in December. The two heaviest day's records during the year were 1·13 in. on January 6th and 1·09 in. on December 30th. Heavy S fell on February 13th, followed by a sudden rise of temp. and much R, 2·11 in. falling between 13th and 16th. This caused floods of unusual magnitude over the low-lying districts of Devon and Dorset. The valley of the Axe was under water for a long distance inland resembling a large arm of the sea, and the tides, which were the highest known at Axmouth for fifteen years, ran with such force as to carry away the Woodhayne Bridge of the South Western Railway near Axminster. Near Gara Bridge Station on the Great Western Railway, the water rose 3 ft. over the rails; at Topsham level crossing it was 4 ft. deep, and at the Colyford level crossing the water was 6 inches deep, 4 inches deeper than during the great flood of November 30th, 1888.

EXETER, HEAVITREE.—September was by far the most beautiful month of the year. January, February, November and December were very wet. A great deal of fog was experienced during the autumn.

ABBOTSHAM, RICCARD'S DOWN.—The greater part of the year was dry, so that wells, hitherto considered inexhaustible, dried up, probably

helped by the two previous years being below the average. Autumn was unusually free from gales. Violent N.W. gales on December 28th and 29th.

PARRACOMBE.—The heaviest R ever registered here. The end of August and the beginning of September formed the only really dry period.

LYNTON, ROCK HOUSE.—January was mild and open. The early part of February was very cold, the min. temp. on the 9th being 21°; and on 13th occurred the heaviest fall of S for some years, succeeded by a rapid thaw and heavy R. March was cold, but without violent gales or dust. The summer was not so intensely hot as it seemed to be in other parts of the country, and there were only three periods during the year when more than eight days elapsed without R. December was the wettest month, with no frost.

PENZANCE, PENLEE.—The wettest year since 1882.

MARAZION.—R 6·17 in. above the average of six years.

REDRUTH, TREVINCE.—R 7·40 in., and rainy days nineteen, above the average of thirteen years. The wettest year since 1891, when 50·58 in. fell on 204 days.

REDRUTH, TREWIRGIE.—No absolute or partial drought, the nearest approach being from April 12th to 28th with ·02 in. of R. Mean temp. for the year 50°·4.

EMPACOMBE [DEVONPORT].—R 3·78 in. above the average. A more prosperous year for agriculturalists than for many years past.

ST. GERMANS, TRETHILL.—Cold and frosty from January 29th to February 14th. S fell on February 11th and 13th, and on March 17th and 18th. Frost and cold winds from the 17th to the end of March. October, November and December were very mild, but stormy.

LISKEARD, TREVILLIS.—No R from February 1st to 10th, but S to the E. of Exeter. S from March 17th to 20th. A very mild autumn.

LAUNCESTON, ALTARNON.—R about five inches above the average. The winter ended with cold and S from March 16th to April 4th. April and May gave dry, cold weather, useful for sowing. A wet June followed by a dry, hot July, producing heavy hay crops. From July 27th to August 10th it was wet and windy, and detrimental to fruit and corn. After August 10th the harvest season was all that could be wished till September 26th. January, February, June, November and December had more than the average R; there was an average fall in May and August, and less than the average in April, July, September and October.

YEOVIL, WEST COKER.—A late and cold spring, followed by a fine and hot summer and autumn. A good year for all kinds of fruit, and a good harvest year for cereal and root-crops, also for hay. Water was deficient in many places. The winter months were very wet and mild, and many roses and other flowers were blooming till Christmas.

WELLINGTON, THE AVENUE.—The year opened with two very wet months, but from March to September the fall was below the average. The last three months had a large R, December being very wet.

NORTH CADBURY RECTORY.—Only one dry quarter, that from July to September, yet a shortage of water was much felt even into December, and the pond, even after 2'01 in. on December 30th, was quite low. There was no summer till a burst of excessive heat from July 10th to 31st, and a hot spell from August 13th to 20th. A beautiful, but not hot, September and a fine October took away the feeling of curtailed summer. December was phenomenally mild. A good deal of S fell in February and March, but none in the second half of the year. Absolute drought for twenty-two days ended on September 23rd, and partial drought for thirty-three days, with '25 in. of R, ended on September 25th.

GLASTONBURY, HIGH STREET.—R in January and February much above, and in September considerably below, the average.

HOLFORD, WOODLANDS HOUSE.—January was rainy and warm. S and frost occurred during the first half of February, but the second half was warm and damp. March was continuously cold with bitter, though not very violent, wind, and generally sunless. Part of April was warm, but cold winds were common in that month and also in May and June. July for the most part was hot with severe TSS. August commenced with wet, windy and cold weather, then, after ten warm and fine days, came more R and storms. September was very fine and sunny. The early part of October was fine and the latter part rainy and warm. November and December were wet and sunless, the latter being mild, with a severe gale on 28th.

CRANMORE, CRANMORE HALL.—R 1'00 in., and rainy days one, over the average of twenty years.

FROME, ORCHARDLEIGH.—July was very dry and hot, twelve days had shade temp. above 80°. September was very fine till 26th. November and December were unusually mild with almost invariable S. to W. wind. Some roses were still in bloom in December.

STON EASTON.—R 4'66 in. above the average of thirty-two years.

HARPTREE COURT.—R 10·02 in. above the average of eighteen years. The excess was caused by the heavy falls of January, February and December.

RADSTOCK, CAMERTON COURT.—R about 8·00 in., and rainy days nineteen, above the average of six years. The springs were reduced sooner than in 1899, and not much increased until November 1st.

LONG ASHTON.—R ·75 in. below the average of twenty-eight years. The first half of the year was three inches in excess and the second half 3·75 in. short of the average.

DIVISION VI.—WEST MIDLAND COUNTIES.

CLIFTON, PEMBROKE ROAD.—R ·62 in., and rainy days twelve, above the average of forty-four years. The most noteworthy features were—the exceptionally heavy rain of February and December, the fall on December 30th (which was the heaviest since July 24th, 1894), and the unprecedentedly small rainfall of the three months, July to September—viz., 4·16 in. The fall in February was the largest in forty-five years, and that in December the largest for a like period with the single exception of 1876.

BRISTOL, FISHPONDS.—A year of deficient R until nearly its close, but the extraordinary deluge of December 30th brought the total well up to the average. Almost half the year's fall occurred during the three winter months, the others having large deficiencies, except May, June and October, which had fairly average amounts. The year was remarkable for great heat in July, and for continued warmth during the autumn.

FAIRFORD, KEMPSFORD.—The year was remarkable for its dry and extremely hot summer, the land not being well soaked until the end of December. Although the R was light, there were more rainy days registered than in any previous year. This was mainly due to the very damp and mild autumn.

LYDNEY, PRIORS MESNE.—An unusually heavy total R for the year. February and December were two extraordinarily wet months.

CIRENCESTER.—R five inches above the average of eleven years, but very irregularly distributed throughout the year. Although the springs were very full as late as early in March, still the drought was severely felt even till November. The fall on December 30th was a record.

FAIRFORD, HATHEROP RECTORY.—R exceeded the average of thirty years by about an inch. The fall of 5·25 in. in February, usually a dry month, was remarkable and probably unprecedented. It was approached in 1881, but the fall was then about ·75 in. less.

GLOUCESTER, BIRDLIP HILL.—The largest R for eighteen years. February had a fall to which no equal could be found in all known local registers. The fall of 2·79 in. on December 30th also forms a record.

GLOUCESTER, LOWER BARTON STREET.—R 5·50 in. above the average and unevenly distributed, March, April and September being dry, and February and December very wet. On February 13th there was a heavy fall of S, followed during the remainder of the month by heavy R and floods. On December 30th 2·84 in., the heaviest fall on record and 9·5 per cent. of the total, fell, causing a high flood in the Severn Valley. There was no drought.

CHELTENHAM, HEATH LODGE.—R above the average, chiefly on account of the wetness of February and the unusual fall of 2·43 in. on December 30th, which was the largest for forty-four years.

STOW-ON-THE-WOLD, ODDINGTON.—The wettest year since the record commenced in 1892, February being unusually wet throughout, and December wet owing to the very heavy and continuous R on 30th, which caused considerable floods. September, on the other hand, was unusually dry.

ROSS, THE GRAIG.—R 1·92 in. above the average, and the largest fall since 1886. Nearly half the total, or 16 inches fell during February, October and December. The wettest February since 1833, and, with four exceptions, the wettest December since 1818. The driest September, except 1865, on record.

WEOBLEY, DILWYN.—R 1·48 in. higher than in any previous year in thirteen years' record, and 6·72 in. above the average of twelve years. The fall on December 30th was the highest on any day during that time.

KINGTON, GRAVEL HILL.—A very wet year. R and rainy days 24 per cent. in excess of the average.

PEMBRIDGE, MARSTON.—A wet year on the whole, the R being 5·10 in. above the average. Part of July was very hot, and December was wet.

LUDLOW, ASHFORD HOUSE.—R six inches above the average of nine years. The first two and last three months produced 20·77 in. out of the total of 34·89 in.; there were no less than fifty days during the

year on which more than .25 in. fell, and thirteen on which .50 in., or more, fell. There were several long spells of wet weather, all January, from February 13th to 28th, from July 27th to August 9th, from October 24th to November 16th, and from November 23rd to the end of December, the fall during the last-mentioned period being 6.50 in.

MIDDLETON CHIRBURY.—R 2.72 in., and rainy days twenty-one, above the average of twenty-one years.

UPTON-ON-SEVERN, THE EADES.—The year was chiefly remarkable for frequent TSS in the summer months. September was unusually dry. The R in December was much above the average.

LEIGH LODGE.—A record year as regards the fall of R and number of rainy days. On no other occasion since observations began in 1895 has there been such a fall as the 2.30 in. on December 30th.

WORCESTER, BELMONT ROAD.—The wettest months were January, February, May, June, August, October and December. December was the wettest since 1876, when the record began. The fall of 2.48 in. on December 30th, was the heaviest ever measured. Remarkable prevalence of fog in October, November and December.

TENBURY, ROCHFORD.—The R exceeds the average of the five years 1895–99 by 5.91 in. An excessive fall of 2.17 in. on December 30th.

REDDITCH, PROSPECT HILL.—R 5.02 in. above the average; it was, however, exceeded in 1882, 1891, and slightly in 1881.

ALVECHURCH, THE UPLANDS.—The highest R since 1891. From October 22nd to November 17th, R fell on twenty-seven consecutive days. The fall of 2.64 in. on December 30th was the heaviest fall on record in this neighbourhood.

LONG COMPTON, WESTON PARK.—The greatest R of any year in the last eighteen, but as it was made up chiefly of very heavy falls much of it ran off. The fall of 2.33 in. on December 30th had never been equalled before.

DIVISION VII.—NORTH MIDLAND COUNTIES.

GUMLEY RECTORY.—The greatest R and greatest number of rainy days since the record commenced.

TOLETHORPE HALL.—Sufficient R, being about the average, but the worst year for agriculture for at least fifty years.

STOCKEN HALL.—September was the driest month. August was very wet, and 2.20 in. of R fell on December 30th.

GRANTHAM, LITTLE PONTON RECTORY.—No S in the winter. Very mild and damp. The fall of 2·20 in. on December 30th was the heaviest yet measured in twenty-four hours.

LEADENHAM RECTORY.—Very wet; R 3·00 in. above the average. The fall on December 30th was the largest for at least eight years.

KIRKSTEAD.—The largest R since records commenced in 1888.

HORNCastle, REVESBY.—One of the best years as regards quantity of R for available water supply, although the hot weather in July followed by the heavy R of the beginning of August made the quality of the water one of the worst on record.

SPILSBY, BOSTON ROAD.—R 4·79 in. above the average of ten years. R in February in excess of any in twenty-five years. June, August, November and December were also above the average. The fall of 2·31 in. on December 30th was the heaviest ever recorded.

YARBOROUGH, THE RECTORY.—March and April were the driest months remembered for many years.

PLUMTREE, NORMANTON-ON-WOLDS.—R 39·5 per cent., and rainy days 16·9 per cent., above the average of nine years. Absolute drought from September 1st to 17th, and partial drought from August 27th to September 25th with ·26 in. of R in thirty days.

NOTTINGHAM, CARISBROOK HOUSE.—A signally wet year, nearly approaching the fall of 31·70 in. in 1886. The heaviest fall was 1·80 in. on December 30th when it rained without ceasing for fourteen hours.

STRELLEY HALL.—R 6·75 in. above the average. Much the wettest year since 1891, and with the exception of that year the wettest since 1886.

SOUTHWELL, WESTHORPE HALL.—The oak was in leaf before the ash. All trees were late in putting out their leaves. August was very wet, but it did not damage the harvest to any extent. The R did a great deal of good to the turnip crop, which had suffered much from drought in April, May and early June.

WORKSOP, HODSOCK PRIORY.—Warm on the whole with normal sunshine, and R rather above the average. January was mild and rather wet. February cold with deep S and heavy R. March was also cold but dry. April and June were mild and fine separated by a very dull May. July was hot and bright, but the first fortnight of August was wet and stormy. The autumn was mild with unusually little frost and no S. December was exceptionally warm. The harvest was early but the corn crops were light, the hay crop was fair, and it was a good year for fruit.

CHELLASTON.—January, February, June, July, August, October and December, were all remarkable for heavy R; March and September were the only really dry months. The summer will be long remembered for its very violent and destructive TSS, and also for a few great falls in short periods. Temp. was above the average in January, June, July, September, October, November, and remarkably so in December. April, May and August had about the average temp., and February and March were cold.

HAZELWOOD, CHEVIN.—R 9·40 in. above the average of fourteen years. The fall of 1·65 in. on December 30th, was the greatest since June 29th, 1892, when 3·84 in. fell.

GLOSSOP HALL.—R 2·00 in. above the average of ten years, and the heaviest since 1892. September was the driest month and January the wettest.

DIVISION VIII.—NORTH WESTERN COUNTIES.

CHESTER, CHRISTLETON HALL.—The year opened mild with cold winds. Continuous frost with snow during the first half of February, with min. temp. 11° on 7th. The first half of March was fine; cold winds and frost in the second half. Spring was dry with cold winds. Destructive frost on April 25th. Summer was dry to the end of July. The shade temp. reached 88° on July 19th and 24th. August proved the wettest month, with 5·72 in.; and September the driest, with only ·84 in. Autumn commenced very stormy, with frequent showers, but no sharp frosts.

NESTON, HINDERTON.—R about 7 per cent. above the average of thirty-one years. About a third of the total fell in August and October.

KNUTSFORD.—January and February were remarkable for uniformity of R. March, April and May were dry. September was a lovely month. On December 28th a gale occurred resembling that which wrecked the Tay Bridge on almost the same date in 1879. R fell on half the days of the year.

AUGHTON SPRINGS.—A dull, cold year, with a very mild, damp winter. A large tract of potatoes was severely frost-bitten on September 3rd.

SOUTHPORT, HESKETH PARK.—Somewhat warm and sunny, with a low mean atmospheric pressure. Hot in July, remarkably mild in December, and mild or warm in January, October and November; rather cold in February and March. Sunny in July and August, and

exceptionally so in September; dull in March and May. Dry in March and September, and very dry in July; wet in January and February, and unusually so in August. Calm in March; stormy in October and December. Mean temp. of the year $1^{\circ}2$ above the average. Total duration of bright sunshine 45 hours above the average. R materially in excess of the mean for the past few years, but nevertheless $\cdot43$ in. below the average of twenty-five years.

HASLINGDEN VICARAGE.—The heaviest R since 1891, and a great number of rainy days. January had an almost unprecedented record of R and S. From the middle of September to the end of the year there was a period of almost continuous R, during which, out of 105 days, R fell on 85.

ST. MICHAEL'S-ON-WYRE VICARAGE.—The driest March and wettest October ever recorded here. A very early harvest.

CHATBURN, MIDDLEWOOD.—R $5\cdot45$ in. above the average of eleven years.

HAMPSON-IN-ELLEL.—A feature of the year was the drought for fifteen days from the end of February to nearly the middle of March, and the small fall later in the month. May and September also had R much below the average. On the other hand, the falls in August, October and December were unusually heavy. R fell on the average on four days in every week.

ARKHOLME, STORR'S HALL.—R five inches above the average, caused by heavy falls in August, October and December. The heat in July, coupled with frequent TSS in the early summer, gave an excellent crop of grass, notwithstanding the late, dry and cold spring, there being no signs of life in trees or hedges till the middle of April. January, November and December were unusually mild.

GRANGE-OVER-SANDS.—There were only fifty-one sunless days; in the four months April to July there were only two days without bright sunshine. The total for the year was $1618\cdot5$ hours, or $43\cdot5$ hours less than the average of eight years.

CARTMEL, BROUGHTON HALL.—R above the average of thirty-two years. Especially light R in March, and heavy in October and December. An inch or more in twenty-four hours fell on seven occasions.

CARTMEL FELL VICARAGE.—The period between September 28th and the end of the year was abnormally wet, with a fall of $31\cdot55$ in. On seventeen days during the year more than an inch of R fell, and in early October, within the limits of a week, more than an inch fell on three days. The S of February was very heavy, many of the roads having a uniform depth of from 15 to 18 inches.

DIVISION IX.—YORKSHIRE.

LANGSETT MOOR, PIKE LOWE.—There was no week without R. An inch or more of R fell on twenty-three days.

WATH-UPON-DEARNE, CHAPEL STREET.—R above the average, and the greatest since 1886. August was the wettest month, and September the driest. The longest drought was fifteen days ending September 15th. There were seventeen TSS, the first being on June 7th, and the last on October 10th. It was a mild year; the last frost of winter was on April 25th, and the first after the autumn on December 23rd. Mean annual temp. $46^{\circ}2$. S fell on eighteen days. Duration of sunshine 1,345 hours.

MELTHAM, HAREWOOD LODGE.—R about 10 per cent. above the average, and greater than in any year since 1894. August was very wet and September very dry. The fifth consecutive warm year; temp. $1^{\circ}2$ above the average of ten years, and exactly equal to 1899. Both July and December were the warmest in the same period. The last quarter was almost without frost in the shade, there being only seven slightly frosty nights. TSS in the summer months were very frequent.

CHAPELTHORPE, CRIGGLESTONE.—August was the wettest for more than five years, and September the driest month for many years.

WAKEFIELD, STANLEY GRANGE.—A wet year, the R being 4.65 in. above the average. January was very dull. Sixteen inches of S fell from February 10th to 16th, and drifts were several feet deep. Absolute drought prevailed from March 2nd to 15th. On April 22nd the max. shade temp. reached $76^{\circ}0$, which was the highest during April for many years. A partial drought for thirty days ended on June 18th. R above the average in July, also in August, which was very wet. September was warm and dry, partial drought for thirty-four days ending on 30th. November was dull and damp, and December very mild, with mean temp. $8^{\circ}4$ above the average.

HALIFAX, HALL INGS.—A wet year; R 4.71 in. above the average of ten years. January, February, October, November and December had each twenty or more rainy days. August was the wettest month, with 6.30 in. of R.

HEBDEN BRIDGE, FALLING ROYD.—The spring was backward, with very little sunshine in April, May and June. The last three months were very dull, with seventy rainy days out of ninety-two, but no S except one slight shower in October. On account of the

great mildness many plants were flowering quite beyond their usual season.

LEEDS, OLIVER HILL, HORSFORTH.—The dryness of March and September was notable. December was very windy, but with no S. S fell on three days in January, and nine in both February and March.

ILKLEY, EATON ROAD.—R about nine inches above the average. The year was chiefly remarkable for the heavy S in February, the average depth on 15th being two feet ; the violent TS and flood on July 12th, and the remarkably mild December, when the mean temp. was 44°·1.

SLAIDBURN, WHITEHOLME.—R 3·65 in. more than the average of eleven years. The fall of 2·16 in. on January 6th, is unprecedented.

NUN MONKTON.—January and February were very wet, but warm. Frost in January on eighteen nights, in February on twenty-one, in March on fourteen nights, and in April on seven. S several times in February, and floods on the Ouse about the 26th. R and flood on August 4th. Frost in November on seven nights, and in December on five nights.

HARROGATE, HARLOW HILL.—The wettest year for at least twenty, and the greatest number of rainy days for many years. The wettest February, and with two exceptions the wettest November, during twenty years. Duration of sunshine 1,955 hours.

KNARESBOROUGH, CONYNGHAM HALL.—A very cold, sunless, spring, a warm, growing summer, and a very wet November.

KNARESBOROUGH, FARNHAM.—The chief feature was the very wet February, the wettest for thirty years. From September 15th to the end of the year it was constantly wet, raining on twenty-four days in October, and twenty-seven in November. Average min. temp. on grass for February 27°·1.

THIXENDALE.—R 4·50 in. above the average of ten years. February and March were very severe wintry months, making garden operations very late. They were further delayed by a cold April, when the mean min. temp. was 30°·6. There was much excessive heat in summer, but the weather was very variable. Fine harvesting weather in September. The latter end of the year was remarkably mild.

BALDERSBY.—R 7·74 in. above the average of ten years. The unusual amount in February was owing to heavy S. Vegetation was three weeks behindhand in April, by reason of the cold weather.

November 3rd was the first of forty-two consecutive days on which R fell.

BEDALE, BURNESTON.—The wettest of the last thirteen years.

AYSGARTH VICARAGE.—R constant, but not always heavy. October, November and December were very wet.

LEYBURN, BOLTON HALL.—R 4·55 in. above the average of twenty-three years. The number of rainy days was excessive, and there were also many sunless days. The last quarter was most unpleasant, the ground being in a constant state of saturation.

RAVENSCAR.—A wet year. In February there was a flood, following a severe snowstorm. August was very wet, foggy and cold.

INGLEBY MANOR.—R seven inches above the average of eighteen years. The fall of 3·27 in. on August 3rd exceeded by nearly an inch the greatest previously recorded. The blizzard of February 15th, and the heavy S of October 20th, caused enormous damage to trees.

DIVISION X.—NORTHERN COUNTIES.

DARLINGTON, CLEVELAND PARADE.—R 7·25 in. above the average of ten years. The three wettest months were February, August and October, and the driest September.

DARLINGTON, PUBLIC PARK.—The heaviest R for some years, being about ten inches above the average. Heavy R and floods in February, August and October.

SUNDERLAND, WEST HENDON HOUSE.—The wettest year (R 36 per cent. above average of thirty years), except 1872, since the record began in 1859. R much exceeded 1·00 in. on four days; the max. fall of 3·28 in. on October 26th was the greatest recorded during sixty-five years. No droughts, either absolute or partial, were recorded. Precipitation was measured on 273 days, on 24 of which S fell, reaching a maximum depth of 12 inches on February 11th. Cloud was above the average in every month except February, but fog was not above the average. Solar halos were not so frequent as usual, though thirteen were observed in October. There was a marked excess of W. winds, especially in April and September, and a decided deficiency of S.W. winds throughout the year. Most rain fell with N. wind in proportion to the time it blew, and least with W. wind. The alternation of land and sea breezes was observed on an unusually large number of days, especially in July and March. Wind force was above the average, especially in April, May, August and December.

GATESHEAD, EIGHTON COTTAGE.—The largest R in twenty years.

NEWCASTLE, CLIFTON ROAD.—R 9·78 in. above the average, this being the wettest year since 1872, when 41·56 in. fell. There were no long dry periods, the longest being from December 9th to 25th.

NEWCASTLE, TOWN MOOR.—R 10·80 in. above, and rainy days 2 below, the average of thirty-three years. The greatest R since 1872, when 41·49 in. fell.

NEWCASTLE, WELLBURN, JESMOND.—R the greatest recorded in any year except 1872.

HOWICK HALL.—R about 8·00 in. above the average. February and March were remarkable for large quantities of S. The later months, with the exception of September, were excessively wet and mild, but no S fell.

PAWSTON [COLDSTREAM].—Principally remarkable for the unprecedented storm in February, and the mildness of autumn, there being practically no frost. The wettest year since observations commenced, R 10·37 in. above the average of twenty-six years.

MILLOM, LEYFIELD.—R 6·66 in., and rainy days thirty-eight, above the average of ten years. The heaviest R in eleven years.

COCKERMOUTH, ULLOCK.—R 9·20 in. above the average. The R and rainy days were the greatest since the record commenced. The fall of 9·76 in. in August, and of 10·07 in. in December, were the largest since the record commenced. On the morning of December 20th, there occurred one of the highest floods for thirty years.

COCKERMOUTH, BROUGHTON GRANGE.—R about 8·00 in. above the average of twenty-seven years, and the heaviest since 1887.

BASSENTHWAITE, ARMATHWAITE HALL.—R considerably above the average. No droughts. Very heavy R on October 6th, doing considerable damage.

BRAMPTON, DENTON HOUSE.—Exceptionally wet, with thirty-one rainy days and 5·41 in. of R more than the average of 1890-9. Grass was plentiful, and the crop of hay abundant, although much of it was spoiled by rain.

KIRKBY LONSDALE.—The R of March was the lightest, and that of October the heaviest, ever recorded. Until October the total fall was under the average, but the R in the last three months was so heavy that it brought the year's total to three inches above the average.

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

LLANFRECHFA GRANGE.—January was mild with no frost. February was extraordinarily wet but with some frost. Very little R fell in April causing oats and barley to be a light crop, but they were well harvested. Summer was hot with very little T and L. Heavy gales and much R characterised December.

MONMOUTH, SCHOOL HOUSE.—January was less cold than the two following months. One snap of cold occurred in February, and a little S in March. There was much cloudy weather, especially in spring, which was late. A very beautiful and hot July was followed by wet weather from July 30th to August 10th, another wet spell took place in the middle of August; then six weeks were dry. Autumn was damp rather than wet, till December, and very mild.

ABERGAVENNY, DYNE HOUSE.—A dry spring after February, but fruitful; apples, pears and plums set and matured well. The most remarkable phenomena were the heavy R and the rapidly rising and subsiding gales of the last week of the year.

LLANVIHANGEL COURT.—R 7·66 in. above the average of 12 years; but except for August the months from March to September were dry and fine. During the summer and early autumn the temp. was low, whereas January and December were unusually warm.

COWBRIDGE, FONMON CASTLE.—R slightly in excess of the average, and very unequally distributed. January, February, October, November and December were very wet; the rest of the year was decidedly dry excepting August, which was moderately wet. November had the greatest R and July the smallest. The only S fell in February and March.

OYSTERMOUTH, NEWTON.—January and February were wet. March, April, May, July and September were finer than usual. June rather wet, and October, November and December very wet but mild. On January 1st, 1901, mignonette and roses were still blooming.

YSTALYFERA, WERN SCHOOLS.—January, February and March were cold with more than the average fall of S. February and March were cloudy and ungenial but dry. From April to September the weather was fairly good, resulting in a fairly good and plentiful harvest. October, November and December were very mild and wet, especially December. Blackbirds were warbling throughout the month. Honeysuckle was in full leaf on New Year's Day, 1901.

CARMARTHEN, THE FRIARY.—Summer was wet and showery, and autumn and winter had more R than usual.

LLANDOVERY TONN.—Extremely wet, but more remarkable for long periods of wet weather than for great falls in twenty-four hours.

ST. DAVID'S.—Weather unsettled. The R very heavy, rendering it difficult to secure the corn crops, which proved to be not of first-rate quality. January, February and December were the wettest and most stormy months.

STRATA FLORIDA, HAFOD.—After a wet winter came a spring unusually rich in blossom. Oaks, beeches and crabs bore fruit, not a common event in this barren and mountainous region. The succeeding winter was unusually mild and open.

CRICKHOWELL, GWERNVALE.—R above the average. September began very dry, only .07 in. falling on the first twenty-three days. The last three months were remarkable for the amount of R and the number of rainy days, 19.70 in. falling on sixty-two days out of ninety-two. The heavy R saturated the land, and springs and wells were fuller at the end than they had been for some years.

ST. ASAPH, NANTLLYS.—No absolute drought, the driest period being from September 1st to 28th. The fall of 2.03 in. on August 3rd was the greatest in twenty-four hours since August, 1879.

GRESFORD, TREWYTHEN.—The R was greater than that of any year since 1894.

ROSSETT, TREVALYN HALL.—R nearly 2.50 in. below the average. The monthly totals were below the mean in every month except January, February, August and October. August was the wettest month and September the driest. February was the coldest month; December was remarkably mild.

LLANGERNIEW, HAFODUNOS.—R fell on every day in January except 25th and 29th. Summer was very dry and a water famine almost occurred. The R on August 3rd and 7th was abnormally heavy.

DENBIGH, GARN.—R 6.21 in., and rainy days twenty-one, above the average. The fall on August 3rd, when 3.25 in. fell between 9 a.m. and 6 p.m., and 3.50 in. in the twenty-four hours, was the greatest for at least eighteen years.

DOUGLAS, WOODVILLE.—A wet year with R 4.50 in. above the average of the last ten years; only five other years in the last twenty-six have had as high a fall. The spring was backward, March and May in particular being unseasonably cold, and except for the second half of July there was little summer weather. August maintained its evil reputation for excessive rain, but September was fine on the whole.

ST. MARTIN'S, LES BLANCHES.—R fell every day from December 21st, 1899, to February 6th, 1900. Absolute drought prevailed from September 3rd to 23rd, and partial drought from July 3rd to August 2nd, '29 in. of R falling in thirty-one days.

SCOTLAND.

DIVISION XII.—SOUTHERN COUNTIES.

WHITHORN, CUTROACH.—The R was remarkably heavy, being 5·13 in. above the average of five years. With the exception of March, when little over half-an-inch fell, mostly in the form of S, the distribution was comparatively equable, there being 200 rainy days in the year, with few periods of over a week without some R, and an almost entire absence of heavy falls.

DALBEATTIE, COLVEND MANSE.—The heaviest R in the last thirty or forty years, and especially heavy during August and December.

DALBEATTIE, LITTLE RICHORN.—R above the average. March was drier than usual. The autumn was very wet. No frost except on four mornings in November.

DUMFRIES, IVY BANK.—R about eleven inches above the average, and the heaviest since observations were begun in 1886. The wettest months were August and December, the latter being the wettest December on record.

HAWICK, BRANXHOLME.—Mild, with much R, but on the whole suitable for pastoral farming.

LILLIESLEAF, RIDDELL.—Excessively bad and wet weather, with much wind, R, T and L. The harvest, which is usually best in wet seasons, was not good, having short straw and light ears, but it was marvellously well got in, considering the R. Good growing weather in April and May, but cold and wet checked the growth afterwards. At harvest time, though R was excessive, there was always plenty of wind.

MELROSE ASYLUM.—R 13·94 in., and rainy days thirteen, above the average of eighteen years. The wettest year of any covered by the records, the R being just double that of 1887, the driest year on record.

DIVISION XIII.—SOUTH EASTERN COUNTIES.

EARLSTON, COWDENKNOWES.—The greatest R in seventeen years.

WEST FOULDEN.—The wettest year since 1877.

LONGFORMACUS, RAWBURN.—The wettest year on record since 1885.

DRUMMORE.—S fell on eight days. August was the wettest month, and May the driest.

EDINBURGH, BLACKET PLACE.—The wettest year since 1877. The last quarter was exceptionally rainy, when 14·72 in. of R fell. Bright sunshine was unusually deficient, only 1,015 hours being recorded.

NETHER PARKLEY.—R 11·90 in. above the average of fifty years. The harvest in the upland districts was very late, and a large quantity of the grain was spoiled. Summer was very sunless.

DIVISION XIV.—SOUTH WESTERN COUNTIES.

HAMILTON, ARDENCLUTHA.—R 11·62 in., or 35 per cent. greater than the average of eleven years. The second half was phenomenally wet, having more R than either of the entire years 1889, or 1896. Crops in some of the high-lying parts rotted in the ground.

GIRVAN, GLENDOUNE GARDENS.—Dull, damp and unfavourable as a whole for general outdoor work. The absence of sunshine was noticeable, but there was abnormally high temp.

LOCHWINNOCH, GARTHLAND.—Wet ; bad for hay, and for those crops which were not harvested early. There were twenty days on which 1·00 in. of R, and upwards, fell.

DIVISION XV.—WEST MIDLAND COUNTIES.

DUMBARTON, LEVEN SHIPYARD.—The greatest year's R since observations commenced in 1881. The fall of 2·40 in. on June 24th was the greatest in twenty-four hours ever observed. The highest tide since 1882 accompanied the storm on the night of December 20th.

STRATHBLANE, CRAIGEND CASTLE.—The spring was fair and promised well, but since June the rainfall has been the heaviest for the last ten years, a few fine days, however, enabled the harvest to be got in, though some places suffered severely.

STIRLING, POLMAISE GARDENS.—There were few days entirely dry after the third week in September.

BUCHLYVIE, THE MANSE.—Unsettled, rainy, and, especially in the closing months, sunless. R 11·57 in., and rainy days thirty-two, above the average of eleven years, and the greatest in that period. In the three closing months 23·65 in. of R fell. The R in March was considerably below the average, that of August and September slightly below, and the other months above, the average.

LOCH ECK, BENMORE.—Exceptionally wet, especially during the last two months, when R fell nearly every day.

INVERARAY, NEWTOWN.—The year was felt to be very wet, for although the R was not on the whole excessive, there was little sun, and no summer, except in the first week of June.

BALLACHULISH, ARDSHEAL.—R about ten inches, and wet days five, more than the average. R in December three inches greater than any monthly fall previously recorded.

DIVISION XVI.—EAST MIDLAND COUNTIES.

BLAIRINGONE [DOLLAR].—The wettest year observed at this station. Nine months of the year exceeded their averages. March, August and September were slightly under the average.

KINROSS, GELLYBANK.—Cold and dry in March and May. Extremely bad for harvest from the end of September to nearly the end of October. There were only five dry days in November and none in December.

STRATHMIGLO.—The first two and last three months were very wet. The fall to the end of February was 2·39 in. above the average, this diminished to ·20 in. at the end of June, rose to 1·97 in. at the end of August., fell to 1·63 in. in September and increased to 6·50 in. at the end of the year.

DOUNE, GARTINCABER.—The year was characterised by its excessive R, especially during the last three months, the total, 49·60 in., being 3·47 in. in excess of any previous record. The temp. was greatly below the average throughout. December was marked by almost continuous gales of wind from S.W. to N.W.

CALLANDER, THE GART.—Very wet, chilly and sunless. In the week ending September 29th 3·28 in. of R fell, in that ending November 10th 3·38 in. and in the week ending December 15th 4·46 in.

COUPAR ANGUS STATION.—The highest yearly R ever recorded. On six days 1·00 in. or more was registered. The summer was cold,

and the autumn and last months, particularly December, were very wet and mild.

ARBROATH, DISHLAND HILL.—R 4·48 in. above the average of eleven years, and the greatest in that period.

DIVISION XVII.—NORTH EASTERN COUNTIES.

FETTERCAIRN, THE BURN.—The heaviest R since 1882 and more than 9·00 in. over the average of twenty years. The leading feature was the want of sunshine ; when not raining it was scarcely ever bright for any length of time, while the ground reeked with damp almost continuously. During the last three months there were very few days without R or heavy clouds.

ELLON, KERLUCK.—Rather dismal weather throughout. A marked feature was the want of sunshine and drying breezes, so the land lay mostly in a saturated condition.

CRAIGELLACHIE, WESTER ELCHIES SCHOOL.—Rainy days forty-five in excess of the average. A great contrast was shown between the forty-six days from May 1st to the middle of June, when 1·08 in. of R fell, and the forty-six days from the middle of June to the end of July, when 7·73 in. fell.

KINLOSS.—The R of the last six months was the most persistent for many years.

CAWDOR, BUDGATE.—The wettest year since the record began in 1868.

DIVISION XVIII.—NORTH WESTERN COUNTIES.

KINTAIL, THE GLEBE.—The weather was normal with the exception of December, which was unusually wet.

ALNESS, ARDROSS CASTLE.—Very wet, especially during the last three months. On August 22nd there was an exceptionally heavy fall of 2·49 in.

GLENELG.—February, March and November were drier than usual, and October and December wetter. More than an inch of R in twenty-four hours fell on eleven days, four of which were in December.

SKYE, RAASAY HOUSE.—As a whole dull with frequent R. Severe frost and snow in February and March, with a burst of warm days at the close of April. Summer was cloudy and dull. December was very wet.

DIVISION XIX.—NORTHERN COUNTIES.

GOLSPIE, DUNROBIN CASTLE.—The early months were normal, but from July onwards it was unusually wet. Hay and corn crops were secured in fairly good order, better than in the midlands of Scotland. Small fruits were good. There was no scarcity of water and no period of drought.

LOGH NAVER, ALTNAHARRA.—Notable for the heavy R during the last three months.

BETTYHILL.—From the beginning of September to the end of the year it was exceptionally wet with but few dry days in succession.

IRELAND.

DIVISION XX.—MUNSTER.

CORK, WELLESLEY TERRACE.—R about the average. A very cold year, ten months being below the average. Mean temp. $47^{\circ}9$, or $2^{\circ}1$ below the average. The winter of 1899—1900 was the coldest for at least eighteen years, being $3^{\circ}7$ below the general winter mean.

WATERFORD, BROOK LODGE.—R 7.69 in. above the average of fifty years.

CLONMEL, BRUCE VILLA.—A wet year. R 1.25 in. above the average.

DERRY CASTLE [KILLALOE].—Remarkably wet, the R having only twice been exceeded in twenty-two years. R 19.5 per cent above, and rainy days 1, or 0.7 per cent. above, the average of the decade. Seven months were excessively wet, two nearly normal, and three very dry, March being the driest on record. The closing quarter was continuously wet, there being only seventeen rainless days from September 20th to December 31st.

NENAGH, CASTLE LOUGH.—Very wet; the amount of R has only been equalled on three previous occasions since observations commenced here.

LIMERICK, ROXBOROUGH.—A dripping year; the heaviest R since the register commenced, twelve years ago, except 1897. The heavy R in August, accompanied by L, damaged the potato crop severely.

BROADFORD, HURDLESTOWN.—Very wet. R 9.40 in., and rainy days 12, above the average of fifteen years.

MILTOWN MALBAY.—The R exceeded the average of twenty-five years by twelve inches. During the last three months the R was almost incessant, there being only six dry days in October, five in November and one in December; whilst from November 10th to the end of December there were, with one exception, forty-one consecutive rainy days, which is unprecedented.

DIVISION XXI.—LEINSTER.

GRAIGUE, BRANDONDALE.—Very wet, the R being 9·32 in. above the average and the greatest in sixteen years, except 1897. March was remarkably dry, having only one rainy day. June and July were exceptionally wet, June having only eight days without R and a fall 3·39 in. above the average (the heaviest in sixteen years); that of July was 2·34 in. above the average. November was also exceptional, the fall being 5·63 in. above the average and 2·37 in. above the previous highest.

KILKENNY, SION VILLA.—Apart from a heavy flood on New Year's Day and the R throughout January, the first three months were seasonable and fairly fine, followed by two months of average weather. June was exceptionally wet, the R exceeding the average of ten years by 2·11 in. July and August were changeable and unsettled, while September was for the most part very fine, an absolute drought being recorded. The remaining three months were cold, wet and very stormy.

ABBEY LEIX, BLANDSFORT.—The wettest year since observations were commenced in 1874; R 11·81 in. above the average of twenty-six years, and number of rainy days 48 above the average. The driest year, 1887, had 10·55 in. less R than the average, which is 35·14 in.

STRAFFAN HOUSE.—The wettest year during twenty-five years' observations. Spring was cold and late, and summer and autumn very wet, but warm, although there was little sunshine at any time. The falls for June, July and August were remarkable.

GLEN-NA-SMOEL WATER WORKS.—The wettest year since the record commenced in 1885. An inch or more fell on thirteen days. In August and November 21·74 in. of R fell.

BALLYBRACK, STREAMVILLE.—A wet year, with R 4·78 in. above the average of twenty-three years, and the greatest since the record commenced in 1877. There was very little frost and a small amount of sunshine. The total R from January to August, inclusive, was

24·15 in. This was only exceeded by the fall of the first eight months of 1879, when 25·51 in. fell. The excessive R of 1879 was attended with much more serious consequences to agriculture than that of 1900; still potatoes were very much injured, much corn was laid, all crops were very late, and hay, though plentiful, was badly saved.

KILLINEY, CLONEEVIN.—The wettest year since the record commenced, the R being 8·04 in., and number of rainy days twenty-five, above the average of fifteen years (1885-99). August was the wettest month, and September the driest, absolute drought for fifteen days occurring from September 1st to 15th, and partial drought for twenty-three days, with only ·04 in. of R, from August 25th to September 16th. S, sleet or H on eighteen days.

DONNYBROOK, SEAVIEW TERRACE.—The summer was unusually rainy. Partial floods occurred early in August, and also in November.

DUBLIN, FITZWILLIAM SQUARE.—R 6·64 in., and rainy days twenty-two, above the average of twenty-five years, and only twice exceeded since the observations were started. Falls exceeding 1·00 in. were recorded on four occasions. S or sleet fell on twenty-one days, and H on thirty-two; and fog was noted on fifty-five occasions.

DIVISION XXII.—CONNAUGHT.

BALLINASLOE.—The wettest year since records commenced in 1872.

CONG, THE GLEBE.—Hopelessly wet in the early spring and early harvest, but with about a fortnight of fine weather in March and September, which enabled the crops to be sown and reaped. The last three months were especially wet, there being only sixteen days without R.

ACHILL, CORAUN HOUSE.—A year of terrific gales, especially on June 24th, and throughout December. There were no TSS, which is unusual, although out at sea they frequently occurred.

CROSSMOLINA, ENNISCOE.—R 10·92 in. above the average of twenty-six years.

BALLYMOTE, NEW PARK.—The persistency of R in the eight weeks ending November 17th was remarkable. Only on one occasion during the fifty-six days were there two days in succession absolutely without R.

DIVISION XXIII.—ULSTER.

LURGAN, BELLE VUE.—R 5·51 in. above the average of ten years ; an amount only twice exceeded since the record commenced in 1881. March was very dry, and August, October and November very wet.

BELFAST, SPRINGFIELD.—The wettest year since 1886, and the largest number of wet days for a very long time.

ANTRIM, ARDNAVEIGH.—The wettest season yet observed. The longest period without R was from February 6th to 14th.

BALLYNURE, BALLYBOLEY.—No one remembers so wet a year ; R nearly continuous after the middle of September. Great quantities of potatoes were still in the ground on January 14th, 1901, and much corn rotted in the fields, having been out some two months.

BALLYMENA, HARRYVILLE.—R 6·78 in. above the average of twenty years. The wettest year since 1882, when the fall was exactly the same. March was the driest month, and November the wettest.

STEWARTSTOWN, THE SQUARE.—The greatest R since 1877.

BUNCRANA, ROCKFORT.—In the last three months 15·10 in. of R fell, the greatest amount ever recorded in three consecutive months.

HEAVY RAINS IN SHORT PERIODS IN 1900.

ONE of the greatest advantages of a recording rain-gauge of the highest class, *i.e.*, an instrument with a time scale that can be read to minutes, is the facility with which the intensity of rainfall can be measured without any special vigilance on the part of the observer. But such recording gauges are, unfortunately, still few and far between, and most of the 82 records of noteworthy falls in short periods printed in the table this year, are the result of the watchfulness and care of observers with ordinary rain-gauges. The importance of ascertaining the rate of fall of rain scarcely requires to be pointed out, still we think that it is as well to call special attention to it, in the hope that more of those observers who have leisure and inclination may take the matter up. We know very little as yet of the relative frequency of heavy rains in different parts of the British Islands. The following table certainly shows that 68 cases were reported from England, 8 from Scotland, 3 from Ireland, and 3 from Wales; but it would be rash to assume as a consequence that heavy rains are much more frequent in England than in any other parts of the British Islands. What may be fairly assumed is that the observers in England pay rather more attention to this question than their colleagues in the principality, or the other kingdoms; in fact, for every thousand observers we find 26 reporting heavy falls in England, 18 in Scotland, 16 in Ireland, and 12 in Wales. The fact that 63 out of the 81 cases (or 78 per cent.) occurred in the months of June, July and August, of course means no more than that intense rains, which are usually of short duration almost always accompany thunderstorms. During the months, and in the places where thunderstorms are most frequent and severe, heavy rains will be frequent, and severe also.

On examining the returns for the purpose of comparison, with the records of previous years, we observe that while the number of falls dealt with for 1900 is 35 less than for 1899, the number of exceptional falls is greater, being thirteen instead of eleven. The excep-

tional falls, marked with an \times in the table, are those which exceed a total of $\cdot 75$ in. in 15 minutes, $1\cdot 25$ in. in 30 minutes, $1\cdot 80$ in. in an hour, or $2\cdot 20$ in. in two hours, these values having been adopted by Mr. Symons as the result of his experience. The limit above which a fall may be considered "exceptional" is shown by the short curve on the diagram, the longer curve showing the lower limit of the falls that can fairly be described as noteworthy. The most intense rains are usually of the shortest duration, and an intensity which would be very remarkable if it had lasted uniformly for five hours, may be so common as to be unworthy of attention if it lasted only for five minutes.

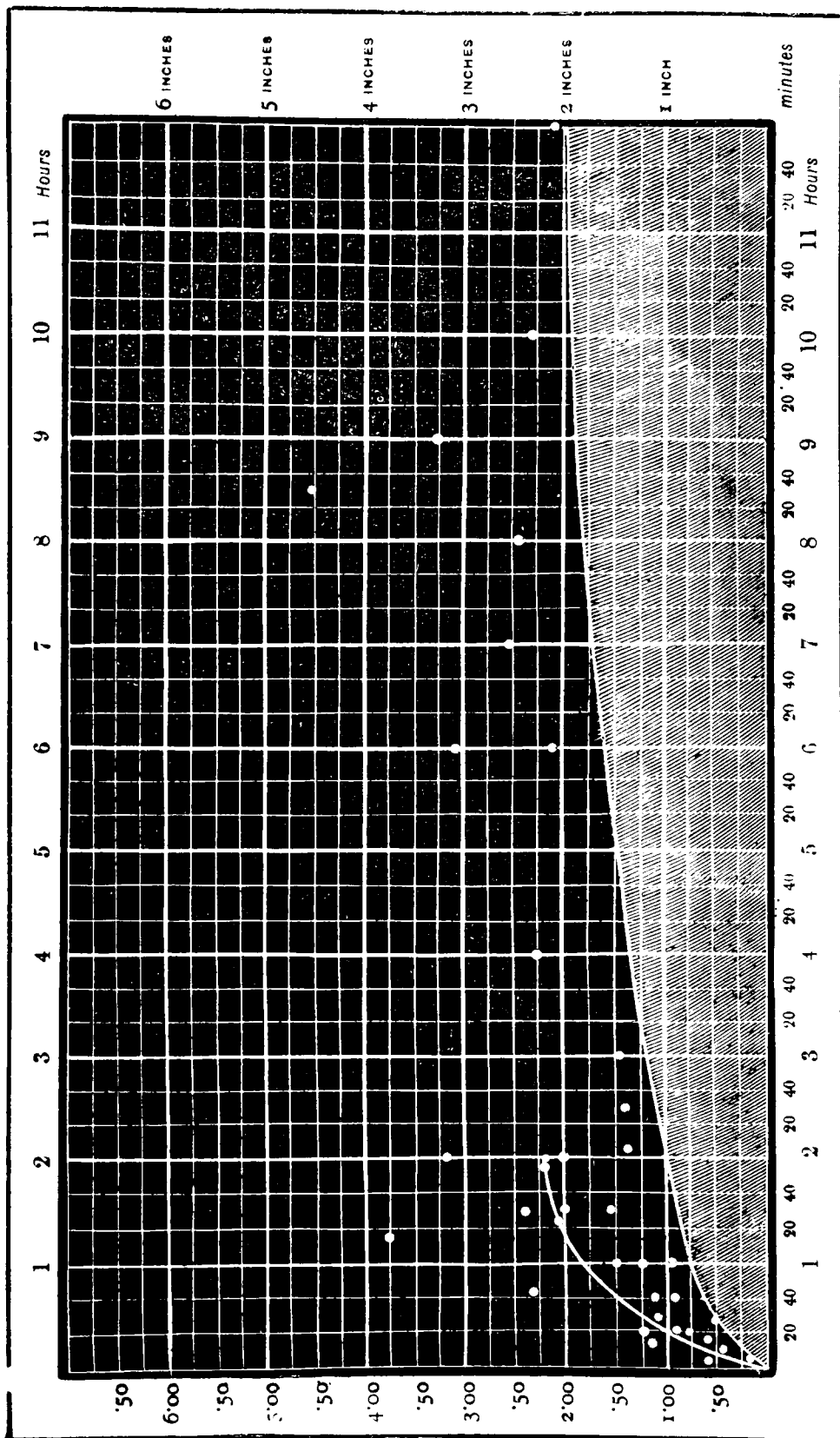
The greatest intensity reported in 1900, irrespective of duration, was $4\cdot 71$ in. per hour. This was the result of $\cdot 55$ in. falling in seven minutes, at Astle Hall, Chelford, Cheshire, on June 12th, and it is closely followed by a rate of $4\cdot 28$ in., the result of $1\cdot 14$ in. falling in sixteen minutes at Rosebank, Berkhamstead, on July 16th. The fall of $1\cdot 25$ in. in twenty minutes, representing an intensity of $3\cdot 75$ in. per hour, recorded in the same storm at Shillington, Bedfordshire, is almost equally remarkable. The most exceptional fall recorded in 1900, is however, that of $3\cdot 75$ in. in seventy-five minutes, during the great storm at Ilkley, on July 12th, the intensity being at the rate of $3\cdot 00$ in. per hour; a higher value than has ever before been recorded in our pages for so long a period. In 1889 it is true a rate of $3\cdot 36$ in. per hour was recorded at Henley-in-Arden, as the result of 65 minutes rain on July 13th, but with this exception, 3 inches of rain per hour has never been recorded for a period of one hour, or more, in any part of the British Islands. We feel pretty certain that rain has many times maintained as great an intensity for an hour or more, but we have no proof of the fact from actual records.

Any of our readers who may possess the records of trustworthy recording gauges, which have not been examined for the intensity of falls in short periods, would find it worth their while—in a scientific sense, for definite knowledge is great gain—to make systematic measurements. We should be very glad to see the results; but we would repeat what Mr. Symons has so often said in these pages, that even the observer with an ordinary rain gauge may render a real service to science by noting the time of the commencement of a heavy shower, and measuring the fall as soon as it is over.

Heavy Falls in Short Periods in 1900.

Date.	Div.	Station.	Amount.	Duration.		Rate per hour.
			in.	hr.	min.	in.
Aug. 1 ...	VI.	King's Heath, Cambridge Rd.	·10	...	2	3·00x
May 3 ...	„	Lifford Sewage Works	·09	..	2	2·70
Oct. 5 ...	„	King's Heath, Cambridge Rd.	·19	...	3	3·80x
„ „ ...	„	Lifford Sewage Works	·18	...	3	3·60x
Dec. 20 ...	„	King's Heath, Cambridge Rd.	·16	...	4	2·40
Aug. 3 ...	„	„ „ „ „	·14	...	4	2·10
June 12 ...	„	„ „ „ „	·13	...	4	1·95
July 3 ...	III.	Wolverton	·24	...	5	2·88
Aug. 7 ...	I.	London, Camden Square	·24	...	5	2·88
„ 21 ...	VIII.	Rochdale, Field Head	·13	...	5	1·56
June 12 ...	„	Chelford, Astle Hall	·55	...	7	4·71x
July 29 ...	I.	London, Camden Square	·44	...	9	2·93
June 20 ...	„	„ „ „ „	·18	...	9	1·20
July 12 ...	XIII.	Drummore	·31	...	10	1·86
„ 16 ...	VIII.	Liverpool, Huyton Vicarage...	·30	...	10	1·80
Aug. 24 ...	VI.	Leamington, Latmos	·43	...	12	2·15
June 11 ...	III.	Winslow, Addington Manor...	·59	...	15	2·36
Oct. 4 ...	VII.	Ashbourne Water Works.....	·45	...	15	1·80
July 16 ...	III.	Amersham, The Plantation ...	·43	...	15	1·72
June 23 ...	XVII.	Aberdeen, Cranford	·40	...	15	1·60
July 28 ...	XXI.	Ballybrack, Streamville	·39	...	15	1·56
„ 16 ...	III.	Berkhampstead, Rosebank ...	1·14	...	16	4·28x
Aug. 23 ...	XIII.	Edinburgh, Blacket Place ...	·62	...	18	2·07
July 16 ...	III.	Shillington	1·25	...	20	3·75x
„ 12 ...	V.	Cothelstone House.....	·96	...	20	2·88
June 12 ...	X.	Workington, Winscales	·80	...	20	2·40
Aug. 20 ...	II.	Betchworth, The Holmes	·62	...	20	1·86
June 12 ...	V.	Taunton, Linden Grove	·46	...	20	1·38
July 28 ...	XXII.	Woodpark [Scariff]	·53	...	27	1·18
„ 3 ...	II.	Horsmonden, Broad Ford Ho.	1·03	...	28	2·21
„ 16 ...	III.	Odsey [Royston].....	1·09	...	30	2·18
„ 9 ...	„	Berkhampstead, Northchurch	1·00	...	30	2·00
„ 16 ...	„	Hitchin, Bancroft	1·00	...	30	2·00
Aug. 21 ...	VIII.	Manchester, Stretford	1·00	...	30	2·00
„ 17 ...	II.	Funtington	·55	...	30	1·10
July 20 ...	VII.	Ashbourne Water Works.....	·53	...	30	1·06
„ 16 ...	VIII.	Liverpool, Huyton Vicarage...	·51	...	30	1·02
June 12 ...	VI.	Cotswold Sanatorium	1·12	...	40	1·68
Aug. 17 ...	II.	Denmark Hill.....	·96	...	40	1·44
„ 20 ...	„	Caterham Valley, Bradenhurst	2·30	...	45	3·07x
„ 21 ...	IV.	Swaffham.....	1·09	...	45	1·45
July 16 ...	III.	Kensworth [Dunstable].....	1·00	...	45	1·33
June 11 ...	„	Blisworth, Grafton House ...	·84	...	45	1·12
Aug. 17 ...	II.	Clapham Park, New Park Rd.	1·50	1	0	1·50
„ 21 ...	VII.	Navenby Rectory	1·25	1	0?	1·25?
July 12 ...	VI.	Ross, The Graig.....	·96	1	0	·96
„ „ ...	IX.	Ilkley	3·75	1	15	3·00x
Aug. 22 ...	X.	Brampton, Denton House.....	·97	1	25	·68
July 12 ...	IX.	Ardsley Reservoir	2·07	1	22	1·51x
„ „ ...	XI.	Llandrindod Wells.....	2·39	1	30	1·59x

HEAVY FALLS IN SHORT PERIODS.



The shaded portion represents falls too numerous to require insertion; the short white curve, extremes rarely exceeded.

Heavy Falls in Short Periods in 1900—continued.

Date.	Div.	Station.	Amount.	Duration.		Rate per hour.
			in.	hr.	min.	in.
July 12 ...	IX.	Leeds, Oliver Hill, Horsforth	2·00	1	30	1·33x
„ „ ...	VII.	Ashbourne Water Works.....	1·58	1	30	1·05
„ „ ...	IX.	Wakefield, Stanley Grange ...	2·17	1	55	1·13x
„ 2 ...	XII.	Glenhead of Trool	3·20	2	0	1·60x
Dec. 11 ...	XV.	Oban, Bragleenbeg	2·16	2	0	1·08x
Aug. 3 ...		Bolton Abbey	2·00?	2	0	1·00?
„ 5 ...	IV.	Burgh Castle Rectory	1·00?	2	0	·50?
„ 5 ...	XII.	Whithorn, Cutroach	·83	2	0	·42
May 8 ...	V.	North Cadbury Rectory	·81	2	0	·41
June 11 ...	VII.	Plumtree, Normanton-on-Wolds...	1·38	2	5	·66
„ „ ...		Kibworth Harcourt	1·45	2	30	·58
July 27-28	XXI.	Templeudigan, Ballindoney...	1·47	3	0?	·49?
„ 20 ...	VII.	Breadsall Priory.....	2·27	4	0	·57
„ 12 ...	IX.	Bradford, Manningham Lodge	3·11	6	0	·52
Feb. 15 ...	XI.	Monmouth, School House.....	2·10	6	0	·35
June 11 ...	VII.	Chellaston	2·56	7	0	·37
Aug. 3 ...	IX.	Middleton-on-the-Wolds	2·44	8	0	·31
Aug. 11 ...	XVIII.	Skye, Strathaird	4·53	8	30	·53
„ 3 ...	XI.	Denbigh, Garn	3·25	9	0	·36
„ 30 ...	XVIII.	Skye, Strathaird	2·30	10	0	·23
„ 3 ...	X.	Newcastle, Clifton Road	2·11	12	0	·18
Dec. 30 & 31	V.	E. Harptree, Harptree Court	2·00	12	0	·17
„ 20 ...	X.	Ambleside, The Stepping Stones	2·56	13	0	·20
„ 30 & 31	VI.	Tewkesbury, Beckford	2·42	13	0	·19
Oct. 26 ...	X.	Ryton-on-Tyne	2·34?	14	0	·17?
Feb. 15 ...	V.	Tavistock, Whitechurch	2·74	15	0	·18
Dec. 30 & 31	VI.	Kenilworth, The Spring	2·85	16	45	·17
„ 30 ...	VI.	Clifton, Pembroke Road	2·27	18	0	·13
Feb. 15 ...	V.	Tavistock, Whitechurch.....	2·97	20	0	·15
Dec. 30 ...	VI.	Lifford Sewage Works	2·50	21	0	·12
„ 30 & 31	VI.	King's Heath, Cambridge Rd.	2·32	21	0	·11
Aug. 3 & 4	X.	Darlington, Hurworth Grange	2·94	24	0	·12

HEAVY FALLS ON RAINFALL DAYS IN 1900.

THIS is a discussion of the wettest days of the year. At each station where daily readings of the rain gauge are made, the highest individual fall for the whole year is selected for consideration. Thus, if say three exceptional rainstorms were experienced in one locality during the year, the record of the severest only would be dealt with in this place, and the others would be ignored. It would thus appear that there is some risk of losing the record of any rain that is not the worst in the year; but that risk is really small. Very heavy rains are usually confined to small and definite localities, and it would be extremely improbable that two should occur in any one year so nearly in the same place as to have their centre of maximum intensity at the same stations. In any case, the figures dealt with here are perfect for the purpose of comparison with those describing the maximum falls (a term conveniently represented by *M*) of previous years.

Amongst nearly 3000 daily observers we cannot expect perfect uniformity either as to the hours of observing, or as to the position and height above ground of the gauges; but a steady approach is being made towards uniformity in all these particulars, and consequently the discussion becomes easier every year, although the number of records to be examined continues to increase. One element of discord comes into special prominence here, and it is one that really need not occur. This is the neglect of Rule IX., which provides for the uniform entry of the fall of rain to the date of the day before the reading is made. For instance, when the heavy fall was registered on the morning of the last day of the year, it ought in every case to have been put down to the date of December 30th, yet not less than 85 observers put it down to December 31st. Had this heavy fall occurred twenty-four hours later than it did, all these observers would have credited it to the year 1901, instead of to 1900, and thus the record in many cases would have given 1900 about three inches too little rain, and 1901 about three inches too much. Such a narrow escape of seriously confusing the records will, we hope, lead to an effort being made by all observers to adhere

strictly to Rule IX., for while the overwhelming majority of correctly entered returns makes it easy to correct divergence from the rule for falls occurring before the last day of a year, we should require to obtain the following year's report before correcting such an error on December 31st.

As usual, only a selection of the maximum falls is discussed, although all of them, amounting to over 2,700, have been copied and examined. The selection is made so as to include all falls equal to, or exceeding, 2·50 in. in the twenty-four hours, thus all great falls of rain are put on record ; but since a much smaller fall than 2·50 in. may be very remarkable and unusual at dry stations, justice is done to these by placing on record also all maximum falls which exceed 7·5 per cent. of the annual amount.

The discussion is divided into two parts—I. THE CHRONICLE, or chronologically arranged commentary on the falls for the year 1900 ; and II. THE ABSTRACT, or general epitome, which may be conveniently used for comparison with other years.

PART I.—CHRONICLE.

JANUARY 1ST.

New Year's Day was the wettest of the year at 16 stations in the south and west of Ireland, and the Outer Hebrides, but only one record claims insertion.

XXI. Rockenham [Waterford] 2·61 in. or 5·4 per cent.

JANUARY 2ND.

A wet day in the east of Scotland, yielding the M at about 50 stations.

XVI. Montroseness 2·60 in. or 7·9 per cent.

JANUARY 6TH.

One of the four really wide-spread heavy rains which occurred during the year. The M was recorded at about 240 stations, scattered over South Wales and the whole of England, except the east coast strip. The number of very heavy falls was surprisingly small, and the rain fell in almost every case during a gale of southerly wind which prevailed over the whole of Great Britain.

V.	Sheepstor Vicarage.....	2·59 in.	or 4·1 per cent.
„	Pentillie Castle	2·50 „	4·5 „
VIII.	Duddon Valley (Seathwaite Vicarage)..	2·56 „	2·8 „
X.	Kirkby Lonsdale (Barbon Manor)	3·73 „	6·4 „
„	(„)	2·93 „	5·1 „
XI.	Scilly (St. Mary's)	2·75 „	8·1 „

JANUARY 23RD.

An isolated M on a day when no readings approaching the remarkable were reported from neighbouring stations.

XVIII. Glenquoich 2·97 in. or 2·7 per cent.

FEBRUARY 2ND.

The M at more than 100 stations in London and the neighbouring counties, extending to a radius of less than 50 miles, due to a heavy snowstorm, which is discussed in the *Met. Mag.* for 1900, pp. 10, 18 and 37. Not one fall reached the limit for insertion here.

FEBRUARY 10TH.

A severe snowstorm, yielding the M at half-a-dozen stations in the north-west of England.

IX. Elland 2·77 in. or 7·3 per cent.

X. Cleator (The Flosh) 2·54 „ 4·4 „

FEBRUARY 15TH.

The most severe snowstorm of a stormy winter month, bringing the M to over 330 stations. A south-easterly gale blew over the whole of the British Islands for the greater part of February 15th and 16th, and terrific blizzards were experienced in Yorkshire. The effect of the snowstorm in blocking roads and destroying telegraph wires is dwelt upon in the *Met. Mag.* for March and April, 1900, pp. 18 and 37, and on account of the difficulty in reading gauges while the storm lasted, there is a little uncertainty as to whether some of the M refer to the 15th or 16th, or are accumulations of several days. Careful consideration of the facts convinces us, however, that practically all over the country the greatest falls are to be attributed to the 15th, but at many stations both days were very snowy. Of the heavy falls cited below we are satisfied that all refer to the 15th, and that they represent the precipitation of that day alone. The uncertainties which beset the measurement of snowfall make it impossible to speak as confidently of the accuracy of the figures as if they applied to rain; however, there is no probability of serious error in the quantities quoted.

The storm was experienced over the whole of Great Britain, and the M was recorded from stations scattered over the whole country, from Land's End to Shetland, except in East Anglia, and the central region of the great storm of December 30th, where the fall, although heavy, was greatly exceeded on the later date.

II.	Morden	2.25 in.	or 9.3 per cent.
V.	Sheepstor (Burrator)	2.50 "	3.9 "
VIII.	Skelwith Fold [Ambleside]	2.55 "	2.9 "
IX.	Leeds (Woodhouse Cliff)	2.63 "	7.7 "
"	Oughtershaw Hall	2.77 "	3.6 "
"	Skipton (Bolton Road, Silsden)	2.57 "	7.2 "
"	Blubberhouses.....	2.72 "	6.1 "
X.	Borrowdale (Grange)	5.06 "	4.9 "
"	Keswick (Deer Close)	2.51 "	3.8 "
"	" (Bank)	2.55 "	4.2 "
"	" (Shu-le-crow)	2.53 "	3.8 "
"	Ambleside (Skelwith Bridge)	2.85 "	2.9 "
"	Dungeon Ghyll	3.38 "	3.0 "
"	Grasmere (Pavement End)	2.84 "	2.9 "
"	Cleator Moor Waterworks	2.88 "	4.6 "
XI.	Abersychan (The Hawthorns)	2.70 "	4.9 "
"	Port Talbot (Margam W.W.)	2.89 "	4.6 "
"	Llwynypia (Glyncornel)	2.94 "	3.1 "
"	Mountain Ash (Maesydderwen)	3.00 "	4.5 "
"	" Darranlas Reservoir ...	2.95 "	4.0 "
"	" Clydach Reservoir	3.44 "	4.0 "
"	Glyncorrrwg	2.80 "	3.0 "
"	Treherbert (Tyn-y-waun)	3.48 "	3.8 "
"	Nanthir Reservoir [Aberdare]	2.71 "	4.2 "
"	Llanderfel (Palé Gardens).....	2.70 "	5.5 "
"	Aberdare (Abernant).....	2.73 "	4.4 "
"	Rhayader.....	2.50 "	5.2 "
XII.	Dalry (Glendarroch)	2.58 "	4.0 "
XIX.	Start Point	3.00 "	9.0 "

FEBRUARY 26TH.

A severe snowstorm, bringing the M to a dozen stations in Yorkshire, but with only one very heavy fall.

IX.	Ravenscar.....	2.75 in.	or 8.4 per cent.
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MAY 21ST.

An unimportant rain, in which half-a-dozen stations in the Lake District recorded their M.

X.	Buttermere (Hassness)	3.70 in.	or 3.2 per cent.
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MAY 23RD.

An insignificant rain, worthy of remark merely for the coincidence that in the corresponding week of the previous year the same station received a quite similar solitary M.

XVIII.	Ushenish	2.60 in.	or 3.0 per cent.
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JUNE 11TH.

Thunderstorms brought the M to about fifty stations in the centre

and north of England on June 11th and 12th; these storms are referred to in the *Met. Mag.* for July, 1900, p. 86.

III.	Thorpe Mandeville [Banbury].....	2·60 in.	or 9·0 per cent.
VI.	Tamworth (Bonehill House).....	2·12 „	7·2 „
„	Whitacre (Birmingham W.W.)	2·50 „	7·6 „
VII.	Chellaston	2·56 „	7·5 „
„	Breadsall Lodge	2·55 „	7·4 „
VIII.	Disley (Lyne Park)	2·58 „	5·1 „

JUNE 14TH.

A wet day in Cumberland, yielding the M at two stations only.

X.	Carlisle Cemetery	2·70 in.	or 6·8 per cent.
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JUNE 25TH.

Thunderstorms on the 24th and 25th produced the M at about forty-five stations in different parts of the country, but mostly in the south-west of Scotland, where the only fall coming within our limits occurred on the 25th.

XV.	Mull of Kintyre.....	2·50 in.	or 4·6 per cent.
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JUNE 28TH.

A remarkably local rain, giving the M at three stations in the far east of London.

IV.	East Ham.....	2·00 in.	or 9·2 per cent.
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JULY 2nd.

Very heavy thunder-showers at four isolated stations in Scotland, the whole of the fall noted below occurring in two hours.

XII.	Glenhead of Trool	3·20 in.	or 3·9 per cent.
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JULY 12TH.

A day characterized by violent thunderstorms in central and northern England, and in Wales, with remarkable hail-showers in many places. The M was recorded at about 65 stations, mainly in Yorkshire, where the cloud-burst on Rombald's Moor was the most intense rainfall phenomenon of the year in any part of England. It was referred to in the *Met. Mag.* for August, 1900, p. 97, and is fully treated in the earlier part of this volume. Other references to the thunderstorms of the 12th will be found in the *Met. Mag.*, vol. 35, pp. 103, 121. With one exception, the following remarkable falls all occurred within the sphere of influence of the downpour on Rombald's Moor, and in most cases represent less than three hours' fall of rain.

IX.	Ackworth (Nostell Priory)	2·17 in.	or 7·7 per cent.
„	Wakefield (Field Head)	2·28 „	7·7 „
„	Bradford (Manningham Lodge)	3·11 „	7·9 „
„	„ (Chellow Dean)	4·00 „	9·2 „
„	„ (Heaton Reservoir)..... <i>o.g.</i>	3·63 „	9·6 „
„	„ („ „)..... <i>n.g.</i>	3·33 „	9·0 „
„	Leeds (Wortley Reservoir)	2·54 „	7·9 „
„	„ (Holbeck)	2·44 „	8·8 „
„	Shipley (Moor Head).....	2·97 „	8·6 „
„	Bingley (Gilstead Filters).....	4·50 „	13·1 „
„	Keighley (The Knowle).....	2·86 „	6·6 „
„	Bingley (Sunnydale)	4·12 „	10·4 „
„	Ilkley	4·01 „	9·6 „
„	„ (Eaton Road)	4·26 „	9·7 „
„	„ (Cherry Bank).....	5·40 „	11·9 „
„	Fewston (Timble Ings).....	2·55 „	5·9 „
„	West End (Rocking Hall)	2·70 „	5·2 „
„	Ardsley Reservoir	2·29 „	7·6 „
„	Hollingley	2·81 „	7·2 „
„	Wakefield (Stanley Grange)	2·21 „	7·7 „
„	Pudsey	3·06 „	8·7 „
XI.	Llandrindod Wells.....	2·69 „	6·6 „

JULY 16TH.

One of the hottest days of the year, relieved by violent thunderstorms, which brought the M to about 16 stations in the counties of Hertford, Bedford and Cambridge.

III.	Biggleswade (Langford Vicarage)	1·91 in.	or 8·5 per cent.
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JULY 20th.

Severe thunder and hailstorms developed in different parts of the country, but the M was recorded only from a score of stations in the eastern and midland counties, and no remarkable falls occurred, though damage by hail and lightning was serious in some places.

VII.	Stretton (Lindway Reservoir)	2·45 in.	or 8·4 per cent.
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JULY 27TH.

This day is memorable as being the last of the long spell of great heat in the south of England, and the heavy thunderstorms which came on in the afternoon brought the M to about 20 stations in the middle of England, and to more than 40 stations in the east and centre of Ireland. There was, however, nothing remarkable about the falls, only three of which are worthy of mention.

XXI.	Graigie (Brandondale)	2·60 in.	or 5·6 per cent.
„	Kilkenny (Millmount)	2·78 „	7·2 „
XXIII.	Castlewellan (Lough Island).....	2·60 „	5·3 „

AUGUST 2ND.

The M at about 20 stations in the south and east of Ireland, and at one in Wales, which happens to have the heaviest fall recorded for the day.

XI.	Bettws-y-coed (Aberllyn)	3·09 in.	or 7·1 per cent.
XXI.	Balbriggan (Ardgillan)	2·57 „	7·4 „

AUGUST 3RD.

A cyclonic rain of considerable intensity, reinforced in some parts by local thunderstorms, yielded the **M** at about 190 stations in the east and north of England, falls greater than any previously recorded occurring at several stations in Yorkshire. It is worthy of remark that this rain produced the **M** in most parts of England in which all earlier heavy falls were not thrown into the shade by the storm of December 30th. Between 8 a.m. of August 3rd, and 8 a.m. of August 4th, the centre of a small, well marked cyclone, passed from west to east across England, between Cardigan Bay and the Wash, causing heavy rain, with southerly to south-easterly gales in East Anglia, and with easterly to north-easterly gales in Yorkshire, and the north of England generally, while in south Wales, and central and southern England, there were north-westerly to south-westerly gales, and little rain.

VIII.	Liverpool (St. John's Gardens)	2·75 in.	or 8·4 per cent.
"	" (Newsham Park)	2·91 "	8·3 "
IX.	South Milford Rectory	2·50 "	8·2 "
"	Bolton Abbey	2·73 "	7·0 "
"	Ripon W.W. (Lumley Moor)	2·52 "	5·7 "
"	Ramsgill (Raygill Ho.)	2·84 "	5·1 "
"	Nidderdale (New Houses).....	3·31 "	6·2 "
"	Masham Moor (West Somerside)	2·77 "	6·2 "
"	" (High Sour Mire).....	3·75 "	8·5 "
"	" (Leighton)	3·11 "	6·3 "
"	" (Low Houses)	2·95 "	6·8 "
"	Middleton-in-the-Wolds	3·39 "	10·3 "
"	Pocklington (Warter)	2·62 "	8·0 "
"	Driffield (Beverley Road)	2·07 "	7·5 "
"	" (York Road)	3·34 "	11·0 "
"	Wetwang	3·19 "	10·6 "
"	Bedale (The Park House)	2·50 "	8·0 "
"	Aysgarth Vicarage	2·55 "	5·8 "
"	Seamer (Irton)	3·04 "	9·2 "
"	Richmond (The Grove).....	2·63 "	6·2 "
"	Ingleby Manor	3·27 "	8·2 "
"	" Greenhow Vicarage	3·13 "	8·2 "
"	East Layton.....	2·60 "	7·1 "
"	Stanwick Park [Darlington]	2·63 "	6·9 "
"	Great Ayton (Easeby Hall)	2·68 "	7·0 "
"	Guisborough (Lockwood Beck Res.) ...	2·54 "	6·5 "
"	Middlesbrough (Albert Park)	3·24 "	9·7 "
X.	Darlington (Hurworth Grange)	2·52 "	7·4 "
"	" (Elcote, Hurworth)	2·55 "	7·4 "
"	" (Cleveland Parade)	2·41 "	7·5 "
"	" (Public Park)	2·63 "	7·2 "
"	" (Hummersknott)	2·41 "	8·3 "
"	Heighington (Walworth Castle)	2·55 "	8·1 "
"	Weardale W.W. (Tunstall)	2·85 "	6·6 "
XI.	Flint (Soughton Hall, Northop)	2·60 "	7·3 "
"	Llangerniew (Hafodunos).....	2·66 "	5·8 "
"	Denbigh (Garn)	3·50 "	9·2 "
"	Trefnant (Maes Elwy)	2·90 "	9·0 "

AUGUST 6TH AND 7TH.

Another cyclonic rain, yielding the M at about 100 stations in the north of England, south of Scotland, and east of Ireland. The cyclone producing this storm crossed the south of Ireland, North Wales, and England from the mouth of the Mersey to the mouth of the Tyne, but it was not so steep in its gradients, and did not produce such heavy rains as that of two days before. The only falls which it is necessary to notice occurred on the 6th. They are—

VIII.	Chester (Hoole Lodge)	2.51 in.	or 7.9 per cent.
XI.	Bagillt (Lead Works)	2.55 „	6.9 „
XIII.	Edinburgh (Blackford Hill)	1.64 „	8.3 „

AUGUST 11TH.

The M at rather less than a dozen wet stations, yielding quite insignificant percentages, though one very heavy fall.

XVIII.	Loch Sheil (Glenaladale)	2.82 in.	or 2.5 per cent.
„	„ Skye (Strathaird)	5.03 „	5.4 „

AUGUST 17TH.

Sharp thunderstorm rains in the south-east of England yielded the M at half-a-dozen dry stations in the southern suburbs of London

II.	Streatham (Woodfield Avenue)	1.89 in.	or 8.2 per cent.
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AUGUST 21ST.

Thunderstorms brought the M to about 20 stations, widely scattered over the three kingdoms.

XI.	Rhiwbrydir=Oakley Quarries	3.05 in.	or 2.8 per cent.
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AUGUST 22ND.

Thunderstorms were still prevalent in many parts of the country, bringing the M to about 30 stations, more than half of them in Inverness, and the neighbouring Highland counties.

XVII.	Banchory (Invercannie).....	2.65 in.	or 5.8 per cent.
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SEPTEMBER 26TH.

A cyclonic storm, with its centre passing to the north of Ireland and Scotland, brought south-westerly gales over the northern parts of our islands, and the M to about 25 stations, yielding insignificant percentages.

XV.	Oban (Bragleenbeg, Kilninver)	2.75 in.	or 3.0 per cent.
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OCTOBER 6TH.

During a spell of wet autumn weather, from 6th to 9th, the M came to about 35 stations in Ireland, the north of England, and the west of Scotland. On the 6th there was only one noteworthy fall.

X.	Cockermouth (Brandlingill)	2.62 in.	or 4.0 per cent.
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OCTOBER 7TH.

XV.	Strontian (Laudale)	2·52 in.	or 2·8	per cent.
„	Ardgour	3·00 „	4·0	„
XVIII.	Loch Nevis (Inverie).....	2·50 „	2·6	„
„	Loch Torridon (Bendamph)	2·60 „	2·6	„

OCTOBER 26TH.

A very severe storm of snow, sleet and rain, with a northerly to north-westerly gale, bringing an exceptionally high M, both as regards quantity and percentage, to more than 50 stations in Northumberland, Durham and the North Riding of Yorkshire. The storm was followed by serious floods in the northern counties, and a preliminary account appeared in the *Met. Mag.* for November, 1900, p. 145. The snow, with which the storm commenced, began to fall on the afternoon of the 26th, but soon changed into sleet, and then into heavy rain, lasting until the forenoon of the 27th, though in most places the heaviest rain fell before the time for emptying the gauges, and thus the total fall was practically credited to one day. The fact that more than half of the maximum falls recorded on this day require insertion is evidence of the exceptional heaviness of the rain.

X.	Stockton (Rimswell)	3·50 in.	or 11·1	per cent.
„	Hartlepool (Hurworth Burn)	2·73 „	7·2	„
„	„ (Hart Reservoir)	2·77 „	8·7	„
„	Seaham Harbour	3·29 „	9·7	„
„	„ Vicarage	3·35 „	9·9	„
„	Sunderland (West Hendon House).....	3·28 „	9·2	„
„	„ (Fever Hospital)	3·37 „	9·7	„
„	„ (Claxheugh Grove)	3·00 „	8·2	„
„	„ (The Cedars)	3·65 „	9·5	„
„	Gateshead (Eighton Cottage)	2·75 „	7·2	„
„	Newcastle (Lit. and Phil. Soc.)	3·56 „	8·9	„
„	„ (Northumberland Road) ...	2·63 „	7·5	„
„	„ (Claremont Road)	2·63 „	6·8	„
„	„ (Leazes Park)	3·24 „	8·2	„
„	„ (Town Moor)	3·33 „	8·6	„
„	„ (Wellburn, Jesmond)	3·68 „	9·0	„
„	North Shields (Post Office)	3·22 „	9·5	„
„	„ (Tynemouth).....	3·36 „	9·1	„
„	„ (Chirton Cottage).....	3·06 „	8·7	„
„	Scots Gap (Rothley Crag)	2·51 „	6·3	„
„	Angerton Hall.....	2·50 „	5·9	„
„	Morpeth (Bothalhaugh Garden)	3·68 „	9·0	„
„	„ („ Lawn).....	3·22 „	9·1	„
„	„ (Cockle Park).....	3·07 „	7·9	„
„	Rothbury (Crag-side)	2·55 „	5·8	„
„	Alwinton (Biddleston Hall).....	2·60 „	5·7	„
„	Alwick Castle	3·67 „	9·4	„
„	Howick Hall	2·85 „	7·9	„
„	Longhirst.....	3·50 „	8·9	„

NOVEMBER 6TH.

The M occurred at about 25 scattered stations, most of them in Ireland, but the only remarkable fall was in Wales.

XI. Arenig (Bodrennig)..... 3·40 in. or 5·2 per cent.

NOVEMBER 15TH.

A moderate M at 7 stations, one of which was—

XI. Cwmaman 3·12 in. or 3·6 per cent.

NOVEMBER 27TH.

An inconspicuous M at 14 stations, most of them in Ireland, but only one worth noting.

XXI. Glen-na-Smoel..... 2·99 in. or 4·6 per cent.

DECEMBER 8TH.

The M at five wet stations, one of which though trifling as to percentage, must be noted because of its amount.

X. Patterdale Hall 2·74 in. or 2·9 per cent.

DECEMBER 14TH.

The wettest part in England enjoys the distinction this year of having its modest M on a day which proved the wettest in no other place.

X. Seathwaite 5·32 in. or 4·1 per cent.
 „ Rosthwaite 4·35 „ 4·0 „

DECEMBER 26TH.

Half-a-dozen unimportant M, including—

X. Patterdale (Greenside Mines) 3·48 in. or 3·6 per cent.

DECEMBER 30TH.

This was the most remarkable day of the year so far as rainfall is concerned, and the rain is perhaps the most remarkable that has ever been recorded since the long series of volumes on British Rainfall began. In discussing the heavy fall of September 10th, 1885, Mr. Symons said—“The great R of the year, yielding the M at 560 stations (a number, which we believe, has not been approached in previous years),” and, we may add, a number that had not been equalled since, unless, perhaps, in one of the exceptionally heavy rains of 1892. The 1885 fall yielded 142 records which were considered worthy of note, at a time when the limits were 2·00 in., or 6·0 per cent. But the rain of December 30th gave the M at 806 stations, and of these no less than 174 are quoted below as exceeding the more exacting limits of 2·50 in., or 7·5 per cent., which are now

adopted. Both of these great rains were confined to England and Wales, and when we compare the number of stations at which the **M** occurred on the two occasions, with the whole number of stations at the time in England and Wales, we find the interesting fact that the ratio was 28 per cent. each time. But in 1885 only 8 per cent. of the **M** came within the present limits adopted for publication, as against 22 per cent. in 1900, and thus we have some ground for claiming the great rain of December 30th as probably unique for its extent and intensity.

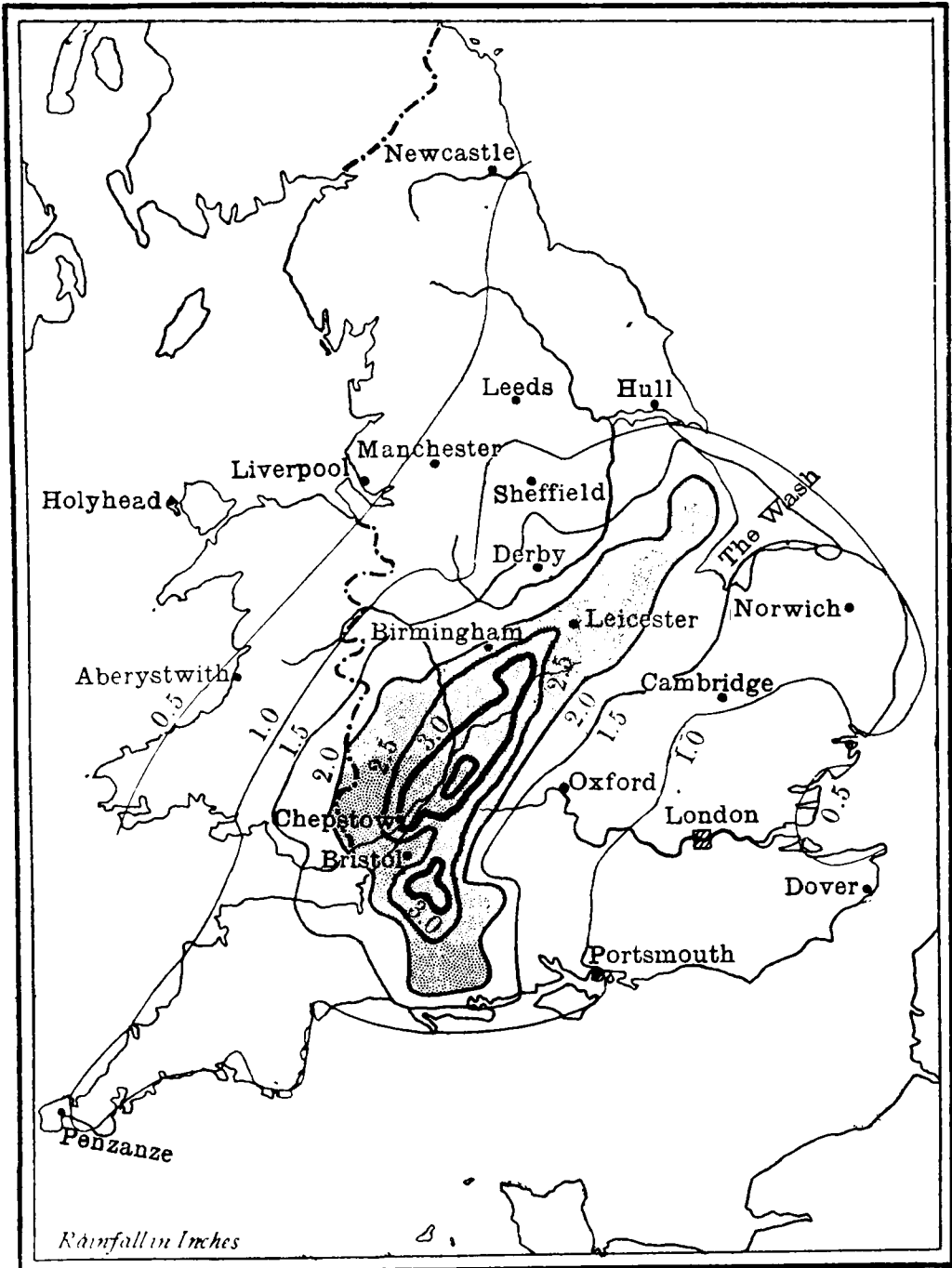
A preliminary account of the fall was published in the *Met. Mag.* for January, 1901 (vol. **35**, p. 178). From the full data now before us the description may be considerably augmented, and in a few particulars corrected. Thus the more numerous figures now discussed show that the form of the area of the rain was scarcely triangular, as it at first appeared, but roughly rectangular, the axis of the rectangle running from S.W. to N.E.

In order to study the distribution of this rain, we placed the figures representing the falls at more than 1,000 stations, on a map of England and Wales, and then drew lines, which are reproduced on the accompanying map, enclosing areas where more than half-an-inch, one inch, one-and-a-half-inches, two, two-and-a-half and three inches respectively, fell in twenty-four hours.* We doubt if there was any station in England at which rain did not fall on that day. Less than half-an-inch was reported in nearly all parts of the country lying west of a line drawn from Pembroke to Newcastle-on-Tyne, and at a few stations on the lower estuary of the Thames. More than an inch of rain fell over a broad diagonal belt of England, reaching from Penzance to Hull, on its north-western side, and from Portsmouth to Harwich on its south-eastern. More than two inches fell on the central zone of this belt, in an area 40 miles wide, stretching from the south of Dorset to the east of Lincoln; and within that there were two areas with over three inches. The smaller lay in the angle between the north slope of the Mendip hills and the western edge of the southern part of the Cotswolds, between Bath and Frome. The larger occupied the valley of the lower Severn and the Warwickshire Avon, from Chepstow to Coventry, its eastern boundary corresponding for some distance with the edge

* The rainfall of the wettest area is shown in figures on the map facing p. 136.

of the escarpment of the Cotswolds. It is interesting to notice that the wettest belt runs across the central plain of England, from the Severn to the Wash, and the very wettest part of it lies so

Distribution of Rain. December 30th. 1900



exactly in the centre that it is equidistant between Holyhead and Dover at its northern extremity, and equidistant between Aberystwith and Portsmouth at its southern.

As a matter of curiosity we have made a rough calculation of the quantity of water which fell on the surface of England and Wales between 9 a.m. on December 30th, and 9 a.m. on December 31st, and the following is the result.

Limits of rain.	Average fall.	Tons per square mile.	Square miles.	Tons of water.
Under .50 in.	.4	25,600	14,500	371,200,000
.50 in. to 1.00 "	.8	51,200	17,000	870,400,000
1.00 " 2.00 "	1.4	90,240	20,200	1,822,848,000
2.00 " 3.00 "	2.3	148,490	5,300	786,997,000
Over 3.00 "	3.1	200,320	1,200	240,384,000
			58,200	4,091,829,000

This corresponds to an average fall of 70,306 tons per square mile, or to an average depth of 1.09 in. of rain over the whole area of England and Wales. It is a coincidence—of no value save as an aid to memory—that this amount of rain is exactly equal to one cubic mile of water, or, roughly, to 147,000,000,000 cubic feet, an amount that would fill all the English lakes of the Lake district four times over.

The rain was a typical winter cyclonic rain, the centre of the depression passing from the Bristol Channel to the Strait of Dover, and although the fall over the central area was very heavy, and in many cases unprecedented since observations commenced, the amount was the result of many hours of continuous rain, not of a sudden torrential downpour, such as characterised the Ilkley storm of June 12th. So far as the somewhat fragmentary information as to the beginning and end of the heavy rain can be interpreted, it appears that it began in all parts of the country between 9 and 10 a.m. on the 30th, but was not very heavy up to 4 p.m. At this hour there was practically a cessation of rain at many stations until between 7 and 9 p.m., when very heavy rain began, and continued at all the stations in the wettest area until between 3 and 5 a.m. on the 31st, when the weather cleared. In the wettest area the rain during the night was unquestionably the heaviest; but outside the conditions were quite different. Thus at Camden Square, where the total fall was only .71 in., rain began about 1 p.m. on the 30th, and continued at the nearly uniform rate of .10 in. per hour, until 8 p.m., when it ceased, and no more rain fell until 5 a.m. on the 31st, after which slight showers continued at intervals until 9 a.m.

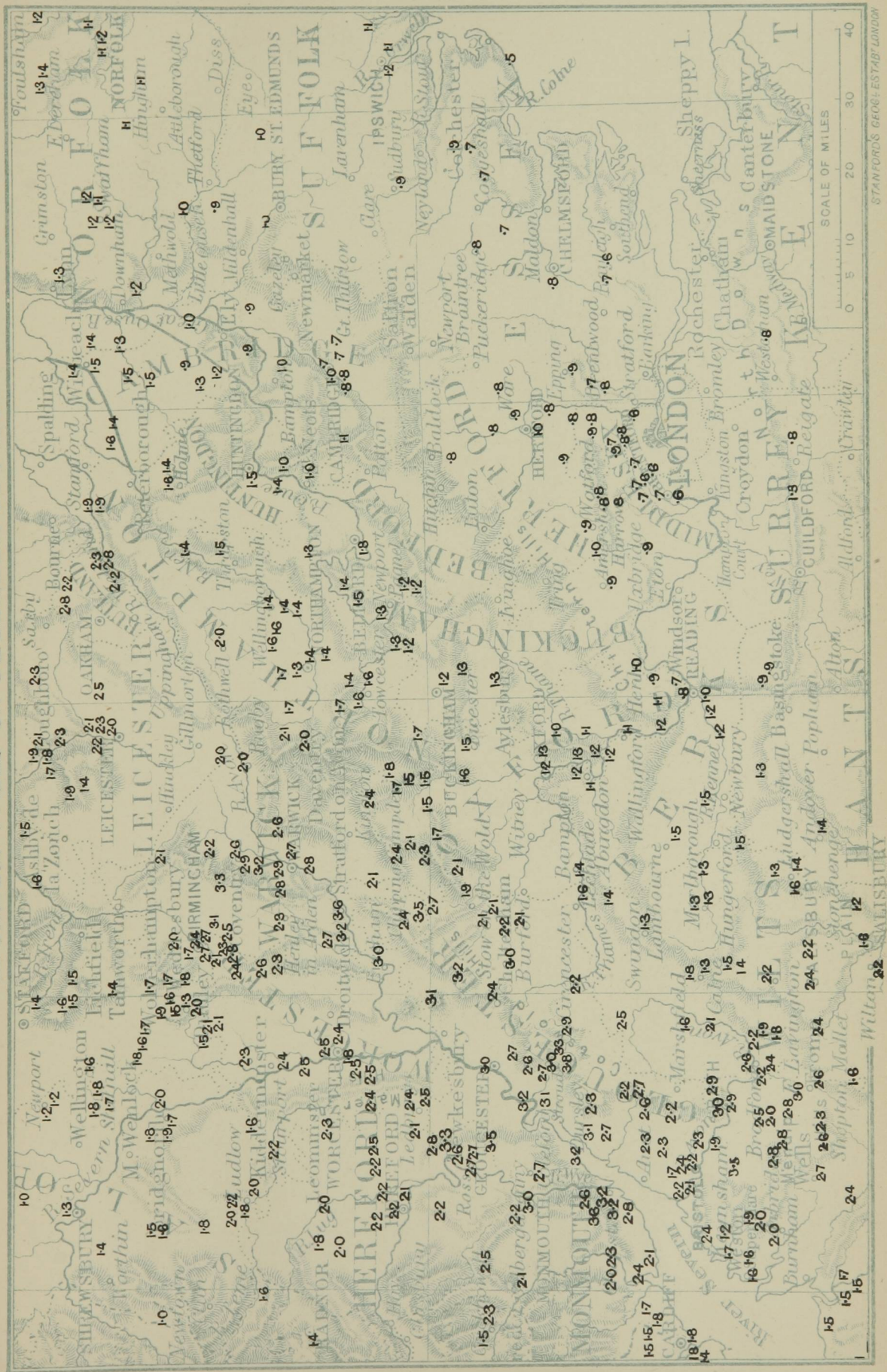
The percentage of the rainfall of the year which fell on its last Sunday exceeded 10 at eighteen stations, and at one reached 11·9, where nearly one-eighth of the annual amount fell on the one day.

The following list is the longest that has ever appeared in this part of British Rainfall.

III.	Althorp House	1·72 in.	or 7·5 per cent.
„	Kettering W.W. (Cransley).....	2·00 „	7·7 „
„	„ (Headlands)	1·91 „	7·6 „
„	Kingscliffe (Fineshade)	2·24 „	8·7 „
„	Barnack (Walcot Hall)	1·75 „	7·5 „
„	Stamford (Collyweston)	2·81 „	10·8 „
„	„ („ House)	2·38 „	8·6 „
„	„ (Easton)	2·64 „	10·6 „
„	„ (St. Martin's)	2·60 „	10·2 „
„	Maxey Vicarage [Market Deeping] ...	1·87 „	8·1 „
„	Huntingdon (Hinchbrook Gardens).	1·57 „	8·2 „
„	Mepal Engine	1·20 „	7·7 „
„	Stanground Sluice	1·53 „	7·5 „
„	Thorney	1·56 „	7·7 „
V.	Mere (Dews House)	2·83 „	7·8 „
„	„ Vicarage	2·69 „	7·5 „
„	Salisbury Plain (Chitterne House)	2·36 „	8·1 „
„	Bradford (The Chantry)	2·63 „	8·7 „
„	Malmesbury (Charlton)	2·50 „	8·1 „
„	Temple Combe Rectory	2·71 „	7·2 „
„	Wincanton	2·88 „	8·2 „
„	Shepton Mallet (Sewage Farm)	2·65 „	6·6 „
„	Wells (The Deanery Gardens)	2·72 „	7·3 „
„	„ (The Cedars)	2·68 „	7·2 „
„	Frome (Mells Rectory)	2·95 „	7·7 „
„	„ (Orchardleigh)	2·57 „	7·7 „
„	Radstock (Downside College)	2·82 „	6·4 „
„	Chewton Mendip (The Priory)	2·77 „	5·7 „
„	„ „ (Waldegrave House)	2·80 „	5·6 „
„	Ston Easton.....	2·84 „	6·3 „
„	E. Harptree (Harptree Court).....	2·82 „	5·4 „
„	Radstock (Camerton Court).....	2·51 „	5·8 „
„	Pensford (Sutton Court)	3·48 „	7·3 „
„	Bath (Henrietta Park)	2·98 „	9·3 „
„	„ (Kingswood School).....	2·85 „	8·6 „
„	„ (Hampstead, Coombe Park)	2·90 „	8·7 „
„	„ (Charlcombe).....	2·66 „	8·3 „
„	Batheaston	2·88 „	8·8 „
„	„ Reservoir.....	2·56 „	8·1 „
VI.	Bristol (The Grove, Fishponds)	2·35 „	7·5 „
„	Chipping Sodbury (Stanshawes Court)	2·60 „	7·5 „
„	Bristol (Overcourt Park)	2·80 „	7·5 „
„	„ („ Garden)	2·75 „	7·9 „
„	Badminton	2·75 „	7·3 „
„	Tortworth Court.....	2·67 „	7·7 „
„	Fairford (Horcott)	1·97 „	8·0 „
„	Berkeley (Castle Gardens)	3·14 „	9·0 „
„	Amberley (Highlands)	3·78 „	8·8 „
„	Woodchester (Culver House)	2·92 „	7·8 „

VI.	Chelford (Hyde House).....	2.90	in.	or 7.8	per cent.
„	Lydney (Clanna).....	3.29	„	7.2	„
„	„ (Priors Mesne).....	3.03	„	6.7	„
„	Stroud (Stanley Park)	3.00	„	8.3	„
„	„ (The Acre)	3.32	„	9.1	„
„	„ (Upfield)	3.09	„	8.8	„
„	Stonehouse (Wycliffe College).....	2.73	„	8.1	„
„	Whitminster	3.10	„	9.1	„
„	Haresfield Court.....	2.63	„	8.0	„
„	Coleford (The Coombs)	2.72	„	5.7	„
„	Gloucester (Cotswold Sanatorium)	2.78	„	7.1	„
„	Westbury-on-Severn (Chaxhill)	3.20	„	10.4	„
„	Gloucester (Quedgeley House).....	3.10	„	9.2	„
„	„ (Birdlip Hill)	2.79	„	7.7	„
„	Mitcheldean (Blaisdon)	3.49	„	9.5	„
„	Gloucester (Hempsted)	3.11	„	9.9	„
„	„ (Llanthony Lock)	2.71	„	9.2	„
„	„ (Lower Barton Street)	2.84	„	9.5	„
„	„ (Churcham)	2.82	„	8.7	„
„	„ (Wotton Asylum)	2.70	„	9.3	„
„	Cheltenham (Dowdeswell)	2.70	„	8.5	„
„	„ („)	3.30	„	9.8	„
„	„ (Hewletts Reservoir)	2.55	„	8.5	„
„	„ (Sandford)	2.57	„	9.4	„
„	„ (Heath Lodge)	2.43	„	8.0	„
„	„ (Southam Villa)	2.19	„	7.7	„
„	Winchcombe	3.17	„	9.8	„
„	Moreton-in-Marsh (Longborough)	2.65	„	7.4	„
„	Tewkesbury (Upper Lode)	3.30	„	11.2	„
„	„	2.88	„	11.5	„
„	„ (Beckford).....	3.10	„	10.8	„
„	Chipping Campden (Hidcote)	2.43	„	8.3	„
„	Ross (Croome Hall)	2.75	„	7.7	„
„	„ (The Graig).....	2.70	„	8.0	„
„	Upton Bishop (The Baches)	2.60	„	8.5	„
„	Much Marcle (Claremont).....	2.75	„	8.5	„
„	„ „ (Caerswall)	3.30	„	10.6	„
„	Wessington Court	2.49	„	8.1	„
„	Ledbury (Orchardleigh)	2.39	„	7.8	„
„	„ (Underdown)	2.48	„	7.6	„
„	Hereford (St. Owen Street)	2.23	„	7.5	„
„	Lugwardine (The Laurels)	2.25	„	7.7	„
„	Yarkhill Vicarage	2.25	„	7.7	„
„	Canon Frome Vicarage	2.50	„	8.3	„
„	Malvern Hills (Upper Wych)	2.45	„	7.6	„
„	Brinsop Vicarage	2.10	„	7.5	„
„	Bromyard (Buckenhill)	2.34	„	7.8	„
„	Netherton (Lodge Farm Reservoir) ...	1.96	„	7.8	„
„	Blockley (Upton Wold).....	3.50	„	9.8	„
„	Upton-on-Severn (Willow Bank)	2.90	„	9.0	„
„	„ „ (The Eades)	2.38	„	7.6	„
„	Evesham (Lansdowne)	3.05	„	11.8	„
„	Great Malvern (Belle Vue House)	2.50	„	7.4	„
„	„ „ (Madresfield Rectory)...	2.46	„	7.6	„
„	„ „ („ Court).....	2.68	„	8.5	„
„	Leigh Lodge	2.30	„	7.6	„
„	Worcester (Belmont Road)	2.48	„	9.4	„

MAXIMUM FALLS ON DECEMBER 30TH 1900



VI.	Worcester (Water Works)	2·40	in.	or 8·6	per cent.
"	" (Bevere Lock)	2·59	"	9·4	"
"	" (Hawford Lodge)	2·78	"	8·9	"
"	Droitwich (Holt Lock)	2·50	"	8·3	"
"	Redditch (Prospect Hill)	2·28	"	7·8	"
"	Bromsgrove (Stoke Reformatory)	2·26	"	8·2	"
"	Stourport (Lincombe Lock)	2·38	"	7·9	"
"	Alvechurch (The Uplands)	2·64	"	8·1	"
"	Bromsgrove (Lower Bittal Reservoir)	2·40	"	8·4	"
"	Bewdley (Winterdyne Gardens)	2·50	"	8·6	"
"	Kidderminster (Prospect Hill)	2·32	"	9·1	"
"	Lifford (Sewage Works)	2·50	"	7·6	"
"	King's Heath (Cambridge Road)	2·32	"	7·9	"
"	Stechford (Ely Cottage)	2·70	"	8·6	"
"	Long Compton (Weston Park)	2·33	"	7·6	"
"	Shipston (Compton Wynyates)	2·44	"	7·6	"
"	" (Honington)	2·08	"	7·5	"
"	Farnborough	2·41	"	7·6	"
"	Stratford-on-Avon (Guild Street)	3·60	"	11·9	"
"	" (Shottery Hall)	3·20	"	11·8	"
"	Alcester (Ragley Gardens)	2·68	"	9·6	"
"	Warwick (Barford Rectory)	2·81	"	10·7	"
"	Leamington (The Parade)	2·68	"	10·3	"
"	Henley-in-Arden (Barrell's Park)	2·30	"	8·0	"
"	Warwick (Hatton Vicarage)	2·84	"	10·3	"
"	Milverton (Latmos)	2·91	"	10·3	"
"	Leamington (Cubbington)	2·60	"	9·4	"
"	Kenilworth (The Spring)	3·23	"	10·8	"
"	Coventry (City Hospital)	2·85	"	9·9	"
"	" (Priory Row)	2·85	"	9·2	"
"	" (Stoke)	2·58	"	8·2	"
"	" (Kingswood)	3·87	"	10·4	"
"	" (Keresley Grange)	3·30	"	10·2	"
"	Birmingham (Sheldon Rectory)	3·14	"	9·0	"
"	" (Botanic Gardens)	2·16	"	7·5	"
"	" (The Crescent)	2·43	"	8·6	"
VII.	Hallaton Hall	2·26	"	8·2	"
"	Leicester (Town Hall Square)	2·03	"	7·6	"
"	Thornton Reservoir	2·55	"	8·4	"
"	Thurcaston Rectory	2·33	"	8·9	"
"	Syston	2·72	"	9·2	"
"	Ratcliffe-on-Wreake College	2·55	"	9·3	"
"	Barrow-upon-Soar	2·33	"	7·8	"
"	Waltham-le-Wolds	2·34	"	8·1	"
"	Belvoir Castle	2·20	"	8·1	"
"	Horninghold House	2·40	"	9·8	"
"	Tinwell, South View [Stamford]	2·22	"	8·8	"
"	Tolethorpe Hall [Stamford]	2·27	"	9·5	"
"	Market Overton	2·85	"	9·5	"
"	Market Deeping (Wilsthorpe)	1·92	"	8·7	"
"	Grantham (Saltersford)	2·15	"	8·2	"
"	" (High Street)	2·11	"	7·8	"
"	Horbling (The Hall)	2·03	"	8·2	"
"	Fulbeck	2·05	"	7·6	"
"	Sleaford (Bloxholm)	2·08	"	8·4	"
"	Carrington Grange	2·20	"	8·0	"
"	Horncastle (Revesby)	2·31	"	8·0	"

VII.	Spilsby (Boston Road)	2·31 in.	or 7·8 per cent.
„	Horncastle (Bucknall)	1·65 „	7·6 „
XI.	Portskewett (Sudbrook)	2·80 „	8·1 „
„	Chepstow (Moun-ton Road Res.).....	2·63 „	6·7 „
„	„ (Shirenewton Hall)	3·22 „	6·8 „
„	„ (Piercefield Park)	3·24 „	7·5 „
„	„ (Itton Court).....	3·75 „	8·5 „
„	Monmouth (School House)	3·03 „	7·6 „
„	„ (The Hendre)	2·73 „	7·8 „
„	Llanvihangel Court	2·54 „	6·1 „
„	Llantrisant (Talygarn)	2·59 „	4·1 „

PART II.—ABSTRACT.

In spite of a high average for the max. falls, and two or three notable rains, the number of instances of rain gauges overflowing, is this year, we are glad to say, small, and we hope that this may be taken as proof of the fact that the number of gauges of obsolete and unsatisfactory patterns is rapidly diminishing. Of the four instances which we remember of gauges being of insufficient capacity we think none would have found place in the following tables, which give in a compact form the greatest rains of the year 1900.

Table I. gives the sixteen greatest daily falls recorded in the British Isles, the greatest being 5·40 inches at Ilkley, during the cloud-burst on July 12th, and this amount though slightly below the average, has been exceeded in only 14 out of the preceding 35 years. The Ilkley storm is responsible for six of the entries in the table, and was, undoubtedly the most remarkable rain of the year. The great rain of December 30th yields three entries, and a wet day in Borrowdale, on December 14th, two entries.

Table II. enables us to compare Table I. with the corresponding records for previous years, and shows that the average of the falls is high, the average of the percentages is high, and the average of the yearly totals is low; showing clearly that the falls are individually remarkable, and not merely the result of normally wet days at wet stations. The average of the 16 falls, 4·29 in., is half-an-inch above the mean, and has been exceeded in only 6 out of the preceding 35 years.

Turning to Table III., the first fact that calls for notice is that there are only two entries common to Tables I. and III. These are the first two entries in Table III., and both the result of the Ilkley storm; that storm in the table of heavy falls in short periods also, gave one of the most exceptional values ever recorded. December 30th supplies the great bulk of the max. percentages, with 11 entries

in the table ; showing clearly how these two days supplied the preponderating features of 1900, The great rain in the north on October 26th indicates its existence by one entry, and the gale and thunderstorms of August 3rd yield the two remaining records.

The numerical results of Table III., as shown in Table IV., though not phenomenal, fully bear out the greatness of the rains of 1900, for the differences from the average shows a plus sign for every column.

Table V. tells precisely the same tale—nothing unprecedented, but for every column a plus sign—even for the percentage column, though the mean total fall for the year is two inches above the average.

In Table VI. we come upon the unprecedented for the first time, and see the true character of 1900—641 records of 2·00 in. or more, and 89 records of 3·00 in. or more, both numbers the greatest on record, and the former far in excess of the greatest number in any previous year.

We may sum up by saying that if the records of the great fall of December 30th were eliminated the thunderstorm rains would assume their normal place in Tables I. and III., the excess of falls above 2·00 in. and 3·00 in. would disappear, and as regards max. falls, 1900 would become an average year.

TABLE I.—*Maximum Falls in 1900.*

Date.	Div.	Station.	Depth.	Per Cent.	Total.
July 12 ...	IX.	Ilkley, Cherry Bank	5·40 in.	11·9	45·33 in
Dec. 14 ...	X.	Seathwaite	5·32 ,,	4·1	129·54 ,,
Feb. 15 ...	,,	Borrowdale, Grange	5·06 ,,	4·9	103·30 ,,
Aug. 11 ...	XVIII.	Skye, Strathaird.....	5·03 ,,	5·4	93·79 ,,
July 12 ...	IX.	Bingley, Gilstead Filters ...	4·50 ,,	13·1	34·23 ,,
Dec. 14 ...	X.	Borrowdale Vic. = Rosthwaite	4·35 ,,	4·0	108·51 ,,
July 12 ...	IX.	Ilkley, Eaton Road	4·26 ,,	9·7	44·12 ,,
„ „ ...	,,	Bingley, Sunnydale	4·12 ,,	10·4	39·68 ,,
„ „ ...	,,	Ilkley	4·01 ,,	9·6	41·73 ,,
„ „ ...	,,	Bradford, Chellow Dean ...	4·00 ,,	9·2	43·44 ,,
Dec. 30 ...	VI.	Coventry, Kingswood	3·87 ,,	10·4	37·38 ,,
„ „ ...	,,	Amberley, Highlands	3·78 ,,	8·8	42·97 ,,
Aug. 3 ...	IX.	Masham Moor, High Sour Mire	3·75 ,,	8·5	43·93 ,,
Dec. 30 ...	XI.	Chepstow, Itton Court	3·75 ,,	8·5	43·98 ,,
Jan. 6 ...	X.	KirkbyLonsdale, Barbon Manor	3·73 ,,	6·4	58·51 ,,
May 21 ...	,,	Buttermere, Hassness	3·70 ,,	3·2	115·30 ,,

TABLE II.—*Comparison of Maximum Falls with those in previous years.*

MEAN.				ABSOLUTE.			
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	— 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	—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	—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 ...	—2·83	6·1	56·8	4·93	13·0	Galway Q. 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	+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 ...	+5·24	5·3	95·1	+8·03	5·6	„	„
1898 ...	4·61	5·3	100·8	6·70	+18·1	Angerton Hall.....	„
1899 ...	3·92	5·0	86·6	5·21	5·6	Borrowdale	„
Mean ...	3·76	6·3	72·1	5·43	7·1	.....	...
1900 ...	4·29	8·0	64·1	5·40	11·9	Ikley, Cherry Bank	IX.
Diff. ...	+ 53	+ 1·7	— 8·0	—03	+4·8	.....	...

TABLE IV.—*Comparison of Max. Percentages with those in previous years.*

MEAN.				ABSOLUTE.			
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	+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.. [Hall	III.
1875 ...	10.2	+3.76	37.5	13.2	3.95	Letheringsett ...	IV.
1876 ...	— 7.4	2.49	33.7	— 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	CambridgeM. V.	III.
1880 ...	9.5	3.06	32.3	11.7	3.34	Marmont Pr. 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	—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	—2.11	21.9	13.0	4.93	Galway, Q. 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 ...	+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 Aslm	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	2.40	Chatteris, H. L.	III.
1898 ...	11.5	2.92	25.0	+18.1	+6.70	Angerton Hall..	X.
1899 ...	11.3	2.53	22.6	14.6	3.10	Wallingford ...	II.
Mean .	9.9	2.77	28.4	12.8	3.76	.....	...
1900 ...	11.3	3.37	29.8	13.1	4.50	GilsteadFilters	IX.
Diff. ...	+1.4	+ .60	+ 1.4	+ 0.3	+ .74	.....	...

TABLE V.—*Comparison of the Mean of all the Maximum Falls of 1900 with similar data for previous years.*

Years.	Number of Returns.	Mean Percentage.	Mean Amount.	Mean Total Fall in year.	Ratio taking 34=100.	Total Fall being assumed - 34in. Mean Max.
			in.	in.		
1865.....	481	5·1	1·70	33	97	5·0 per cent
1866.....	590	3·7	1·48	40	118	4·4 „
1867.....	584	4·6	1·44	31	91	4·2 „
1868.....	676	4·3	1·43	33	97	4·2 „
1869.....	637	4·2	1·42	34	100	4·2 „
1870.....	687	4·9	1·30	27	79	3·8 „
1871.....	752	4·9	1·49	30	88	4·4 „
1872.....	743	— 3·4	1·59	+ 47	+ 138	4·7 „
1873.....	809	4·6	1·35	29	85	4·0 „
1874.....	1010	4·4	1·41	32	94	4·1 „
1875.....	1081	5·0	+1·83	37	109	+5·4 „
1876.....	1112	3·9	1·49	38	112	4·4 „
1877.....	1180	3·8	1·56	41	121	4·6 „
1878.....	1186	4·3	1·49	35	103	4·4 „
1879.....	978	4·2	1·52	36	106	4·5 „
1880.....	1117	4·8	1·72	36	106	5·1 „
1881.....	1194	4·1	1·45	35	103	4·3 „
1882.....	1463	3·6	1·42	39	115	4·2 „
1883.....	1505	4·0	1·41	35	103	4·1 „
1884.....	1691	4·8	1·32	28	82	3·9 „
1885.....	1801	4·5	1·41	31	91	4·2 „
1886.....	1718	4·6	1·64	35	103	4·8 „
1887.....	1921	4·5	—1·14	— 25	— 74	—3·4 „
1888.....	1974	4·4	1·41	32	94	4·1 „
1889.....	1812	4·8	1·41	29	85	4·1 „
1890.....	2081	5·0	1·46	29	85	4·3 „
1891.....	2218	4·1	1·47	35	103	4·3 „
1892.....	2231	+ 5·4	1·62	30	88	4·8 „
1893.....	2267	4·8	1·30	27	79	3·8 „
1894.....	2321	4·2	1·46	35	103	4·3 „
1895.....	2423	4·5	1·37	30	88	4·0 „
1896.....	2465	4·4	1·33	30	88	3·9 „
1897.....	2598	4·1	1·36	33	97	4·0 „
1898.....	2691	5·0	1·42	28	82	4·2 „
1899.....	2791	4·7	1·42	30	88	4·2 „
Mean ...	1508	4·4	1·46	33	97	4·3 „
1900.....	2702	4·6	1·61	35	103	4·7 „
Diff.....	+1194	+ 2	+ 15	+ 2	+ 6	+ 4 „

TABLE III.—*Maximum Percentages in 1900.*

Date.	Div.	Station.	Per Cent.	Fall.	Total.
July 12 ...	IX.	Bingley, Gilstead Filters ...	13·1	4·50 in.	34·23 in.
" " "	"	Ilkley, Cherry Bank	11·9	5·40 "	45·33 "
Dec. 30 ...	VI.	Stratford-on-Avon, Guild St.	11·9	3·60 "	30·26 "
" " "	"	" " Shottery Hall	11·8	3·20 "	27·04 "
" " "	"	Evesham, Lansdowne	11·8	3·05 "	25·87 "
" " "	"	Tewkesbury	11·5	2·88 "	25·13 "
" " "	"	" Upper Lode ...	11·2	3·30 "	29·43 "
Oct. 26 ...	X.	Stockton, Rimswell	11·1	3·50 "	31·40 "
Aug. 3 ...	IX.	Driffield, York Road	11·0	3·34 "	30·40 "
Dec. 30 ...	VI.	Kenilworth, The Spring ...	10·8	3·23 "	30·03 "
" " "	"	Tewkesbury, Beckford	10·8	3·10 "	28·67 "
" " "	III.	Stamford, Colleyweston ...	10·8	2·81 "	26·00 "
" " "	VI.	Warwick, Barford Rectory.	10·7	2·81 "	26·16 "
" " "	"	Much Marcle, Caerswall ...	10·6	3·30 "	31·14 "
Aug. 3 ...	IX.	Wetwang	10·6	3·19 "	30·23 "
Dec. 30 ...	III.	Stamford, Easton	10·6	2·64 "	24·96 "

TABLE VI.—*Max. Falls in each year exceeding 2·00 in., and exceeding 3·00 in.*

Year.	Total number of records.	Falls of 2·00 in. or more.		Falls of 3·00 in. or more.	
		Number.	Per cent. of total No.	Number.	Per cent. of total No.
1882	1463	140	9·6	8	0·6
3	1505	170	11·3	23	1·5
4	1691	138	8·2	9	0·5
5	1801	179	10·0	24	1·3
6	1718	158	9·2	44	2·6
7	1921	52	2·7	4	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	+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
1899	2791	283	10·0	43	1·5
Mean	2109	244	11·4	35	1·6
1900	2702	641	+23·7	89	3·3
Diff.	+593	+397	+12·3	+54	+1·7

DROUGHTS IN 1900.

ALTHOUGH the definitions of drought used in these volumes for the last fifteen years are probably well known, it is, we think, desirable that they be quoted each year for convenience of reference :—

ABSOLUTE DROUGHTS.—Periods of *more than* 14 consecutive days without measurable rain.

PARTIAL DROUGHTS.—Periods of *more than* 28 consecutive days the aggregate rainfall of which does not exceed 0·01 in. per diem.

In the 50 selected stations for which the droughts are tabulated we have this year had to make two changes in the South of Scotland, but think that these changes have no effect on the results indicated.

The most striking fact is the utterly insignificant character of the droughts of 1900, for reference to the summary shows minus values for every column except the two of number of stations which *did not* experience droughts, and in these columns the plus signs are the equivalent of the minus signs in the other columns.

	ABSOLUTE DROUGHTS.				PARTIAL DROUGHTS.			
	No. of Droughts.	Duration.		Stations without one.	No. of Droughts.	Duration.		Stations without one.
		Average.	Greatest.			Average.	Greatest.	
		days.	days.			days.	days.	
1888	17	17	20	35	4	42	50	46
1889	42	21	30	13	38	34	45	15
1890	13	18	20	39	3	30	31	47
1891	26	18	34	28	38	36	49	14
1892	36	16	20	25	17	35	64	33
1893	39	20	44	23	53	51	114	10
1894	52	18	31	10	44	37	62	13
1895	52	19	29	16	47	39	64	19
1896	27	18	26	25	49	40	75	16
1897	20	18	20	31	7	40	61	44
1898	31	17	28	27	31	38	77	26
1899	60	21	31	10	41	35	48	20
Mean	35	18	28	24	31	38	62	25
1900	14	17	21	38	9	32	35	41
Diff.	—21	—1	—7	+14	—22	—6	—27	+16

The tables contain in all 23 droughts, 14 absolute and 9 partial ; but five stations recorded more than one drought, so that out of the 50 stations fairly distributed over the British Isles, only 18, or little more than one-third, experienced either partial or absolute drought. Since 1888 only one year has had fewer absolute droughts and only three have had fewer partial droughts.

Again, the average and greatest duration both of the absolute and partial droughts are among the smallest for any of the years recorded.

To deal with the individual droughts in the order of occurrence, the first was in the early part of March. It yielded absolute drought at two stations, one in the South and one in the West of Scotland, and partial drought at two stations both in the South of Scotland. The second drought occurred in the latter part of April. It yielded absolute drought at Torquay, in Devonshire, and at Driffild, in East Yorks, and partial drought at Welwyn, in Herts.

The third drought, in July, yielded five records all of absolute drought at stations in the South or South-West of England, the period extending to three weeks at Hythe and to 20 days at London and Dorking.

The last drought of the year occurred in the first half of September, and though insignificant, it was the most widespread of the year, yielding absolute drought at five stations—one in Northampton, two in Devon, one in Kerry and one in Wicklow, the greatest duration being 16 days at Bideford, and at Bray, co. Wicklow. As a partial drought it occurred at six stations, in Northampton, Wilts, Warwick, Derby, Monmouth and Montgomery, extending to 35 days at Maxey Vicarage and Kenilworth, and to 33 days at Calne. Further references to it will be found in the Remarks, from which it will be seen that in Oxfordshire 24 or 25 consecutive days were rainless.

Out of 23 droughts recorded at the 50 stations during the year, 11, or nearly half, occurred at this period at stations distributed over England, Wales and Ireland. It yielded the longest partial drought in the table, and at stations not included in the selected 50, absolute drought prevailed for a longer period than any which occurs in the table.

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
ENGLAND & WALES.			Days			Days	in
London (Camden Square), N. W.. <i>Middlesex.</i>	July 7	July 26	20	None			
Dorking (Abinger Hall) ... <i>Surrey.</i>	July 7	July 26	20	None			
Hythe..... <i>Kent.</i>	July 6	July 26	21	None			
Welwyn (Datchworth Rectory).. <i>Herts.</i>	July 4	July 19	16	April 6	May 5	30	·29
Maxey Vic. [Market Deeping] ... <i>Northampton.</i>	Sept. 1	Sept. 15	15	Aug. 26	Sept. 29	35	·30
Geldeston [Beccles] <i>Norfolk.</i>	None			None			
Calne (High Street)..... <i>Wilts.</i>	None			Aug. 24	Sept. 25	33	·17
Torquay (Cary Green)..... <i>Devon.</i>	April 13 Sept. 3	April 29 Sept. 17	17 15	None			
Bideford (Northam Vicarage) ... <i>Devon.</i>	July 16 Sept. 2	July 30 Sept. 17	15 16	None			
St. Austell (Trevarna) <i>Cornwall.</i>	None			None			
Ilminster (White Lackington) ... <i>Somerset.</i>	None			None			
Ross (The Graig) <i>Hereford.</i>	None			None			
Weston Park [Shifnal] <i>Stafford.</i>	None			None			
Kenilworth (The Spring) ... <i>Warwick.</i>	None			Aug. 26	Sept. 29	35	·35
Worksop (Hodsock Priory) <i>Notts.</i>	None			None			
Belper (Quarry Bank) <i>Derby.</i>	None			Aug. 26	Sept. 25	31	·30

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Last- ed.	Began.	Ended.	Last- ed.	Amount.
St. Michael's-on-Wyre Vic. <i>Lancashire.</i>	None		Days	None		Days	in.
Knaresborough (Farnham) <i>York, W.R.</i>	None			None			
Driffield (Beverley Road) <i>York, E.R.</i>	April 18	May 2	15	None			
Darlington (Hurworth Grange)... <i>Durham.</i>	None			None			
Morpeth (Bothalhaugh Garden)... <i>Northumberland.</i>	None			None			
Pawston [Coldstream]..... <i>Northumberland.</i>	None			None			
Whitehaven (Irish Street) <i>Cumberland</i>	None			None			
Chepstow (Shirenewton Hall) .. <i>Monmouth</i>	None			Aug. 24	Sept. 21	29	·20
Haverfordwest (High Street) ... <i>Pembroke.</i>	None			None			
Churchstoke (Mellington Hall)... <i>Montgomery.</i>	None			Aug. 25	Sept. 25	32	·28
Denbigh (Garn)..... <i>Denbigh.</i>	None			None			
Lligwy <i>Anglesea.</i>	None			None			
SCOTLAND.							
Garliestown (Galloway House)... <i>Wigton.</i>	None			Feb. 26	Mar. 26	29	·29
Dumfries (Ivy Bank) <i>Dumfries.</i>	Feb. 28	Mar. 14	15	Feb. 27	April 1	34	·27
Melrose Asylum <i>Roxburgh.</i>	None			None			
Edinburgh (Botanic Gardens) ... <i>Edinburgh.</i>	None			None			
Dalmellington (Benquhat) <i>Ayr.</i>	None			None			

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
			Days			Days	in.
Buchlyvie (The Manse) <i>Stirling.</i>	None			None			
Strontian (Laudale) <i>Argyll.</i>	None			None			
Islay (Eallabus) <i>Argyll.</i>	Feb. 28	Mar. 19	20	None			
Kirriemuir (Lintrathen) ... <i>Forfar.</i>	None			None			
Cromar (Logie Coldstone Manse) <i>Aberdeen.</i>	None			None			
Alness (Ardross Castle) <i>Ross.</i>	None			None			
Golspie (Dunrobin Castle) <i>Sutherland.</i>	None			None			
IRELAND.							
Dunmanway (Coolkelure) <i>Cork.</i>	None			None			
Killarney (Woodlawn) <i>Kerry.</i>	Sept. 2	Sept. 16	15	None			
Clonmel (Bruce Villa) <i>Tipperary.</i>	None			None			
Enniscorthy (Ballyhyland) <i>Wexford.</i>	None			None			
Bray (Fassaroe) <i>Wicklow.</i>	Sept. 1	Sept. 16	16	None			
Athlone (Twyford) <i>Westmeath.</i>	None			None			
Ballinasloe <i>Galway.</i>	None			None			
Collooney (Markree Observatory) <i>Sligo.</i>	None			None			
Belfast (Springfield) <i>Antrim.</i>	None			None			
Stewartstown (The Square) <i>Tyrone.</i>	None			None			

MONTHLY RAINFALL OF 1900.

THE discussion of monthly rainfall is of such general interest and importance that a large portion of the annual volume is always devoted to it. The Observers' Notes on the months give the general impressions of the weather, and especially of the rainfall made on a large number of intellectual observers in all parts of the country. The tables of monthly rainfall at 231 stations give the actual monthly fall for as many stations as we can find space to print in this extended form, and the variations of monthly rainfall are thrown into prominence by the accompanying little maps, on which the relation of the fall for each month with regard to the average of the same month for the ten years 1880-89 is shown by symbols. Wherever the fall was within one inch of the average value, a dot is placed upon the map, whether it was less than an inch below, or less than an inch above, the average. Wherever the fall was more than an inch in excess of the average a + is shown, wherever it was more than an inch in defect of the average there is a —. Thus it must be remembered that the value of the signs in different parts of the map is not the same, for a + at Seathwaite may mean a fall only 7 per cent. above the average, while a + at Boston might mean a fall 90 per cent. above the average, or nearly double the normal amount. But the maps are only intended to be diagrams expressing clearly the broad features of the rainfall of the month.

JANUARY.

A month of wide-spread wetness. The fall was under the average only at four stations in Ireland, and at but one of these was the defect as much as an inch. Over the whole of Great Britain the fall was excessive, not one station showing less than the average, and only two in England, two in Scotland, and one in Wales, less than an inch above the average. The excess in many places scattered all over the country exceeded 100 per cent., in other words twice the usual amount of rain fell. The rain was fairly uniform in its distribution, and fell on a large number of days, one of which, January 6th, gave the annual maximum at a large number of

stations in Wales, and over most of England. No other month of the year, except May, shows a map containing so many signs of the same name, either plus, minus, or near average.

FEBRUARY.

A wet month in England, Wales and the Southern Uplands of Scotland, but nearly normal in Ireland, and comparatively dry in the north of Scotland. The excessive rainfall in England is very remarkable, and was largely due to severe snowstorms. In Northumberland there was a total precipitation of three times the average amount at Newcastle, and the fall exceeded twice the average over nearly the whole of southern, eastern and central England. Many observers note that this was the wettest February since their record commenced, and the damage done by floods, both in the north and the south of England, emphasises the extraordinary wetness of the month.

Speaking of the British Isles as a whole, the snowfall of the first half of this month was perhaps unprecedented, for no part of Great Britain seems to have escaped, whereas the great fall of January, 1881, was confined in its greatest intensity to the southern half of England, while that of March, 1891, was exceptionally severe only in the south-western districts. Of Scotland we hesitate to speak definitely, for not only does the more broken character of the surface increase the liability to serious drifting, but the comparative paucity of recording stations renders it more difficult to form a reliable opinion.

In heavy snow, as is well known, the records of rain gauges are greatly vitiated if the fall is accompanied by wind, as was generally the case in the month under consideration, and it would probably not be an exaggeration to say that 50 per cent. of the rain gauges in the British Isles caught anything between half and twice the quantity of snow that actually fell. As a natural result, the totals for the month are very irregular, and a considerable amount of uncertainty attaches to some of them. We have a great objection to adjusting the returns received ; but in a few cases we have this year followed the practice adopted with regard to the great snowfall of 1881, and where it was evident that the gauge had caught either greatly too much or too little, have deducted from, or added to, the month and the total for the year an inch. In these cases, the fall in the general tables is printed in italics. This uncertainty should be borne in mind in considering the maximum falls for February.

MARCH.

In very marked contrast to the maps of the two earlier months that for March does not show a single +, and in fact for the whole of the United Kingdoms, except two stations in the North of Scotland, the fall was far below the average. Cold northerly and easterly winds prevailed in all parts of the country, and the only places where the rainfall was less than an inch short were the north-east of Scotland and the south-east of England. At Borrowdale only one-tenth of the normal March rainfall was measured, and at Boston one-quarter of the average; there were very few stations indeed, either in England or Ireland, that received more than one-half of the rainfall usually experienced in this month.

APRIL.

Taken as a whole this was a fairly normal month for rainfall. England and Wales were dry, the two + signs in the north-west showing but a slight proportional excess in a wet region, while in almost every other part of the country the fall was below the average, and in the centre of the country the three — signs show falls of from one-third to one-half of the average amount. Scotland, on the other hand, was rather wet, only two of the east coast stations having less than an average fall. In Ireland the rainfall was nearly normal, only a slight discordance appearing between the south, which was a little drier than the average, and the north, which was a little wetter.

MAY.

The map for May presents a remarkable similarity to that for April, only Ireland on the whole appears a little wetter, England not quite so dry. On looking into the figures of actual falls it is seen that Camden Square very nearly deserves a —, as the rainfall was .97 in. below the average, corresponding to a fall of rather less than half the usual amount. There was a general slight deficiency of rain over England and Wales; but in Scotland and Ireland a marked excess. As confirming the normal character of this month we may note that the Observers' Notes for May are shorter than for any other month in the year.

JUNE.

A wet month over the whole of the British Islands, only five of the fifty stations which are mapped showing falls under the average, and none of these attaining the dignity of a —. In England a number of stations reported the heaviest falls for the month of June which had been experienced for many years. Thunderstorms naturally make the distribution of rainfall very unequal in summer, but it may be noted that the north of England was by far the wettest part of the country, and that this characteristic was shared by the south of Scotland. Over Ireland it would be hardly too much to say that the rainfall averaged twice its normal amount, the month in that country being, as the map clearly shows, very much wetter than most parts of Great Britain.

JULY.

A very dry month, especially in England, where the prolonged drought more than made up for the many violent thunderstorm rains which brought the maximum daily fall to many stations. No station in England or Wales amongst those selected for mapping reached its average, and in the west the dryness of the month was much more pronounced than elsewhere. From Devonshire to the Cumberland Lakes the rainfall ranged between one-half and one-third of the normal amount, and but for the incidence of sporadic thunderstorms we might affirm that for all England the rainfall was deficient by 50 per cent. In Scotland there was a marked deficiency of rain over the south and centre, but the stations of the northern Highlands showed an excess, though as a rule only a slight one. Viewing Ireland as a whole the variations from the average seem to balance each other and the month may be pronounced normal. Dublin had an excess of nearly 70 per cent., and there was a deficiency of about 60 per cent. at Kenmare and at Roche's Point, but all the other stations had very nearly the average.

AUGUST.

A very wet month all over the British Islands, the rain falling partly in thunderstorms but mainly in a series of cyclonic disturbances, which followed each other from the Atlantic in quick succession. At one station in the extreme south-east of England the rain did not exceed the average, but over the whole of the rest of the country and in Wales the fall was excessive, the greatest excess occurring north of a line drawn from Swansea to Boston, and over

the greater part of that area the fall was about twice the normal amount. In Scotland the rainfall exceeded the average at every station but one in the extreme north ; though the excess was not so great as in England and was most marked in the south of the country. Ireland had more than twice the average fall in the middle of the country, but the excess diminished to the north and south, and at the northern and south-western stations the amount was actually, though slightly, below the average. During the month there were some very wet days, which yielded the maximum fall at no fewer than 400 stations.

SEPTEMBER.

A dry month, disputing with its equinoctial companion, March, the distinction of being the driest in the year for the British Islands. It was probably the driest month over the whole of England and Wales (if we exclude Seathwaite). Every station yielded a minus on the map with one exception, and that one showed .89 in. less than the average, so that it was within .11 in. of being — too. There were few stations in the south-east where more than one-third of the normal amount fell ; many had less than one-quarter, and at Hitchin the fall was only one-sixth of the average. Towards the west and north the deficiency amounted to one-half ; but Seathwaite reported very nearly its normal fall. The west of Scotland had more than the average ; and although the month was dry in the south, the greater part of the country showed little variation from the average condition. Ireland was dry, especially in the south, where the fall was less than half the average ; in the north also it was deficient, though only to a small extent.

OCTOBER.

On the whole a wet month, although the distribution was unequal, The great natural dividing line from the Severn to the Humber, which separates England into two distinct physical regions, on this occasion separated it into two distinct rainfall districts. To the south-east the map shows only minuses and dots, the dots in every case representing falls below the average. At one station in the extreme south-east the deficiency amounted to 50 per cent. ; but for the most part it was slight. North of the dividing line the rainfall was in excess over England, Wales and Scotland. The violent

snowstorm of the 26th, in the north of England, accounts for the great excess of rainfall for the month, amounting to 100 per cent., which was recorded at Newcastle, and other stations, in Northumberland, Durham and Yorkshire. Over Ireland there was also a considerable excess, greatest in the north, where it amounted to 100 per cent., and least in the south-east.

NOVEMBER.

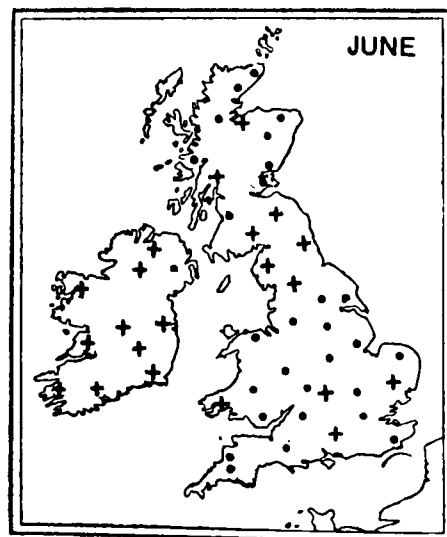
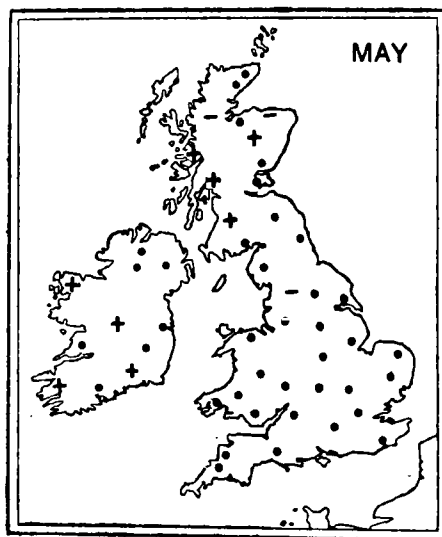
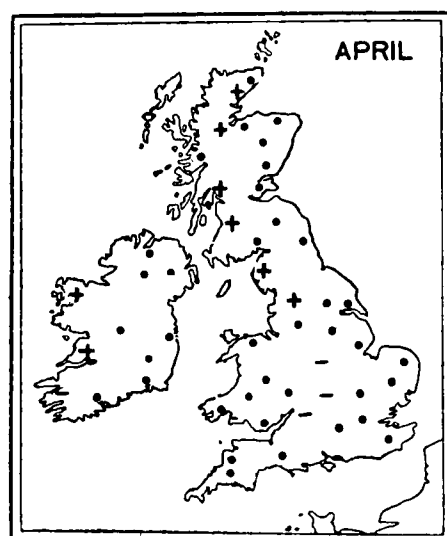
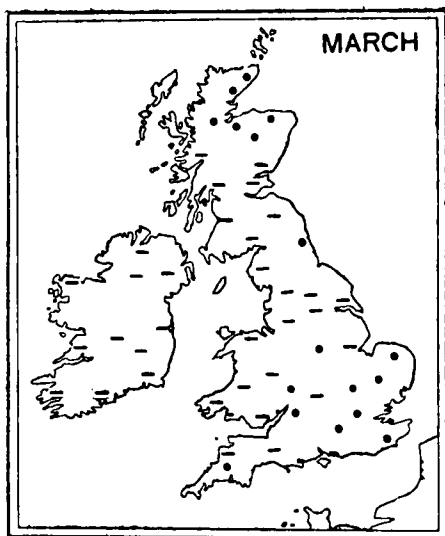
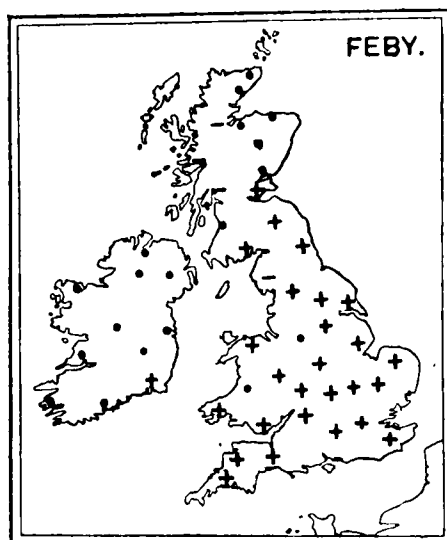
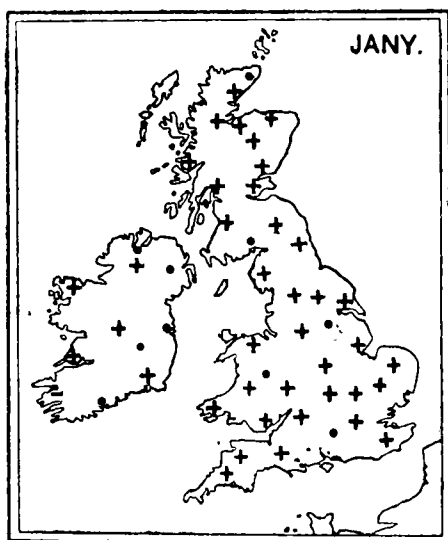
There is nothing calling for very special remark in the rainfall map as regards England ; it is enough to say that the dots in Wales, and the east of England, represent falls less than the average, those in the south-west and north of England represent slight excesses. In Scotland the west coast was relatively drier in comparison with its average than the east, where the rainfall was excessive, the fall in Edinburgh not having been equalled in November since 1772. The west of Ireland also showed a less excess than the east of that island.

DECEMBER.

With the possible exception of February this was the wettest month of the year as regards the actual fall of rain ; relatively to the average it was also extremely wet, although there were no snowstorms to contribute to the marked excess. In looking at the map of England the eye is caught by an Orion's belt of pluses running from the Severn to the Wash. These mark the central zone of the great storm of the 30th, which brought the maximum fall for the year to more than 800 stations. At many of these in the vicinity of the central line the fall of that one day amounted to more than half the total for the month, and accounts for the excess of 100 per cent. over the average. The groups of dots to the north-west and south-east of the central line indicate the smaller excesses of the districts which came within only the outskirts of the great rain. In Scotland and Ireland the effect of the succession of violent cyclonic storms which swept across our islands from the Atlantic during the month is shown by the pluses scattered over those countries, and thrown into relief by the two dots on the east coast of each country, where there was actually a slight (though very slight) deficiency of rain.

One station had a fall during this month so unusual that we may call special attention to it. This was Seathwaite, Borrowdale, with

MAPS OF MONTHLY RAINFALL, 1900.

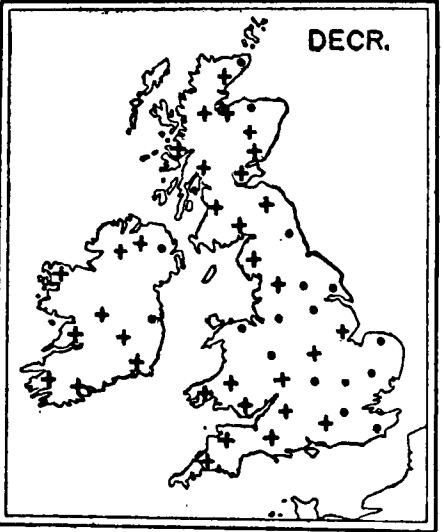
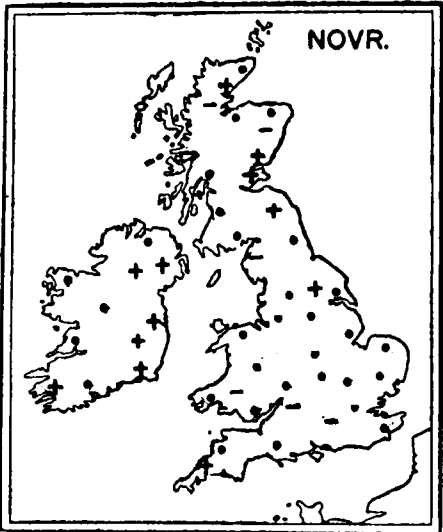
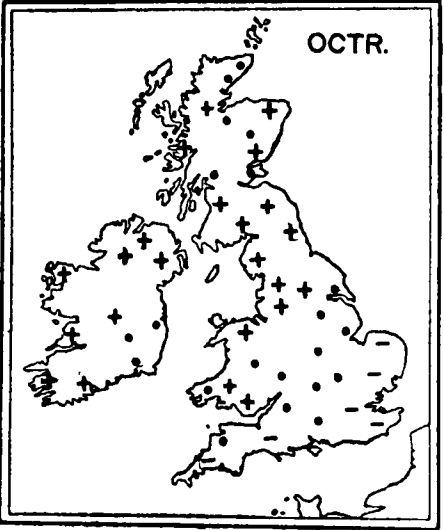
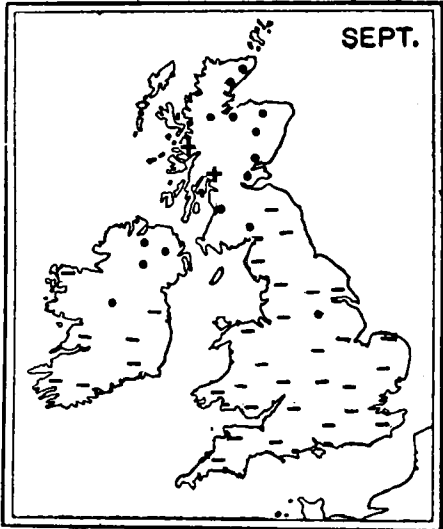
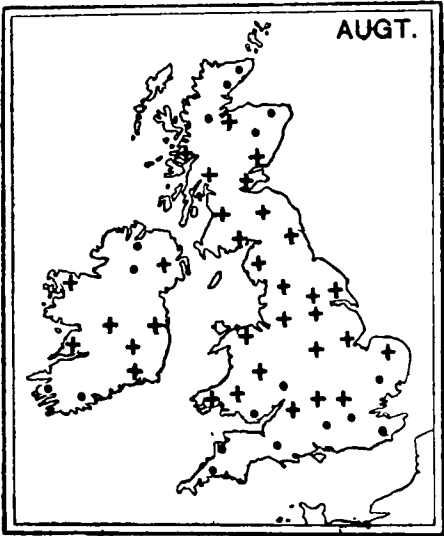


• Within an inch of average.

+ More than 1 in. above average.
 — " " " below "

Between pp. [154] & [155].

MAPS OF MONTHLY RAINFALL, 1900.



• Within an inch of average.

+ More than 1 in. above average.
 — „ „ „ below „

27·31 in., a figure only twice exceeded in December in 50 years. Other falls are also deserving of remark, and the following list gives in order of magnitude those exceeding 10 inches, which appear in the tables.

		in.
Seathwaite	<i>Cumberland</i>	27·31
Glenquoich	<i>Inverness</i> ..	23·24
Loch Torridon (Bendamph)..	<i>Ross</i>	20·79
Stronvar	<i>Perth</i> ..	19·44
Strontian (Laudale)	<i>Argyll</i>	18 04
Oakley Quarries	<i>Merioneth</i>	16·91
Ballachulish (Ardsheal)	<i>Argyll</i>	16·65
Invergarry	<i>Inverness</i>	15·18
Arrochar	<i>Dunbarton</i>	14·38
Dunmanway (Coolkelure) ...	<i>Cork</i>	13·68
Tarbert (Stonefield)	<i>Argyll</i>	12·81
Kenmare (Derreen)	<i>Kerry</i>	12·75
Loch Ness (Whitebridge) ...	<i>Inverness</i>	12·56
Moffat (Ericstane)	<i>Dumfries</i>	12·04
Morvern (Drimnin)	<i>Argyll</i>	11·83
Strathconan (Dalbreac)	<i>Ross</i>	11·55
New Galloway (Glenlee)	<i>Kircudbright</i>	11·09

MONTHLY RAINFALL AT 231 STATIONS IN THE BRITISH ISLES DURING 1900.

ENGLAND.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
I.	Middlesex	London (Camden Square) ...	2.92	3.99	.79	.98	.93	2.26	1.50	2.81	.79	1.86	1.90	2.55	23.28
II.	Surrey	Guildford (Epsom Road).....	3.76	5.92	1.22	.94	1.36	2.96	.92	2.99	.65	2.28	2.22	3.12	28.34
"	Kent	Tenterden	3.31	5.57	1.17	.82	.98	2.14	1.52	1.74	.88	2.07	2.99	3.48	26.67
"	"	Hythe	3.52	5.09	1.01	1.29	1.23	3.03	1.10	2.03	.92	2.92	3.93	3.77	29.84
"	"	Sevenoaks (Riverhead Vic.) ..	3.36	3.86	.87	1.07	1.21	2.65	1.12	2.44	1.09	1.82	2.84	3.46	25.79
"	"	Ospringe (Lorenden)	3.68	5.40	1.33	1.12	1.13	3.05	1.03	2.30	.99	1.60	2.16	2.68	26.47
"	Sussex	Arundel (Patching)	4.44	5.07	1.12	1.34	.65	3.00	1.24	2.64	1.13	2.73	3.68	3.48	30.52
"	"	Maresfield (Forest Lodge) ..	4.05	6.09	.98	1.29	.74	3.26	.99	2.06	1.17	2.35	4.20	4.00	31.18
"	"	I. of Wight (Sandown).....	5.23	6.34	1.33	1.67	1.51	3.52	1.10	2.82	1.31	2.86	4.09	4.83	36.61
"	Hants	Bps. Waltham (Swanmore Ho.)	4.02	5.05	.92	1.90	1.48	3.56	1.78	2.74	.95	2.01	3.74	3.78	31.93
"	"	Basingstoke(Sherborne S.J.) ..	3.06	5.04	1.17	1.42	1.79	3.26	.72	2.52	.95	2.71	2.29	4.02	28.95
"	Berks	Newbury (Welford Park) o.g.	3.33	4.83	1.21	1.00	1.57	3.59	1.47	3.03	.68	2.43	2.58	4.57	30.29
III.	Herts	Hertford (Bayfordbury).....	3.00	4.19	.69	1.36	1.11	2.29	.95	2.96	.59	2.06	2.10	2.80	24.10
"	"	Royston, Therfield Rectory..	2.74	4.28	.78	.91	1.37	3.08	1.15	3.39	.43	2.02	2.09	2.32	24.56
"	"	Slough (Upton)	3.11	4.17	.83	.60	1.64	2.04	.52	2.92	.57	1.93	1.81	2.84	22.98
"	Bucks	Buckingham (Adstock)	3.11	4.57	.63	.51	1.38	3.10	1.49	2.76	.46	2.09	1.82	2.81	24.73
"	"	Henley (Northfield House)..	3.41	4.40	.87	1.23	1.29	2.72	1.25	3.38	.83	2.41	2.37	3.86	28.02
"	Oxford	Oxford (Magdalen Coll.) ...	2.20	4.49	.44	.83	1.15	2.37	1.15	3.07	.36	2.30	1.71	3.27	23.34
"	"	Wellingborough(Swanspool)	3.15	4.96	.70	.75	1.12	2.57	1.25	2.38	.53	1.59	2.00	3.00	24.00
"	Bedford	Aspley Guise (Oaklands) ...	3.12	4.06	.64	.73	1.55	2.24	2.23	3.01	.24	1.96	1.79	2.72	24.29
"	Cambridge	Ely (Stretham)	2.48	2.02	.44	.65	1.14	1.75	1.09	2.21	.36	1.77	1.28	1.71	16.90
"	"	Wisbech (Bank House).....	3.25	3.70	.60	1.25	1.45	2.27	1.39	3.25	.51	2.12	2.17	2.81	24.77
IV.	Essex	Loughton (High Beech) ...	2.62	2.73	.60	.97	.97	2.29	1.23	2.72	.97	2.03	1.89	3.05	22.07
"	"	Chelmsford (High Street).....	2.77	3.14	.97	.78	.88	1.93	.78	2.47	.89	1.54	1.71	2.23	20.09
"	"	Braintree (Bocking Place) ..	3.23	3.50	.65	.70	.94	2.39	1.51	2.91	.54	1.44	1.85	2.75	22.41
"	Suffolk	Ipswich (Bishop's Hill).....	2.85	3.10	.74	1.12	1.03	3.36	1.10	2.64	.65	1.88	2.05	2.41	22.93
"	"	Haverhill (Great Thurlow)..	2.77	2.38	.90	.67	1.00	2.66	1.92	3.36	.37	2.00	2.17	2.36	22.56
"	"	Aldborough (Aldringham Ho.)	2.54	2.25	.93	.70	1.15	4.59	1.04	3.03	1.10	1.79	1.82	2.56	23.50
"	Norfolk	Geldeston [Beccles]	2.66	2.77	.91	1.19	1.61	2.88	1.85	3.65	1.03	1.90	1.65	2.49	24.59
"	"	Swaffham	4.00	3.83	.95	1.24	1.66	2.50	2.18	4.55	.67	2.39	2.73	2.94	29.64
"	"	Holt (Field Dalling)....	3.09	3.61	.81	1.40	1.20	1.78	2.73	4.70	.48	1.97	2.19	3.02	26.98

ENGLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
V.	Wilts	Salisbury (Alderbury)	3.40	4.65	1.35	1.68	1.80	2.39	.59	2.79	.83	2.53	3.10	4.57	29.68
"	"	Trowbridge (W.W. Biss) ..	4.14	5.24	1.80	1.77	2.54	2.73	1.53	3.58	.37	3.22	3.10	6.34	36.36
"	"	Marlborough (Mildenhall) ..	3.24	5.25	1.65	1.68	1.77	2.75	1.37	2.83	.90	2.62	3.70	5.17	32.93
"	Dorset	Beaminster Vic.	5.56	6.41	1.59	1.62	1.97	3.21	.92	2.92	1.25	2.69	4.77	7.45	40.36
"	"	Wimborne (Chalbury)	3.38	4.55	1.04	1.57	1.66	2.16	1.54	2.57	.91	3.00	3.75	4.96	31.09
"	"	Buckhorn Weston	3.14	3.82	.85	1.64	1.56	2.36	1.15	1.89	.24	2.57	2.59	5.66	27.47
"	Devon	Torquay (Watcombe Park) ..	5.80	6.39	1.89	1.32	1.99	3.43	.71	1.96	1.26	2.15	3.50	6.51	36.91
"	"	Walkhampton (Lowery) ...	8.79	7.95	3.02	2.97	3.00	6.59	3.24	4.60	2.55	3.67	6.34	9.94	62.66
"	"	Exeter (Manston Terrace) ...	4.40	5.42	1.16	1.16	1.57	1.98	1.11	1.58	.80	2.26	4.39	4.56	30.39
"	"	Cullompton	4.86	4.61	1.60	1.97	2.02	2.82	1.31	2.49	.93	3.17	4.39	5.36	35.53
"	"	South Molton (East Street) ..	5.26	5.01	1.27	1.89	1.64	2.97	1.46	3.29	2.05	6.41	4.16	6.17	41.58
"	Cornwall	Penzance (Penlee)	7.92	6.56	3.10	2.33	2.11	3.62	.97	3.33	1.71	3.33	7.18	7.41	49.57
"	"	St. Agnes	5.64	6.05	2.71	1.77	2.04	2.45	.96	2.57	2.18	3.31	6.17	5.85	41.70
"	"	Bude	4.87	5.22	1.29	1.23	1.29	3.53	.99	2.89	1.80	4.02	4.93	5.49	37.60
"	"	Ilminster (White Lackington) ..	4.72	5.49	1.51	1.40	1.92	2.09	.79	2.13	.87	2.87	3.53	5.93	33.25
"	Somerset	Glastonbury (Street)	4.41	3.50	1.44	1.42	3.06	2.21	1.08	2.37	.39	2.96	3.10	5.50	31.44
"	"	Holford (Woodlands House) ..	4.59	5.05	1.19	1.32	1.75	2.22	2.24	3.51	.92	4.08	4.72	5.05	36.64
VI.	Gloucester	Clifton (Pembroke Road) ...	4.54	6.40	1.28	1.23	2.53	2.48	.88	2.48	.80	3.99	2.90	5.97	35.48
"	"	Stroud (Upfield)	3.73	6.82	1.22	1.05	2.20	1.98	2.17	3.47	.40	3.39	2.21	6.54	35.18
"	"	Fairford (Hatherop Rec.) ...	3.09	5.25	.96	.92	1.78	2.24	1.36	3.71	.34	2.88	2.48	4.89	29.90
"	"	Moreton-in-Marsh (Longboro') ..	3.38	6.87	.86	.88	2.19	2.30	1.90	5.13	.54	3.31	2.75	5.60	35.71
"	Hereford	Ross (The Graig)	2.97	6.42	1.20	1.06	2.77	1.20	2.68	3.25	.40	4.10	2.18	5.55	33.78
"	"	Leominster (Farm)	3.01	4.42	1.00	1.24	2.47	1.95	1.50	3.21	.63	3.37	2.85	4.80	30.45
"	Salop	Ch. Stretton (Woolstaston) ..	3.11	3.69	1.00	1.69	2.74	2.69	2.38	4.28	.72	3.93	3.24	3.89	33.36
"	"	Much Wenlock (Wiley Pk.) ..	2.45	4.14	1.02	.69	1.93	2.43	1.39	4.09	.76	3.14	2.26	4.01	28.31
"	"	Qswestry (The Mount Res.) ...	4.59	4.70	1.18	1.83	1.96	2.72	1.79	6.35	.93	4.74	2.26	4.46	39.51
"	Stafford	Penkridge (Rodbaston) ...	2.80	3.85	.87	1.10	1.87	2.81	3.62	3.71	1.00	3.69	2.83	4.01	32.16
"	"	Burton (Shobnall)	3.44	3.97	.57	1.19	1.77	2.93	2.83	4.55	1.10	2.70	2.17	3.83	31.05
"	"	Market Drayton (Old Springs) ..	3.07	3.73	1.36	1.17	1.74	2.93	2.88	5.22	1.08	3.84	2.71	4.17	33.90
"	Worcester	Malvern (Madresfield Rec.) ...	3.99	5.06	1.11	1.50	2.24	2.16	2.88	3.18	.62	2.64	1.75	5.17	32.30
"	"	Stourbridge (Pedmore) ...	3.48	4.29	1.04	1.22	1.90	2.95	2.55	2.85	.87	3.15	2.16	4.66	31.12
"	Warwick	Leamington (The Parade) ...	2.65	4.07	.58	.90	1.27	2.87	1.13	3.65	.55	2.04	1.63	4.65	25.99
"	"	Bedworth Cemetery	4.17	4.50	.71	.99	1.81	2.96	1.42	2.90	.51	2.45	2.22	5.44	30.08
VII.	Leicester	Loughboro' (Nan Pantan Res) ..	4.41	4.37	.75	1.23	1.82	2.94	1.77	3.94	.60	2.63	2.53	4.26	31.25
"	"	Belvoir Castle	3.16	4.04	.78	1.31	1.86	2.10	1.59	3.73	.48	1.98	1.98	4.10	27.11

ENGLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
VII.	Rutland	Market Overton	4.09	4.35	.79	.97	1.92	1.83	1.77	4.85	.38	1.80	2.40	4.90	30.05
	Lincoln	Steaoford (Rauceby Hall)	3.45	5.32	.53	1.31	1.59	1.60	1.35	4.31	.46	3.20	2.17	4.23	29.52
	"	Market Rasen	3.21	3.69	.51	1.45	1.40	2.19	2.09	3.57	1.13	2.28	2.15	3.52	27.19
	"	Burton-on-Stather	3.24	3.49	.60	1.01	1.64	2.02	2.07	4.75	.55	2.81	2.73	3.02	27.83
VIII.	Notts	Ollerton(ThoresbyGardens)	3.07	4.21	.51	.69	1.21	2.36	2.28	6.30	1.50	2.84	2.60	3.40	30.97
	Derby	Darby Hall	5.36	5.11	.92	1.65	1.78	3.27	4.17	4.60	1.47	3.46	2.90	5.31	40.00
	Cheshire	Congleton(Buglawton Vic.)	4.14	3.22	.93	1.88	1.38	4.76	2.20	5.58	1.05	4.15	2.07	3.28	34.64
	Lancashire	Manchester (Withington)	3.74	2.50	.63	1.95	1.41	3.10	2.55	3.85	.96	3.38	1.62	3.52	29.21
	"	Ormskirk (Rufford)	4.27	3.02	.76	1.64	1.73	3.55	1.09	5.15	1.62	4.71	3.56	3.70	34.80
	"	Burnley (Swinden, Lower)	5.96	4.78	1.07	2.43	2.34	4.52	3.97	5.60	1.56	5.50	4.02	5.18	46.93
	"	St. Michael's-on-Wyre	4.48	3.29	.59	2.13	1.61	2.60	1.93	4.44	2.14	6.44	3.33	4.71	37.69
	"	Cartmel (Pit Farm)	6.07	5.23	.59	3.16	2.40	4.02	3.29	6.46	3.36	8.38	4.83	6.68	54.47
	York, W.R.	Rotherham (MoorgateGrange)	2.58	3.89	.37	.67	1.44	2.60	2.52	5.08	.58	2.45	2.18	3.63	27.99
	"	Meltham (Harewood Lodge)	7.00	5.69	1.26	3.08	1.78	3.34	3.41	6.41	1.03	5.98	3.22	6.50	48.70
IX.	"	South Milford Rectory	2.96	3.41	.67	.99	1.27	3.89	2.09	6.10	.46	2.98	2.83	2.98	30.63
	"	Malham Tarn	7.15	4.79	.63	3.88	2.53	4.82	3.68	8.03	2.65	9.80	6.97	6.69	61.62
	"	Ripon (Mickley)	3.77	4.57	.74	1.61	1.47	2.69	2.05	5.92	.73	4.36	3.34	2.81	34.06
	York, E.R.	Parrington	2.53	3.02	.37	.81	1.25	2.22	1.42	2.66	.52	2.48	2.35	2.86	22.49
	"	Pocklington (Warter)	4.25	4.56	.79	1.39	1.13	1.92	1.16	5.96	.84	3.60	3.71	3.57	32.88
	"	Lowthorp (The Elms)	3.61	3.84	.92	.89	1.50	1.69	1.17	4.12	.86	3.13	2.72	3.79	28.24
	York, N.R.	Thirsk (Sowerby)	2.10	3.55	.80	.94	1.04	3.98	.91	4.32	.82	4.48	2.13	1.61	26.68
	"	Whitby (Royal Crescent)	2.09	5.54	1.31	1.03	1.35	2.52	.77	5.66	.60	3.61	2.81	1.95	29.24
	"	Lockwood Beck	3.45	5.57	2.05	1.53	1.37	3.21	2.16	7.03	.62	6.52	3.61	2.23	39.35
	Durham	Darlington (Hurdworth Grange)	2.76	5.34	1.21	1.18	1.58	2.97	2.75	6.29	.85	5.07	2.34	1.75	34.09
X.	"	Hartlepool (Hurdworth Buru)	3.36	6.50	2.23	1.00	.96	3.29	1.85	5.70	.62	6.37	2.95	2.83	37.66
	"	Wolsingham	5.00	5.83	1.44	1.74	1.68	3.90	1.26	6.07	.85	6.43	4.29	3.08	41.57
	Northumberland	Haltwhistle (Unthank Hall)	4.39	4.51	.90	1.28	2.26	4.37	1.50	4.97	2.15	4.94	5.24	4.64	43.60
	"	Morpeth (Bothalhaugh Lawn)	3.40	4.09	2.06	1.28	1.40	4.04	2.10	4.97	.84	6.11	3.36	1.88	35.53
	"	Alwinton (Biddleston)	4.64	6.03	3.01	2.24	1.67	4.43	2.01	5.40	1.13	5.81	5.71	3.88	45.96
	"	Howick Hall	3.00	5.45	2.37	1.32	1.11	3.32	1.98	4.97	.96	5.59	3.84	2.19	36.10
	Cumberland	Borrowdale (Seathwaite)	17.67	7.99	1.02	8.98	7.95	8.37	4.17	12.45	10.54	14.62	10.09	27.31	131.16
	"	Brampton (Denton House)	3.08	2.73	.43	3.53	1.92	5.09	2.21	6.22	2.25	5.29	3.08	4.06	39.89
	Westmoreland	Kendal (Ivy Garth)	7.57	4.81	.33	2.98	2.51	3.98	2.69	6.18	2.96	8.67	5.19	9.47	57.34
	"	Appleby (Ormside)	3.14	4.23	.47	2.11	1.60	3.46	2.45	4.62	1.48	5.93	3.26	4.45	37.20
"	"	Lowther Castle	4.01	3.92	.45	2.31	2.65	2.96	1.56	5.66	2.02	6.40	2.37	6.65	40.96

MONMOUTH, WALES AND THE ISLANDS.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XI.	Monmouth.....	Chepstow (Shirenewton Hall)	5.65	8.43	1.22	1.42	2.40	2.51	1.86	3.73	1.77	5.22	3.91	9.02	47.14
"	"	Abergavenny(Larchfield) ..	4.62	8.35	1.42	1.32	2.62	1.30	1.89	4.03	.66	5.54	3.66	6.36	41.77
"	Glamorgan.....	Cardiff Castle	6.07	6.74	1.00	1.85	2.13	2.32	1.21	4.45	1.37	5.98	5.34	6.59	45.05
"	"	Neath (Fairy Land).....	6.43	6.00	1.12	2.15	3.33	4.80	2.32	5.07	2.44	6.36	5.67	7.56	53.25
"	"	Llanelli(Old Market Place) ..	5.98	6.84	1.67	1.55	2.12	3.05	1.98	4.90	1.78	6.34	5.87	5.99	48.07
"	"	Llandovery	4.84	4.80	.84	2.25	3.02	4.89	3.24	6.38	2.57	7.31	3.93	8.74	52.81
"	"	St. David's	4.51	4.99	1.34	1.36	1.75	2.98	1.20	4.40	1.93	4.25	3.82	4.41	36.94
"	"	Aberystwith(NorthParade) ..	3.65	2.51	.63	2.00	2.18	2.84	2.17	6.11	2.45	5.74	4.56	4.20	39.04
"	"	Brecknock (Cantref Rec.) ..	5.69	8.02	1.45	2.15	4.13	2.26	2.28	5.49	1.80	6.72	4.23	9.37	53.59
"	"	Llysdnam [Newbridge] ...	4.96	4.18	1.14	2.29	3.15	4.30	2.89	4.28	1.59	5.92	3.23	7.41	45.34
"	"	Rhayader (Nantgwillt) o.g.	7.55	5.96	1.30	2.97	3.92	3.78	2.25	6.27	1.99	8.33	5.46	9.12	58.90
"	"	Churchstoke(MellingtonHall)	3.69	4.18	1.14	1.46	2.76	2.20	2.03	3.86	.55	3.93	2.85	3.99	32.64
"	"	St. Asaph (Nantllys)	2.23	3.05	1.26	1.28	1.32	1.96	1.11	6.94	.45	4.59	3.78	2.12	30.09
"	"	Rosset (Trevalyn Hall) ...	2.60	3.49	.96	.85	1.48	1.19	1.16	5.25	.79	3.34	2.43	2.44	25.98
"	"	Llanbedr (Minafon)	5.02	3.64	1.09	1.76	2.86	3.03	1.83	5.95	2.66	6.20	5.06	6.59	45.69
"	"	Llanderfel (Palé)	4.18	7.76	1.38	2.40	2.57	3.33	1.76	6.87	1.75	6.73	4.34	6.03	49.10
"	"	Oakley Quarries	11.84	6.06	.29	4.79	4.97	9.34	5.43	14.90	6.97	12.98	11.29	16.91	105.77
"	"	Llanystumdwy (Talarvor) ..	4.79	3.52	.96	1.91	2.35	2.61	1.74	5.48	1.19	4.29	4.76	4.83	38.43
"	"	Llanerchymedd (Llwydiarth)	4.69	4.91	1.07	1.66	2.35	2.63	1.53	7.00	1.82	5.33	3.99	6.13	43.11
"	Anglesey	Douglas (Woodville)	4.71	4.25	1.07	2.79	2.93	2.50	2.31	6.66	2.16	5.97	5.97	5.04	46.36
"	Isle of Man	St. Helier (St. Louis Obs.) ..	3.75	4.45	1.27	1.14	1.12	1.63	1.22	1.92	1.36	2.18	5.96	4.22	30.22
"	Jersey.....	St. Peter Port (Beaulieu) ..	5.22	6.19	1.53	1.30	1.07	2.71	1.27	2.69	1.45	2.96	6.21	5.30	37.90
"	Guernsey														

SCOTLAND.

XII.	Wigton	Garliestown (Galloway House)	6.17	3.86	.48	2.64	3.46	2.55	2.34	5.53	2.69	6.08	5.25	4.47	45.52
"	"	Corsewall ..	2.90	3.61	.21	1.71	2.77	1.48	1.79	3.82	3.17	4.23	3.85	2.67	32.21
"	"	Dalbeattie (Little Richorn) ..	4.99	5.90	.42	2.49	3.71	4.70	2.98	7.36	3.15	5.85	5.45	8.20	55.20
"	"	New Galloway (Glenlee)...	7.58	5.28	.40	3.53	4.98	5.03	3.82	7.02	3.75	7.89	5.96	11.09	66.33
"	"	Lanholm	6.79	5.30	.36	4.03	4.13	7.86	2.06	6.60	4.12	5.84	5.46	8.81	61.36
"	"	Moffat (Ericstane)	7.18	2.86	.47	4.90	4.57	4.85	3.52	4.07	4.38	5.66	5.38	12.04	59.88
"	"	Hawick (Branxholme)	3.59	4.56	1.05	3.08	2.54	5.31	4.35	5.12	2.70	4.30	3.98	5.17	45.75
"	"	Jedburgh (Ancrum Bridge) ..	2.76	4.94	1.34	2.16	1.42	4.99	2.65	5.52	1.40	3.98	4.40	4.13	39.69
"	"	The Hangingshaw	4.85	5.21	1.47	2.29	2.10	4.23	2.76	4.58	1.88	4.66	3.78	4.89	42.69
XIII.	"	Eddlestone (Portmore) ...	4.40	3.75	1.22	2.10	1.56	3.94	3.40	4.22	3.20	4.37	5.05	5.30	42.51

SCOTLAND--(continued.)

Div.	County.	Station.	Jan.	Feb.	March	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XIII.	Berwick	Marchmont House	3.86	4.23	1.99	2.26	1.36	4.32	3.99	6.00	2.03	5.14	4.99	3.63	43.80
"	Haddington	Whittinghame Gardens	3.17	4.36	3.68	1.25	1.59	2.01	3.51	5.44	1.57	3.94	5.30	3.27	39.09
"	Edinburgh	Edinburgh (Blacket Place)	3.38	3.57	1.06	1.35	1.35	2.83	2.92	5.68	1.86	4.87	5.42	4.43	38.72
XIV.	Linlithgow	Linlithgow (Nether Parkley)	4.71	3.34	1.24	2.15	1.74	3.62	4.16	4.02	2.82	2.76	5.96	5.51	42.03
"	Lanark	Biggar (Cambus Wallace)	3.70	2.70	.60	2.30	1.58	2.78	2.50	3.80	2.24	4.32	3.50	6.07	36.09
"	"	Hamilton (Water Works)	5.00	2.10	.30	1.85	2.15	4.00	2.55	4.15	3.50	5.65	5.35	8.30	44.90
"	Ayr	Colmonell	6.00	4.40	.37	3.11	4.01	1.38	2.95	4.11	3.71	6.11	4.62	6.01	46.78
"	"	Dalmellington (Benquhat)	5.54	1.95	.39	2.86	2.55	1.78	3.47	3.39	4.67	6.90	5.31	5.54	44.35
"	"	Kilmarnock (North Craig)	6.05	3.00	.00	2.10	2.50	2.30	4.10	4.50	4.05	6.70	5.90	7.45	48.65
XV.	Dumbarton	Arrochar	10.24	4.75	1.03	5.58	3.14	5.06	3.59	8.09	4.66	5.60	8.20	14.38	81.26
"	Stirling	Buchlyvie (The Manse)	7.16	4.64	1.03	3.38	3.65	4.74	3.99	4.63	6.06	6.78	7.52	9.35	60.93
"	Bute	Rothsay (Barone Cott.)	5.84	3.87	.34	3.17	4.22	2.90	5.11	4.62	4.38	6.60	5.60	7.52	54.17
"	Argyll	Lochgilphead (Polkalloch)	6.70	3.20	.21	2.99	3.42	2.59	4.43	4.65	5.99	5.83	5.75	9.50	55.26
"	"	Morvern (Drimmin)	8.90	4.75	.82	4.74	4.18	4.20	4.48	5.78	6.39	8.27	6.55	11.83	70.89
"	"	Ballachulish (Ardsheal)	10.47	3.95	.48	5.30	6.68	4.20	5.49	6.50	8.82	8.97	5.73	16.65	83.24
"	"	Strontian (Laudale)	11.36	3.78	.89	4.98	7.20	4.55	4.57	7.07	9.54	10.48	6.11	18.04	88.57
"	"	Kintyre (Devaar)	9.57	3.71	.69	3.78	4.09	3.21	3.04	4.58	4.85	5.62	7.78	7.40	58.32
"	"	Tarbert (Stonefield)	10.88	4.34	.61	5.11	6.42	4.04	4.72	6.39	7.00	8.91	9.11	12.81	80.34
"	"	Islay (Ardbeg)	6.87	2.15	1.13	3.62	2.45	2.15	4.31	5.01	4.13	6.47	4.94	7.61	50.84
XVI.	Blackmannan ..	Dollar	6.27	3.37	1.53	2.35	2.76	3.19	4.01	4.28	4.91	4.50	5.77	5.99	48.93
"	Kinross ..	Loch Leven Sluice	5.10	4.00	1.10	2.50	2.40	2.50	3.50	4.40	3.40	3.80	5.80	5.70	44.20
"	Fife	Kilconquhar (Balcarres)	5.40	4.57	2.34	1.62	1.83	2.56	4.71	4.34	2.71	4.95	6.24	4.18	45.45
"	Perth	Stronvar	11.57	4.66	.90	4.70	8.02	5.49	3.26	5.21	6.80	8.09	6.59	19.44	84.73
"	"	Coupar Angus	3.83	3.57	.91	1.85	2.97	2.56	2.49	4.28	1.92	3.47	3.86	3.96	35.67
"	"	Blair Athol	2.98	2.07	.90	2.38	3.22	3.03	2.69	2.11	2.90	3.37	3.56	6.03	35.24
"	Forfar	Broughty Ferry (Airlie Pk.)	3.74	3.31	1.64	1.54	1.62	1.94	4.08	3.86	2.02	3.23	4.55	3.52	35.05
"	"	Kirriemuir (Balnakeilly)	5.00	3.50	1.30	2.20	3.50	3.00	3.20	3.10	2.70	3.60	4.50	4.00	39.60
XVII.	Kincardine	Fettercairn (The Burn)	4.68	4.59	2.20	2.42	2.43	3.06	4.30	3.30	2.68	3.37	4.28	5.37	42.68
"	Aberdeen ..	Coldstone Manse	2.85	4.05	2.61	2.23	1.54	2.62	4.04	4.95	1.58	2.98	3.17	2.87	35.49
"	"	Hadzo House	2.53	4.76	3.48	2.19	1.00	3.29	4.48	3.09	2.01	4.34	3.96	2.69	37.82
"	Banff	Banff (Earl Hill)	3.10	4.62	2.89	1.75	.95	2.52	4.97	3.32	2.01	3.82	2.19	2.41	34.55
"	Moray	Grantown	3.44	2.36	2.78	2.26	1.43	2.38	4.24	3.67	2.47	3.44	2.56	3.11	34.14
"	"	Gordon Castle	3.30	4.57	3.00	2.06	1.04	2.15	5.26	4.56	2.09	3.10	2.98	3.21	37.32
"	Nairn	Cawdor (Budgate)	3.61	1.47	1.79	2.38	1.94	2.41	3.45	5.54	2.78	3.55	3.39	5.11	37.42

SCOTLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XVII.	Nairn	Nairn (Achareidh)	3.03	1.09	1.80	1.89	1.09	1.53	2.90	3.55	1.84	3.22	3.20	3.99	29.13
XVIII.	Ross	Applecross	6.23	3.30	2.05	4.50	5.00	3.75	3.28	6.25	6.85	5.72	7.90	9.72	64.55
"	"	Strathconan (Dalbreac) ..	10.15	2.45	4.14	5.01	1.85	3.27	2.77	3.78	4.15	6.77	5.21	11.55	61.10
"	"	Loch Torridon (Bendamph)	13.12	3.31	2.87	8.63	5.73	4.69	5.53	6.36	10.52	12.50	7.04	20.79	101.09
"	"	Ardross Castle	5.77	3.02	4.00	3.28	1.99	2.39	5.55	4.21	2.82	4.62	5.24	7.77	50.66
"	Inverness	Glen Quoich	17.44	5.04	1.79	7.73	6.68	4.19	6.62	8.02	9.70	13.21	5.95	23.24	109.61
"	"	Invergarry	9.17	1.30	.94	2.19	3.20	1.77	5.35	4.28	5.50	3.80	3.58	15.18	56.26
"	"	Loch Ness (Whitebridge)..	5.78	1.69	1.07	3.35	2.49	2.53	4.80	3.90	4.01	4.02	4.58	12.56	50.78
"	"	Alvie Manse	3.40	1.40	(1.50)	2.79	2.38	2.52	3.01	3.98	3.68	4.12	2.48	5.21	36.47
XIX.	"	Invershin	4.01	1.28	3.23	3.87	1.35	2.34	3.38	4.29	1.84	4.81	4.38	5.93	40.71
"	"	Dunrobin Castle	4.42	1.19	2.51	2.95	1.85	2.40	5.29	3.15	2.34	2.76	4.34	5.19	38.39
"	Caithness	Wick	2.20	2.57	2.14	1.97	2.66	1.57	4.20	2.29	3.19	3.48	3.72	3.15	33.14
"	"	Watten Station.....	2.40	1.75	1.68	1.63	1.82	2.41	4.05	2.44	2.48	3.24	3.09	2.86	29.85
"	Shetland	Sumburghead(Dunroseness)	5.76	2.41	1.50	2.77	1.86	1.13	2.51	1.76	3.99	5.61	3.32	7.14	39.76

IRELAND.

XX.	Cork	Dunmanway (Coolkelure) .	7.30	5.91	2.20	4.13	5.33	8.88	2.58	5.54	3.23	10.43	10.11	13.68	79.32
"	"	Cork (Palace)	3.27	4.24	.71	1.52	2.53	3.84	1.54	3.08	.68	4.94	4.14	6.11	36.60
"	"	Mallow (Summer Hill)	3.50	4.07	.64	1.70	2.54	4.36	1.66	4.01	.83	5.50	6.34	5.66	40.81
"	Kerry	Darrynane Abbey.....	3.56	3.07	1.64	3.30	2.23	3.77	1.59	3.25	1.51	4.24	7.53	4.84	40.53
"	"	Kenmare (Derreen)	5.43	6.82	3.26	3.38	4.89	8.70	2.14	4.77	2.77	10.09	8.79	12.75	73.79
"	Waterford	Waterford (Brook Lodge)..	5.26	5.34	.99	1.98	3.41	4.35	3.54	4.82	1.74	4.16	7.43	5.37	47.79
"	Tipperary	Clonmel (Bruce Villa)	3.86	4.22	1.01	1.68	2.50	4.54	2.75	3.92	1.00	4.69	5.62	3.80	39.59
"	"	Nenagh (Castle Lough) ...	5.81	3.24	.50	2.76	2.25	4.42	2.55	7.02	1.53	5.53	5.17	5.68	46.46
"	"	Ballingarry (Hazel fort) ...	4.55	2.34	.57	2.00	2.12	3.89	1.85	7.48	1.31	4.40	4.15	3.90	38.56
"	Limerick	Limerick (Roxborough) ...	5.00	3.20	.83	2.36	1.77	4.07	2.22	6.32	1.31	4.32	5.20	4.84	41.44
"	Clare	Killadysert (Paradise Hill)	6.18	3.54	.88	3.21	2.73	6.16	3.02	8.25	2.28	6.30	6.47	6.33	55.35
"	"	Miltown Malbay	5.06	3.32	1.59	3.78	2.92	6.73	3.30	7.43	2.93	7.11	5.66	6.11	55.94
XXI.	Wexford	Ballyhyland	3.71	5.45	1.13	2.81	3.29	4.88	3.80	4.42	1.32	5.05	8.99	4.76	49.61
"	"	Gorey (Courtown).....	2.86	7.29	.75	1.53	2.84	3.09	2.89	4.52	.87	3.79	7.22	3.20	40.85
"	Kilkenny	Graigue (Brandondale) ...	3.46	5.45	.75	2.36	3.14	5.45	4.37	3.12	1.37	4.65	8.70	3.53	46.35
"	"	Lavinstown (Millmount) ...	3.97	3.23	.76	1.91	2.04	4.22	4.64	4.07	1.06	3.59	6.07	3.22	38.78
"	Wicklow	Bray (Fassaroe)	4.13	6.38	1.29	1.95	2.97	2.67	4.17	6.88	.97	3.44	6.76	3.63	45.24
"	Carlow	Carlow (Browne's Hill) ...	2.86	2.94	1.00	2.56	2.47	5.35	4.17	5.70	1.32	3.95	9.26	4.26	45.84

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)...	4.38	3.92	1.56	2.38	2.92	4.92	3.54	6.87	1.71	5.05	5.78	3.92	46.95
	Kildare	Straffan House.....	3.46	2.78	1.60	1.98	2.34	5.92	4.15	7.04	1.78	3.48	5.34	3.40	43.27
	Dublin	Glasevin(BotanicGardens)	3.05	3.40	1.09	1.83	2.01	4.05	4.21	6.08	1.06	3.52	5.26	1.99	37.55
	Meath	Athboy	4.25	2.25	.87	2.94	1.96	4.45	2.76	7.69	1.27	4.20	6.30	4.18	43.12
	"	Moynalty (Westland)	3.88	2.45	.65	2.59	2.24	2.92	2.08	5.86	1.78	5.05	6.00	4.48	39.98
	"	Athlone (Twyford)	4.38	2.41	.45	2.60	2.53	4.84	2.48	7.38	2.03	6.55	4.52	4.43	44.60
	"	Mullingar (Belvedere)	4.27	2.34	.69	3.02	2.12	4.94	1.92	7.21	1.73	4.78	5.07	4.83	42.92
	Louth	Ardee (Lissrenny).....	2.97	1.99	.71	2.12	2.07	4.36	4.82	6.15	1.42	3.58	4.78	2.83	37.80
	"	Greenore	2.88	2.92	.65	2.09	2.32	3.85	4.30	4.00	1.80	4.57	7.11	3.42	39.91
	Galway	Ballinasloe	5.43	2.52	.80	2.60	4.05	4.76	2.68	6.34	2.07	6.30	4.90	5.47	47.92
XXII.	"	Kylemore House	7.99	4.83	.86	5.23	8.74	9.01	3.71	5.24	4.01	8.90	6.40	8.77	75.53
	"	Tuam (Gardenfield)	5.31	3.48	.86	2.95	4.62	5.03	1.61	5.24	2.43	5.82	5.68	7.13	50.16
	Roscommon	Roostey	4.04	2.69	.51	2.88	3.01	3.50	2.41	3.99	2.36	4.93	4.15	4.54	39.01
	Mayo	Ballinrobe (Cranmore).....	6.57	3.17	1.08	3.23	5.81	6.23	2.85	4.76	2.48	6.47	5.67	8.28	56.60
	"	Crossmolina (Enniscoe) ...	6.43	3.75	2.03	3.84	5.36	6.55	2.68	5.92	2.81	8.48	6.64	9.30	63.79
	"	Ballymote (New Park) ...	5.15	3.55	3.10	3.35	4.00	4.90	1.25	4.70	2.75	5.55	4.60	5.95	48.85
	Sligo	Ballysadare (Glen Lodge)..	5.89	2.79	1.22	2.80	4.07	4.84	1.63	5.18	2.95	5.73	6.75	6.02	49.87
	"	Stradone House	4.36	3.62	.80	2.60	3.10	4.45	2.32	3.96	2.08	5.07	5.73	4.69	42.78
	Cavan	Ballyconnell House.....	4.71	3.53	.60	3.01	3.03	3.34	2.43	5.72	2.72	5.36	5.64	5.22	45.31
	"	Dartrey	3.46	2.83	.96	2.79	2.02	3.14	2.67	4.22	2.04	4.76	6.05	4.79	39.73
XXIII.	Armagh.....	Bridge Street [Newry] ...	3.59	3.01	.57	2.79	3.23	4.12	4.45	4.09	1.89	4.69	5.80	4.96	43.19
	"	Armagh.....	2.76	2.57	.61	2.02	2.74	2.83	2.69	5.18	1.98	3.78	5.66	3.63	36.45
	"	Seaford	2.37	4.18	1.20	2.81	3.30	3.20	4.17	5.08	1.56	4.88	6.06	5.26	44.07
	"	Donaghadee	3.14	2.76	.66	2.73	2.93	2.67	2.89	5.72	2.06	4.00	5.29	2.92	37.77
	"	Belfast (Springfield).....	3.95	3.34	1.12	3.98	3.10	3.89	4.50	5.59	2.76	4.86	5.53	3.47	45.89
	Antrim	Ballymena.....	4.16	3.97	1.36	3.82	3.86	3.92	3.21	4.44	2.66	5.46	6.02	3.95	46.93
	"	Bushmills (Dundarave) ...	4.47	2.83	.83	3.15	2.33	3.37	2.81	4.04	3.52	5.15	5.63	4.16	42.29
	"	Garvagh (Moneydig)	3.55	3.54	1.13	2.92	3.42	5.22	3.25	4.17	2.37	4.71	5.43	3.65	43.36
	Londonderry	Stewartstown (The Square)	3.59	3.30	.83	3.02	3.04	5.25	3.81	4.78	2.32	4.78	5.67	4.15	44.54
	Tyrone	Omagh (Edenfel)	4.53	2.49	.79	2.76	2.88	5.22	3.33	4.15	2.84	6.02	6.55	5.04	46.60
"	Donegal.....	Killybegs	6.66	2.90	1.61	3.64	4.17	5.72	2.96	4.73	4.32	6.39	8.22	6.61	57.93
	"	Horn Head	4.85	4.18	1.27	2.80	3.48	4.12	2.34	4.90	3.12	5.96	6.20	5.90	49.12

ON THE RELATION OF THE TOTAL FALL OF RAIN IN 1900 TO THE AVERAGE.

IN comparing the relative wetness or dryness of the year under review, in different parts of the British Islands, it would be best to compare the annual rainfall at a great number of stations with the true average, or normal rainfall, at the same points. But comparatively few records have been continued for a long enough time to yield absolutely true averages and it has been usual to take advantage of the much larger number for which the average for ten years is available. We might this year employ the average of the last completed decade, 1890-99, for this purpose; but it is undesirable to do so because the average used in the Rainfall Tables of the *Meteorological Magazine* for 1900 was still that of the previous decade, and although the differences are not very great some confusion would inevitably arise if separate standards were used in the two publications. Therefore we retain for the comparison of 1900 the average used from 1890 onwards.

The variation from the average at 167 selected stations is given in the accompanying table and expressed diagrammatically upon the map. A dot on the map indicates that during the year 1900 the rainfall was within 10 per cent. of the average amount, a + indicates that it was more than 10 per cent. greater, and a — that it was more than 10 per cent. less, than the average, while a + or a — sign enclosed in a circle indicates that the excess or defect exceeded 25 per cent.

The distribution of the stations over England and Wales is satisfactorily close and uniform, the 94 stations shown averaging one for every 620 square miles. The distribution in Scotland is unfortunately worse than it was previously on account of the lapse of an old-established station in the North-West Highlands where there is nothing in the vicinity to fall back upon, and thus the 42 stations averaging one for every 710 square miles give somewhat undue prominence to the Lowlands and Southern Uplands, while

the West Highlands are poorly represented. Except for two gaps, one in the northwest, the other in the southwest, the 31 stations in Ireland are well distributed, though there is only one for every 1,000 square miles.

The abstract shows that the mean of the 94 stations for England and Wales was 6 per cent. above the average, and no fewer than 66 stations, or more than two thirds of the whole number, differed less than 10 per cent. from the average. The number of stations at which the rainfall was below the average was 25 and of these, only five differed from the average by more than 10 per cent.

For Scotland the 42 stations showed falls above the average without a single exception, and only two of less than 10 per cent., the mean excess being 20 per cent, while as many as 16 stations showed an excess of more than 25 per cent.

For Ireland the 31 stations showed a mean excess of 16 per cent., only one station had less than the average, the deficiency not reaching 10 per cent., five stations showed an excess smaller than 10 per cent, and five showed an excess greater than 25 per cent.

The 167 stations representing the whole country showed mean excess of 12 per cent. over the average.

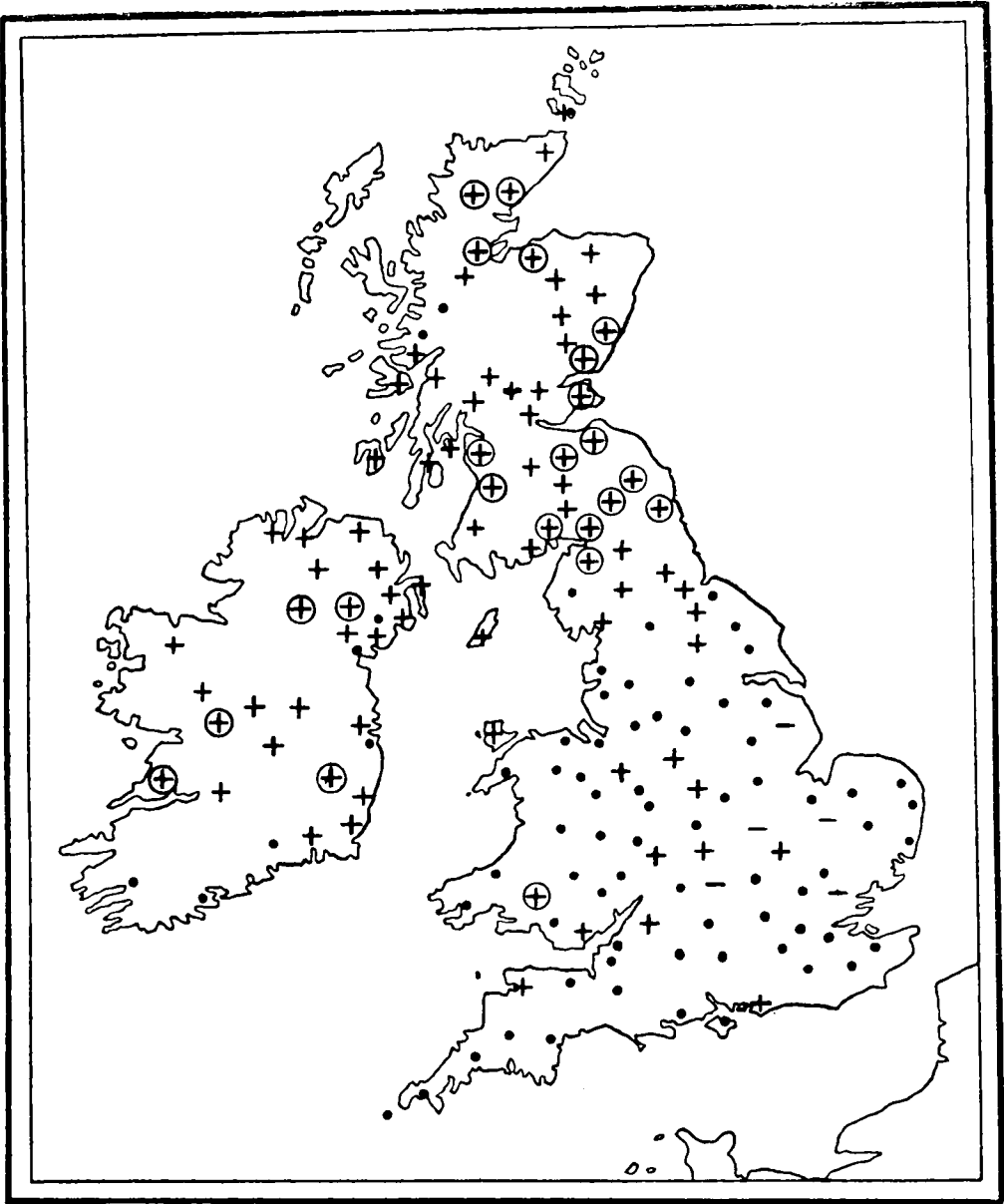
ABSTRACT.

COUNTRIES.	No. of Records.	Average 1880-89.	1900.	Diff. from Average. 1880-89.	
				Amount.	Per cent.
		in.	in.	in.	
England and Wales...	94	34·22	36·37	2·15	+ 6
Scotland.....	42	44·44	53·38	8·94	+ 20
Ireland	31	39·14	45·48	6·34	+ 16
Mean of all Stations...	167	37·70	42·34	4·64	+ 12

Stated broadly 1900 was wetter than the average of the ten years 1880-89; only a little in the case of England and Wales, but to a very marked degree in Scotland and Ireland.

The details of the distribution are interesting. There was a noticeable deficiency of rainfall only in the East of England between the Humber and the Thames where the driest station Ely, Stretham showed a defect of just 25 per cent. Although the surrounding stations were by no means uniformly dry most of them show considerable minus values, and the figure is specially supported by

DIFFERENCE OF TOTAL RAINFALL IN 1900 FROM
THE AVERAGE OF 1880-89.



The round dot indicates a rainfall within 10 per cent of the average.
The + and — respectively show excess or defect of between 10 and 25 per cent.
The same signs enclosed by a ring indicate a departure from the average of more than 25 per cent.

the —18 per cent. at Wellingborough. The remainder of England and Wales south of latitude 54° had very nearly average rainfall except at a few points in the valley of the Severn and in Staffordshire. The ringed plus (+ 33) at Llandilo stands quite by itself, the only other departures from the average of more than 10 per cent. in Wales being + 14 at Cardiff Castle and + 18 in Anglesea.

The north of England and south of Scotland were very wet, the two ringed pluses at Carlisle and Pawston adjoining a group of no less than twelve in the south and east of Scotland. Another group of four ringed pluses is found round the Moray Firth, a region of comparatively low annual fall.

At the following ten Scottish stations the fall exceeded the average by more than 30 per cent. and it will be noticed that nearly all of these are in the drier parts of the Kingdom for at only two of them is the average fall above 40 inches.

Gatehouse (Cally)	<i>Kirkcudbright</i> ...	+ 37 per cent.
Cargen [Dumfries]	" ...	+ 33 ,,
St. Boswells (Elliston)	<i>Roxburgh</i>	+ 34 ,,
Prestonkirk (Smeaton)	<i>Haddington</i>	+ 32 ,,
Kilmarnock (North Craig)	<i>Ayr</i>	+ 36 ,,
Gorbals, W.W. (Waulk Glen)...	<i>Renfrew</i>	+ 33 ,,
Kilconquhar (Balcarres)	<i>Fife</i>	+ 37 ,,
Montrose (Sunnyside Asylum)...	<i>Forfar</i>	+ 31 ,,
Nairn (School House)	<i>Nairn</i>	+ 32 ,,
Alness (Ardross Castle)	<i>Ross & Cromarty</i>	+ 43 ,,

It may be that the fall in the northwest of Scotland was equally in excess of the average, but unfortunately there are no stations still at work for which the average is available.

In Ireland the southwest was the region of least excessive rain and yielded at Cork the only record in the table of less than the average. In all other parts of the country the excess was well marked but so irregular as to be difficult to describe. In the north and generally round the east and south coasts it ranged between 10 and 20 per cent., while over the main central area of the kingdom it exceeded 20 per cent. and in Carlow and Galway exceeded 30 per cent.

Carlow (Browne's Hill)	<i>Carlow</i>	+ 36 per cent.
Ahascragh (Clonbrock)... ..	<i>Galway</i>	+ 33 ,,

COMPARISON OF THE RAINFALL OF THE YEAR 1900,
WITH THE AVERAGE OF THE YEARS 1880-89.

ENGLAND & WALES.

DIV.	COUNTY.	STATION.	Average, 1880-9.	Depth in 1900.	Difference from average, 1880-9.	
					Amount.	Per cent.
			in.	in.	in.	
I.	Middlesex	London (Camden Square)	25·45	23·28	2·17	— 9
II.	Surrey	Dorking (Abinger Hall)	30·60	32·13	1·53	+ 5
„	Kent	Tenterden	28·11	26·67	1·44	— 5
„	„	Sheldwich	28·70	30·36	1·66	+ 6
„	„	Sevenoaks (Riverhead Vic.) ..	28·37	25·79	2·58	— 9
„	Sussex, West...	Chichester (Chilgrove)	32·83	38·90	6·07	+ 18
„	„ East	Maresfield (Forest Lodge)	31·41	31·18	·23	— 1
„	Hampshire.....	Isle of Wight (Osborne)	27·29	29·57	2·28	+ 8
„	„	Christchurch (Mudeford)	27·01	26·98	·03	— 0
„	„	Alresford (Ovington)	31·02	33·37	2·35	+ 8
„	Berkshire	Newbury (Welford Park) <i>n.g.</i>	30·27	30·71	·44	+ 1
III.	Hertfordshire..	Hertford (Bayfordbury)	25·04	24·10	·94	— 4
„	Buckingham...	Slough (Langley)	24·37	22·60	1·77	— 7
„	„	Winslow (Addington Manor) ..	27·97	26·80	1·17	— 4
„	Oxfordshire ...	Oxford (Magdalen Coll.)	26·19	23·34	2·85	— 11
„	Northampton...	Wellingboro' (Croyland Abbey)	28·67	23·56	5·11	— 18
„	Bedfordshire...	Bedford (Milton Ernest)	23·87	27·54	3·67	+ 15
„	Cambridgeshire	Ely (Stretham)	22·39	16·90	5·49	— 25
„	„	Wisbech (Bank House).....	25·27	24·77	·50	— 2
IV.	Essex	Chelmsford (High Street).....	23·01	20·09	2·92	— 13
„	„	Saffron Walden (Newport) ...	24·82	25·92	1·10	+ 4
„	Suffolk	Rendlesham Hall	24·83	24·78	·05	— 0
„	„	Ixworth (Walsham-le-Willows)	26·13	26·09	·04	— 0
„	Norfolk	Geldeston [Beccles]..... <i>5 in. g.</i>	23·90	24·59	·69	+ 3
„	„	Sprowston (Oak Lodge).....	26·11	26·08	·03	— 0
„	„	Swaffham (Dunham)	28·76	28·53	·23	— 1
V.	Wilts	Salisbury Plain (Chitterne Ho.)	28·26	29·17	·91	+ 3
„	„	New Swindon	28·38	25·98	2·40	— 8
„	Dorset.....	Beaminster Vicarage	38·47	40·36	1·89	+ 5
„	Devon.....	Ashburton (Druid House).....	51·28	54·98	3·70	+ 7
„	„	Polapit Tamar	38·18	41·15	2·97	+ 8
„	„	Bampton (Huntsham)	44·52	46·64	2·12	+ 5
„	„	Barnstaple (Arlington Court)..	52·85	61·81	8·96	+ 17
„	Cornwall	Marazion	38·68	42·35	3·67	+ 9
„	„	St. Austell (Trevarna)	47·10	49·95	2·85	+ 6
„	Somerset	Glastonbury (Street)	31·16	31·44	·28	+ 1
VI.	Gloucestershire	Clifton (Pembroke Road)	36·08	35·48	·60	— 2
„	„	Stroud (Upfield).....	30·91	35·18	4·27	+ 14
„	Hereford	Ross (The Graig)	31·18	33·78	2·60	+ 8
„	„	Kington (Lynhales)	35·32	35·00	·32	— 1
„	Shropshire.....	Bishop's Castle (Castle Street).	34·08	33·80	·28	— 1

ENGLAND & WALES.—Continued.

DIV.	COUNTY.	STATION.	Average, 1880-9.	Depth in 1900.	Difference from average, 1880-9.	
					Amount.	Per cent.
VI.	Shropshire	Shifnal (Haughton Hall)	28·54	27·60	·94	— 3
„	„	Market Drayton (Buntingsdale)	28·03	31·38	3·35	+ 12
„	Stafford	Dennis [Stourbridge]	28·07	30·25	2·18	+ 8
„	„	Burton (Shobnall)	25·86	31·05	5·19	+ 20
„	„	Cheadle (The Heath House)	32·71	37·54	4·83	+ 15
„	Worcester	Northwick Park	30·09	35·89	5·80	+ 19
„	„	Grt. Malvern (Church Street)	29·49	29·79	·30	+ 1
„	Warwick	Shipston (Compton Wynyates)	28·67	32·00	3·33	+ 12
„	„	Coventry (Priory Row)	28·94	30·85	1·91	+ 7
VII.	Leicester	Thornton Reservoir	27·69	30·32	2·63	+ 9
„	Rutland	Market Overton	28·54	30·05	1·51	+ 5
„	Lincoln	Stubton [Newark]	27·44	27·76	·32	+ 1
„	„	Horncastle (Bucknall)	25·96	21·74	4·22	— 16
„	„	Brigg	27·22	28·15	·93	+ 3
„	Nottingham	Worksop (Hodsock Priory)	25·84	27·10	1·26	+ 5
„	Derby	Matlock Bath	36·62	38·49	1·87	+ 5
VIII.	Cheshire	Chester Nurseries	29·08	31·58	2·50	+ 9
„	„	Chelford (Astle Hall)	30·73	33·43	2·70	+ 9
„	„	Torrside Reservoir	44·65	45·81	1·16	+ 3
„	Lancashire	Ormskirk (Rufford)	31·86	34·80	2·94	+ 9
„	„	Over Darwen (St. James's Vic.)	46·56	50·75	4·19	+ 9
„	„	Kirkham (Weeton)	37·04	38·08	1·04	+ 3
„	„	Cartmel (Holker)	42·25	51·96	9·71	+ 23
IX.	York W. Ridng.	Wakefield Prison	28·02	29·72	1·70	+ 6
„	„ „	Knaresborough (Farnham)	27·37	31·08	3·71	+ 14
„	„ „	Malham Tarn	57·71	61·62	3·91	+ 7
„	„ E. Ridng.	Pocklington (Warter)	30·46	32·88	2·42	+ 8
„	„ N. Ridng.	Old Malton	26·90	27·17	·27	+ 1
„	„ „	Northallerton (The Lodge)	25·77	31·23	5·46	+ 21
„	„ „	Guisborough (Hutton Hall)	33·97	35·41	1·44	+ 4
X.	Durham	Darlington (Cleveland Parade)	26·37	32·25	5·88	+ 22
„	„	Wolsingham	35·27	41·57	6·30	+ 18
„	Northumberland	Haltwhistle (Unthank Hall)	35·97	43·60	7·63	+ 21
„	„	Rothbury (Crag-side)	34·03	44·02	9·99	+ 29
„	„	Pawston [Coldstream]	30·00	41·09	11·09	+ 37
„	Cumberland	Borrowdale (Seathwaite) <i>4in.g.</i>	129·00	131·16	2·16	+ 2
„	„	Carlisle Cemetery	30·34	39·56	9·22	+ 30
„	Westmoreland	Kirkby Stephen	39·62	46·40	6·78	+ 17
XI.	Monmouth	Abergavenny (Larchfield)	38·65	41·77	3·12	+ 8
„	Glamorgan	Cardiff Castle	39·55	45·05	5·50	+ 14
„	„	Neath	50·13	54·86	4·73	+ 9
„	Carmarthen	Llandilo (Dynevour Castle)	51·17	67·83	16·66	+ 33
„	Pembroke	Pembroke (Stackpole Court)	41·59	42·47	·88	+ 2
„	„	Castle Malgwyn [Llechryd]	45·29	43·38	1·91	— 4
„	Brecknock	Cantref Rectory	51·27	53·59	2·32	+ 5
„	Radnor	Rhayader (Nantgwillt) .. <i>o.g.</i>	62·80	58·90	3·90	— 6
„	Montgomery	Churchstoke (Mellington Hall)	32·07	32·64	·57	+ 2

ENGLAND & WALES.—*Continued.*

DIV.	COUNTY.	STATION.	Average, 1880-9.	Depth in 1900.	Difference from average, 1880-9.	
					Amount.	Per cent.
			in.	in.	in.	
XI.	Flint	St. Asaph (Nantllys)	28·87	30·09	1·22	+ 4
„	Merioneth	Llanderfel (Palé)	47·47	49·10	1·63	+ 3
„	Carnarvon	Llanystumdwy (Talarvor) ..	36·53	38·43	1·90	+ 5
„	Anglesea	Llanerchmedd Llwydiarth Esgob	36·63	43·11	6·48	+ 18
„	Isle of Man ...	Douglas (Woodville)	40·60	46·36	5·76	+ 14
„	Scilly	St. Mary's	32·42	34·14	1·72	+ 5

SCOTLAND.

XII.	Kirkcudbright.	Dalbeattie (Colvend Manse) ...	36·08	45·11	9·03	+ 25
„	„	Gatehouse (Cally)	49·15	67·12	17·97	+ 37
„	„	Cargen [Dumfries]	39·74	52·92	13·18	+ 33
„	Dumfries	Langholm (Ewes School)	52·81	67·80	14·99	+ 28
„	„	Moffat (Ericstane)	52·63	62·00	9·37	+ 18
„	Roxburgh	St. Boswells (Elliston)	28·73	38·64	9·91	+ 34
XIII.	Berwick	Marchmont House	34·01	43·80	9·79	+ 29
„	Haddington ...	Prestonkirk (Smeaton)	24·44	32·17	7·73	+ 32
„	Edinburgh.....	Pentland Hills (Glencorse) ...	39·21	49·50	10·29	+ 26
XIV.	Lanark	Biggar (Cambus Wallace).....	29·98	36·09	6·11	+ 20
„	„	Airdrie (Hillend Res.)	35·80	44·85	9·05	+ 25
„	Ayr	Girvan (Pinmore)	48·25	56·09	7·84	+ 16
„	„	Kilmarnock (North Craig) ...	35·77	48·65	12·88	+ 36
„	Renfrew.....	Gorbals W.W. (Waulk Glen)..	43·32	57·80	14·48	+ 33
XV.	Dumbarton ...	Arrochar	74·10	81·26	7·16	+ 10
„	Stirling	Stirling (Polmaise Gardens)...	33·79	41·32	7·53	+ 22
„	Bute	Rothsay (Barone Cottage) ...	46·04	54·17	8·13	+ 18
„	Argyll	Appin (Airds)	53·62	61·91	8·29	+ 15
„	„	Strontian (Laudale)	78·71	88·57	9·86	+ 13
„	„	Tarbert (Stonefield)	69·63	80·34	10·71	+ 15
„	„	Islay (Ardbeg)	45·25	50·84	5·59	+ 12
„	„	Mull (Quinish)	57·28	67·63	10·35	+ 18
XVI.	Fife	Kilconquhar (Balcarres)	33·18	45·45	12·27	+ 37
„	Perth	Bridge of Turk	66·09	75·45	9·36	+ 14
„	„	Balquhiddier (Stronvar).....	73·44	84·73	11·29	+ 15
„	„	Crieff (Ochertyre).....	40·30	45·94	5·64	+ 14
„	Forfar	Broughty Ferry (Airlie Park). ..	27·27	35·05	7·78	+ 29
„	„	Kirriemuir (Lintrathen)	34·62	40·70	6·08	+ 18
„	„	Montrose (Sunnyside Asylum)	25·74	33·81	8·07	+ 31
XVII.	Aberdeen	Braemar	35·57	39·45	3·88	+ 11
„	„	Cromar (Logie Coldstn. Manse)	28·62	35·49	6·87	+ 24
„	Banff	Keith	29·98	35·74	5·76	+ 19
„	Elgin	Grantown	28·65	34·14	5·49	+ 19
„	Nairn	Nairn (School House)	22·61	29·89	7·28	+ 32
XVIII.	Ross, West ...	Strathconan (Dalbreac).....	49·76	61·10	11·34	+ 23

SCOTLAND—Continued.

DIV.	COUNTY.	STATION.	Average, 1880-9.	Depth in 1900.	Difference from average 1880-9.	
					Per Amount.	cent.
			in.	in.	in.	
XVIII.	Ross, East	Alness (Ardross Castle).....	35·31	50·66	15·35	+ 43
„	Inverness, West	Loch Shiel (Glenaladale)	104·18	112·36	8·18	+ 8
„	„	Glenquoich	102·64	109·61	6·97	+ 7
XIX.	Sutherland.....	Invershin	31·50	40·71	9·21	+ 29
„	„	Golspie (Dunrobin Castle).....	30·00	38·39	8·39	+ 28
„	Caithness	Watten, H.R.S.	27·01	29·85	2·84	+ 11
„	Orkney	S. Ronaldshay (Roeberry).....	31·61	34·88	3·27	+ 10

IRELAND.

XX.	Cork	Cork (Roche's Point).....	46·46	42·35	4·11	— 9
„	Kerry	Kenmare (Derreen)	67·99	73·79	5·80	+ 9
„	Waterford.....	Waterford (Brook Lodge).....	38·31	47·79	9·48	+ 25
„	„	Glenam [Clonmel]	42·15	43·74	1·59	+ 4
„	Tipperary	Derry Castle [Killaloe]	46·33	56·07	9·74	+ 21
„	Clare	Miltown Malbay.....	44·12	55·94	11·82	+ 27
XXI.	Wexford	Enniscorthy (Ballyhyland) ...	42·80	49·61	6·81	+ 16
„	„	Gorey (Courtown House)	35·39	40·85	5·46	+ 15
„	Wicklow	Bray (Fassaroe)	43·28	45·24	1·96	+ 5
„	Carlow	Carlow (Browne's Hill).....	33·59	45·84	12·25	+ 36
„	King's Co.	Parsonstown (Birr Castle)	32·22	38·60	6·38	+ 20
„	Dublin	Dublin (Fitz William Square)..	27·47	34·34	6·87	+ 25
„	West Meath ...	Athlone (Twyford).....	38·97	44·60	5·63	+ 14
„	„	Mullingar (Belvedere)	34·69	42·92	8·23	+ 24
„	Louth.....	Dundalk (Farncredg)	29·30	30·49	1·19	+ 4
XXII.	Galway	Ahascragh (Clonbrock)	39·91	53·23	13·32	+ 33
„	„	Tuam (Gardenfield) 1 ft.	44·28	50·16	5·88	+ 13
„	Mayo	Crossmolina (Enniscoe)	51·41	63·79	12·38	+ 24
XXIII.	Armagh	Armagh Observatory	32·16	36·45	4·29	+ 13
„	Down	Warrenpoint (Summer Hill)...	37·88	42·12	4·24	+ 11
„	„	Seaforde	37·89	44·07	6·18	+ 16
„	„	Banbridge (Milltown)	31·44	34·02	2·58	+ 8
„	„	Donaghadee ..	31·58	37·77	6·19	+ 20
„	Antrim	Belfast (Antrim Road)	34·57	42·13	7·56	+ 22
„	„	Ballymena (Harryville).....	39·41	46·93	7·52	+ 19
„	„	Bushmills (Dundarave)	37·87	42·29	4·42	+ 12
„	Londonderry ...	Garvagh (Moneydig)	39·02	43·36	4·34	+ 11
„	„	Londonderry (Creggan Res.) ..	40·78	45·35	4·57	+ 11
„	Tyrone	Stewartstown (The Square) ...	34·90	44·54	9·64	+ 28
„	„	Omagh (Edenfel) ...	36·63	46·60	9·97	+ 27
„	Donegal	Buncrana (Rockfort).....	40·71	45·02	4·31	+ 11

EXTREMES OF RAINFALL IN 1900.

Largest Rainfall at Ben Nevis Observatory, Inverness..... 207·10 in.
 Least Rainfall, at Great Leighs, Essex..... 17·23 ,,

ENGLAND.

GREATEST.			LEAST.		
Div.		in.	Div.		in.
X.	The Styte, C	174·75	IV.	Great Leighs.....	17·23
„	Styehead Tarn	137·80	„	Shoeburyness	17·31
„	Borrowdale (Seathwaite)		II.	Erith, Crossness	18·43
	4in. g.	131·16	IV.	Grays Sewage Works.....	18·63
„	Sprinkling Tarn	128·40	„	Clacton-on-Sea	18·66
„	Ullscarf	122·80	„	Romford (North Ockendon)	18·67
„	Mickleden	119·66			

MONMOUTH, WALES AND THE ISLANDS.

GREATEST.			LEAST.		
Div.		in.	Div.		in.
XI.	Snowdon, Llydaw.....	193·50	XI.	Rosset (Trevalyn Hall)	25·98
„	„ Cwm Glas	173·60	„	Rhyl (Sedgley House).....	26·32
„	Dolwyddelan (Upp. Nhadog)	157·95	„	Gresford (Trewythen)	28·16
„	„ (Lwr. Nhadog)	148·54	„	Colwyn Bay (Abergele Rd.)	28·69
„	„ (Cwm Edno)	129·46	„	Welshpool (Pool Quay Vic.)	28·77
„	Idwal Lake, South End ...	120·20	„	Llanefydd (Plas Uchaf Res.)	29·22

SCOTLAND.

GREATEST.			LEAST.		
Div.		in.	Div.		in.
XVIII.	Ben Nevis Observatory ...	207·10	XVII.	Peterhead (H.M. Prison) ..	22·12
XV.	Ben Lomond	124·50	XVIII.	Fearn (Geanies Mains)	27·79
XVIII.	Loch Shiel (Glenaladale) ...	112·36	„	„ (Lower Pitkerrie)	28·29
„	Glenquoich	109·61	XVI.	Arbroath (Dishland Hill) ...	28·67
XV.	Glenquyle	104·00	XVII.	Kinloss	28·67
XVIII.	Loch Torridon (Bendamph)	101·09	„	Nairn (Achareidh)	29·13

IRELAND.

GREATEST.			LEAST.		
Div.		in.	Div.		in.
XX.	Mangerton	118·80	XXI.	Donnybrook (Seaview Terr.)	30·91
„	Gap of Dunloe (Garrymeen)	98·75	XXIII.	Killeshandra (Castle Hamilton)	31·65
„	Dunmanway (Coolkelure) ..	79·32	„	Banbridge (Katesbridge) ..	31·93
XXII.	Clifden (Kylemore House)...	75·53	„	„ (Corbet Reservoir)	32·31
„	Kenmare (Derreen).....	73·79	XXI.	Drumconrath (Corstown Hse.)	33·00
XXII.	Clifden (Kylemore Castle)...	71·07	„	Rathmines (Terenure)	33·48

NOTE.

Second gauges, and those at Lighthouses, are excluded from the above, and in selecting the minima, no record is used from any gauge of which the receiving surface is more than 3 ft. above the ground.

GENERAL TABLES
OF
TOTAL RAINFALL IN 1900,
AT ABOUT
3500 STATIONS
IN THE
BRITISH ISLES.

EXPLANATION OF THE ARRANGEMENT OF THE FOLLOWING GENERAL TABLES.

The divisions 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 an alphabetical list of the counties is given, whereby the page or pages on which all returns from each county will be found, can be at once ascertained.

The stations in each county are arranged nearly in the order of their latitude from South to North.

To facilitate 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 Directory* ; the second name is generally added to fix accurately the site of Observation ; 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, Norfolk, near Beccles, in another county—Suffolk.

The contents of the columns are sufficiently explained by the headings, except that in that headed “diameter,” figures will be noticed of old-style type ; these figures 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 perfect throughout the year, and that the printed amount is the correct total of these daily entries. The letter M indicates that the gauge is read only on the first of each month.

A few entries of total rain will be found in italics—indicating uncertainty as to the fall of snow in February, or possible overflow.

An asterisk * denotes that the gauge was tested before erection, and a † that it has been visited and examined since. A note of interrogation (?) implies doubt, not necessarily error. ... indicates the absence of information.

In the column of altitudes several symbols are used, their meaning is as follows :— \mathcal{A} , that a series of levels has been taken from the gauge to an Ordnance bench mark ; I, that the height is estimated or ascertained approximately from the same source ; l, that levels have been taken from the gauge to the sea, or to some datum other than Ordnance mean sea level ; B, that the altitude has been taken by the barometer ; and ?, that the height is uncertain.

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ENGLAND AND WALES.

DIVISION I.—MIDDLESEX.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
MIDDLESEX.						
			ft. in.	feet.	inches.	
Hampton (Southwark W. W.)...	J. W. Restler, Esq., C.E.	5	2 0	...	19·66	...
Sunbury (Hanworth Road)	W. B. Bryan, Esq., C.E.	8	1 0	50 7	22·42	186
Staines (Belle Vue)	J. Gundry, Esq.	5	1 0	51 7	21·47	142
„ (Cambria House)	C. Ashby, Esq.	5	1 0	50?	22·80	132
„ (Knowle Green)	Miss Pellatt	5	5 2	...	24·13	157
Twickenham (Hampton Road)..	T. Gale, Esq.	5	1 3	37 7	22·04	170
„ (Sewage Works)...	F. W. Pearce, Esq. ...	5	1 7	37 7	19·89	161
„ („ „) M	„ „ „ „ ..	5	1 7	37 7	19·59	...
Isleworth (Spring Grove House).	Mr. W. Farr	5	1 0	...	24·59	145
Chelsea (Pumping Station)	Sir A. R. Binnie, C.E. ...	8	1 0	19 7	21·11	...
„ (St. Luke's Gardens) ...	T. W. E. Higgins, Esq. CE	5	1 0	25 7	21·11	175
Isle of Dogs	Sir A. R. Binnie, C.E. ...	8	1 0	15 7	21·48	161
Acton (Newburgh Road)	Miss Baker	5	1 6	86 7	22·29	178
Ealing (Public Buildings)	C. Jones, Esq., C.E. ...	5	9 0	114	22·49	164
„ (Gordon Road)	J. Box, Esq.	5	10 0	85 7	20·78	171
„ (Castle Bar Road)	T. Simpson, Esq.	5	1 0	152	23·21	157
Westminster (Chester Sq., S. W.)	C. Lethbridge, Esq.	5	10 0	...	21·44	182
„ (Spring Gardens) (1)	Sir A. R. Binnie, C.E. ...	8	66 4	95 7	19·34	...
„ („ „) (2)	„ „ „ „ ..	12	65 11	95 7	19·39	...
„ („ „) (3)	„ „ „ „ ..	8	6 0	35 7	20·44	135
Kensington (Edith Road)	G. von U. Searle, Esq.	5	0 10	16 7	20·89	176
„ (Holland House) ...	Mr. C. Dixon	5	4 6	68 7	21·41	173
„ (Addison Gardens) ...	G. H. M. Whish, Esq. ..	5	1 1	23 7	21·60	171
„ (Campden Hill)	M. W. Hervey, Esq., C.E.	8	4 10	130 7	21·35	158
London (Westbourne Grove, W.)	A. P. Baker, Esq.	5	0 9	64 7	22·53	160
„ (Strand, W.C.)	J. J. Steward, Esq. ...	5	45 0	80	23·82	161
„ (Guildhall, E.C.)	D. J. Ross, Esq., C.E. ..	8	2 6	49 7	19·03	119

DIVISION I.—MIDDLESEX.—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which "01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
MIDDLESEX—(con.)						
London (Guildhall, E.C.)	D. J. Ross, Esq., C.E..	8	51 0	98 T	18·71	119
" " (Mile End, E.)	J. Metson, Esq.	5	14 0	...	22·35	150
" " (City Road)	J. Bigwood, Esq., M.P.	5	1 2	...	22·63	165
" " (Old Street, E.C.)	The Royal Meteor. Soc.	5	1 0	70 T	21·16	168
Perivale (Sewage Farm)	C. Jones, Esq., C.E. ...	5	12 0	56	20·90	159
London (Regent's Pk. R. Bot. Soc.)	J. B. Sowerby, Esq. ...	8	1 0	126 T	23·75	167
" " (Hamilton Terrace, N.W.)	Miss Cobb	5	0 11	125 T	23·46	178
" " (Barrow Hill, N.W.) ...	M. W. Hervey, Esq., C.E.	5	3 4	190 T	20·28	164
" " (Old Ford, E.)	Sir A. R. Binnie, C.E..	8	1 0	35 T	19·59	155
" " (New River Head, E.C.)	J. Francis, Esq., C.E..	5	3 8	100	18·80	165
† " (Camden Square, N.W.)	H. Sowerby Wallis, Esq.	8	0 8	111 T	23·28	174
† " (" ")	M. " " " " " "	5	1 0	111 T	22·99	...
" Willesden Reservoir	M. W. Hervey, Esq. C.E.	5	2 6	199 T	20·98	182
" Willesden Green (Strode Road)..	Miss Lamport	5	1 0	150	24·98	177
" Hampstead (Kidderpore Reserv.)	M. W. Hervey, Esq., C.E.	8	1 6	323 T	26·26	149
† " (Squire's Mount) ...	The Misses Field	5	1 0	388 T	21·50	131
" (The Pryors)	" " " " " "	5	1 0	327 T	23·02	140
Lea Bridge	W. B. Bryan, Esq., C.E.	8	1 0	23 T	20·07	152
" Finsbury Park (New River Works)	E. L. Morris, Esq., C.E.	5	1 0	101 T	22·05	155
" Stoke Newington (" " ")	J. Francis, Esq., C.E..	5	4 0	105 T	20·79	161
" Stamford Hill	W. B. Bryan, Esq., C.E.	8	0 9	84	22·95	150
" Highgate (North Hill)	E. J. Lovegrove, Esq., CE	5	4 6	302	26·45	150
† Child's Hill (Helenslea)	A. J. Woodhouse, Esq.	5	1 6	245 T	25·22	167
" Harrow	R. Thornton, Esq.	5	1 0	215	24·99	182
" Crouch End (Aubrey Road)	W. B. Butler, Esq. ...	5	1 0	140	23·89	173
" Hornsey (High Street)	E. J. Lovegrove, Esq., CE	6	3 2	97	24·22	154
" " (" " ")	J. Francis, Esq., C.E..	5	4 0	109	20·87	161
" Muswell Hill	Miss Abethell	5	0 10	310 T	26·58	172
" " (Irish Corner Sew. Farm)	E. J. Lovegrove, Esq., CE	8	4 8	216 T	27·53	173
" Hendon (Hillwood)	W. H. Kesteven, Esq..	5	1 0	191 T	27·02	182
" Wealdstone House	Miss M. M. Cobb	5	0 11	236 T	22·92	...
† Finchley (Etchingham Park) ...	J. W. Scott, Esq.	5	1 2	295 T	26·57	181
† " (" " ")	" " " " " "	8	1 3	295 T	26·68	181
" Uxbridge (Harefield Park)	Mr. W. Batchelor	5	0 10	290	24·34	146
" Friern Barnet (Sewage Works)..	Baldwin Latham Esq CE	5	1 0	156 T	21·60	154
" Whetstone	" " " " " "	5	1 0	315 T	21·49	136
" Enfield (Old Park)	A. L. Ford, Esq.	5	1 9	156 T	23·61	155
" " (Southbury Road)	J. Francis, Esq., C.E..	5	4 0	109 T	22·22	162
" " (Carisbrooke)	J. McEwan, Esq.	5	36 6	237 T	23·11	166
" " (" ")	" " " " " "	5	1 0	204 T	24·78	170

DIVISION II.—SOUTH EASTERN COUNTIES.

SURREY.

" Haslemere (Lower Street)	J. W. Penfold, Esq. ...	8	4 0	481 T	39·86	180
" " (Hazelhurst)	T. P. Newman, Esq. ...	5	1 0	550 T	38·12	196
" " (Grayswood Hill) ...	B. E. C. Chambers, Esq.	5	1 0	580 T	34·02	..

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which not or more fell
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
SURREY—(con.)						
Dunsfold (Durfold)	Miss Billiter	5	...	225 T	27·04	...
d Chiddingfold	A. F. Parbury, Esq....	5	1 0	174 T	31·45	158
„	Snowdon M „ „ „	5	0 11	165	30·66	...
d „ (Beaconsroft).....	Admiral Maclear	5	1 0	230 T	29·93	182
Dunsfold Rectory	Rev. W. H. Winn.....	5	1 0	170	27·05	...
Haslemere (Weycombe)	G. B. Buckton, Esq. FRS.	5	1 0	562 T	32·92	...
Okewood Vicarage.....	Rev. R. H. B. Simpson	5	...	285 T	28·78	...
d Hambledon (Matteryes)	J. Borrowman, Esq. ...	5	5 8	300	27·16	184
d Witley (Fernside)	Mrs. Foster.....	5	1 0	350 T	29·29	179
Hascombe Rectory.....	the late Canon Musgrave	8	1 0	450 T	27·03	...
d „ (Hall Place).....	E. L. Rowcliffe, Esq....	8	1 5	273 T	29·70	146
d Cranleigh Common (Homefield Cott.)	A. F. Jones, Esq.	5	1 2	175 T	29·61	167
„ „	W. Welch, Esq.	5	1 0	182 T	30·53	...
d „ (Winterfold)	Mr. R. Turvey	8	3 6	603 T	32·76	154
Ewhurst (Malquoits).....	W. Webb, Esq.	5	1 6	400	31·23	174
d „ (Coneyhurst).....	Miss Ewart.....	8	1 0	561 T	32·71	180
d „ (Heathside)	J. Sparkes, Esq.	5	1 6	600 T	30·41	133
„ (Woolpits)	Mr. H. W. Perrin	5	1 0	600	30·88	...
Felbridge Place.....	Dr. C. H. Gatty.....	8	1 0	305	31·49	...
Abinger (Feldemore)	E. Waterhouse, Esq....	5	4 0	505 T	31·53	160
d Bramley (Grafham Grange).....	J. C. McAndrew, Esq..	8	1 2	180	26·79	139
Godalming (Peper Harow)	The Meteor. Council ...	5	1 0	200	27·11	167
d „ (Hurtmore Lane) ...	O. H. Latter, Esq.....	5	1 0	310 T	28·16	192
d Lyden Croft [Edenbridge]	Surg.-Gen. C. Planck ..	8	1 0	212 T	31·62	176
d Womersley (Shamley Green) ...	Mr. A. Nash.....	5	1 0	400	30·27	169
d Bramley (Cloverlea)	J. Bartlett, Esq.	5	1 0	147	28·89	192
Godalming (Tilthams)	Col. A. E. Bigg-Wither	5	1 0	130 T	26·08	...
d Abinger Rectory	F. C. Bayard, Esq. ...	5	1 0	381	31·99	175
d „ Hall	Right Hon. Lord Farrer	8	2 0	320 T	32·13	178
d Farnham (The Bourne Vicarage)	Rev. T. W. Sidebotham	5	1 0	308 T	26·20	186
d „ (Dippen Hall)	M. Birkbeck, Esq.....	5	1 0	345 T	28·54	202
d „ Castle	Mr. H. Dowding	8	1 0	300	26·28	133
d „ (Short Heath Lodge).....	Col. G. Chrystie.....	5	1 0	365 T	27·52	180
d „ (Great Down, Seale)...	Mrs. Kitchin	8	1 0	490	21·45	135
Dorking (Fir Tor)	F. Taylor, Esq.	5	1 0	260	31·13	...
„ (Woodcote)	Stanley Single, Esq....	5	1 0	310 T	31·45	177
„ (West Street)	Mrs. W. A. Marsh.....	10	26 0	224 T	26·33	152
„ (The Denbies).....	Mr. J. Beesley	5	0 9	610 T	30·89	158
d Brockham (North Lodge)	H. R. Kempe, Esq. ...	8	0 9	...	27·55	131
d Guildford (Epsom Road)	Miss Johnston	5	0 11	...	28·34	186
d „ (Baskerville)	J. H. Billing, Esq. ...	5	1 1	205	27·66	168
d „ (Craigie, Merrow) ...	Miss Lomer.....	5	0 9	250 T	25·54	163
d Reigate (Hartswood).....	R. W. Clutton, Esq....	5	1 0	174	25·97	175
d „ (Woodhatch Lodge) ...	C. B. Haywood, Esq....	5	1 0	270 T	26·39	170
d „ (Ringley Mead)	R. L. Hesketh, Esq. ...	5	1 0	345 T	29·92	192
d Earlswood (Sewage Farm)	F. T. Clayton, Esq., C.E.	8	1 0	196 T	27·97	172
d† Red Hill (Oxford Road)	W. H. Tyndall, Esq....	8	1 0	300 T	28·85	179
Reigate (Aldersyde)	H. Rosling, Esq.	5	1 2	...	29·25	186
d „ (Wray Lodge).....	A. Rosling, Esq.	8	1 0	320 T	27·35	165

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
SURREY—(con.)						
Reigate (Northcote)	F. C. Pawle, Esq.	5	0 8	360	29·34	174
D „ (Castle Grounds)	F. T. Clayton, Esq., C.E.	5	1 6	350	30 56	170
D „ (Doods)	the late G. E. Pym, Esq.	5	1 3	350	29·30	187
D „ (Nutwood)	H. E. Gurney, Esq. ...	5	0 9	440	28·20	196
D Nutfield Priory	Mrs. Fielden	8	1 2	468	26·98	191
„ „	Mr. J. Moffat	8	1 2	431	28·31	188
D „ (Holmesdale)	C. T. Maw, Esq.	8	2 0	500	25·84	183
High Clandon	F. B. Eastwood, Esq. ...	5	0 6	500	28·30	...
D Betchworth (The Holmes)	F. R. Rushton, Esq. ...	5	0 8	322	30·28	182
Reigate (Hatherlow Obs.)	S. T. Klein, Esq.	5	0 9	405	26·76	185
Dorking (High Ashurst)	The Hon. H. D. Ryder	5	10 0	550	28·67	200
D Merstham (Rockshaw)	F. C. Bayard, Esq. ...	5	1 0	475	28·70	181
D „ (Harp's Oak Cottage)	„ „ „	5	1 0	454	29·39	190
D Upper Gatton	F. Druce, Esq.	5	1 0	601	31·49	188
Bookham Lodge	Hon. Rev H Waldegrave	8	0 7	140	23·63	185
D Horsley Towers	Capt. Hon L F King-Noel	8	1 2	285	30·30	129
„ (Woodcote Lodge)	Sir H. E. Roscoe, F.R.S.	7	0 6	650	30·27	...
D Pirbright Camp	Sergt. Elwick	5	1 0	201	24·17	156
Leatherhead (Downside)	A. Tate, Esq.	5	1 0	250	26·87	...
D Chaldon Rectory	F. C. Bayard, Esq. ...	5	1 0	542	28·65	161
D Chipstead (Shabden Park)	„ „ „	5	1 0	550	31·32	176
D Frimley Green	F. W. Talbot, Esq. ...	5	7 0	220	20·30	151
D Caterham Asylum	Dr. Elliot	5	1 0	610	32·50	183
Caterham Valley (Bradenhurst)	Henry Haes, Esq. ....	...	...	600	32·67	...
D Kenley (Hazelea)	Mrs. Carr Dyer	5	1 0	282	28·50	189
D Ashtead (D'Abernon Chase)	Sir W. Vincent, Bart. ..	5	1 0	280	24·37	166
Woking	Rev. F. Wilson	5	0 10	80	23·63	162
D Pyrford (Pyrford Croft)	H. W. Page Phillips, Esq.	5	1 6	...	25·94	193
D Cobham (Hatchford)	W. M. Chinnery, Esq. ...	8	1 0	150	25·72	161
D Horsell (Lindisaye)	H. Horncastle, Esq. ...	5	4 2	120	22·82	170
„ „ „	M „ „ „	5	0 9	120	22·80	...
D Oxshott	W. H. Dines, Esq. ...	5	1 0	206	22·47	164
Banstead (The Larches)	Rev. C. J. Taylor	8	1 0	488	29·09	205
D Camberley (Waverley Court)	Mr. J. Bryan	5	1 0	340	24·93	167
Chelsham (Fairchildes)	A. S. Daniell, Esq. ...	8	1 0	600	29·00	...
„ „ „	Mr. G. Mansfield	5	0 10	600	29·43	...
Sanderstead (Red House)	Capt. Carpenter, R.N. ..	5	1 0	320	25·09	188
D Chobham (The Elms)	Mrs. Brown	5	2 3	98	22·89	142
D Chertsey (Ottershaw)	R. H. Otter, Esq.	5	1 0	200	22·96	176
D Bagshot (Hall Grove)	Mr. W. Burgess	8	1 0	229	25·66	189
Chertsey (Long Cross)	F. A. Baker, Esq.	5	3 0	200	20·47	...
D Windlesham (Erlwood)	E. S. Currey, Esq.	5	1 0	216	22·98	171
D Weybridge (Field Place)	G. A. Yool, Esq.	5	1 0	119	22·18	169
„ (Heath Field)	Miss A. T. Gardiner ..	5	1 0	100	21·07	163
D „ (West Oaks)	A. Whittet, Esq.	5	1 0	36	22·15	167
D „ (St. Mary's Lodge)	W. Talbot Agar, Esq. ..	5	5 0	...	23·86	185
D „	Maj.-Gen. Battersby ...	5	0 10	...	22·90	162

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

STATIONS.	AUTHORITIES.	Diameter	Rain Gauge.		Depth of Rain.	Days on which ·01 or more fell.
			Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
SURREY—(con.)						
D Esher (Sewage Works).....	F. C. Bayard, Esq.	5	1 0	42 ∇	22·37	184
D Addington (Hares Bank).....	„ „ „	8	1 0	331 ∇	27·26	189
D „ (Park Farm)	„ „ „	5	1 0	268 ∇	27·09	172
D „ Hills	„ „ „	8	0 9	473 ∇	24·72	205
D Wallington	„ „ „	5	4 1	140 ∇	25·73	175
D Sutton (Sewage Works)	C. C. Smith, Esq.	8	1 0	94 ∇	24·51	165
D „ (Water Works).....	W Vaux-Graham Esq CE	5	1 0	157 ∇	25·11	193
D Carshalton (Sewage Works).....	Baldwin Latham Esq CE	5	1 0	118	23·78	177
Beddington (Riverside).....	The Royal Meteor. Soc.	5	1 0	120	25·39	173
Croydon (Heathfield Road)	J. Glaisher, Esq., F.R.S.	8	0 5	185	25·02	156
D „ (Duppas House).....	Baldwin Latham Esq CE	8	1 0	158	25·26	191
D „ (Waddon House)	the late P. Crowley, Esq.	5	1 0	156 ∇	24·30	189
D „ (Waddon New Road).....	G. Corden, Esq.	5	1 0	146	27·61	183
D „ (The Whitgift)	F. C. Bayard, Esq.	5	1 0	191 ∇	25·64	185
D „ (Woburn Road)	„ „ „	5	1 1	178	25·99	202
D „ (Brimstone Sew. Works)	„ „ „	5	1 0	130 ∇	21·15	149
D „ (Park Hill Rise)	H. F. Parsons, Esq., M.D.	5	1 3	240	22·89	192
D „ (Windmill Road)	A. Malden, Esq.	5	1 6	174 ∇	24·61	166
D Worcester Park (Parkside)	T. Hill, Esq.	5	1 0	80	23·77	166
D „ „ (Manor Lodge).....	F. C. Bayard, Esq. ....	...	...	...	21·71	162
D New Malden (Sewage Works).....	„ „ „	5	1 0	45	18·53	152
Morden	Miss R. Hames „ .....	...	3 2	108	24·19	169
D Virginia Water (Lyne Grove).....	T. J. Hare, Esq.	5	0 11	150 ∇	23·27	186
D Thames Ditton (Weston Green).....	Mr. T. H. Potter	8	1 0	35 ∇	22·60	176
D „ „ (Giggs Hill)	W. A. Hardwick, Esq.	5	1 2	35 ∇	22·99	150
D Surbiton (Seething Wells) ...	late R. Hack, Esq., C.E.	10	0 6	34	21·64	161
D „ (Vronvelin).....	F. Barclay, Esq.	5	1 0	50	23·64	173
West Molesey	late R. Hack, Esq., C.E.	5	1 0	32 ∇	22·16	166
D St. Ann's Heath (Sanatorium).....	Rev. J. Peck	8	1 1	120	22·95	158
D Kingston Sewage Works	F. C. Bayard, Esq.	5	1 0	25	23·94	157
„ (Union Street)	Mr. Davis	8	3 0	...	22·50	154
D Wimbledon (Raynes Park)	C. H. Cooper, Esq.	5	1 3	48 ∇	22·72	208
D „ (Sewage Works).....	„ „ „	5	1 0	58 ∇	19·62	179
D „ „ Common (Richmond Ho.)	E. Rawlings, Esq.	5	1 3	175 ∇	23·78	176
„ „ Park (Woodhouse).....	Sir A. E. Bateman	5	1 0	150	22·70	158
D South Norwood (Apsley Road).....	F. C. Bayard, Esq.	5	1 0	125	21·37	134
D West Norwood (Thornlaw Road).....	W. Marriott, Esq.	5	1 0	221	24·33	187
Streatham (Woodfield Avenue).....	F. Jordan, Esq.	5	1 0	120 ∇	22·94	188
D Dulwich Wood Park	H. V. Caldicott, Esq.	5	1 2	276	23·12	173
D Wandsworth Com. (Patten Rd.)	F. C. Bayard, Esq.	5	1 0	100	22·26	175
Egham (Coopers Hill)	The Meteor. Council	8	1 1	280	23·66	189
Putney Heath	late R. Hack, Esq., C.E.	5	1 6	180 ∇	20·78	169
D Richmond (The Terrace)	F. C. Bayard, Esq. ....	...	...	...	21·16	159
D „ (Kew Observatory)	Dr. C. Chree, F.R.S.	11	1 9	19 ∇	21·87	162
Putney Vale Cemetery	Mr. F. Pain	5	1 0	98 ∇	21·71	157
D Clapham Park (New Park Road).....	D. W. Horner, Esq.	5	1 3	128 ∇	22·18	156
Brixton (Acre Lane)	The Meteor. Council	8	1 0	77 ∇	22·17	159
D Nunhead (Southwark W. W.).....	J. W. Restler, Esq., C.E.	5	4 0	176	18·90	152

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft. in.	feet.	inches.	
KENT—(con.)						
Staplehurst (Saynden Farm) ...	J. Norris, Esq.	5	1 4	310 T	27·59	137
D Chiddingstone Rectory	Rev. J. T. Pearse	5	1 0	170	28·30	177
Tunbridge (Penshurst Place) ...	Mr. F. Bridger	5	1 0	...	28·83	...
D " (" Park) ...	Mr. J. M. Sturgess ...	5	0 4	265 T	30·31	180
" (Primrose Hill)	G. I. Kimmins, Esq....	5	0 10	175 A	28·98	173
D " (Beech Hurst).....	W. C. Punnett, Esq....	5	1 6	102 A	28·64	167
" (" ")Snowdon	" " "	5	1 6	102 A	28·08	166
" (" ").....M	" " "	8	4 0	105 A	28·03	...
D Ashford (Westwell)	Rev. H. H. D'Ombraïn	5	1 0	272	28·88	145
D Edenbridge (Falconhurst)	Rt. Hon. J. G. Talbot, MP	5	1 0	300	32·80	161
Deal and Walmer W. W.	A. Mantle, Esq.	12	1 0	100 A	27·88	...
D " " " " "	" " "	5	1 0	100 A	28·32	166
Wye (Bilting)	Mr. A. H. Briggs	5	1 3	158	30·89	167
D Hadlow	F. W. E. Shrivell, Esq.	5	1 0	100	26·60	176
D Deal (Sewage Works)	Baldwin Latham Esq CE	5	1 0	11 A	25·48	149
D Maidstone (Linton Park)	Mr. C. Pratt	5	1 0	...	26·28	164
D " (Ulcombe Place)	A. O. Walker, Esq. ...	5	1 0	350 T	23·60	152
D " (Lower Tovil)	Lawrence Green, Esq..	5	1 0	30 L	22·62	172
" (Long Rede, Barming)	Rev. T. W. Carr	8	3 6	280 T	24·59	143
" (The Vicarage)	Rev. Canon Joy	8	1 6	...	23·05	...
D " (Mount House)	C. A. Case, Esq.....	5	1 0	160 T	25·34	170
Eastry (Great Walton)	W. V. Lister, Esq. ...	5	1 0	25 A	24·84	164
D East Malling (Broadwater)	C. B. Mercer, Esq. ...	5	1 6	169	26·29	195
D West Malling (St. Leonards) ...	G. Phillips, Esq.	5	1 0	...	28·44	181
D Debtling	R. Cooke, Esq.	5	1 2	330 T	29·28	207
Maidstone (Allington)	Mr. G. Bunyard.....	5	1 4	100	25·28	...
Aylesford (Preston Hall)	Mr. W. Jarman.....	5	1 6	80	25·55	...
Sheldwich	Rev. B. S. Malden.....	5	1 0	250 T	30·36	154
D† Selling (Harefield).....	S. Neame, Esq.	5	2 6	217 B	30·61	181
D Westerham (The Fishponds) ...	F. C. Bayard, Esq.....	5	1 0	380	26·11	135
D " (Hill Estate)	" " "	5	1 0	539·	31·17	163
D Canterbury (Burgate Street) ...	B. Rigden, Esq.....	5	9 6	58 A	25·39	141
" (Irrigation Works)..	A. H. Campbell, Esq., CE	5	0 5	15 A	23·04	161
D Seven Oaks (River Hill)	Mr. T. H. Usher	8	4 0	535	26·62	168
† " (The Rectory)	Rev. T. S. Curteis....	5	1 0	497	28·10	...
" (St. John's Hill) ...	F. C. Bayard, Esq. ...	5	1 10	380	28·18	...
D† " (Riverhead Vic.) ...	Rev. Canon Murdoch...	5	0 6	300 T	25·79	147
D " (Chevening Gardens)	Mr. J. C. Sutton	5	1 0	360	31·08	139
" (Kemsing)	the late T. Stonham, Esq.	5	6 0	300	28·25	...
D Sittingbourne (Sharsted Court).	A. J. Rayfield, Esq. ...	5	1 6	276·T	25·17	129
Ospringe (Lorenden)	W. C. Stunt, Esq. ...	5	1 4	180 ?	26·47	155
Knockholt (Kent Waterworks)..	F. C. Bayard Esq.....	5	1 0	785	29·43	...
" (" ").....	" " "	5	24 6	812	22·37	...
D Farnborough (Feniton).....	Miss Percy	5	1 0	376 T	25·76	199
D Ash (Pettings House)..... new g.	C. J. G. Hulkes, Esq...	5	1 0	540 T	28·69	169
Herne Bay (Eddington)	Miss Hawksworth	5	1 0	4 ?	21·90	...
D Birchington (Thor)	Mr. W. H. Euden	5	1 0	40 T	22·93	138

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell.
		Diameter	Height Above Ground.		Height Above Sea Level	
			ft.	in.	feet.	inches.
KENT—(con.)						
D Reculver (Brook)	A. Collard, Esq.	5	6	3	40 †	20·38 162
D Hayes Common (The Warren)...	Miss Akers	5	1	0	296	26·55 177
D West Wickham (Wickham Court)	F. C. Bayard, Esq. ...	5	1	2	300	26·32 158
D Orpington (Kent Waterworks)...	„ „ „	5	1	0	220	24·57 159
D Farningham Hill	„ „ „	5	3	0	300	24·83 178
Chatham (Luton W.W.)	W. Coles Finch, Esq....	5	3	0	88 †	24·53 161
„	The Meteor. Council ...	8	1	3	137	23·14 155
D Rochester (Knights Place)	J. Pye, Esq.	5	2	3	320	26·99 200
Broadstairs	Cecil Hamersley, Esq..	5	...	...	50	21·88 ...
D St. Peter's	Rev. H. C. V. Snowden	5	0	6	140 †	22·11 157
White Ness (Kingsgate)	Mr. R. Silk	5	1	0	98 †	20·09 131
D Margate (Apsley House)	J. Stokes, Esq.	5	1	0	84 †	21·90 165
D „ („ „)Snowdon	„ „	5	1	5	84 †	21·47 165
D Sheppey (Newhouse, Leysdown)	C. A. Till, Esq.	5	1	2	50	20·72 149
Strood Water Works	W. Banks, Esq., C.E..	5	3	0	112	21·91 168
D Frindsbury (Manor Farm)	F. Baker, Esq.	5	1	0	100	23·46 147
D Bromley Common (Elmfield) ...	Rev. J. P. Faunthorpe..	5	0	9	235 †	23·63 174
D Bickley (Elmhurst)	C. J. Whittington, Esq.	8	3	2	250 †	21·43 168
„ (The High Field)	J. Batten, Esq.	5	1	2	295	24·02 ...
D Bromley (The Palace)	F. C. Bayard, Esq. ...	5	1	0	187	23·59 180
D „ (Widmore Road)	Miss Scott	5	1	0	230	21·95 166
Chislehurst (Southlaund)	T. O. Hutton, Esq. ...	5	1	2	400 ?	21·23 ...
D Southfleet (Kent Waterworks)...	F. C. Bayard, Esq. ...	5	1	0	82	22·35 162
D Wilmington („ „)...	„ „ „	5	1	0	25	20·92 167
D Sidecup (Hatherley Road)	Dr. L. Burrell	5	1	2	170 †	23·70 177
D „ (Park Road)	S. A. Sharman, Esq....	5	5	6	230	20·66 162
D Rochester (Abbot's Court, Hoo)..	Warwick Stunt, Esq....	5	2	0	10	21·35 139
D Beckenham (Wickham Road) ...	E. Scovell, Esq.	5	1	2	156 †	24·26 172
D „ (Oakwood Avenue) ..	F. C. Bayard, Esq. ...	5	1	0	184	23·37 188
D Forest Hill (Newfield House) ...	„ „ „	5	1	0	220	22·43 169
D „ (Barr Beacon)	J. W. Restler, Esq., C.E.	5	1	0	344 †	21·22 192
D Dartford (West Hill House)	F. C. Bayard, Esq. ...	5	1	3	100	20·67 143
D Higham (Oakleigh)	C. Lake, Esq.	8	1	2	25	19·17 113
D Rochester (Cooling)	Mr. J. Filmer	5	1	0	10	22·20 142
D „ (Hoo St. Mary)	H. Pye, Junr., Esq. ...	5	5	6	146 †	20·00 154
D „ (Cliffe Lodge)	E. W. Wood, Esq.	5	1	0	30	23·27 149
D Eltham (Cliefden)	Miss Yeatman	5	0	10	198 †	20·96 ...
D „ (High Street)	F. C. Bayard, Esq. ...	5	1	0	245	20·47 173
Greenwich (Royal Observatory) ..	W. H. Christie, Esq. C.B.	8	0	5	155 †	22·32 165
D Deptford (Kent Waterworks) ...	F. C. Bayard, Esq. ...	5	1	0	20	19·07 161
D „ (Pumping Station)	Sir A. R. Binnie, C.E..	10	1	6	15	24·56 162
D Erith (Crossness)	No. 3 „ „ „	14	0	6	16 †	18·43 143
WEST SUSSEX.						
Bognor	The Royal Meteor. Soc. ...	...	...	...	14	26·07 164
„ (Lidsey Lodge)	H. Neale, Esq.	8	1	2	...	27·32 148
Littlehampton (Surrey House) ..	A. J. White, Esq.	5	1	8	20 †	24·41 ...
Worthing (Ellesmere)	C. Kelly, Esq., M.D....	5	1	0	26 †	26·33 183

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which 101 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
WEST SUSSEX—(con.)						
Worthing (Corporation Obs.) ...	C. Kelly, Esq., M.D....	8	1 0	34	26·00	169
West Thorney	H. Padwick, Esq.	5	1 0	23 T	26·55	152
Arundel (Yapton)	W. A. Hounsom, Esq..	5	1 0	24 T	27·98	164
„ („ Drove Farm). „ „ „	„ „ „ „	5	1 0	14 T	27·13	164
Angmering	Rev. J. B. Orme.....	5	1 3	44	25·54	...
Chichester (Sewage Works)	Baldwin Latham Esq CE	5	1 0	10 T	27·10	140
„ (Westgate Meadow)...	the late Dr. Tyacke ...	8	0 6	40	27·03	173
„ (Oaklands)	G. A. Tyacke, Esq. ...	8	0 9	80 T	27·31	173
Arundel (Clapham Rectory) ...	Rev. A. H. S. Barwell	5	1 0	150 T	30·08	194
„ (Patching)	J. Drewitt, Esq.....	5	1 0	180	30·66	168
„ („)	Mrs. Joad	5	0 10	130 T	30·52	191
„ (Warningcamp)	A. Holmes, Esq.	8	1 3	15	28·00	133
West Bourne [Emsworth]	Rev. L. B. Birkett....	5	0 8	50 T	29·69	190
Funtington.....	J. A. Greenwood, Esq.	5	1 0	100 T	31·07	178
West Stoke Rectory	Rev. W. F. Shaw	5	1 0	176 T	31·51	151
Steyning (Crescent Road).....	Mr. H. J. Hide	5	1 0	80 T	32·94	142
Chichester (Forest Side Vic.) ...	Mrs. J. C. Parson	5	1 0	341	33·35	171
„ (Watergate).....	W. Christy, Esq.	5	1 0	236 T	34·40	194
„ (West Dean Park) ...	Mr. W. H. Smith	10	1 6	190	38·15	163
† „ (Chilgrove)	J. W. Woods, Esq. ...	5	0 6	284 T	38·90	...
Compton [Petersfield]	Rev. H. M. Langdale...	5	1 0	255 T	36·53	197
Petworth Park	Mr. E. W. Pull.....	5	1 0	182	35·92	165
Cowfold (The Laurels)	Mr. S. Ford	5	1 6	273	29·66	...
Tillington (River House).....	R. Stanley Clark, Esq.	8	1 2	230 T	29·55	184
Midhurst (St. Ann's)	Genl. Paxton	8	1 8	120 T	30·75	169
„ (Borden Wood).....	E. Lamb, Esq.	8	1 0	260 T	35·32	177
„ (Lynch Farm)	G. Eames, Esq.	5	0 6	160 T	41·12	155
„ (Hollycombe)	J. C. Hawkshaw, Esq..	8	6 6	550	35·66	120
Horsham (Denne Park).....	Mr. H. Harris	5	4 0	240 T	28·80	161
Slinfold (Rapkyns)	W. Duncan Knight, Esq.	...	...	...	26·60	...
Fernhurst (Blackdown House)...	F. Philipson Stow, Esq.	5	1 10	488 T	32·78	137
Horsham (Selehurst).....	W. E. Hubbard, Esq..	5	1 0	305	31·06	161
„ (Manor House)	H. Padwick, Esq.	8	0 10	140 T	34·09	162
„ (Wimblehurst)	Miss F. E. Allcard ...	5	1 0	200 T	29·77	182
Slinfold (Dedisham)	J. Lee Jardine, Esq....	5	1 0	83 T	25·70	151
Lynchmere (Shottermill)	Rev. C. Holland.....	5	4 0	400	37·42	126
EAST SUSSEX.						
† Beachy Head	Miss Brodie Hall.....	5	1 0	515 T	26·71	...
East Dean (Hill Side)	E. N. Smith, Esq.	5	1 0	250 T	30·12	143
Eastbourne (Wilmington Square)	R. Sheward, Esq.	8	0 6	39	33·99	183
„ (Burlington Place)...	Miss K. A. Orr	5	1 3	20	33·19	...
† „ (Osborne House) ...	Miss Hood	5	1 0	12 T	33·32	175
„ (Glenthorne)	Miss Woodd	8	1 6	86 T	33·30	182
† „ (Cemetery)	Miss Brodie Hall	5	4 0	160 T	32·13	146
„ (Staveley Cross) ...	J. Weston, Esq.	5	1 6	110 T	32·17	...
Bishopstone	R. R. Davis, Esq.	5	0 8	...	26·85	157
† Jevington (Church Farm).....	E. C. Stileman, Esq., C.E.	8	0 9	261 T	33·59	163

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
EAST SUSSEX—(con.)						
♠ Litlington (Plough & Harrow Inn)	E. C. Stileman, Esq. C.E.	8	1 0	19 ♠	33·16	172
Brighton (Kemp Town)	Mr. A. Wyatt	5	1 0	82	24·27	147
♠ " (Old Steine)	A. Newsholme, Esq., MD	5	1 0	32 †	27·83	179
♠ " (W. W. Goldstone Bottm)	J. Johnston, Esq., C.E.	8	0 7	140 ♠	25·50	164
♠ " (" Lewes Road) ..	" " "	8	3 6	88 ♠	28·34	165
♠ " (" Upper Portslade)	" " "	8	1 3	167 ♠	28·51	175
♠ " (" Patcham)	" " "	5	1 6	207 ♠	31·16	173
♠ " (" Race Hill) ...	" " "	8	1 0	466 ♠	30·34	164
Bexhill (The Grange)	Miss A. Scrivens	8	4 6	143 †	30·14	...
♠ " (Millfield)	" " "	8	1 0	126	27·47	175
St. Leonards (West Marina) ...	H. Colborne, Esq.	8	1 0	21 ♠	29·61	177
" " (Gensing Gardens).	" " "	8	1 0	179 ♠	29·81	181
♠ Polegate (Alciston)	J. J. S. Driberg, Esq. ..	...	...	...	36·22	164
♠ Selmeston Vicarage	Rev. W. D. Parish .....	...	...	...	33·28	179
Iford	Miss Robinson	5	1 2	56 †	31·63	149
♠ Hailsham	Rev. F. Clyde Harvey..	5	1 0	105	31·61	147
♠ Falmer	R. R. Verrall, Esq. ...	5	3 0	312 ♠	32·90	178
♠ Lewes (Fairhall, Southover)	Miss Mathew	5	1 0	45	34·40	171
♠ " (Saxonbury)	A. Hillman, Esq.	5	1 0	75 †	33·17	176
Hastings (St. Helens Crescent)...	The Meteor. Council ...	8	1 0	100	32·54	168
♠ " (Newgate Res.)	P. H. Palmer, Esq., CE	5	0 10	240	29·10	153
† " (High Beech Hollington)	Miss Lewis	5	1 0	320 †	29·13	163
♠ " (Guestling Rectory) ...	Rev. E. N. Bloomfield.	5	1 5	125 ♠	31·45	166
♠ Hassocks (Pyecombe)	Mr. F. S. Mitchell	5	0 7	370	35·83	164
Clayton Rectory	Rev. T. H. R. Shand ...	5	1 1	201 †	35·39	163
♠ Hurstpierpoint (Danny Park) ...	Mr. J. Bunney	8	1 3	180	29·95	136
♠ Winchelsea (The Friars)	Major Stileman	5	1 2	115 †	24·92	146
♠ Battle (Whatlington)	Miss H. Gripper	5	1 3	90 †	31·77	163
Playden (East Guldeford Lane).	G. Pile, Esq.	5	1 0	...	27·03	...
♠ Burgess Hill (Silverdale Road) .	F. H. Phillips, Esq. ...	8	0 10	162 †	29·31	176
♠ Heathfield (Summerlands)	A. Brown, Esq.	5	1 0	500 †	34·86	168
♠ " (Tottingworth Park).	Mr. J. Masson	5	0 10	500 †	33·84	147
♠ Uckfield (Sheffield Park) ...	Mr. W. T. Moore	5	1 0	...	27·81	175
♠ Haywards Heath (Abbots Leigh)	Mr. R. Inglis	5	1 0	290	27·08	154
" "	C. Planck, Esq.	5	1 1	281	25·51	128
♠ Buxted Park	Mr. H. C. Prinsep	8	1 0	94	28·92	165
" (Strawberry Hall)	C. Rintoul, Esq.	5	1 0	180	29·23	145
♠ Maresfield (Forest Lodge)	Capt. W. Noble	8	1 2	247 ♠	31·18	186
Cuckfield (Workhouse)	The Meteor. Council ...	...	1 0	389	26·17	152
♠ Lindfield (Wood Knoll)	L. Weedon, Esq.	5	1 0	188 ♠	28·50	190
♠ Nutley Vicarage	Rev. H. J. Peckham ...	5	1 0	386 †	30·50	194
♠ " (The Hall)	Miss Cook	5	0 10	417	30·93	181
♠ Crowborough	J. J. S. Driberg, Esq. ...	8	0 11	796 ♠	36·64	197
♠ Haywards Heath (Brook House)	H. R. G. Clarke, Esq. ..	5	1 0	240	30·40	159
♠ Balcombe Place	Mr. Warren	8	1 3	289 †	33·21	191
Ticehurst	Mr. Jordan	5	4 9	423 ♠	32·23	167
♠ " (Whiligh)	Col. Courthope, C.B. ...	5	1 0	440	32·78	196
Wadhurst (Kirkstone)	J. C. Lane Andrews, Esq.	5	0 10	500 †	32·45	...
♠ " (Lower Cousley Wood)	F. Wilkin, Esq.	5	1 0	416 ♠	28·46	166

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
EAST SUSSEX—(con.)						
Forest Row (Charlwood Farm) .	A. Hoare, Esq.	5	1 0	250 T	28·97	111
Frant (Eridge Castle)	Mr. A. Wilson	5	2 0	400	36·75	133
D Crawley Down (The Grange) ...	T. H. W. Buckley, Esq. ...	5	0 9	430	35·89	184
Forest Row.....	The Meteor. Council ...	5	1 6	620.	29·03	138
D Worth (South Hill)	P. E. Ravenshaw, Esq. ...	8	1 6	558 T	36·86	201
D East Grinstead Station	Mr. G. Mitchell	8	2 2	410·1	30·64	170
„ „ (Halsford Park). ..	W. V. K. Stenning, Esq. ...	5	1 6	365 T	34·96	165
HAMPSHIRE.						
ISLE OF WIGHT.						
D Ventnor	J. S. Ineson, Esq.	10	2 0	70	28·04	179
„ (Consumption Hospital) ..	The Royal Meteor. Soc. ...	5	1 0	75	30·37	176
D*Bonchurch (The Lilies)	Mr. W. C. Moseley ...	5	1 0	300 T	29·98	177
D Sandown (Belgrave House)	W. E. Green, Esq.	5	1 0	105	36·61	167
Brading Vicarage	Rev. E. Summers	5	1 6	50 ?	32·59	...
D Totland Bay (Wilmington)	J. Dover, Esq.	8	1 0	145 T	29·24	174
D Carisbrooke (Rainsgrove)	Baldwin Latham Esq. CE	5	1 0	180	33·40	177
D „ (Rowborough)	„ „ „ „	5	1 0	193	35·10	178
D Newport (Castle Hold)	A. Le Messurier, Esq. ...	5	1 0	45	31·46	176
Ryde (New Lodge)	Capt. W. A. Dobie	5	1 1	147	31·15	...
„	Mr. T. C. Flower	12	9 0	35	36·59	153
„ (Town Hall)	C. Mathew, Esq. ....	...	...	144 T	27·31	164
D Wootton (Fernhill)	C. G. Brodie, Esq.	8	0 6	118 T	30·70	175
D†Osborne (Newbarn Cottage)	R. Scott, Esq.	8	0 8	172 T	29·57	191
Bournemouth (Clarendon Court)..						
D „ (Wellington House)	G. Galpin, Esq.	5	1 0	120 T	32·21	...
D „ (Kempsey, Bath Rd.)	Messrs. Primavesi Bros	5	1 0	100 T	28·95	188
D „ „	E. L. M. Colville, Esq. ...	8	1 0	121 T	32·35	204
D Milford-on-Sea	R. Bruce, Esq.	5	2 6	40	26·91	147
D Christchurch (Mudeford)	late F. H. D. Eyre, Esq. ...	5	0 3	15 L	26·98	176
D „ (Winkton Lodge)	Miss Lassell	5	0 9	34 T	25·53	173
D „ (Heron Court)	Earl of Malmesbury ...	8	0 6	25	29·53	149
D Portsmouth (Fort Cumberland) ..	P. Murch, Esq., C.E. ...	8	0 9	16 T	24·01	148
D „ (Milton)	Dr. Fraser	5	1 0	18 T	28·40	171
North Hayling	F. Padwick, Esq.	5	1 0	10	24·54	127
Porchester (Noel Cottage)	Miss Montgomery Frost	5	1 0	...	26·86	...
D Havant (Farlington)	H. R. Smith, Esq., C.E. ...	5	1 0	77 T	22·94	153
„ („)	M „ „ „ „	5	1 0	77 T	22·51	...
D „ „ „	„ „ „ „	5	1 0	25 T	25·94	158
„ „ „	M „ „ „ „	5	1 0	25 T	25·92	...
D Emsworth (Redlands)	F. Jacomb Hood, Esq. ...	5	1 0	90 T	29·00	176
D Southampton (Cadland)	The late J. Laurie, Esq. ...	8	4 6	52 T	34·48	198
D „ (Netley)	W. Gillham, Esq.	8	0 5	37 T	39·01	162
D „ „ („ Lake Ho.) ...	Col. Pennington	8	1 0	54 T	32·92	196
Lyndhurst (Fritham House) ...	F. E. Chapman, Esq. ...	5	1 0	410	35·11	186
Southamptn. (Ordnance Surv. Off.)	Col. R. C. Hellard, R.E	5	1 0	79 T	31·54	180
„ (Thornhill Park)	Col. F. Willan	5	1 10	220 T	27·19	...
D „ (Totton)	Mr. W. F. Harold	5	5 0	85	33·63	178

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
HAMPSHIRE—(con.)						
Southamptn. (Anglesea Rd., Shirley)	A. Spooner, Esq.	5	1 1	83	30·70	...
„ (Tatchbury Manor) ...	C. F. Wilson, Esq.	5	1 0	...	33·47	162
Wickham (The Croft)	Rev. Stanhope Rashleigh	5	0 11	80 ?	29·63	184
† Botley (Fairthorne)	A. Burrell, Esq.	8	1 0	70	29·61	...
„ (Hall Court)	late Adl. Murray-Aynsley	8	1 6	105 †	31·74	190
† „ (Botley Hill)	Lady Jenkyns	5	1 6	36 †	28·89	154
† „ (Beechcroft, Curdridge)..	Miss Pasley	8	2 0	100	28·58	177
„ (Fairfield, „) ..	Rev. J. B. Wheeler ...	5	0 9	100	29·23	171
„ Horndean (Blendworth Lodge)...	Mrs. Long	8	0 10	217	37·05	191
„ „ (St. Catherines)	Miss Barnes	8	0 8	417 †	33·65	173
† Southampton (Red Lodge)	late R. C. Hankinson, Esq.	5	0 6	215 †	30·75	196
„ Fordingbridge (Oaklands)	Mrs. Westlake	8	1 0	135 †	32·51	147
„ Hambledon (Rosecroft)	Mr. L. Dawes	5	2 6	200 †	34·22	179
„ Bishops Waltham (Swanmore House)	W. H. Myers, Esq., M.P.	8	1 0	390 †	31·93	157
„ „ (Hill Place)	Major W. A. Daubeney.	8	0 9	260 †	33·30	195
„ „ (Northbrook Ho.)	H. W. Trinder, Esq. ...	5	1 0	136 †	32·50	177
„ „ (Wintershill Hall)	J. S. Moss, Esq.	5	1 0	253 †	29·94	161
„ Droxford (Fir Hill)	Capt. Mackenzie Grieve	5	3 6	212 †	30·72	178
„ Fordingbridge (Wood Green) ..	H. Hinxman, Esq.	5	1 2	140 †	33·07	...
„ Chandlers Ford (Fryern)	Miss Grace Stuart	5	1 2	210 †	34·32	123
„ East Meon (Westbury House) ...	H. Le Roy Lewis, Esq.	5	5 8	296 †	34·77	153
„ Ampfield Vicarage	Rev. Vere Awdry	5	3 0	230 †	28·11	163
† Otterbourne Hill Reservoir ...	M. W. Matthews, Esq., CE	5	18 0	273 †	16·80	...
† „ (W. W., Shawford). „ „ „	„ „ „	5	1 0	113 †	28·23	200
† „ („ „ „) M	„ „ „	5	1 0	113 †	28·58	...
„ Petersfield (Fairley)	A. W. Leachman, Esq., MD	5	0 7	202 †	37·93	184
„ West Dean	Rev. E. Wells	5	1 0	137 †	31·24	174
„ East Liss (Hill Brow)	Mrs. S. S. Latter	5	1 0	500 †	39·01	183
„ „ (Newlands)	E. B. Falwasser, Esq. .	5	1 0	390 †	34·58	175
„ Alresford (Ovington)	Rev. H. F. La M. Stowell	5	1 0	221 †	33·37	167
„ West Liss (Hawkey)	Rev. G. A. Rideout ..	5	1 0	480	33·28	188
„ Greatham (King's Holt)	Mrs. Parr	5	1 7	279 †	31·30	131
„ „ (Manor House)	F. Coryton, Esq.	7	0 7	...	32·54	...
„ Horsebridge (Bossington)	W. H. Deverell, Esq., D.L.	8	1 0	92 †	32·03	186
† Winchester (Harestock)	Col. Knight	5	1 0	302 †	33·90	195
„ Liphook (Fowley)	E. A. Lee, Esq.	5	0 10	296 †	35·28	224
„ „ (White Hill Chase) ..	Col. R. H. Maude	5	1 0	300 †	31·94	172
„ Grayshott [Hindhead]	Mrs. Lyndon	5	1 0	660 †	33·99	186
„ Hartley Maudit Rectory	Rev. A. C. Hervey ...	5	1 1	540 †	27·02	137
„ Headley (Eveley)	Mr. T. Carter	5	1 3	295 †	34·06	159
„ Swarraton Rectory	Rev. W. L. W. Eyre...	5	1 0	310 †	33·62	186
† Alton (Ashdell)	F. Crowley, Esq.	8	3 6	433 †	34·72	168
„ „ (Eagles Nest)	„ „ „	5	52 4	505	21·83	...
„ „ (Shalden Manor)	J. G. Wood, Esq.	8	3 0	594	33·74	...
„ Whitchurch (Long Parish)	C. Durnford, Esq. ....	...	...	...	29·15	180
„ Andover (The Knoll)	G. H. Westbury, Esq..	5	0 10	196 †	33·47	167
„ Tidworth House [Ludgershall]..	Mr. G. A. Inglefield ...	5	1 8	357 †	32·99	191

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

STATIONS.	AUTHORITIES.	Rain Gauge			Depth of Rain.	Days on which 90 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
HAMPSHIRE—(con.)						
Crondall (Warren Corner) <i>old g.</i>	F. Wilkin, Esq.....	5	1 0	575 T	24.35	...
D " (" ") <i>new g.</i>	" " "	5	1 0	575 T	24.69	154
Oakley	Rev. F. G. Hume	5	1 6	400	30.50	176
D Basingstoke (Chapel Hill).....	G. Stephens, Esq.	5	1 0	328 T	27.16	170
D† " (Sherborne St. John).....	Rev. D. W. Chute.....	5	1 2	267 T	28.95	182
Winchfield (Sheldons)	C. E. Harris, Esq.....	5	1 0	296	25.65	183
D " (Bylands)	Lady Mary Scott	8	1 4	222	25.33	153
D " (Elvetham Park) ...	Mr. G. B. Mitchison ...	8	1 0	217 T	27.78	201
Farnborough (The Grange)	Major Holt	5	1 0	232 T	28.42	186
D " (The School)	Rev. G. C. Carter	5	2 0	257 T	26.80	188
D Hartley Wintney	Mr. W. G. Machin ...	5	1 2	222 T	25.61	189
" Grange	F. Walkinshaw, Esq... ..	8	1 0	221 T	26.14	176
Kingsclere	Dr. Maples	5	3 0	327 T	33.25	189
†Strathfield Turgiss.....	Mrs. Griffith	5	2 6	200 T	25.42	...
D Heckfield (Highfield Park)	F. B. Marson, Esq.	5	1 3	262	23.93	186
" (Park Corner)	J. Martineau, Esq.	5	1 2	257	22.50	156
BERKS.						
D Sandhurst Lodge	Sir W. J. Farrer	8	2 9	263	25.38	131
D Wellington College	S. A. Saunder, Esq.	5	1 0	283 T	25.36	161
D Aldermaston Wharf	J. T. Strange, Esq.	5	1 0	181 T	25.98	173
D Sunninghill (Lynwood).....	G. Rodie Thompson, Esq. ..	5	1 0	266 T	25.62	172
D Ascot (Winkfield Manor)	C. A. Ferard, Esq.....	5	1 0	240 T	24.19	178
D Shinfield (Clares Green)	W. Haines, Esq.....	5	4 6	160 T	23.27	157
D Hungerford (Kintbury)	Sur.-Gen. Woolfryes, CB ..	5	1 0	297 T	29.71	203
D Beenharn House	H. Waring, Esq.	8	2 2	320	24.19	159
D Bracknell (Warfield).....	Rev. B. C. Littlewood .	5	0 4	199 T	23.42	202
D Old Windsor (Beaumont College)	Rev. J. Scoles	5	1 1	96	24.59	153
D Windsor (Royal Gardens).....	Mr. T. Edwards	5	1 0	...	24.19	176
Reading (Englefield).....	Mr. J. Coombes	5	1 1	...	26.14	171
D " (Calcot Place).....	General Swettenham... ..	5	1 4	176 T	23.40	178
D " (Ellerslie)	Rev. A. Cheales.....	5	1 0	195 T	23.89	143
D " (Forbury Gardens).....	J. Bowen, Esq., C.E....	5	1 5	145 T	24.05	194
" (East Thorpe)	A. Palmer, Esq.....	5	3 0	157 T	24.01	163
" (Earley)	M. J. Sutton, Esq.	8	1 6	150 T	19.84	...
D Twyford (Haines Hill)	Mrs. Wedderburn.....	5	0 7	155	22.46	159
D Newbury (Welford Park) <i>old g.</i>	Mr. C. Ross	5	1 0	335 T	30.29	189
D " (" ") <i>new g.</i>	" "	5	1 0	341 T	30.71	189
D " (Weston)	R. Osmond, Esq.	5	1 4	335 T	26.82	180
Frilsham House	Mr. W. E. Austen.....	5	1 8	370	22.94	155
D Yattendon Court	Mr. R. Maker.....	5	1 0	450 T	26.09	128
D Lambourn (East Garston)	Mr. J. H. Spackman... ..	5	2 6	395 T	28.32	179
D Maidenhead (Stafferton Lodge)...	G. H. Palmer, Esq.	5	0 10	105 T	24.13	183
D " (Lowood)	Gen. Davies	8	1 0	167 T	25.05	164
D " (Cookham Vic.) ...	Rev. R. W. Rogers	5	1 3	90 T	25.15	156
D Temple House [Marlow]	Mr. G. Groves	5	1 0	106	26.35	207
D Wantage (Letcombe Regis)	S. W. Silver, Esq.	5	0 9	...	26.12	162
"	W. Hanson, Esq.	5	1 0	304	25.62	141

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which "01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
BERKS—(con.)						
Wallingford Castle	late J. Kirby Hedges, Esq.	5	1 0	175 ∇	22·60	167
^D Little Wittenham	J. Latham, Esq.	5	2 0	187	21·58	147
^D Long Wittenham (Manor Ho.)...	Adl. Clutterbuck	12	1 0	170 ∇	23·42	156
„ „ (Lovegrove's Cott.)	Rev. F. C. Clutterbuck	5	1 0	165	23·01	161
Faringdon	Mr. C. Luker	5	1 0	333 ∇	27·22	136
Abingdon (Caldecott House) ...	Maj.-Genl. T. M. Bailie	5	1 4	...	22·09	132
^D „ Union	Mr. J. Fray	5	1 0	196	21·87	178
„ (Sewage Works)	G. Winship, Esq., C.E.	5	0 6	169	19·89	100

DIVISION III.—SOUTH MIDLAND COUNTIES.

HERTS.

RATES.		1870.		1871.		1872.		1873.		1874.		1875.	
†	Rickmansworth (Moor Park).....	Rt. Hon. Lord Ebury ..	5	2	0	340	27-57	191					
D	Elstree (Aldenharn House)	Mr. E. Beckett	10	4	9	305	26-74	165					
D	Watford (Frogmore).....	A. P. Blathwayt, Esq.	5	1	0	182 T	26-98	179					
	„ (Colne Valley W.W.) ..	J. Hopkinson, Esq.	5	1	0	220	27-01	178					
D	„ (London Orphan Asylum)	Rev. Dr. Cockrem	5	1	0	230 T	26-43	183					
D	„ (St. Alban's Road).....	H. Ruddle, Esq.	5	1	0	...	22-84?	125					
	Barnet (Gas Works)	J. Hopkinson, Esq.	8	0	9	212	24-82	162					
	Chipperfield (Little Callipers) ..	A. W. Rivington, Esq.	5	0	7	407 T	23-57	...					
	Northaw (Northacre).....	Rev. F. W. Poland ...	5	1	0	...	24-12	185					
D	Broxbourne (Stafford House) ...	G. J. Newbery, Esq....	5	1	0	118 T	22-87	168					
D	Hemel Hempstead (Apsley Mills)	Messrs. J. Dickinson & Co.	24	0	9	260	31-82	180					
	St. Albans (Bone Hill)	J. Hopkinson, Esq.	5	1	0	336 T	26-12	197					
†	„ (Gorhambury).....	Mr. Newberry.....	5	1	0	425 T	27-37	193					
D	Gt. Berkhamstead (Rose Cottage)	W. E. Milner, Esq.	5	1	0	334 T	28-96	191					
	„ „ („ „) M	E. „ „ „ „ „ „ „ „	5	1	0	334 T	28-95	...					
D	„ „ (Rosebank) ..	E. Mawley, Esq.	8	1	0	401 T	28-91	186					
	„ „ („ „) M	„ „ „ „ „ „ „ „	8	1	0	401 T	28-54	...					
D	„ „ (Fairhill)	W. B. Hopkins, Esq....	5	1	0	548 T	26-81	188					
D	„ „ (Northchurch) ..	F. L. Sutton, Esq.	5	1	0	400	27-51	173					
D	„ „ (Gt. Gaddesden)	Rev. W. Tyrwhitt Drake	8	1	0	426 T	27-71	175					
	Gilston Park	Mr. W. Cooper	8	0	6	175 T	26-50	149					
	Hertford	W. B. Bryan, Esq., C.E.	8	6	0	119	21-93	165					
D	„ (Bayfordbury)	W. C. Baker, Esq.	8	1	2	250	24-10	190					
	„ (Marden Hill, Tewin)..	the late R. Hoare, Esq.	5	1	0	257 T	22-53	143					
	Tring (Pendley Manor).....	Mrs. Williams	5	2	0	500 P	22-91	207					
D	„ (Elm House)	E. J. Le Quesne, Esq..	5	1	2	460	28-01	183					
D	„ (Offside Cottage, Cowroast)	R. Leah, Esq.	5	1	6	400	29-74	186					
	„ (Cowroast)	G. Thomas, Esq.	5	3	8	394 T	29-72	165					
	Harpenden (Rothamstead)	Sir J. Gilbert	5	0	9	420 T	28-18	184					
	„ „ „ „ „ „ „ „	„ „ „ „ „ „ „ „	8	0	9	420 T	27-10	169					
D	„ „ „ „ „ „ „ „	„ „ „ „ „ „ „ „	72x87	0	9	420 T	29-34	186					
D	Ware (Red House).....	J. Francis, Esq., C.E..	5	4	0	112 T	21-88	154					
D	„ (Fanham's Hall)	Miss V. M. Croft	8	1	0	235 T	22-67	160					

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft. in.	feet.	inches.	
HERTS—(con.)						
D Welwyn (Bridge House)	B. W. Thomas, Esq., MD	5	6 6	...	25·33	176
D „ (Danesbury)	A. M. Blake, Esq.	5	2 0	400	26·70	172
D „ (Datchworth Rectory) ..	Rev. A. Amos	5	1 0	386 T	25·13	148
D Much Hadham	T. W. Mott, Esq.	5	1 0	222 B	24·06	157
D Kensworth [Dunstable]	Miss Jones	5	1 0	630 B	28·26	161
D Bennington House.....	Rev. Dr. Parker.....	5	1 0	408 A	23·30	197
D „	Miss C. Nihill.....	5	1 0	408	23·89	190
D Buntingford (Hamels Park)....	Mr. E. Wallis	5	1 0	400 T	24·51	138
D Hitchin (Preston)	R. de V. Pryor, Esq....	8	2 5	480 A	25·73	171
D† „ (Wratten).....	W. Lucas, Esq.	5	2 1	238 A	25·47	177
„ (The Maples)	W. Hill, Esq.....	8	1 1	220 T	23·47	177
„ (High Down)	J. Pollard, Esq.	5	1 1	422 A	23·29	169
D Weston Park	M. R. Pryor, Esq.....	5	0 8	470 T	24·41	180
D Buntingford (Throcking Rectory)	Rev. C. W. Harvey ...	5	1 0	484 T	24·49	178
D Baldock (High Street)	Dr. Langston Day.....	5	1 4	214 A	25·24	167
D Royston (Therfield Rectory)....	Rev. J. G. Hale	5	4 3	510 A	24·56	185
„ (Union Workhouse) ...	H. G. Fordham, Esq....	5	1 0	217	22·72	167
„ (Melbourne Street)	J. E. J. Phillips, Esq..	8	0 11	201 T	22·75	166
BUCKINGHAMSHIRE.						
D Eton (Tangier Island)	C. Sainty, Esq.	5	1 0	67 A	22·46	144
D Slough (Langley)	R. H. Major, Esq.	8	0 10	85 T	22·60	165
„ (Upton)	R. Bentley, Esq.	8	3 0	80 A	20·80	..
D „ „ „	„ „ „ „	5	2 0	78 A	22·98	165
Burnham (Fair View)	G. J. Williams, Esq....	5	3 0	162	22·94	120
D Taplow Court	W. H. Grenfell, Esq. MP	8	1 0	217 T	21·95	118
Greenlands [Henley-on-Thames]	Hon. W. F. Smith, M. P.	8	1 3	116	26·13	147
D Hedsor	Rt. Hon. Lord Boston.	8	1 0	170 T	26·85	166
Marlow Mills	T. H. Wright, Esq.	8	2 0	105	25·56	141
D Wooburn (The Chestnuts)	F. W. C. Read, Esq....	5	3 0	...	25·52	169
High Wycombe ..	H. S. Wheeler, Esq....	8	0 9	253 A	26·53	...
D Chalfont St. Giles (The Stone)...	Col. Phipps.....	5	1 4	270 T	28·56	184
D Amersham (The Plantation)....	G. Weller, Esq.....	8	1 0	464 A	28·72	182
„ (Rumseys)	G. M. H. Weller, Esq.	8	0 10	309 T	28·94	152
Great Missenden	Mr. W. Douglas	5	1 0	400	32·18	...
D Wendover (Halton Gardens) ...	Mr. Sanders	5	1 10	400	28·79	135
Bulbourne [Tring]	G. Thomas, Esq.	5	2 3	401 T	28·94	209
Waddesdon Manor	Mr. J. Jaques	6	1 6	346 T	26·09	177
Mentmore	J. Smith, Esq.	5	1 1	...	23·08	...
D Winslow (Botolph House)	R. Gray, Esq.....	5	1 0	414	26·31	170
D† „ (Addington Manor) ...	Rt. Hon. Lord Addington	8	1 0	309 A	26·80	179
„ „ „ „ M	„ „ „ „	5	1 0	309 A	26·17	..
D† Buckingham (Adstock).....	J. E. S. Weston, Esq...	5	0 9	352 T	24·73	172
D Stony Stratford (Thornton)	Mr. W. Sturdy	5	1 3	...	24·02	126
D Wolverton	Rev. W. L. Harnett ...	5	1 0	270 T	23·53	170
D „ (The School House)...	Mr. H. J. Hipsley ...	5	1 0	264	24·10	164
D Newport Pagnell	F. Littleboy, Esq.....	5	2 0	196 T	23·85	160

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ".01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
BUCKINGHAMSHIRE—(con.)						
Olney (Filgrave Rectory).....	Rev. J. Tarver	8	0 8	285	25·67	...
" (Brayfield House)	late G. D. Farrer, Esq.	5	0 7	200	24·26	162
OXFORD.						
Caversham Yard	W. Fenton, Esq. ....	...	...	...	22·50	151
" (Cane End House) ...	D. Vanderstegen Esq..	5	0 4	400 ?	24·38	142
Goring (Elmcroft).....	Major E. Gambier Parry	5	0 6	...	23·09	170
Henley-on-Thames (Greys)	Rev. Canon Pinder ...	5	2 6	370 B	25·81	...
" " (Northfield Ho.)	J. W. Guy, Esq.	5	1 0	120	28·02	188
" " (Highmore Vic.)	Rev. F. R. Harnett ...	5	1 0	500 T	29·08	179
" " (Henley Park)	M. J. Sutton, Esq. ...	5	0 8	410 T	24·19	...
" " (Assenton)	Mr. J. Ratty	5	1 0	281	26·43	156
Dorchester	Col. Blunt	5	0 6	169 T	22·39	161
" (Bishops Court)	T. Latham, Esq.	5	2 0	169	21·56	178
Abingdon (Culham)	Rev. F. C. Clutterbuck	5	1 0	200 T	23·09	177
Watlington (Pyrton Manor)	E. Hamersley, Esq.	5	1 0	321 T	25·70	173
Nuneham Park Gardens	Mr. Munday	8	3 0	280 T	25·73	175
Wheatfield Rectory	F. A. M. Spencer, Esq.	5	0 11	250	25·41	183
Toot Baldon (Potlands)	D. Clinkard, Esq.	5	1 0	288	22·92	178
Waterstock	W. H. Ashhurst, Esq..	8	3 0	206 T	22·93	178
Holton Park	Hon. T. F. Fremantle..	5	1 0	190 T	22·04	160
†Oxford (Mag. Coll. Laboratory) ..	E. Chapman, Esq., M.P.	5	1 0	186 T	23·34	176
" { " " " " } ..	" " " "	5	33 11	223 T	20·77	...
" (Radeliffe Observatory) ..	Dr. A. A. Rambaut, FRS	8	1 8	210 T	23·61	161
" { " " " " } ..	" " " "	11	2 4	210 T	24·58	150
" { " " " " } ..	" " " "	10	22 0	230 T	24·17	162
" { " " " " } ..	" " " "	10	112 0	320 T	15·97	148
" (St. Giles)	Miss Tawney	8	1 3	211 T	24·39	175
" (Norham Road)	Rev. C. B. Mount	10	1 2	206 T	24·13	166
" (Headington Hill)	Miss Davenport	5	0 10	354	26·72	157
" (Elsfield)	H. Parsons, Esq.	5	1 0	330 T	26·48	179
Stanton St. John	Miss Thomson	8	1 0	340	26·06	183
" " " (Woodperry) ..	J. Thomson, Esq.	6	1 0	399 T	26·96	186
Chipping Norton (Lyneham)	R. de M. Pratt, Esq.	5	1 7	351 T	30·38	164
" " (Kingham)	E. Lockwood, Esq. ...	5	4 0	442	30·63	131
" " { " " }	P. Phipps, Esq. ....	...	...	...	29·79	...
" " (Churchill)	G. Edmonds, Esq.	5	1 0	510 T	27·76	160
" "	A. Pettipher, Esq.	5	1 6	700 T	27·45	...
Bicester (Middleton Park)	Rt. Hon. Earl of Jersey	5	2 6	336 T	27·94	177
Steeple Aston (Hill House)	B. S. Ogle, Esq.	5	1 0	400	29·05	182
" " (The Grange)	E. W. Bradshaw, Esq.	8	1 0	400 T	27·31	164
Swerford	Mr. W. Hall	5	1 0	570 T	31·49	187
Banbury (Adderbury)	G. H. Norris, Esq.	5	1 1	338 T	27·56	184
" (Bloxham Grove)	W. H. Warriner, Esq.	8	3 10	387 T	27·39	153
" (Sibford Ferris)	J. Lamb, Esq.	5	1 0	590 T	30·01	143
" (" Gower)	S. N. Baker, Esq.	5	1 0	640 T	29·79	...
" (Bodicote)	J. F. Starkey, Esq. ...	8	1 3	388 T	27·99	172
" (Ark House School) ...	A. J. Beale, Esq.	5	1 0	310	26·90	190

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
NORTHAMPTON.						
▮ Brackley (East Hill)	Sir G. Bannerman, Bt.	5	1 0	425 ↑	29·58	197
▮ Grimsbury [Banbury]	W. E. Wood, Esq.	5	1 3	320 ↑	24·86	134
" ["]	A. B. Field, Esq.	8	1 9	320	25·09	...
Thorpe Mandeville [Banbury] ..	Mr. S. Baines.	5	1 0	530	28·85	116
▮ Towcester (Whittlebury)	W. S. Miller, Esq.	5	1 6	350	28·59	164
"	P. Phipps, Esq.	5	1 0	290	29·50	141
" (Easton Neston)	Mr. E. Slarke	8	1 0	340 ↑	29·80	176
Byfield (Woodford Halse)	C. A. Markham, Esq.	5	1 0	490	28·68	150
▮ Blisworth (Grafton House)	A. Westley, Esq.	5	5 0	330	26·38	171
▮ "	T. W. Millner, Esq.	5	1 6	300 ↗	24·84	174
" (Milton House)	C. A. Markham, Esq. ....	...	...	...	25·05	174
▮ Lichborough Hall	E. Grant, Esq.	5	1 10	500	29·58	185
▮ Daventry (Fawsley)	Lady Knightley	5	1 0	477 ↑	24·89	160
▮ Castle Ashby	R. G. Scriven, Esq.	5	1 0	263 ↗	26·35	203
Great Houghton	C. A. Markham, Esq. ....	...	...	...	27·00	162
Little Houghton .....	" " " .....	...	...	...	23·93	161
Northampton (Berry Wood)	" " "	8	1 4	399	26·78	146
▮ " (St. George's Place)	" " "	5	1 0	276 ↑	24·35	172
" (Freehold Street) ..	B. Burrows, Esq.	5	1 0	264 ↑	28·24	...
▮ " (Kingsthorpe)	S. Law, Esq.	5	1 0	280	25·35	169
▮ Althorp House	Miss Chowler	8	3 10	310 ↗	22·89	138
Great Brington	C. A. Markham, Esq. ....	...	...	...	22·97	139
▮ Sywell Hall	T. A. Dickson, Esq.	5	1 0	371 ↑	29·12	165
▮ Pitsford (Sedgebrook)	C. A. Markham, Esq.	5	1 0	311 ↗	27·53	158
" (")	M " " "	5	1 0	311 ↗	27·52	...
▮ Daventry (Waterloo)	F. F. Rodhouse, Esq.	5	1 3	436 ↗	30·18	187
Earls Barton Vicarage	C. A. Markham, Esq.	5	1 4	280 ↑	24·88	202
▮ Mears Ashby	J. L. Fawcett, Esq.	5	6 5	339	26·50	199
▮ Wellingborough (Swanspool) ..	N. P. Sharman, Esq.	5	0 2	155	24·00	184
▮ " (Croyland Abbey) ..	E. Sharman, Esq.	5	0 5	...	23·56	186
Watford Court	C. A. Markham, Esq. ....	...	...	...	30·18	185
▮ Ravensthorpe (Coton Mill)	G. S. Eunson, Esq.	5	1 0	355	28·10	173
Scaldwell	Capt. R. Soames	5	1 0	404 ↗	26·45	...
▮ Burton Latimer Rectory	Rev. W. B. Jacques ..	5	1 0	280	24·80	184
Hazelbeeck	C. A. Markham, Esq. ....	...	...	...	30·59	175
▮ Kettering (Sewage Works)	T. R. Smith, Esq., C.E.	8	1 0	199 ↗	24·67	182
▮ " (Queensberry Road) ..	P. Wallis, Esq.	8	1 3	300	26·01	185
▮ " (Headlands)	C. W. Lane, Esq.	5	1 0	288 ↗	25·27	193
▮ " (W.W., Cransley) ..	T. R. Smith, Esq., C.E.	8	0 6	275 ↗	26·07	176
Welford (Salford House)	J. Gee, Esq.	5	1 3	430 ?	32·39	208
Aldwinkle St. Peter	C. A. Markham, Esq. ....	...	...	...	23·85	183
▮ Barnwell (Lilford Hall)	Mr. E. Wilson	5	1 0	...	23·93	163
Oundle	J. M. Siddons, Esq.	5	3 4	105 ↑	22·53	145
East Carlton	R. T. Greaves, Esq.	5	1 0	321	25·99	...
▮ Corby (Weldon Grange)	J. Rooke, Esq.	8	1 0	342 ↗	27·11	210
▮ Rockingham Castle	Mr. W. Nobes	5	4 4	300 ↓	31·93	158
Kingscliffe (Fineshade)	C. A. Markham, Esq. ....	...	...	...	25·82	127
Peterborough (Thorpe Hall)	Col. C. I. Strong	5	1 0	30 ?	23·08	...
Barnack (Walcot Hall)	J. Griffith Dearden, Esq.	5	1 0	...	23·31	167

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
NORTHAMPTON—(con.)						
d Stamford (Collyweston).....	Baldwin Latham Esq. CE	5	1 0	315 T	26·00	162
d „ („ House).....	Miss Tasker	5	1 0	281 T	27·67	198
d „ (Easton)	N. Day, Esq.	5	0 9	271 T	24·96	174
d „ (St. Martin's).....	Mr. T. Booth	5	6 0	107 T	25·49	167
d Maxey Vic. [Market Deeping]...	Rev. W. D. Sweeting...	5	1 0	32 T	22·95	173
d „ „ [„ „] M	„ „ „	5	1 0	32 T	22·97	...
HUNTS.						
d St. Neots (Waresley Park)	Lady C. Duncombe ...	5	0 11	190	23·33	155
d „ (Great Paxton)	Rev. A. G. Cane	5	1 0	100 T	19·48	155
d Offord D'Arcy	W. Priestley, Esq.	5	0 9	80	21·24	171
d Buckden	P. M. Roxby, Esq. ...	5	0 6	85 T	20·91	182
d Huntingdon (Brampton)	Miss May Bird	5	1 1	39 T	22·37	173
d „ (Hinchingsbrook Gardens)	Mr. J. Barson	10	6 0	74 T	19·19	145
d Whittlesea Mere	A. Lunn, Esq., C.E. ...	8	1 6	...	18·92	129
d Yaxley (Norman Cross)	Mr. W. Allen	8	1 0	106 T	22·76	179
BEDFORD.						
d Luton (Pumping Station).....	A. J. L. Evans, Esq., C.E.	5	1 0	343 T	23·87	181
d Shillington	Kilham Roberts, Esq. ...	5	1 0	182	23·80	190
d Ampthill (Higham Bury).....	E. J. Jekyll, Esq.	5	1 0	310 T	25·94	196
d „ (Silsoe)	H. Trethewy, Esq.	5	1 0	214 T	27·13	159
d „ (Wrest Park).....	Mr. G. Ford	5	1 1	...	23·20	...
d Aspley Guise (Oaklands)	E. E. Dymond, Esq.	5	1 0	410 T	24·29	171
d Woburn (Crawley Farm)	H. M. Freear, Esq. ...	8	1 0	292 T	26·91	181
d „ (Fruit Farm, Ridgmount)	R. Lewis Castle, Esq. ...	5	0 8	270 T	25·06	159
d Stotfold [Baldock].....	Dr. J. E. de Lisle	5	1 0	220 T	23·25	185
d Biggleswade (Langford Vicarage)	G. Ewbank, Esq.	5	1 0	106 T	22·55	184
d „ (Old Warden)	Mr. W. C. Modrab ...	8	1 2	...	27·52	134
d Pottton (Wrestlingworth)	H. J. King, Esq.	5	1 0	119 T	21·34	162
d „ Vicarage	Rev. G. E. Gwynne ...	5	1 3	145	20·10	...
d Sandy (The Lodge)	Rt. Hon. Lord Peel ...	5	1 0	...	21·92	179
d Bedford (St. Peter's Street).....	W. Godfrey, Esq.	5	1 0	...	21·82	...
d „ (Milton Ernest)	F. Newbery, Esq.	5	5 0	137 T	27·54	152
d Turvey	Mr. J. W. Pascoe	5	1 6	...	23·70	152
d Sharnbrook (Colworth Gardens).	Mr. J. Hoad	5	2 0	250	24·46	156
CAMBRIDGE.						
d Odsey [Royston]	H. G. Fordham, Esq. ...	5	1 0	256 T	23·19	185
d „ [„]	„ „ „ „	5	1 0	256 T	22·67	184
d Foxton House [Royston]	A. P. Humphry, Esq. ...	5	0 10	60 T	21·30	198
d Abington Pigotts [Royston]	H. G. Fordham, Esq. ...	8	0 8	130	21·60	171
d Whittlesford (Sawston Vicarage)	Rev. C. E. Crump	5	1 0	86 T	21·93	181
d Harston	Mrs. C. M. Baldwin ...	5	0 8	47	20·21	168
d Carlton	G. H. Long, Esq.	5	1 0	340 T	25·94	164
d „ Hall	A. S. Nice, Esq.	5	1 6	290	27·07	179
d Longstowe Rectory	Rev. J. P. Sharp	5	1 3	227 T	25·90	199
d Trumpington	F. Parsons, Esq.	5	1 0	50	22·33	164

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which 101 or more fell
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
CAMBRIDGE—(con.)						
Trumpington (Gilmerton).....	S. Nutter, Esq.	8	0 9	...	20·10	187
Granchester Mill	H. G. Fordham, Esq....	5	5 0	31 ∇	20·42	158
Cambridge (Fulbourne Pumping Sta)	W. W. Gray, Esq., C.E.	5	1 0	37 ∇	22·58	200
" (W. W. Cherryhinton).	" "	5	1 0	35 ∇	20·86	181
" (Botanic Gardens) ...	H. G. Fordham, Esq....	8	0 9	40	20·94	157
" (Benet Place)	Rev. J. Wardale	5	1 0	42 ∇	20·70	181
" (Sidney Street)	W. E. Pain, Esq.	8	60 0	92 ∇	19·50	187
" (Pinehurst)	C. F. Foster, Esq.	5	0 10	36	19·89	174
" (Trinity College) ...	Registrar Gen. Returns	8	0 8	40	19·71	167
" Observatory	Sir R. S. Ball, F.R.S..	5	1 0	84 ∇	20·08	154
"	" "	8	0 10	84 ∇	19·74	149
" (Quy Hall)	H. G. Fordham, Esq....	5	0 5	61	20·87	163
Newmarket (Cheveley Park) ...	" " "	8	1 6	350	25·18	146
Lolworth Rectory	" " "	5	0 11	...	22·39	161
Burwell	" " "	5	2 0	58	22·21	156
Cottenham (Bernard House).....	A. Bull, Esq.	5	1 6	30 ∇	19·51	121
Soham	T. Everett, Esq.	5	1 0	25 ∇	22·16	156
Stretham (Dimocks Cote)	Mr. H. Nightingale ...	5	13 7	...	17·15	140
"	Mr. J. Housley	9	4 9	13 ∇	16·90	138
" (Orchard House)	Mr. C. Wright, Junr....	8	5 0	42	19·41	150
" Ferry (Elford Farm)..<	" " "	8	5 0	...	16·90	133
Ely (The Palace)	Rev. G. Bullock Webster	5	1 0	64 ∇	24·01	215
Mepal Engine.....	H. G. Fordham, Esq....	5	20 6	25	15·49	117
Littleport (Highfield House) ...	H. G. Martin, Esq.	8	2 7	67 ∇	20·89	153
Chatteris (Aylesby House)	A. H. Ruston, Esq.	8	0 6	45 ∇	21·25	154
" (The Priory)	H. F. Fryer, Esq.	5	0 7	45	22·67	115
" (Horseway Lock)	A. Lunn, Esq., C.E....	8	15 0	...	13·47	115
Stanground Sluice.....	" " "	8	1 6	...	20·39	118
March	" " "	9	2 0	...	21·50	154
Upwell (Marmont Priory Lock)..<	" " "	8	1 1	...	19·07	163
" (Euximoor House)	H. West, jun., Esq.	5	0 8	15 ∇	23·15	163
Thorney	A. J. Forrest, Esq.	8	3 6	9 ∇	20·32	157
" (Wryde House)	S. Egar, Esq.	5	1 0	7 ∇	21·27	168
Elm (Grove House)	F. L. Bland, Esq.	5	0 4	10 ∇	25·12	189
Wisbech (Bank House).....	A. Peckover, Esq.	8	0 8	6	24·77	172
" (Monica Road)	W. Climenon, Esq.	8	1 2	6	24·26	188
" (Gorefield Vicarage)....	H. G. Fordham, Esq....	5	1 1	6	23·12	154

DIVISION IV.—EASTERN COUNTIES.

ESSEX.

Grays Sewage Works	A. C. James, Esq., C.E.	8	2 3	12 ∇	18·63	164
Orsett	W. Powell, Esq.....	8	3 0	...	19·40	141
Barking Outfall.....	Sir A. R. Binnie, C.E..	8	0 6	6 ∇	19·43	157
East Ham	W. B. Bryan, Esq., C.E.	8	8 0	34	21·67	148
Shoeburyness	The Asst. Super. Expts.	8	0 8	1	17·31	146
"	M " " " "	5	2 6	3	17·73	...

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
ESSEX—(con.)						
D West Ham (Abbey Mills).....	Sir A. R. Binnie, C.E....	8	1 0	11 A	19·96	168
D Barking Cemetery	E. H. Lister, Esq.	5	1 0	18	22·33	143
D Southend (Water Works)	C. S. Bilham, Esq. ...	8	1 0	118 A	20·51	143
D " (" , Eastwood)	" " " "	8	1 0	50 A	20·00	141
Wanstead	W.B. Bryan, Esq., C.E..	8	6 0	25	19·22	156
D Romford (North Ockendon)	Rev. R. T. Crawley ...	5	1 3	100 I	18·67	155
Manor Park (Albany Road).....	A. J. Wilmshurst, Esq.	5	3 0	...	21·41	...
" " (") ^{new g.}	" " " "	5	3 0	...	22·01	...
D Leyton (Lea Bridge Road)	C. E. Jones, Esq., C.E..	5	1 0	49 A	20·06	164
D Upminster Hall	Captain Swinton	5	1 0	120 I	22·48	145
" " " M	" " " "	5	1 0	120 I	22·42	...
Walthamstow (Ferry Lane).....	W.B. Bryan, Esq., C.E..	8	1 0	30	20·83	150
Woodford (Hagger Lane)	" " " "	8	1 0	176 A	21·55	158
D Billericay (Norsey Manor)	Burnett Tabrum, Esq..	6	0 9	270 I	21·93	159
D " (Burghstead Lodge)	General Branfill	5	1 0	310 A	21·49	177
D Wickford (Runwell Hall).....	Col. H. Kemble	5	1 0	75 I	21·74	153
D Havering-atte-Bower	Mrs. Pemberton Barnes	5	1 0	...	20·92	161
D " Grange	G. P. Hope, Esq.	5	1 0	255 I	25·37	224
Buckhurst Hill	W. B. Bryan, Esq., C.E..	8	1 0	275	21·13	...
" " " "	" " " "	8	34 0	305 A	19·53	153
Chingford Mill	" " " "	8	1 0	40 A	20·53	147
D Brentwood (Shenfield Rectory)...	Rev. W. Quennell	5	1 0	305	22·73	164
Loughton (High Beech)	W. B. Bryan, Esq., C.E..	8	1 0	376 A	22·07	153
Southminster	H. Murton, Esq.	5	1 1	85 A	19·64	145
Waltham Abbey.....	W. B. Bryan, Esq., C.E..	8	1 0	62 A	22·55	165
D " " (Gunpr. Factory)	The Superintendent ...	5	2 0	64	21·53	164
Epping (The Hemnalls)	J. Nicholl, Esq.	8	0 8	345	24·30	132
Norton Mandeville (Readings)...	C. Clarke, Esq.	5	2 6	316	20·59	123
D Bradwell-on-Sea (Bradwell Hall)	J.C. Chillingworth, Esq.	5	1 1	27	20·58	131
D Danbury Rectory	Rev. J. Bridges Plumptre	5	1 0	365 A	20·06	169
D Writtle (Melbourne).....	E. Rosling, Esq.	5	0 9	140 I	19·91	155
D " " "	Miss Osborne	5	2 6	100	21·84	110
Chelmsford (High Street).....	F. Chancellor, Esq. ...	8	1 0	86 A	20·09	152
" " " "	F. Wykeham Chancellor	5	0 8	99	20·93	154
" (County Hortie. School)	A. E. Burgess, Esq. ...	5	1 0	...	19·89	128
D " (Spurgula)	J. C. Thresh, Esq., M.D.	5	1 0	136 I	20·17	149
D " (Springfield Place)...	Miss Jackson	5	0 11	143 A	20·24	164
D " (Roxwell)	R. W. Christy, Esq. ...	5	1 0	190 I	20·59	100
" (Broomfield)	W. Impey, Esq.	5	1 4	144 I	20·21	...
D Abbess Roding Rectory.....	Rev. L. Capel Cure ...	8	1 5	...	21·66	116
D Clacton-on-Sea	Mr. A. W. Shadick ...	5	1 0	45	18·66	170
Great Clacton (Clay Hall)	Philip Smith, Esq.	5	2 0	40 I	19·24	139
Witham (Little Braxted Hall)...	A. G. Taber, Esq.	5	1 0	50	20·32	171
D " (Terling Vicarage).....	C. Bontflower, Esq. ...	5	1 0	115 I	21·83	161
D " (Freebournes).....	the late J. Wakelin, Esq.	5	0 6	70	21·14	160
D Great Leighs	J. H. Tritton, Esq. ...	5	3 0	140 I	17·23	141
D Layer Breton Rectory	Rev. F. Owston	5	1 0	88	20·60	143
D Fingringhoe (Ballast Quay Farm)	T. B. Grubb, Esq.	5	1 0	47	19·35	151

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which "01 or more fell
		Diameter.	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
ESSEX—(con.)						
Colchester (Surrey Villa)	J. C. Hopwood, Esq. ...	5	1 0	110 T	23·10	158
D "	H. Goodyear, Esq., C.E.	8	21 6	87 T	15·12	144
D " (Hill House, Lexden)	S. F. Hurnard, Esq. ...	5	1 0	90 T	19·89	159
" " (Home Farm, ") M	Mr. W. Bird	5	1 0	90 T	19·43	...
D Braintree (Bocking, Fennes)	H. S. Tabor, Esq.	5	1 0	240 T	20·96	159
" " (" Place)	Mrs. Courtauld	8	2 3	212 T	22·41	144
D " (")	M. R. Taylor, Esq. ...	5	0 8	157 T	24·44	146
Dunmow (Saling Grove)	Capt. J. Nicolls Harrison	8	1 0	290 T	18·87	124
Earls Colne (Chalkney House)	H. F. Hills, Esq.	5	1 0	180 T	21·73	122
D Manningtree (Bradfield Lodge)	G. Hempson, Esq.	5	1 0	113 T	22·33	177
D Ardleigh	Rev. F. J. Ball	5	1 0	124 T	21·25	173
† Harwich (Ramsey)	Mr. Knights	5	0 6	80 T	23·31	195
Halstead	The Royal Meteor. Soc.	5	1 0	144	22·20	168
D Dedham (Dalethorpe)	J. D. Tremlett, Esq. ...	4	0 11	...	20·62	180
Langham Rectory	Rev. T. S. Raffles	5	0 7	134	22·40	182
Great Maplestead	T. F. Miller, Esq.	5	0 9	300	22·80	...
D Saffron Walden (Newport)	Rev. G. F. Tamplin ...	5	3 6	208 T	25·92	186
D " "	S. Leverett, Esq.	5	1 0	201 T	23·69	197
D " " (Audley End)	Mr. J. Vert	5	1 0	155 T	22·96	194
SUFFOLK.						
D Felixstowe (West View)	S. Alexander, Esq.	5	1 0	70	21·16	160
D† Erwarton Hall [Harwich]	J. A. Hempson, Esq. ...	8	0 6	75	23·62	173
D Ipswich (Museum)	F. Woolnough, Esq. ...	8	1 0	74	23·77	166
D† " (Woolverstone Park)	C. H. Berners, Esq. ...	8	1 0	100 T	22·95	179
D† " (Orwell Park)	Mr. J. Wallis	8	1 0	60 T	25·36	193
†* " (Belstead Hall) ... new g.	A. Harwood, Esq.	8	1 6	120 T	22·51	195
D Alderton Rectory	Rev. C. G. Archer	8	2 2	...	23·48	152
D Sudbury (Friars Street)	E. Ransom, Esq.	5	1 7	93 T	22·71	209
D " (Newton Road)	J. Alexander, Esq. ...	5	1 2	130 T	22·33	188
† Ipswich (Bishop's Hill)	late G. A. Biddell, C.E.	5	1 0	104 T	22·93	..
D† " (Clare Lodge)	E. R. Turner, Esq., C.E.	5	1 0	178 T	24·07	161
Hollesley Bay	The Meteor. Council ...	8	1 0	38	20·95	160
Boyton Rectory	Rev. A. Washington ...	8	2 2	30?	21·75	149
D Cavendish	S. J. Garrett, Esq.	5	1 0	...	24·25	175
Lavenham Hall	the late W. Biddell, Esq.	5	2 9	220	21·85	...
D Woodbridge Abbey	Major Carthew	8	1 2	48 T	22·93	179
" (Melton Asylum)	S. G. Longworth, Esq. ..	8	1 4	110	23·62	172
D† Rendlesham Hall	Rt Hon Lrd. Rendlesham	5	1 0	88 T	24·78	147
D Haverhill (Great Thurlow)	A. Boa, Esq.	5	1 0	241 T	22·56	199
Clare (Stansfield)	J. Slater, Esq.	5	1 0	300 T	25·03	...
D " (Hawkedon Rectory)	Rev. B. P. Oakes	5	3 4	305 T	24·33	199
Ash Bocking Vicarage	Rev. M. B. Cowell	5	1 0	231 T	25·41	160
" " " " " new g.	" " " " "	5	3 4	231 T	24·70	160
D Parham (The High House)	H. R. Smith, Esq.	5	1 0	93	24·12	131
Aldborough (Aldringham Ho.)	F. Garrett, Esq.	8	4 5	50 B	23·50	177
D Great Glemham	Col. Bloomfield	5	0 10	80 T	27·46	161

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
SUFFOLK—(con.)						
Little Saxham.....	Rev. H. I. Kilner	8	0 10	220	24·93	180
Bury St. Edmunds (Westley) <i>new g</i>	R. Burrell, Esq.	5	1 0	226 ∇	24·50	180
" " (Fornham St. Martin)	Rev. J. S. Pratt	5	1 0	100	22·81	177
" " (Hengrave)	Mr. W. Nichol	5	1 2	91	22·03	117
Bacton.....	C. H. Woods, Esq. ...	5	1 6	186 ∇	23·80	183
Darsham (Sibton)	Col. Ward	5	2 6	94	23·47	185
Ixworth (Walsham-le-Willows).	Miss M. C. Martineau..	5	1 0	...	26·09	190
Stradbroke Rectory	Rev. Canon Tate	5	1 3	172 ∇	26·31	149
Southwold	A. C. Herbert, Esq. ...	5	1 0	44 ∇	22·54	185
"	"	8	1 0	44 ∇	22·96	185
Ixworth (Barningham)	Miss A. K. Lingwood..	8	1 0	136	22·53	...
Elveden Hall	Rt. Hon. Lord Iveagh..	5	1 0	130	23·09	222
Beccles (The Staith)	Clifford Smith, Esq. ...	5	4 2	...	25·54	221
Lowestoft (Belle Vue Park)	C. W. Edwards, Esq. ...	5	1 0	86 ∇	23·80	175
" (The Clyffe, Corton)...	R. J. Colman, Esq. ...	5	1 0	62 ∇	25·14	192
" (Lound Pumping Station)	J. Hawksley, Esq.	8	1 0	74	24·47	151
Fritton [Yarmouth]	H. E. Buxton, Esq. ...	8	8 0	40	24·48	188
Gorleston (Springfield Road) ...	R. Whitehead, Esq. ...	5	7 0	48	25·52	156
Burgh Hall [Yarmouth]	H. P. Frederick, Esq. ...	8	1 2	45 ∇	21·75	186
Burgh Castle Rectory	Rev. Canon Venables...	5	0 7	40	22·76	170
NORFOLK.						
Pulham St. Mary	Miss I. M. Deedes	5	1 4	...	26·96	166
Santon [Brandon]	Rev. M. A. Gathercole.	5	0 10	32	23·26	...
Ellingham [Beccles]	H. Youngman, Esq. ...	5	3 0	...	23·02	102
† Geldeston ["]	E. T. Dowson, Esq. ...	5	1 0	38 ∇	24·59	206
" ["]	M " " "	8	1 0	38 ∇	24·08	...
Raveningham Hall [Beccles] ...	N. H. Bacon, Esq. ...	8	1 3	...	24·03	151
Saxlingham Nethergate	Mrs. Pitt	8	1 2	...	25·23	184
Wymondham	E. B. Pomeroy, Esq. ...	8	1 3	118 ∇	26·61	209
Watton	R. Martin, Esq.	5	1 0	166 ∇	27·28	188
Hingham	G. Dobbs, Esq.	5	1 1	188	28·58	200
Norwich (Dunston Hall)	A. W. Preston, Esq. ...	...	...	...	27·88	187
Denver	" " " "	8	1 0	80 ∇	24·49	163
Stoke Ferry (Wereham)	G. Read, Esq.	5	2 3	66	26·63	168
Wymondham (Hethersett)	A. W. Preston, Esq. ...	6	1 3	163	26·09	219
Keswick Old Hall	E. Knight, Esq.	5	1 0	...	29·94	204
" Lodge	A. Cole, Esq.	5	...	...	30·30	214
Outwell Sluice	A. Lunn, Esq., C.E. ...	9	...	16	21·53	170
Moulton	A. W. Preston, Esq. ...	...	...	...	20·22	...
Emneth	F. M. Bland, Esq.	6	1 0	6	24·64	146
Yarmouth (Sailors' Home)	The Meteor. Council ...	8	4 0	12	24·74	201
" (Market Place) <i>new g.</i>	W. C. Steward, Esq. ...	5	1 0	...	25·64	207
Norwich (Postwick Hall)	Miss E. F. Cross	5	1 1	5	25·85	198
" (Carrow House)	R. J. Colman, Esq. ...	5	1 6	35 ∇	26·07	146
† " (Brundall)	A. W. Preston, Esq. ...	5	1 0	66 ∇	26·99	222
" (Essex Street)	F. Dix, Esq.	9	2 6	88 ∇	27·86	195
" (Ipswich Road)	J. H. Willis, Esq.	5	1 0	110 ∇	28·52	212

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
NORFOLK—(con.)						
D* Norwich (Newmarket Road)	J. T. Hotblack, Esq....	8	1 2	89 ∇	29.90	252
D „ (Heigham)	A. W. Preston, Esq....	5	3 2	37 ∇	28.69	194
D Acle	F. Cufaude, Esq.	5	0 6	51	25.03	204
D Swaffham	W. H. Plowright, Esq.	5	5 0	250 ∇	29.64	193
„ (Homewood)	F. Everett, Esq.	5	2 6	210	32.44	180
Honingham	A. W. Preston, Esq....	...	...	...	27.00	219
D Sprowston (Oak Lodge).....	T. Cozens Hardy, Esq.	5	1 0	101 ∇	26.08	207
East Dereham	G. H. Cooper, Esq.	8	3 0	161	29.71	170
Sporle (Petygards).....	WEG Wyrley-Birch Esq	5	0 9	...	24.75	176
„	A. W. Preston, Esq....	...	...	...	28.43	211
D Swaffham (Dunham).....	A. G. Copeman, Esq....	5	1 1	320	28.53	208
D Salhouse	Rev. T. F. Boddington	8	1 0	50	24.72	196
Wiggenhall (Outlet Syphons)...	A. Lunn, Esq., C.E.	8	1 6	...	25.70	152
D Tilney St. Lawrence (Aylmer Hall)	W. B. Parsons, Esq....	8	1 2	9	25.94	192
D Bylaugh Park Gardens	Mr. G. Beeton	5	1 0	130 \uparrow	32.53	184
Litcham (Mileham Hall)	A. Collison, Esq.	5	1 7	...	30.15	179
D Reepham (Whitwell Vicarage)..	F. W. Freeman, Esq....	8	1 2	120	29.45	209
Cawston	Rev. T. H. Marsh	5	1 0	135 \uparrow	29.78	209
Aylsham (Woodgate)	B. J. W. Purdy, Esq....	5	1 0	100 \uparrow	30.25	195
D North Walsham (Dilham)	Rev. J. A. Lawrence....	5	0 8	...	26.25	228
D „ „ (Worstead)	R. Cross, Esq.	8	1 0	...	26.61	197
D „ „ (E. Ruston Grange).....	W. S. Horn, Esq.	5	1 0	20 \uparrow	23.97	194
Hillington Rectory	Rev. H. Ffolkes	8	1 0	89 ∇	32.52	212
Fakenham (Pensthorpe)	W. Hamond, Esq.....	5	2 6	153	29.65	...
Cromer (Northrepps Hall)	Mrs. R. Gurney	5	0 4	200	28.66	218
D Holt (The Yuccas)	Mr. T. A. Craske	5	1 3	210	29.33	213
D „ (Field Dalling)	J. H. Pearson, Esq.	5	1 3	158 \uparrow	26.98	187
Burnham Overy	Mr. W. L. Porritt .....	...	4 0	...	26.89	...
Blakeney	C. I. Temple Lynes, Esq.	5	1 3	29	26.42	200

DIVISION V.—SOUTH WESTERN COUNTIES.

WILTS.

Larmer Grounds [Shaftesbury]...	the late Genl. Pitt Rivers	5	2 6	500 \uparrow	39.71	175
Rushmore [Shaftesbury]	„ „	5	2 6	500 \uparrow	39.15	164
Landford (Northlands)	Mrs. Wigram	5	1 10	167 ∇	31.89	197
D Donhead St. Mary (Charlton Ho.)	Col. G. Best	5	0 7	514	40.45	196
D Broadchalke	Rev. E. J. Satterthwaite	5	1 0	300 \uparrow	35.05	170
† Alderbury	Rev. Canon Hutchings.	5	0 8	263 ∇	29.68	169
Tisbury (The Academy)	J. Bristol, Esq.	5	0 9	380 \uparrow	35.80	...
East Knoyle	<i>Anonymous</i>	5	2 0	600	37.33	149
Salisbury (Tintinhull)	J. Lardner Green, Esq.	8	1 0	202 \uparrow	30.77	...
D „ (Brown Street)	T. H. Baker, Esq.....	5	1 0	170	33.73	192
D „ (De Vaux Lodge)	H. Peniston, Esq.	5	1 0	150	30.95	164
† „ (Wilton House).....	T. Challis, Esq.	8	0 5	180 ∇	37.49	181
Winterslow (Roche Court)	T. T. S. Metcalfe, Esq.	5	1 0	459 \uparrow	31.99	198

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
WILTS—(con.)						
D Winterslow (Roche Court) <i>new g.</i>	T. T. S. Metcalfe, Esq.	5	1 0	459 T	29·77	198
D† Mere (Dews House)	Miss E. B. Rutter	5	1 7	384	36·37	139
† „ Vicarage	Rev. J. A. Lloyd	5	3 0	370	35·99	...
D „ (Charnage)	A. R. White, Esq.	5	1 0	426 T	37·62	183
† Maiden Bradley	Duke of Somerset	8	1 6	626 T	40·43	183
D† Warminster (Rye Hill)	S. E. Jefferys, Esq.	8	2 0	466 T	39·00	192
Salisbury Plain (Chitterne House)	R. Hayward, Esq.	11	4 0	319 T	29·17	179
D Amesbury (Shrewton)	F. J. Wardale, Esq. ...	5	0 9	320	31·87	173
D Warminster (Downside)	Mrs. Stent	8	2 3	393	34·63	183
D Ludgershall (Conholt Park)	G. Knowles, Esq.	5	1 0	750 T	36·00	213
D „ (Collingbourne Kingston)	Baldwin Latham Esq CE	5	1 0	470 T	30·54	179
D Market Lavington	Mr. J. H. Selfe	5	3 0	300	30·91	206
Trowbridge (Water Works, Biss)	W. W. Gray, Esq., C.E.	5	1 0	311	36·36	162
„ (Wingfield)	Mrs. Bayfield Clark ...	...	...	...	32·41	176
D „ (Rood Ashton)	Mr. W. Strugnell	8	1 6	250	32·18	193
Bradford (The Chantry)	Dr. Beddoe, F.R.S. ...	5	0 9	125	30·17	172
D „ (Winsley Manor)	E. W. Knatchbull, Esq.	5	0 6	400	30·34	180
D „ (Holt)	A. J. Beaven, Esq. ...	5	1 2	120	30·18	177
Devises (Wilts Co. Asylum) ...	Dr. Ireland Bowes	8	2 3	385 T	32·00	159
D Buttermere	Rev. W. E. Burkitt ...	5	2 6	847	32·64	180
D Shalbourne (West Court)	Mr. T. Barns	5	1 0	640 ?	32·78	191
D Bishop's Cannings	Rev. C. W. Hony	5	1 0	446 T	32·08	199
D Devizes (Shepherd's Shore)	Mr. J. Carter	5	1 6	555 T	30·05	179
D Chippenham (Lacock)	Miss Awdry	5	0 11	202 T	30·83	184
„ (Langley Burrell) ..	Rev. A. B. Mynors ...	8	1 2	...	29·58	149
Marlborough (Preshute House) ..	Mr. G. E. Mew	5	0 9	...	32·90	...
D „ (Mildenhall)	Rev. G. Soames	5	1 0	456	32·93	166
D Calne (Calstone Rectory)	Rev. G. R. Hadow	5	0 9	382 T	31·81	192
D „ (High Street)	Mr. H. Wilkins	5	3 6	244 T	27·90	167
D „ (Compton Bassett)	Mr. W. A. Cook	8	1 0	385 T	32·87	194
Yatesbury	Rev. E. D. Guillebaud.	5	0 9	564 T	35·46	...
Ramsbury (The Rookery)	F. C. Batson, Esq.	5	1 0	390 T	27·12	175
D† Swindon, New	H. J. Southwell, Esq. ...	8	0 11	378	25·98	187
Malmesbury (Charlton)	Lady Victoria Howard	8	0 6	...	31·69	148
Highworth (Hannington Hall) ...	A. D. Hussey-Freke, Esq	5	1 0	400	25·59	178
DORSET.						
Portland Bill	The Meteor. Council ...	...	...	...	26·71	167
D Portland (The Manse)	Rev. W. R. Waugh ...	5	1 6	10	29·20	177
Weymouth (Wyke Regis)	Mrs. Pretor	5	0 9	158 B	30·30	152
„ (The Nothe)	The Royal Meteor. Soc.	5	1 0	79	27·10	158
Swanage (Royal Victoria Hotel)	H. B. Vincent, Esq.	5	1 11	26 T	29·42	161
„	Rev. H. Pix	5	2 0	60	30·99	173
D East Fleet (Fleet House)	Dorset Field Club	5	1 1	48	29·27	156
D Chickerell (Montevedio)	Mrs. N. M. Richardson	5	1 0	150	28·69	182
D West Lulworth Vicarage	Rev. W. Percy Schuster	5	1 0	128 T	33·80	167
D Abbotsbury (New Barn)	Mr. J. C. P. White ...	5	1 6	111 T	29·33	177
D Portisham	W. Symes, Esq.	5	1 3	260	32·28	172

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
DORSET—(con.)						
D Winterbourne Steepleton.....	H. Stilwell, Esq.	8	1 0	316 π	41·06	184
D Wareham (Castle Gardens)	S. W. Bennett, Esq. ...	5	2 6	18	32·66	177
D „ (Binnegar Hall)	O. C. Farrer, Esq.	5	1 0	65	37·54	192
D Winterbourne Herringstone.....	R. B. White, Esq. ...	12	3 1	200	37·82	163
Dorchester Water Works.....	G. J. Hunt, Esq.	8	1 2	315 π	38·00	178
D „ (Wollaston House) ...	Capt. Acland	5	1 0	200 π	39·08	180
D Poole (Parkstone)	R. H. Barnes, Esq. ...	5	0 11	198 π	32·55	200
D „ („)..... <i>new g.</i>	„ „ „ „	5	1 0	198 π	33·19	200
D Lyme Regis (Colway Cottage)....	J. Spurr, Esq.	5	1 0	250	34·63	187
Bridport (Coneygar)	H. Gordon, Esq., C.E.	5	1 0	110 \uparrow	36·67	167
Bere Regis (Bloxworth Rectory).	Rev O. P. Cambridge FRS	5	1 3	205 \uparrow	37·13	164
D Maiden Newton (Cattistock Lodge)	E. S. Wilmot-Sitwell Esq	5	1 0	350	43·54	173
D Sturminster Marshall (Bailie Ho.)	Rev. J. Cross	5	0 6	85	34·20	182
Wimborne (Codford).....	G. H. Batterbury, Esq. MD	5	1 0	69 \uparrow	38·47	202
D Beaminster Vicarage.....	Rev. A. A. Leonard ...	5	1 0	216 \uparrow	40·36	184
„ (Fleet Street)	J. Andrews, Jun., Esq.	5	1 0	200 \uparrow	40·04	175
D Blandford (Whatcombe)	J. Mansel-Pleydell, Esq.	5	0 10	270 π	37·55	196
D Broadwindsor	Rev. G. C. Hutchings..	5	0 7	540 \uparrow	42·41	174
D „ (Blackdown House)	C. E. M. Pinney, Esq..	5	0 9	515	42·22	185
D Winterbourne Houghton	Rev. H. H. T. Bassett.	8	0 6	451	36·31	155
D Cerne Abbas (Melbury).....	Mr. R. Rintoul	5	1 6	500	42·67	144
Chedington Court	Mr. H. Birkinshaw ...	5	1 0	605	42·33	163
D*Wimborne Minster (Chalbury)...	Rev. G. H. Billington..	5	2 0	338 π	31·09	168
D „ „ (Horton) ...	Rev. G. Wellington ...	5	1 0	135 \uparrow	34·27	181
D Verwood	W. R. Fryer, Esq.	5	3 0	180	33·91	170
D Holwell (Westrow)	Mr. G. Coffin	5	1 0	252	37·79	154
D Iwerne Minster (Shroton).....	Adl. Stopford	5	1 2	200	34·83	175
D Sturminster Newton (Riverside).	A. R. Hallett, Esq. ...	5	5 0	200	31·80	130
D Sherborne (Coombe Farm)	S. Creed, Esq.	5	3 0	373 π	36·47	182
„ (Castle).....	Mr. T. Turton	5	1 0	150	34·06	182
Shaftesbury	Royal Meteor. Soc. ...	5	1 0	722	36·43	205
D Buckhorn Weston.....	Rev. W. Hughes D'Aeth	5	1 0	285	28·47	174
D Gillingham	S. H. Stephens, Esq....	5	1 2	244 \uparrow	34·80	180
DEVON.						
D Salcombe (Shadycombe)	Mr. T. Langmead	8	1 2	20	44·75	143
South Huish	W. Balkwill, Esq.	5	5 6	68 \uparrow	35·80	...
D Revelstoke (Membland)	Mr. G. Baker	5	1 0	180 \uparrow	40·68	157
Dartmouth (Redlap House)	L. Karslake, Esq.	5	1 1	220 \uparrow	35·04	210
Plymouth (The Hoe).....	H. V. Prigg, Esq., C.E.	8	0 10	117 π	39·92	204
„ (Freedom Field)	„ „ „ „	8	0 10	208 π	43·88	210
D „ (Drake's Reservoir)...	F. Howarth, Esq., C.E.	5	1 0	149 π	39·72	197
D*Devonport (Rowdens Res.)	H. Francis, Esq., C.E.	5	1 0	201 π	36·87	206
D Ivybridge (Langham Hill) <i>new g.</i>	Miss Glanville	5	1 0	400 \uparrow	54·12	207
„ (Blackadon Asylum)...	H. V. Prigg, Esq., C.E.	5	1 0	607	62·47	219
Plympton (Hemerdon) ... <i>garden</i>	Rev. G. L. Woolcombe	5	4 0	360	47·33	...
„ („) <i>tennis court</i> „ „ „	„ „ „ „	5	1 0	365	49·04	...
South Brent (Great Aish).....	Miss Kingwell	5	1 0	500 \uparrow	66·83	204

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which "01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft. in.	feet.	inches.	
DEVON—(con.)						
Totnes (Fernleigh).....	L. J. Oldreive, Esq.	5	1 1	94	47·70	174
Bere Ferrers	Rev. F. T. W. Wintle.	5	1 0	100	51·40	206
D Bickley (Roborough Reservoir)..	F. Howarth, Esq., C.E.	5	1 0	550 A	49·93	220
D Torquay (Cary Green)	F. March, Esq.	5	1 0	12	33·09	180
„ (Chapel Hill)	„ „ „	5	1 0	275	33·42	188
D „ (Watcombe Park)	Col. C. Ichabod Wright	5	1 0	483 A	36·91	175
† Lee Moor Clay Works	T. Martin, Esq.	8	1 6	950 T	65·78	...
Buckfastleigh (Bossel Park) ...	J. Hamlyn, Esq.	5	1 0	250	63·82	201
D Meavy (Yelverton)	Dr. H. J. S. Liddell ...	5	7 0	627 A	64·39	189
D† Sheepstor Vicarage	Rev. C. H. Crooke.....	5	0 7	730 A	63·19	186
„	F. Howarth, Esq., C.E.	5	1 0	1024 A	66·44	...
D† „ (Red Stone)	„ „ „	5	1 0	760 A	65·89	215
D „ (Burrator)	„ „ „	5	1 0	755	63·58	215
D† „ (Head Weir).....	„ „ „	5	1 0	720 T	62·97	214
D† Dartmoor (Lowery)	H. Francis, Esq., C.E.	5	1 0	890 T	62·66	194
D† „ (Deancombe Farm) ...	F. Howarth, Esq., C.E.	5	1 0	830 A	66·30	189
D† „ (Leather Tor Farm)...	„ „ „	5	1 0	910 A	63·32	206
„ (Nuns Cross)	„ „ „	5	1 0	1200 A	67·30	...
„ (Leeden Tor).....	„ „ „	5	1 0	1270	49·34	...
D Kingskerswell (South Hill)	E. A. Foster, Esq.	5	1 0	270 T	34·59	182
D Abbotskerswell (Court Grange)..	Mrs. Marcus Hare	5	1 0	150 B	42·35	161
D Ashburton (Holne Vic.)	Rev. J. Gill.....	5	1 6	650 B	55·92	212
D† „ (Druid House).....	Fabyan Amery, Esq....	5	1 0	572 T	54·98	188
Kingsteignton (Teignbridge Ho.)	F. H. Plumptre, Esq....	5	1 2	27 A	37·54	172
D Teignmouth (Woodlands)	W. B. Harris, Esq.	8	1 2	98	32·48	172
„ (Bonnieliff)	Capt. J. Horner	5	1 0	260 T	32·65	182
D Tavistock (Statsford, Whitechurch)	E. E. Glyde, Esq.	5	1 0	594 A	59·99	224
D† „ (Public Library)	Mr. J. Quick	8	20 0	283 T	50·29	203
Princetown	The Royal Meteor. Soc.	5	...	...	87·81	193
„ (N. Hessary Tor) No. 1g.	F. Howarth, Esq., C.E.	5	1 0	1625	60·66	...
Dartmoor (Cowsic Valley).....	H. Francis, Esq., C.E.	8	1 6	1352 A	75·65	...
D Chudleigh (Ideford) ...	Rev. G. J. Ford.....	4	1 0	300 A	34·62	207
D Bovey Tracey (Colehays)	Mr. E. E. Underdown.	5	1 3	415 T	49·27	183
† Milton Abbot (Endsleigh).....	Mr. F. Yole	5	1 0	180 T	50·36	...
D Dawlish (Mamhead Rect.)	Rev. W. C. Plenderleath	5	1 0	467 A	40·35	212
D Starcross (Cofton Vicarage)	Rev. C. F. Benthall ...	5	2 0	60	28·55	163
D Exmouth (Nidderdale)	Mrs. Stewart	5	1 0	51	28·39	170
D „ (Betworth)	C. M. Powell, Esq.	5	1 0	115 T	30·07	179
D Chudleigh (Tottiford)	W. Ingham, Esq., C.E.	8	4 0	718 A	40·77	205
„ (Trusham)	Rev. O. H. Cary	5	1 0	322 T	38·63	186
D Budleigh Salterton (Syon House)	H. W. Drummond, Esq	5	1 0	...	27·67	162
D „ (Bicton).....	Mr. Mayne	5	1 0	90	29·92	167
D Kenton (Southtown House)	Major Courtenay	8	2 6	56 A	35·13	201
Coryton	Mr. T. M. Symons	5	2 0	285	49·03	178
D Polapit Tamar [Launceston] ...	R. C. Coode, Esq.	5	2 9	315 A	41·15	213
Yeolmbridge	Mrs. Boyd-Wallis	5	4 10	260 T	43·59	180
D Christow (W. W., Kennick).....	W. Ingham, Esq., C.E.	8	1 0	842 A	40·66	209
„ (Laployd)	„ „ „	5	1 0	1030 A	34·00	...

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter.	Height Above Ground.	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
DEVON—(con.)						
Christow (Blackingstone)	W. Ingham, Esq., C.E.	5	1 0	1090 A	29·88	...
+Sidmouth (Sidmount)	The Royal Meteor. Soc.	5	1 0	149 A	30·89	186
n*Rousdon [Lyme Regis]	the late Sir C.E. Peek, Bt	5	1 0	516 A	33·77	182
* " " " " " M	" " " " "	3	1 0	516 A	32·33	...
+Cleveland's [Lyme Regis]	Mr. C. W. Bloye	5	1 11	465 A	35·69	179
d Exeter (Heavitree)	R. H. Cecil Baker, Esq.	8	1 2	175 B	31·85	160
d " (Devon & Exet. Inst.) ...	A. R. Allinson, Esq. ...	5	13 7	155 A	31·05	191
d+ " (Manston Terrace)	Miss Dymond	5	1 0	166 A	30·39	176
d " (Elmfield)	W.B. Heberden, Esq. CB	5	4 0	100	28·14	183
d+Okehampton (Oaklands)	Genl. Holley	5	1 0	521 T	48·54	184
Exeter (Brampfordspe Station)	Mr. A. Tucker	5	1 0	83	29·95	144
d Honiton (Ivedon)	Col. James	5	1 0	430 T	34·10	195
d Culloompton	T. Turner, Esq.	5	1 0	202 A	35·53	193
d Petrockstow (Heanton Satchville)	Mr. A. Eames	5	1 0	332 T	40·69	199
d Tiverton (Broomhill)	Mrs. Dickinson	5	1 0	380	35·72	183
d " (St. Peter Street)	Miss Gill	5	6 0	270	35·80	206
d Otterford (Otterhead)	R. Lewis Lloyd, Esq. ...	5	1 0	735 A	39·54	209
d Torrington (Reservoir)	H. Geen, Esq.	5	1 0	507 A	42·87	201
d " (Enfield)	G. M. Doe, Esq.	5	1 0	336 A	43·07	201
d " (Stevenstone)	Mr. W. Gillies	5	1 0	420	45·21	204
d " (Little Silver)	Mr. P. H. Griffin	5	1 0	395	45·18	200
d Parkham (Melbury Moor)	Baldwin Latham Esq CE	5	1 0	623	55·98	235
d " (" Reservoir) ...	" " " " "	5	1 0	516 A	56·20	228
d Romansleigh Rectory	Rev. J. H. Thompson..	5	1 0	590 T	42·67	223
d Bampton (Huntsham)	H. Acland Troyte, Esq..	8	1 0	640	46·64	208
d " (Wonham)	Mrs. J. R. Holland ...	5	1 0	530	42·20	193
d Hartland Abbey	Mr. G. Sleep	5	1 6	222 T	43·71	164
Alverdiscott (The Firs)	F. A. Trevan, Esq. ...	5	2 6	330 T	43·46	208
d Abbotsham (Riccard's Down) ...	Mrs. Hibbert	5	1 0	97 A	39·30	207
d South Molton (East Street)	N.C.Hatherly, Esq.M.D	5	1 0	430 B	41·58	194
" "	Rev. F. King	5	1 0	515 T	45·91	194
d " " (Castle Hill School)	Mr. W. H. Reeve	8	1 0	363	47·18	232
" " (" " Gardens)	T. Wainwright, Esq....	...	...	317	48·19	200
d Bideford (Gammaton W. W.) ...	Baldwin Latham Esq CE	5	1 0	335 A	39·12	190
*+ " (Horwood)	Rev. J. Dene	5	1 0	288 T	33·52	201
" (Northam, St. Helen's)	Miss L. Bowles	5	0 10	67 T	40·13	204
d*+ " (")	Rev. Preb. Churchward	5	1 0	173 A	38·35	194
d Westward Ho. Beacon Lights ...	J. W. North, Esq.	5	1 0	50 ?	33·19	201
Instow	Miss Lock	5	1 0	100 B	33·86	172
d Barnstaple Athenæum	T. Wainwright, Esq....	8	1 0	25 T	40·26	192
Braunton (Preston House) ...	Miss Durham .....	...	...	...	33·35	171
d Barnstaple (Arlington Court) ..	Lady Chichester	5	1 1	613 B	61·81	228
" " " " ") ...	" " " " "	5	1 0	613 B	59·63	228
d Woolacombe	E. Henshall, Esq., C.E.	5	1 0	60 A	34·23	201
Parracombe	Rev. J. F. Chanter ...	5	3 0	795 T	52·37	200
Ifracombe Hotel	The Royal Meteor. Soc.	5	1 0	24	45·00	188
d Martinhoe Rectory	Rev. R. W. Oldham ...	5	2 3	808	52·92	208
+Lynton (Lee Abbey)	C. F. Bailey, Esq.	5	0 6	320 T	40·86?	...

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell.
		Diameter	Height above Ground.	Height above Sea Level		
			ft. in.	feet.	inches.	
DEVON—(con.)						
D Lynton (Gwynallt)	A. L. Ford, Esq.	8	0 8	284 T	48·49	197
D „ (Glenthorne)	Mr. W. Mead	5	0 9	93	50·87	139
D „ (Rock House)	T. H. Mead-Briggs, Esq.	5	0 11	22	44·27	193
CORNWALL.						
Mullion	R. Thomas, Esq.	5	1 0	200	37·70	164
D St. Keverne (Rosuic Cottage) ...	G. W. Jevons, Esq. ...	5	1 0	250 T	47·95	204
D Penzance (Morrabs)	C. H. Benn, Esq.	5	1 0	55	48·85	231
„ (Penlee)	J. Branwell, Esq.	5	1 0	71 T	49·57	214
D „ (St. Clare)	Rev. Preben. Hedgeland	5	1 0	213 T	46·75	229
Marazion	T. W. Field, Esq.	5	2 0	30 ?	42·35	203
D Falmouth (New Observatory) ...	E. Kitto, Esq.	11	2 0	169 T	50·66	213
„ („ „)	„ „ „	8	1 9	169 T	50·58	211
D „ (Gyllingvase)	A. Wilson, Esq.	8	1 0	50	40·07	208
D Flushing (Trefusis)	W. Knatchbull, Esq.	5	0 4	200	45·02	192
D Falmouth (Carclew)	Mr. J. Simmons	5	0 9	...	51·98	190
D St. Ives (Phillack Rectory)	Rev. Canon Hockin ...	5	1 0	70	40·76	191
„ „	Gavin Hope, Esq.	5	4 0	138 T	48·70	183
D Redruth (Trevince)	E. B. Beauchamp, Esq.	8	0 8	240 T	50·22	218
„ (Tolvean)	A. Lanyon, Esq.	5	0 9	365	51·66	179
D „ (Trewirgie)	A. P. Jenkin, Esq.	5	1 0	400 T	50·88	214
D „ (Tehidy Park)	Mr. A. Mitchell	8	1 1	287 T	47·52	214
D Truro (Killiow)	J. C. Daubuz, Esq.	5	1 0	230 T	48·63	193
D† „ (Royal Institution)	G. Penrose, Esq.	5	43 0	83 T	46·17	212
„ (W. W., Lower Tregurrow)	Mr. W. J. Lean	5	9 0	71 T	46·37	209
D „ (Agar Villa)	Mr. C. Barrett	5	3 9	50 B	49·10	209
Grampound (Heligan)	Gavin Hope, Esq. ....	...	...	...	46·41	...
D Probus (Lamellyn)	H. Tresawna, Esq.	5	0 6	240	45·08	177
St. Agnes	C. Twite, Esq.	5	5 6	315 B	41·70	188
D Fowey (Menabilly)	Mr. W. H. Bennett ...	5	1 0	150	50·09	184
D†*St Austell (Trevarna)	W. M. Coode, Esq. ...	5	0 6	300 T	49·95	223
Par Station (Penellick)	W. E. Geach, Esq. ...	5	0 9	240 T	38·74	...
D Empacombe [Devonport]	J. Sandercock, Esq. ...	5	0 6	20 T	38·71	207
D Cremyll [„]	Mr. W. Wonnacott ...	5	20 0	25	37·63	210
D Antony Ho. [„]	Mrs. Pole Carew	5	1 0	100 T	43·85	212
D St. Germans (Trethill)	Capt. J. D. A. Roberts.	5	2 0	200 B	36·01	177
D West Looe (Morval)	Miss Florence Tremayne	5	1 0	138	51·70	190
D Lostwithiel (Lanwithan)	Miss Foster	10	1 0	80	50·71	184
D Newquay (Prospect House)	A. Hardwick, Esq., M.D.	5	1 0	130	40·26	207
D Menheniot (Coldrenick House) ...	E. Jago, Esq.	5	1 4	...	50·39	208
D St. Wenn Vicarage	Rev. A. S. Rashleigh ...	8	1 3	381 T	48·91	220
D†Liskeard (Dean Terrace)	S. W. Jenkin, Esq., C.E.	5	1 1	375 T	52·99	215
D „ (Trevillis)	L. C. Foster, Esq.	5	1 0	320 T	46·95	192
†Saltash (Pentillie Castle)	Mr. W. T. Johnson ...	5	2 4	150 B	55·78	192
D†Bodmin (Lanhydrock)	Rev. Prebendary Every	5	1 0	390	54·12	229
D „ (Treledan)	H. D. Foster, Esq. ...	5	1 0	290	55·16	224
Liskeard (St. Cleer Down)	S. W. Jenkin, Esq., C.E.	5	1 1	620 T	45·55	...
D St. Mabyn (Pencarrow)	Mr. A. C. Bartlett	5	1 0	...	46·22	223

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which 101 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
CORNWALL—(con.)						
Callington (Drakewalls)	Mr. C. A. Wadge	5	4 0	650 T	51·87	175
†Launceston (Altarnon)	Rev. A. H. Malan	5	1 0	620 B	65·74	244
D „ (Tamar Terrace) ...	Captain L. Ching, R.N.	5	0 10	446	46·90	200
Egloskerry (Tregeare)	E. G. B. Lethbridge, Esq.	5	1 0	450	50·63	...
North Tamerton (Ogbeare)	Mr. J. S. Bray	5	4 0	460 T	43·95	189
D Bude	J. Arthur, Esq.	5	1 0	16 B	37·60	172
SOMERSET.						
Cricket St. Thomas	Mr. S. Lyon	6	1 0	444	37·51	146
D Crewkerne (Bincombe House) ...	Miss Sparks	5	1 2	293 T	37·17	168
D Yeovil (West Coker)	Major Aldworth	5	1 0	260 T	35·27	200
„ (Barwick House)	His Hon Judge Philbrick	5	1 1	200	34·13	...
D „ (Gas Works)	E. Howell, Esq.	5	1 0	110 T	33·88	157
D Ilminster (Bay House)	J. C. Baker, Esq.	5	1 0	215 T	31·89	178
D „ (White Lackington) ...	Rev. Prebendary Gowing	5	1 0	136 T	33·25	186
D „ (Ilton Vicarage)	Rev. R. B. Poole	8	0 10	104 T	33·13	203
D Taunton (Blagdon Hill)	H. T. Coles, Esq.	8	1 6	588 T	39·85	127
„ (Leigh Hill)	„ „ „	8	1 6	525 T	38·19	127
D „ (Ashleigh)	W. A. Gunner, Esq.	5	1 0	78 B	29·60	183
D „ (Linden Grove) ...	H. Le B. Gunner, Esq.	5	1 3	...	31·59	189
D Wellington (The Avenue)	F. J. Burnett, Esq. ...	5	0 10	254 T	32·16	190
Temple Combe Rectory	Rev. J. C. Fox	5	0 6	215	37·78	177
D Taunton (Claremont)	E. Ball, Esq.	8	1 2	80 T	29·88	165
D Milverton (The Nook)	Miss F. E. Bere	5	1 0	265	36·29	208
D North Cadbury Rectory	Rev. H. A. Boys	8	1 3	256 T	32·41	182
D Taunton (The Mount, Halse) ...	Miss Smith	5	1 1	254	37·20	218
Cothelstone House	C. E. J. Esdaile, Esq. ...	5	1 0	430	36·63	184
D North Petherton (The Old Rectory) ..	E. C. Curtis, Esq.	8	0 6	122 T	32·93	178
Castle Cary (Pitcombe Vicarage) ..	Rev. D. E. Norton	5	1 2	310 T	36·91	...
D Somerton (Butleigh Court)	R. Neville Grenville Esq.	8	1 2	80	32·64	155
Bruton (King's School) ..	Rev. D. E. Norton	5	0 10	280	41·40	...
Winsford	Rev. Preb. Anderson	5	1 2	630	55·64	...
D Glastonbury (Street)	W. S. Clark, Esq.	8	1 0	100	31·44	160
„ (High Street)	J. Spire, Esq.	8	7 0	94 T	33·59	161
D „ (Ynyswytryn)	Mrs. Swayne	5	1 8	245 T	35·32	176
D Bridgwater (Enmore Park)	W. B. Broadmead, Esq.	8	1 9	268	35·06	137
„ (Nurseries)	H. Corder, Esq.	5	1 0	...	30·80	180
D „ (Ashford)	F. Parr, Esq., C.E. ...	5	...	...	32·44	169
„ (Fiddington)	E. R. Case, Esq.	8	5 0	120	30·36	...
D Exmoor (Simonsbath)	Rev. H. L. Pigot	5	1 0	108	77·24	226
D Holford (Woodlands House) ...	Miss I. L. Joseph	5	0 9	391 T	36·64	190
Stockland Bristol Manor House ..	Rev. H. A. Daniel	5	1 0	65	32·77	154
D Shepton Mallet (Charlton)	F. H. Berryman, Esq.	5	1 0	481 T	42·32	160
D „ „ (Sewage Farm) ..	C. Hale, Esq.	5	1 0	300 T	40·11	172
D Wells (The Deanery Gardens) ..	Mr. A. King	5	1 0	170 T	37·22	186
„ (The Cedars)	Mr. O. J. Fewtrell	5	1 6	190	37·08	186
D Cranmore (Cranmore Hall)	Sir R. H. Paget, Bt.	8	1 0	600 T	40·44	197
D Frome (Mells Rectory)	Mrs. Horner	5	1 0	344 T	38·51	194

Monkswood Reservoir [Bath] ...	C. Gilby, Esq., C.E. ...	5	1	0	365	7	33·61	213
Bristol Docks (Underfall Yard)..	W.W. Squire, Esq., C.E.	8	19	6	45	7	29·54	182
„ (Small Street)	Bristol Water Works...	12	33	10	52		33·25	162

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which 101 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
GLOUCESTER—(con).						
D Clifton (Royal York Crescent)...	Miss Bridge	5	8 2	226 T	34·32	207
D „ (Cecil Road)	Miss Hooper	5	1 5	230	35·00	193
D „ (Pembroke Road)	R. F. Sturge, Esq. ...	8	1 0	215	35·48	192
D „ College	D. Rintoul, Esq.	8	1 2	230	37·64	174
D Bristol (The Grove, Fishponds)...	H. H. Harding, Esq....	5	1 0	160 T	31·41	180
Westbury-on-Trym (Cote House)	late H. St. V. Ames, Esq.	8	1 3	243 T	36·17	170
Pucklechurch	Rev. S. G. Gillum.....	5	0 10	374 T	33·56	180
D Filton	F. W. Gayner, Esq. ...	5	2 0	200	32·09	187
D Chipping Sodbury (Frampton Cotl)	J. Marsh, Esq.	5	1 0	180 T	33·12	183
D „ „ (Stanshawes Ct)	R. N. Hooper, Esq. ...	5	1 3	280 T	34·62	184
D Bristol (Over Court Park)	R. C. C. Lippincott, Esq.	5	0 9	147 T	37·23	204
D „ „ „ Garden).....	„ „ „	8	1 0	137 T	34·66	208
Badminton	Mr. W. Nash	5	1 0	407	37·81	186
D Wickwar Rectory	Rev. R. J. Lyon ...	5	1 0	260 T	33·97	179
Alderley	Gen. Hale	5	1 0	310 T	36·38	...
Tortworth Court	Mr. T. Edington	8	1 0	264	34·79	195
Dursley (Farnley)	R. W. Pinney, Esq. ...	5	0 10	251 T	36·00	168
D Fairford (Kempsford)	A. T. Iles, Esq.	5	1 0	...	23·04	183
„ (The Close)	W. Cobbett Arkell, Esq.	...	1 9	...	26·53	...
D „ (Horcott).....	R. A. Iles, Esq.	5	2 6	...	24·50	133
Berkeley (Castle Gardens)	Mr. R. Shore	5	1 6	62 T	33·32	157
D Lechlade	T. Arkell, Esq.	5	0 9	253	23·43	143
„ (Southrop) .....	„ „ „ .....	...	1 0	...	25·55	...
D Amberley (Highlands)	Mrs. Blackwell	8	0 10	550 T	42·97	167
D Woodchester (Culver House) ...	Mrs. Davidson	5	1 0	372 T	37·26	178
Chalford (Hyde House).....	Piers F. Legh, Esq. ...	5	1 6	545 T	36·97	195
D Lydney (Clanna)	Col. Marling	5	1 0	260 T	45·49	181
D „ (Priors Mesne)	H. Cook, Esq., M.D. ...	5	1 6	500 T	45·52	196
D Cirencester (Roy. Agricultl. Coll.)	Prof. Locke	5	1 0	443 T	31·03	181
D „ (Dollarward House)...	C. P. Hooker, Esq. ...	5	1 6	366	34·87	199
D „ (Further Barton) ...	Miss J. E. A. Brown...	5	1 0	422 T	33·81	186
D Stroud (Stanley Park) ...	Capt W. J. Paley Marling	8	1 0	365 T	36·30	164
D „ (The Acre)	P. Witchell, Esq.	5	1 0	300	36·48	174
D „ (Upfield).....	Miss Stanton	5	1 0	226 T	35·18	201
Stonehouse (Wycliffe College)...	F. A. Sibly, Esq.	8	1 0	120	33·82	168
D Fairford (Hatherop Rectory) ...	Rev. R. P. Davies	8	1 3	411 T	29·90	199
D Whitminster	F. A. Jones, Esq., C.E.	5	1 0	32 T	34·22	200
Haresfield Court	Mr. S. Pearce	5	1 0	100	32·70	182
Coleford (The Coombs)	R. Tyrer, Esq.	5	1 0	660	47·66	203
D Westbury-on-Severn (Chaxhill).	H. S. Grant, Esq.	5	1 0	120 T	30·63	140
D Great Barrington	H. J. Barrett, Esq. ...	5	1 6	430 T	29·85	135
Northleach (Sherborne House) ...	Mr. Scott	5	1 0	405	32·86	160
Gloucester (Quedgeley House)...	W. G. Robinson, Esq..	5	1 0	65 T	33·78	190
„ (Cotswold Sanatorium)	C. Braine Hartnell, Esq.	5	1 0	790 T	39·30	179
D „ (Birdlip Hill)	A. S. Helps, Esq.	5	1 0	800 T	36·43	185
D „ „ „ „ ..new g.	„ „ „ „	5	1 0	800 T	37·50	185
D „ (Witcombe Res.).....	R. Read, Esq., C.E. ...	8	3 0	297 T	34·40	168
Mitcheldean (Blaisdon).....	P. Stubs, Esq.	5	1 0	117 T	36·72	212

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft. in.	feet.	inches.	
GLOUCESTER—(con.)						
Mitcheldean (Blaisdon).....	M P. Stubs, Esq.	5	1 0	117 π	36·50	...
d Gloucester (Hempsted)	F. A. Jones, Esq., C.E.	5	1 6	72 π	31·39	175
d " (Llanthony Lock) ...	E.D. Marten, Esq., C.E.	5	1 2	39 π	29·45	172
d " (Denmark Road).....	A. J. Stephens, Esq....	5	1 0	53	26·94	...
d " (Lower Barton Street)	W. Piffe Brown, Esq....	5	1 0	65 π	29·93	178
d " (Churcham)	L. H. Hall, Esq.	5	2 1	90	32·33	167
d " (Wotton Asylum).....	R. B. Smyth, Esq., M.D.	8	0 9	88 π	28·93	165
d Cheltenham (Dowdeswell).....	J. Hall, Esq., C.E.....	5	1 0	357	31·92	177
d " (").....	A. E. Moss, Esq.	5	0 11	650	33·74	192
d Bourton-on-the-Water.....	E. W. Kendall, Esq....	5	1 6	434 \uparrow	32·96	171
d " " " (Chardwar)	G. F. Moore, Esq.	5	2 6	230	33·87	170
d Cheltenham (Northfield)	J. Hall, Esq., C.E.....	8	5 0	637 π	26·93	177
d " (Hewletts Res.) ...	" " "	8	1 6	419 π	30·08	177
d " (Sandford)	" " "	5	2 8	210	27·43	163
d " (Heath Lodge) ...	Rev. M. A. Smelt	8	1 0	206	30·27	199
d " (Southam Villa) ...	R. Tyrer, Esq.	5	1 0	184 π	28·44	203
d " (").....	" " "	5	1 0	184 π	26·63	...
d Stow-on-the-Wold (Oddington).	Rev. H. B. Heberden..	5	0 9	400	30·13	183
d Winchcombe	J. Halliwell, Esq.	5	1 2	295 \uparrow	32·25	187
d Moreton-in-Marsh (Longborough)	W. Arkell, Esq.....	5	1 0	575	35·71	169
d† Tewkesbury (Upper Lode)	E.D. Marten, Esq., C.E.	5	1 0	41 π	29·43	136
d "	J. Hall, Esq., C.E.....	5	0 10	47	25·13	154
d " (Beckford)	F. Slade, Esq., C.E. ...	8	1 0	120 π	28·67	183
d Chipping Campden (Hidcote) ...	Capt. W. Wright	5	1 0	525	29·41	136
HEREFORD.						
d Ross (Croome Hall)	W. E. Hancock, Esq....	8	4 0	288 π	35·61	194
d† " (The Graig)	H. Southall, Esq.	5	1 0	213 π	33·78	195
Upton Bishop (The Baches).....	W. Hogarth, Esq.....	5	1 0	300	30·61	136
Much Dewchurch (Bryngwyn)...	Sir J. Rankin, Bart. M.P.	5	0 9	416 \uparrow	35·20	185
Much Marcle (Claremont).....	Mrs. Freeman.....	5	1 0	227 \uparrow	32·28	184
d " " (Caerswall)	T. Charles, Esq.....	5	1 0	423 π	31·14	173
d Fownhope (Morney Cross)	O. E. Cresswell, Esq....	5	1 5	...	29·32	163
d Woolhope (Wessington Court)...	Miss L. Grafton.....	5	1 0	440	30·71	175
d† Ledbury (Orchardleigh)	M. A. Wood, Esq.....	5	3 0	180	30·53	182
d " (Underdown)	S. H. Bickham, Esq....	5	1 0	307 π	32·42	182
d " (").....	" " "	5	1 0	306 π	32·47	...
d " (Putley Court)	J. Riley, Esq.....	5	1 0	290	32·78	181
d Hereford (Breinton Court)	H. A. Wadworth, Esq.	5	1 0	238 \uparrow	29·63	166
d " (St. Owen Street)	Mrs. Jay Jones	5	6 0	190 \uparrow	29·57	...
d " (St. Michael's Priory)...	Rev. B. Harrington ...	8	1 0	291	32·83	197
d Lugwardine (The Laurels)	Mr. C. J. Johnstone ...	5	1 0	270 \uparrow	29·08	169
Yarkhill Vicarage.....	Rev. A. G. Jones	8	1 0	190	29·28	170
d Canon Frome Vicarage	Rev. M. Hopton.....	8	1 3	252 \uparrow	30·15	186
d† Malvern Hills (Upper Wych) ...	Baldwin Latham Esq. CE	5	1 0	1006 π	32·26	146
d Hereford (Burghill Court)	Miss E. D. Woodhouse	5	0 10	293 \uparrow	31·07	196
d Brinsop Vicarage	Rev. A. Relton	5	1 0	285 \uparrow	28·05	155
Hope-u-Dinmore (Hampton Ct.)	J. H. Arkwright, Esq..	8	1 2	212 π	32·89	193

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

STATIONS.	AUTHORITIES.	Diameter	Rain Gauge.		Depth of Rain. 1900	Days on which 101 or more fell	
			Height Above Ground	Height Above Sea Level			
HEREFORD—(con.)							
D Weobley (Dilwyn).....	T. L. Hall, Esq., M.D.	5	0	8	290 T	32·35	183
D Kington (Lynhales)	S. Robinson, Esq.	8	1	0	566	35·00	205
D „ (Gravel Hill)	Col. G. F. Pearson.....	5	0	8	540 T	39·36	229
D Pembridge (Marston)	H. Langston, Esq.....	5	1	5	347 A	33·41	176
Bromyard (Buckenhill).....	R. Phipps, Esq.....	8	1	9	...	30·08	151
D Leominster (Farm)	Miss Southall	5	1	6	268	30·45	192
SHROPSHIRE.							
D Ludlow (Ashford)	Rev. J. Selwood Tanner	5	1	2	265 T	30·08	177
D „ („ House)	W. Downes Hall, Esq.	5	0	5	315 T	34·89	191
D Cleobury Mortimer (The College)	J. Davis, Esq.	5	3	8	440 T	29·98	173
D Bromfield (Priors Halton).....	Miss Beddoes	5	1	0	300	36·11	190
D „ (Oakley Park)	Mr. T. Reason	5	1	0	300	35·05	217
D „ Vicarage	Rev. W. Selwyn	5	1	0	300 T	34·85	177
D Clunbury Vicarage	Rev. W. Clark Maxwell	5	1	0	497	35·20	153
Craven Arms (Stokesay Vicarage)	Miss La Touche	5	1	0	371 A	32·40	172
Bishop's Castle (Totterton)	W. H. Whitaker, Esq.	5	0	7	700	34·96	...
„ „ (Castle Street) ...	E. Griffiths, Esq.	5	2	0	720 B	33·80	204
„ „ (Cabin)	M „ „ „	5	0	9	810 A	33·13	...
Bridgnorth (Coton Hall)	E. M. Wakeman, Esq.	5	1	0	460	28·89	...
„ (Quatford)	Rev. W. J. Pinckney...	5	1	0	170 T	27·13	188
Church Stretton (Longhills)	Rev. Preb. Elliot	5	1	0	680	38·85	202
D „ „	Rev. R. P. Dansey . . .	5	1	0	645 A	37·92	202
D „ „ (PoleCott., Longmynd) . . .	„ „ „	5	1	0	1580 T	53·95	232
Bridgnorth (Hookfield House) ...	Rev. Preb. F. Bird . . .	5	0	11	...	28·32	189
D „ (Cantreyn Bank) ...	Rev. H. M. Stallybrass	6	3	9	320 A	33·49	160
D „ (Aldenham Park) ...	H. J. Wyley, Esq. ...	5	3	9	430 T	30·11	187
Church Stretton (Preen Manor) ...	C. B. Sparrow, Esq. ...	5	1	0	700 T	29·85	185
D „ „ (Woolstaston) ...	Mrs. E. D. Carr	5	1	0	800 A	33·36	208
D Middleton Chirbury	Rev. W. Brewster.....	5	1	2	702 A	31·25	222
D Much Wenlock (Willey Park) ...	Rt. Hon. Lord Forester	5	1	0	502 A	28·31	180
D Pontesbury (Somerville)	Mr. W. R. Croft	5	1	6	355 T	28·26	158
Minsterley (Hampton Hall)	J. Whitaker, Esq.....	...	1	0	630 T	31·10	...
D „ (Wallop)	Mrs. Severne	8	1	3	700 T	39·93	205
D Shifnal (Hatton Grange)	Col. Kenyon-Slaney, MP	5	4	2	261	27·46	202
„ (Neachley).....	Hon. F. Bridgeman . . .	5	1	6	280 T	29·54	195
D „ (Haughton Hall)	Mr. A. S. Kemp	5	3	0	355	27·60	175
D Shrewsbury (The Abbey House)	Miss F. Rouse Boughton	8	1	3	171 A	23·48	153
„	W. Chapple Eddowes Esq	8	1	3	174 A	27·30	111
„ (Highfield)	T. M. Howells, Esq. ...	8	1	6	250	27·30	...
„ (Roden).....	The Royal Meteor. Soc. . . .	...	...	...	...	26·67	158
Newport (Aston Hall)	Col. R. Leeke.....	5	0	9	250	28·68	..
D „ (Edgmond).....	J. Bodenham, Esq. ...	8	1	0	261 T	29·68	197
D Wem (The Clive Vic.)	Rev. J. Cooper Wood...	5	1	0	299 A	28·67	240
„ (The Rectory)	Hon. Rev. G. H. F. Vane	5	1	0	270 T	29·46	231
D Cheswardine (Knighton Res.) ...	G. R. Jebb, Esq., C.E.	8	0	3	351 A	34·02	186
D Oswestry (The Mount Reservoirs)	G. W. Lacey, Esq.....	5	1	0	698 A	39·51	188
Market Drayton (Buntingsdale) . .	Mrs. Tayleur	8	3	0	276 A	31·38	..

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
STAFFORD.						
Dennis [Stourbridge]	E. B. Marten, Esq., C.E.	8	6 6	270 B	30·25	192
D Netherton (Lodge Farm Res.) ...	G. R. Jebb, Esq., C.E.	5	1 0	445 A	25·16	171
D Dudley (Shavers End)	H. A. Hill, Esq., C.E.	5	1 0	744 T	25·77	173
D West Bromwich	A. D. Greateorex Esq., CE	8	4 6	547 T	29·64	157
D Wombourne (The Bratch)	Baldwin Latham Esq CE	5	0 9	271	30·19	232
Wednesbury (Ocker Hill)	E. B. Marten, Esq., C.E.	...	...	...	25·93	159
Walsall		8	4 0	463 A	32·47	198
D „ Sewage Farm	R. H. Middleton, Esq. CE	8	0 11	376 A	28·27	163
D „ (Wednesbury Sewage Wks.)	T. Wicks, Esq.	5	2 8	381 A	27·61	174
Wolverhampton (Graiseley)	R. E. W. Berrington, Esq	5	0 9	506 A	27·22	174
„ (Town Hall) ...	J. W. Bradley, Esq. C.E.	5	15 6	481 A	26·72	164
„ (West Park) ...	„ „ „ „	5	1 0	432 A	27·19	180
D „ (Tettenhall) ...	R. T. Smith, Esq., C.E.	5	1 0	475 A	27·94	217
D „ (Wrottesley) ...	Mr. E. Simpson	8	1 0	500	26·91	166
D Tamworth (Bonehill House)	Col. Chichester	5	1 0	289 T	29·43	188
D Bloxwich (Sneyd Res.)	G. R. Jebb, Esq., C.E.	5	1 0	507 A	27·40	152
D Hammerwich (Cannock Chase Res)	„ „ „ „	5	1 0	475 A	29·15	193
D Weston Park [Shifnal]	Rt. Hon. Earl of Bradford	5	1 6	400 T	29·15	201
D Brewood (Belvide Res.)	G. R. Jebb, Esq., C.E.	8	1 0	367 A	27·68	145
Lichfield (Maple Hayes)	A. O. Worthington, Esq.	5	1 0	380	29·33	...
D Penkridge (Rodbaston)	H. Ward, Esq.	5	1 0	324 A	32·16	190
D Hednesford (Scout House)	H. A. Hill, Esq., C.E.	5	1 0	750 A	26·52	191
Shugborough	Rt. Hon Earl of Lichfield	5	1 0	260	33·37	208
D Burton (Rangemore)	Mr. Bennett	5	5 6	424 T	32·22	203
„ (Ashby Road)	M. L. Nicholas, Esq.	5	1 6	270	33·14	190
D „ (Shobnall)	Messrs. Bass & Co. ...	5	4 6	156 T	31·05	170
D „ (Hoar Cross)	F. W. Lycett, Esq.	8	4 0	400 T	35·18	175
Stafford (West Bank, Doxey) M	Mr. Leslie Wilson	5	0 6	280 T	30·53	...
D Salt Vicarage	Rev. S. W. Jones	8	0 8	273	32·44	192
D Uttoxeter (Brook House)	Mr. J. J. Gibbons	5	1 0	283 A	37·69	203
D Market Drayton (Old Springs) ...	F. E. Harding, Esq.	5	0 8	423 A	33·90	213
D Maer Hall Gardens	Mr. J. Harris	5	1 6	...	37·42	205
D† Chedale (The Heath House)	J. C. Philips, Esq.	5	1 0	647 A	37·54	191
D Longton (The Meir)	G. D. Harrison, Esq. C.E.	5	1 0	618 A	33·66	184
D Newcastle (Madeley Vic.)	Mr. W. Pye	5	1 0	347 A	34·70	150
D Stoke (Hartshill)	J. Knight, Esq.	5	1 0	485 A	34·22	205
„ (Stanley Reservoir)	E. B. Smith, Esq., C.E.	5	3 1	550 T	32·50	170
Alstonfield Vicarage	Rev. W. H. Purchas ...	5	1 0	910 T	43·15	170
D Leek (Wall Grange)	G. D. Harrison, Esq. C.E.	5	1 0	458 A	39·45	194
WORCESTER.						
D Blockley (Upton Wold)	E. W. Arkell, Esq. ...	5	0 10	...	35·62	183
Northwick Park	Lady Northwick	8	1 6	410 A	35·89	...
Upton-on-Severn (Willow Bank)	J. S. Cowley, Esq.	5	1 3	...	32·29	167
D „ „ (The Eades) ...	Major E. Tennant	5	0 9	100 T	31·51	178
D Evesham (Lansdowne)	R. Burlingham, Esq.	5	5 0	108 T	25·87	126

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
WORCESTER—(con.)						
Gt. Malvern (British Camp Res. S.)	H. P. Maybury, Esq. C.E.	5	1 7	677	31·75	159
" " (" " " N.)	" " "	11	0 11	677	31·73	154
† " " (Church Street)....	" " "	5	4 0	353	29·79	133
† " " (Belle Vue House)...	A. Mander, Esq.	5	4 0	520	33·74	182
† " " (Madresfield Rect.)..	Rev. G. S. Munn	5	1 4	124	32·30	164
† " " (" Court)...	Mr. W. Crump	8	2 6	135	31·44	152
† Leigh Lodge	Insp.-Gen. M. W. Cowan	5	1 3	110	30·23	179
† Worcester (Diglis Lock)	E. D. Marten, Esq., C.E.	5	1 0	49	28·81	195
" " (Belmont Road)	G. B. Wetherall, Esq..	5	1 3	180	26·44	174
" " (Water Works)	T. Caink, Esq., C.E. ...	5	0 8	52	28·06	175
† " " (Bevere Lock)	E. D. Marten, Esq., C.E.	5	1 1	52	27·59	188
" " (Hawford Lodge)	F. Ames, Esq.	5	1 1	70	31·23	165
† Droitwich (Holt Lock)	E. D. Marten, Esq., C.E.	5	1 1	55	30·06	163
" Tenbury (Rochford)	Rev. J. Tomson	5	1 0	317	32·32	165
" Redditch (Prospect Hill)	H. Page, Esq., M.D. ...	5	1 0	425	29·12	199
" Bromsgrove (Tardebigge Res.)...	F. A. Jones, Esq. C.E.	5	3 0	433	30·43	202
" " (Stoke Reformatory)	Mr. J. Salter	5	5 0	225	27·70	165
† Stourport (Lincombe Lock).....	E. D. Marten, Esq., C.E.	5	1 0	62	30·09	177
" Alvechurch (The Uplands)	J. Grubb, Esq.	5	1 0	600	32·54	187
" Bromsgrove (Lower Bittal Res.)...	F. A. Jones, Esq. C.E.	5	3 0	430	28·55	130
" Bewdley (Winterdyne Gardens)	Mr. W. Wrather	8	2 0	...	29·06	157
" Kidderminster (Prospect Hill)...	Mr. J. T. Cowderoy ...	...	1 0	161	25·49	187
" Stourbridge (Pedmore)	E. B. Marten, Esq., C.E.	8	0 11	350	31·12	192
" " (Longlands) .....	" " "	...	...	...	28·61	201
" Northfield (West Heath House).	A. J. Brown, Esq.	5	1 0	...	32·32	...
" " (Longbridge)	Mrs. Impey	5	0 9	560	35·60	202
" Lifford Sewage Works	J. H. Webb, Esq., C.E.	5	1 0	427	32·78	157
" Kings Heath (Cambridge Road)	" " "	5	10 0	526	29·46	173
" " (Brandwood House)	G. F. Lyndon, Esq. ...	5	1 0	550	32·06	200
" Selly Oak Cemetery	Mr. W. Garden	5	1 4	540	32·19	168
" Moseley (Woodstock Road)	C. J. Fowler, Esq.	5	2 4	440	38·19	175
" Stechford (Ely Cottage)	H. H. Newark, Esq. ...	5	1 3	360	31·50	193
" Dudley (Trindle House)	E. B. Marten, Esq., C.E.	8	1 0	575	31·25	191
WARWICK.						
" Long Compton (Weston Park)...	H. A. Warriner, Esq. ...	8	3 10	510	30·66	154
† Shipston (Compton Wynyates)...	J. Sargent, Esq.	5	2 6	480	32·00	206
" " (Honington)	Rev. E. Boddington ...	5	0 10	215	27·72	162
" Farnborough	Miss Prater	5	1 0	520	31·82	210
† Stratford-on-Avon (Guild Street)	Rev. F. Smith	12	4 0	135	30·26	171
" " " (Shottery Hall)	R. Marten, Esq.	5	0 8	140	27·04	176
† Alcester (Ragley Gardens)	Mr. A. Christie	5	1 0	150	28·05	171
" Snitterfield	R. Dixon, Esq.	5	1 0	304	25·84	160
† Warwick (Barford Rectory).....	Rev. C. Mills.	8	0 11	167	26·16	182
" Leamington (The Parade).....	J. Barnitt, Esq.	5	4 8	195	25·99	173
" Henley-in-Arden (Barrells Park)	T. H. G. Newton, Esq.	5	1 0	318	28·74	158
" Warwick (Hatton Vicarage) ...	Rev. H. Trethewy.....	5	1 0	384	27·50	178
" Milverton (Latmos)	Rev. E. Healy	5	1 2	191	28·25	...

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which "01 or more fell.
		Diameter	Height Above Ground		Height Above Sea Level	
			ft.	in.	feet.	inches.
WARWICK—(con.)						
o Leamington (Cubbington).....	Mrs. Robins	6	1	0	290 T	27·77 157
o Kenilworth (The Spring)	W. Evans, Esq.....	5	1	0	312 T	30·03 191
Rugby (Temple Observatory) ...	SJBWynneWillsonEsq	5	1	3	383 T	30·68 184
o Coventry (City Hospital)	E. H. Snell, Esq., M.D.	8	1	0	266 T	28·88 181
o " (Priory Row)	J. Gulson, Esq.	8	1	3	279 T	30·85 187
" (Stoke)	" " " " " " " " " "	8	1	3	241	31·40 187
o " (Kingswood)	R. B. Caldicott, Esq....	8	1	0	340 T	37·38 151
o " (Keresley Grange)	Miss Rotherham	5	0	10	413	32·40 232
o Birmingham (Sheldon Rectory)..	Mrs. Jones Bateman ...	8	1	0	323	34·84 180
o " (Edgbaston)	A. Cresswell, Esq.....	8	1	0	535	29·12 166
o† " (Botanic Gardens)..	Mr. Latham	5	5	2	505 T	28·83 185
o " (The Crescent)	J. J. Gilbert, Esq.....	5	21	0	495 T	28·15 153
" (" ")	M " " " " " " " " " "	5	7	0	480 T	30·86 153
o Bedworth Cemetery	Mr. D. Bosworth	5	1	0	385 T	30·08 142
o Witton Reservoir	E. Anty Lees, Esq. ...	5	2	6	347 T	29·26 193
o Whitacre (Birmingham W.W.)..	" " " " " " " " " "	5	1	3	269 T	33·02 216
o Sutton Coldfield (The Park)	Mr. H. Harland.....	5	1	0	371	29·14 192
o Atherstone	BaldwinLathamEsq CE	5	1	0	286 T	30·44 183

DIVISION VII.—NORTH MIDLAND COUNTIES.

LEICESTER.

Gumley Rectory	Rev. Canon Overton ...	8	4	6	530 T	31·75 166
Fleckney	J. B. Putt, Esq.....	5	1	0	411 T	34·51 ...
o† Kibworth Beauchamp	E. V. Phillips, Esq. ...	5	2	6	355 T	33·93 164
o Kibworth Harcourt	C.H.Marriott, Esq.M.D.	5	0	11	350	32·39 187
Hallaton Hall	S. N. Bankart, Esq. ...	8	1	3	366	27·72 ...
Horninghold House	float g. Mr. G. Payne.....	6	2	9	350	26·60 ...
o Leicester (Town Hall Square) ...	E.G.Mawbey, Esq., C.E.	5	0	6	211 T	27·13 164
" " (" ")	" " " " " " " " " "	7	2	0	213 T	26·88 164
" " (Humberstone Asylum)	J.E.M.Finch, Esq., M.D	8	1	0	244 T	26·51 198
o† Thornton Reservoir	F. Griffith, Esq., C.E..	8	1	2	371 T	30·32 161
o Thurcaston Rectory	Rev. T. A. Preston ..	5	1	0	253 T	26·32 163
o " (Cropston)	F. Griffith, Esq., C.E..	8	1	0	246 T	30·87 185
o Syston	S. K. Daniels, Esq. ...	5	1	6	180 T	29·66 171
Swithland (The Brand)	F. Griffith, Esq., C.E..	8	1	0	172 T	30·67 178
o Ratcliffe-on-Wreake College ...	Rev. J. Cremonini	5	1	0	288 T	27·36 154
o Barrow-upon-Soar	Mrs. C. Stuart Thomson	5	1	8	...	30·05 158
o Charnwood Forest (Blackbrook Res)	A.H.Walker, Esq., C.E.	8	1	0	310	30·60 166
Ashby-de-la-Zouch (Cole Orton)	late Rv. Canon Beaumont	5	1	0	480	30·65
Whitwick (Mt. St. Bernard's Abbey)	Rev. C. Hipwood	5	1	3	...	34·31 178
o Loughborough (Nan Pantan Res.)	A.H.Walker, Esq., C.E.	8	1	0	269 T	31·25 194
" (The Widenings)	Adrian Young, Esq. ...	5	0	7	150 T	30·13 190
" (Forest Road)	W. Berridge, Esq.....	5	0	9	147 T	28·83 184
" " (" ")	" " " " " " " " " "	8	1	0	147 T	28·68 184

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea level		
			ft. in.	feet.	inches.	
LEICESTER—(con.)						
Burton-on-the-Wolds	Lord Percy St. Maur...	6	0 9	...	31·44	177
Prestwold Hall	Hussey Packe, Esq. ...	8	0 9	209 ∇	30·30	186
D Waltham-le-Wolds	Mr. Higgins	5	1 0	568	29·01	182
†Belvoir Castle	old g. W. H. Divers, Esq. ...	8	1 0	260 ∇	23·62	...
D " "	new g. " " "	8	1 0	260 ∇	27·11	210
RUTLAND.						
Uppingham (Ridlington)	N. W. Wortley, Esq....	5	4 7	527	29·83	193
Ketton Vicarage	The Meteor. Council...	5	0 10	110	26·78	193
Tinwell, South View [Stamford]	H. Edwards, Esq....	5	1 1	...	25·17	176
Burley-on-the-Hill	Mr. W. Temple	8	1 0	506	29·56	155
D Tolethorpe Hall [Stamford]	C. O. Eaton, Esq.	8	0 8	161 ∇	23·84	167
D Market Overton	Miss Grace Wingfield ..	8	0 11	475 ∇	30·05	190
D Stocken Hall	Capt. P. F. Tillard, R.N.	5	1 0	365 ∇	29·78	173
LINCOLN.						
D Market Deeping (Wilsthorpe) ...	J. C. Gill, Esq., C.E....	8	3 10	55 ∇	22·04	167
Spalding (Pode Hole)	Mr. W. Grigg	12	1 0	20 ∇	28·50	...
D Grantham (Stainby)	Rev. W. A. H. Thorold	5	0 9	496	26·40	110
" (Denton Manor)	Sir C. G. E. Welby, Bt. MP	5	4 0	275 ∇	29·06	217
D " (Little Ponton Rect.)	Rev. P. R. Worsley ...	5	1 0	250 ∇	29·94	201
" (Saltersford)	H. Preston, Esq.	5	0 6	188 ∇	26·32	179
D " (Guildhall)	F. J. Morris, Esq.	5	13 6	202 ∇	26·24	178
D " (High Street)	Messrs. R. & W. Bird..	5	1 0	...	26·91	152
Horbling (The Hall)	Mr. C. E. Smith	8	1 3	...	24·89	144
D Boston (Black Sluice, Skirbeck).	H. Clarke, Esq., C.E....	8	1 3	19 ∇	27·50	164
D " (Grand Sluice)	late C. G. W. Phillips, CE	8	8 0	18	27·99	178
D "	W. H. Wheeler, Esq. C.E.	5	6 6	25 ∇	26·62	145
D Sleaford (Rauceby Hall)	Maj.-Gen. M Willson, CB	5	1 0	125 ∇	29·52	178
D Leake (Lade Bank Engines)	late C. G. W. Phillips, CE	8	1 0	10 ∇	25·91	137
D Stubton [Newark]	G. Nevile, Esq.	5	4 6	94 ∇	27·76	194
D Fulbeck	Rev. V. F. Willson ...	5	0 8	180 ∇	26·96	198
Leadenham Rectory	Rev. V. E. Skrine	5	0 10	150	27·31	141
Sleaford (Bloxholm)	Mr. W. Lumsden	5	1 6	20	24·72	127
Temple Bruer	Miss A. S. Morley	5	1 0	300?	28·02	162
Navenby Rectory	Rev. G. T. Harvey ...	...	...	...	27·18	...
D Carrington Grange	Mr. T. J. Ward	5	6 0	15 ∇	27·37	164
D Carlton-le-Moorland	J. Brocklebank, Esq....	5	1 2	49	25·02	162
Kirkstead	Mr. R. H. Brett	5	1 3	...	26·65	...
" (Woodhall Spa)	C. J. Williams, Esq., M.D	5	1 0	37 ∇	26·10	150
Horncastle (Mareham-le-Fen) ...	The Meteor. Council ...	5	1 5	35	29·70	...
D " (Revesby*)	J. Shaw, Esq.	5	2 0	135 ∇	28·82	152
D Spilsby (Hagnaby Priory)	Miss Pocklington	8	1 8	47 ∇	31·46	161
D "	Dr. J. W. Walker	5	1 0	160 ∇	32·07	198
D " (Boston Road)	Mr. J. J. Rainey	5	1 0	130 ∇	29·63	190
D " (Hagworthingham)	Mr. R. Wright	5	1 1	252 ∇	33·03	184
D " (Dalby Grange)	J. H. Wright, Esq. ...	5	1 6	250	31·51	200

* Formerly called Miningsby.

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height above Ground.	Height above Sea Level	1900	
			ft. in.	feet	inches.	
LINCOLN—(con.)						
Horncastle (Bucknall)	W. Carter, Esq.	5	1 6	50	21·74	133
Lincoln (Branston)	A.S. Leslie Melville, Esq.	5	1 3	122 ∇	27·86	165
† „ (Boultham)	Mr. F. Terrill	5	1 0	19 ∇	30·56	175
† „ (St. Botolphs)	A. M. Swift, Esq.	5	1 2	25 ∇	27·09	160
„ (St. Catherine's)	J. H. Teague, Esq.	5	5 6	33 ∇	30·42	...
„ (Doddington)	Rev. R. E. Cole	5	1 2	92 ∇	27·88	163
„ (Station)	Gt. Central R. Co.* ...	9	3 6	26	27·86	155
„ (The Close)	C. J. Bromhead, Esq. ...	8	1 0	185	25·65	195
„ (D'Isney Place)	A. H. Leslie Melville Esq.	4	1 0	215 ∇	26·13	178
„ (Brayford Wharf)	Mr. J. W. Horton	5	5 8	28 ∇	25·86	179
„ (Skellingthorpe Hall)	A. H. B. Coupland, Esq.	5	1 0	...	25·73	148
Horncastle (Hemingby)	Rev. E. S. Bengough ..	5	1 0	158	29·46	179
Alford (The Burial Ground)	Mr. E. Hodgson	5	1 0	29 ∇	26·95	166
Farforth (Maidenwell House)	Miss H. E. Browne ...	5	1 0	380 ∇	29·94	191
Scampton House	Mrs. G. E. Sandars ...	5	1 11	...	25·93	...
Aisthorpe Hall	J. Billiat, Esq.	5	1 0	77	27·72	179
Gate Burton	Gt. Central R. Co.	9	3 6	96	29·46	188
† Louth (Gospelgate)	T. W. Wallis, Esq.	5	6 0	111 ∇	30·29	184
† „ (Westgate)	Dr. F. Fawcett	5	0 9	120 ∇	30·33	177
Market Rasen	Mr. W. B. Jevons	5	0 8	84	27·19	151
„ „	Gt. Central R. Co.	9	3 6	100	24·23	166
„ „ (Tealby)	The Meteor. Council ...	5	4 0	251	28·36	165
Yarborough (The Rectory)	Rev. S. Bateman	5	0 9	42 ∇	22·84	176
Gainsborough	Gt. Central R. Co.	9	...	76	22·79	166
Stockwith	„ „ „	9	3 6	21	24·29	187
North Thoresby Rectory	Rev. H. Garrett	5	1 0	46 ∇	26·38	196
Brigg	Gt. Central R. Co.	9	3 6	16	25·25	171
„	A. Atkinson, Esq., C.E.	8	1 2	11 ∇	28·15	167
Caistor (Cabourne)	Rev. R. Thomas	5	...	...	27·12	...
Grimsby (Waltham)	Rev. W. Tuckwell	5	1 0	50	25·69	182
„	Gt. Central R. Co.	9	15 0	42	19·34	156
Barnetby	„ „ „	9	3 6	51	25·69	151
N. Level Engine [Thorne Donc'st'r]	Mr. Turner	5	2 3	...	23·25	172
Crowle (Keadby)	Gt. Central R. Co.	9	...	17	24·76	168
Burton on Stather Vicarage	Rev. F. A. Jarvis	5	0 6	212 ∇	27·83	183
Horkstow	E. J. Turton, Esq.	5	0 10	75	28·72	175
Ferriby Sluice	A. Atkinson, Esq., C.E.	5	1 0	18 ∇	28·34	164
New Holland	Gt. Central R. Co.	9	3 6	18	22·75	162
NOTTS.						
Kingston Hall [Loughborough]	Mr. W. English	5	0 8	...	31·93	182
Plumtree (Normanton-on-Wolds)	T. A. Hill Esq.	8	1 0	170 ∇	30·58	194
Cropwell Bishop (Cropwell Grove)	H. Smith, jun., Esq.	5	1 1	160 ∇	27·23	...
Bramcote	H. H. Enfield, Esq.	5	3 6	292 ∇	30·29	211
Bingham (Whatton Manor)	M. H. Hall, Esq.	5	3 0	104 ∇	27·78	187
Nottingham (Beeston Fields)	G. Fellows, Esq.	5	0 9	206 ∇	29·86	200
„ (The Castle)	A. Brown, Esq., C.E. ...	8	1 2	192 ∇	28·53	183

* Kept for the Canal Department of the Great Central Railway Company.

Returns supplied by G. Taylor, Esq.

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which 61 or more fell
		Diameter	Height Above Ground.	Height Above Sea level		
			ft. in.	feet.	inches.	
NOTTS—(con.)						
Nottingham (The Castle)	A. Brown, Esq., C.E....	8	76 0	268 π	23·99	173
n „ (Carisbrook Ho., The Park)	W. Bradshaw, Esq. ...	5	2 0	247	31·11	192
„ (Ropewalk „)	A. Brown, Esq., C.E....	..	1 3	230	28·25	175
Radcliffe-on-Trent	T. Yates, Esq.	5	1 0	...	28·06	142
„ „ „ (Chestnut Ho.)	Mr. J. Green	8	2 0	...	28·53	..
n Nttnghm (Stoke Bardolph Sew Fm)	Mr. A. A. Avis	8	10 0	83	24·31	156
n „ (Strelley)	T. L. K. Edge, Esq. ...	8	1 0	396 π	30·49	192
n „ („ Hall)	„ „ „	5	1 0	379 π	30·10	180
„ („ „)	„ „ „	5	1 0	379 π	30·93	...
n „ (Mapperley Hill)	E. Powell, Esq.	8	0 10	400 Γ	30·67	166
n „ (Bassford)	S. Moore, Esq.	8	0 10	169 π	28·67	173
n „ (Burton Joyce W.W.) ..	„ „ „	8	0 9	64 π	28·52	204
Bulwell (Springfield)	G. W. Walker, Esq....	5	0 9	166 π	31·49	...
n „ (Bestwood)	S. Moore, Esq.	8	1 5	317 π	28·90	153
n Eastwood Colliery	Mr. E. Lindley	5	1 0	245 Γ	33·69	176
n Hucknall Torkard (Forge Mills) ..	J. D. Walker, Esq....	5	1 0	200 $?$	28·24	184
n† Gonalston Rectory	Rev. F. H. Paley	5	1 0	70	29·70	189
Southwell (Oxton Hall)	Captain Sherbrook	5	0 9	182	28·14	180
n Papplewick (Water Works)	S. Moore, Esq.	8	0 10	317 π	32·22	191
n „ Hall	F. A. Smith, Esq.	5	0 7	321 Γ	34·24	137
Annesley (Selston W.W.)	Messrs G. & F. W. Hodson	5	1 0	475 π	33·46	191
Southwell (Westhorpe Hall) ..	Genl. Warrant	5	1 0	147	27·34	...
Newark (Averham Rectory)	Rev. J. Walker	5	0 6	50	25·90	...
n† Farnsfield	Dr. Wills	5	1 0	210 Γ	28·63	207
Sutton-in-Ashfield W.W.	Messrs G. & F. W. Hodson	5	1 1	462 π	30·66	136
Mansfield (W.W. Rainworth) ..	Mr. R. G. Pilbeam	5	1 0	360 π	32·78	180
n „	Mr. P. J. Shacklock ..	5	1 0	350	35·12	219
n South Scarle	Rev. E. C. Shawfield ..	5	1 4	52	23·75	148
n Ollerton (Boughton W.W.)	S. Moore, Esq.	8	0 7	141 π	26·77	182
n „ (Thoresby Gardens) ..	Mr. W. Robertson	8	0 9	125 π	30·97	126
Workshop	Gt. Central R. Co.	9	3 6	127	27·10	185
n „ (Osberton Gardens) ..	Mr. Allsop	5	4 0	70	27·12	186
Retford	Gt. Central R. Co.	9	3 6	52	24·14	180
n „ (Morton Hall)	W. H. Mason, Esq. ...	5	1 0	140	28·38	174
„ (Babworth Hall)	Col. Denison	5	1 0	92 π	25·47	...
n Workshop (Hodsock Priory)	H. Mellish, Esq.	8	1 0	56 π	27·10	190
„ („ „)	„ „ „	5	1 0	56 π	26·49	...
The Gardens [Bawtry Hall] ..	L. T. Baines, Esq.	5	1 0	31 Γ	28·10$?$	...
n Hesley Hall [Tickhill]	B. I. Whitaker, Esq....	8	0 11	61 Γ	25·32	173
DERBY.						
n Melbourne Vicarage	Rev. Canon Singleton ..	5	1 0	177 π	33·78	173
n „ (The Hollow)	Mr. W. Garratt	5	1 0	182 π	32·06	163
n Chellaston	H. Chambers, Esq.	5	1 0	170 Γ	34·23	197
Willington (S. & A. W. W. Milton)	Messrs G. & F. W. Hodson	5	1 0	134 π	29·66	167
Findern (The Longlands)	Rev. B. W. Spilsbury ..	5	0 9	186 π	28·10	...
n Etwall (Blakeley Lodge)	Mr. R. Giles	5	1 0	190 π	29·25	156
Mickleover (County Asylum) ..	R. Legge, Esq., M.D....	5	0 9	300 Γ	30·63	173

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which "01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
DERBY—(con.)						
Mr. J. Campbell	5	2	0	280	32·07	156
Messrs. J. Davis & Son	5	1	0	174	34·62	187
W. Langdon, Esq.	5	1	5	156	34·12	194
W. G. Carnt, Esq.	5	0	9	195	35·83	217
J. Ward, Esq., C.E.	8	1	0	196	34·37	186
Dr. Copestake	5	8	0	192	32·48	159
Miss Thompson	5	1	3	280	34·23	227
A. Victor Haslam, Esq.	5	1	6	380	36·00	199
Messrs. J. Davis & Son	5	1	6	380	34·83	...
Sir J. G. N. Alleyne, Bart.	5	4	0	515	32·77	184
Mr. J. W. Twigg	5	1	0	582	34·21	183
J. Hunter, Esq., C.E.	5	0	8	294	39·52	216
M. Hunter, Esq.	8	0	8	312	38·45	197
A. F. Pine, Esq.	5	0	10	372	38·21	210
A. F. Hurt, Esq.	5	5	5	541	31·91	167
Rev. Canon G. H. Sing	5	1	0	537	43·17	169
Mrs. Chadwick	5	1	0	500	44·20	169
J. H. Hay, Esq.	5	1	0	360	42·20	182
Mrs. Wildgoose	5	1	6	500	38·49	...
Whitworth Inst. Trustees	5	1	5	600	41·25	...
A. Clay, Esq.	5	1	6	459	40·69	...
Mr. Peers	5	1	0	459	42·51	213
Mr. Wilson	5	1	8	360	42·41	160
Mr. J. Norman	5	1	8	400	40·00	213
W. Chester, Esq.	5	4	3	447	40·00	213
Chesterfield Corporation	5	4	3	447	30·16	173
Gt. Central R. Co.	8	2	6	594	35·90	196
Chesterfield Corporation	5	19	10	370	23·73	167
Gt. Central R. Co.	8	5	5	404	37·63	211
Chesterfield Corporation	5	1	0	279	31·04	154
Gt. Central R. Co.	9	3	6	251	29·86	173
Chesterfield Corporation	8	1	0	490	35·41	188
Mr. Bloxham	5	1	0	490	34·20	188
The Royal Meteor. Soc.	5	3	3	400	29·08	155
W. H. Grieves, Esq. C.E.	5	1	0	988	56·73	220
W. F. Jackson, Esq. C.E.	8	1	0	1600	60·90	229
Gt. Central R. Co.	8	1	0	1340	56·56	225
Gt. Central R. Co.	8	1	0	1400	56·43	225
Gt. Central R. Co.	5	4	6	999	42·07	199
Gt. Central R. Co.	9	3	6	1669	36·60	...
Gt. Central R. Co.	9	3	6	710	40·37	228
Gt. Central R. Co.	9	3	6	965	40·43	227
W. A. Milner, Esq.	5	1	0	700	40·00	165
Gt. Central R. Co.	9	3	6	238	31·36	208
Gt. H. Hill, Esq., C.E.	5	1	6	310	35·80	...
Lord Howard of Glossop	8	1	5	533	44·30	204
Mr. J. Ganner	12	4	6	733	39·95	...
Gt. Central R. Co.	9	3	6	878	52·77	232

DIVISION VIII.—NORTH WESTERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet	inches.	
CHESHIRE.						
D Baddiley (Nantwich W. W.) ...	Baldwin Latham Esq CE	5	1 0	231	30·04	129
D Nantwich (Dorfold Hall)	J. A. Saner, Esq., C.E.	8	1 6	190	28·87	161
D " (Reaseheath Hall) ...	" " "	8	1 0	130	32·93	197
D Sandbach (Malkins Bank)	Mssrs Brunner Mond & Co	5	3 8	244 ∇	26·74	192
Aldford (Woodhouse)	W. H. Phillips, Esq....	5	1 1	43 ∇	26·50	179
D Eaton Hall Gardens	Mr. N. F. Barnes	5	3 0	64 ∇	28·28	178
Eccleston	E. Wells, Esq.	5	1 1	94 ∇	27·14	180
" Rectory	Rev. A. G. Robins	5	6 0	83 ∇	27·21	178
D Congleton (Buglawton Vic.).....	Rev. W. Besant.....	8	5 0	352 ∇	34·64	199
Bosley Reservoir	Gt. Central R. Co.....	9	3 6	590 ∇	32·02	203
" Minns	" " "	9	3 6	1210 ∇	36·66	210
Macclesfield (Wincle)	E. B. Smith, Esq., C.E.	5	3 0	500	40·25	183
D Chester (Christleton Hall)	Mr. T. Weaver	5	1 2	142 ∇	29·87	185
D " (Water Works)	A. Bell, Esq.	5	0 10	85 ∇	34·46	196
" (Northgate Station).....	Gt. Central R. Co.....	9	3 6	84 ∇	29·97	167
D " (Parkgate Road)	Rev. J. C. Mitchell	5	1 0	60 ∇	31·49	188
D† " (The Nurseries)	Messrs. Dicksons	5	1 0	62 ∇	31·58	175
D " (Hoole Lodge)	Lt.-Col. Hamersley	5	1 0	108 ∇	31·64	209
D Middlewich	Mssrs Brunner Mond & Co	5	3 10	138 ∇	29·98	196
" (Bostock Hall)	Col. France Hayhurst..	5	2 6	157 ∇	34·65	157
D Macclesfield (The Park)	Mr. J. Dale.....	5	1 0	501 ∇	36·63	206
"	Gt. Central R. Co.	9	3 6	539	42·78?	219
D Chelford (Astle Hall)	G. Dixon, Esq.	5	1 0	250 ∇	33·43	188
" (" ")	M " " "	8	1 0	250 ∇	32·57	...
Northwich	Gt. Central R. Co.....	9	3 6	76 ∇	30·47	153
D " (Highfield)	J. A. Saner, Esq., C.E..	8	3 4	118 ∇	33·20	214
D " (") <i>Snowdon</i>	" " "	8	1 0	115 ∇	33·63	212
D " (Winnington).....	Mssrs Brunner Mond & Co	5	3 8	80 ∇	33·04	212
D Macclesfield (Swanscoe Park) ...	T. C. Horsfall, Esq. ...	5	1 0	676 ∇	38·70	228
D*Neston (Hinderton)	Reginald Bushell, Esq.	5	1 0	215 ∇	30·75	191
* " (")	M " " "	8	1 0	215 ∇	30·82	...
* " (") <i>Lodge</i> ... M	" " "	5	1 0	145 ∇	29·87	...
Bollington (Spond's Hill).....	Gt. Central R. Co.....	9	3 6	1279 ∇	33·01	...
D Hooton Grange	W. H. Jones, Esq.....	5	1 0	110 ∇	32·24	171
D Knutsford	G. Pearson, Esq.	8	1 0	212 ∇	33·20	187
D Wilmslow (Parksyde)	E. Pearson, Esq.	8	1 0	253 ∇	33·74	202
" (Poplar House)	J. Holden, Esq.	5	1 0	237 ∇	31·72	187
†Whaley	Gt. Central R. Co.....	9	3 6	602 ∇	41·91	219
Disley (Lyme Park).....No. 1	T. Molyneux, Esq.....	9	3 8	720 ∇	50·92	171
D " (" ").....No. 2	" " "	12	2 9	674 ∇	36·54	175
D Runcorn (Weston Point)	J. A. Saner, Esq., C.E.	8	2 4	18	40·11	190
Thurstaston (Dawpool).....	Mr. R. Horne .....	...	...	...	28·58	...
D West Kirby (Caldy Manor)	Mr. W. Neish.....	5	1 0	129 ∇	30·52	179
D " (Greenfield)	H. Bell, Esq.	5	1 0	75 ∇	27·96	181
D Bowdon (Erlesdene)	E. J. Sidebotham, Esq.	5	1 0	211 ∇	29·63	201
" (")	" " "	5	1 0	211 ∇	32·57	205
" (")	M " " "	5	1 0	211 ∇	32·54	...
D Thelwall (Millington House) ...	L. W. Reynolds, Esq..	5	1 0	85 ∇	33·00	186

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft. in.	feet.	inches.	
CHESHIRE—(con.)						
Altrincham (Norman's Place)....	A. Griffiths, Esq.	5	8 0	150 T	36·28	175
„ (Barrington House).....	C. E. Newton, Esq., C.E.	8	3 0	105	33·83	...
Cheshire (Harthill).....	R. A. Grundy, Esq.	5	1 0	142 T	34·73	183
Hoylake (The Chase, East)	J. F. Leigh Clare, Esq.	5	1 0	29 T	26·09	173
„ (District Council Office)	T. Foster, Esq.	5	1 0	33 T	29·10	...
† Birkenhead (Bidston Obs.)	W. E. Plummer, Esq..	8	1 0	189 T	32·05	208
Northenden (Wythenshawe).....	T. E. Tatton, Esq.	5	1 0	114 T	31·56	197
„ („).....	„ „ „	8	...	...	31·84	...
Marple Top Lock	Gt. Central R. Co.	9	3 6	523 T	33·80	194
„ Aqueduct	„ „ „	9	3 6	321 T	33·51	197
New Brighton (Rutland House).....	W. Bell, Esq.	5	1 0	130 B	31·00	177
Godley Reservoir	G. H. Hill, Esq., C.E..	12	2 0	500	34·43	...
Newton	Gt. Central R. Co.	9	3 6	396 T	36·00	207
Mottram Station	„ „ „	9	3 6	452 T	29·53	202
„ (Hill End)	„ „ „	9	3 6	680 T	37·45	215
Broadbottom (Harewood Lodge).....	Col. Sidebottom	5	1 0	440	38·54	161
Hadfield (Millbrook).....	Mr. S. H. Doxon	8	3 10	442 T	41·24	214
„ („).....	„ „ „	12	4 0	442 T	41·77	214
Arnfield Reservoir.....	G. H. Hill, Esq., C.E..	12	2 6	550	41·04	...
† Rhodes Wood Reservoir	„ „ „	12	1 0	520	44·49	...
† Torrside Reservoir.....	„ „ „	12	1 6	680	45·81	...
Staleybridge (Swineshaw).....	„ „ „	8	3 0	884 T	51·86	...
† Woodhead Reservoir.....	„ „ „	12	0 10	660	47·50	...
LANCASHIRE.						
Garston (Grassendale Park).....	Miss E. C. Abraham ...	5	1 0	35 T	32·94	198
Aigburth (Kelton).....	J. Sing, Esq.	5	1 0	150 T	32·70	193
„ (Holmfield)	Miss Maxwell.....	5	1 0	100 T	33·05	204
Gateacre (The Nook).....	P. C. Hall, Esq.....	5	1 0	90 T	32·16	201
Warrington (Howley)	T. Longdin, Esq.	10	0 10	19 T	34·85	191
„ (Central Station) ...	Gt. Central R. Co.....	9	3 6	59 T	32·53	179
„ (Training College).....	Miss F. G. Timewell ...	8	0 9	34 T	30·68	181
Liverpool (St. John's Gardens) ..	J. A. Brodie, Esq., C.E.	9	2 3	48 T	32·75	178
„ („) ..	„ „ „	5	0 9	47 T	32·58	180
„ (Smithdown Road) ...	„ „ „	5	0 9	135 T	31·04	186
„ (Rathbone Road)	„ „ „	10	1 0	199 T	34·70	192
„ (Huyton Vicarage) ...	Mrs. E. M. Sanderson..	5	0 11	116 T	35·90	191
„ (Newsham Park)	J. A. Brodie, Esq., C.E.	10	1 0	140	34·87	...
„ (Breeze Lane)	„ „ „	5	0 9	135 T	33·94	197
„ (Grove Park).....	the late J. R. Darsie, Esq.	5	6 0	160	33·09	...
„ (Huskinson Station) ...	Gt. Central R. Co.....	9	3 6	40 T	33·01	188
Heaton Mersey [Stockport]	W. B. Leigh, Esq.....	5	3 11	218 T	29·08	205
Heaton Moor [Stockport]	Dr. F. W. Jordan	5	1 0	235	32·87	212
Manchester (Withington) No. 1	J. King, jun., Esq.	5	1 3	110 T	31·71	195
„ („) No. 2	„ „ „	8	1 6	110 T	29·21	195
„ („).....	J. H. Casartelli, Esq...	5	1 7	120 T	32·87	202
„ (Stretford)	H. Royle, Esq., C.E....	5	1 0	86 T	35·51	207

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft in.	feet.	inches.	
LANCASHIRE—(con.)						
Manchester (Urmston Sewage Works)	Mr. Ogden	8	2 3	72 ∇	34·71	193
„ (Lady Barn, Fallowfield)	Miss C. Herford	5	1 0	122 ∇	30·58	207
Denton Reservoir	G. H. Hill, Esq., C.E.	12	2 0	324 ∇	31·31	...
Gorton	„ „	12	2 0	263 ∇	33·08	...
Manchester (Plymouth Grove)	J. F. Roberts, Esq.	5	4 2	150 ∇	34·83	199
† „ (Piccadilly)	Gt. Central R. Co.	9	40 0	194 ∇	30·94	185
„ (Fairfield)	„ „	9	6 0	312 ∇	36·96	207
„ (Oldham Road)	Dr. Niven	5	1 0	191 ∇	36·82	203
„ (Worsley New Hall)	Mr. W. B. Upjohn	8	8 0	100 ∇	35·40	173
„ (Worsley Old Hall)	W. Bourke, Esq., C.E.	5	1 0	185 ∇	39·72	188
Blundellsands (Park Corner)	T. M. Reade, Esq. C.E.	5	1 0	33 ∇	32·12	...
Manchester (Newton Heath)	J. Warren, Esq.	5	1 0	275 ∇	38·56	200
„ (Cheetham Hill)	WB Worthington Esq CE	5	1 0	264 ∇	38·47	210
Ashton (Waterhouses)	Gt. Central R. Co.	9	3 6	345 ∇	40·49	213
Prestwich Asylum	The Meteor. Council	8	1 0	295	42·76	210
„ Reservoir	G. H. Hill, Esq., C.E.	12	2 0	356 ∇	36·72	...
† Oldham (Gas Works)	„ „	5	4 0	600 ∇	45·52	...
„ (Honeywell Lane)	Gt. Central R. Co.	8	...	553	41·76	221
„ (Brushes Clough) <i>old g.</i>	C. J. Batley, Esq., C.E.	5	4 0	930 ∇	52·85	209
„ („) <i>new g.</i>	„ „	5	5 0	955 ∇	52·31	208
Ormskirk (Aughton Springs)	C. E. Maples, Esq.	5	1 0	150	33·28	207
Wigan Waterworks	W. Bolton, Esq.	8	1 6	225 ∇	38·84	212
Downholland (Barton Moss)	J. Baxendell, Esq.	5	0 9	14	31·18	201
Bolton (The Park)	W. W. Midgley, Esq.	5	1 0	390 ∇	45·59	223
„ (Heaton) <i>new g.</i>	RHSwindlehurst Esq CE	5	1 3	500	45·22	244
„ (Ash Lawn, Heaton)	F. Taylor, Esq.	5	1 0	406	46·52	217
„ (Moss Bank)	Col. R. H. Ainsworth	8	1 6	536 ∇	51·15	224
„ (Smithills Hall)	„ „	8	1 2	510 ∇	51·99	221
† Milnrow (Piethorne, Kitcliffe)	C. J. Batley, Esq., C.E.	5	4 6	767	49·87	206
„ („ Coldgreave)	„ „	5	4 2	894 ∇	65·65	207
† Rochdale (Deeplish Hill)	J. H. Lancashire, Esq.	5	1 0	475 ∇	46·76	220
† „ (Park Observatory)	Dr. Henry	8	0 6	472	52·84	223
† „ (Fieldhead)	S. S. Platt, Esq., C.E.	8	12 0	484 ∇	45·69	206
„ (The Crescent)	Dr. T. H. Hayle	5	40 5	513 ∇	45·10	238
† Bury (Gin Hall) <i>old g.</i>	R. B. Rigby, Esq.	8	1 0	475	47·44	200
† „ („) <i>No. 2</i>	„ „	8	1 0	475	48·29	200
Ormskirk (Rufford)	G. Hobkirk, Esq.	5	0 8	39 ∇	34·80	136
Bolton (Belmont) <i>new g.</i>	RHSwindlehurst Esq CE	5	0 9	800	59·00	226
Southport (Birkdale)	J. Baxendell, Esq.	5	1 0	27 ∇	33·61	207
Rochdale (Nayden Dean Filters)	J. Diggle, Esq., C.E.	5	1 8	761 ∇	49·14	198
† „ („) <i>old g.</i>	„ „	5	1 7	948 ∇	43·36	...
† „ („) <i>new g.</i>	„ „	5	1 3	948 ∇	46·43	...
† „ (Spring Mill Whitworth)	W. Tomlinson, Esq.	8	1 7	720	54·66	205
† „ (Cowm, „)	„ „	8	1 7	760	54·29	199
† „ (Facit)	T. S. Smithson, Esq.	5	0 6	855 ∇	58·02	235
Southport (Hesketh Park)	M J. Baxendell, Esq.	5	1 0	38 ∇	33·72	...
„ („) <i>M.O.g.</i>	„ „	8	1 0	38 ∇	33·69	187
„ (Lord Street Station)	Gt. Central R. Co.	9	3 6	21 ∇	29·73	179

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
LANCASHIRE—(con.)						
n Southport (Park Crescent)	J. Watkins, Esq.	5	1 0	30 T	35·29	198
Entwistle <i>new g.</i>	RHSwindlehurstEsqCE	5	1 0	700	57·90	204
Blackstone Edge (Hollingworth)	Rochdale Canal Compy†	10	1 5	650	42 50	...
+ " " (Windy Bank)	" " "	10	1 6	600	39·50	...
+ " " "	" " "	10	1 9	1225	43·10	...
+ " " (Canal Summit)	" " "	10	1 10	700	39·50	...
+ " " (Chelburn) ...	" " "	10	1 3	800	42·90	...
" " (Lenches)	" " "	10	1 10	800	49·60	...
+ " " (Calf Lee)	" " "	10	1 6	960	46·37	...
Chorley (Crooke Hall)	Carlton Cross, Esq. ...	5	2 6	265 T	40·65	189
† Todmorden W.W. (Ramsden Moor)	W. Tomlinson, Esq. ...	5	1 0	1326 T	57·85	...
† " " (" Res.) ..	" " "	8	1 0	980 T	58·49	241
Haslingden (Holden Wood)	R. B. Rigby, Esq.	8	1 0	670	51·57	204
" (Calf Hey)	" " "	8	1 0	800	52·94	204
" (Hazelwood)	Dr. Harrison	5	1 9	830 T	50·67	175
" (Springfield Lodge) ..	J. Stott, Esq.	5	...	770	50·50	...
" Vicarage	Rev. A. Spencer	8	1 6	820 T	55·13	223
" (Mitchells House Res.)	C. Harrison, Esq.	5	1 6	990	47·45	171
n Over Darwen (Sunnyhurst Hey.)	R. W. S. Saville, Esq. ..	8	1 8	915 T	43·51	225
" (Earnsdale Res.)	" " "	8	1 8	705 T	45·39	225
" (St. James's Vic.) ..	Rev. W. H. Blamire ...	5	1 0	564 T	50·75	205
" (Gillibrand Obs.) ...	Mr. G. Mainland	8	1 0	711 T	55·79	217
" (Hoddlesden) No.1	W. Stubbs, Esq., C.E..	8	4 0	680	53·52	185
" (Daisy Green) No.1	" " "	8	1 0	969	49·32	191
" (" ") No.2	" " "	8	1 0	969	49·68	191
" (Pickup Bank) No.1	" " "	8	1 0	720	48·98	191
" (" ") No.2	" " "	8	1 0	720	46·88	191
Rawtenstall Cemetery	A. W. Lawson, Esq., C.E.	8	1 0	572	52·53	214
n Todmorden (Scaitcliffe)	W. Ormerod, Esq.	8	1 0	468 T	56·36	216
Lytham	The Meteor. Council ...	5	0 8	...	35·03	197
Blackburn (Guide Reservoir) ...	W. Stubbs, Esq., C.E..	8	1 0	650	44·42	184
" (Witton)	" " "	8	2 6	315 T	43·37	193
" (Store Yard)	" " "	8	30 0	373 T	36·05	155
" (Corporation Park) ...	" " "	5	0 6	584 T	43·77	220
+ Rawtenstall (Cloughbottom Res.)	R. B. Rigby, Esq.	8	1 0	1025	48·41	192
† " (Clough Bridge Res.)	" " "	8	1 0	900 T	47·16	243
Preston (Corporation Offices) ...	T. Cookson, Esq.	8	18 0	148	37·29	...
Burnley Waterworks { † Causeway Side	W. Williamson, Esq.	8	2 0	1116	45·25	...
{ † Sheddin	" " "	8	2 0	960	44·97	...
{ † Cant Clough, S. Side	" " "	8	2 0	900	41·37	227
{ † " " N. Side	" " "	8	2 0	900	41·48	227
{ † Rams Clough Head	" " "	8	2 0	1260	43·60	...
Rishton Reservoir	Leeds & L'pool Canal Co.	...	...	467	34·91	...
Huncoat (Burnley Road Res.) ...	C. Harrison, Esq.	9	1 6	620 T	37·99	187
† Burnley (Yorkshire Street)	W. Williamson, Esq. ...	8	30 0	420 T	41·58	215
† " (Swinden, Upper)	" " "	8	12 0	820 T	46·51	234

† Returns supplied by C. R. Dykes, Esq.

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
LANCASHIRE—(con.)						
† Burnley (Swinden Lower)	W. Williamson, Esq. ...	8	2 0	745 ∇	46·93	234
† „ (Extwistle Moor)	„ „ „ „	8	2 0	1310 ∇	49·76	...
D „ (Gawthorpe Hall)	A. Ford, Esq.	8	1 3	316 ∇	44·38	180
D Preston (Haighton)	J. J. Myres, Esq., C.E. ...	5	1 2	255 ∇	38·37	192
Alston	T. Cookson, Esq.	8	1 2	320 ∇	40·91	...
Kirkham (Weeton)	C. Arthur, Esq.	10	1 0	95 ∇	38·08	...
D Barton (Anderton Fold)	W. H. Mason, Esq. ...	5	0 6	90 ∇	40·32	197
Blackpool Hospital	Dr. Anderson	5	1 0	59 ∇	36·92	196
Nelson (Coldwell Reservoir)	C. E. Newton, Esq., C.E. ...	8	2 0	950 ∇	32·68	...
Worthdale (Watersheddles)	W. H. Hopkinson, Esq., C.E. ...	5	1 0	1115 ∇	52·04	...
Stonyhurst College	Rev. W. Sidgreaves ...	11	1 0	376 ∇	48·21	220
D „ „ „	„ „ „ „	11	2 0	377 ∇	48·22	220
„ „ „	M „ „ „ „	11	1 0	376 ∇	46·71	...
Preston W. Works. { Knowle Green	M T. Cookson, Esq.	8	1 2	400 ∇	41·85	...
„ { Loud-scales	M „ „ „ „	8	1 2	400 ∇	42·92	...
„ { Spade Mill	M „ „ „ „	8	1 2	400 ∇	42·26	...
„ { Jeffrey Hill	M „ „ „ „	8	1 2	900 ∇	47·97	...
D St. Michael's-on-Wyre Vic.	Rev. P. J. Hornby	5	1 0	26 ∇	37·69	205
D Beaton Fell (Barnsfold Res.)	J. J. Myres, Esq., C.E. ...	5	1 6	506 ∇	37·29	173
„ „ „ „ „ M	„ „ „ „ „	5	1 6	506 ∇	37·26	...
Barrowford Reservoir	Leeds & L'pool Canal Co. ...	8	1 0	473	41·76	...
Foulridge (Canal Office)	„ „ „ „	8	1 0	497	43·64	...
„ (Cragg Nook Hill)	„ „ „ „	8	1 0	690	40·06	...
„ (Upper Reservoir)	„ „ „ „	8	1 0	582	39·51	...
D Garstang (Bruna Hill)	Sydney Wilson	5	0 6	71 ∇	39·90	185
Clitheroe (Downham Hall)	R. Assheton, Esq.	10	1 6	464 ∇	45·36	...
D Chatburn (Middlewood)	W. K. Wilkinson, Esq. ...	5	1 3	363 ∇	48·21	156
Garstang (Fairsnape Clough) M	Messrs. A. & S. Wilson	5	0 6	930 ∇	64·35	...
„ (Barnacre Reservoir)	C. Arthur, Esq.	5	1 0	617 ∇	47·48	...
„ (Grizedale Reservoir)	„ „ „ „	5	1 0	519 ∇	45·00	...
„ „ (Stake House)	„ „ „ „	5	1 0	775	52·12	...
Fleetwood	M. S. Gaultier, Esq. ...	5	1 4	30	36·84	...
Pilling	Messrs. A. & S. Wilson	5	0 9	12 ∇	36·31	...
D Garstang (Forton)	J. H. Bonny, Esq.	5	1 6	65 ∇	40·55	206
Wyresdale (Abbeystead)	J. Cook, Esq., C.E. ...	8	1 0	366 ∇	45·81	163
D Hampson-in-Ellel	W. G. Welch, Esq. ...	5	1 6	145 ∇	41·51	205
Quernmore (Old Gauge Basin) M	J. Cook, Esq., C.E. ...	8	1 0	963 ∇	51·39	...
Wyresdale (Wardstone)	„ „ „ „	8	1 0	1440 ∇	68·29	...
Quernmore (Brow Top)	„ „ „ „	8	1 0	552 ∇	48·23	189
D Heysham House	Miss Tomlinson	5	1 6	80	49·03	192
Lancaster (Marton Street Yard)	J. Cook, Esq., C.E. ...	8	1 9	70 ∇	42·86	203
„ (Greg Observatory)	Dr. Schloesser	8	1 0	312	48·56	204
Caton (Escowbeck)	A. Greg, Esq.	10	3 0	150 ∇	43·38	195
„ (Caton Vicarage)	Rev. W. J. Locke	5	1 0	160	53·99	...
Morecambe	Mr. T. B. Lamb	8	1 0	24 ∇	39·78	170
D Wray Vicarage	Rev. C. L. Reynolds	5	1 0	165 ∇	44·96	207
Bolton-le-Sands	Rev. A. R. Tomlinson .....	...	3 6	40 ?	45·38	...
Melling (Hornby Castle)	Col. Foster	8	1 8	100	47·42	185

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.	
		Diameter	Height Above Ground.	Height Above Sea Level	1900		
LANCASHIRE—(con.)			ft.	in.	feet.	inches.	
Barrow-in-Furness	W. Fergusson, Esq. ...	11	1	6	36 ∇	46·06	190
Arkholme (Storrs Hall)	F. F. Pearson, Esq. ...	5	1	0	220	49·14	...
∇ Carnforth (Yealand Conyers) ...	W. O. Roper, Esq.	5	1	0	250	47·87	202
Silverdale	Mr. T. R. Taylor	8	1	0	120	51·46	183
∇ Ulverston (Urswick)	Rev. R. B. Billinge ...	5	1	6	124	58·34	216
∇ Lindal (Berkune Mines)	F. A. Ainslie, Esq. ...	5	8	0	215 ∇	50·47	187
∇ Cartmel (Carke)	Mr. W. R. Nash	5	1	0	75 ∇	51·93	201
∇ † „ (Holker)	VCW Cavendish Esq MP	8	4	8	155 ∇	51·96	185
∇ Grange-over-Sands (Belmont) ...	Dr. W. M. Burman ...	5	1	0	180 ∇	52·06	206
∇ „ „ „ (Eggerslack)	Miss Arkwright	5	2	6	140 ∇	53·71	210
∇ † Ulverston (Poaka Beck)	W. Fergusson, Esq. ...	11	1	6	512 ∇	61·37	240
Cartmel (Pit Farm)	Mr. W. R. Nash	5	1	0	122 ∇	54·47	...
„ (Broughton Hall)	Col. Ainsworth	5	2	8	225	55·26	195
Colton	Rev. A. Christopherson	5	1	0	226 ∇	63·27	196
„ „ „ M „ „ „	„ „ „	8	1	0	226 ∇	63·33	...
∇ Finsthwaite Vicarage	Rev. S. Inman	8	1	2	250	62·85	192
∇ Broughton-in-Furness	C. Chambers, Esq. ...	5	1	3	101	63·94	204
∇ Blawith	Rev. J. Ashburner.....	5	0	10	185 ∇	68·97	193
∇ Cartmel Fell Vicarage	Rev. W. Summers.....	5	0	8	220 ∇	67·98	213
Hawkshead (Esthwaite Lodge) ..	Major Alcock-Beck ...	5	3	6	232 ∇	76·39	...
„ „ „ („ Strickland Ease) ..	„ „ „	5	3	6	254 ∇	68·75	...
∇ † Duddon Valley (Seathwaite Vic.)	Rev. S. R. M. Walker.	5	1	0	330 ∇	92·41	236
∇ † Monk Coniston Park	Mr. Wray	5	1	2	305 ∇	96·09	223
Hawkshead (Black Fell)	S. A. Marshall, Esq. .	5	1	6	1055 ∇	79·31	...
∇ Skelwith Fold [Ambleside]	„ „ „	5	1	0	333	89·38	246
„ „ „ [„ „]	„ „ „	5	1	0	333	89·31	...

DIVISION IX.—YORKSHIRE.

WEST RIDING.

† Sheffield (Brincliffe Edge)	Gt. Central R. Co.	9	3 6	336 ∇	33·60	178
∇ „ (Stumperlow Hall) ...	H. J. Dixon, Esq.	5	1 0	700	38·83	201
∇ † „ (Redmires Res.)	L.S.M. Marsh, Esq., C.E.	10	5 0	1110 ∇	44·23	218
„ „ „ „ „ weekly	„ „ „	8	4 0	1110 ∇	43·90	...
∇ „ (Tylecote, Ranmoor) ...	J. Dixon, Esq.	5	1 0	610 ∇	37·23	204
∇ „ (Rivelin)	L.S.M. Marsh, Esq., C.E.	10	4 0	564 ∇	38·91	191
„ „ „ „ „ weekly	„ „ „	8	4 0	564 ∇	38·81	...
∇ † „ (Crookes)	„ „ „	10	2 0	629 ∇	31·40	195
† „ „ „ „ „ weekly	„ „ „	8	2 0	629 ∇	32·61	...
∇ „ (West Street)	C. J. Barker, Esq.	8	32 0	336 ∇	29·40	182
∇ „ (Weston Park)	E. Howarth, Esq.	8	1 0	430 ∇	32·91	192
† „ (Victoria Station)	Gt. Central R. Co.	9	3 6	188 ∇	27·38	177
∇ Rotherham (Ulley Res.)	G. W. Jennings, Esq. ...	5	1 0	184	22·82	139
Sheffield (Tinsley Locks)	Gt. Central R. Co.	9	...	117 ∇	26·22	183
∇ Tickhill (Sandbeck Park) ...	Mr. G. Summers.....	8	1 0	150 ∇	28·50	179
∇ † Rotherham (Moorgate Grange)...	C. E. Chrimes, Esq. ...	5	1 0	262 ∇	27·99	136

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell
		Diameter	Height Above Ground		Height Above Sea Level	
			ft.	in.	feet.	inches.
WEST RIDING—(con.)						
Rotherham (Thrybergh)	W. H. R. Crabtree Esq CE	8	1	0	184 $\overline{\text{A}}$	27·56
D Tickhill	G. G. Phillips, Esq. ...	8	1	0	61 $\overline{\text{A}}$	27·54
D Sheffield (Chapel town)	Mr. D. Bell	8	5	0	582 L	30·80
Doncaster (Firsby)	W. H. R. Crabtree Esq CE	8	1	3	189 $\overline{\text{A}}$	28·07
D „ (Wadworth Hall)	Rev. J. C. Ross	8	1	0	190 $\overline{\text{A}}$	28·15
D Bolsterstone (Waldershaigh) ...	C. M. Wilson, Esq.	8	3	1	950 T	35·29
D Wentworth Woodhouse	Mr. J. Hughes	5	0	10	360 T	30·51
Mexborough	G Fenwick Carter Esq CE	5	2	0	170 $\overline{\text{A}}$	24·56
Wortley	Gt. Central R. Co.	9	3	6	548 T	31·19
Elsecar	„ „ „	9	3	6	181 T	26·17
\dagger Langsett Moor (Pike Lowe)	J. H. Taylor, Esq., C.E.	5	1	0	1358 T	54·38
\dagger „ „ (Ewden Height)	„ „ „	5	1	0	1099 T	47·32
\dagger „ „ (Range Moor)	„ „ „	5	1	0	1040 T	52·40
$\text{D}\dagger$ „ „ (Upper Midhope)	„ „ „	5	1	0	912 T	48·15
D Langsett	W. Watts, Esq., C.E. ...	8	4	3	960 $\overline{\text{A}}$	38·00
D „	„ „ „	8	4	9	802 $\overline{\text{A}}$	39·66
D Hoyland (King Street)	J. W. „ Wilson, „ Esq. ...	5	1	0	330	28·47
D Wath-upon-Deerne (Chapel St.)	Dr. Burman	8	3	0	188 $\overline{\text{A}}$	29·52
Worsborough	Gt. Central R. Co.	9	3	6	225 T	26·66
D Stainborough (Wentworth Castle)	W. Fisher, Esq.	8	2	6	520 T	33·01
Doncaster	Gt. Central R. Co.	9	3	6	32 T	23·28
„ (Pumping Station) ...	WHR Crabtree, Esq CE	8	1	2	30 $\overline{\text{A}}$	26·10
D „ (Magdalens)	Mr. C. Parkin	5	4	9	46 T	26·13
Dunford Bdg. (Up. Windleden) M	H. Dearden, Esq., C.E.	12	2	2	1100	50·68
\dagger „ „ (Dearden Res.) M	„ „ „ „	12	1	6	1244 T	52·45
\dagger „ „ Station	Gt. Central R. Co.	9	3	6	954 T	45·16
$\text{D}\dagger$ „ „ Reservoir	H. Dearden, Esq., C.E.	12	2	0	1111 T	49·13
Greenfield (Chew Mount)	G. H. Hill, Esq., C.E..	7	0	7	...	53·80
„ (Yeoman Hey)	„ „ „ „	7	0	7	759	54·60
\dagger Penistone (Carlcoates)	Gt. Central R. Co.	9	4	0	1075 T	46·05
\dagger „ „	„ „ „ „	9	3	6	717 T	29·27
\dagger „ (Hazlehead)	„ „ „ „	9	3	9	868 T	45·86
\dagger „ (Ingbirchworth Res.)	J. H. Taylor, Esq. C.E.	8	1	3	853 $\overline{\text{A}}$	37·64
Holmbridge (Yateholme)	O. J. Kirby, Esq., C.E.	7	1	0	861 $\overline{\text{A}}$	59·60
\dagger „ (Holme Styes)	Mr. L. Hinchliffe	7	2	0	830 T	53·90
\dagger „ (Boshaw Whams) ...	„ „ „ „	7	2	0	930 T	54·90
\dagger „ (Bilberry Reservoir) ..	„ „ „ „	7	2	0	820 T	63·20
D Barnsley (Church Street)	Dr. Sadler	5	5	2	355 $\overline{\text{A}}$	29·17
„ (Beckett Square)	J. H. Taylor, Esq., C.E.	8	1	0	306 $\overline{\text{A}}$	29·63
„	Gt. Central R. Co.	9	3	6	317 T	25·17
\dagger Saddleworth Station	M L. K. Jones, Esq.	5	4	2	630 T	44·56
Barnsley (Cawthorne)	Rev. C. T. Pratt	5	1	6	340 $\overline{\text{A}}$	31·13
Strinesdale [Oldham]	C. J. Batley, Esq., C.E.	5	4	0	815 $\overline{\text{A}}$	39·99
\dagger Meltham (Harden Moss)	J. W. Schofield, Esq. ...	8	1	2	1212 T	51·57
„ „ „ „) <i>new g.</i>	„ „ „ „	8	1	0	1212 T	50·22
Wessenden Head	„ „ „ „	8	1	0	1270 T	47·82
„ (Hollin Bank Moss) ...	„ „ „ „	8	1	0	1360 T	35·46

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level	1900	
					ft. in.		feet.	inches.
WEST RIDING—(con.)						
Wessenden (Great Butterley) ...	J. W. Schofield, Esq...	8	1 0	1110 T	54·33	...
„ (Bobus).....	„ „ „ „	8	1 0	1200 T	50·77	...
Standedge (Castleshaw).....	C. J. Batley, Esq., C.E.	8	4 6	876 T	45·10	210
„ (Redbrook Res.) <i>old g.</i>	L. K. Jones, Esq.	8	1 8	1150	49·06	...
„ („ „ „) <i>new g.</i>	„ „ „ „	8	1 6	1150	48·82	...
† Meltham (Brow Grains)	J. W. Schofield, Esq....	8	1 0	900 T	48·19	...
Denshaw (Ox Hey)	C. J. Batley, Esq., C.E	8	4 6	1030 T	49·44	206
„ (New Year's Bridge)...	„ „ „ „	5	4 0	1012 T	48·90	206
„ („ „ „) <i>n.g.</i>	„ „ „ „	8	4 0	994 T	46·41	206
„ (Ready Con Dean).....	„ „ „ „	5	4 6	1414 T	45·26	206
„ („ „ „) <i>n.g.</i>	„ „ „ „	8	4 0	1414 T	49·09	206
Meltham (Royd Edge)	C. L. Brook, Esq.	8	1 0	585 T	55·10	...
„ (Harewood Lodge).....	„ „ „ „	8	1 0	514 L	48·70	213
† „ Grange	J. W. Schofield, Esq....	8	1 2	850 T	45·26	...
† Marsden (Deer Hill)	„ „ „ „	8	1 0	1149 T	46·86	...
„ („ „ „) <i>new g.</i>	„ „ „ „	8	1 0	1149 T	49·37	...
„ Doncaster (Kirk Bramwith).....	H. A. Brundell, Esq. C.E.	5	1 0	17 T	24·43	202
„ † Slaithwaite (Blackmoorfoot).....	J. W. Schofield, Esq....	8	1 0	800 T	45·49	219
„ Hemsworth Hall	F. G. Leatham, Esq....	5	1 0	250 T	27·99	191
„ Chapelthorpe (Crigglestone).....	H. T. Burbury, Esq....	5	1 0	306 T	26·85	192
„ Wakefield (Walton)	E. Simpson, Esq.	5	1 0	140 T	23·61	160
„ Huddersfield (Bankfield, Golcar).....	J. E. Ramsden, Esq....	5	1 0	400 T	39·33	198
„ (Cemetery)	Mr. J. Firth	8	4 0	400	36·83	203
„ † „ (Dalton)	J. W. Robson, Esq. ...	8	1 0	350 T	42·14	190
„ Longwood (Bilberry Edge)	J. W. Schofield, Esq....	8	1 0	1090 T	41·69	...
„ Rishworth (Ringstone Res.).....	C. Clemesha Smith Esq. C.E.	5	1 0	990 T	46·66	...
„ Ackworth (Nostell Priory)	Mr. J. Easter	5	4 0	...	28·01	168
„ Mirfield (Cote Wall) ...	J. Watson-Kaye, Esq..	8	1 2	200	29·26	171
„ Ossett (Lowood House).....	Dr. G. S. Greenwood...	5	1 0	300 T	25·86	156
„ † Wakefield Prison	Mr. A. Clyde	5	1 0	96 T	29·72	169
„ (Field Head)	C. C. Smith, Esq., C.E.	8	1 6	250 T	29·42	166
„ (Stanley Grange)	H. S. Haworth, Esq. ...	5	1 0	235 T	28·69	190
„ Goole (Swinfleet)	Mr. G. Harrison	5	5 6	...	30·32	153
„ „	W. E. Grayburn, Esq.	5	1 0	18 T	24·67	175
„ Elland.....	P. H. Whitwam, Esq..	8	1 0	307 T	37·70	139
„ Batley (Staincliffe Reservoir) ...	O. J. Kirby, Esq., C.E	7	1 0	492 T	27·25	125
„ (Woodwell Depôt)	„ „ „ „	8	1 0	301 T	26·40	161
„ Ardsley Reservoir	C. Clemesha Smith Esq. C.E.	5	1 0	395 T	30·27	178
„ Sowerby Bridge (Haugh End) ...	J. S. Rawson, Esq. ...	5	0 8	450 T	44·79	218
„ Todmorden (Fielden Hospital).....	Mr. F. Rogers	5	1 0	650 T	54·31	221
„ (Sourhall Hospital).....	„ „ „ „	5	1 0	1020	58·04	...
„ Halifax (Bents, Norland) ...	M. J. S. Rawson, Esq. ...	5	0 8	800 T	41·44	...
„ (Bermerside Observatory).....	E. Crossley, Esq.	8	0 6	500	38·95	215
„ (Hall Ings, S. Ofram)...	Rev. G. E. Aspinall ...	5	0 7	750 T	36·89	210
„ (Thorpe)	M. J. S. Rawson, Esq. ...	8	0 8	345 T	46·84	...
„ („ „ „)	„ „ „ „	5	0 8	345 T	47·57	...
„ (Public Library)	J. Whiteley, Esq.	8	1 0	625 T	39·68	205
„ † (Albert).....	J. A. Paskin, Esq., C.E.	5	1 0	795 T	38·08	...
„ † (Gibbet)	„ „ „ „	5	6 0	568 T	37·27	...

DIVISION IX.—YORKSHIRE.—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
WEST RIDING—(con.)						
+Halifax (Ramsden Wood)	J. A. Paskin, Esq., C.E.	8	1 2	816 T	39·63	...
D Mytholmroyd (Ewood Hall).....	Mrs. Riley	8	1 6	500 T	44·00	216
Hebden Bridge (Falling Royd)...	A. R. Crossley, Esq....	4	1 0	479 T	48·24	214
" " (Summerfield)...	J. Hoyle, Esq.	5	0 8	800 T	44·52	223
" Halifax (Castle Carr)	J. A. Paskin, Esq., C.E.	...	...	1060 T	45·32	...
+ " (Midgley Moor)	M " " "	7	0 6	1350 T	48·02	...
+ " (Warley Moor).....	M " " "	7	0 6	1325 T	46·19	...
+ " (Ogden)	M " " "	8	1 3	990 T	44·66	...
" (Ovenden Moor) .....	" " " " .....	...	...	1375	46·88	...
" (Widdop).....	" " " " .....	...	...	1050	49·01	...
+ " (Walshaw Dean).....	M " " "	8	0 3	1380 T	48·98	...
D South Milford Rectory	Rev. F. J. Young	5	1 2	70 T	30·63	198
D Pudsey	Dr. W. Lovell Hunter.	5	1 0	521 T	35·09	177
Bradford (Horton).....	Mr. A. E. Chilton	5	5 0	450 T	37·61	217
" (Queensbury).....	R J. Foster, Esq.....	8	2 2	1050	44·94	175
" (Bowling Dyeworks)...	H. Ripley, Esq.....	8	1 0	490 T	33·14	204
" (Brayshaw Reservoir)...	J. Watson, Esq., C.E..	5	1 0	982 T	44·13	223
D " (The Exchange).....	H. A. Johnson, Esq., C.E.	8	65 6	395 T	36·05	218
" (Thornton Moor)	J. Watson, Esq., C.E..	5	1 0	1218 T	47·98	263
" (Stubden)	old g. " " "	8	1 0	1075 T	51·14	242
" (")	new g. " " "	5	1 0	1071 T	43·69	242
" (Nan Scar, Oxenhope)M	" " " "	5	1 0	1101 T	48·08	...
" (Stairs Top)	M " " "	5	1 0	1401 T	43·11	...
" (Leeming Reservoir)M	" " " "	5	1 0	850 T	44·88	...
" (Doe Park)	old g. " " "	8	1 0	810 T	47·79	229
" (")	new g. " " "	5	1 0	811 T	40·58	229
" (Manningham Lodge)...	J. Priestman, Esq.....	5	1 0	507	39·25	199
" (Leeshaw Res.)	M J. Watson, Esq., C.E..	5	1 0	875 T	47·91	...
" (Chellow Dean)	" " " "	5	1 0	645 T	43·44	211
" (Hewenden Res.)	old g. " " "	5	1 0	700 T	46·20	227
" (")	new g. " " "	5	1 0	701 T	42·34	227
" (Heaton Res.)	old g. " " "	8	1 0	530 T	37·90	192
" (")	new g. " " "	5	1 0	531 T	36·98	190
Leeds (Wortley Res.)	T. Hewson, Esq., C.E..	8	0 9	307 T	32·11	175
" (Knostrop)	" " " "	8	0 9	72 T	32·22	175
D " (Holbeck)	Messrs. J. Rhodes & Co.	10	32 0	127 T	28·52	147
D " (" W. Works Depot)	T. Hewson, Esq., C.E..	8	0 9	93 T	34·44	177
D " (Museum).....	H. Crowther, Esq.....	10	46 0	177 T	30·28	179
" (Woodhouse Moor).....	T. Hewson, Esq., C.E.	8	0 9	307 T	34·37	199
D " (" Cliff)	Miss Reynolds	5	1 0	330	31·91	208
" (Elmet Hall, Roundhay)...	Mr. W. Tindall	5	1 6	400 T	35·41	168
" (Weetwood Reservoir) ...	T. Hewson, Esq., C.E.	8	0 9	328 T	31·37	190
" (" Lodge).....	J. P. Reay, Esq.	5	0 9	400 T	32·15	182
D " (Allerton Hill)	T. Fenwick, Esq., C.E.	5	0 7	418 T	32·27	219
D " (Oliver Hill, Horsforth)...	C. France, Esq.	3	1 0	250 T	33·16	188
Shipley (Crag End)	Leeds & L'pool Canal Co.	8	1 0	304	34·21	...
" (Moor Head).....	H. Mackintosh, Esq....	8	10 0	500	34·41	154
Oakworth (Oldfield)	W H Hopkinson, Esq. CE	5	1 0	1008 T	43·81	...

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
WEST RIDING—(con.)						
Bingley (Gilstead Filters)	J. Watson, Esq., C.E..	5	1 0	572 ∇	34·23	182
Keighley (The Knowle)	W. Clough, Esq.	5	1 0	385 ∇	43·64	220
∇ Adel (Lawns Wood)	Mr. C. S. Irvine.....	5	1 0	475 ∇	34·64	183
„ (Eccup, South)	T. Hewson, Esq., C.E..	8	0 9	390 ∇	32·72	191
„ („ East)	„ „ „ „	8	0 9	375 ∇	34·31	185
Bingley (Sunnydale)	J. Watson, Esq., C.E..	5	1 0	825	39·68	197
∇ Harewood House	Countess of Harewood.	5	1 0	300	35·00	187
∇ Otley (Danefield)	J. E. Sharpe, Esq.....	5	0 9	393 ∇	33·68	173
∇ „ (Sewage Farm)	„ „ „ „	5	0 9	169 ∇	33·58	141
Harewood (Arthington)	T. Hewson, Esq., C.E..	8	0 9	139 ∇	37·34	161
∇ Skipton (Bolton Road, Silsden)..	Mr. A. Elder	5	1 0	370 ∇	35·68	163
„ (Gill Grange, „)	J. Watson, Esq., C.E..	5	1 0	883	37·25	...
∇ Ilkley	G. W. Worfolk, Esq... ∇	5	20 0	312 ∇	41·73	178
∇ „ (Eaton Road)	A. Wilson, Esq.....	5	1 0	360 ∇	44·12	217
∇ „ (Cherry Bank)	Mr. T. Robinson.....	8	1 3	600	45·33	...
Skipton (Silsden Reservoir)	J. Watson, Esq., C.E..	5	1 0	560 ∇	31·22	181
Pannal (Kirkby Overblow)	A. Rowntree, Esq.....	5	0 9	340 ∇	30·41	189
Leathley (Lindley Wood S)	T. Hewson, Esq., C.E..	8	0 9	312 ∇	38·95	227
„ („ „ N)	„ „ „ „	8	0 9	320 ∇	38·99	227
Ilkley (Hollingley)	J. E. Sharpe, Esq.....	5	0 9	665 ∇	38·76	...
Slaidburn (Knowlmer Manor)	W. Peel, Esq.....	5	1 0	417 ∇	60·69	...
„ (Hareden Brook) ... M	T. Cookson, Esq.	8	1 2	540	71·10	...
„ (Langden Brook) ... M	„ „ „ „	8	1 2	556	71·65	...
„ (Whiteholme)	W. K. Wilkinson, Esq.	5	1 3	475 ∇	55·66	171
Skipton (Cringle's Reservoir) ...	J. Watson, Esq., C.E..	5	1 0	760 ∇	34·86	182
„ (Chelker Reservoir) ... M	„ „ „ „	5	1 0	730 ∇	38·76	...
„ (Marton House)	W. Farrer, Esq.	5	0 10	565	44·15	229
∇ „ (Craven Herald Office) ...	E. Townsend, Esq.....	8	2 0	360	38·48	203
„ (Hawthorne Cottage) ...	Leeds & L'pool Canal Co.	8	1 0	380	37·28	...
Gargrave (Banks Hill Bank Newtn)	„ „ „ „	8	1 0	545	32·63	...
„ (Ray Bridge Hill)	„ „ „ „	8	0 10	459	37·68	...
„ (Great Scarnber Hill) ...	„ „ „ „	8	0 9	676	41·89	...
Slaidburn (Dunsop Houses)	W. Stubbs, Esq., C.E..	8	1 0	450 ∇	63·98	196
„ (Middle Knoll)	„ „ „ „	8	2 6	1298 ∇	67·55	...
„ (Brennand)	„ „ „ „	8	1 0	820 ∇	70·16	209
„ (Whitendale)	„ „ „ „	8	1 0	830 ∇	70·43	201
„ (Cabin Hill)	„ „ „ „	8	3 1	1559 ∇	63·35	...
„ (Baxton Fell)	„ „ „ „	8	2 6	1540 ∇	63·65	...
Winterburn (Long Hill)	Leeds & L'pool Canal Co.	8	0 9	705	42·28	...
„ (Brown Hill)	„ „ „ „	8	1 0	961	44·92	...
∇ York (Mount Villas)	J. S. Rowntree, Esq... ∇	5	1 0	70	28·94	231
∇ „ (Burton Croft)	G. Crawhall, Esq.	5	1 0	48 ∇	27·06	191
∇ „ (Cherry Hill)	Mrs. H. Richardson ...	5	1 6	50	27·14	182
∇ „ (St. Paul's Square)	J. H. Simpson, Esq. ...	5	1 0	80	29·21	198
∇ Wetherby (Ribston Hall)	Mr. J. McClelland	5	1 2	130 ∇	36·29	181
Bolton Abbey Estate Office	A. Downs, Esq.....	5	1 2	350	39·24	183
∇ Goldsborough Hall	Mr. R. Goodall	5	1 0	...	33·68	203

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which 91 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
WEST RIDING—(con.)						
d Nun Monkton.....	H. Horsfield, Esq.....	5	1 0	45	28·22	186
Fewston (Swinsty E).....	T. Hewson, Esq., C.E.	8	0 9	460 T	43·30	229
„ („ W)	„ „ „	8	0 9	425 T	43·41	229
„ (Timble Ings)	„ „ „	8	0 9	912 T	43·22	221
„ (Timble)	„ „ „	8	0 9	720 T	37·97	225
„ South	„ „ „	8	0 9	525 T	43·70	229
„ North	„ „ „	8	0 9	525 T	42·05	229
„ (Spinksburn)	„ „ „	8	0 9	636 T	39·03	211
Blubberhouses	„ „ „	8	0 9	575 T	44·79	221
† Harrogate (Ten Acre Reservoir).	E. W. Dixon, Esq., C.E.	8	1 6	620 T	34·41	174
„ (Bonny Cap).....	„ „ „	8	1 6	700 T	36·56	195
„ (Wonderful House)...	„ „ „	8	1 6	740 T	34·83	191
„ (Wilson's Farm)	„ „ „	8	1 6	630 T	36·78	194
† „ (Beaver Dyke Res.)...	„ „ „	8	0 11	575 T	36·20	195
d† „ (Harlow Hill)	G. Paul, Esq.....	5	1 0	480	37·78	203
† „ (Irongate)	E. W. Dixon, Esq., C.E.	8	1 6	455 T	33·40	181
d† „ (The Stray)	Mr. Gledhill	5	1 0	380	34·83	199
d† „ (Park Parade)	„ „ „	5	1 0	400	35·27	199
„ (Scargill)	E. W. Dixon, Esq., C.E.	8	1 0	650	37·77	208
Barden Reservoir	J. Watson, Esq., C.E..	8	1 2	746 T	48·74	255
„ „	„ „ „	5	1 0	746 T	48·94	255
West End (Hard Ing)	T. Hewson, Esq., C.E.	8	0 9	1030 T	46·43	203
„ „ (Meagill Lane)	„ „ „	8	0 9	762	38·75	224
„ „	„ „ „	8	0 9	795 T	44·82	245
„ „ Garden	„ „ „	8	0 9	787 T	50·82	245
„ „ (Rocking Hall)	„ „ „	8	0 9	1225 T	52·09	209
„ „ (Thruscross)	„ „ „	8	0 9	900 T	44·91	236
„ „ („ No. 2)	„ „ „	8	0 9	910 T	39·40	233
„ „ (Lane Head)	„ „ „	8	0 9	938 T	45·16	218
Upper Barden Reservoir	J. Watson, Esq., C.E..	5	1 0	1250 T	46·05	248
Burnsall (Thorpe Fell)	„ „ „	5	1 0	1661 T	44·18	...
„ (Sandbed Beck)	„ „ „	5	1 0	696 T	48·61	...
d „ Rectory	Rev. W. J. Stavert	8	4 5	503 T	51·19	231
Washburn Dale (Ray Bank)	T. Hewson, Esq., C.E..	8	0 9	1137 T	45·86	213
„ „ (High House)	„ „ „	8	0 9	1112 T	45·76	190
„ Head	„ „ „	8	0 9	1275 T	39·12	212
† Knaresborough (Conyngh'm Hall)	Mr. G. Knight	5	1 3	200 T	29·81	156
d „ (Farnham)	R. Elmhirst, Esq.	5	1 0	170 T	31·08	212
d Ripley Castle	Mr. J. Tunnington.....	5	1 0	230 T	34·92	199
d Settle (The Terrace)	J. W. Shepherd, Esq..	8	1 2	525 T	45·31	221
d† Pateley Bridge (Castle Stead) ..	Mr. C. May	5	1 0	410	46·49	212
Grimwith Reservoir	J. Watson, Esq., C.E..	8	1 0	890 T	51·34	230
„ „	„ „ „	5	1 0	893 T	50·24	230
„ (Trunla Hill)	„ „ „	5	1 0	1201 T	40·49	...
Pateley Moor (Smaden Head)	T. Hewson, Esq., C.E..	8	0 9	793 T	35·34	198
d† Malham Tarn	Mr. Coulthard	5	1 0	1296 T	61·62	242
d „ „	„ „ „	8	1 0	1296 T	61·37	242
Dallow Moor (High Skeldon)	T. Hewson, Esq., C.E..	8	0 9	719 T	38·91	195

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
WEST RIDING—(con.)						
Dallow Moor (Harper Hill)	T. Hewson, Esq., C.E..	8	0 9	859 π	41·78	197
d†Ripon (The Red House)	F. D. Wise, Esq.	5	1 0	120	33·95	183
d „ (W.W. Lumley Moor) ...	Mr. G. Craggs	8	0 6	572 \uparrow	44·29	154
Ramsgill (Raygill House)	J. Watson, Esq., C.E..	5	1 0	925 \uparrow	55·86	203
„	„ „ „	5	1 0	450 \uparrow	51·03	208
d†Arncliffe Vicarage	Rev. W. A. Shuffrey...	8	2 6	734 \uparrow	67·75	242
d „ (Amerdale)	J. Hammond, Esq. ...	8	1 6	734	62·84	243
d Ingleton Vicarage	Rev. J. Turner	5	0 6	500	43·11	214
d „ (Kingsdale Head)	T. Middleton, Esq.. ...	5	0 10	994 π	75·09	194
†Nidderdale (High Riggs)	J. Watson, Esq., C.E..	5	1 0	1010 \uparrow	51·00	212
„ (East Gill Head)... M	„ „ „	5	1 0	1710 π	58·76	...
† „ (Rain Stang)	„ „ „	5	1 0	1470 \uparrow	50·11	...
† „ (Angram)	„ „ „	5	1 0	1150 \uparrow	54·79	175
† „ (New Houses)	„ „ „	5	1 0	755 \uparrow	53·74	217
KirkbyMalzeard (Drovers' Inn)..	T. Hewson, Esq., C.E..	8	0 9	633 π	39·08	210
„ „ (Hawset)	„ „ „	8	0 9	820 π	42·92	227
„ „ (Hambleton Hill)	„ „ „	8	0 9	1106 π	50·77	...
„ „ (Bagwith Brae).	„ „ „	8	0 9	697 π	44·20	219
„ „ (Stone & Ears Wham)	„ „ „	8	0 9	1118 π	51·00	...
d Ripon (High Bank, Mickley) ...	Miss Harrison	5	1 6	225 \uparrow	34·06	192
Masham Moor (Benjy Guide) ...	T. Hewson, Esq., C.E..	8	0 9	1412 π	46·52	...
„ „ (W. Somerside)... ..	„ „ „	8	0 9	960 π	44·69	162
„ „ (High Sour Mire)	„ „ „	8	0 9	884 π	43·93	171
„ „ (Low Houses)	„ „ „	8	0 9	693 π	43·60	195
d Oughtershaw Hall	Miss Woodd	8	1 6	1175 \uparrow	76·04	213
d†Sedbergh (Brig Flatts)	J. Handley, Esq.	5	1 0	300 \uparrow	55·90	212
d „ (Akay)	C. E. Taylor, Esq.....	5	1 0	400 \uparrow	58·25	208
d „ (Cemetery)	Mr. J. Anderson	5	1 0	374 π	56·74	204
† „ (Thorns Hall)	Miss Sedgwick	5	1 0	400 \uparrow	53·74	203
EAST RIDING.						
Patrington (Spurn Head)	The Meteor. Council ...	8	1 0	27	20·02	160
d „	W. B. Pugh, Esq.	5	2 6	46 π	22·49	140
d Hedon (The Vicarage)	Rev. J. H. Richardson	5	1 0	...	26·72	205
d†Hull (Pearson Park)	E. A. Peak, Esq.	5	0 6	6	27·40	187
d „ (Springhead)	F. J. Bancroft, Esq. ...	5	1 7	15 \uparrow	24·94	190
d Cottingham (Water Works)	„ „ „	5	1 1	25 \uparrow	26·30	188
„	J. H. Hill, Esq.	8	1 3	26 \uparrow	27·40	168
d Skipwith	Rev. C. D. Ash	5	2 6	25	26·15	195
d Beverley (East Riding Asylum).	Dr. Macleod	5	1 0	175 \uparrow	28·25	204
d „ (Register House)	G. A. Thompson, Esq. ..	5	1 0	22	28·08	198
„ (New Walk)	W. Evans, Esq., C.E...	5	3 0	40	29·24	207
„ (Hull Bridge)	„ „ „	5	2 6	11 π	26·37	162
Market Weighton (Dalton Hall)	Mr. J. Allsop	8	1 4	150 \uparrow	32·03	187
d Hornsea (Elim Lodge)	T. B. Holmes, Esq. ...	8	1 3	30 π	27·04	182
Brandesburton (Hempholm)	W. Evans, Esq., C.E...	5	2 6	11 π	26·23	203
Middleton-on-the-Wolds	Rev. H. D. Blanchard.	5	1 0	156	32·93	151

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which 91 or more fell.
		Diameter	Height above Ground.	Height above Sea Level.	1900	
			ft. in.	feet.	inches.	
EAST RIDING—(con.)						
d Pocklington (Warter)	J. Coxon, Esq.	5	1 10	230 T	32·88	176
Catton Rectory [York].....	Rev. H. L. Puxley.....	5	0 4	50 T	27·04	...
d Driffield (Beverly Road).....	Rev. J. T. Harwood ...	8	8 0	68 T	27·58	187
" (York Road) <i>Snowdon</i> .	W. E. Lovel, Esq. ...	5	1 0	76 T	30·40	171
" (Highfield)	Mr. G.R. Merryweather	5	1 0	80	30·81	180
Wetwang	Rev. E. M. Cole	5	1 0	235 T	30·23	174
d Thixendale.....	Rev. W. H. Fox	10	0 10	425 T	36·06	215
d Lowthorpe (The Elms)	H. Onslow Piercy, Esq.	5	1 0	63 A	28·24	175
Hunmanby (Holly Bank).....	Miss Suter	5	1 2	...	30·11	...
NORTH RIDING.						
d Easingwold (Marton Vicarage) ..	Rev. F. S. Newman ...	5	3 3	200	27·35	121
Terrington Hall.....	Mr. T. Suffield	5	1 5	300 T	29·64	234
d Malton	E.K. Spiegelhalter, Esq.	5	1 0	51	30·26	156
†Old Malton	H. Hurtley, Esq. ...	10	1 0	75 T	27·17	...
d Hovingham (Wigganthorpe) ...	Mr. J. S. Upex	5	1 0	350 T	29·77	206
d Gilling (Grimstone Manor)	W. R. I. Hopkins, Esq.	5	0 8	400 T	31·09	192
d Baldersby	W. Gregson, Esq.	5	1 0	101 T	33·53	201
d Thirsk (Sowerby)	C. M. Swarbreck, Esq..	5	1 0	105 T	26·68	214
d " ("")	A. C. Bamlett, Esq. ...	5	...	...	25·90	150
d Pickering (The Rectory)	Rev. G. H. Lightfoot..	5	0 8	150	29·57	158
d Bedale (Burneston)	Rev. J. T. Hartley ...	5	3 9	110 T	29·34	191
" (Park House).....	Miss M. Greenwood ...	5	1 1	180	31·26	231
†Aysgarth Vicarage.....M	Rev. F. W. Stow	3	1 0	643 A	44·15	...
d " " " " " " " " " "	" " " " " " " " " "	12	1 0	648 A	43·84	206
d†Leyburn (Bolton Hall)	Mr. F. Scrivener	8	1 0	420	37·20	205
d Seamer (Irton)	W. Millhouse, Esq. C.E.	8	1 0	94	33·14	182
d Scarborough (Osgodby).....	" " " " " " " " " "	8	1 0	166 A	30·23	134
Bolby	A. C. Bamlett, Esq. ...	...	...	...	24·56	...
d Bedale (Fencote)	Mr. W. Culverwell ...	5	1 6	125	29·62	179
Northallerton (The Lodge)	W. Stead, Esq., C.E....	8	1 0	131 T	31·23	190
d " (Osmotherley).....	T. Yeoman, Esq.	8	0 8	650	27·43	157
Richmond (The Grove)	G. Roper, Esq.	5	1 3	430 T	42·71	151
Northallerton (Rounton Grange).	The Royal Meteor. Soc.	8	1 0	242	31·02	234
Ravenscar	Rev. A. L. Becker	6	1 0	620 A	32·79	168
d Fylingdales Vicarage	Rev. R. J. Cooper .....	...	...	125	26·83	...
d Ingleby Manor	Lord De Lisle.....	5	0 11	440 T	40·37	202
d " Greenhow Vicarage.....	Rev. J. Hawell ..	5	1 0	448 T	38·02	220
d East Layton	Mrs. Proud	5	1 0	575 T	36·40	141
d Stanwick Park [Darlington]	Mr. W. Higgin	5	1 1	300 T	36·87	198
Forcett Park [""]	Mr. J. Mawson	5	1 0	351 T	35·14	...
d Great Ayton (Easby Hall)	Mr. J. J. Emerson	5	1 0	355	38·45	206
Whitby (Royal Crescent)	T. Newbitt, Esq.	8	1 6	145 T	29·24	142
d " (Mulgrave Castle)	Mr. J. Corbett	5	1 0	410 T	33·82	204
Guisborough (Hutton Hall)	Sir J. W. Pease, Bt., M.P.	5	1 3	400 T	35·41	182
n " (Lockwood Beck Res)	W. I'Anson, Esq., C.E.	8	1 0	632 A	39·35	222
" " " " " " " " " "	" " " " " " " " " "	...	...	...	38·88	...
n Middlesborough (Ormesby)	Mr. W. Sanderson.....	5	1 0	100 T	31·81	227

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level.	1900	
			ft in.	feet.	inches.	
NORTH RIDING—(con.)						
Middlesborough (Albert Park)...	J. M. Parnaby, Esq. ...	8	1 0	30	33·33	205
D Hury Res. [Barnard Castle].....	D. D. Wilson, Esq. ...	8	1 0	866 †	39·18	201
Mickleton	H. S. Wallis & Dr. Mill	8	1 0	...	36·37	...
† „ (Lime Kiln Pasture)M	„ „ „	8	1 0	1175 †	39·75	...
† „ („ „ „)M	„ „ „	8	1 0	1175 †	39·35	...

DIVISION X.—NORTHERN COUNTIES.

DURHAM.

D Darlington (Hurworth Grange)...	Mrs. Backhouse	5	1 0	161 †	34·09	206
D „ (Elcott, Hurworth)...	Rev. W. E. Stewart ...	5	1 0	121 †	34·36	230
D† „ (Cleveland Parade)...	W. W. Willmott, Esq.	5	1 3	160 †	32·25	189
D „ (Public Park).....	Mr. J. Morrison	5	1 0	...	36·59	212
„ (Hummersknott) ...	Mr. J. Short	5	1 0	200	29·18	146
D Barnard Castle (County School)...	E. Wells, Esq.	5	1 6	540 †	37·32	193
D Heighington (Walworth Castle)...	W R Innes Hopkins, Esq	5	0 8	205	31·52	195
Stockton (Rimswell)	W. Anderson, Esq., C.E.	5	1 0	100 †	31·40	199
Bishop Auckland (The Castle)...	Mr. E. Ford	5	0 9	300	35·10	217
West Hartlepool (Lynn Street)...	Mr. H. Lamb	5	63 0	84	23·85	182
D Hartlepool (Hurworth Burn) ...	T. Fenwick, Esq., C.E.	5	0 7	360	37·66	142
D „ (Hart Reservoir).....	„ „ „	8	0 9	164	32·84	165
† Wolsingham	Mr. A. Mitchell	5	1 0	464 †	41·57	208
Eastgate (All Saints' Vicarage)...	Rev. J. G. B. Knight...	5	0 9	768	46·10	225
D Wearhead	C. Stamp, Esq.	5	0 6	1104	60·16	181
Durham Observatory.....	The Meteor. Council ...	12	4 0	340	28·75	197
D Weardale W. W. (Tunstall) ...	R. Askwith, Esq., C.E.	8	1 2	724 †	43·44	193
† „ „ (Waskerley 6)	„ „ „	8	4 2	1229 †	37·85	...
„ „ („ 3)	„ „ „	8	4 6	1433 †	39·12	...
† „ „ („ 4)	„ „ „	8	4 7	1321 †	38·11	...
† „ „ („ 5)	„ „ „	8	4 2	1244 †	37·68	...
D „ „ („)	„ „ „	8	0 11	1179 †	39·46	166
† „ „ („ 2)	„ „ „	8	4 5	1367 †	37·96	...
† „ „ („ 1)	„ „ „	8	4 4	1317 †	37·65	...
D Consett W. W. (Smiddy Shaw)...	„ „ „	8	0 9	1128 †	45·08	225
D Seaham Harbour	Mr. G. H. Aird	8	1 6	141	33·84	188
„ Vicarage	the late Rev. A. Bethune	5	0 6	80 †	34·00	...
D „ Hall	Mr. R. Draper	5	0 6	106 †	35·97	147
D Sunderland (W. Hendon Ho) No. 5	T. W. Backhouse, Esq.	5	1 0	130 †	35·71	181
„ („ „ „) No. 6	„ „ „	5	1 0	130 †	35·97	...
D „ (Fever Hospital)	H. Scurfield, Esq., M.D.	5	1 0	105	34·87	188
D „ (Claxheugh Grove) ...	J. P. Cornett, Esq. ....	...	...	...	36·37	112
„ (The Cedars)	W. F. Vint, Esq.	6	0 6	115	38·25	...
D Gateshead (Eighton Cottage) ...	Miss Favell	5	3 1	515	38·25	198
D Ryton-on-Tyne	J. P. Dalton, Esq.	5	1 0	258 †	36·88	214
„ „	J. W. Smith, Esq., M.D.	5	1 6	...	35·17	...

DIVISION X.—NORTHERN COUNTIES—(continued.)

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which '01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
NORTHUMBERLAND—(con.)						
Wooler	Dr. R. Walker	8	0 10	176 T	41·01	...
D Bamburgh	Mr. W. C. Good	5	1 0	75 L	35·71	180
D Pawston [Coldstream]	B. P. Selby, Esq.	8	1 0	328 T	41·09	220
Beal (Barmoor Castle)	T. Hodgkin, Esq.	8	2 6	400	36·65	163
CUMBERLAND.						
D Millom (Leyfield)	Cedric Vaughan, Esq CE	5	1 2	81 T	51·46	223
D Ravenglass (The Grove)	A. Watt, Esq.	5	1 2	84 T	50·59	221
D Eskdale	Rev. W. Slater Sykes..	5	1 6	150?	68·54	239
D Seascale (Whinthaite)	Dr. Hellon	5	1 0	52 T	44·24	183
Gosforth (Strelfield Hall)	W. H. Watson, Esq. .	10	3 6	200	45·58	...
Sprinkling Tarn	M H. S. Wallis & Dr. Mill	4	0 6	1985	128·40	...
Styehead Tarn	M " " "	4	0 6	1472 T	137·80	...
†The Stye A	M " " "	4	0 6	1077 T	170·90	...
† " " B	M " " "	4	1 0	1077 T	172·00	...
" " C	M " " "	4	1 0	1077 T	174·75	...
" " D	M " " "	4	1 0	1077 T	142·75	...
†Borrowdale (Seathwaite)	M " " "	4	0 6	422 T	131·16	...
" " (")	" " " "	5	1 0	422 T	129·77	...
D*† " " (")	The Royal Meteor. Soc.	5	1 0	420 T	129·54	228
" " (")	S. A. Marshall, Esq. ....	...	...	...	129·94	...
Ullscarf	M G. H. Hill, Esq., C.E..	7	1 8	2100 T	122·80	...
D St. Bees	Rev. W. H. Alderson..	5	1 0	50	47·65	182
D Cleator (The Floss)	D. Ainsworth, Esq. ...	5	1 11	208 T	58·27	185
" " Moor Water Works ...	R. Robertson, Esq.	5	1 3	395 T	62·14	159
†Helvellyn (Birkside)	M G. H. Hill, Esq., C.E..	7	1 3	1900 T	96·50	...
†Wythburn	M " " " "	7	1 4	580 T	98·30	...
D Borrowdale Vic.=Rosthwaite ...	Rev. E. A. Penson.....	5	1 0	330 T	108·51	222
D†Buttermere (Hassness)	Mr. S. Stewart	5	1 0	355	115·30	232
D†Borrowdale (Grange)	Mr. Threlkeld	5	0 9	271 T	103·30	207
Armboth Fells (The Pewitts).....	G. H. Hill, Esq., C.E..	7	1 6	1650 T	98·60	...
Helvellyn (Whiteside)	" " " "	7	1 6	2100 T	85·50	...
Thirlmere (Dale Head Hall) ...	" " " "	7	1 5	620 T	89·80	...
D Winder	Mr. W. M. Thompson..	8	22 0	578 T	54·60	154
D†Whitehaven (Irish Street)	Dr. Welby I'Anson ...	5	1 1	21 T	48·66	213
D†Keswick (Barrow House)	Miss E. G. Langton ...	8	0 6	282 T	76·70	235
Distington (Gilgarran)	Mr. A. Kydd	5	4 9	470 T	49·63	208
Ullswater (Hallsteads)	S. A. Marshall, Esq. ...	5	2 0	497 T	62·29	...
Keswick (Deer Close)	John Marshall, Esq. ...	7	1 9	300 T	66·77	227
" (Derwent Island) <i>old g.</i>	" " " "	5	0 7	280	62·56	233
" " " <i>new g.</i>	" " " "	5	0 6	290	60·42	233
D " (Eskin Place)	J. Postlethwaite, Esq..	8	6 4	298 T	64·93	194
D† " (Bank)	Mr. R. W. Mayson ...	5	1 0	265 T	60·81	209
D† " (Shu-le-crow)	A. Mitchell Dawson, Esq.	5	0 7	296 T	67·13	225
D " (Portinscale)	A. C. Allen, Esq.	8	1 0	286 T	64·71	227
D Cockermouth (Ullock)	J. H. Walker, Esq. ...	5	1 3	313 T	60·52	223
Workington (Winscales)	Mrs. Trench	5	1 0	440 T	46·83	187
Cockermouth (Whinfell Hall)...	Mrs. F. M. Peile	5	2 0	265 T	58·88	217

DIVISION X.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which -01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft. in.	feet.	inches.	
CUMBERLAND—(con.)						
D Cockermouth (Brandlingill)	Col. F. R. Sewell	5	1 0	320 ∇	65·80	217
D Bassenthwaite (Bassenfell)	S. G. Rathbone, Esq....	8	1 0	384	47·39	215
D† Cockermouth (Higham)	Miss Hoskins	5	1 0	478 ∇	51·18	207
D „ (Broughton Grange)	G. S. Wilson, Esq. ...	5	1 3	209 ∇	48·71	203
Penrith (Nandana)	G. Varty-Smith, Esq... 5	3 0	650 ∇	37·24	235	
† „ (Fell Lane, Fir Bank) ..	T. Lester, Esq.	5	1 0	575 ∇	38·07	203
„ (Greystoke)	H. Walker, Esq.	5	1 3	650	46·44	...
„ (Newton Reigny)	The Meteor. Council ...	...	...	...	42·42	198
D „ (Greystoke, Belle Vue) ..	Mr. M. Rowe	5	4 0	680 ∇	41·60	237
„ (Ennim)	Mrs. Riley	8	0 8	660	43·83	189
D Bassenthwaite (Armathwaite Hall)	T. M. Hartley, Esq. ...	8	1 0	...	47·02	238
Maryport (Netherhall)	H. P. Senhouse, Esq... 8	0 6	27 ∇	44·33	188	
D Penrith (Nunwick Hall)	Mrs. Heywood Thompson	5	1 0	298 ∇	36·32	211
D Melmerby	Rev. W. Y. Craig	5	0 6	583 ∇	39·40	188
D Aspatria (Brayton Hall)	Mr. W. Stewart	8	2 0	200	50·85	212
D Wigton (Brookfield)	J. J. Jopling, Esq....	5	0 9	124 ∇	44·94	223
Wreay Vicarage	Rev. A. R. Hall	5	2 0	310 ∇	34·57	192
Geltsdale	C. B. Newton, Esq., C.E.	5	1 2	924 ∇	39·54	...
† Carlisle (Cemetery)	S. Cartmell, Esq.	8	3 0	114 ∇	39·56	218
„ (Rickerby)	Miles MacInnes, Esq... 8	1 0	52 ∇	32·28	...	
„ (Stanwix)	B. Scott, Esq.	8	1 6	100 ∇	37·48	205
D „ (Newby Grange)	T. H. Hodgson, Esq....	5	0 8	64 ∇	30·59	199
„ (Scaleby)	The Royal Meteor. Soc.	5	1 0	112	38·95	234
D Brampton (Denton House)	Mr. J. Charlton	5	1 5	541 ∇	39·89	235
„ („ „) ... M „ „	„ „	5	1 2	541 ∇	39·96	...
WESTMORELAND.						
Kirkby Lonsdale	J. R. Picard, Esq.	7	0 8	215 ∇	52·86	...
D „ „ (Barbon Manor)	A. Ford, Esq.	5	1 3	650 ∇	58·51	226
D „ „ („)	Miss Wilkinson	5	1 0	310 ∇	57·11	193
D Milnthorpe (Beathwaite, Levens)	W. H. Crewdson, Esq..	5	1 3	120 ∇	56·69	201
Kendal (Natland Vicarage)	Rev. W. Kewley	5	1 6	...	47·69	210
D „ (Helm View)	T. N. Ritson, Esq., C.E.	5	1 0	140 ∇	60·83	196
D „ (Holmeroft)	R. Rhodes, Esq.	5	1 3	176 ∇	56·94	205
D „ (Ivy Garth)	R. J. Nelson, Esq.	5	1 6	146 ∇	57·34	200
„ (Ellergreen)	the late J. Cropper, Esq.	5	1 6	270 ∇	67·49	196
D Bowness (Fallbarrow)	H. E. Rawson, Esq....	8	1 0	135 ∇	73·29	202
Windermere	S. A. Marshall, Esq....	...	...	...	70·60	...
D Ambleside (Skelwith Bridge) ...	A. J. Adams, Esq.	5	1 8	190 ∇	97·06	211
Little Langdale (Fell Foot) ...	M. S. A. Marshall, Esq....	5	2 2	380	116·25	...
D Ambleside (Gale House)	G. A. Johnston, Esq. M.D.	5	1 0	250 ∇	85·74	223
D† „ (Lesketh Howe)	Mrs. Benson	5	2 6	175 ∇	89·28	241
D Elterwater Hall	Major Robinson	5	1 1	243	93·88	226
D Dungeon Ghyll	S. A. Marshall, Esq. ...	5	0 9	310	111·63	248
„ „ „	M „ „ „	5	1 6	311	107·71	...
Mickleden	M „ „ „	5	1 6	490	119·66	...
D† Grasmere (High Close)	F. M. T. Jones Balme, Esq	8	0 9	553 ∇	90·17	221
D „ (Pavement End)	T. A. Green, Esq.	5	1 0	214 ∇	97·65	233

DIVISION X.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft. in.	feet	inches.	
WESTMORELAND—(con.)						
d Ravenstonedale (Brownber)	J. Fothergill, Esq.	5	3 0	826 T	47·88	194
Orton Vicarage	Rev. E. Holme	5	3 6	770 T	62·52	...
d† Kirkby Stephen (Redmaine Ho.)	Mrs. T. Mason	5	1 0	574 T	46·40	201
Fairfield	M T. A. Green, Esq.	5	1 0	2860 T	95·55	...
"	M " " "	8	1 0	2860 T	96·84	...
d Shap (Vicarage)	Mrs. Whiteside	5	1 0	854 T	51·49	213
Grisedale (Ruthwaite Lodge) M	Mr. A. Milne	8	1 6	1750	113·23	...
d† Patterdale Hall	" "	7	1 3	490 T	94·84	237
" (Greenside Mine)	W. H. Borlase, Esq. ...	7	1 6	1000 T	97·04	...
Appleby (Ormshed)	Rev. J. Brunskill	5	4 0	480	37·20	225
d " (Castle Bank)	C. R. Rivington, Esq. ...	5	1 2	440 T	38·82	223
Ullswater (Swarth Fell)	M H. S. Wallis & Dr. Mill	5	1 3	1000 T	53·00	...
" (Sharroa Bay)	Mr. G. Robinson	5	0 7	600	50·83	...
d Great Strickland (Greencroft) ...	Mrs. Whiteside	5	2 0	648	44·94	214
Lowther Castle [Penrith]	Mr. F. Clarke	8	3 0	750 T	40·96	197

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

MONMOUTH.

d Rumney (Witla Court)	H. Heywood, Esq.	5	1 0	176	43·07	223
d† Marshfield (Llwynarth)	F. G. Evans, Esq.	5	1 1	72 B	40·96	191
Caldicot Level (Porton)	Togarmah Rees, Esq. CE	5	1 3	27 T	31·63	170
Portskewett (Sudbrook)	W. K. Laurence, Esq. CE	8	0 10	22 T	34·38	168
" (Caldicot Hall)	Rev. E. T. Williams ...	9	1 3	40	34·00	...
Newport (Friar Street Yard) ...	The Meteor. Council ...	...	...	...	45·33	188
" (Ynis-y-bro)	" " "	5	1 0	115	40·15	191
" (Pantyreos Res.) .....	" " " .....	...	...	...	59·54	182
d " (W. W., New Mills) ...	Baldwin Latham Esq CE	...	...	371 T	48·65	225
d " (" Llanvaches) ...	" " " .....	...	...	514 T	43·86	223
d " (Wentwood) .....	" " " .....	...	...	481	49·68	228
Chepstow (Mounon Road Res.)	F. Hammond, Esq. ...	5	1 0	312 T	39·20	169
d " (Shirenewton Hall) ...	Hugh L. P. Lowe, Esq.	8	1 0	531 T	47·14	197
d " (Piercefield Park)	H. Clay, Esq.	5	1 6	310	43·18	177
d " (Itton Court)	E. Curre, Esq.	8	4 6	390	43·98	141
d Llanfrechfa Grange	F. J. Mitchell, Esq. ...	5	4 0	326 T	48·09	192
d Tredunnoch	Rev. C. T. Salusbury ...	5	2 3	170 T	42·23	182
d Newport (W. W., Newchurch) ...	Baldwin Latham Esq CE	...	...	496 T	50·33	224
Abersychan (The Hawthorns) ...	J. W. Mulligan, Esq, MD	5	1 0	755 T	54·60	212
d Tredegar (The Willows)	G. A. Brown, Esq. ...	8	1 0	1024 T	67·58	193
d Monmouth (School House)	E. H. Culley, Esq. ...	5	1 4	76 T	39·69	197
d " (The Hendre)	Mr. Coomber	8	1 0	176 T	35·16	185
Abergavenny (Larchfield)	Dr. Glendinning	5	1 0	240 T	41·77	173
" (Dyne House)	Dr. Steel	5	1 5	220 T	44·19	196
" (" ")	M " "	5	1 5	220 T	41·20	...
d " (The Chain)	W. Baker Gabb, Esq. ...	5	1 3	300	44·22	191
Llantillio Pertholey	Mr. J. Winfield	5	1 0	...	41·93	...

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which 101 or more fall.
		Diameter	Height Above Ground.	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
MONMOUTH—(con.)						
Llanvihangel Court	Col. Sturt	5	2 4	508 A	41.52	182
" "	" "	5	2 4	508 A	43.52	...
D Monmouth (Pentwyn)	Rev. Canon Harding...	5	1 0	191 B	34.75	176
GLAMORGAN.						
D Barry (Park Road)	J. Bell, Esq.	5	4 0	191 A	37.38	188
* Cowbridge (Fonmon Castle) ..	O. H. Jones, Esq.	8	1 2	130	38.38	172
D Barry W. W. (Biglis)	E. W. Waite, Esq., C.E.	5	1 0	20 T	36.65	180
" " (Dynas Powis Res.)	" " " "	5	1 0	165 T	40.03	195
Cardiff (Cogan Pill, Llandough) ..	C. H. Priestley, Esq. C.E.	5	1 0	122 A	38.33	202
D " Castle	Mr. A. Pettigrew	5	1 0	38 A	45.05	173
D " (Roath Park)	E. Walford, Esq., M.D.	5	0 4	50	41.90	192
D " (Ely)	C. H. Priestley, Esq. C.E.	8	1 0	53 A	44.79	201
D " (Lisvane)	" " " "	5	1 0	150	39.02	194
" (New Filters, Heath)	" " " "	5	1 0	132	42.31	194
" (Llanishen Res.)	" " " "	5	1 0	155	41.52	194
Cowbridge (Ash Hall)	E. Tudor Owen, Esq.	8	1 2	315 A	47.58	204
D Llantrisant (Talygarn)	G. L. Clark, Esq.	5	4 3	250	63.02	206
D Oystermouth (Newton)	Rev. S. Jones	5	0 9	279 T	49.53	202
D Port Talbot (Margam W. W.) ..	Mr. W. L. Harpur	5	1 0	530	63.06	213
Gilfach Goch (Gilfach House) ..	W. W. Hood, Esq.	8	5 6	700 T	75.74	185
D Pontypridd (The Reservoir)	W. Jones, Esq.	5	1 0	300	63.88	181
" (Maesderwen, Graig)	T. Bowen, Esq.	5	10 0	425 T	53.78	200
D Swansea (Le Mayals)	J. E. Stevens, Esq.	8	1 6	230 T	52.53	162
" (Killay House)	M. B. Williams, Esq.	5	0 6	265	52.72	160
D " (The Knoll)	E. H. Perkins, Esq.	8	1 0	150 T	51.18	206
D " (Glanmor Crescent) ..	T. Travers Wood, Esq.	5	1 0	235 A	50.96	205
Llwynypia (Glyncornel)	W. W. Hood, Esq.	10	4 0	500 T	95.96	203
Briton Ferry	H. A. Clarke, Esq.	5	1 0	33 A	51.66	177
D Morriston (Glanravel)	J. Naysmith, Esq.	5	1 0	53 A	54.62	189
D Neath	E. C. Pole, Esq.	5	1 0	204 A	54.86	203
D " (Fairy Land)	Major Green	5	1 9	175 A	53.25	210
D† Glyncorwg	T. F. Brown, Esq., C.E.	5	4 6	717 B	91.88	204
D Cwmaman	W. J. Heppell, Esq.	5	2 3	690 T	87.52	253
D Rhondda (Pont Lluest Wen Cott.)	W. Jones, Esq.	5	1 0	1255	67.35	193
D Mountain Ash (Maesydderwen) ..	M. Morgan, Esq.	5	1 0	483 A	67.17	200
D " " (Darranlas Res.) ..	J. Williams, Esq.	5	1 0	552	74.24	215
" " (Clydach Res.) ..	" " " "	5	1 0	937	86.68	201
D Treherbert (Bute Colliery)	Sir W. T. Lewis, Bt.	5	1 0	670	71.98	178
D† " (Tyn-y-waun)	T. Constance, Esq.	5	1 0	801	92.51	217
† " ()	" " " "	5	1 0	801	94.90	...
D Gorseinon (Penllergaer)	Sir J. T. D. Llewelyn, Bt.	5	3 0	240 T	53.10	187
Aberdare (The Mardy)	Sir W. T. Lewis, Bt.	5	2 0	431 A	62.92	194
D† " (Abernant)	Evan Jones, Esq.	5	4 6	430	61.62	183
D Felindre (Lliw Reservoir)	R. H. Wyrill, Esq., C.E.	8	1 3	426 T	58.41	204
Merthyr (Pentrebach)	V. J. Parry, Esq.	5	1 0	488 T	67.50	171
D Dowlais (Gwernllwyn)	R. C. Harrison, Esq.	5	1 6	1084 A	63.01	199
D Ystalyfera (Wern Schools)	Mr. J. Williams	5	1 3	240 T	71.33	205

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which -01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
CARMARTHEN.						
D Llanelly (Old Market Place) ...	G. Watkeys, Esq., C.E.	5	10 0	35 T	48·07	184
D „ (New Road)	J. F. Young, Esq.	5	0 8	53 T	43·42	186
D „ (Cwmlliedi W.W.)	G. Watkeys, Esq., C.E.	5	3 0	240 T	53·52	230
D Carmarthen (The Friary)	L.M. Bowen-Jones, Esq.	5	1 5	62 T	55·53	211
Llandilo (Dynevor Castle)	Rt. Hon. Lord Dynevor	8	1 0	202 T	67·83	213
D Llandovery	J. Watkins, Esq.	5	1 0	217 T	52·81	233
D „ (Toun)	F. H. Perkins, Esq. ...	5	1 2	230 T	53·21	218
D Llanwrda (Dolaucothy)	Gen. Sir J.H. Johnes, GCB	5	2 6	496 T	62·99	226
Llandovery (Neuaddfawr)	R. Campbell Davys, Esq.	5	1 0	400 T	74·09	128
PEMBROKE.						
Pembroke (Stackpole Court)	Rt. Hon. Earl of Cawdor	6	1 6	60 T	42·47	204
Tenby	R. J. Truscott, Esq. ....	...	...	66 T	44·24	225
St. Ann's Head	The Meteor. Council ...	8	0 8	150	40·57	218
Haverfordwest (Haroldston Ho.)	Capt. C. H. Young ...	5	1 6	6 ?	43·14	145
D „ (High Street) ...	E. P. Phillips, Esq. ...	5	1 0	95 T	50·06	211
D St. David's	Dr. W. P. Probert	5	1 0	216	36·94	213
D Llanrhian Vicarage	Rev. Prebendary Lewis	5	1 0	295 T	41·06	204
D Castle Malgwyn [Llechryd] ...	Mr. Baldwin	5	1 0	...	43·38	212
CARDIGAN.						
Strata Florida (Hafod)	T. J. Waddingham, Esq.	5	1 0	580 T	54·74	..
Aberystwith (Castle Grounds) ...	A. Thomas, Esq.	8	1 0	59	29·54	205
„ (N. Parade)	„ „	8	1 0	18	39·04	205
D „ (Gogerddan)	Sir Pryse Pryse, Bart..	5	1 0	80 B	48·56	179
BRECKNOCK.						
D† Nanthir Reservoir [Aberdare] ..	O. Williams, Esq., C.E.	5	1 0	860 T	64·09	231
„ „ „ [„ „] M	„ „ „ „ „ „	5	1 0	860 T	64·66	...
Ebbw Vale Waterworks	T. J. Thomas, Esq., C.E.	5	1 0	1413 T	60·20	217
D† Taff Fechan (Pentwyn Res.) ...	T. F. Harvey, Esq., C.E.	5	1 0	1120	70·09	221
† „ „ „ „ „ „ „ M	„ „ „ „ „ „	5	1 0	1120	69·83	...
† Cardiff WW (Cwm Taff Fawr No 5)	C. H. Priestley, Esq., C.E.	5	1 0	1143 T	72·28	...
„ „ „ (Storey Arms)	„ „ „ „ „ „	5	1 0	...	78·62	...
† „ „ „ (Cwm Taff Fawr No 1) M	„ „ „ „ „ „	5	1 0	2350 T	84·91	...
„ „ „ (Cantref Res)	„ „ „ „ „ „	5	1 0	1120	74·90	214
„ „ „ (Beacons Res., No. 6)	„ „ „ „ „ „	5	1 0	1328 T	85·51	218
„ „ „ (Nant Penig)	„ „ „ „ „ „	5	1 0	...	90·59	...
D† Taff Fechan (Neuadd Res.) No. 1	T. F. Harvey, Esq., C.E.	5	1 0	1462	75·73	208
† „ „ „ „ „ „ „ No. 1 M	„ „ „ „ „ „	5	1 0	1462	75·22	...
D „ „ „ „ „ „ „ No. 4	„ „ „ „ „ „	5	1 0	1487	85·96	208
„ „ „ „ „ „ „ No. 2 M	„ „ „ „ „ „	5	1 0	1993	84·62	...
„ „ „ „ „ „ „ No. 5 M	„ „ „ „ „ „	5	1 0	1515	89·70	...
„ „ „ „ „ „ „ No. 7 M	„ „ „ „ „ „	5	1 0	2017	89·05	...
„ „ „ „ „ „ „ No. 8 M	„ „ „ „ „ „	5	1 0	1723	88·18	...
„ „ „ „ „ „ „ No. 3 M	„ „ „ „ „ „	5	1 0	1843	62·72	...
„ „ „ „ „ „ „ No. 9 M	„ „ „ „ „ „	5	1 0	1997	69·16	...

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
BRECKNOCK—(con.)						
Taff Fechan (Neuadd Res.) No. 6M	T. F. Harvey, Esq., C.E.	5	1 0	2099	98.38	...
Crickhowell (Glanusk Park).....	Sir J. R. Bailey, Bt.	5	1 0	290	48.13	211
D " (Gwernvale)	E. Pirie Gordon, Esq. ...	5	1 0	393	46.66	161
" (Penmyarth)	S. H. Cowper Coles, Esq. ...	5	1 0	330	43.82	204
Talybont (Cui)	H. Jones Williams, Esq. ...	5	1 0	490	52.30	...
† Cantreff Rectory	Rev. J. J. Evans	5	1 0	630	53.59	180
"	"	5	1 0	630	51.18	...
D Llanfrynach (Tymawr)	Lt.-Col. R. D. G. Williams	5	1 0	450	47.31	188
D† Brecknock (Llandefaelog-fach) No. 1	Rev. W. Williams	5	1 0	660	43.51	212
D " (") No. 2	"	5	1 0	660	44.61	213
Hay (Gwernyfed Park)	Major Wood	5	1 6	375	37.13	201
Llanwrtyd Wells (Dolecoed) ...	R. Campbell Davys, Esq. ...	5	1 0	680	66.07	198
D Llangammarch Wells	Dr. W. Black Jones ...	8	1 0	551	52.90	215
D Builth (Tyn-y-berllan)	Dr. Baldock Fry	5	1 0	430	39.44	183
D† Abergwesyn Vicarage	Rev. J. Jones	5	1 0	904	72.85	233
D Brynwrn Hall [Newbridge] ...	Rev. W. Clifton Mogg. ...	5	1 6	520	43.02	198
Llysdyham ["] ...	Mrs. Lister Venables ...	5	1 3	640	45.34	219
RADNOR.						
Woodlands [Glasbury]	A. Battiscombe, Esq.	5	3 0	300	40.26	194
D Welfield [Builth]	E. A. Thomas, Esq. ...	5	1 10	740	40.37	143
D Caerwnnon [Builth]	Com. A. Evan-Thomas. ...	5	1 0	530	40.45	200
Disserth Rectory	The Meteor. Council ...	5	1 0	712	45.62	214
Llandrindod Wells	Dr. Bowen Davies .....	...	...	...	40.38	203
D New Radnor (Ednol)	Mr. W. Jones	5	1 0	950	49.25	204
Llandegley (Gwern-i-Arglwydd)	Mr. J. Campbell	5	2 0	1000	39.70	183
D Pen-y-bont	Mr. J. Hamer	5	3 6	788	39.23	202
† Rhayader (Nant-y-car)	G. M. Yourdi, Esq., CE	5	1 0	1545	76.00	...
D " (Tyrmynydd)	"	5	1 0	832	60.63	218
D† " (Nantgwillt) ...old g.	"	5	1 0	768	58.90	209
D† " (") ...new g.	"	5	1 0	764	60.54	209
† " (Bwlchyrhendre) ...M	"	5	1 0	1585	62.40	...
D† " (Claerwen)	"	5	1 0	1250	63.50	201
" Vicarage	Rev. L. H. Evans	5	1 0	720	47.79	169
† " (Pryddellau)	G. M. Yourdi, Esq., C.E. ...	5	1 0	1710	62.20	...
D " (Abergwyngy)	"	5	1 0	1200	60.15	197
Knighton	Dr. T. W. Graves	5	1 2	670	39.42	...
" (Ystrad House)	E. P. Fairbairn, Esq. C.E. ...	5	1 0	564	38.71	...
MONTGOMERY.						
† Llangurig (Esgair Clochfan) M	H. S. Wallis & Dr. Mill	5	1 2	1330	48.60	...
† " (Ystrad-olwyn-fawr) ...M	"	8	1 0	950	45.20	...
" (") ...new g.	"	5	1 0	950	42.00	...
Llandinam (Plas Dinam)	The Meteor. Council ..	5	4 0	504	36.61	223
D Newtown (Dolfor)	W. B. Pugh, Esq.	5	2 6	1027	32.55	191
D† Churchstoke (Mellington Hall) ..	P. Wright, Esq.	5	1 6	540	32.64	201
+ " (") M	"	5	1 6	540	32.78	...

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which '01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
MONTGOMERY—(con.)						
d Welshpool (Pool Quay Vic.).....	Rev. R. J. Roberts ...	5	1 0	230 ∇	28·77	209
Garthbibio (Bwlch Tomlyd).....	M H. S. Wallis & Dr. Mill	5	1 0	1370 ∇	109·70	...
Meifod (Tan-y-fron).....	A. George, Esq.	5	1 0	310	31·19	...
d Lake Vyrnwy.....	E. D. Marten, Esq. C.E.	5	0 7	770 ∇	57·47	201
FLINT.						
Hawarden	Gt. Central R. Co.....	9	3 6	35	30·18	191
† Flint (Soughton Hall, Northop).	J. Eldon Bankes, Esq..	5	1 0	418	35·65	196
Bodfari (Henblas)	Mrs. Scott Bankes	5	1 0	283 ∇	31·71	...
St. Asaph (Nantlys).....	P. P. Pennant, Esq. ...	5	1 0	173 ∇	30·09	168
Bagillt Lead Works	I. Roberts, Esq.....	5	1 0	20	37·17	...
d Rhyl (Sedgley House)	W. T. Girdlestone, Esq.	5	2 6	21 ∇	26·32	165
Prestatyn (Edlestone House) ...	T. J. Scott, Esq.	5	0 6	30	32·86	165
DENBIGH.						
d Llangadwaladr (Penygwely Res.)	G. W. Lacey, Esq., C.E.	5	1 0	1094	43·24	173
Wrexham (Pack Saddle Res.) ...	F. Storr, Esq.	5	0 9	370 ∇	34·52	174
„ (Cae Llwyd Res.) ...	„ „	8	0 9	918 ∇	40·31	185
„ („ „ „) ...	„ „	5	0 9	918 ∇	40·11	185
d „ (Broughton).....	J. Hall, Esq.	5	1 0	500 ∇	36·36	193
Gresford (Trewythen)	Miss Howell Evans ...	5	1 0	350	28·16	184
d Rossett (Trevalyn Hall)	Capt. Griffith Boscawen.	5	1 0	58 ∇	25·98	188
Nantglyn (Pant-y-maen)	W. Barker, Esq.	8	1 0	1320 ∇	54·13	...
d Llangerniew (Hafodunos).....	Col. Sandbach	5	1 0	512 ∇	45·76	177
Llanefydd (Rhyl W.W., S.)... M	L. G. Hall, Esq., C.E..	5	1 0	600	35·14	...
„ („ „ W.)... M	„ „ „	5	1 0	580	34·23	...
„ („ „ E.)... M	„ „ „	5	1 0	570	31·46	...
d „ (Plas Uchaf Res.) ...	„ „ „	5	1 0	485	29·22	141
d Llangyhanfal (Plas Dran)	Col. C. C. Bramhead...	5	1 0	419 ∇	34·20	197
Denbigh (Llyn Bran, Bylchau)..	W. Barker, Esq.	8	1 0	1428 ∇	55·43	...
d „ (Garn).....	W. D. W. Griffith, Esq.	5	1 0	447 ∇	38·01	201
Trefnant (Maes Elwy)	Major Birch	5	2 0	170 ∇	32·20	159
Colwyn Bay (Bryn Euryn)	Mr. T. Hutchings	5	1 0	125 ∇	31·36	189
„ „ (Abergele Road) ...	H. Nuttall, Esq., M.D.	...	...	50	28·69	179
MERIONETH.						
d Towyn (Peniarth)	W. R. M. Wynne, Esq.	9	1 0	25	47·92	174
d Llanbedr (Minafon)	H. G. Hollingworth, Esq.	5	1 2	33 ∇	45·69	209
d Bala (Eryl Aran)	Mrs. Burton	8	1 0	590 ∇	52·93	205
d Llanderfel (Palé Gardens)	Mr. T. Ruddy.....	8	1 0	606 ∇	49·10	221
Arenig (Bodrennig)	E. Jones, Esq.....	5	1 0	1100 ∇	65·40	223
Rhiwbryffdir = Oakley Quarries..	Mr. R. Roberts	5	10 0	1100	105·77	229
d Corwen (Rhug Gardens)	Mr. J. Bennett	5	1 0	500	39·49	194
CARNARVON.						
d* Llanystumdwy (Talarvor)	Dr. J. Roberts	5	2 0	49 ∇	38·43	185
Llanllyfin (Rhydlydan).....	E. Evans, Esq.	5	1 0	751 ∇	80·96	223
Dolwyddelan (Upper Nhadog) No. 2	J. R. Gethin Jones, Esq.	5	1 0	1600	157·95	...

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

STATIONS.	AUTHORITIES.	Diameter	Rain Gauge.		Depth of Rain. 1900	Days on which ·01 or more fell.
			Height Above Ground.	Height Above Sea Level		
			ft. in.	feet.	inches.	
CARNARVON—(con.)						
Dolwyddelan (Lower Nhadog) No. 5	J. R. Gethin Jones, Esq.	5	1 0	1100	148·54	...
" (Cwm Edno) No. 14	" " "	5	1 0	1100	129·46	...
" (Tynyddol) ... No. 1	" " "	5	1 0	600	111·80	...
Llandwrog (Glynllivan Park) ...	Hon. F. G. Wynn.....	5	1 0	100 †	46·23	...
" (" Nursery)	" "	5	1 0	200 †	48·71	...
" (" Garden).	" "	5	1 0	100 †	44·10	...
" (" Fort) ...	" "	8	1 0	220 †	43·54	...
" (Bodfean)	" "	5	1 6	168 †	48·76	...
Snowdon (Llydaw)..... No. 12	J. R. Gethin Jones, Esq.	5	1 0	1450	193·50	...
" (Cwm Glas)..... No. 4	" " "	5	1 0	2200	173·60	...
D Bettws-y-coed (Aberllyn).....	Mssrs Brunner Mond & Co	5	5 6	674 †	42·13	184
Idwal Lake, South End, No. 6...	J. R. Gethin Jones, Esq.	5	1 0	1250	120·20	...
Capel Curig (Lake Cowlyd)	T. B. Farrington Esq. CE	8	1 3	1168 †	84·90	...
Carnarvon (Belan Fort).....	Hon. F. G. Wynn.....	5	1 0	26 †	35·20	...
Eigiau Lake, No. 3	J. R. Gethin Jones, Esq.	5	1 0	1650	112·53	...
" (Caedryn) ... No. 8	" " "	5	1 0	1250	116·87	...
D Llanbedr-y-Cennin (Plasdulyn).	E. P. Stephenson Esq. CE	8	1 0	509 †	59·74	199
D " " (Llyndulyn)	" " "	8	1 6	1622 †	87·57	199
D Bangor (Glasinfryn).....	J. R. Gethin Jones, Esq.	5	1 0	200	45·99	189
" (Bethesda).....	The Meteor. Council ...	...	...	...	59·54	...
D " (Penrhyn Castle)	Mr. W. Speed.....	6	1 0	150	38·65	206
" (" " Gdns.)	" "	6	1 0	150	38·04	...
D Llanfairfechan	Mr. W. Timmins	5	1 0	144	40·76	212
D† Llandudno	Mr. W. Little.....	5	1 0	72 †	32·78	194
ANGLESEA.						
Llandwyn Island	Hon. F. G. Wynn	5	1 0	40 †	19·53?	...
D Llangadwaladr (Bodorgan)	Mr. W. Pilgrim.....	8	1 0	...	37·18	178
Llangristiolus (Lledwigan)	T. Winter, Esq.....	5	1 0	100	36·24	175
Penmynydd Vicarage	Rev. H. D. Owen	5	5 0	300	36·53	206
Holyhead	The Meteor. Council ...	8	...	...	37·37	203
Llanerchymedd Llwydiarth Esgob	T. Prichard, Esq.	5	1 0	175 †	43·11	226
D Lligwy	Rt. Hon. Lord Boston..	5	1 0	180	40·76	170
ISLE OF MAN.						
Castletown (Langness)	Bd. of Northern Lights ...	...	...	...	33·60	103
Derbyhaven	A. W. Moore, Esq.....	5	1 0	20	38·53	...
Santon Vicarage .....	" " " .....	...	...	250	33·08	172
D Douglas (Woodville)	H. Story, Esq.	8	1 0	160 †	46·36	211
" (Elsinore)	A. W. Moore, Esq. ....	...	...	...	46·65	221
" (Baldwin) .....	" " " .....	...	...	...	63·29	...
" (Cronkbourne)	" " "	8	0 10	138 †	48·04	204
" (Clype, Onchan)	" " "	8	1 0	439 †	52·07	...
Ramsey	" " "	8	1 3	18	54·38	...
Point of Ayre.....	Bd. of Northern Lights ...	...	...	...	31·05	106
ISLES OF SCILLY.						
St. Mary's	The Meteor. Council ...	8	1 6	77 †	34·14	203
†Tresco Abbey	T. A. D. Smith, Esq... 11	11	3 0	40	35·00	196

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above SeaLevel	1900	
			ft. in.	feet.	inches	
JERSEY.						
St. Helier (St.Louis Observatory)	Rev. M. Dechevrens ...	8	5 0	180	30·22	178
St. Aubins	The Meteor. Council ...	8	1 0	...	34·63	211
GUERNSEY.						
St. Martin's (Les Blanchés)	B. T. Rowsell, Esq....	5	1 0	310 1	34·74	199
L'Erée (Claire Mare)	J. J. Carey, Esq.	5	1 0	48 1	29·65	179
St. Peter Port (Beaulieu)	A. Collenette, Esq. ...	5	1 0	190 1	37·90	186
„ „ (Villa Carey).....	Dr. Carey	8	1 2	180	32·63	182
„ „ („ „)... M	„ „	5	1 2	180	32·37	...
L'Ancrese	A. Collenette, Esq.....	5	1 0	33 1	32·21	171

S C O T L A N D.

DIVISION XII.—SOUTHERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which 41 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft. in.	feet.	inches.	
WIGTON.						
Mull of Galloway	Bd. of Northern Lights	...	...	...	31·68	170
D Whithorn (Cutroach)	J. G. Martin, Esq.	5	0 6	120 †	40·80	200
D Garliestown (Galloway Ho.)	Mr. J. Day	5	4 6	20 †	45·52	170
D Stoneykirk (Ardwell House)	Sir M. J. Stewart, Bt. MP	8	3 9	107 †	40·94	186
Loch Ryan	Bd. of Northern Lights	...	...	...	33·56	172
Corsewall	„ „ „	...	3 4	22 †	32·21	160
KIRKCUDBRIGHT.						
Little Ross	Bd. of Northern Lights	...	3 3	130 †	31·47	132
Auchencairn (Torr House)	W. Ovens, Esq.	5	0 8	50	54·61	...
Dalbeattie (Colvend Manse)	Rev. Dr. Fraser	5	1 6	120 †	45·11	...
Gatehouse (Cally)	Dr. Buchan, F.R.S. ...	5	1 0	120	67·12	199
Dalbeattie (Little Richorn)	Mr. W. Kerr	5	0 9	35 †	55·20	193
Creetown (Cassencary)	JA Henryson-Caird, Esq	5	0 8	40	48·93	...
D Kirkpatrick Durham (Glenlair)	Major Maxwell	5	0 8	250 †	57·63	171
D Cargen [Dumfries]	R. F. Dudgeon, Esq. ...	5	1 0	80 †	52·92	207
D New Galloway (Glenlee)	Mr. W. Melville	5	1 3	234	66·33	221
D Dalry (Glendarroch)	Miss Barbour	5	0 11	192 †	63·75	208
D „ (The Old Garroch)	T. R. Bruce, Esq.	8	6 0	432 †	67·20	212
Irongray (Drum Park)	D. J. Kay, Esq.	5	1 0	230	60·17	...
Glenhead of Trool	J. McMillan, Esq.	5	0 11	320	81·34	...
Carsphairn (Holm of Dalquhairn)	Miss McMillan	5	1 2	900	61·10	...
DUMFRIES.						
D Dumfries (Ivy Bank)	Rev. W. Andson	8	0 10	70 †	47·13	218
Canonbie (Byreburnfoot)	Mr. D. Crabbe	3	...	...	47·88	...
Langholm (Westwater)	J. M. Elliot, Esq.	3	0 9	450	64·71	...
D „ (Drove Road)	Mr. W. Jackson	5	0 9	270	61·36	201
Moniaive (Glencrosh)	Miss McMillan	5	1 2	350	62·15	209
D „ (Maxwelton House) ...	Rev. Sir E. Laurie, Bt.	8	1 2	400 †	52·32	217

DIVISION XII.—SOUTHERN COUNTIES (*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which '01 or more fell
		Diameter	Height Above Ground.	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
DUMFRIES—(<i>con.</i>)						
Langholm (Ewes School)	Mr. J. C. Lyall	3	1 0	445 ↑	67·80	...
„ („ Burnfoot)	J. C. Little, Esq.	3	1 0	541 ↗	62·17	...
Durrisdeer (Drumlanrig Gardens)	Mr. D. Inglis	9	0 9	191	53·70	...
Moffat (Craigielands)	Mr. L. Frazer	5	0 9	360 ↑	60·21	...
D „ (Auchen Castle)	Mr. W. McAdam	5	0 6	500	64·26	239
„ (Eriestane)	Mrs. J. J. Welsh	3	0 6	580 ↑	62·00	...
„ („)	Snowdon „ „ „	5	1 6	580 ↑	59·88	...
ROXBURGH.						
D Hawick (Branhholme)	J. G. Winning, Esq.	5	0 6	457 ↗	45·75	204
D Jedburgh (Ancrum Bridge)	A. Johnston, Esq.	5	2 0	229	39·69	206
D Lilliesleaf (Riddell)	Gen. Sprot	5	0 8	550 ↑	42·70	242
D „ („)	Mr. J. Williamson	5	0 8	500 ↑	40·29	203
D St. Boswell's (Elliston)	The Hon. G. Dalrymple	5	1 0	352	38·64	220
Kelso (Springwood Park)	Mr. W. Chaplin	10	1 0	130 ↓	34·45	166
„ (Broomlands)	Dr. Buchan, F.R.S. ....	...	...	205	36·24	209
D Melrose (Asylum)	old g. Mr. Pattman	5	0 6	480 ↑	43·01	226
D „ („)	new g. „ „ „	5	1 0	480 ↑	42·86	226
Wooplaw [Galashiels]	J. Murray, Esq.	5	1 0	880 ↗	41·13	209

DIVISION XIII.—SOUTH EASTERN COUNTIES.

SELKIRK.						
D Selkirk (The Hangingshaw) ...	Miss Johnstone	5	0 6	670 ↑	42·69	165
Galashiels (Abbotsford Rd.)	Dr. Somerville	5	0 8	416 ↑	42·57	232
„ (Stantling Craigs) ...	Mr. W. Ross	12	1 3	800	43·81	...
PEEBLES.						
Innerleithen (The Glen)	Dr. Buchan, F.R.S. ....	...	...	...	40·50	...
„ (Leithen Lodge) ...	Mr. D. Clark	11	0 0	700 ↑	47·07	...
Stobo Castle	Dr. Buchan, F.R.S. ....	...	...	600	38·30	172
Peebles (Swinton Bank)	C. A. Ainslie, Esq.	5	0 6	600	41·06	...
Kirkurd (Castle Craig)	Dr. Buchan, F.R.S. ....	...	...	830	34·02	194
D West Linton (Rutherford House)	E. Cameron, Esq.	5	3 9	970 ↗	49·05	201
Eddlestone (Portmore Res.)	W. Anderson, Esq.	11	0 6	1000	42·51	216
N. Esk Reservoir [Penicuik] ...	Mr. W. Tod	11	0 6	1150 ↗	49·15	180
BERWICK.						
D Earlston (Cowdenknowes)	Mr. J. Robertson	5	0 10	360	38·75	218
D Coldstream (The Hirsell)	Mr. Cairns	5	1 0	94 ↗	36·33	218
D Marchmont House	Mr. J. A. Wood	5	1 0	500 ↑	43·80	226
D Dunse Castle	Mr. R. Aikman	5	1 0	500	45·01	175
West Foulden	J. H. Craw, Esq.	5	1 0	250 ↑	35·61	...
Longformacus (Rawburn)	„ „ „	3	1 0	920 ↑	43·30	...
St. Abb's Head	Bd. of Northern Lights .....	...	0 4	211	32·35	138

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
HADDINGTON.						
Garvald (Donolly Reservoir) ...	Mr. J. McKellar	11	1 6	560 A	42-55	...
b Drummore [Musselburgh]	Mr. J. Robson.....	5	0 8	75 T	32-98	205
d Whittinghame Gardens	Mr. J. Garrett	5	1 0	348 B	39-09	168
Prestonkirk (Smeaton).....	Dr. Buchan, F.R.S. ....	...	...	100	32-17	174
Aberlady.....	" " "	...	...	...	32-45	...
North Berwick Reservoir ...	Mr. J. McKellar..	11	1 6	150 T	33-60	...
" " (Fidra).....	Bd. of Northern Lights ...	...	...	...	28-92	...
EDINBURGH.						
Stow (Burnhouse)	W. R. Ovens, Esq.	5	0 6	720	40-87	...
Moorfoot Hills (Bowbate)	W. Anderson, Esq.....	11	0 6	2042	53-51	...
" " (Gladhouse Res.)	" " "	11	0 6	900	43-38	212
" " (Rosebery)	" " "	11	0 6	750	41-30	...
Pentland Hills (Crosswood)	" " "	11	0 6	950	49-19	...
Penicuik (Edgelaw Res.).....	" " "	11	0 6	654	41-20	...
Pentland Hills (Harper rig)	" " "	11	0 6	900	48-40	...
" " (Harehill)	" " "	11	0 6	1470	54-30	...
" " (Loganlea)	" " "	11	0 6	850	49-50	...
West Calder (Addiewell)	J. Fyfe, Esq.	5	0 6	600	42-25	...
Rosewell Asylum	Dr. Buchan, F.R.S. ....	...	...	690	41-41	245
Pentland Hills (Swanston)	W. Anderson, Esq.....	11	0 6	550	40-35	...
" " (Glencorse Res.)..	" " "	11	0 6	787	49-50	183
" " (Harlaw)	" " "	11	0 6	800	46-49	...
" " (Clubbiedean Res)	" " "	11	0 6	750	44-79	...
" " (Harbour Hill) ...	" " "	11	0 6	1112	57-86	...
d Dalmahoy	Countess D.of Morton...	5	0 10	358	44-66	196
Liberton (Alnwick Hill)	W. Anderson, Esq.	11	0 6	400	38-12	208
d " (R. Obs. Blackford Hill)	Dr. Copeland	8	1 0	442 A	31-31	173
" " " " ")	" " "	5	25 0	460	19-77	108
Corstorphine	Dr. A. Buchan, F.R.S..	...	...	165	37-04	237
Edinburgh (Blacket Place)	R. C. Mossman, Esq....	5	0 8	252 T	38-72	...
" (George Square)	Surg.-Maj. W. G. Black	8	4 0	261	34-06	162
d " (City Observatory) ...	W. Peck, Esq.	8	0 10	349	32-63	184
d " (Royal Botanic Garden)	Mr. A. D. Richardson..	8	1 0	74 A	36-22	217
Leith	The Meteor. Council ...	8	1 8	22	31-23	190
" (Navigation School)	Dr. Buchan, F.R.S.....	5	0 5	50	35-48	209
d Davidson's Mains (Broomfield)...	Mr. Comfort	5	0 10	42 L	35-77	196
LINLITHGOW.						
d Whitburn (Polkemmet)	Lady Baillie	5	1 0	600 T	53-31	...
Uphall.....	J. Fyfe, Esq.	5	0 10	380	40-19	...
Carribber Reservoir	M J. Bawne, Esq.	5	0 7	340 T	42-02	...
d Linlithgow (Nether Parkley) ...	late W.H. Henderson Esq	5	0 3	290 T	42-03	200
Bo'ness (Neidpath Cottage)	Mr. J. Grant	5	3 0	220 T	35-25	...

DIVISION XIV.—SOUTH WESTERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which 10 or more fell.	
		Diameter	Height Above Ground	Height Above Sea Level	1900		
			ft. in.	feet.	inches.		
LANARK.							
Leadhills.....	Dr. A. Buchan, F.R.S..	...	...	...	69·37	229
d Biggar (Cambus Wallace)	Captain Paul	6	0 6	748 ∇	36·09	195	
Lanark (Khyber Lodge)	R. Swan, Esq.....	6	3 0	650	39·00	...	
d Cleghorn.....	W. Elliott Lockhart, Esq.	3	0 3	720	49·00	215	
d Carluke (Mauldslie Castle)	Mr. D. Bryson	5	1 0	140	46·91	...	
Dalzell House	Mr. Angus	6	5 6	89 \uparrow	40·44	172	
Hamilton Water Works	Mr. R. Watson	7	1 0	436 \uparrow	44·90	...	
d „ (Ardenclutha)	Rev. T. M. B. Paterson	5	1 9	260 \uparrow	45·95	193	
Bothwell.....	Dr. Buchan, F.R.S. ....	...	...	...	45·18	227
„ Castle	Mr. W. F. B. Archibald	10	18 0	146 \uparrow	47·73	199	
Glasgow (Tollcross Park)	J. Whitton, Esq. ....	...	...	85	47·28	222
„ (Green Park)	„ „ „	5	0 6	35	46·29	190	
„ (Bellahouston Park).....	„ „ „ .....	...	...	160	42·67	229
„ (Alexandra Park)	„ „ „	5	0 6	141	41·72	217	
„ (George Square) .....	„ „ „ .....	...	...	40	45·30	214
„ (Kelvin Grove Park).....	„ „ „	5	0 6	48	43·84	190	
„ (Belvedere Hospital) ...	Dr. Buchan, F.R.S. ....	...	...	54	44·88	201
„ Observatory	Prof. Becker	11	2 0	182	46·98	221	
„ (Springburn Park).....	J. Whitton, Esq.	5	0 6	361	42·07	173	
d Airdrie (Hillend Reservoir)	Mr. W. A. Ritchie	6	4 6	620 ∇	44·85	217	
AYR.							
Ballantrae (Glendrishag).....	P. Murdoch, Esq.	5	1 0	42	40·72	190	
Barrhill (Dochroyle)	M. Mr. J. Scott	6	0 6	548 \uparrow	56·56	..	
d Colmonell (Clachanton).....	R. Aitken, Esq.....	6	0 6	140 \uparrow	46·78	191	
d Girvan (Pinmore) ..	Capt. Hamilton	5	1 0	187 ∇	56·09	209	
d Barr Manse	Rev. G. Dods.....	5	1 0	330	52·92	213	
Girvan (Glendoune Gardens) ...	Mr. J. Simons	5	1 0	150 \uparrow	43·73	119	
Loch Finlas.....	J. Young, Esq.	5	1 0	849	55·05	...	
Girvan (Turnberry)	Bd. of Northern Lights	...	...	...	41·00	144
d Dalmellington (Benquhat).....	A. Gillespie, Esq. ....	...	1 6	1068	44·35	220
d Maybole (Culzean Gardens)	Mr. D. Murray	9	3 0	200	41·40	182	
Ayr (Doonholm).....	J. Kennedy, Esq.	5	1 0	90	42·54	...	
Muirkirk (Glenbuck)	Mr. W. F. Hamilton...	6	1 0	900	49·30	...	
Kilmarnock (North Craig)	R. Blackwood, Esq. ...	12	1 0	319 ∇	48·65	...	
d Dalry (Blair)	Mr. W. Rae	5	1 0	160	58·77	204	
Dunlop (Dunlop House)	Maj. J. F. Dalrymple Hay	...	...	550	66·20	...
Paisley W. W. (Camphill)	J. Lee, Esq.	12	1 6	611	78·65	...	
Shaws W. Works (Kelly Dam)...	D. Macalister, Esq. ...	6	1 0	640 ∇	72·00	...	
„ „ „ (Knockencorsan)	„ „ „	6	1 0	1040	70·00	...	
RENFREW.							
Lochwinnoch (Garthland).....	H. Macdowall, Esq. ...	5	0 11	150	77·69	188	
„ (Castlesemple).....	Mr. C. Jamieson.....	...	...	240	56·31	152
Gorbals's Dist.	{ Ryat Lynn	J. M. Gale, Esq., C.E..	8	0 5	310	59·65	...
	{ Waulk Glen	„ „ „	12	0 5	280	57·80	...
	{ Middleton	„ „ „	12	0 5	550	69·80	...
	{ Nether Cairn.....	„ „ „	12	0 5	700	53·30	...

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

STATIONS.	AUTHORITIES	Rain Gauge.			Depth of Rain. 1900	Days on which 101 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
RENFREW—(con.)						
Paisley W. Works	Stanely	J. Lee, Esq.	12	1 0	190	50·87 ...
	Back Thornleymuir	„ „	12	1 0	646	64·34 ...
	Muirhead	„ „	12	1 0	482 π	55·68 ...
	Springside	„ „	12	1 0	532 π	60·94 ...
D	Glasgow (Queen's Park)	J. Whitton, Esq.	8	0 9	144 π	46·46 202
	„ (Maxwell Park)	„ „	5	0 6	69	45·87 199
	Paisley (Crookston)	Major Hotchkis	3	0 5	...	45·15 142
Shaws Water Works.	Duchall Moor	D. Macalister, Esq., C.E.	6	1 0	1150	76·80 ...
	Creuch Hill	„ „ „	6	1 0	1350	67·10 ...
	Largs Road	„ „ „	5	1 0	910	66·55 ...
	Green Water	„ „ „	6	1 0	788 π	76·00 ...
	Gryfe Reservoir	„ „ „	6	1 0	640 π	73·50 ...
	Mansfield	„ „ „	5	1 0	573 π	71·35 256
	Compensation Reservoir	„ „ „	5	1 0	600	70·33 262
	Loch Thom	„ „ „	5	1 0	643 π	71·64 262
	Shielhill	„ „ „	6	1 0	962 π	76·00 ...
	Darndaff Moor	„ „ „	6	1 0	850	72·50 ...
	Spango Burn	„ „ „	6	0 9	757 π	73·20 ...
	Hole Glen	„ „ „	5	1 0	603	65·18 250
	New Yetts Dam	„ „ „	5	1 0	800	76·98 250
D	Prospect Hill	„ „ „	5	1 0	233	71·02 231
	Bishopton (Ingliston)	D. Cross, Esq.	5	1 0	195	56·62 ...
	Langbank (East Bank Gardens)	A. Cross, Esq., M.P.	5	2 0	...	59·00 ...

DIVISION XV.—WEST MIDLAND COUNTIES.

DUMBARTON.

D	Dumbarton (Leven Shipyard)	Messrs. Denny, Bros.	5	1 0	9 π	58·17 240
D	Helensburgh (Fernigair)	J. R. Wilson, Esq.	6	0 6	16	52·82 216
D	„ (Water Works)	„ „ „	6	0 6	300	52·36 216
	Arrochar	Rev. J. Dewar	5	0 9	12	81·26 ...

STIRLING.

	Muiravonside Ho. [Linlithgow]	C. Stirling, Esq. ....	...	...	175	42·01 ...
	Strathblane (Mugdock Reservoir)	J. M. Gale, Esq., C.E.	8	0 6	320	50·20 ...
D	„ (Craigend Castle)	Sir J. Buchanan, Bart.	5	0 9	543 π	65·62 256
	„ (Craigbarnet)	C. Stirling, Esq. ....	...	...	...	65·50? ...
	„ (Blane field) .....	„ „ .....	...	...	...	64·40 ...
	Falkirk (Kerse)	C. Brown, Esq.	8	1 0	18 π	40·20 ...
	„ („)	new g. „ „	5	0 10	18 π	39·97 ...
	Little Denny Reservoir	C. Massie, Esq.	8	1 0	325 π	41·30 ...
	„ „ Filters	„ „	8	1 0	243 π	39·63 ...
	Earlsburn Reservoir	„ „	8	1 0	1202 π	63·35 ...
	St. Ninians (Faughlin)	„ „	8	1 0	707 π	58·09 ...
	Stirling (Touch Reservoir)	C. Stirling, Esq. ....	...	...	760	52·83 ...
	„ (Polmaise Gardens)	Mr. W. W. Ritchie	6	1 3	12	41·32 ...
	„ (Victoria Place)	R. Kidston, Esq.	5	2 10	100	45·71 ...
D	Buchlyvie (The Manse)	Rev. J. A. Macdonald ..	5	1 3	118 π	60·93 256

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
STIRLING—(con.)						
Gargunnoch	C. Stirling, Esq.....	5	5 8	85 T	50·60	...
Kippen (Arngomery).....	„ „ „ .....	...	...	...	53·13	...
„ (Garden House) .....	„ „ „ .....	...	...	...	55·85	...
Bridge of Allan	the late F. P. Pullar, Esq.	5	0 3	120	42·42	229
Ben Lomond	J. M. Gale, Esq. C.E....	...	...	1800	124·50	...
Glengyle .....	„ „ „ .....	...	...	380	104·00	...
BUTE.						
Arran (Pladda)	Bd. of Northern Lights	...	...	...	46·85	153
Holy Island (Lamlash) .....	„ „ „ .....	...	...	...	63·63	155
Kingarth (The Plan).....	H. Hastings, Esq.	5	1 3	75	50·06	...
d Rothesay (Barone Cottage)	J. Kay, Esq.	5	1 0	116 T	54·17	219
d „ (Crichton Road).....	H. Lauder, Esq.....	5	4 0	97	61·16	226
ARGYLL—(MAINLAND.)						
d Tighnabruaich	A. S. Cousland, Esq. ...	5	4 0	30 B	59·48	206
d „	„ „ „	12	5 0	50 B	66·24	206
d Loch Eck (Benmore).....	H. J. Younger, Esq. ...	5	1 3	40	97·97	206
d Lochgilphead (Poltalloch).....	Mr. D. S. Melville.....	6	4 6	135	55·26	201
d Inveraray Castle (Gardens)	Mr. G. Taylor	5	1 0	40	85·63	249
d „ (Newtown)	Mrs. Little	5	1 0	17	75·94	242
Oban (Kilninver, Bragleenbeg)..	F. B. Ellison, Esq.....	5	1 0	240 T	91·11	232
„ (Loch-na-gleann-na-brathrach) ..	Dr. Bailly	11	1 2	370	44·73	...
„ (The Corran)	„ „ „	5	1 0	20	60·69	204
Appin (Airds)	Dr. Buchan, F.R.S. ...	5	0 11	41 T	61·91	143
d Morvern (Drimnin)	Mrs. Gordon	5	1 0	225	70·89	232
d Ballachulish (Ardshel)	Dr. W. D. Anderson...	8	1 0	103 T	83·24	228
d Strontian (Laudale)	A. Fletcher, Esq.	8	1 0	15 T	88·57	261
d Loch Sunart (Glenborrodale) ...	C. D. Rudd, Esq.	5	0 2	60 L	77·23	202
Ardnamurchan	Bd. of Northern Lights	...	3 6	28 ?	53·02	205
Ardgour	Mrs. Maclean	3	0 10	72	74·50	...
Loch Eil (Corran)	Bd. of Northern Lights	...	0 4	14 ?	75·20	184
ARGYLL—(INSULAR.)						
Kintyre, Mull of	Bd. of Northern Lights	...	...	279 ?	54·49	163
„ (Campbeltown, Devaar) ..	„ „ „ .....	...	3 4	75 ?	58·32	207
„ (Skipness Castle)	Mr. P. McLean	5	1 6	27	57·21	...
d „ (Stonefield, Tarbert) ...	Colin G. Campbell, Esq	5	0 9	90	80·34	245
d Islay (Ardbeg)	C. Hay, Esq.	5	7 0	46 T	50·84	168
„ (Rhinn)	Bd. of Northern Lights	...	3 0	74 ?	39·17	167
„ (Lochindaule).....	„ „ .....	...	...	...	43·83	136
„ (McArthurshead) .....	„ „ .....	...	...	...	85·76	206
d „ (Eallabus).....	J. Laughton, Esq.	5	1 0	68 T	55·56	185
„ (Rhuvaal)	Bd. of Northern Lights	...	...	...	60·97	206
Jura (Fladda) .....	„ „ „ .....	...	...	...	66·07	191
Lismore (Mousedale).....	„ „ „ .....	...	3 4	37 ?	55·57	184
Mull (Lochbuie).....	Dr. Buchan, F.R.S. ...	...	...	20	92·60	187
d „ (Quinish)	J. N. Forsyth, Esq. ...	5	1 6	35	67·63	233
„ (Sound of)	Bd. of Northern Lights	...	...	...	72·18	173
d Tiree (Hylipol Manse)	Rev. D. Maclean	5	1 0	25 B	50·24	229

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ".01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
PERTH—(con).						
D Crieff (Ochertyre).....	Mr. G. Croucher	5	2 6	326 T	45.94	208
Lochearnhead (Ardvorlich)	Col. Stewart	5	1 0	321	74.07	222
Perth (Kinfauns Castle)	Col. F. J. Stuart Gray..	5	16 0	150 T	33.84	210
" (" " Garden)	" " " "	5	1 3	20	36.12	227
"	Dr. Buchan, F.R.S. ....	...	...	105	35.28	135
Killin (Auchmore).....	Mr. J. Cant.....	5	1 0	400 T	66.09	...
D Coupar Angus Station	Mr. J. Robertson	5	1 3	183 T	35.67	190
Dunkeld (Inverbraan)	Rev. Canon Murdoch...	...	...	...	52.34	151
Pitlochry (Donavoured)	W. Maxwell, Esq.	5	0 7	400	37.39	168
D Blair-Atholl	Mr. A. Cameron.....	5	1 0	420	35.24	203
FORFAR.						
Buddonness (Low Light)	G.C.Buchanan, Esq., CE	5	1 0	17	32.53	189
D Dundee (Harbour).....	" " " "	5	0 10	14	35.31	215
D Broughty Ferry (Airlie Park) ..	Mr. K. Graham	5	5 6	60 A	35.05	196
" " (Corona Gardens)	R. Mudie, Esq.	5	4 6	96	34.44	...
D Dundee (Eastern Necropolis) ...	Mr. J. Carnochan	3	0 4	199 T	34.30	215
D " (" ") new	" " " "	5	0 4	199 T	34.80	215
" (Dens Works)	Messrs. Baxter Bros.	5	...	119 T	34.15	203
" (Westgreen House).....	Dr. Rorie.....	5	0 10	216	39.21	...
D " (Camperdown Works)...	Messrs. Cox Bros.	5	3 8	290	30.43	151
Liff	Col. F. J. Stuart Gray..	5	1 3	260 T	39.46	200
D†Craigton	G. Baxter, Esq., C.E..	8	1 0	410	40.73	181
† "	" " " "	11	3 0	481	41.02	...
" (Hillhead)	" " " "	11	3 0	570	42.36	...
†Crombie Reservoir	" " " "	11	3 0	522 T	49.01	...
D Arbroath (Waterworks)	W. Stewart, Esq., C.E.	5	0 11	58 A	30.81	187
" (")	" " " "	5	1 0	58 A	31.65	...
D " (") Tower... ..	" " " "	5	48 0	157 A	20.60	171
" (") " M	" " " "	5	48 0	157 A	17.26	...
D " (Dishland Hill)	Mr. J. Campbell.....	5	0 11	69	28.67	193
D Inverarity Manse	Rev. P. Stevenson	5	1 0	301 T	40.96	166
D Glamis Castle.....	Mr. T. Wilson	5	4 0	250	35.62	140
Forfar (Lilyfield)	A. L. Fenton, Esq.	5	0 5	235 T	33.22	168
Rescobie (Pitscandly)	W. F. Farquhar, Esq..	5	5 10	280	33.04	...
Kirriemuir (Lintrathen)	G. Baxter, Esq., C.E..	8	1 0	700	40.70	...
D " (" Balnakeilly)	" " " "	8	1 0	700	41.18	218
" (") M	" " " "	8	1 0	700	39.60	...
" (" Creich Hill) M	" " " "	8	1 0	1500	33.80	...
" (" Longdrum)	" " " "	8	1 0	1142	44.70	...
" (" Glen Dye)	" " " "	8	1 0	1409	48.80	...
" (" Barney)	" " " "	8	1 0	1145	44.90	...
" (" Glen Damff)	" " " "	8	1 0	1480	41.90	...
D " (Lednathie).....	Mr. W. Morrison	5	1 0	720	49.69	225
Montroseness	Bd. of Northern Lights	...	...	...	32.75	106
Montrose (Melville Gardens) ...	Mr. J. R. Findlay.....	5	7 0	23 T	28.59	168
D " (Sunnyside Asylum)...	J. Masson, Esq.	5	0 10	200	33.81	158
D " (Kinnaber W.W.).....	Mr. J. R. Findlay.....	5	1 0	38 T	35.50	174
Brechin (Stracathro Gardens) ...	RtHon JACampbell, MP	5	1 0	240 T	38.56	...

DIVISION XVII.—NORTH EASTERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which -01 or more fell.
		Diameter	Height above Ground.	Height above Sea Level		
KINCARDINE.						
Johnshaven (Brotherton)	Mrs. Scott	5	1 0	...	34·63	200
Laurencekirk (Johnstone Lodge) ..	Dr. Buchan, F.R.S. ....	...	...	...	40·69	...
d Fettercairn (The Burn) <i>House</i> ...	Col. C. McInroy, C.B. ...	5	0 11	250	42·68	214
„ „ Manse.....	Rev. W. Anderson ..	5	0 2	230 †	42·76	...
d Banchory (Invercannie)	W. Dyack, Esq., C.E..	12	0 10	205	45·40	274
Girdleness	Bd. of Northern Lights	...	...	...	28·57	161
ABERDEEN.						
d† Braemar.....	J. Aitken, Esq.	8	0 9	1114 †	39·45	229
Forest of Glen Tana	Mr. R. Warburton.....	5	1 0	576 †	44·95	...
d Cromar (Logie Coldstone Manse). ..	Rev. Dr. Davidson.....	5	1 0	694 †	35·49	213
„ „ „ „ Loanhead) ..	Mr. A. Farquharson ...	5	1 0	743 †	34·64	218
„ „ (Tillypronie)	Mr. R. Littlejohn	5	1 0	1120 †	39·18	243
d Aberdeen (Cranford)	D. McHardy, Esq.	5	1 0	120 †	38·47	258
„ „ (Duthie Park)	Dr. Buchan, F.R.S. ....	...	...	44	32·52	194
„ „ (King's College)	The Meteor. Council ...	8	2 0	48	33·95	229
Towie (Culquoich)	Col. Allardyce	5	1 6	800	38·95	...
Ellon (Mains of Waterton)	T. F. Jamieson, Esq....	5	1 0	100	33·43	...
„ „ (Kermuck)	Mr. T. Mair	11	0 6	300 †	35·20	...
Haddo House	Mr. J. Forrest	5	0 5	180 †	37·82	222
Peterhead (Buchanness)	Bd. of Northern Lights	...	...	...	26·34	136
„ „ (H.M. Prison)	Dr. Buchan, F.R.S. ....	...	...	109	22·12	174
New Deer Schoolhouse	Mr. H. Cowie.....	5	1 0	397 †	37·52	223
Kinnairdhead	Bd. of Northern Lights	...	...	...	27·05	134
BANFF.						
d Dufftown	J. Walker, Esq.....	5	2 0	579 †	39·76	265
Aberlour	J. McGowan, Esq.	5	1 0	300	32·00	...
d Keith (H.R.S.)	The Station Agent.....	5	1 0	364 †	35·74	220
Banff (Earl Hill)	A. Ramsay, Esq.	5	1 0	115 †	34·55	255
Cullen House	Mr. J. F. Smith.....	5	1 0	100 †	35·45	...
ELGIN OR MORAY.						
Grantown	Mr. W. Duncan.....	5	1 1	712 †	34·14	187
Craigellachie(WesterElchiesSch)	Mr. J. Milne	5	1 0	560 †	35·57	208
d Forres H.R.S.	The Station Agent.....	5	1 0	25	29·65	196
Kinloss	J. Mackessack, Esq. ...	5	1 3	20 †	28·67	...
d Gordon Castle.....	Mr. C. Webster	8	1 0	107 †	37·32	227
d Duffus House	Sir A. Dunbar, Bart....	5	1 0	55 †	29·78	199
NAIRN.						
d Ardlach (Glenferness).....	Anonymous.....	...	...	...	40·04	169
d Cawdor (Budgate).....	J. Joss, Esq.	5	1 0	250 †	37·42	229
d Nairn (Achareidh).....	Col. Clarke	8	1 0	59 †	29·13	218
„ „ (School Ho.)	The Meteor. Council ...	8	1 9	84	29·89	230

DIVISION XVIII.—NORTH WESTERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
WEST ROSS & CROMARTY.						
D Kintail (The Glebe)	Rev. R. MacKenzie ...	5	0 10	5 ♯	76·41	244
Applecross Gardens	Mr. D. McCowan	5	1 0	70 ♯	64·55	...
D Strathconan (Dalbreac)	Mr. D. McIver	5	1 0	450	61·10	144
D Glencarron Lodge	Mr. D. D. Munro	5	1 0	504	88·35	274
D Loch Torridon (Bendamph)	Hon. L. F. King-Noel..	5	0 5	20 ♯	101·09	253
Isle of Lewis (Stornoway)	Bd. of Northern Lights	...	3 4	31 ?	38·74	199
„ („ „)	The Meteor. Council....	8	1 0	24	62·51	266
„ (Butt of Lewis) ..	Bd. of Northern Lights	...	3 6	...	47·02	192
EAST ROSS & CROMARTY.						
Contin (Kinnahaird)	W. Ross, Esq. ...	5	1 2	74	39·19	...
D Strathpeffer Spa (Ambatovory) ..	J. T. Fox, Esq.	5	1 0	254	36·79	241
Evanton (Swordale House)	Dr. Buchan, F.R.S. ...	...	...	...	40·20	...
Cromarty	Bd. of Northern Lights	...	...	...	31·07	128
D Alness (Ardross Castle)	Mr. W. Minty ..	5	1 0	450 ♯	50·66	272
D Fearn (Lower Pitkerrie)	R. Gordon, Esq., C.E..	5	1 0	95	28·29	188
„ (Geanies Mains)	Miss Hope Douglas ...	5	1 0	200 †	27·79	...
Tarbetness	Bd. of Northern Lights	...	3 4	61 ?	26·35	...
WEST INVERNESS.						
Moidart (Kinloch moidart)	R. Stewart, Esq. ....	...	...	...	56·19	...
Ben Nevis Observatory	Dr. Buchan, F.R.S. ...	5	...	4407	207·10	276
Fort William (Observatory) ...	The Meteor. Council ...	8	1 8	33	82·14	239
D Loch Shiel (Glenaladale)	Major Macdonald	5	1 2	50 ?	112·36	255
D Arisaig	Mr. W. Grant	5	1 0	20 ?	66·60	236
D Loch Nevis (Inverie)	Mr. J. Huggins ...	5	0 6	10	95·84	232
D Glenquoich	Mr. D. Grant	8	2 4	590 ♯	109·61	249
D Glenelg	Rev. A. Mactaggart ...	5	1 0	85 †	69·08	255
Skye (Strathaird)	Mr. K. Macdonald	5	1 4	45	93·79	150
„ (Oronsay)	Bd. of Northern Lights	...	0 6	15 ?	38·30	140
„ (Kyleakin) .....	„ „ „ „	...	...	...	49·68	178
D „ (Scalpay Island)	Mr. D. Gunn	5	1 0	4	76·44	253
D „ (Raasay House)	Mr. J. M. Paul	5	2 6	80	74·31	217
„ (Portree House)	A. H. Douglas, Esq. ...	5	1 6	100	58·18	...
Rona	Bd. of Northern Lights	...	...	...	38·24	167
Barra (Barrahead)	„ „ „ „	...	3 0	640 ?	27·34	175
D S. Uist (Askernish)	D. Paterson, Esq.	5	1 6	10	42·31	180
„ (Ushenish)	Bd. of Northern Lights	...	0 4	157 ?	87·60	165
N. Uist (Monach) .....	„ „ „ „	...	...	150	46·02	189
D „ (Lochmaddy)	T. D. McGregor, Esq. ...	5	0 9	...	48·92	234
Harris (Island Glass)	Bd. of Northern Lights	...	...	...	51·23	200
EAST INVERNESS.						
D Invergarry	Mrs. Ellice	5	1 0	...	56·26	141
Kingussie	Dr. Buchan, F.R.S. ...	...	...	824	36·52	234
D Fort Augustus (St. Benedict's)...	Rev. C. von Dieckhoff..	5	1 6	68 ♯	50·50	254
Alvie Manse	Rev. J. Anderson	5	1 0	720	36·47	...
Aviemore (H.R.S.)	The Station Agent	5	1 0	710	30·78	223

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

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level	1900	
			ft. in.	feet.	inches.	
EAST INVERNESS—(con.)						
Loch Ness (Killin)	W. Murray Morrison Esq	5	1 0	1200	43·30	...
„ „ (Whitebridge)	„ „ „	5	1 0	645	50·78	206
„ „ (Foyers)	„ „ „	8	1 6	52	43·71	...

DIVISION XIX.—NORTHERN COUNTIES.

SUTHERLAND.

D Dornoch	Rev. D. Grant	5	1	0	21	31·57	196
D Invershin	Mr. G. Young	5	4	0	20 †	40·71	218
D Golspie (H.R.S.)	The Station Agent.....	5	0	9	27	37·21	141
D „ (Dunrobin Castle)	Mr. D. Melville	5	1	0	14 †	38·39	184
„ („ „).....M	„ „	3	0	3	13 †	39·04	...
Lairg	Rev. D. Macrae	5	0	10	385 ?	43·04	257
Stourhead	Bd. of Northern Lights .....	...	...	...	...	41·60	195
D Loch Naver (Altnaharra).....	Rev. A. Sutherland.....	5	1	0	300 †	48·60	230
D Bettyhill	Mr. Evander Mackay...	5	1	0	100	39·02	170
Durness	Rev. Adam Gunn	5	1	0	30	56·21	...
Cape Wrath	Bd. of Northern Lights	3	3	6	355	42·54	151

CAITHNESS.

CAPTAIN'S.									
Wick	The Meteor. Council ...	8	1	9	77	33-14	262		
„ Nosshead	Bd. of Northern Lights	...	...	...	...	28-92	146		
Watten (H.R.S.) ...	The Station Agent	5	2	6	75 1	29-85	217		
Thurso (Holburnhead)	Bd. of Northern Lights	3	0	8	60 ?	35-70	165		
Dunnethead	„ „ „	...	3	0	...	30-31	122		
Pentland Skerries	„ „ „	...	3	3	72 ?	31-27	135		
Stroma .....	„ „ „	...	...	...	...	20-12	...		

ORKNEY.

d South Ronaldshay (Roeberry) ...	J. Gray, Esq.	5	1	2	101	34.88	280
Hoy (Cantickhead)	Bd. of Northern Lights	...	0	6	...	35.92	162
„ (Graemsay Sound, East=High)	„ „ „	...	3	4	27 ?	41.13	128
„ „ „ (West=Low)	„ „ „	...	3	4	...	46.19	182
Pomona (Deerness)	Dr. Buchan, F.R.S. ....	...	1	0	172	34.01	184
„ (Kirkwall)	Mr. J. W. Cursiter.....	3	1	3	20	40.57	226
Hellyar Holm.....	Bd. of Northern Lights	...	...	...	...	37.71	158
Auskerry .....	„ „ „	...	...	...	...	33.78	123
Shapinsay (Balfour Castle)	Mrs. Balfour	5	0	6	50	32.53	...
Sanday (Start Point).....	Bd. of Northern Lights	11	0	6	29 ?	33.25	114
Westray (Noup Head) .....	„ „ „	...	...	...	...	43.09	160
North Ronaldshay .....	„ „ „	...	...	...	...	38.39	178

SHETLAND.

Fair Isle, N.	Bd. of Northern Lights	...	...	24-90	...
Sumburghead (Dunroseness)	The Meteor. Council	8	1	0	84
Bressay	Bd. of Northern Lights	...	...	41-30	126
Sule Skerry	"	...	...	46-90	137
Fetlar (The Manse)	Rev. J. A. Campbell	5	1	0	30
				40-90	256

IRELAND.

DIVISION XX.—MUNSTER.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which -01 or more fell.
		Diameter	Height above Ground.		Height above Sea Level	
			ft.	in.	feet.	inches.
CORK.						
D Castletownshend (Glen Barrabane)	E. B. Coghill, Esq. ...	5	3	0	25 L	33·37 184
D Dunmanway (Coolkelure)	Col. Shuldham	5	1	6	500 T	79·32 253
Bandon (Ardnacarrig)	G. A. Armstrong, Esq. ...	5	1	0	126	44·35 211
Roche's Point	The Meteor. Council ...	8	1	9	32	42·35 189
D Passage West	C. H. Jacob, Esq.	8	4	0	287	37·94 175
D Douglas (Villa Franca)	R. C. Sikes, Esq.	5	1	0	49 T	39·35 216
D Cork (Queen's College)	Prof. Jack	8	1	0	60	40·00 220
D „ (The Palace)	Rt. Rev. Bishop of Cork	5	1	0	40 L	36·60 207
D „ (Wellesley Terrace)	W. Miller, Esq.	5	1	0	190 B	38·41 208
„ (St. Anne's Hill)	A. G. Bennett, Esq. ...	5	4	6	250	33·28 143
D Mallow (Summer Hill)	J. F. Williamson, Esq. ...	5	1	10	261 T	40·81 217
D „ (Longueville Field)	R. E. Longfield, Esq. ...	5	1	1	310	41·47 232
Doneraile (Carker House)	The Meteor. Council ...	5	2	0	267	37·13 160
KERRY.						
D Darrynane Abbey ..	D. O'Connell, Esq.	5	1	0	13 T	40·53 249
D Waterville (Iveragh Lodge)	T. J. Wilmot, Esq.	5	1	0	86 T	53·45 255
Kenmare (Derreen)	Mr. W. Holbrow	5	1	0	74 T	73·79 235
Valencia (Glanleam)	The Meteor. Council ...	8	1	0	12	58·72 227
Cahiriveen	„ „ „	8	2	0	32	62·51 263
Mangerton	Ven. Archdeacon Wynne	8	3	6	1760	118·80 ...
Gap of Dunloe (Garrymeen)	„ „ „	8	3	0	75	98·75 ...
D Killarney (Woodlawn)	„ „ „	5	1	1	96 T	65·96 230
WATERFORD.						
D Knockaderry	M. J. Fleming, Esq., C.E. ...	5	4	0	241 T	54·52 203
D Waterford (Brook Lodge)	C. P. Bolton, Esq., C.E. ...	5	1	0	104 T	47·79 197
D „ (Cove Lodge)	T. N. Harvey, Esq. ...	11	3	8	76	39·70 179
„ („ „)	M. „ „ „	5	1	0	72	42·81 ...
D „ (Tycor)	M. J. Fleming, Esq., C.E. ...	5	0	7	171 T	45·19 175
D Portlaw (Mayfield)	J. Anderson, Esq.	5	4	0	70	48·20 210
D „ (The Gardens, Curraghmore)	Mr. D. Crombie	5	1	0	130	52·35 180
D Glenam [Clonmel]	Miss Grubb	8	1	4	80 T	43·74 229
Sheskin [Carrick-on-Suir]	J. Ernest Grubb, Esq. ...	8	1	2	542 T	47·13 228

DIVISION XX.—MUNSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell
		Diameter	Height Above Ground		Height Above Sea Level	
			ft.	in.	feet.	inches.
TIPPERARY.						
D Clonmel (Bruce Villa)	J. H. Grubb, Esq.	5	1	3	110 T	39·59 217
D Cahir (Duneske)	R. W. Smith, Esq. ...	5	1	0	188	38·52 217
„ Abbey	Mrs. W. Rochfort	5	0	6	...	39·81 187
Ballina [Killaloe]	T. Crosthwait, Esq. C.E.	5	2	0	124 T	53·79 203
D Derry Castle [Killaloe] ...	Mr. T. Manly	5	1	6	580 T	56·07 230
D Nenagh (Castle Lough)	A. Parker, Esq.	5	1	3	120 T	46·46 232
D Ballingarry (Hazelfort)	Mrs. Fraser	5	1	0	...	38·56 212
LIMERICK.						
Adare Manor	The Meteor. Council ...	8	1	0	...	42·02 238
Foynes	„ „ „ „	5	1	0	104	46·36 203
Pallaskenry (Kilcornan)	Mr. J. Smyth	5	1	0	130	30·04? ...
Limerick (Roxborough)	A. W. Shaw, Esq.	8	1	6	112 T	41·44 220
„ (Victoria Terrace)	J. Horan, Esq.	5	1	0	60 T	43·25 224
CLARE.						
Carrigaholt Castle	W. C. V. Burton, Esq.	5	1	0	16	45·27 233
D Killadysert (Paradise Hill)	Rev. H. Henn	5	0	11	105 T	55·35 261
Newmarket-on-Fergus	The Meteor. Council ...	5	1	0	...	50·56 235
D Broadford (Hurdlestown)	Colonel Bentley	5	1	0	167 T	43·45 240
Ennis (Roslevan)	Mrs. Scott	5	1	11	40	45·17 217
D Miltown Malbay	M. Molohan, Esq.	5	1	0	400 T	55·94 254
Inagh (Mount Callan)	The Meteor. Council ...	5	1	0	480	70·06 244
D Lahinch (Moy House)	Miss Bowes	5	1	0	53	46·31 249
D Ennistymon House	HV Macnamara, Esq DL	5	0	6	38	52·21 248
D „ Rectory	Rev. C. W. McDowell..	5	1	0	132	51·95 223

DIVISION XXI.—LEINSTER.

WEXFORD.						
D New Ross (Longraigue)	J. W. Deane, Esq.	5	1	0	210 T	44·84 202
D Wexford (Bann-aboo)	Col. Magrath	8	4	0	9	42·54 176
D Templeudigan (Ballindoney) ...	J. Budgen, Esq.	5	1	0	434 B	51·23 212
D Enniscorthy (Ballyhyland)	Mrs. Moffat	5	1	0	365 T	49·61 220
„ (Monksgrange)	Mrs. Orpen	5	1	0	565 B	60·04 ...
D Gorey (Courtown House)	Rt Hon Earl of Courtown	5	3	0	80 T	40·85 177
KILKENNY.						
D Rockenham [Waterford]	A. E. Graves, Esq.	8	2	6	140 T	48·07 183
Piltown (Bessborough)	Mr. J. G. Weston	8	3	6	...	40·11 171
D Graigue (Brandondale)	R. R. Burtchaell, Esq.	5	2	0	90 T	46·35 151
Kilkenny Castle	The Meteor. Council ...	8	1	0	208	39·22 205
D „ (Sion Villa)	J. O'Connell, Esq., C.E.	5	1	0	198	38·63 225
„ („ „) weekly g. ....	„ „ „ „ .....	...	...	...	...	38·38 ...
„ (Millmount)	R. Collis, Esq.	5	2	0	180	38·78 213
Goresbridge (Barraghscore House)	H. de M. Fleming, Esq.	5	1	0	130 T	37·67 220

DIVISION XXI.—LEINSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
WICKLOW.						
d Laragh (Glendalough)	WyndhamHWynneEsq	5	2 9	460 T	65·40	231
Roundwood (Vartry Lodge)	SpencerHarty, Esq. C.E.	5	1 0	720	50·46	189
"	" " "	5	1 6	800 T	49·56	...
" (Knockatemple)	" " "	5	1 6	760 T	48·83	...
Newcastle (Killadreenan)	B. H. Steede, Esq., M.D.	8	1 2	255 T	37·25	177
Tithewer	SpencerHarty, Esq. C.E.	5	1 6	1000 T	41·58	...
Annacarter	" " "	5	1 6	750 T	54·25	...
Greystones (Knockdolian)	RCathcartDobbsEsq CE	5	1 2	68 T	42·72	194
d†Bray (Fassaroe)	R. M. Barrington, Esq.	10	5 0	250	45·24	210
CARLOW.						
Bagnalstown (Fenagh House)	D. R. P. Beresford, Esq	5	1 0	340	41·10	197
" (" ") new g. M.	" " "	5	1 0	...	40·98	...
d Carlow (Browne's Hill)	W. BrowneClayton, Esq	5	1 0	291 T	45·84	215
QUEEN'S COUNTY.						
Abbey Leix (Blandsfort)	J. L. Bland, Esq.	5	3 0	532 T	46·95	256
KING'S COUNTY.						
d Parsonstown (Birr Castle)	RtHonEarlofRosseFRS	8	1 0	180	38·60	212
d Banagher	Mr. J. Deegan	5	1 6	170	39·33	146
Tullamore	Rev. R. S. Craig	5	1 0	201 T	36·05	...
KILDARE.						
d Castledermot	Rev. M. Walsh	5	2 8	...	37·30	195
d Monasterevin (Moore Abbey)	Mr. A. Whitelaw	5	1 0	236 T	38·31	220
d Straffan House	Mr. F. Bedford	5	2 0	240 T	43·27	205
DUBLIN.						
d Glen-na-Smoel (Water Works)...	F. P. Dixon, Esq., C.E.	5	1 6	516 T	64·69	259
Carrickmines (Claremont)	Sir J. W. Moore, M.D..	...	...	...	35·81	...
d Ballybrack (Streamville)	F. B. Falkiner, Esq....	5	1 5	30 B	35·39	209
Killiney (Clonevin)	R. O'B. Furlong, Esq..	5	1 0	250 T	35·35	205
d Rathmines (Terenure)	F. P. Dixon, Esq., C.E.	8	0 6	125 T	33·48	209
" (Leinster Road)	E. H. Cannon, Esq. ...	5	1 0	170	34·00	206
d Donnybrook (Seaview Terrace)..	Rev. A. C. Digby French	5	0 9	15	30·91	203
d†Dublin (Fitz William Square) ...	Sir J. W. Moore, M.D.	8	1 6	54 T	34·34	216
d " (Phoenix Park)	Major C. Haynes, R.E.	8	1 0	155 T	37·22	230
d Lucan (The Garden)	Mr. P. Reid	5	1 0	105 T	35·52	176
d Glasnevin (Botanic Gardens) ...	F. W. Moore, Esq. ...	8	1 0	68 T	37·55	222
d Balbriggan (Ardgillan)	Capt. Taylor	5	1 0	211 T	34·50	205
" (")	" " "	8	1 0	211 T	34·91	...
d " (Laragh)	Rev. S. P. Warren	5	1 0	57 T	34·03	224
MEATH.						
d Summerhill House	Rt. Hon. Lord Langford	5	1 0	372 T	39·03	224
d Athboy	C. P. Coghill, Esq.	8	1 3	227	43·12	192
Kells (Headfort)	The Marquis of Headfort	5	3 6	230	48·56	241

DIVISION XXI.—LEINSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
<hr/>						
MEATH—(con.)						
D Moynalty (Westland)	W. A. Barnes, Esq.	5	1 2	260 †	39·98	231
D Drumconrath (Aclare House) ...	Admiral Singleton, C.B.	10	2 6	170 †	40·54	238
D „ (Corstown House) „ „ „	„ „ „	5	3 0	153 †	33·00	163
WESTMEATH.						
Athlone (The Moorings)	Capt. J. Preston.....	5	1 0	175	40·00	...
D „ (Twyford)	J. P. Hodson, Esq.....	5	5 0	188 †	44·60	234
D Mullingar (Belvedere)	Mr. J. Bayliss	5	1 0	367 †	42·92	202
Streete (Daramona)	W.E. Wilson, Esq., FRS	10	1 0	270	38·57	238
LOUTH.						
D Ardee (Lissrenny) .. .	T. F. Filgate, Esq.....	8	0 10	75 †	37·80	232
Dundalk (Farndreg)	J. Barton, Esq.	5	1 0	90 †	30·49?	195
D†Greenore.....	T. Chambers, Esq.....	5	1 0	4 †	39·91	179
LONGFORD.						
Cloondraha	T. Crosthwait, Esq., C.E.	5	2 0	130	36·13	274

DIVISION XXII.—CONNAUGHT.

GALWAY.						
D Woodpark [Scariff]	R. F. Hibbert, Esq. ...	5	1 0	170 T	47·88	229
D Ballinasloe	W. H. Kempster, Esq.	5	3 0	160 T	47·92	237
D Woodlawn	Mr. A. Porter.....	5	3 6	300 T	49·26	235
D Ahascragh (Clonbrock)	Rt. Hon. Lord Clonbrock	10	5 4	200 T	53·23	157
Recess Hotel	Mr. A. A. Smith.....	5	1 0	90	64·47	238
Clifden (Kylemore House)	Mr. T. McNab	5	1 0	105	75·53	208
D „ („ Castle)	Mr. W. Comfort.....	5	0 9	170 T	71·07	251
D Tuam (Castle Hacket)	Miss Bernard	5	1 0	...	45·21	...
„ (Gardenfield)	M. H. Kirwan, Esq.	5	1 0	155 T	50·16	...
„ („) ... Snowdon „ „ „	„ „ „	5	6 0	160 T	49·99	...
ROSCOMMON.						
Athlone	T. Crosthwait, Esq., C.E.	5	2 0	128 T	40·73	210
Rooskey	„ „ „	5	2 0	139 T	39·01	246
MAYO.						
D Cong (The Glebe)	Rev. R. Y. Lynn	5	1 11	112 T	55·66	242
Ballinrobe (Cranmore) ...	Miss Knox	5	0 9	99	56·60	...
D Westport (Murrisk Abbey)	F. C. Garvey, Esq.....	5	1 1	18	55·01	253
D Achill (Coraun House)	C. Scrase Dickins, Esq.	5	0 10	39	58·65	166
D Newport (Burrishoole House) ...	H. M. Anketell Jones Esq	5	3 6	30	51·35	206
D Doo Castle [Tobercurry]	Mr. D. O'Dowd	5	1 0	...	47·62	226
Blacksod Point	The Meteor. Council '...	...	...	...	57·57	269
Crossmolina (Enniscoe)	J. Pratt, Esq.....	5	0 11	74 T	63·79	285

DIVISION XXII.—CONNAUGHT—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1900	
			ft. in.	feet	inches.	
SLIGO.						
Ballymote (New Park)	R. A. Duke, Esq.	5	1 2	228	48·85	...
d Collooney (Markree Observatory)	F. W. Henkel, Esq. ...	5	1 0	130	45·26	251
d " " " "	" " " "	5	16 6	148	39·46	243
d Ballysadare Bay (Glen Lodge)...	Vernon Cochrane, Esq.	5	1 0	14	49·87	218
LEITRIM.						
Jamestown (Albert Lock)	T. Crosthwait, Esq., C.E.	5	2 0	146	36·82	209
Carrigallen	The Meteor. Council ...	...	...	...	42·74	215
Drumshanbo	T. Crosthwait, Esq., C.E.	5	2 0	169	42·21	146

DIVISION XXIII.—ULSTER.

CAVAN.							
d Stradone House	Mr. J. Hart	5	1	0	280	42·78	186
Cavan (Water Works)	M. W. H. Morris, Esq. C.E.	8	...	...	304	40·40	...
d Killeshandra (Castle Hamilton)..	W. J. Hamilton, Esq...	5	1	0	251	31·65	214
d Belturbet (Cloverhill)	Mrs. Sanderson	5	1	0	202	37·67	223
d „ (Red Hills)	Mrs. Whyte Venables..	5	0	9	208	29·18?	173
d Ballyconnell House	Surg.-Gen.S.B.Roe, CB	8	1	2	196	45·31	228
FERMANAGH.							
Enniskillen (Model School)	Mr. J. T. Abraham ...	5	1	0	160	43·23	237
MONAGHAN.							
d Dartrey [Cootehill]	Mr. F. Prince	5	2	6	265	39·73	201
d Monaghan (Rowantree House)...	Dr. J. C. Hall.....	5	5	6	240	35·90	200
ARMAGH.							
d† Bridge Street [Newry]	J. L. D. Meares, Esq. C. E.	5	0	9	22	43·19	219
d Armagh Observatory	Dr. Dreyer ..	8	1	0	205	36·45	227
Rich Hill (Fruitfield)	Messrs. Lamb Bros. ...	5	3	9	...	34·41	...
d Loughgall (Manor House)	Mrs. Cope	5	1	0	205	36·84	201
d Lurgan (Belle Vue)	S. A. Bell, junr., Esq..	5	0	5	200	33·72	187
DOWN.							
d† Warrenpoint (Summer Hill).....	B. M. Kernan, Esq. ...	5	1	0	30	42·12	176
d Rathfryland (Ballynagappoge)...	J. Smyth, Esq., C.E....	5	1	0	300	37·23	174
† Castlewellan (Lough Island) ...	„ „ „ „	5	1	0	440	49·19	193
Banbridge (Katesbridge)	A. Mulligan, Esq.	5	1	0	230	31·93	151
d Seaforde	Rt. Hon. Col. Forde ...	8	0	5	180	44·07	205
d Banbridge (Corbet Reservoir) ...	J. Smyth, Esq., C.E....	5	1	0	234	32·31	152
d† „ (Milltown)	„ „ „ „	8	0	8	220	34·02	204
d† Waringstown	Holt Waring, Esq. ...	8	0	8	191	37·36	166
Donaghadee	The Meteor. Council ...	8	1	6	30	37·77	232

DIVISION XXIII.—ULSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1900	Days on which "01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level.		
			ft. in.	feet.	inches.	
ANTRIM.						
Stonyford (Belfast W. W.) ...	FWMcCullough Esq. CE	5	1 6	437	42·56	215
† Belfast (Queen's College)	Mr. G. A. Robinson ...	11	7 4	68	40·56	200
D " (Linen Hall Library) ...	G. Smith, Esq.	5	4 9	17	40·04	185
D " (Springfield)	T. G. Firth, Esq.	5	1 0	150	45·89	248
† " (Antrim Road)	FWMcCullough Esq. CE	5	7 0	144	42·13	196
Antrim (Ardnaveigh)	H. B. Murray, Esq. ...	6	1 0	210	40·36	193
Carrickfergus (Dorisland)	FWMcCullough Esq. CE	5	1 0	250	46·84	246
" (South Woodburn)	" " "	5	1 0	640	50·75	240
" (North Woodburn)	" " "	5	1 0	735	53·55	243
" (Copeland)	" " "	5	1 0	424	49·38	256
" (Lough Mourne) ...	" " "	5	1 0	596	51·53	255
Ballynure (Ballyboley)	Mr. T. H. Craig	5	1 4	400	46·55	...
D Ballymena (Harryville)	J. R. Williams, Esq. ...	5	1 5	150	46·93	239
D Broughshane (Quolie)	H. O'Hara, Esq.	5	1 4	893	64·83?	252
Ballymoney (Balnamore)	W. H. Lawlor, Esq. ...	5	1 5	50	40·75	231
Stranocum (Gardenvale)	A. McNeill, Esq.	5	1 0	160	46·65	204
D Bushmills (Dundarave)	Sir F. E. Macnaghten, Bt	5	1 0	162	42·29	226
LONDONDERRY.						
D Garvagh (Moneydig)	H. R. Morrison, Esq. ...	5	1 0	121	43·36	191
D Londonderry (Clooney Terrace) ..	Mr. J. Conroy	5	1 0	68	44·87	255
" (The Asylum)	T. Campbell, Esq.	5	1 0	36	45·12	242
D " (Creggan Res.)	Mr. J. Hutchison	8	1 0	320	45·35	267
Limavady (Drenagh)	C. T. McCausland, Esq	5	1 0	80	42·33	248
D Coleraine	W. R. Kennedy, Esq. ...	5	4 0	52	45·09	241
TYRONE.						
D Stewartstown (The Square)	A. Johnston, Esq.	5	1 4	300	44·54	206
D Omagh (Edenfel)	Col. Buchanan, C.B. ...	8	1 0	280	46·60	235
D Newtown Stewart (Baron's Court)	Mr. R. Bell	5	1 0	250	48·94	208
DONEGAL.						
Killybegs ...	A. Brooke, Esq.	5	1 0	30	57·93	270
Raphoe (Convoy House)	the late Col. Montgomery	5	1 0	150	43·72	227
Rathmullan	Dr. Loughnan	5	1 0	1	43·22	...
D Buncrana (Rockfort)	T. Colquhoun, Esq. ...	5	1 0	40	45·02	232
Ardnadrean Rectory	Rev. W. S. Griffiths ...	5	0 10	39	51·76	...
D Horn Head	C. F. Stewart, Esq. ...	5	1 0	163	49·12	252
D Lough Swilly (Carrablagh)	H. C. Hart, Esq.	5	1 0	130	47·39	253

H. S. W.
H. R. M.