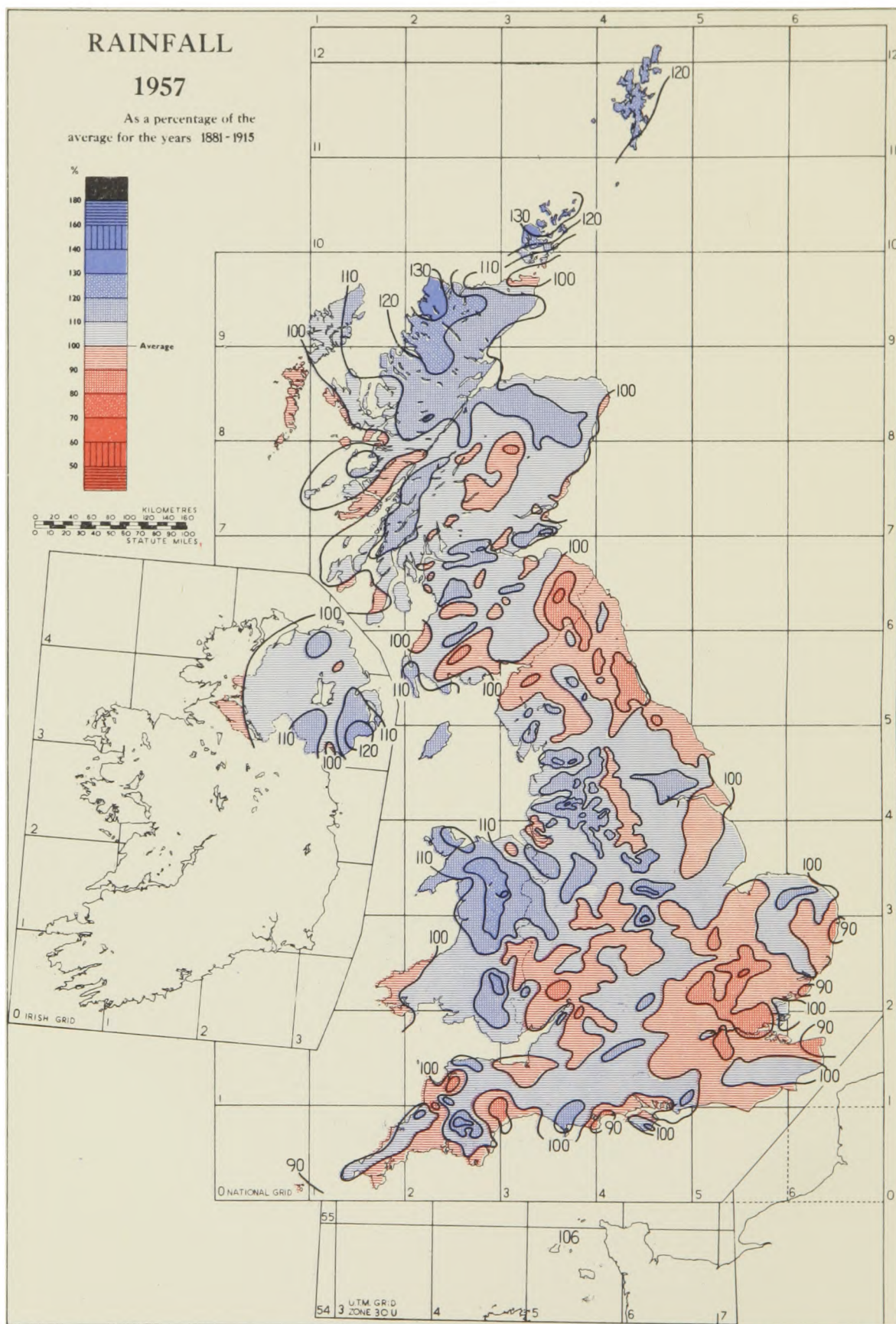
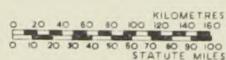
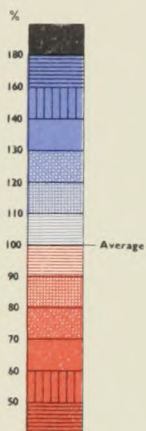


RAINFALL

1957

As a percentage of the
average for the years 1881-1915



M.O. 663

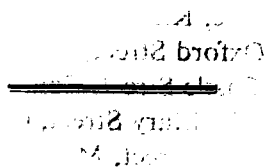
AIR MINISTRY

METEOROLOGICAL OFFICE

BRITISH RAINFALL

1957

THE NINETY-SEVENTH ANNUAL VOLUME



Report on the Distribution of Rain

in space and time over Great Britain
and Northern Ireland during the year 1957
as recorded by about 5,000 observers

WITH MAPS



LONDON

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1960

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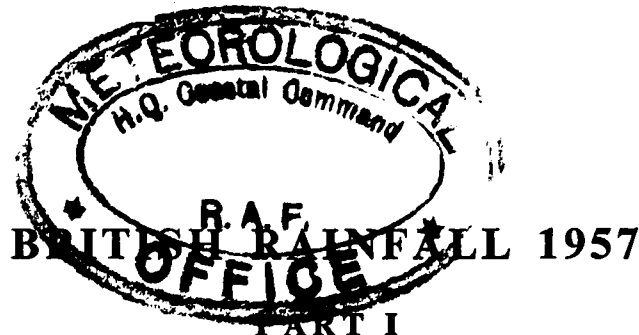
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1 The Work of the British Rainfall and Hydrology Branch of the Meteorological Office

"BRITISH RAINFALL." Some important changes are introduced in this volume of British Rainfall. They represent the early stages of a general scheme of development in the processing and presentation of rainfall data now being planned, which was briefly foreshadowed in *British Rainfall* 1956.

In the General Table forming Part II of this volume, particulars of the instruments installed at stations have been omitted in order to make room for the grid references of stations. The details omitted are now standard for the majority of stations; diameter of gauge 5 in. and height of rim above ground 1 ft. A moderate number of 8 in. diameter gauges are still in use, there are still a few gauges of other diameters, and there is still a regrettably large minority of stations where the rim is not at the standard height of 1 ft. But continued progress towards complete standardization can be expected, and as a result of a greatly intensified programme of inspections in recent years the decreasing number of non-standard stations can no longer be regarded as important, not at any rate to the extent that much valuable space can be used year after year simply to draw attention to these stations. A proposal for the future is that any station which is non-standard in any way will be simply marked with an asterisk in the General Table, and any detailed information about the station which may be required will be available from the Meteorological Office.

The collection and checking of the grid references of rainfall stations, which are now being published for the first time, was a very large task. This and other work of similar

detailed nature which is now going on, in order to provide readily available accurate information for future rainfall work, accounts largely for the delays which are occurring in the preparation of current volumes of *British Rainfall*. Apologies are offered for these delays in the confident expectation that they will be justified within a few years by the more prompt publication of an improved version of *British Rainfall*. Unfortunately it was not possible to secure acceptable grid references from all rainfall observers and authorities in time for inclusion in the present volume. It was considered proper, however, to go forward with the plan with about 80 per cent of the references available, and with the intention of improving the list in each subsequent year. In this respect improvement must of course also refer to accuracy in the references published. It is too much to hope that the accuracy aimed for, in the 100-metre form of reference adopted, has been uniformly achieved in this first step. Corrections will at all times be welcomed.

The grid references of rainfall stations will be particularly useful in special work of many kinds (in connection for instance with flood investigations and water-supply problems) for which large-scale maps are used. The form of reference adopted aims at an accuracy fully appropriate for 1 in. to the mile (1:63,360) Ordnance Survey maps (or any smaller scale). This degree of accuracy will also serve with 1:25,000, or tolerably well even with 6 in. to the mile (1:10,560) O.S. maps, which are occasionally used. Such special work rarely appears in published form, however, at any

rate with full-scale reproduction of the basic maps. The same also applies to much of the routine rainfall work of the Meteorological Office on the $\frac{1}{2}$ in. and $\frac{1}{4}$ in. to the mile scales of gridded maps. But the increasing emphasis on accurate large-scale map work has been reflected in a complete review of all mapping techniques in rainfall work; for the general monthly and annual routine of plotting rainfall maps (in inches) over the United Kingdom, a gridded map on the scale of 1:625,000 (approximately $\frac{1}{10}$ in. to the mile) has now been adopted as standard. This is a great improvement on the old standard map, for such routine work, on a scale of $\frac{1}{16}$ in. to the mile. The introduction of the new base map has been accompanied by a revision of the form of map used for reproduction in *British Rainfall*. This new form of published map, which has already appeared regularly in the Monthly Weather Report (from January 1959), and occasionally elsewhere, forms the second major change in the present volume of *British Rainfall*.

In the next volume of *British Rainfall*, for 1958, another important change will be the introduction of rainfall averages for the period 1916–50, to replace those for the old standard period of 1881–1915. This also is a change which has required, and is still requiring, a very large amount of work. Further changes related to the introduction of machine methods of processing rainfall data, and to the increasing interest in hydrology in Britain, will later be introduced, as already mentioned in *British Rainfall* 1956. A suggestion which is receiving serious consideration, arising particularly from the possibilities of machine processing, is that an increasing amount of information should be presented in the form of self-explanatory tables, diagrams and maps, with a large reduction in the discursive text of most sections of the volume. Comments on the suggestion would be welcomed. In this connection special attention is drawn to the opening words of Sections 2, 3 and 4 of this volume, and to similar remarks elsewhere, which have now been more or less standard for

a number of decades. Where large amounts of data are handled annually by the old conventional methods, it is necessary for statistical purposes to adopt certain fixed conventions, which may often be quite arbitrary. It has been only with great reluctance that some of these arbitrary statistical definitions have been retained for so long, since misunderstanding can easily arise through confusion between the statistical definition of a term and either a popular usage or some other quite justifiable application of the same term. Confusion of this kind has arisen, for instance, in connection with the terms “drought” and “wet-day”. When sufficient data are available in a form suitable for analysis by machine methods, the need for fixed statistical definitions will disappear. The laborious collection of a “homogeneous series of statistics” based on such definitions can then be replaced by rapid machine analysis yielding, for instance, the complete frequency distributions of rainfall amounts, or of spells of consecutive days with amounts in specified categories. When this stage is reached a major purpose of *British Rainfall* will be to serve as an index to the types of detailed analysis which will be readily available to users who require them. Until that time, for a few years more, the arbitrary definitions are being retained, but with renewed emphasis on their statistical nature, to avoid confusion with other permissible meanings of the terms used.

THE OBSERVERS. The information on the rainfall in 1957 presented in this volume is based on the collection of more than 5,500 returns of rainfall received from all parts of the country. The goodwill of the observers and authorities who voluntarily forward copies of their observations for preservation is gratefully acknowledged. Without their co-operation the compilation of *British Rainfall* would not be possible. A discussion of some current trends in rainfall work, and of the types of observers and authorities who contribute rainfall observations, was included in *British Rainfall* 1956.

Data for new stations are included from private observers in all parts of Great Britain and Northern Ireland, particularly from southern and eastern England, with a notable number of new records in Somerset, Essex, Hertfordshire and Lincolnshire. Among organizations which have established or helped to establish new stations are the Nene River Board and Trent River Board in England and the North of Scotland Hydro-Electric Board in various areas in Scotland.

The total number of records in Part II of this volume is 5,022, a small increase in comparison with 1956, largely due to new Scottish records.

Rainfall data for earlier years were received from many sources. Among these may be mentioned the records kept at Bletchley (Sewage Works) for the years 1930–56, kindly supplied by the Surveyor, Bletchley Urban District Council; at Sparsholt for 1938–56 from the Principal, County Farm Institute; and at Roydon (Pumping Station) and Sawbridgeworth (Pumping Station), 1946–55, from the Chief Engineer, Herts and Essex Water Company.

CO-OPERATION WITH OTHER BODIES. The description given in *British Rainfall* 1956 of Meteorological Office representation on various committees and of co-operation with other organizations in rainfall and hydrological work remains broadly valid. The results of this work become available from time to time in the form of official reports or of papers contributed to the appropriate journals. In the report of the Sub-Committee on Information on Water Resources of the Central Advisory Water Committee, published early in 1959, the importance of the work done by observers contributing to *British Rainfall* was, by implication, given very high level recognition.

The influence of afforestation on water resources is receiving increasing attention in the United Kingdom, and among the more recent investigations in which the Meteorological Office has already co-operated are

afforestation investigations in three areas in Northern Ireland under the Ministry of Health and Local Government, Belfast, and the Belfast Water Commissioners, and investigations in a wood near Oxford which are being undertaken by the Imperial Forestry Institute, Department of Forestry, University of Oxford.

The North of Scotland Hydro-Electric Board are making investigations, in collaboration with the Meteorological Office, into the measurement of rain in rugged country and into the development of new types of rain-gauge.

SNOW SURVEY OF GREAT BRITAIN. A report on the Snow Survey of Great Britain for the season 1956–57 is published in Part III of this present volume, the first occasion on which it has appeared in *British Rainfall*. Advance copies of the report were sent to Snow Survey observers in December, 1957. The basic information from which the annual reports are prepared is obtained from the monthly reports made by these voluntary observers giving daily records of snowfall and of snow-cover within sight. Additional data are obtained from the returns made by voluntary climatological stations and official Meteorological Office stations.

AVERAGES OF RAINFALL 1916–50. “Averages of rainfall for Great Britain and Northern Ireland 1916–1950” (M.O. 635) was published by H.M.S.O. late in 1958. This will remain the basic publication for the new standard period for at least two decades. It contains information for more than 700 stations for which reliable observations were received throughout the 35-year period. Work is continuing on the systematic extraction of standard-period averages for the very much larger number of stations with incomplete observations during the period. It is not expected that full information about average rainfall for the new standard period will be available before about mid-1961, but the work is being advanced as rapidly as possible, and large areas of England and Wales have

already been covered in detailed surveys. Meanwhile averages for the new period have been introduced as the reference level for most routine rainfall work in publications dealing with data for January 1959 onwards.

SURFACE WATER SURVEY. The Surface Water Year Book of Great Britain, 1955–56, published by the Ministry of Housing and Local Government and Scottish Office, contains details of flow records for 128 areas. Estimates of the corresponding monthly rainfall were supplied for publication for more than 98 of the areas. Estimates of the monthly rainfall were also supplied for inclusion in the 1956–57 Year Book.

INSPECTIONS. Towards the end of 1957 a very marked intensification of the programme of rainfall station inspections became possible, and very good progress has been maintained since that time. During the calendar year 1958 more than 900 rain-gauges were inspected in Great Britain and Northern Ireland, and as far as is known such an annual rate has never before been approached. Districts visited are too numerous to list, but it is appropriate to make a general acknowledgment of the great help received by the engineers of river boards, water supply undertakings, and other organizations and of the very co-operative attitude shown by the overwhelming majority of private voluntary observers. Inspections in Scotland, undertaken from the Meteorological Office in Edinburgh, were maintained at a rate, in relation to the total number of stations, very similar to that in England and Wales, a notable achievement in view of the nature of the country. The results of inspections in the last few years are becoming increasingly apparent in the quality of rainfall work. In many cases where a gauge, after inspection, has been moved a short distance to a better site, a discontinuity in the records may become apparent after a few years' further observations. It is not practicable to include full

information about such matters in *British Rainfall*, but the information is available from the Meteorological Office to users who become aware of any such discontinuities in the course of work with data published.

INQUIRIES. As in previous years inquiries regarding rainfall in various parts of the country covered a very wide field. They included many requests for information about the rainfall experienced during specified periods in specified localities, the supply of monthly and annual average rainfall for given areas, and advice on the provision of equipment and the best exposure for rain-gauges. Information was supplied in connection with water supply, drainage and hydro-electric schemes, including estimates of average annual rainfall in connection with additional water-supply schemes in Staffordshire and the Tees Valley, and for Grangemouth, Oxford, Luton, Worthing and Torquay.

As in previous years, information was supplied monthly for publication in *Water and Water Engineering* and the *Meteorological Magazine*, while monthly reports on the rainfall of Great Britain and Northern Ireland were furnished to the British Waterworks Association and to certain Government Departments. Detailed reports were supplied each month to the Metropolitan Water Board and the Thames and Lee Conservancies. A comprehensive annual report was also prepared for the Metropolitan Water Board. The regular monthly issue of rainfall maps and data to industrial firms, Government Departments, consulting engineers and local authorities was continued.

The Meteorological Office, Edinburgh, dealt with numerous inquiries from legal and insurance firms and from the Press. The non-routine inquiries covered a wide variety of subjects such as water-supply, drainage, erosion, agriculture, forestry, horticulture, and industrial problems.

The exchange of information with the Director of the Meteorological Service of the Irish Republic was continued.

DR. J. GLASSPOOLE. At the end of 1957 Dr. J. Glasspoole retired from his post in the Meteorological Office after nearly 38 years' service. Dr. Glasspoole started his career in the British Rainfall Organization under Dr. H. R. Mill in 1916, before the organization was taken over by the Meteorological Office. He had thus been closely associated with rainfall work for more than 40 years, and his retirement brought to an end the last remaining personal link with the British Rainfall Organization in its earlier form, when it was a private body.

Towards the end of his career, Dr. Glasspoole was awarded two significant honours: in March 1957 he was elected an Honorary Member of the Institution of Water Engineers, as reported, with an account of his work, in the *Journal of the Institution* for May 1957; and in June 1957 he was appointed a Companion of the Imperial Service Order for long and meritorious service in the Meteorological Office. A further appreciation of Dr. Glasspoole's work was published after his retire-

ment in the *Meteorological Magazine* for April, 1958.

OBITUARY. During the twelve months ending June 30, 1958, reports were received of the deaths of 23 observers who had contributed to volumes of *British Rainfall*. Of these, the following four kept rainfall records for 35 years or more.

Miss E. S. Dunlop contributed rainfall records from Shieldhill, Biggar, from 1908 to 1940 and from Huntfield, Biggar, from 1941 until her death early in 1958.

Major A. C. F. Luttrell maintained a rainfall record at Edington Manor, Bridgwater, from 1920 until his death in January, 1957.

Mr. G. A. Goodchild sent rainfall records from Great Yeldham, Essex, for 46 years, from 1912 to 1957. He died in February, 1958, but his daughter is continuing this long and valuable record.

Mrs. E. L. Burt began rainfall observations at Braintree, Essex, in 1923 and kept them for 35 years. She died in April, 1958.

2 The Distribution of Rain in Time

THE NUMBER OF RAIN-DAYS AND WET-DAYS IN 1957

To obtain a homogeneous series of statistics the following definitions are used in *British Rainfall*:

A rain-day is a period of 24 hours, commencing normally at 9 a.m., during which $\cdot 01$ in. or 0.2 mm. or more of rain is recorded.

A wet-day is a period of 24 hours, commencing normally at 9 a.m., during which $\cdot 04$ in. or 1.0 mm. or more of rain is recorded.

The former definition dates from the year 1865; the latter was adopted in 1919.

Maps showing the annual distribution of wet-days over the country have been included in *British Rainfall* since 1919. Maps showing the distribution of annual and monthly average numbers of rain-days have been published in the *Climatological Atlas of the British Isles*, but similar maps of wet-days have not yet been prepared.

Information as to the number of rain-days and wet-days in 1957 is set out in this volume in various forms. The General Table of rainfall shows the annual numbers of rain-days and wet-days at stations where daily observations are recorded. The distribution of the number of wet-days is shown on the map reproduced on p. 7.

A comparison of the number of wet-days over England and Wales in each month of 1957 with corresponding figures for the previous 14 years and also with the average values for 30 years (1919–1948) is facilitated by Table 2A.

To study the distribution of rain-days and wet-days throughout the year, 82 stations have been selected to represent as uniformly as possible conditions over Great Britain and Northern Ireland. The same stations have been used in the preparation of Table 3c,

Droughts and Dry Spells, and of Table 4c, Rain Spells and Wet Spells. The numbers of rain-days and wet-days recorded at these stations are given in Table 2B. The monthly mean values for England and Wales, Scotland and Northern Ireland are shown in the table. Computed average numbers of rain-days for the period 1881–1915 are also given for England and Wales and for Scotland for purposes of comparison. The monthly rainfall amounts for the 82 stations are included in Table 8c.

The map of the annual number of wet-days in 1957 shows a distribution which, in the main, is similar to that in earlier years. Broadly speaking the number of wet-days increases from the south-east to the north-west and from the plains of the east coast to the mountainous regions of the west.

There were 132 wet-days in 1957 over England and Wales as a whole, which was 16 less than the average and 7 more than in the previous year. Scotland had 171 wet-days, 3 less than the 1919–53 average but 2 more than the previous year. Northern Ireland's total of 176 wet-days was 5 more than in the previous year, and 1 more than the average in the series since 1940.

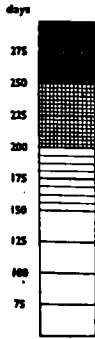
In 1957 there were fewer than 100 wet-days at a number of places around the Thames Estuary, in small areas of Bedfordshire, Hertfordshire and near Cambridge. Totals exceeding 200 wet-days were reported from the mountains of north Wales and Antrim, the Western Highlands and the Cambrian Mountains. Among the selected stations the range was from 100 wet-days at Cambridge and Shoburyness to 212 wet-days at Mull.

The number of rain-days over England and Wales as a whole was 179, or 9 fewer than the 1881–1915 average, and over Scotland there

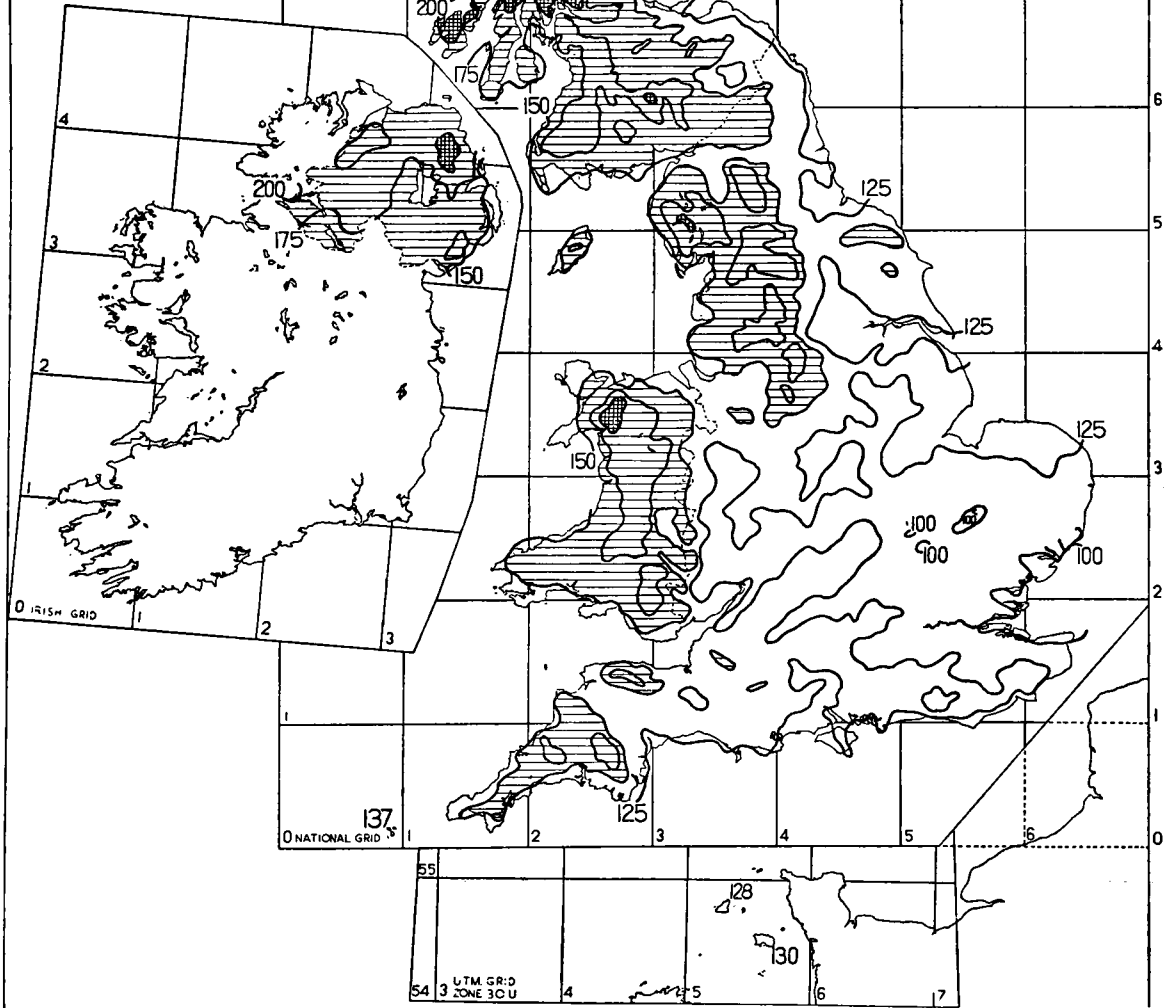
WET DAYS

1957

Days with .04 in. or more of rain



0 20 40 60 80 100 120 140 160
KILOMETRES
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES



were 223, or 6 more than average. The 225 rain-days for Northern Ireland is 6 less than the average for this series since 1940. Compared with the previous year, 1957 had one more rain-day over England and Wales and also over Scotland but 6 less over Northern Ireland. The range over Great Britain and Northern Ireland at the selected stations was from 143 at Shoeburyness to 265 at Loch Ness (Garthbeg). Fewer than 150 rain-days occurred along parts of the Channel coast between Bexhill and Sidmouth and in numerous small areas of the Midlands, east and south-east England. A number of places in the Western Highlands of Scotland recorded more than 275 rain-days.

The months with the greatest number of rain-days were January, February, July and September, each with 19, over England and Wales, January with 23 over Scotland, and March with 25 over Northern Ireland. The last figure is the highest March total recorded over Northern Ireland since records in this series commenced in 1940. The smallest number of rain-days occurred in April over England and Wales, the 6 recorded being the

lowest April figure since 1938 when there were 4, although 6 rain-days in April were recorded as recently as 1954. Over Scotland the lowest monthly total was 14: this occurred in May and also in June. June and November, each with 11, had the smallest number of rain-days over Northern Ireland, where no November since 1940 has recorded as few as 11 rain-days.

The number of wet-days was least in April over England and Wales, where this month gave 3 wet-days, less than in any April since 1938. The total of 9 wet-days for the months April, May and June is the lowest for this period since before 1919. The lowest monthly total of wet-days over Scotland, 10, occurred in both April and May, while June with 8 wet-days showed the lowest monthly total over Northern Ireland.

Amongst the selected stations the largest number of both rain-days and wet-days in any month, 31 and 29, occurred at Loch Duich (Ratagan) in October. Ross-on-Wye failed to report a single rain-day in April, while in the same month there were no wet days at Cambridge, Taunton and Teignmouth.

**Table 2A Monthly Number of Wet-Days (Days with .04 inch or more)
over England and Wales 1943-1957**

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1943	20	8	5	8	10	10	9	14	12	12	15	8	131
1944	13	9	4	9	6	11	11	9	13	16	19	12	132
1945	13	13	6	8	13	14	8	10	11	10	5	15	126
1946	12	12	7	8	10	15	10	16	16	6	18	16	146
1947	14	8	20	11	11	11	11	2	9	5	12	12	126
1948	22	10	6	9	9	15	8	14	9	11	9	13	135
1949	9	7	7	9	10	4	6	7	6	15	16	14	110
1950	7	16	8	15	9	8	12	16	18	9	18	13	149
1951	15	17	17	12	12	7	7	16	11	6	20	14	154
1952	15	6	11	10	10	9	6	12	13	14	13	16	135
1953	6	9	4	12	9	10	14	10	11	9	10	8	112
1954	10	14	12	4	11	12	13	15	16	15	18	12	152
1955	12	13	7	7	15	10	3	5	9	9	8	16	114
1956	17	7	6	7	5	11	12	18	11	9	7	15	125
1957	13	15	13	3	9	7	15	13	15	10	7	12	132
Average*	15	11	10	11	10	9	11	11	11	12	13	14	138

* Average for 30 years, 1919-1948.

Table 2B. Number of Rain-days (.01 in. or more) and of Wet-days (.04 in. or more) in 1957

County and River Division	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Total Rain- fall.
ENGLAND AND WALES															in.
London2	St. Pancras (Camden Square).	14 10	18 12	12 8	6 3	14 9	7 4	19 15	15 8	16 14	9 9	10 7	14 10	154 109	22.35
Kent1	Dover (Waterloo Crescent) . . .	21 12	22 19	15 9	9 4	15 8	5 2	14 14	12 7	18 15	9 8	14 9	14 8	168 115	29.41
"4	Edenbridge (Falconhurst) . . .	20 13	18 16	14 7	5 4	13 9	9 8	18 14	13 13	17 13	9 8	9 7	15 12	160 124	30.92
Sussex3	Worthing (Beach House Park)	17 12	20 17	14 9	3 1	11 5	9 7	19 15	14 10	19 12	12 8	7 5	17 12	162 113	25.30
Hampshire . . .1	St. Catherine's Pt. Lighthouse	17 14	22 16	13 12	4 4	8 6	8 4	15 11	13 11	17 14	9 9	8 6	17 13	151 120	28.17
"4	Southampton (East Park) . . .	18 10	22 19	15 12	3 1	10 9	10 10	19 16	14 11	17 12	13 9	6 5	16 14	163 128	29.94
"8	South Farnborough (R.A.E.) . .	14 10	20 16	14 10	6 4	12 7	11 6	20 16	15 9	19 13	9 7	9 7	15 11	164 116	23.65
Hertford2	Harpden (Rothamsted) . . .	19 9	18 13	14 9	8 3	11 10	11 9	17 12	17 12	17 12	13 9	10 6	18 11	173 115	23.82
Oxford3	Oxford (Radcliffe Met. Stn.) . .	18 12	17 15	13 11	6 2	13 6	11 7	21 15	16 10	19 13	14 8	9 7	14 12	171 118	28.07
Northampton 4	Wellingborough (Swanspool) . .	18 12	19 13	14 13	7 3	11 9	13 7	18 13	15 11	17 14	12 8	7 5	15 11	166 119	25.59
Huntingdon . .1	Whittlesea Mere	15 7	14 9	13 10	3 2	11 6	14 8	14 11	16 10	16 14	10 7	7 5	15 13	148 102	20.57
Cambridge . . .2	Cambridge (Botanic Gardens)	15 9	13 11	17 11	3 0	11 5	12 9	15 14	17 11	14 10	10 7	8 4	14 9	149 100	19.67
Essex3	Shoeburyness	16 10	15 11	12 6	2 2	13 6	7 5	15 14	15 10	17 14	9 7	11 7	11 8	143 100	21.37
"5	Earls Colne (Grammar School)	18 11	15 11	14 11	4 2	11 8	8 8	16 15	12 10	14 11	10 7	10 7	15 8	147 109	21.80
Suffolk4	Lowestoft (Secondary School).	16 12	17 9	13 11	6 3	12 10	11 8	14 9	18 12	19 15	11 6	13 8	14 8	164 111	20.87
Norfolk3	Sandringham House Gardens . .	19 14	16 14	14 13	7 4	14 9	11 10	20 16	14 8	19 17	14 9	12 9	16 13	176 136	26.00
Devon, S.5	Teignmouth (Den Gardens) . .	21 12	24 21	16 11	4 0	13 8	8 7	19 13	15 11	16 13	12 9	7 6	16 14	171 125	28.76
Devon, N. . . .1	Ilfracombe (Bowling Green) . .	20 16	23 20	22 17	5 2	10 9	8 7	19 11	20 14	19 15	15 13	7 6	19 14	187 144	41.69
Cornwall1	Bude (School House)	21 14	25 21	23 19	5 3	12 8	9 7	19 16	17 11	20 17	16 13	7 6	18 13	192 148	32.00
"2	St. Austell (Poltair Public Gdns.)	21 19	26 21	23 18	6 4	13 13	7 5	22 18	18 12	20 17	16 11	11 10	18 14	201 162	45.32
"4	Scilly (Tresco Abbey)	23 12	25 22	25 16	6 3	12 8	10 6	22 13	16 11	22 14	17 11	13 8	22 13	213 137	28.67
Somerset1	Bath (Henrietta Park)	20 14	22 19	17 12	2 1	10 8	7 7	19 15	15 11	18 15	14 9	9 6	18 12	171 129	29.39
"3	Taunton (Vivary Park)	20 11	21 18	15 11	3 0	11 7	9 5	19 12	14 8	18 11	13 9	6 5	17 9	166 106	26.81
Hereford1	Ross-on-Wye	18 11	18 13	14 11	0 0	9 6	9 5	15 13	12 10	18 12	13 9	8 5	17 11	151 106	22.53
Shropshire . . .3	Shrewsbury (Monkmoor)	15 10	21 11	18 13	5 2	14 9	11 9	20 12	18 16	18 16	14 11	8 4	19 8	181 121	25.85
Warwick1	Leamington Spa (Pump Room Gardens)	17 9	19 14	16 14	5 1	10 7	9 9	19 16	16 11	17 14	12 9	7 5	16 12	163 121	22.10
Leicester4	Loughbor'gh (Nanpantan Res.)	20 12	18 14	16 13	8 3	13 10	12 6	18 11	18 14	19 15	13 11	10 8	18 14	183 131	27.25
Lincoln3	Potterhanworth (Old Hall) . . .	21 12	15 12	16 13	9 4	15 10	13 8	18 15	19 15	21 16	14 10	12 10	16 12	189 137	25.70
Nottingham . .5	Warsop (Gleadthorpe E. H. Farm)	17 12	16 10	15 12	6 2	13 6	13 9	20 15	20 16	19 14	12 9	13 6	15 9	179 120	24.19
Cheshire2	Northwich (Hunts Lock)	19 11	20 13	18 15	7 3	13 12	11 9	23 18	17 16	21 20	13 12	8 6	15 12	185 147	32.45
"3	Birkenhead (Bidston Obs'y.) . .	17 9	19 12	17 14	8 4	14 10	10 7	21 16	20 14	23 19	16 8	7 5	15 13	187 131	26.62
Lancs, C.1	Squires Gate Airport	21 16	20 13	17 12	5 2	13 11	7 6	18 15	19 15	20 14	15 13	9 8	16 10	180 135	33.04

Table 2B. Number of Rain-days (-01 in. or more) and of Wet-days (-04 in. or more) in 1957 (continued)

County and River Division	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Total Rain-fall.
ENGLAND AND WALES (continued)															in.
Yorks, W.R.. 8	Wakefield (Clarence Park)....	17 9	17 13	13 12	6 2	11 6	11 9	15 13	19 16	18 15	11 7	12 6	15 11	165 119	24·60
" E.R... 3	Hull (Pearson Park)	18 13	14 12	13 9	8 4	12 8	10 9	15 11	18 14	18 16	14 7	12 7	14 11	166 121	24·94
" N.R.. 2	Felixkirk (Mount St. John)...	20 13	16 12	12 8	5 4	14 11	14 14	21 16	20 16	19 15	15 12	15 9	12 9	183 139	27·89
" N.R.. 5	Scarborough.....	18 15	16 12	12 9	9 8	14 9	12 9	19 17	18 13	17 14	16 14	14 12	14 10	179 142	24·29
Durham..... 2	Durham (Houghall Hort. Stn.)	22 16	15 12	13 10	9 3	12 8	11 8	21 14	18 14	16 12	13 7	10 7	10 7	170 118	22·75
Northumb... 6	Ilderton (Lilburn Tower Gdns.)	20 17	13 10	17 14	9 3	15 10	12 6	18 15	18 14	19 16	15 9	12 10	10 8	178 132	30·08
Cumberland .1	Geltsdale.....	24 16	17 12	20 17	15 9	11 10	11 7	21 17	23 20	20 17	21 18	14 10	23 17	220 170	40·05
" .. 2	Keswick (High Hill)	24 19	19 18	19 11	9 7	13 11	8 6	20 16	23 19	20 17	17 15	9 8	20 16	201 163	56·36
Westmorland.2	Ambleside.....	23 20	22 18	20 17	11 11	13 12	11 11	20 16	24 17	22 16	22 18	12 9	22 19	222 184	77·75
Glamorgan .. 7	Cardiff (Penylan).....	21 17	23 20	19 15	3 1	12 7	8 8	15 14	15 13	19 14	17 13	8 8	17 15	177 145	41·52
Cardarthen.. 2	Llandeusan (Pontcrynfe) ...	25 19	25 15	22 15	7 5	13 9	11 8	24 19	24 17	21 20	20 13	10 5	22 16	224 161	61·63
Pembroke ... 4	Haverfordwest(Hospital Gds.)	20 17	21 17	23 18	6 2	13 11	8 7	21 19	15 12	23 20	16 11	10 9	19 13	195 156	46·72
Radnor..... 1	Birmingham W.W. (Tyrm'dd).	25 20	24 17	22 18	7 2	13 12	11 9	24 21	22 19	21 19	20 15	13 8	23 16	225 176	66·16
Montgomery .5	Lake Vyrnwy (Exper. Station).	20 19	22 21	20 17	6 4	13 11	11 10	20 19	20 17	24 22	19 16	13 8	22 17	210 181	67·04
Merioneth ... 5	Aberdovey (Plas Penhelig)....	21 18	23 17	21 17	8 6	12 10	13 8	23 18	19 18	22 19	20 17	9 7	16 13	207 168	49·81
Anglesey	Llanerchymedd (Llwdiarth Esgob)	21 17	21 15	20 14	8 3	12 10	9 7	22 16	18 12	24 20	18 11	11 9	18 13	202 147	46·81
England and Wales	Mean of 48 Stations	19 13	19 15	17 13	6 3	12 9	10 7	19 15	17 13	19 15	14 10	10 7	17 12	179 132	...
	Average (1881-1915).....	18 ...	15 ...	16 ...	14 ...	14 ...	13 ...	14 ...	16 ...	13 ...	18 ...	18 ...	19 ...	188 ...	...
ISLE OF MAN	Douglas (Borough Cemetery).	21 17	20 15	20 16	7 5	14 12	8 6	18 11	17 14	21 17	19 15	12 9	15 12	192 149	43·92
SCOTLAND															
Wigtown 1	Castle Kennedy (Lochinch)...	20 18	17 14	23 21	12 8	13 10	6 6	15 13	18 14	23 20	20 18	11 9	23 20	201 171	47·94
Kirkcudbright5	Lochrutton (Dumfries W.W.)	23 18	18 13	20 18	14 10	14 13	9 5	19 12	23 18	18 14	20 15	12 8	23 19	213 163	45·70
Peebles..... 2	Stobo Castle.....	24 19	15 13	22 12	15 10	14 12	16 11	18 16	22 19	22 17	20 13	19 13	20 13	227 168	38·70
Berwick 4	Marchmont House	22 18	14 12	20 15	11 5	15 13	12 9	20 16	19 14	19 15	17 11	17 9	17 9	203 146	28·96
Lanark 5	Strathaven (Kype Reservoir) ..	25 19	15 13	23 16	14 10	14 13	9 9	15 13	22 17	19 17	21 18	18 9	23 22	218 176	50·04
Renfrew 3	Greenock (Prospect Hill).....	24 20	15 14	25 20	15 10	14 10	10 7	16 12	22 16	20 14	21 17	16 12	22 21	220 173	58·03
Stirling 1	Falkirk (Arnotdale)	24 18	14 11	22 20	13 8	13 10	12 9	18 11	19 12	16 11	16 12	16 8	17 15	200 145	36·29
Argyll..... 11	Inveraray Castle Gardens	25 24	17 14	25 21	17 14	15 13	10 10	12 11	23 23	18 15	29 27	18 15	23 22	232 209	84·84
" 14	Islay (Eallabus)	24 20	17 16	27 24	15 14	11 9	11 10	18 13	21 18	21 21	26 25	20 12	24 21	235 203	50·80
" 14	Mull (Gruline).....	26 22	19 17	27 25	16 12	17 11	12 10	15 13	23 21	22 18	30 27	19 15	23 21	249 212	77·64

Table 2B. Number of Rain-days (.01 in. or more) and of Wet-days (.04 in. or more) in 1957 (concluded)

County and River Division	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Total Rain- fall.
															in.
RAIN-DAYS AND WET-DAYS															
SCOTLAND (continued)															
Argyll.....14	Tiree Airport.....	24 21	18 14	24 22	13 8	13 10	11 9	15 10	20 14	24 16	28 21	21 14	26 24	237 183	45·14
Fife.....3	Leuchars Airfield.....	16 14	16 12	18 14	8 4	12 9	12 7	18 14	14 12	12 10	11 9	11 8	12 9	160 122	25·36
Perth.....11	Aberfeldy (Tigh'n Eilean) ...	24 20	16 15	26 16	15 8	13 10	16 9	19 13	18 11	18 10	18 12	14 7	19 10	216 141	38·90
Aberdeen.....1	Braemar Bank.....	22 15	18 12	15 10	17 13	17 11	19 13	17 14	19 14	23 16	14 11	14 9	20 11	215 149	30·08
".....2	Dyce (Craibstone)	17 11	13 10	13 11	10 8	13 8	18 13	20 15	17 14	17 12	18 11	19 10	12 8	187 131	35·36
".....4	Peterhead (Mains of Buthlaw). ..	20 13	17 11	18 10	12 10	17 7	15 12	20 14	19 18	22 14	19 15	21 14	15 10	215 148	30·27
Banff.....3	Ballindalloch	19 18	14 12	13 11	12 9	11 9	20 16	22 21	19 16	21 19	20 13	13 11	16 13	200 168	38·38
Nairn.....2	Nairn (Achareidh).....	23 11	18 14	18 14	13 9	14 7	16 10	20 14	19 14	17 11	20 11	17 7	19 10	214 132	27·20
Inverness.....2	Dalwhinnie.....	25 23	17 16	24 17	16 11	13 10	13 10	17 13	17 11	23 13	20 17	19 11	23 20	227 172	47·04
".....6	Loch Ness (Garthbeg)	26 21	21 16	22 17	17 11	17 10	18 14	23 14	23 16	25 15	28 18	22 11	23 19	265 182	46·46
".....17	Fort William (Teviot).....	25 23	22 15	25 22	16 14	11 10	15 11	13 11	20 15	19 15	28 21	16 14	22 21	232 192	83·13
Ross and Cromarty...7	Inverbroom (Glackour)	22 19	16 14	23 18	17 10	13 10	16 14	20 15	17 14	21 20	25 24	16 15	22 22	228 195	66·40
".....9	Loch Duich (Ratagan)	26 24	18 13	21 18	15 14	13 8	16 16	18 12	20 17	21 18	31 29	19 15	24 21	242 205	91·36
".....10	Stornoway Airport	25 23	16 12	23 16	19 10	16 10	18 12	15 11	21 15	23 16	28 22	19 15	28 23	251 185	47·32
Sutherland...1	Lairg (Crask).....	24 21	22 14	24 14	17 12	18 14	18 12	21 16	19 14	26 18	27 24	18 13	26 24	260 196	55·62
".....4	Tongue	24 17	19 15	17 12	19 13	17 10	17 16	22 14	17 14	27 19	24 22	16 12	25 19	244 183	46·76
Caitness....2	Wick Airport.....	21 17	16 10	16 13	17 11	16 5	18 15	19 11	21 17	27 17	23 15	21 12	22 17	237 160	33·75
Scotland.....	Mean of 27 Stations	23 19	17 13	21 17	15 10	14 10	14 11	18 13	20 16	21 16	22 18	17 11	21 17	223 171	...
	Average (1881-1915).....	20 ...	18 ...	19 ...	16 ...	16 ...	15 ...	18 ...	19 ...	17 ...	19 ...	19 ...	21 ...	217 ...	...
NORTHERN IRELAND															
Fermanagh...1	Newtownbutler (Crom Castle). ..	25 20	20 14	25 19	15 14	14 9	11 7	23 18	24 19	21 21	21 15	11 7	26 19	236 182	41·83
".....1	Belleek	25 22	20 16	26 20	16 12	14 13	18 13	24 22	23 20	24 22	22 17	12 8	23 22	247 207	50·89
Armagh.....5	Armagh Observatory	22 17	20 13	24 15	13 9	14 11	8 6	24 15	22 18	21 19	20 16	9 6	23 19	220 164	35·92
Down.....4	Donaghadee (Orlock Res.) ...	21 17	16 10	22 16	8 5	13 8	6 3	16 16	20 17	19 16	16 12	9 8	20 15	186 143	30·92
Antrim.....5	Ballymena (Harryville).....	22 18	21 10	25 19	14 11	15 9	11 10	20 20	21 15	25 17	21 14	14 8	25 16	234 167	41·48
Tyrone.....3	Omagh (Edenfel).....	21 21	19 16	28 23	14 11	16 14	12 11	19 17	20 18	23 21	21 16	10 7	23 18	226 193	41·32
Northern Ireland....	Mean of 6 Stations	23 19	19 13	25 19	13 10	14 11	11 8	21 18	22 18	22 19	20 15	11 7	24 18	225 176	...

3 Absolute Droughts and Dry Spells in 1957

The following definitions are used in *British Rainfall* in order to obtain a homogeneous series of statistics:

An **absolute drought** is a period of at least 15 consecutive days, to none of which is credited .01 in. of rain or more.

A **dry spell** is a period of at least 15 consecutive days, to none of which is credited .04 in. of rain or more.

More concise definitions of two of these terms would be:— An *absolute drought* is a period of at least 15 days, none of which is a rain-day; a *dry spell* is a period of at least 15 days, none of which is a wet-day. The definition of an absolute drought was introduced in *British Rainfall*, 1887, while that of dry spell was first used in *British Rainfall*, 1919.

Details are given in Table 3c of the absolute droughts and dry spells which occurred at the 82 selected stations of Table 2b. Partial droughts have been omitted from the Table this year, and Tables 3A and 3B, which show the total number of droughts and dry spells recorded at the selected stations in 1957 as compared with those of the 17 preceding years, have been simplified and combined as Table 3AB.

In previous volumes of *British Rainfall* it has been the practice to indicate spells already included for one calendar year and continued into the next by printing the relevant lines in Table 3c in italics. There were no such spells continued from 1956 into 1957.

Of the selected stations, 19 did not record a drought or a dry spell during the year and their names are omitted from Table 3c.

Absolute droughts were recorded at 31 of the selected stations in England, 5 in both Wales and Scotland, 4 in Northern Ireland and one in the Isle of Man, making 46 in all. In general the droughts occurred in one of two periods, from late March until late June or from the end of September until early December. Droughts were recorded by 16 selected stations in England Wales between March 28 and May 7, the majority of the English stations lying to the south of a line Chester to the Wash. During this period Ross-on-Wye experienced the longest drought of the year, 40 days, and two selected stations, Cardiff and Taunton, each had two separate droughts with total durations of 36 and 30 days respectively. Further droughts were reported from widely separated parts of England between May 19 and June 28. Stations in Northern Ireland and in Scotland, mainly to the south of the Tay, were also affected during the latter part of this period.

No droughts were experienced by any of the selected stations in July, August and most of September. Eight well-scattered stations located in Kent, Essex, Devon, Cheshire and Lancashire, reported droughts between September 26 and October 15, while stations in Somerset, Leicestershire, Durham and Northumberland were similarly affected between November 6 and December 5.

The distribution of dry spells over Great Britain and Northern Ireland closely followed that of the droughts. There were no dry spells recorded at the selected stations in Scotland north of Dyce: those in other areas occurred mainly between late March and late June, although there was a smaller number in all the major divisions of the country between late September and early December. Within

the first dry period 37 well-distributed stations in England and Wales, together with 2 stations in southern Scotland and one in Northern Ireland, reported at least one dry spell between March 21 and May 9. Between May 18 and June 29, 29 stations in England and Wales, 7 in Scotland and 5 in Northern Ireland experienced one or more dry spells, although in Scotland and Northern Ireland the dry spells were nearly all in June. In the dry period in the latter part of the year dry spells were

recorded between September 26 and October 14 in most parts of England, excluding some northern and eastern counties, and also in small areas of eastern Scotland and Northern Ireland. Similarly between November 6 and December 6 there were reports of dry spells from many parts of England, but none from Northern Ireland and only a very few isolated reports from Wales and Scotland. Dry spells of 42 days, the longest of the year, were reported from Teignmouth and Ross-on-Wye.

Table 3AB. Droughts and Dry Spells at 82 Stations, 1940-1957

Year	ABSOLUTE DROUGHTS *				DRY SPELLS †			
	Number at 82 Stations	Mean Duration	Longest	Stations without one	Number at 82 Stations	Mean Duration	Longest	Stations without one
		Days	Days			Days	Days	
1940	40	20	31	53	83	23	48	39
1941	82	21	31	25	196	21	37	1
1942	96	20	30	26	206	22	36	9
1943	61	21	41	47	129	22	47	28
1944	25	17	21	62	96	19	37	41
1945	33	19	24	55	125	20	35	14
1946	57	17	25	36	132	18	29	10
1947	114	25	44	3	179	25	53	1
1948	29	17	23	57	107	19	32	18
1949	75	20	37	27	162	22	55	12
1950	41	16	21	49	106	17	27	24
1951	27	16	23	56	94	18	32	12
1952	32	17	23	61	119	18	23	24
1953	71	24	36	20	163	23	43	7
1954	44	20	27	43	97	21	29	15
1955	111	20	36	15	224	22	44	2
1956	12	17	21	72	69	19	36	43
1957	46	17	40	47	159	18	42	19

* 15 days without a rain-day.

† 15 days without a wet-day.

Table 3c. Droughts and Dry Spells in 1957 (continued)

County and River Division	Station	Absolute Droughts			Dry Spells		
		Began	Ended	Lasted days	Began	Ended	Lasted Rain
ENGLAND AND WALES (continued)							
Essex .....3	Shoeburyness.....	... Apr. 18 Oct. 1	... May 3 Oct. 15	... 16 15	Mar. 27 Apr. 18 Oct. 1	Apr. 10 May 7 Oct. 15	15 20 15
"5	Earls Colne (Grammar School) .....	... Apr. 14	... May 3	... 20	Apr. 18 Oct. 1	May 6 Oct. 15	19 15
Suffolk.....4	Lowestoft (Secondary School) .....	... Apr. 14	... May 3	... 20	Apr. 13 Oct. 1	May 3 Oct. 15	21 15
Norfolk.....3	Sandringham House Gardens.....	... Apr. 14	... May 3	... 20	Apr. 13 Oct. 1	May 3 Oct. 15	21 15
Devon, S. ....5	Teignmouth (Den Gardens) .....	... Mar. 28 May 21 Sept. 26	... Apr. 12 June 6 Oct. 14	... 16 17 19	Apr. 19 Oct. 1 Jan. 6	May 4 Oct. 15 Jan. 22	16 15 17
Devon, N.....1	Ilfracombe (Bowling Green) .....	... Mar. 28 May 21 Sept. 26	... Apr. 12 June 6 Oct. 14	... 16 17 19	Mar. 27 May 21 Sept. 26	May 7 June 6 Oct. 14	42 17 19
Cornwall.....1	Bude (School House) .....	... Sept. 29	... Oct. 14	... 16	Nov. 19 Apr. 18 May 18	Dec. 5 May 6 June 2	17 19 16
"2	St. Austell (Poltair Public Gardens).....	... June 10	... June 28	... 19	Sept. 29 Nov. 6	Oct. 14 Nov. 20	16 15
"4	Scilly (Tresco Abbey) .....	... Mar. 29	... Apr. 21	... 24	Apr. 20 Sept. 29	May 6 Oct. 14	15 20
Somerset .....1	Bath (Henrietta Park) .....	... May 19	... June 2	... 15	Nov. 10 June 18 Sept. 30	June 29 June 6 Oct. 14	20 20 15
		... May 19	... June 2	... 15	Mar. 28 Apr. 23	Apr. 21 May 7	25 15
		... May 19	... June 2	... 15	Apr. 23 May 18	May 2 June 6	15 16
		... May 19	... June 2	... 15	Sept. 29 Nov. 22	Oct. 14 Dec. 6	16 15
		... May 19	... June 2	... 15	Nov. 22	Dec. 6	15

in.

Table 3c. Droughts and Dry Spells in 1957 (continued)

County and River Division	Station	Absolute Droughts			Dry Spells				
		Began	Ended	Lasted days	Began	Ended	Lasted Rain		
ENGLAND AND WALES (<i>continued</i>) Lancs, C. ....1	Squires Gate (Blackpool Airport) . . . . .	...	...	days	Mar. 30	Apr. 15	17	in.
		...	...	...	Apr. 18	May 7	20	.03
		...	...	...	June 9	June 25	17	.05
		...	...	...	Sept. 29	Oct. 14	16	.01
		...	...	...	Mar. 27	Apr. 18	23	.00
		...	...	...	Apr. 22	May 7	16	.04
		...	...	...	Sept. 29	Oct. 14	16	.03
		...	...	...	Nov. 16	Dec. 5	20	.01
		...	...	...	May 20	June 6	18	.02
		...	...	...	Nov. 17	Dec. 5	19	.04
Yorks, W.R. ....8	Wakefield (Clarence Park) . . . . .	...	...	...	Nov. 13	Dec. 5	23	.03
		...	...	...	May 18	June 2	16	.10
		...	...	...	Nov. 12	Dec. 5	24	.05
		...	...	...	Dec. 13	Dec. 30	18	.07
		...	...	...	Apr. 12	Apr. 27	16	.06
		...	...	...	May 20	June 3	15	.00
		...	...	...	June 5	June 20	16	.09
		...	...	...	Nov. 13	Dec. 5	23	.01
		...	...	...	June 9	June 25	17	.06
		...	...	...	Apr. 22	May 9	18	.02
" " " " " " " " " " " "	Geltsdale. Keswick (High Hill) . . . . .	...	...	...	June 9	June 25	17	.01
		...	...	...	Sept. 28	Oct. 14	17	.05
		...	...	...	Sept. 23	Oct. 9	17	.13
		...	...	...	Mar. 28	Apr. 16	20	.02
		...	...	...	Apr. 18	May 7	20	.02
		...	...	...	May 18	June 2	16	.02
		...	...	...	Sept. 29	Oct. 14	16	.02
		...	...	...	Apr. 23	May 7	15	.04
		...	...	...	May 18	June 2	16	.02
		...	...	...	Nov. 6	Nov. 20	15	.04
Cumberland ....1 " " " " " " " " " " " "	Ilderton (Lilburn Tower Gardens) . . . . .	...	...	...	Nov. 15	Dec. 5	21	days
	
	
	
	
	
	
	
	
	
Westmorland ....2 Glamorgan ....7	Ambleside. Cardiff (Penylan) . . . . .	...	...	...	...	...	...	...
	
	
	
	
	
	
	
	
	
Carmarthen ....2	Llandeusan (Pontcrynfe) . . . . .	...	...	...	...	...	...	...
	
	
	
	
	
	
	
	
	

Table 3C. Droughts and Dry Spells in 1957 (continued)

County and River Division	Station	Absolute Droughts			Dry Spells		
		Began	Ended	Lasted	Began	Ended	Lasted
				days			days
ENGLAND AND WALES (continued)	Pembroke4	Apr. 18	May 5	18	Apr. 18	May 5	18
	Radnor1	...	...	...	Sept. 30	Oct. 14	15
		...	...	...	Mar. 30	Apr. 16	18
		...	...	...	Apr. 19	May 7	19
		...	...	...	Sept. 29	Oct. 14	16
Montgomery5	Lake Vyrnwy (Experimental Stn.)	Apr. 22	May 7	16	Apr. 22	May 7	16
Merioneth5	Aberdovey (Plas Penhelig)	Apr. 23	May 7	15	Sept. 30	Oct. 14	15
Anglesey	Llanerchymedd (Llwydiarth Esgob) . . . . .	...	...	...	Apr. 23	May 7	15
		...	...	...	Mar. 29	Apr. 15	18
		...	...	...	Apr. 22	May 7	16
		...	...	...	June 11	June 25	15
		...	...	...	Sept. 29	Oct. 14	16
ISLE OF MAN	Douglas (Borough Cemetery)	June 9	June 25	17	Apr. 22	May 6	15
		...	...	...	June 9	June 25	17
SCOTLAND							
Wigtown1	Castle Kennedy (Lochinch)	June 5	June 25	21	Apr. 22	May 6	15
Kirkcudbright . . .5	Lochrutton (Dumfries W.W.)	June 7	June 21	15	June 5	June 25	21
		...	...	...	May 21	June 5	16
		...	...	...	June 7	June 23	17
		...	...	...	Sept. 23	Oct. 12	20
		...	...	...	Nov. 13	Nov. 27	15
Berwick4	Marchmont House . . . . .	...	...	...	Apr. 22	May 6	15
Lanark5	Strathaven (Kype Reservoir)	June 7	June 25	19	Apr. 22	May 6	15
Renfrew3	Greenock (Prospect Hill)	June 6	June 24	19	June 5	June 25	21
Argyll11	Inveraray Castle Gardens	June 10	June 25	16	June 6	June 24	19
"14	Islay (Eallabus) . . . . .	...	...	...	June 10	June 25	16
"14	Mull (Gruline) . . . . .	...	...	...	June 11	June 25	15
Fife3	Leuchard Airfield . . . . .	...	...	...	Jan. 6	Jan. 20	15
		...	...	...	June 5	June 23	19
Perth11	Aberfeldy (Tigh'n Eilean) . . . . .	...	...	...	Sept. 23	Oct. 14	22
Aberdeen2	Dyce (Craibstone) . . . . .	...	...	...	Nov. 18	Dec. 5	18
		...	...	...	Dec. 13	Dec. 28	16
							in.
							.00
							.04
							.07
							.04
							.04
							.00
							.05
							.00
							.08
							.03
							.03
							.03
							.01
							.00
							.05
							.00
							.05
							.03
							.07
							.07
							.01
							.04
							.00
							.00
							.02
							.03
							.04
							.05
							.06
							.05

Table 3C. Droughts and Dry Spells in 1957 (concluded)

County and River Division	Station	Absolute Droughts			Dry Spells			
		Began	Ended	Lasted	Began	Ended	Lasted	Rain
NORTHERN IRELAND								
Fermanagh 1	Newtownbutler (Crom Castle) . . . . .	...	...	days ...	June 6	June 25	20	in. .07
Armagh 5	Armagh Observatory	June 7	June 25	19	Sept. 29	Oct. 14	16	.11
Down 4	Donaghadee (Orlock Reservoir) . . . . .	...	...	...	June 7	June 25	19	.00
		June 5	June 25	21	Apr. 22	May 6	15	.05
		...	...	...	June 4	June 25	22	.02
Antrim 5	Ballymena (Harryville)	June 11	June 25	15	Sept. 29	Oct. 14	16	.04
Tyrone 3	Omagh (Edenfel)	June 11	June 25	15	June 11	June 25	15	.00
		June 11	June 25	15	June 11	June 25	15	.00

4 Rain Spells and Wet Spells in 1957

The definitions of the terms "rain spell" and "wet spell" as used in this section are analogous to those of the terms "absolute drought" and "dry spell" which are used in the previous section. Thus:

A rain spell is a period of at least 15 consecutive days to each of which is credited .01 in. of rain or more.

A wet spell is a period of at least 15 consecutive days to each of which is credited .04 in. of rain or more.

In other words, a *rain spell* contains at least 15 consecutive rain-days and a *wet spell* contains at least 15 consecutive wet-days.

Table 4c contains particulars of all rain spells and wet spells during 1957 which were reported from the 82 selected stations of Table 2b. Stations from which no rain spells or wet spells were reported are omitted from this table. The number of stations omitted is 27, of which 21 are in England, 5 in Scotland and one in Northern Ireland.

The dates of commencement of rain spells and wet spells which began in December 1956 are given in the form "19.xii.56". Three of these, the rain spells at Llanddeusant, Newtownbutler and Omagh were of sufficient duration in 1956 to qualify for inclusion in Table 4c for that year and the details for this spell are, according to the usual convention, printed in italics.

In 1957 the total number of rain spells at the selected stations was 107 and of these 29 ranked as or included wet spells. Averages in this series for the years 1940-56 are 95 rain spells and 25 wet spells per annum.

Rain spells of 37 days' duration at Scilly and Llanddeusant, commencing at the latter station in December, 1956, were the longest recorded at the selected stations. Rainfall in the 37 days was 5.87 in. at Scilly and 10.07 in. at Llanddeusant.

Only 27 of the 107 rain spells occurred at

stations in England and were mainly reported between January 20 and February 26. There were further rain spells in Cornwall in March, July and September, and in Cumberland and Westmorland in August, October and November. In Wales, rain spells which commenced late in 1956 continued into the first half of January, but, in general, the rain spells occurred in one of two main periods, from January 19 to February 18 and from October 15 to November 6, although there were a few rain spells recorded at widely separated stations in July and August. The distribution of rain spells in Wales, Scotland and Northern Ireland followed a very similar pattern, although in the last two areas a number of stations, particularly in north and west Scotland, reported additional rain spells between August 7 and September 24, and between December 5 and 31. Omagh, in Northern Ireland, reported the only rain spell in the period April to June. Two stations in Scotland, Mull and Loch Duich, each reported 5 rain spells, although one at the latter station commenced late in 1956.

Of the 6 wet spells reported over England during 1957, 5 were from stations in the southern counties and occurred between January 28 and February 24. In Wales, Scotland and Northern Ireland the wet spells were mainly in one of two periods, January 19 to February 14 or October 11 to November 5. The only wet spell recorded in all the four countries during the period March to August occurred at Ballindalloch in July.

The longest wet spells at the selected stations lasted for 24 days. Wet spells of this duration occurred at Inveraray, Mull and Loch Duich—the rainfall at the last station over the 24 days was 11.35 in., giving a rainfall per day of .47 in., and this, the largest at the three stations, has been entered in Table 4AB, which combines and simplifies Tables 4A and 4B of previous years.

Table 4AB. Rain Spells and Wet Spells at 82 Stations, 1940-1957

Year	RAIN SPELLS*						WET SPELLS†					
	Number at 82 Stations	Mean Duration	Mean rain per day	Longest Duration	Mean rain per day	Stations without one	Number at 82 Stations	Mean Duration	Mean rain per day	Longest Duration	Mean rain per day	Stations without one
1940	67	days 19	in. .27	days 47	in. .44	45	4	days 20	in. .34	days 24	in. .44	79
1941	43	19	.25	34	.26	54	4	16	.36	18	.34	78
1942	94	20	.27	47	.15	32	22	17	.36	24	.54	63
1943	98	22	.27	42	.28	42	15	21	.37	26	.63	71
1944	95	21	.26	67	.19	35	21	18	.63	25	.49	66
1945	86	19	.26	40	.24	35	22	16	.35	20	.41	65
1946	134	21	.28	42	.18	22	42	19	.38	37	.40	57
1947	82	20	.26	34	.20	26	21	17	.35	25	.25	64
1948	107	21	.30	54	.37	37	28	19	.38	31	.28	63
1949	109	22	.30	41	.44	48	32	20	.40	34	.54	68
1950	139	21	.30	50	.35	35	38	19	.41	38	.64	61
1951	112	19	.28	49	.47	23	23	18	.42	32	.39	66
1952	115	20	.24	40	.34	36	24	18	.38	26	.31	66
1953	65	20	.29	31	.18	50	16	19	.44	29	.56	67
1954	151	21	.30	116	.35	33	42	18	.41	37	.38	59
1955	51	18	.20	27	.25	45	6	17	.34	21	.24	76
1956	62	20	.29	32	.36	45	10	20	.45	29	.25	74
1957	107	20	.27	37	.16	27	29	19	.37	24	.47	59

* At least 15 days, each credited with .01 in. or more.

† At least 15 days, each credited with .04 in. or more.

Table 4C. Rain Spells and Wet Spells in 1957

County and River Division	Station	Rain Spells*				Wet Spells†				Max. in a Day during Rain Spells	
		Began	Ended	Lasted	Total Rain	Began	Ended	Lasted	Total Rain	Date	Rain
ENGLAND AND WALES											
Kent 1	Dover (Waterloo Crescent)	Feb. 7	Feb. 21	15 days	in. 2.96	...	...	...	in. ...	Feb. 7	in. .72
Hampshire . . . 1	St. Catherine's Pt. Lighthouse . . .	Jan. 29	Feb. 16	19	3.69	...	...	...	...	Jan. 31	.74
" . . . 4	Southampton (East Park)	Jan. 27	Feb. 13	18	4.64	Jan. 29	Feb. 13	16	4.61	Jan. 31	1.21
Hertford 2	Harpenden (Rothamsted)	Jan. 28	Feb. 15	19	3.30	...	...	...	...	Feb. 5	.50
Northampton . 4	Wellingborough (Swanspool)	Jan. 29	Feb. 15	18	1.83	...	...	...	...	Feb. 5	.36
Devon, S. 5	Teignmouth (Den Gardens)	Jan. 28	Feb. 16	20	6.33	Jan. 28	Feb. 15	19	6.32	Jan. 31	1.01
Devon, N. 1	Ilfracombe (Bowling Green)	Jan. 23	Feb. 8	17	4.14	...	...	...	...	Jan. 31	1.11
Cornwall 1	Bude (School House)	Jan. 20	Feb. 18	30	4.72	...	...	...	...	Jan. 31	.91
" 2	St. Austell (Poltair Public Gdns.) . .	Jan. 28	Feb. 26	30	7.61	...	...	...	...	Jan. 31	.95
" 4	Scilly (Tresco Abbey)	July 5	July 23	19	2.51	...	...	...	...	July 17	.59
		Jan. 20	Feb. 25	37	5.87	Feb. 3	Feb. 24	22	3.91	Jan. 31	.73
		Mar. 15	Apr. 1	18	2.92	...	...	...	...	Mar. 31	.72
		July 4	July 20	17	1.91	...	...	...	...	July 15	.40
		Aug. 31	Sept. 14	15	1.66	...	...	...	...	Sept. 10	.65
Somerset 1	Bath (Henrietta Park)	Jan. 23	Feb. 14	23	3.58	Jan. 29	Feb. 13	16	2.78	Jan. 31	.57
" 3	Taunton (Vivary Park)	Jan. 23	Feb. 15	24	4.29	Jan. 29	Feb. 14	17	3.69	Jan. 31	.49
Hereford 1	Ross-on-Wye	Jan. 23	Feb. 13	22	3.55	...	...	...	...	Jan. 31	.67
Shropshire . . . 3	Shrewsbury (Monkmoor)	Jan. 24	Feb. 9	17	1.37	...	...	...	...	Feb. 5	.27
Warwick 1	Leamington Spa (Pump Rm. Gdns.) . .	Jan. 25	Feb. 15	22	2.73	...	...	...	...	Feb. 7	.59
Cheshire 2	Northwich (Hunts Lock)	Jan. 23	Feb. 13	22	1.87	...	...	...	...	Jan. 31	.35
Lancs, C. 1	Squires Gate (Blackpool Airport) . .	Jan. 20	Feb. 10	22	3.19	...	...	...	...	Jan. 21	.49
Cumberland . . 1	Geltsdale	Oct. 15	Nov. 5	22	5.46	...	...	...	...	Oct. 18	.67
" 2	Keswick (High Hill)	22.xii.56	Jan. 5	15	5.17	...	...	...	...	Jan. 4	1.32
		Jan. 19	Feb. 8	21	9.19	...	...	...	...	Jan. 31	1.42
Westmorland . 2	Ambleside	Jan. 19	Feb. 16	29	13.42	...	...	...	...	Feb. 7	1.89
		Aug. 7	Aug. 21	15	3.75	...	...	...	...	Aug. 13	.79
		Oct. 15	Nov. 5	22	11.46	Oct. 15	Nov. 5	22	11.46	Oct. 20	1.34

* At least 15 days, each credited with .01 inch or more.

† At least 15 days, each credited with .04 inch or more.

Table 4C. Rain Spells and Wet Spells in 1957 (continued)

County and River Division	Station	Rain Spells*				Wet Spells†				Max. in a Day during Rain Spells	
		Began	Ended	Lasted	Total Rain	Began	Ended	Lasted	Total Rain	Rain Spells	
										Date	Rain
ENGLAND AND WALES (continued)	Cardiff (Penylan).....	Jan. 20	Feb. 13	days 25	in. 7.66	Jan. 23	Feb. 13	days 22	in. 6.54	Jan. 31	in. 1.62
	Llanddeusant (Pontcrynfe)	7.xii.56	Jan. 12	37	10.07	...	...	...	...	27.xii.56	1.37
	Carmarthen .2	Jan. 20	Feb. 18	30	11.52	...	...	...	...	Jan. 31	1.65
Pembroke .4	Haverfordwest (Hospital Grds.)..	July 9	July 28	20	5.11	...	...	...	...	July 17	1.37
	Birmingham W.W. (Tyrmynydd) .	Oct. 15	Nov. 6	23	9.18	...	...	...	...	Oct. 29	1.85
	Radnor .....1	23.xii.56	Jan. 8	17	4.55	...	...	...	...	27.xii.56	1.04
Montgomery .5	Lake Vyrnwy (Experimental Stn.)	21.xii.56	Jan. 9	20	5.87	...	...	...	...	25.xii.56	.99
	Aberdovey (Plas Penhelig)	Jan. 20	Feb. 18	30	11.02	...	...	...	...	Jan. 31	1.32
	Llanerchymedd (Llwydiarth Esgob)	July 5	July 21	17	4.37	...	...	...	...	July 11	.92
Merioneth .5	Douglas (Borough Cemetery)	Oct. 15	Nov. 5	22	8.46	...	...	...	...	Nov. 2	.98
	Anglesey	Jan. 20	Feb. 14	26	8.77	Jan. 23	Feb. 14	23	7.22	Jan. 31	1.24
	ISLE OF MAN...	Sept. 2	Sept. 16	15	5.27	Oct. 20	Nov. 5	17	6.63	Sept. 10	.97
SCOTLAND	Wigtown .....1	Oct. 15	Nov. 7	22	8.48	...	...	...	...	Oct. 29	.93
	Kirkcudbright 5	Jan. 20	Feb. 10	22	8.88	...	...	...	...	Jan. 21	.78
	Berwick .....4	Jan. 20	Feb. 10	22	5.48	...	...	...	...	Oct. 29	1.47
Renfrew .....3	Lochrutton (Dumfries W.W.)	Jan. 19	Feb. 16	29	5.76	...	...	...	...	Jan. 21	.86
	Marchmont House	Oct. 17	Nov. 7	22	8.16	...	...	...	...	Feb. 7	.91
	Greenock (Prospect Hill)	Sept. 3	Sept. 18	16	4.66	...	...	...	...	Nov. 2	1.17
Stirling .....1	Falkirk (Arnotdale)	Oct. 17	Nov. 6	21	5.57	...	...	...	...	Sept. 17	1.25
	Inveraray (Castle Gardens)	Jan. 19	Feb. 14	27	7.48	...	...	...	...	Oct. 18	.70
	Argyll .....11	Aug. 7	Aug. 21	15	2.47	...	...	...	...	Feb. 7	.88
"14	Islay (Eallabus)	Oct. 30	Nov. 14	16	1.62	...	...	...	...	Aug. 11	.54
		Oct. 11	Oct. 25	15	5.10	...	...	...	...	Nov. 4	.46
		25.xii.56	Jan. 12	19	2.29	...	...	...	...	Oct. 25	.78
		21.xii.56	Jan. 12	23	7.14	21.xii.56	Jan. 12	23	7.14	Jan. 3	.57
		Oct. 7	Nov. 5	30	11.67	Oct. 11	Nov. 3	24	11.11	Jan. 3	1.24
		19.xii.56	Jan. 6	19	5.78	21.xii.56	Jan. 6	17	5.71	Oct. 15	1.36
		Sept. 3	Sept. 18	16	4.02	Sept. 3	Sept. 18	16	4.02	27.xii.56	1.24
										Sept. 6	.50

* At least 15 days, each credited with .01 inch or more.

† At least 15 days, each credited with .04 inch or more.

Table 4C. Rain Spells and Wet Spells in 1957 (continued)

County and River Division	Station	Rain Spells*				Wet Spells†				Max. in a day during Rain Spells		
		Began	Ended	Lasted	Total Rain	Began	Ended	Lasted	Total Rain	Date	Rain	
SCOTLAND (continued)	Argyll .....14	Mull (Gruline).....	27.xii.56	Jan. 12	days 17	in. 6.84	... 19	... 8	days	in.	Jan. 4	in. .96
			Jan. 19	Feb. 15	28	14.54	Jan. 19	Feb.	21	12.90	Jan. 23	1.76
			Mar. 6	Mar. 25	20	5.92	... 3	... 17	15	4.36	Mar. 15	1.34
			Sept. 2	Sept. 17	16	4.39	Sept. 12	Nov. 4	24	8.86	Sept. 6	.97
			Oct. 7	Nov. 8	33	9.48	Oct. 12	Oct. 25	.90
	"14	Tiree Airport.....	25.xii.56	Jan. 9	16	3.18	... 20	... 8	... 20	... 5.48	Jan. 5	.48
			Jan. 19	Feb. 8	21	5.51	Jan. 20	Feb.	Jan. 25	.58
			Aug. 29	Sept. 17	20	2.47	Sept. 6	.42
			Oct. 10	Nov. 7	29	5.18	Nov. 3	.54
			22.xii.56	Jan. 9	19	5.90	Jan. 25	Feb. 8	15	6.18	30.xii.56	1.78
	Perth .....11	Aberfeldy (Tigh'n Eilean)	Jan. 25	Feb. 8	15	6.18	Jan. 25	Feb.	Feb. 4	1.25
			Mar. 1	Mar. 21	21	2.11	Mar. 19	.34
			22.xii.56	Jan. 6	16	3.46	30.xii.56	.86
			21.xii.56	Jan. 6	17	2.39	28.xii.56	.82
July 11			July 27	17	6.30	July 11	July 27	17	6.30	July 13	1.23	
"6	Loch Ness (Garthbeg)	23.xii.56	Jan. 14	23	5.91	...	...	...	...	30.xii.56	1.22
		Aug. 30	Sept. 16	18	2.62	...	...	...	...	Sept. 6	.69
		Jan. 25	Feb. 8	15	4.91	Jan. 25	Feb. 8	15	4.91	Jan. 25	.75	
		Aug. 16	Sept. 20	36	4.86	...	...	...	...	Aug. 23	1.05
		Oct. 15	Nov. 5	22	5.22	...	...	...	...	Oct. 27	1.01
"17	Fort William (Teviot).....	Jan. 19	Feb. 13	26	15.02	Jan. 19	Feb. 8	21	14.72	Jan. 28	2.74	
		Aug. 29	Sept. 12	15	5.18	...	...	...	...	Sept. 7	1.05
		Oct. 14	Nov. 1	19	7.65	Oct. 14	Nov. 1	19	7.65	Oct. 22	1.23	
		Jan. 18	Feb. 8	22	15.05	Jan. 19	Feb. 4	17	14.19	Jan. 20	2.10	
		Aug. 16	Sept. 1	17	5.42	...	...	...	...	Aug. 23	1.72
Ross and Cromarty ..7	Inverbroom (Glackour)	Sept. 4	Sept. 19	16	6.38	...	...	...	...	Sept. 9	.84
		Oct. 1	Nov. 3	34	14.04	Oct. 11	Nov. 3	24	11.35	Oct. 27	2.50	
		Dec. 15	Dec. 29	15	9.75	...	...	...	...	Dec. 21	2.00
		Jan. 18	Feb. 5	19	4.90	...	...	...	...	Jan. 19	.80
		Sept. 3	Sept. 17	15	3.02	...	...	...	...	Sept. 6	.98
"10	Stornoway Airport.....	Oct. 10	Nov. 7	29	6.44	...	...	...	...	Nov. 2	.80
		Dec. 5	Dec. 30	26	7.11	...	...	...	...	Dec. 7	1.09

* At least 15 days, each credited with .01 in. or more.

† At least 15 days, each credited with .04 in. or more.

Table 4C. Rain Spells and Wet Spells in 1957 (concluded)

County and River Division	Station	Rain Spells*				Wet Spells†				Max. in a Day during Rain Spells	
		Began	Ended	Lasted	Total Rain	Began	Ended	Lasted	Total Rain		
										Date	Rain
SCOTLAND (continued)	Lairg (Crask)	Sept. 3	Sept. 19	days 17	in. 3.28	...	...	days	in. ...	Sept. 7	in. .50
		Oct. 15	Nov. 2	19	4.79	Oct. 16	Nov. 2	18	4.78	Oct. 23	.73
		Dec. 15	Dec. 31	17	6.06	...	...	...	...	Dec. 19	1.17
	Tongue	Aug. 31	Sept. 20	21	2.57	...	...	...	...	Sept. 11	.43
		Oct. 14	Nov. 2	20	3.88	Oct. 14	Oct. 29	16	3.31	Oct. 27	.47
Caithness ....2	Wick Airport	Aug. 13	Aug. 27	15	3.45	...	...	...	...	Aug. 14	1.33
		Sept. 3	Sept. 24	22	2.79	...	...	...	...	Sept. 17	.63
NORTHERN IRELAND	Newtownbutler (Crom Castle)....	8.xii.56	Jan. 5	29	6.44	...	...	...	...	25.xii.56	1.28
		Jan. 19	Feb. 12	25	6.03	Jan. 19	Feb. 7	20	5.35	Jan. 22	.94
		Oct. 15	Nov. 3	20	5.06	...	...	...	...	Oct. 18	.77
		Dec. 15	Dec. 31	17	2.31	...	...	...	...	Dec. 31	.66
		Jan. 20	Feb. 12	24	5.67	Jan. 20	Feb. 7	19	5.42	Jan. 28	.97
.....1	Belleek	Sept. 3	Sept. 18	16	5.03	...	...	...	...	Sept. 17	.98
		Jan. 19	Feb. 10	23	4.84	...	...	...	...	Jan. 21	.87
Armagh.....5	Armagh Observatory	Oct. 17	Nov. 1	16	2.84	...	...	...	...	Oct. 18	.67
		21.xii.56	Jan. 6	17	3.48	...	...	...	...	25.xii.56	1.00
Antrim .....5	Ballymena (Harryville).....	Sept. 6	Sept. 24	19	5.15	...	...	...	...	Sept. 17	1.43
		Oct. 17	Nov. 5	20	4.04	...	...	...	...	Oct. 18	.61
		8.xii.56	Jan. 6	30	6.13	...	...	...	...	10.xii.56	.75
Tyrone.....3	Omagh (Edenfel).....	Jan. 20	Feb. 8	20	5.18	Jan. 20	Feb. 8	20	5.18	Jan. 22	.65
		May 4	May 19	16	2.20	...	...	...	...	Jan. 23	.65
		Sept. 3	Sept. 18	16	3.51	...	...	...	...	May 15	.41
						...	...	...	...	Sept. 16	1.02

* At least 15 days, each credited with .01 in. or more.

† At least 15 days, each credited with 0.4 in. or more.

5 Duration of Rainfall in 1957

The duration of rainfall is obtained by measurement of the records of autographic gauges. On these records the amount of rain is measured vertically and the duration of the rainfall is measured horizontally, using scales which are printed upon the charts. The pen of an autographic gauge writes a horizontal line on the chart during the time that no rain is falling, and a sloping line whenever rain is passing into the receiver of the gauge. The inclination of the slope to the horizontal varies with the intensity of the rain.

Duration of rainfall as discussed in this Section is defined as the length of time during which rain is falling at a rate of not less than 0.1 mm. per hour, i.e., .004 inch per hour. Tabulations at all the official stations are made according to this convention, which was first brought into use in *British Rainfall* 1920. The convention was adopted because, for very light rainfall, it was found to be almost impossible to define the exact point on the chart where the change from "no rain" to "rain" occurred. By taking a definite limiting slope of the trace as the criterion the difficulty is avoided to a great extent and it is found possible to obtain measurements from different gauges and from different observers which are comparable amongst themselves. The limit 0.1 mm. (.004 inch) per hour is low enough to ensure that no fall of practical importance is excluded.

Table 5A gives the monthly and annual totals of duration of rainfall at 145 stations. Other records of duration are received but the published list gives good representation over the country.

For the purpose of Table 5A, the month commences at 9 a.m. G.M.T. on the first day of the month and ends at the same hour on the first day of the following month.

Values of the average monthly and annual duration 1931–1940 at 50 stations and the corresponding mean rates of rainfall at 14 well distributed stations were given in *British Rainfall* 1948, pp. 30–31. Average monthly and annual duration of rainfall 1941–50 are available for 27 of the original 50 stations and are printed in Table 5c, which, in addition contains data for two stations in the Western Isles, although records from these stations are not complete for the whole of the 10 years. The corresponding mean rates of rainfall for 13 of the original 14 stations, supplemented by additional records from Renfrewshire and the Hebrides, are given in Table 5D.

The duration of rainfall in 1957 was less than average in most eastern districts of England and Scotland, where differences from average ranged from 50 to 100 hours and exceeded 100 hours in parts of south-east England. Average durations were exceeded in the west and extreme north, again by 50 to 100 hours over much of the area and by more than 100 hours in parts of south-west England, south Wales, Northern Ireland and the Shetlands.

The duration for the year exceeded 1,500 hours at Snowdon (Cwm Dyli) and Loch Sloy (Power Station), and it can be inferred that the duration exceeded 1,000 hours over most of the Western Highlands, Grampians, Southern Uplands, the northern Pennines, the Cumbrian Mountains and also over the mountains of

Wales. The smallest total was 331 hours at Silsoe (Wrest Park), while a number of stations in southern East Anglia and around the London area, together with Ross-on-Wye, reported less than 400 hours.

February was the month with the greatest totals of duration over southern England and parts of Somerset and Devon. The remainder of south-west England and south-west Wales had the greatest monthly totals in March, while over a large area including much of the Midlands, Lancashire, Cumberland, the Isle of Man and most of eastern England from the Thames to the Tees, the highest monthly totals of rainfall duration were in September. Wales, except the south-west, parts of north-west England and south and west Scotland including the Hebrides, had maximum values in January, but many areas of eastern Scotland between the Forth and the Moray Firth had their highest monthly durations in July or August. In Northern Ireland maximum monthly durations occurred in July or December.

The largest individual monthly total in the Table was recorded in January at Swansea W.W. (Cray Reservoir): 216 hours. The largest monthly total in England was 175 hours in January at Forest-in-Teesdale, and in Scotland, 212 hours at Loch Sloy in December. Also in December, Aldergrove recorded 133 hours, the largest monthly total in Northern Ireland.

The month with the shortest total duration of rainfall was April over practically the whole of England and Wales, although slightly lower totals were recorded in June in coastal areas of Kent and Sussex. Parts of northern Scotland

had their lowest monthly totals in February, but most of the country, together with Northern Ireland, had minimum monthly totals in April, May or June.

A number of stations, mainly in southern England, the Midlands and eastern England reported April duration totals of 5 hours or less, and Ross-on-Wye, with no more than a trace of rain throughout the month, reported zero duration.

Table 5B sets out the mean monthly and annual values of rate of rainfall at 15 stations chosen to show broadly the variation in rates throughout the country. The values are obtained by dividing the total fall for the month or the year by the duration given in Table 5A. The Camden Square record quoted in Table 5B is a composite one in that the recorder was moved from 62 Camden Square to a new site in Camden Square Gardens at the end of May. For January to May monthly rates are based on check gauge readings from the old site and for June to December on similar readings from the new site. The rainfall total for the year quoted in Table 5B is, therefore, not in strict agreement with the value quoted for Camden Square in other Tables in this volume.

The mean rates for the year at the 15 stations vary from .098 inch per hour at Snowdon (Cwm Dyli) to .044 in. per hour at Aldergrove Airfield. For individual months there are even wider variations from station to station, illustrated in Table 5B by the range from .140 in. per hour at Snowdon (Cwm Dyli) in October (21.15 in. with a duration of 150.6 hours) to .019 in. per hour at Chivenor Airfield in April (.20 in. in 10.8 hours).

Table 5A. Duration of Rainfall at 145 Stations during 1957 (Monthly and Annual values)

County and River Division	Station	Height above Sea	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		ft.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.
London	Greenwich (Maritime Museum)	24	34	66	27	7	27	11	41	25	51	27	34	40	390
"	Kensington Palace	80	34	62	29	8	26	10	36	19	49	27	23	43	366
"	Hampstead Observatory	450	37	70	41	10	28	14	42	20	51	32	34	48	427
"	St. Pancras (Camden Square)	110	38	73	36	10	29	12	40	27	54	31	31	46	427
Surrey	Lingfield (Sewage Works)	155	60	111	39	10	40	31	51	45	59	32	43	56	577
"	Caterham (Alderstead Heath)	577	67	111	50	12	41	34	64	46	69	42	48	65	649
"	Croydon Airport	201	38	88	33	8	30	16	38	27	64	35	44	44	465
"	Dorking (Pixham Lane Sewage Works)	138	56	105	47	11	38	23	58	39	61	41	45	66	590
"	Leatherhead (Elmer Softening Works)	168	45	95	37	10	30	24	49	31	63	34	32	51	501
"	Weybridge (Weyland Sewage Works)	50	42	77	30	9	26	17	39	33	55	31	36	51	446
"	Kingston (Canbury Gardens)	23	40	74	28	10	32	13	40	42	53	32	28	44	436
"	Kew Observatory	18	31	65	28	8	21	12	35	28	44	27	26	38	363
"	Shottermill (Sewage Works)	383	76	106	64	11	49	30	63	45	82	57	50	74	707
"	Guildford (Woking Road)	98	36	67	21	7	22	13	42	28	64	31	35	56	422
"	Camberley (Sewage Works)	198	46	77	47	11	29	18	49	28	66	36	43	67	517
Kent	Folkestone (The Leas)	128	81	101	35	16	38	4	40	24	55	18	47	36	495
"	West Malling Airfield	304	44	98	35	6	32	24	34	26	51	23	38	56	467
"	Dartford (Central Park)	17	29	73	18	6	23	18	39	31	50	24	31	37	379
Sussex	Tangmere Airfield	52	81	114	65	12	30	33	55	44	67	49	30	77	657
"	Horsham (Sewage Disposal Works)	120	67	112	40	5	31	24	52	38	70	32	30	64	565
"	Worthing (Beach House Park)	25	54	93	41	4	23	25	37	26	54	28	27	42	454
"	Hastings (White Rock)	149	77	98	45	13	30	13	32	21	56	36	35	41	497
"	Crawley (Broadfield)	300	69	102	36	7	32	22	48	36	57	42	30	58	539
Hampshire	Hurn (Bournemouth Airport)	33	62	84	64	7	31	15	36	40	50	43	21	54	507
"	Liss	195	83	117	67	12	22	70	76	42	92	53	26	69	729
"	South Farnborough (R.A.E.)	226	52	73	28	9	34	15	38	26	76	34	36	62	483
Berkshire	Maidenhead (Sewage Works)	81	31	61	34	7	24	14	39	30	49	33	24	48	394
"	Abingdon Airfield	210	49	72	52	14	38	25	50	45	71	37	25	68	546
Middlesex	Isleworth (Mogden Works)	33	36	65	33	9	23	12	37	29	46	29	29	37	385
"	London Airport	82	40	67	26	8	23	12	35	34	51	27	28	58	409
"	Harmondsworth (Road Research Lab.)	80	41	71	44	9	27	15	44	37	53	32	35	45	453
"	Hanwell	36	37	54	35	8	23	11	34	21	58	30	25	33	369
"	Brent Reservoir	138	35	69	39	6	24	11	38	24	56	31	21	37	391
"	Southgate (Oakwood Park)	220	27	69	32	2	17	12	42	19	46	28	25	41	360

Table 5A. Duration of Rainfall at 145 Stations during 1957 (Monthly and Annual values) (continued)

County and River Division	Station	Height above Sea	DURATION OF RAINFALL												Year
			Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
		ft.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.
Hertford.....1	Garston (Building Research Station)...	250	37	68	38	7	24	16	40	28	56	44	20	48	426
".....3	Stevenage (Broomin Green)	307	44	64	46	9	27	24	49	29	62	51	31	49	485
Buckingham .3	Eton (Tangier Island)	67	41	74	42	8	26	14	48	26	52	29	32	51	443
Oxford.....4	Benson Airfield	219	55	79	48	10	30	24	45	47	61	40	28	61	528
Northampton 4	Wittering Airfield	260	39	56	51	12	29	29	36	36	75	24	34	61	482
Bedford ....4	Silsoe (Wrest Park)	195	22	49	35	5	18	16	33	21	48	33	12	39	331
Essex .....1	Stansted Airport	330	36	59	45	6	22	23	44	31	61	51	48	50	476
".....5	Colchester (Waterworks)	38	27	54	30	3	26	21	40	21	48	19	27	33	349
Suffolk .....2	Ipswich (Belstead Hall)	123	28	47	33	8	25	21	35	31	44	26	34	34	366
".....3	Felixstowe	10	40	64	47	5	38	26	38	27	71	31	37	53	477
".....5	Mildenhall	15	37	53	52	4	21	22	39	24	64	26	19	38	399
Norfolk .....1	West Raynham Airfield	250	53	51	52	9	29	31	40	26	75	33	25	56	480
".....4	Marham Airfield	76	59	53	57	3	21	21	38	28	64	27	22	43	436
Wiltshire ....1	Lynham Airfield	456	81	76	71	11	31	22	54	58	72	39	24	59	598
".....3	Salisbury (Sewage Works)	147	51	64	49	10	25	9	43	30	50	53	26	56	466
".....3	Porton (C.D.E.E.)	363	47	82	76	13	34	15	44	36	60	44	19	80	550
".....3	Boscombe Down Airfield	417	62	79	54	13	28	18	52	35	53	46	23	68	531
Dorset .....3	Portland Bill	32	60	73	60	10	23	12	36	28	37	35	19	43	436
Devon, S.....2	Plymouth (Mount Batten)	90	68	89	91	10	42	16	43	39	55	43	26	60	582
".....6	Exmouth (Salterton Road)	195	67	88	65	2	29	15	25	31	41	30	18	54	465
".....6	Clyst Honiton (Exeter Airport)	106	63	89	63	1	28	23	32	29	35	30	16	59	468
Devon, N.....2	Chivenor Airfield	20	70	88	93	11	35	25	49	43	75	64	30	61	644
Cornwall ....1	St. Mawgan Airfield	337	73	79	99	17	31	25	38	51	59	58	41	65	636
Somerset ....1	Litton (Sherborne Reservoir)	336	109	102	99	5	47	39	61	55	87	55	43	66	768
".....3	Bickenhall	231	84	118	76	7	34	29	41	39	60	38	17	88	631
".....3	Bridgwater (Northmoor Pumping Stn.) ..	23	66	92	62	2	29	33	43	38	67	32	17	65	546
".....4	Wootton Courtenay (Ford Cottage)	486	127	114	105	7	47	31	78	67	116	103	46	94	935
".....4	Minehead (Blenheim Gardens)	37	52	91	43	3	31	23	40	29	66	48	44	64	534
Gloucester ...5	Bristol (Filton)	192	60	74	81	10	40	26	46	45	74	71	31	77	635
".....7	Little Rissington Airfield	740	93	89	90	12	50	27	61	71	78	64	34	83	752
Hereford ....1	Ross-on-Wye	223	41	53	47	0	21	13	27	26	54	28	28	47	385
Shropshire ...4	Shawbury Airfield	235	31	38	46	6	25	40	47	61	87	29	26	30	466
Stafford ....3	Keele (University College of N. Staffs) ..	587	42	48	63	8	28	46	64	65	108	45	25	50	592
Worcester ...3	Defford Airfield*	56	40	49	60	1	26	28	39	51	54	28	23	43	442

* Pershore from 8.11.57.

Table 5A. Duration of Rainfall at 145 Stations during 1957 (Monthly and Annual values) (continued)

County and River Division	Station	Height above Sea	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		ft.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.
Warwick4	Elmdon (Birmingham Airport)	324	46	56	63	5	28	24	47	44	77	34	24	53	501
"4	Birmingham (Erdington, Spring Lane)	386	50	55	53	21	32	36	50	68	100	49	26	41	581
Leicester4	Leicester (De Montfort Square)	250	39	49	48	5	26	24	35	36	72	26	24	53	437
"4	Loughborough (Nanpantan Reservoir)	269	57	52	55	11	25	22	33	46	94	31	30	60	516
Lincoln3	Boston (Church Road Pumping Stn.)	8	54	56	52	8	35	35	46	31	69	32	33	52	503
"3	Cranwell Airfield	203	28	58	49	10	26	33	50	33	72	25	52	57	493
"4	Manby Airfield	55	51	47	31	15	49	32	27	45	86	48	38	75	544
"5	Watnall	366	55	64	58	7	21	36	35	38	95	43	32	64	548
Nottingham1	Appleton Reservoir	120	41	43	58	17	22	36	59	46	129	51	21	42	565
Cheshire1	Ringway (Manchester Airport)	248	43	53	65	15	20	38	80	68	132	57	23	72	666
"1	Barrowmore	114	33	58	47	14	29	29	54	46	131	33	19	47	540
"3	Speke (Liverpool Airport)	77	45	50	60	17	25	40	75	59	135	53	20	61	640
Lancs, S.2	Liverpool (Monument Place)	124	40	47	54	10	28	30	50	58	113	53	21	63	567
"2	Bolton (Queen's Park)	342	84	69	94	24	29	53	112	90	145	107	42	89	938
"3	Rawtenstall (Cemetery)	572	119	78	110	22	33	55	96	64	102	109	40	104	932
"3	Squires Gate (Blackpool Airport)	33	70	60	76	11	43	32	63	54	104	80	30	66	689
Lancs, C.1	Colne (Judge Fields)	559	97	82	109	17	24	41	90	84	143	109	47	119	962
"1	Lindholme Airfield	18	27	39	40	6	14	30	40	42	76	28	27	51	420
Yorks, W.R.6	Sheffield Waterworks (Rivelin)	564	41	57	60	1	22	30	42	55	92	37	35	99	570
"7	Langsett Reservoir	820	72	57	56	10	22	28	42	73	114	68	45	114	701
"7	Bradford (Shearbridge Depot)	400	80	53	57	6	23	35	45	49	79	57	27	58	569
"9	Leeds (Farnley Hall)	405	38	44	53	8	15	30	31	55	92	41	32	43	482
"9	Skipton (Town Hall)	367	80	47	72	11	14	28	46	78	75	78	35	68	632
"9	Driffield Airfield	69	53	54	48	20	28	29	43	41	78	62	66	63	585
Yorks, E.R.3	Dishforth Airfield	106	35	48	51	8	15	41	46	67	70	66	33	51	531
Yorks, N.R.2	Thirsk (Topcliffe Airfield)	81	33	36	28	4	14	30	50	56	50	47	26	74	448
"2	Felixkirk (Mount St. John)	540	42	56	40	16	21	38	61	69	78	47	28	49	545
"2	Middlesbrough (South Bank)	41	32	51	24	11	17	36	52	40	68	35	26	37	429
"6	Darlington (Waterworks)	161	45	42	21	6	14	27	60	34	79	40	19	38	425
Durham1	Middleton St. George Airfield	93	44	38	30	8	25	39	57	48	68	48	29	41	475
"1	Forest-in-Teesdale	1250	175	107	107	33	49	39	109	87	90	104	85	138	1123
"1	Acklington Airfield	138	66	68	63	19	30	29	59	59	57	37	24	39	550
Northumb5	Silloth Airfield	25	68	47	74	25	38	16	41	54	81	74	27	57	602
Cumberland1	Keswick (High Hill)	254	134	85	74	27	66	28	67	93	110	114	44	116	958
"2	St. Bees Head Lighthouse	400	72	55	61	25	37	27	45	49	87	76	33	82	649

Table 5A. Duration of Rainfall at 145 Stations during 1957 (Monthly and Annual values) (continued)

County and River Division	Station	Height above Sea	DURATION OF RAINFALL												Year
			Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
		ft.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.
Westmorland 5	Moor House (Dufton)	1850	142	111	94	35	48	41	108	128	130	113	68	130	1148
Glamorgan 3	Swansea (Victoria Park)	32	82	69	103	9	35	22	51	42	97	76	43	53	682
" 5	Rhose Airfield	220	81	81	99	12	29	34	60	61	95	67	37	53	709
" 7	Cardiff (Penylan)	202	111	71	106	11	27	30	61	65	98	98	54	93	825
Cardigan 2	Aberporth	376	101	65	103	11	35	34	72	39	93	69	28	63	713
Brecknock 4	Taf Fechan (Pontsticill)	1031	166	102	168	13	46	27	92	75	127	105	43	115	1079
" 7	Swansea Waterworks (Cray Reservoir) ..	1043	216	163	148	18	70	40	112	96	144	105	45	112	1269
Montgomery 5	Lake Vyrnwy (Experimental Station) ..	995	152	68	93	11	36	35	66	81	115	82	38	85	862
Caernarvon 5	Snowdon (Cwm Dyli)	310	202	126	162	43	65	64	201	132	198	151	83	152	1579
Anglesey 5	Holyhead (Valley Airfield)	32	92	69	81	11	41	36	79	56	109	69	38	73	754
Isle of Man	Ronaldsway Airport	55	51	50	61	15	41	24	34	42	87	72	38	65	580
Channel Islands	St. Peter (Jersey Airport)	273	36	130	46	14	19	13	24	35	52	25	29	64	487
Wigtown 3	West Freugh Airfield	52	75	55	81	33	50	24	64	60	97	71	39	107	756
Kirkcudbright 3	Dalry (Glenlee)	181	115	74	137	59	72	32	77	85	98	91	57	146	1043
Dumfries 5	Eskdalemuir Observatory	794	140	85	117	64	46	38	62	98	91	125	62	118	1046
Berwick 3	Swinton House	200	64	60	45	11	26	25	55	56	51	39	31	40	503
Midlothian 4	Moorfoot Hills (Gladhouse Reservoir) ..	915	62	56	58	24	48	28	70	63	52	36	31	60	557
" 5	Midcalder (Howden)	400	77	49	51	26	50	30	87	68	55	54	45	71	663
" 5	Liberton (Alnwick Hill)	407	71	75	48	20	44	23	77	54	41	37	31	51	572
Lanark 4	Crawford (Camps Reservoir)	969	107	68	89	37	42	24	39	64	56	78	39	75	718
" 5	Bothwell (Sewage Works)	112	77	59	72	37	55	31	66	69	52	58	33	62	671
Ayr 2	Prestwick Airport	30	72	56	60	47	44	36	50	59	63	101	37	55	680
Renfrew 2	Renfrew (Glasgow Airport)	26	105	63	87	47	56	32	63	53	52	83	38	85	764
" 3	Greenock (Prospect Hill)	199	118	87	135	58	65	37	90	67	72	111	50	124	1014
Dunbarton 3	Loch Sloy (Sloy Power Station)	40	185	133	202	83	83	67	96	113	100	204	81	212	1559
Argyll 11	Loch Fyne (Lepinmore)	30	159	103	142	68	43	49	87	85	82	110	72	134	1134
" 14	Tiree Airport	29	127	61	114	49	55	45	84	64	53	111	57	114	934
Fife 3	Leuchars Airfield	33	63	70	59	21	37	14	75	39	30	33	38	61	540
Kincardine 1	Fettercairn (Glensaugh)	560	60	77	94	43	49	32	100	80	49	43	54	70	751
Aberdeen 2	Dyce (Aberdeen Airport)	185	41	58	51	35	38	34	104	65	48	39	43	61	617
" 4	Rattray Head (Coastguard Station)	85	45	47	72	40	30	45	76	70	52	55	43	61	636
Moray 5	Kinloss Airfield	15	41	32	74	21	21	41	106	72	37	31	52	58	586
Inverness 5	Dalcross Airport	34	56	47	75	17	21	43	85	95	39	36	40	57	611
" 17	Fort William (Teviot)	34	203	94	152	60	60	69	88	98	63	150	61	201	1284
" 19	Benbecula Airport	18	125	58	110	61	54	35	53	66	43	122	74	116	917

Table 5A. Duration of Rainfall at 145 Stations during 1957 (Monthly and Annual values) (concluded)

County and River Division	Station	Height above Sea	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		ft.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.
Ross and Cromarty .10	Stornoway Airport	11	116	40	109	60	43	59	75	77	46	136	53	142	956
Caithness2	Wick Airport	119	57	30	89	37	31	58	63	101	86	71	68	104	795
Orkney	Grimsetter Airport	84	84	50	109	52	45	74	64	81	86	96	92	127	960
Shetland	Lerwick Observatory	269	94	78	75	61	50	51	84	62	87	126	90	117	975
Armagh5	Seagahan Reservoir	525	105	62	70	40	35	20	69	89	88	70	48	131	827
Antrim5	Aldergrove Airfield	220	75	41	74	57	33	24	84	65	88	62	38	133	774
Londonderry .5	Ballykelly Airfield	10	93	51	79	33	27	19	113	63	90	63	44	91	766

Table 5B. Mean Rate of Rainfall at 15 Stations during 1957 (Monthly and Annual values)

County and River Division	Station	Rain-fall 1957	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		in.	in. per hr.	in. per hr.	in. per hr.	in. per hr.	in. per hr.	in. per hr.	in. per hr.	in. per hr.	in. per hr.	in. per hr.	in. per hr.	in. per hr.	in. per hr.
London2	St. Pancras (Camden Square)	22.06	.042	.043	.029	.026	.042	.055	.083	.092	.046	.061	.074	.037	.052
Suffolk5	Mildenhall Airfield	22.07	.034	.038	.031	.021	.043	.117	.073	.100	.065	.043	.075	.045	.055
Devon, N.2	Chivenor Airfield	33.47	.037	.057	.033	.019	.059	.063	.064	.073	.061	.067	.064	.032	.052
Gloucester5	Bristol (Filton)	29.11	.053	.044	.037	.072	.040	.060	.075	.045	.053	.038	.078	.025	.046
Leicester4	Loughborough (Nanpantan Reservoir)	27.25	.032	.052	.040	.020	.053	.056	.108	.056	.063	.046	.073	.034	.053
Yorks, N.R.2	Dishforth Airfield	24.74	.041	.041	.025	.035	.053	.041	.084	.070	.042	.036	.039	.042	.047
Cumberland2	Keswick (High Hill)	56.36	.067	.062	.048	.039	.043	.053	.053	.081	.061	.055	.048	.060	.059
Cardigan2	Aberporth	37.73	.031	.052	.032	.027	.061	.055	.067	.052	.080	.058	.083	.048	.053
Caernarvon5	Snowdon (Cwm Dylli)	153.93	.125	.082	.085	.051	.096	.065	.093	.101	.093	.140	.072	.096	.098
Dumfries5	Eskdalemuir Observatory	59.74	.073	.063	.045	.045	.048	.045	.079	.068	.047	.062	.038	.053	.057
Argyll14	Tiree Airport	45.14	.046	.052	.041	.036	.051	.052	.061	.057	.056	.044	.041	.049	.048
Aberdeen2	Dyce (Aberdeen Airport)	34.61	.057	.040	.045	.038	.039	.106	.075	.067	.049	.037	.033	.064	.056
Ross and Cromarty .10	Stornoway Airport	47.32	.054	.060	.038	.040	.052	.059	.031	.067	.072	.039	.057	.051	.050
Shetland	Lerwick Observatory	46.67	.056	.056	.058	.038	.048	.050	.035	.051	.048	.050	.046	.041	.048
Antrim5	Aldergrove Airfield	34.22	.049	.038	.031	.020	.053	.068	.050	.065	.054	.053	.028	.036	.044

Table 5C. Mean Monthly and Annual Duration of Rainfall in hours, 1941-50

County and River Division	Station	Height above Sea	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
London 2	St. Pancras (Camden Square)	ft. 110	53	43	39	35	33	32	31	31	31	33	50	43	454
Surrey 5	Croydon Airport	201	75	59	51	44	44	36	33	39	39	41	69	63	593
" 4	Key Observatory	18	52	39	38	31	34	28	26	30	28	31	47	41	425
Kent 4	Strood Waterworks	112	55	43	38	35	32	25	30	31	28	34	54	49	454
Hampshire 7	Petersfield (Stoner Hill)	748	79	47	50	41	36	37	37	48	47	44	68	67	601
" 8	South Farnborough (R.A.E.)	226	60	42	38	37	38	29	29	38	33	37	56	49	486
Hertford 2	Harpden (Rothamsted)	420	63	52	42	33	35	30	28	35	34	37	58	47	494
Suffolk 2	Ipswich (Belstead Hall)	123	47	35	34	24	20	23	17	21	24	28	47	39	359
Wiltshire 3	Boscombe Down Airfield	417	76	43	45	38	37	35	33	46	44	44	70	61	572
Cornwall 2	Falmouth Observatory	169	84	62	60	38	47	42	45	49	45	55	72	81	680
Hereford 1	Ross-on-Wye	223	53	34	36	28	38	23	20	30	28	33	49	46	418
Lincoln 3	Cranwell Airfield	203	70	55	43	41	41	36	35	36	36	38	62	41	534
Nottingham 5	Nottingham (Sneinton Pumping Stn.)	83	51	42	37	31	31	26	28	33	27	32	49	35	422
Derby 6	Burbage (Lower Burbage)	924	90	70	37	51	50	38	40	55	46	55	88	64	684
Lancs, S. 3	Bolton (Queen's Park)	342	94	65	45	51	44	49	52	60	63	60	76	76	735
" 3	Southport (Hesketh Park)	38	68	49	43	37	41	38	37	45	47	46	55	51	557
Yorks, W.R. 9	Earby (Sewage Works)	426	73	60	39	40	32	36	35	46	42	49	58	61	571
" N.R. 2	Felixkirk (Mount St. John)	540	69	51	36	38	32	39	34	47	36	35	58	48	523
Glamorgan 3	Swansea (Victoria Park)	32	68	44	42	34	44	37	42	49	50	52	60	64	586
Brecknock 7	Swansea Waterworks (Cray Reservoir)	1043	130	81	82	65	70	70	63	79	88	82	101	123	1034
Anglesey	Holyhead (Salt Island)	28	90	56	59	44	43	48	43	50	58	59	66	74	690
Dumfries 5	Eskdalemuir Observatory	794	135	111	98	95	72	87	85	90	107	109	117	118	1224
Renfrew 3	Greenock (Prospect Hill)	199	118	85	71	74	57	60	58	75	90	103	86	109	986
Argyll 14	Tiree Airport*	29	97	67	60	62	45	64	67	59	86	89	86	92	874
Fife 3	Leuchars Airfield	33	70	52	45	37	55	41	41	49	44	56	58	51	599
Aberdeen 1	Aberdeen Observatory†	79	78	52	41	42	52	38	41	47	45	54	63	50	603
Ross and Cromarty 10	Stornoway Airport†	11	89	63	59	65	38	57	55	48	90	66	79	92	801
Shetland	Lerwick Observatory	269	98	76	66	65	44	49	48	46	69	73	86	94	814
Antrim 5	Aldergrove Airfield	220	87	57	54	47	48	46	54	52	66	64	64	76	715

* 9 years only; 1943 not included.

† Dyce (Aberdeen Airport) 1948-50.

‡ 7 years only, 1944-50.

Table 5D. Mean Monthly and Annual Rates of Rainfall in inches an hour, 1941-50

County and River Division	Station	Height above Sea	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		ft.													
London 2	St. Pancras (Camden Square)	110	.042	.039	.039	.043	.059	.059	.073	.072	.055	.063	.046	.045	.051
Wiltshire 3	Boscombe Down Airfield	417	.037	.038	.036	.045	.064	.050	.060	.061	.058	.071	.042	.046	.049
Cornwall 2	Falmouth Observatory	169	.058	.054	.048	.056	.072	.052	.058	.072	.071	.067	.066	.060	.061
Hereford 1	Ross-on-Wye	223	.051	.055	.053	.064	.069	.064	.080	.091	.084	.071	.054	.058	.064
Lincoln 3	Cranwell Airfield	203	.031	.031	.030	.037	.049	.055	.064	.062	.056	.054	.038	.038	.043
Lancs, S. 3	Bolton (Queen's Park)	342	.053	.056	.057	.052	.068	.062	.069	.084	.069	.073	.060	.057	.063
Yorks, N.R. 2	Felixkirk (Mount St. John)	540	.043	.039	.040	.048	.056	.055	.069	.068	.065	.056	.046	.042	.051
Brecknock 7	Swansea Waterworks (Cray Reservoir)	1043	.058	.059	.053	.057	.075	.062	.071	.081	.071	.080	.065	.065	.066
Anglesey	Holyhead (Salt Island)	28	.048	.043	.039	.040	.052	.037	.054	.055	.058	.056	.051	.047	.048
Dumfries 5	Eskdalemuir Observatory	794	.051	.043	.043	.049	.053	.051	.049	.060	.061	.050	.050	.050	.051
Renfrew 3	Greenock (Prospect Hill)	199	.062	.065	.055	.060	.056	.056	.075	.065	.067	.070	.065	.060	.063
Aberdeen 1	Aberdeen Observatory*	79	.040	.036	.041	.037	.055	.056	.062	.067	.058	.053	.050	.050	.050
Ross and Cromarty . 10	Stornoway Airport†	11	.050	.057	.048	.054	.049	.049	.047	.061	.062	.057	.059	.060	.055
Shetland	Lerwick Observatory	269	.043	.047	.040	.046	.050	.046	.054	.060	.058	.054	.057	.050	.050
Antrim 5	Aldergrove Airfield	220	.040	.033	.036	.046	.053	.052	.067	.062	.055	.053	.041	.043	.048

† 7 years only, 1944-50.

* Dyce (Aberdeen Airport) 1948-50.

6 Heavy Falls in Short Periods in 1957

Heavy falls of rain in short periods are of great importance because of the inconvenience or damage which they may cause. Information given in this section supplements that in Section 7, Heavy Falls on Rainfall Days, which deals with falls of longer duration and usually relates to widespread flooding rather than sudden damage over limited areas.

Table 6A indicates the classification used since January 1, 1936, and described in full in an article in Part IV of *British Rainfall* 1935. The diagram showing the full classification was printed in the volumes for 1935 to 1938.

A list of falls of "very rare" intensity lasting for *one hour or less* which were recorded between 1873 and 1938 was published in

British Rainfall 1938, and a supplementary table giving similar data for the years 1939 to 1946 was printed in *British Rainfall* 1946. Table 6E, published for the first time this year, includes details of "very rare" falls from 1936 to 1956 which were of duration *two hours or less*. It is proposed to supplement this summary by publishing similar data for years prior to 1936 in *British Rainfall* 1958.

Table 6B gives particulars of falls recorded in 1957 which reached at least the intensity "noteworthy". In each case the entry gives the largest amount recorded with a mean intensity "noteworthy", "remarkable" or "very rare", an entry in the highest category being in general preferred. Entries are

Table 6A. Lower Limits of Intense Rainfalls

Time	Noteworthy			Remarkable			Very Rare		
	Amount		Rate	Amount		Rate	Amount		Rate
min.	in.	mm.	in./hr.	in.	mm.	in./hr.	in.	mm.	in./hr.
5 or less	·43	10·9	5·16	·68	17·3	8·16	1·06	26·8	12·72
10 " "	·54	13·8	3·24	·85	21·6	5·10	1·31	33·2	7·86
20 " "	·68	17·3	2·04	1·06	26·8	3·18	1·61	40·9	4·83
30 " "	·77	19·7	1·54	1·19	30·3	2·38	1·82	46·2	3·64
40 " "	·85	21·6	1·27	1·30	33·2	1·95	1·98	50·3	2·97
50 " "	·91	23·2	1·09	1·40	35·6	1·68	2·12	53·8	2·55
60 " "	·97	24·5	·97	1·48	37·6	1·48	2·24	56·8	2·24
70 " "	1·01	25·7	·87	1·55	39·4	1·33	2·34	59·5	2·01
80 " "	1·05	26·8	·79	1·61	40·9	1·21	2·44	61·9	1·83
90 " "	1·09	27·8	·73	1·67	42·4	1·11	2·52	64·0	1·68
100 " "	1·13	28·8	·68	1·72	43·8	1·03	2·60	66·0	1·56
110 " "	1·16	29·6	·63	1·77	45·0	·97	2·67	67·8	1·46
120 " "	1·19	30·4	·59	1·82	46·2	·91	2·73	69·4	1·37

credited to the calendar day rather than the "rainfall day" and times quoted are G.M.T.

In Table 6B there are 53 entries compared with 72 in 1956 and an average of 56 for the 32-year period 1925-56. All the falls in 1957 occurred in the period June to August, whereas it is usual to find about 85 per cent of the falls occurring within these three months.

Table 6C also includes falls which have reached a category "noteworthy" or higher, but these falls have been excluded from Table 6B either because there is some doubt about the magnitude or duration of the falls or because the duration is known to have exceeded two hours. Unless otherwise stated, entries in Tables 6B and 6C are referred to without distinction in the following descriptive text.

Most of the ten heavy falls reported in *June* occurred either on the 8th or 18th. Three "very rare" falls were reported from the Camelford area on the 8th (see Section 7). The rainfall, heavy hail and serious flooding in this area are described in an article, "Heavy rainfall at Camelford, August 8, 1958", published in the *Meteorological Magazine*, Vol. 86, 1957, pp. 339-343. Thunderstorms and heavy rain occurred over southern England and south-west Wales on the 18th. The storms were particularly heavy over Pembrokeshire and Cardiganshire, but in spite of squalls to gale force no widespread damage was reported. Parts of the town of Andover, Hampshire, were flooded to a depth of 18 in. during a heavy thunderstorm which reached the "noteworthy" category on the afternoon of the 18th. On the same day in Devonshire there were floods to a depth of 3 to 4 ft. at Stokeinteignhead and one to 2 ft. in parts of Teignmouth, when "noteworthy" falls were recorded. Thunderstorms and heavy rain were reported on the 30th from an extensive area including much of southern and eastern England. On the same day storms also affected parts of eastern Scotland as far north as Caithness. Many roads were flooded in north Wiltshire and adjacent counties. Heavy rain with hail did considerable damage

to the cherry crop in Kent just as it was about to be gathered. Thunderstorms in East Anglia were accompanied by squalls to gale force in places and there was damage to property in Lowestoft and flooding to a depth of one foot in parts of Yarmouth. Temporary flooding was reported on the same day from many parts of Yorkshire, including Wetherby, Mexborough, Hull and along the Great North Road near Leeming Bar, but the only exceptional fall reported was one reaching the "noteworthy" category at Tockwith School in the West Riding.

Thunderstorms were more frequent than usual in *July*, a number of stations reporting them on 8 or 9 days during the month, and the heavy falls of 1957 were more than usually concentrated in July, about 55 per cent of the heavy falls shown in Table 6B occurring in this month, compared with a long term average of about 38 per cent. Three-quarters of the total number of heavy falls in Tables 6B and 6C for July occurred during the first seven days, and floods were reported from some parts of England and Wales on most days during this period. Reports of flooding came mainly from southern England, north-east Wales, Lincolnshire and Yorkshire on the 3rd. Severe thunderstorms were reported along the south coast of England on this date. A "very rare" fall at Plymouth gave nearly 2.5 in. in an hour, and it is believed that even heavier rain fell just to the west of the city. Numerous fires were started in Plymouth by lightning and there was extensive damage by flooding, although in general there was a fairly rapid subsidence of flood water after the storm had moved away to the north. Another "very rare" fall is believed to have occurred at Hastings where it is thought that 1.53 in. fell in about 15 min., but this fall has not been included in Tables 6B or 6C because the duration of the storm is very uncertain. Falls of "remarkable" intensity were recorded at Deal, Dover, Eastbourne and Harlech. Roads in Deal were flooded to a depth of 2 ft. and the Eastbourne flooding was described as the worst for at least 40 years. Hail in

Kent again did extensive damage to fruit. The storms on the 4th were largely confined to the Midlands, Montgomeryshire and Denbighshire, although a "noteworthy" fall, the second within a month, caused flooding in Andover. At Evesham there was damage by lightning, wind, hail and flood water when a "remarkable" fall was accompanied by gusts of wind exceeding gale force. Low lying parts of the town were temporarily under 5 ft. of flood water at the height of the storm. The Midlands were again affected by heavy falls on the 6th, and there were heavy falls on the same day in parts of Lincolnshire, Yorkshire, Derbyshire and north Wales. A "very rare" fall occurred at Chilcote, Leicestershire, where more than 3 in. fell in 85 minutes, but little flooding or damage was reported. A fall in the same category occurred at Church Gresley, Derbyshire. Mr. J. W. May, Engineer, Surveyor and Water Engineer to the Swadlincote U.D.C., reported that there was severe flooding at Swadlincote, a little more than a mile to the east-north-east of Church Gresley. "Much damage was done, even to the extent of floating a large gasometer which was under repair and tipping it about 7 degrees". During a "remarkable" fall at Rhyl shops and streets were flooded to a depth of nearly 2 ft. and the fire service was busy all night pumping flood water. Another "remarkable" fall at Newport, Shropshire, gave rise to widespread flooding in low lying areas and there was damage to corn and other crops. There were further heavy falls over southern England on the 7th and 11th, sufficiently intense to cause flooding in urban areas yet not quite reaching the "noteworthy" category. Heavy falls on the 12th were largely confined to south-west Scotland, including the Glasgow area, but a few isolated heavy falls were also reported from northern England. Flooding to a depth of one foot occurred in Dumfries, but the flood water soon subsided. Roads in the Paisley area were under 3 to 4 ft. of water during a heavy thunderstorm. Houses were flooded in Newton Stewart and drains and sewers burst at the height of one of the many

storms which affected Wigtownshire and Kirkcudbrightshire. At Otley, in Yorkshire, the River Wharfe rose 4 ft. in a few minutes as the result of a very heavy thunderstorm further upstream, and a number of anglers had narrow escapes. Further storms and flooding were reported from the Midlands and northern England between the 14th and 17th and one fall at Pontefract on the 16th reached the "remarkable" category. Heavy falls and thunderstorms were again reported over the Midlands between the 19th and 21st and also occurred in south-east England, Yorkshire, Lancashire and east Scotland. There was flooding in many urban areas of Kent on the 19th, flood water reaching a depth of 3 ft. in Bromley. "Very rare" falls were recorded within a distance of about 4 miles in Hertfordshire, at Buntingford and Meesden, with some flooding in the former area. One of the most spectacular floods of the year occurred at the Royal Welsh Show site at Aberystwyth. Heavy rain fell over much of the Rheidol Valley in the early hours of the 26th, some of the heaviest rain probably falling near Ponterwyd, about ten miles from Aberystwyth. Flood water moving down the Rheidol, which passes close to the show site, met an incoming tide. The river burst its banks and within a short while most of the site was under 3 ft. of water.

Seventeen of the heavy falls in Table 6B occurred in *August* compared with a long-term average of 14 for this month. All the falls occurred within the first half of the month. There were violent thunderstorms and heavy rainstorms over Wales, the Midlands and eastern England between the 4th and 6th—the Bank Holiday week-end. On the 4th the storms were confined to Wales, where, at Marteg in the Upper Wye Valley, sheep and cattle were washed away and drowned as streams rose rapidly following exceptionally heavy rain. On the 5th the storms were mainly in Wales and the Midlands but they spread north and east into Yorkshire and Lincolnshire by the early hours of the 6th. A "very rare" fall is believed to have occurred

at Llangurig (Lluggant), Montgomeryshire, on the 5th, when about 4 in. fell in 120 min.: it was also reported that upstream of Llangurig the River Wye reached its highest level for 40 years. Llanidloes, Montgomeryshire, about four miles to the north-east of Llangurig, suffered heavy damage as two streams burst their banks following a storm of "remarkable" intensity. A main road was flooded to a depth of 3 ft. and many houses and shops were flooded and damaged. Severe damage to crops by driving rain and hail and to buildings by lightning and flood was reported from Bwlchyllan (Nantcwnlle), Cardiganshire, on the same day, when 3.43 in. fell in 120 min.—a "very rare" fall. A third "very rare" fall was recorded at Clifford School, Herefordshire, when 4.11 in. fell in 90 min., also a new record fall in Herefordshire in a rainfall day and the second heaviest fall in 90 min. recorded in the United Kingdom. The Headmaster reported that hail and strong winds stripped fruit from trees, crops were damaged and animals killed by lightning. The main road to Hereford was blocked by landslides, and a motorcyclist swept from his machine by flood water and drowned. Barley and wheat were flattened and root-crops damaged. The north Midlands were affected by thunderstorms late in the evening of the 5th and some of the storms continued until well after dawn on the 6th. Some of the heaviest rain occurred in Derbyshire, and the Engineer to the Trent River Board reported that the worst affected area lay within the triangle Ashbourne, Sudbury, Egginton. At Rodsley Pumping Station a total of 5.97 in. fell in two storms between 11 p.m. on the 5th and about 7.30 a.m. on the 6th. This total is the greatest amount recorded in a rainfall day in Derbyshire, although it is believed that even heavier rain fell over Darley Moor, about 2 miles to the west of the pumping station. Extensive flooding developed as six streams within this area overflowed. Three cottages at Foston were flooded to a depth of more than 6 ft. and the bridge on the main Derby to Uttoxeter road was partly demolished by the overflowing

Foston Brook. Further downstream 25 houses in Scropton and 293 houses in Halton—nearly all the houses in the village—were flooded to depths of between 6 in. and 18 in. Many roads and houses in Hilton were flooded by the overflowing Hilton Brook. Flood waters of the Shelston Brook overturned tractors and rose to ceiling height in a number of cottages in Shelston village in less than an hour. Flood water of the Henmore Brook caused damage to roads and to property in Ashbourne, where further flooding occurred when the storm-water sewers were no longer able to handle the extremely heavy rain. Further heavy falls and floods were reported on the 6th from Warwickshire, West Riding, Nottinghamshire and Lincolnshire, where, at Scunthorpe, sections of the Redbourne steelworks were brought to a standstill by flooding from Bottesford Beck which submerged a pumphouse to a depth of 15 ft. In spite of the wide area affected by the storms there was only one fall, that at Retford, Nottinghamshire, which reached the "noteworthy" category. There was a "remarkable" fall at Holme-next-Sea, Norfolk, on the 8th and a "noteworthy" fall at Harlech, Merionethshire. Reports of heavy falls and temporary flooding with delays to rail and road traffic were received from Yorkshire, Nottinghamshire, Derbyshire and Kent, but none was "noteworthy". Heavy falls occurred on the 10th in south-west Scotland, Lancashire and north Wales where there were periods of more continuous heavy rain (see Section 7). Minor flooding was reported from Ayr and Newton-on-Ayr, Ayrshire, from Blackpool, Lancashire, and Llansadwrn, Anglesey, where a "very rare" fall lasting just over two hours gave 5.38 in., the highest total in a rainfall day ever recorded in Anglesey. Flooding occurred in the east of the island and also on the mainland. At Llandudno a fall of nearly 2 in. in about three hours coincided with high tide and there was much flooding of basements. Pumping out of flood water was not completed until early on the 12th. Meanwhile there were further heavy falls in parts of north Wales and the Midlands

on the 11th, falls reaching the "noteworthy" category at Alcester, Warwickshire, and Keele, Staffordshire. Landslides occurred in north Wales following two days with heavy rain, and near Bangor the railway was blocked for 18 hours. Clifton and other Derbyshire villages were flooded for the second time within a few days. The areas chiefly affected by the heavy rains of the 12th were the Midlands, and south and east England. Parts of the London area, mainly to the south of the Thames, had further thunderstorms in the early hours of the 13th. Floods in the Wandsworth-Earlsfield area associated with the first storms had hardly begun to subside before further floods undid the clearance work of the previous evening. The total rainfall in these storms exceeded 3 in. in a number of places and a map of the rainfall for the 24 hours ending at 9 a.m. on the 13th is given in Section 7. Two of the very large number of falls reported from the south and west Midlands on the 12th reached the "remarkable"

category, one at Worcester and another at Oxford. At Worcester the Severn was 8 ft. above normal on the morning of the 12th and 10 ft. above normal at Shrewsbury, largely due to the heavy thunderstorms over Wales and the west Midlands in the previous seven days. A "very rare" fall is thought to have taken place at Winscombe, Somerset, early on the 12th when it is estimated that about 2.5 in. fell in 45 min. Heavy rain occurred on the 22nd and there were rather frequent showers for a day or two following gales in many areas on the 24th and 25th, but no "noteworthy" falls were recorded.

September was a wet month in England, Wales and Northern Ireland, and there was flooding in a number of places (see Section 7) but the only "noteworthy" fall was recorded at Dorchester on the 8th and is included in Table 8c. There was flooding to 6 in. to 8 in. in parts of the town, but the storm was very localized and places within a few miles recorded little or no rain.



Table 6B. Heavy Falls in Short Periods in 1957

County and River Division	Station	Date	Amount	Began at	Duration	Rate
(a) EYE OBSERVATIONS			in.	G.M.T.	min.	in./hr.
Suffolk.....4	Homersfield	July 20	·55	06 10	10	3·30
Devonshire, S. ...6	Kenton (The Vicarage).....	June 18	·76	18 00	18	2·53
Warwick.....4	Birmingham (Handsworth)	July 4	·81	17 48	20	2·43
Sussex.....1	Selsey (Oakash)	July 19	·82	16 45	25	1·97
Worcester.....2	Halesowen (Hayley Green)	July 19	·80	15 45	25	1·92
Worcester.....3	Evesham (High Street).....	July 4	1·27	20 05	28	2·72*
Worcester.....3	Evesham (Bengeworth).....	July 4	1·19	20 15	30	2·38*
Merioneth.....3	Harlech (Hendre)	Aug. 8	·82	15 07	30	1·64
Northampton...4	Peterborough (Woodston).....	July 19	·80	14 00	30	1·60
Sussex.....5	Eastbourne (Wilmington Square).	July 3	1·95	06 05	40	2·93*
Hampshire.....4	Andover (Waterworks).....	July 4	1·29	22 35	40	1·93
Worcester.....5	Dudley (Tipton Road).....	July 4	·96	06 35	40	1·44
Flintshire.....2	Rhyl (Dyserth Road)	July 6	1·46	20 00	45	1·95*
Gloucester.....3	Tytherington (Keven)	Aug. 12	·95	13 20	50	1·14
Kent.....1	Dover (Waterloo Crescent).....	July 3	1·57	08 00	60	1·57*
Shropshire.....4	Newport (Harper Adams College)	July 6	1·50	18 45	60	1·50*
Carmarthen.....2	Carmarthen (St. Davids Avenue).	July 20	1·45	13 40	60	1·45
Nottingham.....5	Retford (Babworth Hall)	Aug. 6	1·19	10 30	60	1·19
Dorset.....3	Upwey (Elwell)	June 18	1·10	17 15	60	1·10
Stafford.....2	Maer Hall Gardens.....	July 5	2·95	17 50	63	2·81†
Norfolk.....3	Holme-next-Sea (Holme House)..	Aug. 8	1·70	17 45	75	1·36*
Kent.....2	Deal and Walmer Waterworks...	July 3	1·73	08 00	80	1·30*
Leicester.....4	Netherseal (Chilcote)	July 6	3·36	17 40	85	2·37†
Hereford.....1	Clifford School	Aug. 5	4·11	16 20	90	2·74†
Derby.....3	Church Gresley (Mauricelea Park)	July 6	2·79	17 30	90	1·86†
Yorks, W.R....11	Tockwith School.....	June 30	1·59	17 45	90	1·06
Warwick.....1	Alcester (The Pleck)	Aug. 11	1·52	10 00	90	1·01
Worcester.....2	Worcester (Redhill).....	Aug. 12	1·50	16 30	90	1·00
Denbigh.....2	Denbigh (Mental Hospital)	July 3	1·18	07 30	90	·79
Hampshire.....4	Andover (Clarendon House).....	June 18	1·63	16 00	105	·93
Kent.....2	Dover (Martin Mill Pumping Stn.)	July 3	1·29	07 30	105	·74
Hertford.....3	Anstey (Hall Farm)	July 19	2·88	13 50	110	1·57†
Cardigan.....2	Nantcwnlle (Bwlchyllan)	Aug. 5	3·43	17 20	120	1·71†
Cardigan.....2	Nantcwnlle (Bwlchyllan)	June 8	3·05	15 20	120	1·53†
Stafford.....2	Market Drayton (Loggerheads) ..	July 6	2·53	18 00	120	1·27*
Hampshire.....4	Andover (Waterworks).....	June 18	1·68	16 00	120	·84
Hampshire.....4	Andover (Sewage Works)	June 18	1·66	16 00	120	·83
(b) AUTOGRAPHIC RECORDS						
Flintshire.....2	Rhyl (Westbourne Avenue).....	July 6	·75	20 00	10	4·50
Hertford.....2	Borehamwood (Shenley Road)...	Aug. 12	·80	14 20	15	3·20
Oxford.....3	Oxford (Radcliffe Met. Stn.).....	Aug. 12	1·08	12 00	20	3·24
Surrey.....5	Worcester Park (Sewage Works) ..	Aug. 12	·74	12 15	20	2·22
Middlesex.....1	Stanmore (Training School)	Aug. 12	·71	14 27	20	2·13
Surrey.....5	Kingston (Canbury Gardens)	Aug. 12	1·00	14 15	25	2·40
Sussex.....5	Bexhill (Egerton Park)	July 3	1·06	06 30	30	2·12
Yorks W.R....7	Langsett Reservoir	July 3	·81	07 18	30	1·62
Stafford.....3	Keele (Univ. College of N. Staffs)	July 6	·84	19 06	37	1·36
Stafford.....3	Keele (Univ. College of N. Staffs)	Aug. 11	1·18	14 18	58	1·22
Devonshire, S. ...2	Plymouth (Mount Batten).....	July 3	2·56	02 30	77	1·99†
London.....2	Fulham (Bishop's Park).....	Aug. 12	1·53	14 30	85	1·08
Hertford.....3	Meesden	July 19	3·14	13 54	103	1·83†
Sussex.....5	Hastings (White Rock).....	July 3	1·82	06 45	120	·91*
Surrey.....5	New Malden (Kingston Vale)....	Aug. 12	1·53	13 40	120	·77
Radnor.....1	Birmingham W.W. (Ciloerwynt)..	Aug. 5	1·20	17 30	120	·60

* "Remarkable" fall.

† "Very Rare" fall.

Table 6C. Heavy Falls in Short Periods in 1957. Supplementary List

County and River Division	Station	Date	Amount	Duration	Category
			in.	hr. min.	
Cornwall .....1	Camelford (Roughtor View)	June 8	5.48	3 0	VR
Cornwall .....1	Camelford (Advent)	June 8	c. 5.0	3 0	VR
Cornwall .....1	Delabole	June 8	c. 4.0	3 0	VR
Sussex .....5	Hastings (Newgate)	July 3	1.09	c. 15	R
Merioneth .....3	Harlech (Hendre)	July 3	2.65	2 20	R
Denbigh .....1	Chirk (Old Vicarage)	July 4	2.25	3 0	R
Warwick .....4	Birmingham (Handsworth Pk.)	July 4	.65	10	N
Cambridge ....2	Ely (Prickwillow)	July 10	1.97	2 5	VR
Yorks, W.R. ....9	Pontefract (The King's School) ...	July 16	c. 2.0	2 0	R
Montgomery ...3	Llangurig (Llugnant)	Aug. 5	c. 4.0	c. 2 0	VR
Montgomery ...3	Llangurig (Cefn Brwyn)	Aug. 5	3.78	c. 3 0	VR
Derbyshire .....4	Rodsley (Pumping Station)	Aug. 6	5.97	8 20	VR
Montgomery ...4	Llanidloes (Hillfield)	Aug. 5	2.72	2 50	R
Merioneth .....3	Harlech (Hendre)	Aug. 5	1.54	3 0	N
Anglesey .....2	Llansadwrn (Gadlys Cottage)	Aug. 10	5.38	c. 2 15	VR
Somerset .....2	Winscombe (Wintrath)	Aug. 12	c. 2.5	c. 45	VR
Shropshire .....3	Ludlow (Castle Weir)	Aug. 12	1.50	c. 2 0	N
Worcester .....2	Worcester (Waterworks)	Aug. 12	c. 2.2	3 0	R
Warwick .....1	Bidford (Moor Hall)	Aug. 12	1.40	2 30	N
Essex .....6	Langham (Waterworks)	Aug. 13	1.37	c. 1 0	N
Dorset .....3	Dorchester (Waterworks)	Sept. 8	c. 1.30	2 0	N

Table 6D gives frequencies of falls within stated categories for 33 stations which have been selected from those in Table 5A. The falls are not necessarily continuous nor are they always confined to one calendar day. Not more than one fall of each specified amount is credited to any day; if more than the specified amount fell on any day, that part of it which fell in the shortest time is used for the table. An entry in any of the first four columns under the heading 5 mm. (0.2 inch) naturally recurs in the column or columns to the right, and there is a similar recurrence of the entries under the headings 10 mm. (0.4 inch), 15 mm. (0.6 inch), 20 mm. (0.8 inch) and 25 mm. (1.0 inch).

Table 6F gives the mean number of days per annum on which specified amounts of rain fell in specified times during the years 1937-56. In order to obtain data more nearly representative of the whole of Great Britain and Northern Ireland it has been necessary to use some records which are not complete for the whole 20 years, and also use one or two composite records, that is to combine records from stations which are reasonably close together. Even so it has not been possible to publish a record representative of the Midlands, but means prepared from a short record available from Elmdon (Birmingham Airport) lie about mid-way between those included in the Table for Cranwell and Boscombe Down.

Table 6E. "Very Rare" Falls, 1936-56

Year	Date	County and River Division	Station	Amount	Duration	Rate
				in.	min.	in./hr.
1936	May 6	Bedford.....2	Dunstable (Cement Works).....	2·08	45	2·77
	June 29	Gloucester .....5	Bristol (Tyndalls Park).....	2·00	40	3·00
	June 29	Gloucester .....5	Clifton (Oakfield Road).....	1·95	30	3·90
	June 29	Cornwall.....1	Bodmin (Castle Hill House).....	2·98	60	2·98
	Aug. 10	Surrey.....5	Leatherhead (Windfield).....	2·68	60	2·68
	Aug. 10	Oxford .....4	Goring.....	2·88	120	1·44
1937	July 15	Leicester.....4	Asfordby Hill (Ironworks).....	3·50	120	1·75
	July 19	Lincoln.....2	Spalding (Grammar School).....	2·14	25	5·14
	July 19	Lincoln.....2	Spalding (Surveyor's Depot).....	2·14	30	4·28
	Aug. 13	Middlesex.....1	Acton (Cemetery).....	2·25	60	2·25
1938	Aug. 4	Devonshire, S...4	Paignton (Victoria Park).....	2·71	45	3·61
	Aug. 4	Devonshire, S...5	Torquay (Abbey Park).....	2·25	56	2·41
	Aug. 6	Essex.....5	Lexden (Hill House).....	2·25	60	2·25
	Aug. 7	Sussex.....1	Chichester (Apuldram).....	2·50	45	3·33
	Aug. 10	Ayr.....3	Symington.....	2·44	60	2·44
1939	July 21	Devonshire, S...5	Teignmouth (Woodlands).....	2·38	60	2·38
	Aug. 21	Somerset.....1	Frome Waterworks (Egford).....	2·47	75	1·98
	Sept. 3	Antrim.....5	Randalstown (Hollybrook).....	2·81	75	2·25
1940	May 28	Angus.....3	Brechin (Argyll Street).....	2·75	120	1·37
1941	June 22	Northumberland3	Newcastle-upon-Tyne.....	3·74	85	2·64
	July 13	Buckingham...3	Radnage (Yewdene).....	3·54	100	2·12
	July 13	Buckingham...3	Penn (Rayners).....	3·15	100	1·89
	July 26	Essex.....4	Writtle (Institute of Agriculture) .	3·90	120	1·95
	Oct. 5	Brecknockshire .4	Cardiff W.W. (Beacons Reservoir)	2·25	57	2·37
1942	June 30	Surrey.....5	New Malden (Sewage Works)....	2·16	33	3·93
	June 30	Surrey.....5	Old Malden (Sports Ground)...	2·80	120	1·40
	Aug. 29	Somerset.....2	Burnham.....	2·27	50	2·72
1943	Sept. 12	Somerset.....4	Williton (Catwell).....	2·39	60	2·39
	Sept. 14	Lincoln.....5	Ferriby Sluice.....	1·88	15	7·52
1944	May 29	Cheshire.....1	Rhodes Wood Reservoir.....	3·05	120	1·53
	May 29	Derby.....1	Hayfield (Kinder Filters).....	2·55	73	2·10
1945	July 15	Cheshire.....4	Neston (Vine House).....	1·65	20	4·95
	Aug. 28	Monmouth....3	Newport W.W. (Friar Street Yard)	2·98	114	1·57
1946	June 23	Wiltshire.....3	Salisbury (Manor Road).....	2·04	40	3·06
	June 23	Devonshire, S...6	Cullompton.....	2·35	45	3·13
	June 23	Wiltshire.....3	Salisbury (Atherton House).....	2·12	50	2·54
	June 23	Warwick.....4	Sutton Coldfield (Wylde Green)..	2·85	60	2·85
	June 23	Warwick.....4	Sutton Coldfield (The Park).....	2·74	85	1·93
	July 2	Suffolk.....5	Bury St. Edmunds (Corp. Depot)	2·05	30	4·10
	July 26	Surrey.....5	Kew Observatory.....	1·97	35	3·37
1947	July 16	Surrey.....6	Byfleet (Wisley R.H.S. Gardens) .	4·00	75	3·20
	July 17	Kent.....1	Wittersham (Mount Pleasant)....	3·60	120	1·80
	July 18	Westmorland...1	Temple Sowerby.....	2·24	60	2·24
	July 18	Oxford.....2	Woodstock (Sandford St. Martin)	3·50	105	2·00
	Aug. 23	Middlesex.....1	Sudbury (Station Approach).....	3·32	90	2·21
1948	July 28	Somerset.....4	Holford (Dyche).....	2·57	50	3·08
	July 28	Somerset.....4	Holford.....	2·55	60	2·55
	July 28	Somerset.....4	Kilve (Corner Close).....	2·33	60	2·33
	Aug. 2	Hampshire....9	Silchester House.....	2·00	35	3·43
	Aug. 8	Dorset.....4	Stalbridge (Grove Cottage).....	3·94	120	1·97
1949	July 15	Cambridge.....2	March.....	4·00	105	2·29
	July 17	Somerset.....3	Bridgwater.....	1·87	30	3·74

Table 6E. "Very Rare" Falls, 1936-56 (*continued*)

Year	Date	County and River Division	Station	Amount	Duration	Rate
				in.	min.	in./hr.
1949	Sept. 22	Devonshire, S...6	Cullompton	2.40	75	1.92
	Sept. 22	Radnor .....1	Presteigne (Evancoyd)	2.75	80	2.06
1950	May 21	Oxford .....4	Ipsden (Hailey)	1.63	20	4.89
1951	July 30	Hampshire .....1	Cowes Waterworks (Broadfields) .	2.43	45	3.24
	Sept. 7	Oxford .....3	Oxford (Radcliffe Met. Station) ..	2.62	86	1.83
1952	May 19	Devonshire, S...7	Honiton (Cotleigh House)	2.56	48	3.20
	May 19	Surrey .....5	Old Malden (Sports Ground)	2.30	63	2.19
	July 1	Cheshire .....1	Bredbury (Sewage Works)	1.73	25	4.15
	Aug. 6	Hertford .....2	Northwood (St. Mary's Avenue) .	2.80	70	2.40
	Aug. 6	Middlesex .....1	Rayners Lane (High Worpel)	2.74	105	1.57
	Aug. 6	Middlesex .....1	Harrow (Welldon Crescent)	2.80	120	1.40
	Aug. 6	Middlesex .....1	Wembley (Town Hall)	2.00	30	4.00
	Aug. 15	Dorset .....1	Sherborne (Seafeld Cottage)	2.29	60	2.29
	Aug. 15	Wiltshire .....1	Worton (The Grange)	2.27	45	3.03
1953	June 25	Essex .....6	Langham (Waterworks)	2.10	35	3.60
	June 26	Westmorland ...2	Windermere (Holebird)	2.84	55	3.10
	June 26	Lancashire, C...1	Nelson (Walton Lane)	1.72	15	6.88
	June 26	Dumfries .....5	Eskdalemuir Observatory	3.15	30	6.30
	June 26	Cheshire .....1	Langley (Trentabank Reservoir) ..	2.09	39	3.22
1954	May 13	Dorset .....3	Dorchester (Little Cheam)	2.32	60	2.32
	June 5	Huntingdon ....1	Wyton Airfield	3.15	105	1.80
	June 13	Hertford .....3	Hertford (Sewage Works)	1.98	36	3.30
	Aug. 21	Hampshire .....1	Freshwater (Pumping Station) ...	3.00	60	3.00
	Aug. 21	Hampshire .....1	Freshwater (West Wight School) .	2.61	60	2.61
	Oct. 18	Cumberland ....4	Ulpha	1.75	25	4.20
1955	June 6	Glamorgan ....6	Pontypridd (Coedpenmaen Road)	2.92	40	4.38
	July 18	Dorset .....3	Abbotsbury (West Street)	2.92	120	1.46
	July 18	Glamorgan ....4	Neath (Gnoll Reservoir)	3.32	120	1.66
	Aug. 13	Down .....5	Annaghanoon	3.44	80	2.58
	Aug. 13	Kent .....3	Sittingbourne	3.50	120	1.75
1956	June 11	Yorkshire, W.R. 9	Bradford W.W. (Stubden Reservoir)	2.45	75	1.96
	June 11	Yorkshire, W.R. 9	Bradford W.W. (Hewenden Res.)	6.09	105	3.48
	June 11	Inverness .....2	Loch Morlich (Foresters Lodge) .	3.07	105	1.75
	June 11	Inverness .....2	Loch Morlich (Glenmore Lodge) .	3.00	105	1.71
	July 18	Kent .....5	Horton Kirby (Court Lodge)	2.40	30	4.80
	July 18	Huntingdon ....1	Hemingford Grey	3.35	90	2.23
	July 18	Middlesex .....1	Harmondsworth (Road Res. Lab.)	3.87	114	2.04
	July 19	Cornwall .....2	Liskeard (Penmilder)	3.04	120	1.52
	Aug. 6	Sussex .....2	Arundel Castle	1.78	18	5.93
	Aug. 6	Kent .....3	Throwley (Newlands Farm)	2.30	45	3.07
	Aug. 25	Somerset .....1	Long Ashton (School House)	3.50	95	2.21

Table 6F. Mean number of days per annum on which specified amounts of rain fell in specified times during the 20 years 1937-56

County	Station	10 mm. (.4 in.) within				15 mm. (.6 in.) within			20 mm. (.8 in.) within		25 mm. (1.0 in.) within	
		5 min.	15 min.	30 min.	1 hr.	15 min.	30 min.	1 hr.	2 hr.	1 hr.	2 hr.	2 hr.
London.....2	St. Pancras (Camden Square).....	.15	.40	.65	1.15	.25	.35	.50	.85	.20	.30	.35
Surrey.....4	Croydon Airport.....	.05	.25	.45	1.35	.20	.25	.35	.80	.15	.25	.30
".....5	Kew Observatory.....	.10	.55	1.20	1.80	.20	.35	.55	.80	.15	.30	.35
Hampshire.....8	South Farnborough (R.A.E.).....	.05	.30	.70	1.50	.10	.15	.35	.90	.10	.10	.35
Suffolk.....5	Mildenhall Airfield.....	.05	.35	.65	1.40	.15	.30	.50	.85	.15	.30	.30
Wiltshire.....3	Boscombe Down Airfield ¹.....	.00	.21	.42	.74	.05	.11	.26	.53	.05	.05	.21
Devonshire, S....2	Plymouth (Mount Batten) ².....	.00	.22	.61	1.72	.00	.17	.28	1.17	.00	.17	.22
Lincolnshire.....3	Cranwell Airfield.....	.00	.45	.90	1.40	.10	.30	.50	1.05	.05	.35	.45
Cheshire.....1	Ringway (Manchester Airport) ³.....	.00	.25	.50	1.25	.00	.15	.30	.80	.05	.10	.20
Anglesey.....	Holyhead (Valley Airfield) ⁴.....	.00	.15	.25	.85	.00	.05	.05	.45	.00	.05	.05
Dumfriesshire...5	Eskdalemuir Observatory.....	.05	.25	.45	1.55	.10	.15	.40	1.45	.05	.10	.35
Renfrewshire...2	Renfrew (Glasgow Airport) ⁵.....	.00	.16	.26	.47	.05	.11	.16	.32	.05	.05	.11
Fifeshire.....3	Leuchars Airfield.....	.00	.15	.30	.85	.05	.05	.20	.55	.00	.05	.20
Aberdeenshire...2	Dyce (Aberdeen Airport) ⁶.....	.00	.10	.20	.60	.05	.15	.15	.50	.05	.10	.15
Shetland Islands	Lerwick Observatory.....	.00	.00	.00	.25	.00	.00	.00	.35	.00	.00	.00
Co. Antrim.....5	Aldergrove Airfield.....	.00	.10	.20	.60	.00	.10	.15	.25	.05	.05	.10
Mean of 16 stations.....		.03	.24	.48	1.09	.08	.17	.29	.73	.07	.14	.23
Mean calculated from Bilham formula.....		.12	.37	.73	1.46	.11	.22	.44	.89	.09	.18	.36

¹ Values for 19 years only. 1946 excluded.² Mount Wise, 1947.³ Barton, 1937-40.⁴ Salt Island, 1937-51.⁵ Abbotsinch, 1937-45.⁶ Aberdeen Observatory, 1937-47.

7 Heavy Falls on Rainfall Days in 1957

The daily measurements of rain which are set out in this Section are (a) falls amounting to $2\frac{1}{2}$ in. or more on the rainfall day, and (b) falls which amount to at least $7\frac{1}{2}$ per cent of the total recorded for the year 1957. A fall of $2\frac{1}{2}$ in. in a day at any station is sufficiently remarkable to be noticed, but it is likely to be of more frequent occurrence in areas which are normally wet, such as mountainous districts, than elsewhere. Hence the criterion of $7\frac{1}{2}$ per cent is introduced as well in order to admit certain falls of less than $2\frac{1}{2}$ in. in areas where the total rainfall of the year does not exceed 33.3 in.

A summary of the contents of this Section in each of the seventy volumes of *British Rainfall*, 1865–1934, was set out in an article in Part IV of *British Rainfall* 1934. The summary, revised to 1955, is now available as *Hydrological Memoranda* No. 2. The original article also included a list of the absolute highest daily rainfall and the absolute highest daily percentage recorded in each year. Corresponding figures for the years 1935 to 1957 are set out in Table 7A. A list of daily measurements since 1865 reaching or exceeding 7 in. is included as Table 7c.

Table 7A. Maximum Daily Fall and Maximum Percentage

Year	ABSOLUTE HIGHEST RAINFALL				ABSOLUTE HIGHEST PERCENTAGE				Year
	in.	Per cent	Station	Div.	Per cent	in.	Station	Div.	
1935	6.16	5.7	New Dungeon Ghyll..	X	12.2	4.83	Batheaston Reservoir	V	1935
1936	5.80	..	Glenshiel.....	XVIII	12.8	3.97	St. Albans (Oaklands)	III	1936
1937	5.76	18.2	Waltham-on-Wolds...	VII	18.2	5.76	Waltham-on-Wolds..	VII	1937
1938	7.14	5.2	Buttermere (Hassness)	X	15.4	5.61	Torquay (Abbey Park)	V	1938
1939	5.08	4.8	Blaenau Festiniog....	XI	11.8	4.01	Milford W.W.	VI	1939
1940	6.23	6.8	Rhondda (Llyn Fawr).	XI	14.7	4.18	Scarborough(Osgodby)	IX	1940
1941	5.10	9.2	Merthyr Tydfil.....	XI	18.8	4.54	Wickham Bishops...	IV	1941
1942	5.33	6.2	Grange-in-Borrowdale	X	12.0	3.55	Burnham (Chalbury).	V	1942
1943	4.44	4.6	Grange-in-Borrowdale	X	10.5	2.78	Torphins School House	XVII	1943
1944	5.20	3.2	Snowdon (Llydaw In.)	XI	14.0	4.45	Kilve (Harefield)...	V	1944
1945	4.85	5.4	Borrowdale (Moraine)	X	16.6	3.82	Boston (Grand Sluice)	VII	1945
1946	6.83	6.4	Princetown		12.6	3.48	Doxford Hall.....	X	1946
			(H.M. Prison).....	V	12.6	3.51	Chathill(Preston Twr.)	X	1946
1947	6.28	6.4	Glenquoich.....	XVIII	20.8	5.04	Wisley (Outfall Wks.)	II	1947
1948	6.21	17.0	Kelso (Floors).....	XII	17.0	6.21	Kelso (Floors).....	XII	1948
1949	6.04	3.5	Glenshiel (Kyle).....	XVIII	19.1	4.12	March.....	III	1949
1950	4.55	4.2	Coniston (Holywath) .	X	11.2	3.04	Fordham(LondonHse.)	III	1950
1951	4.53	4.0	Thirlmere (Dale Head)	X	9.9	3.34	Oxford (Radcliffe)...	III	1951
1952	9.00	10.7	Longstone Barrow ...	V	14.7	4.83	Boreham Wood.....	III	1952
1953	6.50	5.4	Snowdon (Cwm Dyli).	XI	12.0	3.25	Southampton		
							(Portswood).....	II	1953
1954	6.02	5.0	Loch Quoich						
			(Cruadhach).....	XVIII	11.9	3.56	Wyton Airfield.....	III	1954
1955	11.00	..	Martinstown						
			(The Chantry).....	V	22.5	9.50	Upwey (Friar Waddon)	V	1955
1956	6.50	13.0	Bradford (Hewenden	IX	16.1	4.30	Harmondsworth (Rd.	III	1956
			Reservoir)				Research Lab.)		
1957	(8.00)	13.0	Camelford (Roughtor	V	15.1	3.88	Hampton (Refuse Dis-	III	1957
			View)				posal Works)		

Table 7b. The Largest Daily Rainfalls in 1957

Date	Div.	Station	Amount	Per cent of Year	Total for Year
			in.	%	in.
June 8	V	Camelford (Roughtor View)	(8·00)	13·0	61·66
" 8	V	Camelford (Advent)	6·33	10·0	63·17
" 8	V	Delabole	(6·00)	12·4	48·42
Aug. 5	VII	Rodsley (Pumping Station)	5·97	15·0	39·79
" 10	XI	Llansadwrn (Gadlys Cottage)	5·38	9·7	55·34
Jan. 21	XI	Snowdon (Cwm Dyli)	5·34	3·5	153·93
" 21	XI	Snowdon (Llydaw Intake)	4·97	2·8	180·31
Dec. 19	XV	Glenleven (Kinlochleven)	4·80	4·9	98·19
Aug. 10	XI	Llansadwrn (Treffos)	4·75	8·6	55·51
Jan. 31	XI	Rhondda (Lluest Wen Reservoir)	4·72	4·4	106·69
Sept. 17	X	Gosforth (Netherwasdale)	4·69	6·7	70·50
Dec. 19	XV	Glenleven (Blackwater Dam, S.)	4·51	4·9	91·29
" 19	XVIII	Glenleven (Blackwater Dam, N.)	4·49	5·1	87·53
June 8	XI	Nantcwnlle (Bwlchyllan)	4·45	7·5	59·20

Table 7c. Heavy Falls on Rainfall Days, 1865 to 1957, reaching or exceeding 7 inches

County	Station	Fall	Date
		in.	
Dorset	Martinstown (The Chantry)	11·00	July 18, 1955
Somerset	Bruton (Sexey's School)	9·56	June 28, 1917
Dorset	Upwey (Friar Waddon)	9·50	July 18, 1955
Somerset	Cannington (Brymore House)	9·40	Aug. 18, 1924
Dorset	Upwey (Higher Well)	9·00	July 18, 1955
Devonshire	Longstone Barrow	9·00	Aug. 15, 1952
Somerset	Bruton (King's School)	8·48	June 28, 1917
Somerset	Aisholt (Timbercombe)	8·39	June 28, 1917
Dorset	Upwey (Elwell)	8·31	July 18, 1955
Glamorgan	Rhondda (Lluest Wen Reservoir)	8·31	Nov. 11, 1929
Inverness-shire	Loch Quoich (Kinlochquoich)	8·20	Oct. 11, 1916
Cumberland	Borrowdale (Seathwaite)	8·03	Nov. 12, 1897
Cornwall	Camelford (Roughtor View)	(8·00)	June 8, 1957
Dorset	Wynford House	7·90	July 18, 1955
Somerset	Bruton (Pitcombe Vicarage)	7·90	June 28, 1917
Merionethshire	Blaenau Festiniog (Oakeley Quarry)	7·77	June 28, 1928
Merionethshire	Blaenau Festiniog (Llechwedd Quarry) ..	7·75	June 28, 1928
Inverness-shire	Ben Nevis Observatory	7·74	Feb. 6, 1894
Devonshire	Challacombe	7·58	Aug. 15, 1952
Dorset	Dorchester (Queen's Avenue)	7·50	July 18, 1955
Somerset	Simonsbath (Honeymead)	7·35	Aug. 15, 1952
Dorset	Litton Cheney	7·32	July 18, 1955
Norfolk	Brundall (Blofield Road)	7·31	Aug. 26, 1912
Inverness-shire	Ben Nevis Observatory	7·29	Oct. 2, 1890
Caernarvonshire	Snowdon (Llyn Llydaw Copper Mine) ...	7·25	June 28, 1928
Brecknockshire	Trecastle (Blaenau-hydfer)	7·25	Nov. 3, 1931
Norfolk	Sproston (Council School)	7·20	Aug. 26, 1912
Dorset	Dorchester (Waterworks)	7·20	July 18, 1955
Dorset	Weymouth (Westham)	7·15	July 18, 1955
Cumberland	Buttermere (Hassness)	7·14	July 29, 1938
Inverness-shire	Croy (Dalcross Castle)	7·06	Sept. 25, 1915
Somerset	Cothelstone House	7·05	June 28, 1917
Cumberland	Borrowdale (Seathwaite)	7·00	Oct. 29, 1911

Dates of occurrence and measurements of the 14 largest falls of rain during 1957 are given in Table 7B. The table shows also the total amount for the year and the percentage of this total accounted for by the highest daily fall.

There were 310 falls which reached or exceeded 2½ in., and of these the corresponding numbers for other limits were: 3 in., 110; 4 in., 23; 5 in., 6; 6 in., 3; 7 in., 1; 8 in., 1. The outstanding day was January 31 with more than 10 per cent of these falls.

In the tables included in the following account of the heavy falls of the year, a daily fall which is the maximum fall for the year at the station is indicated by ordinary roman type; other falls are in *italics*.

CHRONICLE

The amounts in this section cover the 24 hours commencing at 9 a.m. G.M.T. on the day of entry.

January was generally mild and unsettled but there was a period of some ten days commencing about the 10th with rather cold anti-cyclonic weather. Heavy falls occurred in Wales and north-west England on the 4th and in western Scotland on the 19th. From the 20th to 23rd a very slow moving frontal system gave prolonged widespread rain over England and Wales, particularly the latter, where at Blaenau Festiniog (Llechwedd Quarry) 7·34 in. fell in 48 hours. Further heavy rain occurred in western Scotland on the 25th and 28th, and in south Wales and south-west England on the 31st. The map on page 50 shows the rainfall of the 31st in the south-west and includes all areas with a rainfall for the day exceeding 2 in.

January 4

<i>Cumberland</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Thirlmere (The Nook).....	2·50		2·5
Thirlmere (Dale Head Hall).....	2·78		3·0

<i>Westmorland</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Patterdale (Greenside Mine).....	2·73		2·8

<i>Brecknockshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Cardiff W.W. (Beacons Reservoir) ..	2·68		2·8
Cardiff W.W. (Storey Arms Field) ..	2·75		2·7

<i>Caernarvonshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Snowdon (Cwm Dyli)	3·10		2·0

January 8

<i>Westmorland</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Martindale (Howtown)	2·50		3·6

January 19

<i>Argyllshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Conaglen	2·50		2·6

<i>Inverness-shire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Caennacroc	2·74		3·4
Loch Arkaig (Achnacarry)	2·53		3·1
Loch Hourn (Kinlochourn)	2·68		2·3

<i>Ross and Cromarty</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Kinlochewe (Anacaun)	2·92		3·4
Loch Alsh (Nostie).....	2·63		3·2

January 20

<i>Merionethshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Llyn Morwynion	2·60		2·4
Manod Ffestiniog.....	3·75		3·4
Ffestiniog (Penmaesllan)	3·85		4·1
Blaenau Ffestiniog (County School) ..	3·76		3·3
Blaenau Festiniog (Llechwedd Quarry) ..	3·49		2·8
Blaenau Festiniog (Oakeley Quarry) ..	3·20		2·7

<i>Caernarvonshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Beddgelert (Primary School).....	2·61		2·4
Snowdon (Cwm Dyli)	3·26		2·1

<i>Argyllshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Glenorchy (Airidh Castlulaich).....	3·30		3·1

<i>Inverness-shire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Loch Arkaig (Achnacarry)	2·66		3·3

January 21

<i>Glamorgan</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Rhondda (Lluest Wen Filter).....	2·50		2·5
Rhondda (Lluest Wen Reservoir) ...	2·75		2·6

<i>Merionethshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Manod Ffestiniog.....	3·00		2·7
Ffestiniog (Penmaesllan)	2·96		3·2
Blaenau Ffestiniog (County School) ..	3·02		2·7
Blaenau Festiniog (Llechwedd Quarry) ..	3·85		3·1
Blaenau Festiniog (Oakeley Quarry) ..	2·82		2·3

<i>Caernarvonshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Capel Curig (Glyn Curig)	3.48	3.3	
Beddgelert (Primary School)	3.71	3.5	
Snowdon (Cwm Dyli)	5.34	3.5	
Snowdon (Llydaw Intake)	4.97	2.8	

<i>Inverness-shire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
River Nevis (Achareach)	2.50	2.6	

January 25

<i>Argyllshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Glenetive (Dalness)	2.80	2.3	
Loch Awe (Inverinan)	2.53	2.9	
Kilmelfort (Tralaig Blaran)	2.75	3.2	
Inveraray Castle Gardens	2.51	3.0	

January 28

<i>Argyllshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Ardgour	2.56	2.4	
Conaglen	2.97	3.1	

<i>Inverness-shire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Fort William (Glasdrum)	2.70	3.3	
Loch Hourn (Kinlochourn)	2.90	2.5	
Fort William (Teviot)	2.74	3.3	

January 31

<i>Devonshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
South Brent (Bala Brook)	3.14	3.6	
Ashburton (Hele House)	2.70	5.3	
Chagford (Metherall)	4.10	5.3	<i>new site</i>
Chagford (Thornworthy)	3.27	4.7	
Chagford (Teignworthy)	2.84	4.7	
Ashburton (West Street)	3.35	6.1	
Princetown (H.M. Prison)	3.43	3.9	

<i>Monmouthshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Abercarn (Nantydraenog Reservoir) ..	2.73	4.9	
Blackwood	2.66	5.0	
Newport W.W. (Pant-yr-eos Res.) ..	2.76	4.6	

<i>Glamorgan</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Rhondda W.W. (Llyn Fawr Res.) ...	3.69	3.5	
Ogmore Vale	2.65	2.6	
Pontypridd (Ty Gwyn Reservoir) ...	2.61	4.1	
Pontypridd (Boys' Grammar School) ..	2.50	3.9	
Pontypridd (Lanwood Reservoir) ...	2.54	3.8	
Pontypridd (Llanfabon)	2.98	4.7	
Treorchy (Pumping Station)	3.65	3.8	
Ferndale Park	3.40	4.1	
Treherbert Park	3.82	3.8	
Mountain Ash (Darranlas Reservoir) ..	3.42	4.9	
Rhondda (Castell Nos Reservoir) ...	3.90	4.1	
Rhondda (Lluest Wen Filter)	4.20	4.2	
Rhondda (Lluest Wen Reservoir) ...	4.72	4.4	
Treherbert (Tyn-y-waun)	3.95	3.9	

<i>Brecknockshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Cardiff W.W. (Beacons Reservoir) ..	2.54	2.7	
Cardiff W.W. (Storey Arms Field) ..	2.75	2.7	
Taf Fechan (Neuadd Reservoir) 11A ..	2.70	3.0	
Ebbw Vale W.W. (Llangynidr)	2.58	3.6	
Ebbw Vale W.W. (Carno W.)	2.80	4.2	
Swansea W.W. (Cray Reservoir)	2.87	3.0	
Ystradfellte Reservoir	2.59	3.1	
Aberdare (Nanthir Reservoir)	2.72	4.2	

February was mild and wet over England and Wales, but temperatures and rainfall were near normal over Scotland and Northern Ireland. Although the rainfall over parts of southern and eastern England was twice the normal, very few falls qualified for inclusion in the Chronicle.

February 6

<i>Devonshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Dartmoor (Fox Tor)	2.86	3.6	
Dartmoor (Shane Valley)	2.81	3.7	
Dartmoor (Swincombe)	2.99	4.2	

February 7

Chagford (Metherall)	<i>old site</i>	2.63	3.7
Chagford (Metherall)	<i>new site</i>	3.11	4.0
Chagford (Thornworthy)		2.68	3.8
Princetown (H.M. Prison)		2.57	2.9

<i>Westmorland</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Great Langdale (Long House)	2.96	2.8	

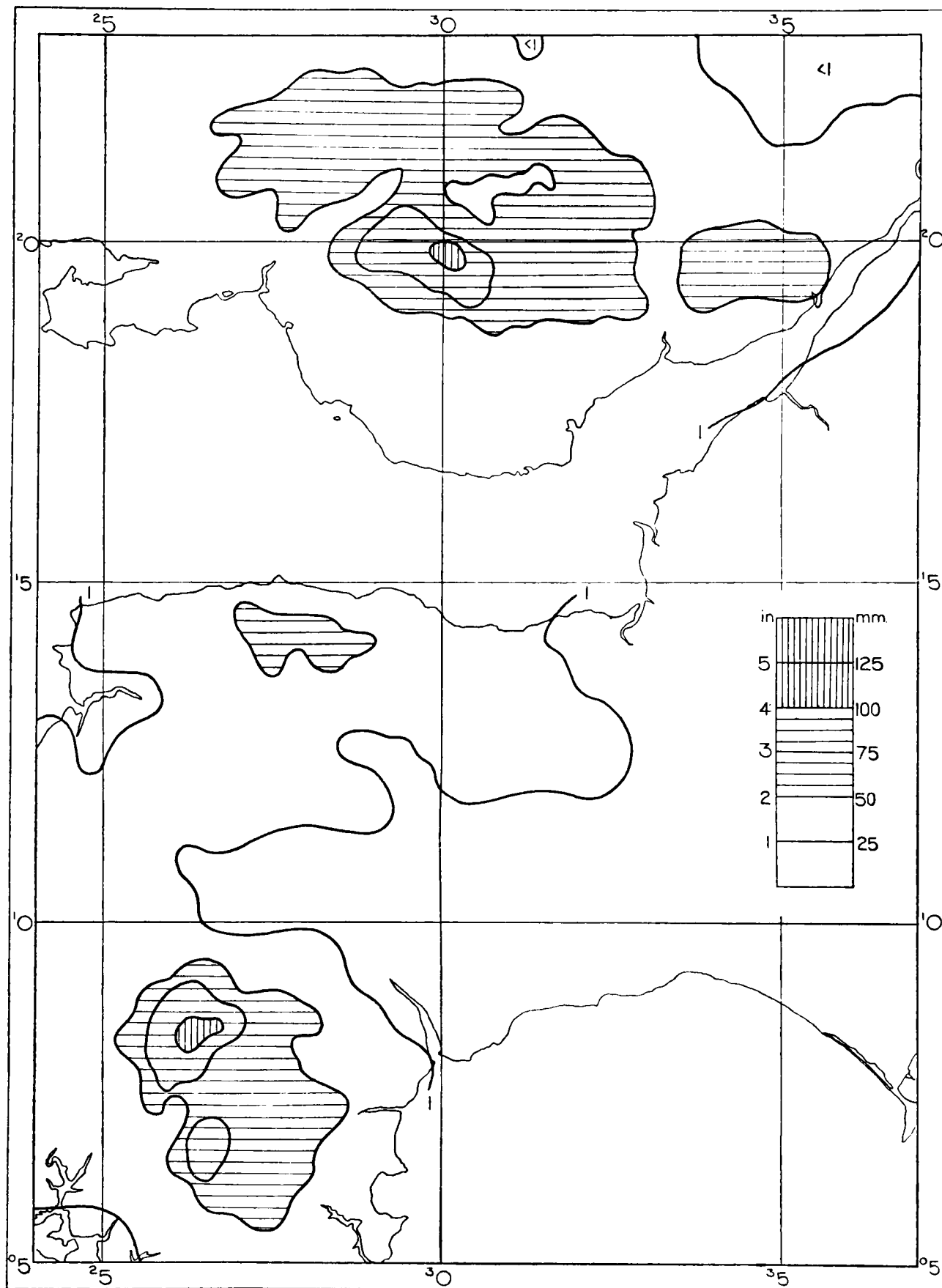
<i>Glamorgan</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Treherbert Park	2.61	2.6	
Mountain Ash (Darranlas Reservoir) ..	2.51	3.6	
Rhondda (Castell Nos Reservoir) ...	3.24	3.4	
Rhondda (Lluest Wen Filter)	2.80	2.8	
Rhondda (Lluest Wen Reservoir) ...	2.85	2.7	

March was dull and mild. Rainfall was above average in south-west England and western districts of Wales and Scotland. The few heavy falls entered for March occurred in west Wales and west Scotland between the 15th and 19th.

March 15

<i>Argyllshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Dalmally (Craig)	2.63	3.1	

<i>Inverness-shire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Loch Hourn (Kinlochourn)	2.50	2.1	



January 31

March 19

<i>Carmarthenshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Llyn-y-fan-Fach (Troed-y-Foel).....	2.59		3.1
<i>Brecknockshire</i>			
Swansea W.W. (Cray Reservoir)....	2.67		2.8
<i>Caernarvonshire</i>			
Snowdon (Llydaw Intake).....	3.12		1.7

April was dry over Great Britain and Northern Ireland, exceptionally so over England and Wales, and no falls reached the required limits for inclusion in the Chronicle. *May* was also dry and the only heavy falls entered for this month occurred in Northern Ireland on the 8th.

May 8

<i>Co. Down</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Silent Valley (Belfast Waterworks) ..	3.10		5.2
Annalong (Belfast Waterworks).....	4.40		7.8

June was warm and sunny. General rainfall over Scotland was near to the average, but well below average in England, Wales and Northern Ireland. There were few heavy falls: those on the 8th were confined to a small area in Cornwall (see Section 6). The rainfall measured on the morning of the 9th at Camelford (Roughtor View) was 7.09 in., but very little of the heavy hail which fell during the storms was retained by the gauge and it is conservatively estimated that the total fall for the 8th must have been 8.00 in. This estimated total is, therefore, printed in brackets in the Chronicle and in Tables 7A, 7B and 7C. The annual total shown for this station in the General Table includes a rainfall of 8.00 in. for the 8th. The gauge at Delabole overflowed on the 8th and the total of 6.00 in. quoted for this station in this Chronicle and Table 7B is also an estimate and is printed in brackets. Further heavy falls occurred in the same county on the 9th and in Dorset and Devonshire on the 18th.

June 8

<i>Cornwall</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Camelford (Advent).....	6.33		10.0
Camelford (Roughtor View).....	(8.00)		13.0
Delabole.....	(6.00)		12.4
Bossiney.....	2.69		7.1

<i>Cardiganshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Nantcwnlle (Bwlchyllan).....	4.45		7.5

June 9

<i>Cornwall</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Penryn Reservoir	3.70		8.4
St. Austell (Poltair Public Gardens) .	2.61		5.8

June 18

<i>Dorset</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Forde Abbey.....	2.78		7.6
<i>Devonshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Honiton (Cotleigh).....	2.69		6.3

July was unsettled with frequent thundery rain, and heavy falls were reported on 13 days during the month. The heavy falls on the 2nd and 3rd were mainly in southern districts and some of these, occurring in short periods, are discussed in Section 6. There were heavy falls in the Midlands on the 5th and again on the 6th, with some heavy falls in south-west Scotland on the latter date: on the 10th the heavy falls were in East Anglia and on the 11th and 12th in Wales. From the 18th to the 27th most of the heavy falls were in north Wales or in Scotland, although two were reported from the south Midlands on the 19th.

July 2

<i>Sussex</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Eastbourne (Wilmington Square) ...	2.43		8.7
Eastbourne (Coastguard Station)....	2.46		8.8
Eastbourne (Summerdown Road)...	2.43		8.9
Friston (Water Tower)	2.52		8.7
Friston	2.16		7.6
Jevington	2.50		8.0
Polegate (Sewage Works)	2.57		8.5

<i>Devonshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Plymouth (Mount Batten).....	2.66		6.9

July 3

<i>Kent</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Deal and Walmer Waterworks.....	1.81		7.6

Montgomeryshire
Pen-y-bont (Rhiwlas)..... in. or %
2·78 5·6

July 5

Staffordshire
Maer Hall Gardens 2·95 7·7

July 6

Staffordshire
Market Drayton (Loggerheads) 2·53 7·3
Whitmore (Pumping Station) 2·61 7·3
Burton Reservoir 1·82 7·5

Leicestershire
Netherseal (Chilcote) 3·36 12·7

Derbyshire
Church Gresley (Maurice Lea Park). 2·75 10·5
Repton (Greenshot) 1·84 7·8

Renfrewshire
Lochwinnoch (Kaim Dam) 2·65 3·4
Dougliehill Filters (Pt. Glasgow W.W.) 2·75 4·8

July 10

Cambridgeshire
Stretham (Engine House) 1·42 7·7
Ely (Roswell Pits) 1·68 7·8
Ely (Prickwillow) 1·97 8·5

July 11

Caernarvonshire
Beddgelert (Primary School) 2·58 2·4
Snowdon (Llydaw Intake) 3·10 1·7

July 12

Merionethshire
Llyn Morwynion 2·75 2·5

July 18

Kincardineshire
Stonehaven 2·31 7·9

July 19

Hertfordshire
Ardeley Bury 1·76 7·5
Meesden 3·15 12·6

Aberdeenshire
Bridge of Don (Braehead) 2·73 8·1

July 24

Inverness-shire
Loch Ailort (Inverailort) in. or %
3·20 3·6
Loch Morar (Rhubana) 2·70 3·6
Arisaig House 3·15 4·6

July 25

Merionethshire
Blaenau Festiniog (Llechwedd Quarry) 2·58 2·1

Caernarvonshire
Snowdon (Cwm Dyli) 2·50 1·6
Snowdon (Llydaw Intake) 2·71 1·5

Inverness-shire
Loch Nevis (Inverie Gardens) 2·65 3·2
Skye (Loch Harport, Carlost) 2·68 2·9
Arisaig House 2·84 4·1

July 26

Argyllshire
Brenchoillie 3·17 3·6

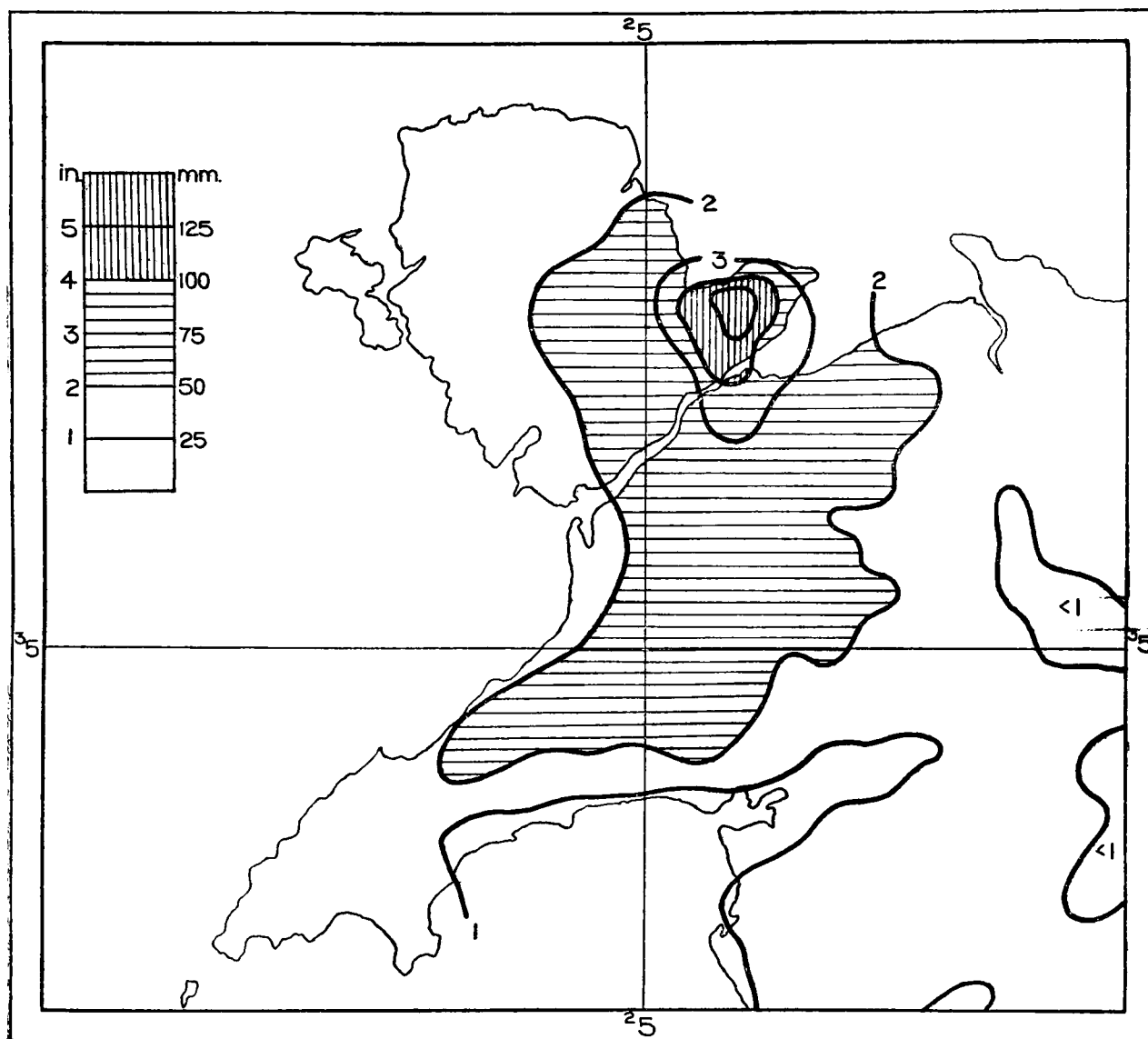
July 27

Argyllshire
Glenloch Crossing 2·85 2·8

August, like July, was unsettled, and there were frequent heavy rains and thunderstorms, particularly during the first half of the month. There were widespread heavy falls over the Midlands and Wales on the 5th, extending to Lincolnshire and Yorkshire on the 6th. In a number of places the day's rain fell in a single, intense storm (see Section 6). A depression moving north-eastwards over Wales and northern England on the 10th and 11th gave heavy falls in Anglesey, north Wales and in a few places in northern England. The fall of 5·38 in. at Llansadwrn (Gadlys Cottage) on the 10th is the heaviest fall in a rainfall day ever recorded in Anglesey. A map showing the rainfall in north-west Wales on the 10th appears on page 53. It includes all areas where the rainfall for the day exceeded 2 in.: in the remainder of Wales falls were less than one inch over low ground but were near to 2 in. over high ground in the south. Heavy falls occurred widely over the Midlands, East Anglia and south-east England on the

12th, in fact there are more entries for this date than for any other in the Chronicle. The heaviest falls were around the London area and the west Midlands. A rainfall map for the London area, where totals for the day

were only slightly less than 4 in., is shown on page 54. Heavy falls on the 15th were mainly in southern Scotland and north-east England and those on the 23rd and 24th in northern and central Scotland.



August 10

August 5

Herefordshire

Michaelchurch Escley (Llan Rosser). 2.52 6.3

Staffordshire

Shenstone (Little Hay)..... 2.08 7.7

Lichfield (Sandyfields)..... 2.45 9.3

Lichfield (Hanch Reservoir)..... 2.63 9.7

Derbyshire

Tutbury (Foston)..... 2.14 7.8

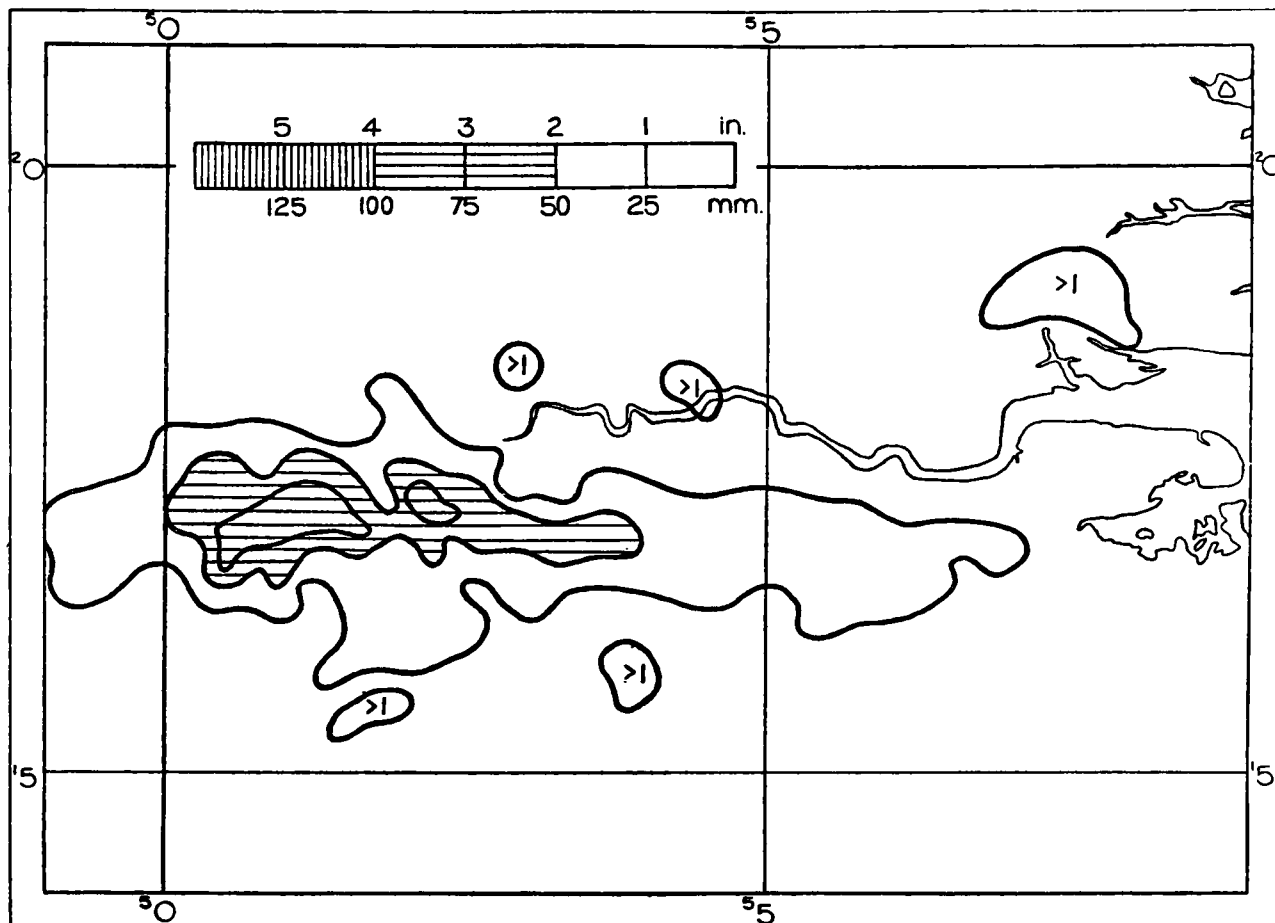
Rodsley (Pumping Station)..... 5.97 15.0

Brailsford (Shirley House)..... 2.70 8.0

Cardiganshire

Nantcwnlle (Bwlchyllan)..... 3.43 5.8

Birmingham W.W. (Abergwngu).... 3.48 3.9



August 12

<i>Radnorshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Birmingham W.W. (Tynant).....	2.90		3.7
<i>Montgomeryshire</i>			
Birmingham W.W. (Bod Talog).....	3.90		4.4
Llangurig (Manod).....	3.08		3.1
Llanidloes (Hillfield)	2.72		5.8

<i>Merionethshire</i>			
Barmouth.....	3.07		6.0

August 6

<i>Lincolnshire</i>			
Brigg (Scawby Hall).....	1.88		7.9
Normanby	2.20		8.2
West Butterwick (Croft House).....	2.42		8.9

<i>Yorkshire</i>			
Balby (Sewage Works).....	2.32		9.3

August 10

<i>Northumberland</i>			
Throckley Filters	2.43		9.8

<i>Caernarvonshire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Port Dinorwic (Vaynol).....	2.75		5.3
Bangor (Bryn Adda)	3.31		6.1
Bangor (Town Hall).....	3.90		7.7
Aber (University College Farm)	2.59		5.6
Beddgelert (Primary School).....	2.58		2.4

<i>Anglesey</i>			
Plas Cadnant.....	4.32		8.1
Llansadwrn (Treffos)	4.75		8.6
Llansadwrn (Gadlys Cottage).....	5.38		9.7

August 11

<i>Somerset</i>			
Winscombe (Mendip View)	2.95		7.9
Winscombe (Sidcot School)	2.65		7.7
Winscombe (Wintrath)	3.26		8.6

<i>Renfrewshire</i>			
Howwood (Tor Bracken)	2.56		4.4

August 12

<i>London</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Tooting Bec (Moring Road).....	2·27	10·3	
Wandsworth (Putney Heath Res.)...	2·96	12·4	
Streatham (Furzedown Rec. Ground)	2·30	10·4	
Southfields (Coronation Gardens)...	(2·95)	12·5	
Fulham (Bishops Park).....	1·78	8·0	

Surrey

Mitcham (London Road).....	2·61	11·5	
Wimbledon (Durnsford Road).....	2·00	8·9	
Worcester Park (Sewage Works)....	1·77	7·6	
West Molesey (Walton Works).....	1·83	8·4	
New Malden (Sewage Works).....	1·90	8·4	
New Malden (Acacia Grove).....	2·15	8·7	
Morden Hall.....	2·17	9·2	
Kingston-upon-Thames (Dickerage Road).....	2·37	10·2	
Merton (Joseph Hood Rec. Ground)	1·80	7·7	
Merton Park (Mostyn Road).....	2·08	8·4	
New Malden (High Drive).....	2·50	10·5	
Kingston (Canbury Gardens).....	3·04	12·3	
Raynes Park (Cottenham Park P.S.)	1·87	8·1	
New Malden (Kingston Vale).....	3·86	14·9	
Richmond (Terrace Gardens).....	1·98	8·3	
East Sheen (Cemetery).....	2·16	8·9	
Kew Observatory.....	2·21	9·5	
Kew (Botanic Gardens).....	1·82	7·8	
Weybridge (Oil Mills).....	1·71	7·7	
Chertsey.....	2·04	9·2	
Chertsey (Abbey Meads).....	2·63	10·6	
Egham (Waterworks).....	2·69	10·2	

Kent

Ash (Corking Farm).....	1·53	7·9	
Cobham (Jeskyns Court).....	1·74	7·6	
Bromley.....	2·43	10·3	
Beckenham (Croydon Road).....	2·43	10·9	
Penge (Recreation Ground).....	2·20	9·7	
Anerley (Oakfield Road).....	2·45	10·7	
Beckenham (Foxglove Road).....	2·42	10·5	
Bromley (Henville Road).....	2·66	11·2	

Berkshire

Eynsham.....	2·34	8·7	
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Middlesex

Littleton (Queen Mary Reservoir)...	3·22	13·6	
Hampton (Waterworks).....	2·40	10·2	
Kempton (Waterworks).....	3·62	14·9	
Hampton (Refuse Disposal Works) .	3·88	15·1	
Teddington (Stanley Road).....	3·46	13·9	
Hampton Hill (Lindsay Road).....	3·72	14·8	
Staines (Pumping Station).....	2·82	11·1	
Staines Reservoir (West Side).....	2·72	10·6	
Isleworth (Mogden Works).....	1·95	8·5	
Longford (Perry Oaks Disposal Wks.)	2·00	9·2	
Hounslow (Pownall Gardens).....	2·01	8·6	
Hounslow (Berkeley Avenue).....	2·37	10·2	
London Airport.....	1·78	8·1	

Oxfordshire

	<i>in.</i>	<i>or</i>	<i>%</i>
Oxford (Osney Lock).....	2·80	10·6	
Oxford (Richmond Road).....	2·57	9·6	
Adderbury.....	2·11	7·8	
Oxford (Radcliffe Met. Station).....	2·21	7·9	

Huntingdonshire

St. Ives (Tenterleas).....	1·85	8·5	
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Bedfordshire

Letchworth (New Sewage Works)...	1·60	7·6	
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Cambridgeshire

Cambridge (Woodlark Road).....	1·72	8·1	
Dullingham (Stetchworth Park)....	1·65	7·7	

Suffolk

Aldeburgh (Haven Sluice).....	1·83	7·7	
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Somerset

Bath (Isolation Hospital).....	2·50	8·9	
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Herefordshire

Monkland Cottage.....	2·05	7·8	
Downton Castle (Estate Office).....	3·55	10·5	

Shropshire

Bucknell Vicarage.....	2·61	7·5	
Ludlow (Castle Weir).....	2·57	8·0	
Craven Arms (Westhope Cottage)...	2·65	8·1	
Acton Scott (Wood Acton).....	2·58	7·2	
Church Stretton (Sewage Works)...	2·85	7·7	

Worcestershire

Worcester (Diglis Lock).....	2·10	8·6	
Worcester (Redhill).....	2·52	10·0	
Worcester (Waterworks).....	2·35	9·0	
Worcester (Samuel Southall School).	2·35	9·0	
Bromsgrove (Sewage Disposal Works)	2·07	8·0	
Bewdley (Elan Aqueduct).....	2·34	8·2	

Warwickshire

Shipston-on-Stour (Compton Scorpion).....	2·23	8·5	
Alcester (The Pleck).....	2·15	8·3	

August 13

Suffolk

Elmsett (Laurel Cottage).....	2·95	12·2	
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August 14

Nairnshire

Drynachan Lodge.....	3·66	8·9	
Ardclach (Glenferness).....	2·90	7·3	
Cawdor (Auchindoune).....	2·52	7·6	

<i>Inverness-shire</i>	<i>in.</i>	<i>or %</i>
Strathnairn (Farr).....	2.58	6.9
Loch Ness (Sronlairig Lodge)	3.76	6.4
Glen Urquhart House	2.75	6.4
Strathfarrar (Milton Cottage, Struy). ..	2.50	5.4
Loch Ness (Garthbeg).....	2.76	6.0

August 15

<i>Northumberland</i>	<i>in.</i>	<i>or %</i>
Uswayford	3.21	8.1
Cheviot Hills (Linhope).....	3.13	7.8

<i>Roxburghshire</i>	<i>in.</i>	<i>or %</i>
Cheviot Hills (Sourhope)	3.19	9.6

<i>Berwickshire</i>	<i>in.</i>	<i>or %</i>
Duns Castle.....	2.08	7.6
Longformacus (Whitchester)	2.42	8.1
Lammermuir Hills	3.12	8.7

<i>East Lothian</i>	<i>in.</i>	<i>or %</i>
Lammermuir Hills (West Hopes)....	2.61	7.4
Lammermuir Hills (Stobshiell Filter House)	2.26	8.5
Haddington (Neilson Park)	1.87	7.9
East Fortune Hospital.....	2.51	10.1

<i>Midlothian</i>	<i>in.</i>	<i>or %</i>
Ford (The Dowery House).....	2.11	8.1

August 23

<i>Ross and Cromarty</i>	<i>in.</i>	<i>or %</i>
Kinlochewe (Anacaun)	3.77	4.4

<i>Sutherland</i>	<i>in.</i>	<i>or %</i>
Loch Ailsh (Ben More Lodge).....	2.60	3.0
Loch Shin (Corrykinloch).....	2.88	3.1

August 24

<i>Renfrewshire</i>	<i>in.</i>	<i>or %</i>
Lochwinnoch (Kaim Dam).....	2.70	3.5

September was very wet over England, Wales and Northern Ireland but slightly drier than usual over Scotland. There were heavy falls in south Wales on the 6th and in south-west Wales on the 10th. A slow-moving trough gave heavy falls in north-west England on the 17th, and between the 23rd and 25th there were further heavy falls over Wales and the Midlands. The falls of the 25th brought to an end a period of heavy

rainfall in these districts, although very few of the daily falls qualify for inclusion in the Chronicle. Nevertheless there was flood water lying in 11 Welsh and Midland counties on the 25th. The Severn reached a peak level of 17 ft. above normal at Shrewsbury late on the 26th and 13 ft. above normal at Worcester early on the 27th. The Wye at Hereford was 14 ft. above normal on the afternoon of the 26th, the highest level since 1950.

September 6

<i>Glamorgan</i>	<i>in.</i>	<i>or %</i>
Rhondda W.W. (Llyn Fawr Res.)...	3.10	2.9
Pontycymmer	2.50	2.8
Ogmore Vale.....	2.75	2.7
Ferndale.....	2.50	3.0
Treherbert Park	3.37	3.3
Rhondda (Castell Nos Reservoir) ...	2.78	2.9
Rhondda (Lluest Wen Filter).....	2.52	2.5
Treherbert (Tyn-y-waun).....	2.90	2.8

<i>Brecknockshire</i>	<i>in.</i>	<i>or %</i>
Swansea W.W. (Nantyrwydd)	2.74	3.0
Swansea W.W. (Cray Reservoir)....	2.93	3.2

September 10

<i>Glamorgan</i>	<i>in.</i>	<i>or %</i>
Pontycymmer	2.50	2.8
Ogmore Vale.....	2.52	2.5

September 17

<i>Lancashire</i>	<i>in.</i>	<i>or %</i>
Hornby (The Snab)	2.62	5.4
Wyresdale (Abbeystead Reservoir) ..	3.83	6.3
Abbeystead Gardens	3.83	6.7
Damas Ghyll Reservoir.....	2.91	5.7

<i>Cumberland</i>	<i>in.</i>	<i>or %</i>
Gosforth (Netherwasdale).....	4.69	6.7
Ennerdale (Bleach Green).....	2.77	3.8
Millom (Lanthwaite)	3.50	6.3

September 23

<i>Glamorgan</i>	<i>in.</i>	<i>or %</i>
Treherbert Park	2.58	2.5

September 24

<i>Pembrokeshire</i>	<i>in.</i>	<i>or %</i>
Narberth (Blackpool).....	2.71	5.0

September 25

<i>Nottinghamshire</i>		
Kegworth (Kingston Hall)	2.13	8.1
<i>Derbyshire</i>		
Breaston (Woodland Avenue)	2.51	10.0

October was dry over most eastern, central and southern districts of Great Britain, but rather wet over Northern Ireland, north-west Wales and west Scotland. In all areas most of the rainfall occurred in the second half of the month, and the majority of the heavy falls were in Wales on the 27th, 28th and 29th. Merionethshire was affected by the heavy falls on each of these dates and the total rainfall recorded during the three days at Blaenau Festiniog (Llechwedd Quarry) was 10.82 in.

October 27

<i>Merionethshire</i>		
Llyn Morwynion	2.66	2.4
Manod Ffestiniog	2.74	2.5
Blaenau Ffestiniog (County School) ..	2.75	2.4
Blaenau Festiniog (Llechwedd Quarry) ..	2.97	2.4
Blaenau Festiniog (Oakeley Quarry) ..	(2.97)	(2.5)
<i>Ross and Cromarty</i>		
Loch Duich (Ratagan)	2.50	2.7

October 28

<i>Glamorgan</i>		
Rhondda W.W. (Llyn Fawr Res.) ...	2.97	2.8
Ogmore Vale	2.55	2.5
Rhondda (Lluest Wen Reservoir) ...	2.89	2.7

<i>Merionethshire</i>		
Llyn Morwynion	2.95	2.7
Manod Ffestiniog	3.56	3.2
Blaenau Ffestiniog (County School) ..	3.76	3.3
Blaenau Festiniog (Llechwedd Quarry) ..	3.71	3.0
Blaenau Festiniog (Oakeley Quarry) ..	3.40	2.8

<i>Caernarvonshire</i>		
Snowdon (Cwm Dyli)	2.75	1.8

October 29

<i>Glamorgan</i>		
Rhondda W.W. (Llyn Fawr Res.) ...	2.57	2.4
Ogmore Vale	2.70	2.7
Treherbert Park	2.54	2.5
Rhondda (Lluest Wen Filter)	2.50	2.5
Rhondda (Lluest Wen Reservoir) ...	2.92	2.7
Treherbert (Tyn-y-waun)	2.70	2.7

<i>Merionethshire</i>		
Llyn Morwynion	2.80	2.5
Manod Ffestiniog	3.68	3.3
Blaenau Ffestiniog (County School) ..	3.81	3.4
Blaenau Festiniog (Llechwedd Quarry) ..	4.14	3.3
Blaenau Festiniog (Oakeley Quarry) ..	(4.14)	(3.4)

<i>Caernarvonshire</i>		
Beddgelert (Primary School)	2.98	2.8
Snowdon (Cwm Dyli)	3.54	2.3

November was dry in most areas except south-east England and most of the heavy falls reported during the month occurred in this area on the 3rd.

November 2

<i>Brecknockshire</i>		
Ystradgynlais (Yniscedwyn House) ..	2.50	3.4

November 3

<i>Surrey</i>		
Puttenham (Berthorpe)	1.70	7.6

<i>Essex</i>		
Tilbury (Beaconsfield Road)	1.84	9.1
Grays (Connaught Avenue Depot) ..	1.85	9.5
Hatfield Peverel (Lower Farm)	1.55	8.0

December was dry over England and Wales, but rather wet over Scotland and Northern Ireland. A depression moving east-south-eastwards across Scotland on the 7th gave heavy falls over a wide area extending from the north of Scotland to central Wales. There were further heavy falls in Scotland, mainly in central and southern districts, on the 11th and reports of flooding were received from Campbelltown, Mull of Kintyre. A rather wider area of Scotland had heavy falls on the 19th and the rainfall map for a section of western Scotland appears on page 59: all areas with a rainfall of 2 in. are included in this map. A small depression moving east-south-eastwards over Northern England gave heavy falls, including some snow in Yorkshire and Lancashire on the 31st.

December 7

<i>Lancashire</i>	<i>in.</i>	<i>or</i>	<i>%</i>
Coniston (Holywath)	2·81		2·7
<i>Westmorland</i>			
Great Langdale (Long House)	2·57		2·5
Moor House (Dufton)	2·75		2·5
<i>Montgomeryshire</i>			
Gam (Abercannon Farm)	2·86		3·9
Hafren Lodge	3·00		4·1
<i>Merionethshire</i>			
Llyn Morwynion	2·75		2·5
Manod Ffestiniog	3·12		2·8
Ffestiniog (Penmaesllan)	2·62		2·8
Blaenau Ffestiniog (County School) ..	2·50		2·2
<i>Caernarvonshire</i>			
Snowdon (Cwm Dyli)	3·42		2·2
<i>Ross and Cromarty</i>			
Ullapool (Semardon)	2·62		4·4
Strath Kanaird (Power Station)	3·70		4·7

December 10

<i>Isle of Man</i>			
Sulby (Filter House)	2·98		6·2
<i>Fifeshire</i>			
Tayport Lighthouse	2·18		7·7
<i>Angus</i>			
Glamis Castle	2·82		8·6
Brechin (Strathcathro Hospital)	2·64		8·0
<i>Kincardineshire</i>			
Banchory (Invery)	2·50		6·2
Strachan (Bridge of Dye)	4·31		9·0
<i>Aberdeenshire</i>			
Glen Tamar (Mansion House)	2·89		6·8

December 11

<i>Perthshire</i>			
Comrie (Invergeldie Lodge)	2·50		4·4

December 19

<i>Dunbartonshire</i>			
Loch Sloy (Sloy Power Station)	3·72		3·5
Loch Sloy (Sloy Dam)	2·99		2·4

Argyllshire

	<i>in.</i>	<i>or</i>	<i>%</i>
Ardgour (Inversanda)	3·41		3·1
Ardgour	4·03		3·8
Conaglen	3·97		4·1
Glenleven (Blackwater Dam, S.)	4·51		4·9
Bridge of Orchy	2·97		2·9
Glenleven (Kinlochleven)	4·80		4·6

Perthshire

Glenogle	<i>old site</i>	2·94	3·3
Glenogle	<i>new site</i>	3·55	3·9
Strathyre		2·88	3·2
Stronach Dam		2·74	3·9
Lubreoch Dam		3·61	4·7

Inverness-shire

Cluanie Camp	<i>new gauge</i>	3·98	4·3
Ceannacroc		3·84	4·7
Loch Arkaig (Achnacarry)		2·91	3·6
Glen Leven (Blackwater Dam, N.) ..		4·49	5·1
Loch Hourn (Kinlochhourn)		3·68	3·1
Fort William (Glasdrum)		3·09	3·8
Fort William (Teviot)		3·40	4·1

Ross and Cromarty

Loch Droma		2·53	3·4
Loch Alsh (Nostie)		2·66	3·2

December 20*Argyllshire*

Glenetive (Dalness)		3·05	2·5
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December 21*Argyllshire*

Glenorchy (Airidh Castulvaich)		2·70	2·6
Bridge of Orchy		2·96	2·9

Inverness-shire

Cluanie Camp	<i>new gauge</i>	3·99	4·3
Loch Hourn (Kinlochhourn)		3·25	2·8
Loch Arkaig (Achnacarry)		4·24	5·2
River Nevis (Achareach)		2·92	3·0
Fort William (Teviot)		2·74	3·3
Fort William (Glasdrum)		2·58	3·2

Ross and Cromarty

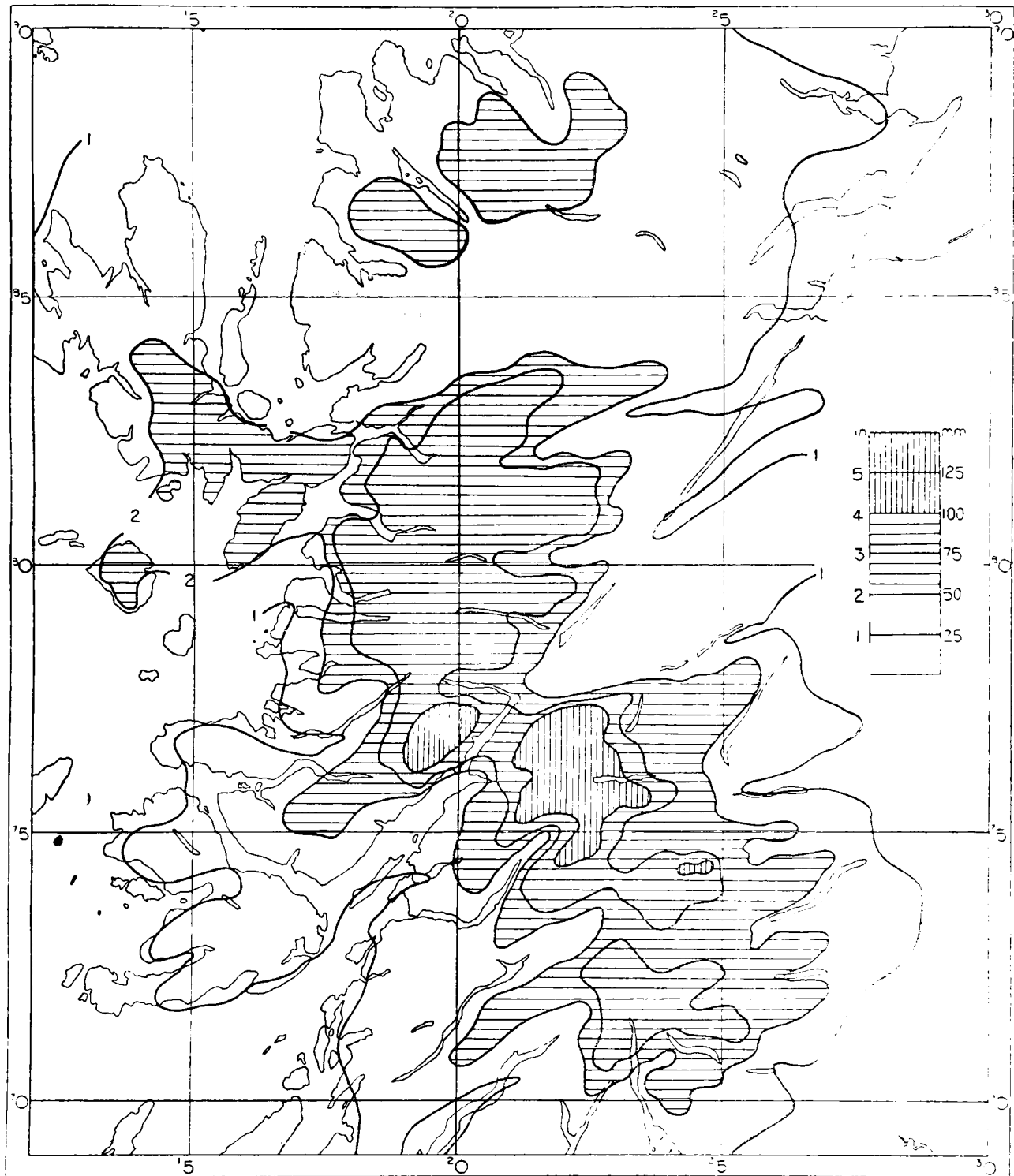
Kinlochewe (Anancaun)		3·09	3·6
Loch Alsh (Nostie)		2·74	3·3
Achnashellach		2·61	2·8

December 31*Lancashire*

Darwen (Hoddlesden)		2·91	4·4
Darwen (Daisy Green)		2·98	4·3
Darwen (Pickup Bank)		2·94	4·4

Yorkshire

Greenfield (Chew Mount)		2·60	4·0
Marsden Reservoir		2·57	4·8
Rishworth Lodge		2·51	4·7



December 19

8 Monthly Rainfall in 1957

Information on the rainfall of the months of 1957 over Great Britain and Northern Ireland is set out in this section in various forms:

(1) Table 8A gives general values of the monthly and annual rainfall over the constituent areas separately.

(2) Details are given of some of the largest and smallest monthly totals of rainfall reported during 1957.

(3) In Table 8C the monthly and annual totals of rainfall are set out for 334 stations,

distributed as evenly as possible over the country.

(4) Table 8D gives the monthly and annual falls expressed as percentages of the averages for 1881 to 1915. It is confined to 123 of the stations for which averages are available. The monthly totals, in inches, for stations in 8D are given in Table 8C. At the end of Table 8D general monthly percentage values are given for England, Wales, England and Wales, Scotland and Northern Ireland.

Table 8A. General Rainfall for 1957, computed from the average, 1881-1915, by applying the general percentage values given in Tables 8D and 10B to the General Average Values.

Months				England	Wales	Isle of Man	England and Wales	Scotland	Northern Ireland
				in.	in.	in.	in.	in.	in.
January	..	..	..	2.4	6.0	3.7	2.9	7.1	5.2
February	..	..	..	3.6	5.1	4.3	3.9	4.3	2.7
March	..	..	..	2.4	4.8	3.9	2.7	4.7	3.3
April	..	..	..	.4	.5	1.1	.4	2.1	1.5
May	..	..	..	1.8	2.7	3.5	1.9	2.2	2.1
June	..	..	..	1.9	2.2	1.9	1.9	2.8	2.1
July	..	..	..	3.8	6.0	3.2	4.1	5.7	4.9
August	..	..	..	3.8	5.5	3.2	4.0	5.7	4.7
September	..	..	..	4.4	8.3	6.3	4.9	3.9	5.1
October	..	..	..	2.6	5.8	5.9	3.0	5.3	4.2
November	..	..	..	2.4	3.0	4.0	2.5	2.9	1.5
December	..	..	..	3.0	4.4	4.1	3.2	6.7	5.4
Year	..	..	..	32.5	54.3	45.1	35.4	53.4	42.7

Table 8B. General Monthly and Annual Averages of Rainfall 1881-1915

Months				England	Wales	Isle of Man	England and Wales	Scotland	Northern Ireland
				in.	in.	in.	in.	in.	in.
January	..	..	..	2·69	4·72	3·40	2·99	4·90	3·33
February	..	..	..	2·34	3·94	3·25	2·57	4·18	2·98
March	..	..	..	2·47	3·82	3·03	2·67	4·05	3·05
April	..	..	..	1·98	2·96	2·47	2·12	2·99	2·58
May	..	..	..	2·19	2·95	2·82	2·30	3·01	2·70
June	..	..	..	2·33	3·05	2·54	2·44	2·83	2·86
July	..	..	..	2·75	3·60	3·22	2·87	3·78	3·41
August	..	..	..	3·11	4·71	4·01	3·35	4·51	4·16
September	..	..	..	2·37	3·51	3·22	2·54	4·00	3·01
October	..	..	..	3·69	5·63	4·64	3·97	4·90	3·61
November	..	..	..	3·19	5·25	4·73	3·49	5·29	3·81
December	..	..	..	3·56	6·00	4·97	3·92	5·88	4·16
Year	..	..	..	32·67	50·14	42·30	35·23	50·32	39·66

(5) A set of twelve maps showing the distribution of the percentage monthly values given in Table 8D is reproduced in this article. The corresponding percentage map for the whole year appears as a frontispiece to the volume.

A set of twelve maps showing the distribution of the actual rainfall in each month has been prepared on the scale of 16 miles to the inch, based on the values from some 2,500 stations. Copies of these maps on a reduced scale have been included in the corresponding numbers of the Monthly Weather Report.

In Table 8B the average values, taken from the Book of Normals, Table 21A (M.O.236, Section V), are given for comparison with the values for 1957 given in Table 8A. The values for Northern Ireland have been evaluated more recently in the same manner as was adopted previously for the other areas.

General Monthly Rainfall

The general monthly values shown in Table 8A have been computed by applying the percentage values given at the end of Table 8D to the average general values for the period 1881-1915. These computed values in inches have been subsequently slightly adjusted in order that the totals for the year should agree with the totals given in Table 10A, which are based on a more exact determination as explained in the text accompanying that table.

The wettest month of the year was September over England, Wales and the Isle of Man, but January was the wettest month over Scotland and December the wettest month over Northern Ireland. The driest month was April over the main sub-divisions of the United Kingdom, although November was an equally dry month in Northern Ireland.

The distribution of the rainfall during the year was very similar to that of 1956 in that there were contrasting wet and dry periods.

The period January to March was wet, the wettest since 1951 over England and Wales and the wettest since 1948 over Scotland and Northern Ireland. The next three months, April to June, were dry, exceptionally so over England and Wales, where the total rainfall for the period was the lowest since 1921, and the April rainfall, apart from that of 1922 and 1938, the lowest since 1893. Over Scotland and Northern Ireland April to June had the lowest rainfall since 1941. Over England and Wales, Scotland and Northern Ireland, the rainfall of each of the months July, August

and September was above average, except for the September rainfall over Scotland, but the total rainfall of the three months in all these sub-divisions of the United Kingdom was slightly less than that of the corresponding months of 1956. In the same sub-divisions the total rainfall of the last three months was well below average but not quite to the same extent as in the previous year. The November rainfall of .4 in. for Northern Ireland was the lowest since 1945 but has been lower on three occasions since 1921.

Extremes of Monthly Rainfall at Individual Stations

(a) *Monthly Totals.*—The largest monthly total reported in England was 24.50 in. in December at Sprinkling Tarn (Cumberland), but 27.00 was estimated as the fall at that station in January. In Wales, at Snowdon (Crib Goch), 34.20 in. was reported in July. The largest total for Scotland was 27.40 in. recorded in December at Loch Quoich (Cruadhach), Inverness-shire, and the largest for Northern Ireland 11.05 in. in September at Slieve Lamagan in the Mourne Mountains.

A number of stations in Somerset, Gloucestershire, Herefordshire, Worcestershire and Monmouthshire had no measurable rain in April, while the smallest monthly total in Wales, .04 in., occurred at St. Athan, Glamorgan, in the same month.

In Scotland the smallest monthly total of

.22 in. occurred in April at Loch Gowan (Luib) in Ross and Cromarty, whilst a total fall of .85 in. for November at Tynan Abbey in County Armagh was the lowest monthly fall reported from Northern Ireland.

(b) *Monthly percentage values.*—Areas with more than three times the average appear on the percentage map for September. Among the largest percentage values in Table 8D are 311 at Buxton (Terrace Slopes) in September and 293 in the same month at Shrewsbury (Monkmoor). On the other hand, areas with less than 5 per cent of the average are shown for April. During this month a number of stations reported no rain at all, including Malvern and Ross-on-Wye.

The Rainfall and Weather of the Individual Months

January.—Weather was mild and unsettled until the 11th, with widespread heavy rain on the 4th and 5th, more than 2 in. falling on these days in the Brecon Beacons. Colder weather followed until the 19th, with snow showers in places. Mild rainy weather returned on the 19th, with heavy rain in Scotland on this date and heavy rain in Wales between the 20th and 23rd (see Section 7). Colder weather on the 24th and 25th, with

snow in some northern and western districts on the 25th, was followed by mild stormy weather as vigorous disturbances moved eastwards across the British Isles. Rainfall amounts exceeded 3 in. in parts of Devonshire and Glamorgan on the 31st and there were severe gales in western districts.

February. A vigorous depression moving north-eastwards near the west coasts of Ireland

and Scotland gave widespread heavy rain on the 4th, with severe gales in Scotland; falls exceeded one inch in parts of Scotland. A trough of low pressure moving slowly eastwards on the 7th gave rain over a wide area, heavy in places in the south and west, where falls exceeded 2 in. in parts of Cumberland, Brecknockshire and Devonshire. Further heavy rain occurred over southern England on the 11th and there was flooding in the Thames Valley. Cold weather with snow and sleet showers spread to all areas by the 14th and persisted for several days. South-westerly winds brought rain, preceded by sleet, to southern England on the 21st but, moving very slowly, the milder weather did not reach north Scotland until the 25th. From then on weather was mostly fine and sunny apart from some light rain in the west.

March. The first few days were mainly dry apart from a little light snow in Scotland and Northern Ireland. Weather was cloudy from the 5th to 9th, with rain at times, particularly over south-west England and south Wales where, on the 9th, more than 2 in. fell in parts of Glamorgan. After a few warm days further rain spread eastwards across most districts on the 14th and 15th, falls exceeding 2 in. in Inverness-shire on the 15th. An influx of cooler, unstable air on the 20th brought showers to most areas, wintry over the hills in Scotland, with some thunderstorms. Showers and thunderstorms died out temporarily on the 23rd but were renewed on the 26th, and there were periods of more general rain in southern England on the 27th and 28th followed by dry and rather cool weather in all areas.

April was exceptionally dry over England and Wales and dry over Scotland and Northern Ireland. It was the driest April on record at Ross-on-Wye and Stonyhurst, where records began in 1859 and 1852 respectively. The first few days of the month were cloudy with occasional rain, heavy in places in western Scotland. Cool north-easterly winds gave

scattered showers, mainly in the east, from the 5th to 10th, but were followed by northerly winds bringing a more direct outbreak of arctic air, and snow showers were reported as far south as Kent and Devon. Winds backed to south-west on the 14th and there was light rain in many places during the next three days. A deep depression moving north-eastwards near northern Scotland on the 18th brought rain to most districts and severe gales to Scotland. The 19th and 20th were generally fine and warm, but there were a few showers in the north and these affected most districts on the 21st and 22nd. Cool north-easterly winds were established on the 25th and after a brief, fine, sunny spell in all areas there were showers in the Midlands and south-east England, with hail and gale force winds in places. The last few days of the month were dry.

May. The dry weather of late April persisted into May but widespread rain on the 7th and 8th brought the dry spell to an end. There was very heavy rain in the west, particularly in Northern Ireland, where more than 4 in. fell in Co. Down on the 8th. Rain persisted in some eastern districts until the 9th. A depression moving north-eastwards across the country on the 11th gave outbreaks of thundery rain and local thunderstorms, and there were similar outbreaks during the next few days. Another depression, off south-west England on the 17th, moved into the Irish Sea and later to north-east Scotland giving widespread rain, heavy in places, near the centre of the depression. After the passage of another rain belt across the country on the 20th, high pressure was established over the whole country and mainly dry weather followed until the end of the month.

June. There was some rain in Scotland on the first days of the month and thunderstorms over a wide area of south-east England on the 3rd. These storms were followed by fairly general rain over the British Isles on the 4th as a depression moved east across Scotland. There were showers or outbreaks of rain in

most areas during the next few days, with some unusually heavy rain in Cornwall on the 8th. (See Sections 6 and 7.) An anti-cyclone had developed over southern England by the 12th and several warm sunny days followed, interrupted by thunderstorms in southern England on the 18th. (See Section 6.) A cool northerly airstream brought thunderstorms and thundery rain to many areas on the 22nd, but warmer air returned northwards over the British Isles on the 25th and the last few days of the month were hot in many districts.

July. A shallow depression moving northwards from the Bay of Biscay brought widespread thunderstorms to southern England during the early hours of the 3rd and there were further thunderstorms, some severe, in England and Wales on the 4th and 6th. A number of these storms are discussed in Section 6. Storms again occurred over southern England on the 7th, and a depression moving eastwards into the British Isles on the 11th gave more general thundery rain and some thunderstorms, falls exceeding 3 in. in parts of Caernarvonshire. Thunderstorms were frequent between the 14th and 21st and affected a wide area extending from the Midlands and central Wales to Aberdeenshire. From the 22nd to 25th warm air spread slowly north-eastwards over the British Isles, bringing light rain to many places. In Scotland the rain was heavy and more persistent, and with further rain associated with a cold front moving in from the west the total rainfall of the 24th and 25th was 5.99 in. at Arisaig House in Inverness-shire. Showery weather gave way to generally fine days on the 30th and 31st, the first for nearly four weeks.

August. The settled weather of late July did not persist for long in August, for from the 4th to 6th there were thunderstorms and outbreaks of heavy rain over England and Wales, some of the storms being of exceptional severity. (See Sections 6 and 7.) Further

heavy rain and thunderstorms occurred in Wales, north-west England and south-west Scotland on the 10th and in south-east England on the 12th. A map of the rainfall around London on the 12th appears on p. 54. A depression moving eastwards across southern Scotland on the 14th brought rain to many parts of the British Isles on the 14th and 15th, with heavy rain in Scotland and north-east England. A succession of fronts crossed the British Isles during the next few days, but rainfall amounts were slight, except in the north. A further depression, of unusual intensity, developed to the west of Ireland on the 22nd and moved towards north-west Scotland on the 23rd, giving rain in many areas, with falls of more than 3 in. in Ross and Cromarty. Rather cool weather with showers followed as the depression moved away eastwards, but the month ended with fine anticyclonic weather.

September. Light rain, but with some sunny periods, occurred during the first few days of the month. A deep depression brought heavier rain to many areas on the 6th, falls exceeding 3 in. in Glamorgan. Further widespread rain fell on the 9th and 10th and falls of 2 in. and more were recorded in parts of south-west England and south Wales. A slow-moving depression was established over Scandinavia on the 12th, and frequent showers with scattered thunderstorms and strong north-westerly winds developed over the British Isles. A warm front moved very slowly north-eastwards into the country and small waves moving south-eastwards along it brought heavy rain to north-west England on the 17th, with falls of more than 4 in. in Cumberland. The 18th and 19th were fine in the south but dull weather with periods of rain, heavy and thundery at times, prevailed in all areas from the 20th to 25th. There were falls of more than 2 in. in parts of Wales on the 23rd and 24th and in the north Midlands on the 25th. The last few days of the month were rather cool and showery.

October. There was light rain over Scotland and Northern Ireland early in the month and again during the second week, but there was little rain further south during the first half of the month, and absolute droughts were reported by a number of stations in Lancashire, the Midlands and southern England. (See Section 3.) Unsettled weather began on the 16th, when a cold front moved eastward across the country. A vigorous depression followed on the 17th and 18th and was accompanied by rain over a large area. Brighter colder weather with showers developed on the 20th and persisted until the 22nd. Weather became very unsettled again on the 23rd and continued so until the 29th. There was very heavy rain from the 26th to 29th, particularly in Wales and north-west England, as secondary depressions moved eastwards across southern districts. At Blaenau Festiniog the rainfall for the four days exceed 12 in. Widespread gales and rain developed on the last day of the month as a deep depression moved into north Scotland.

November. Rather cool showery weather predominated during the early part of the month, with periods of more general rain over Wales and parts of central and southern England, as small secondary depressions crossed these areas on the 3rd and 4th. Severe gales developed over parts of the Midlands, East Anglia and south-east England in association with the second of these depressions, and gusts of 90 knots were reported. Another secondary depression moved northwards across the Irish Sea on the 5th with a renewal of gales and further widespread rain which persisted in many places into the 6th. From the 7th to the 10th weather was fine and cold, but dull milder weather then set in and persisted until the 19th, although the last two days were dry in the east. Winds veered to the north on the 22nd as an anticyclone developed to the west of Ireland, and cold bright weather spread to all areas. By the 24th the anticyclone had moved to the Channel

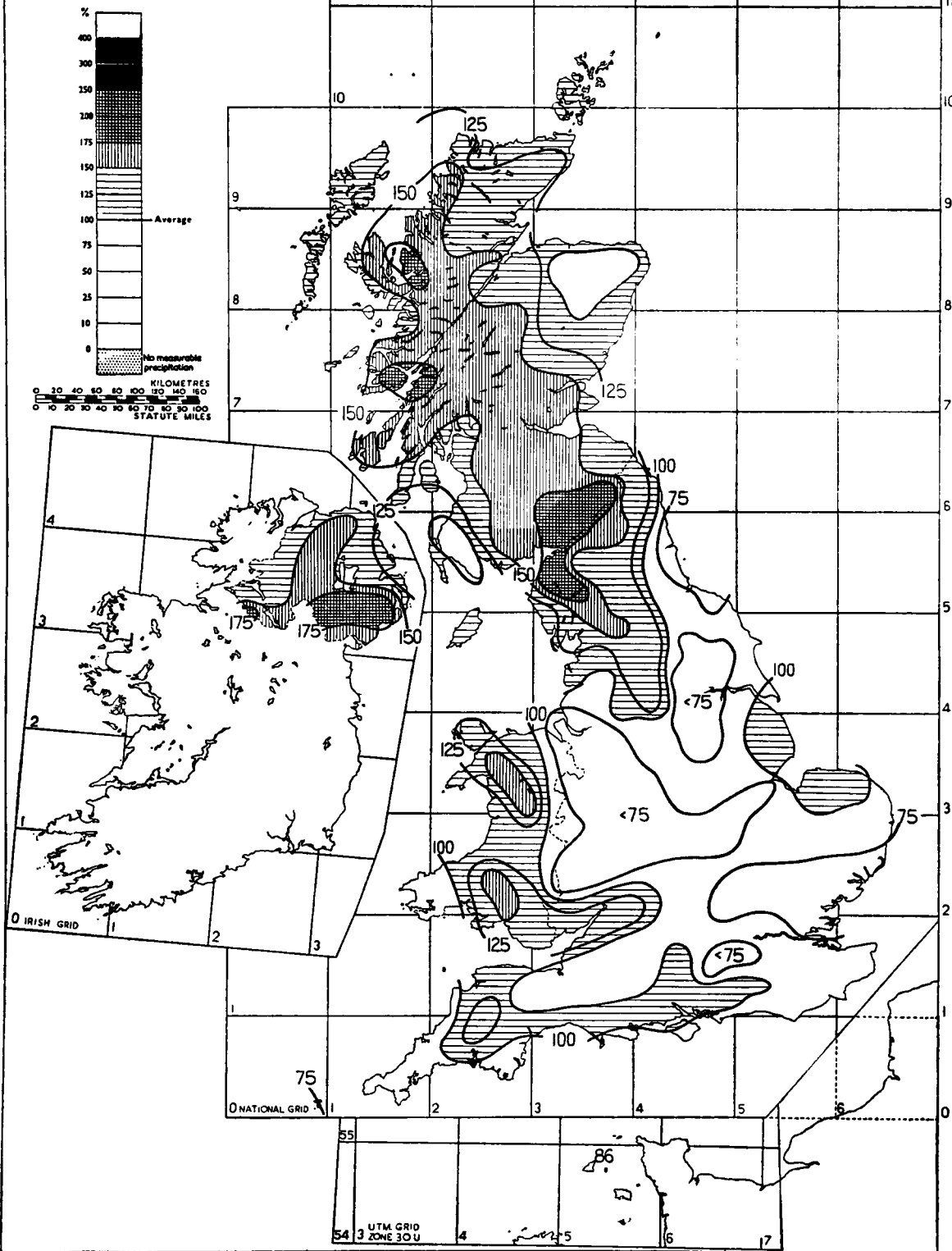
and remained there almost stationary until the end of the month, with dull dry weather over much of England and Wales but with slight rain and drizzle further north.

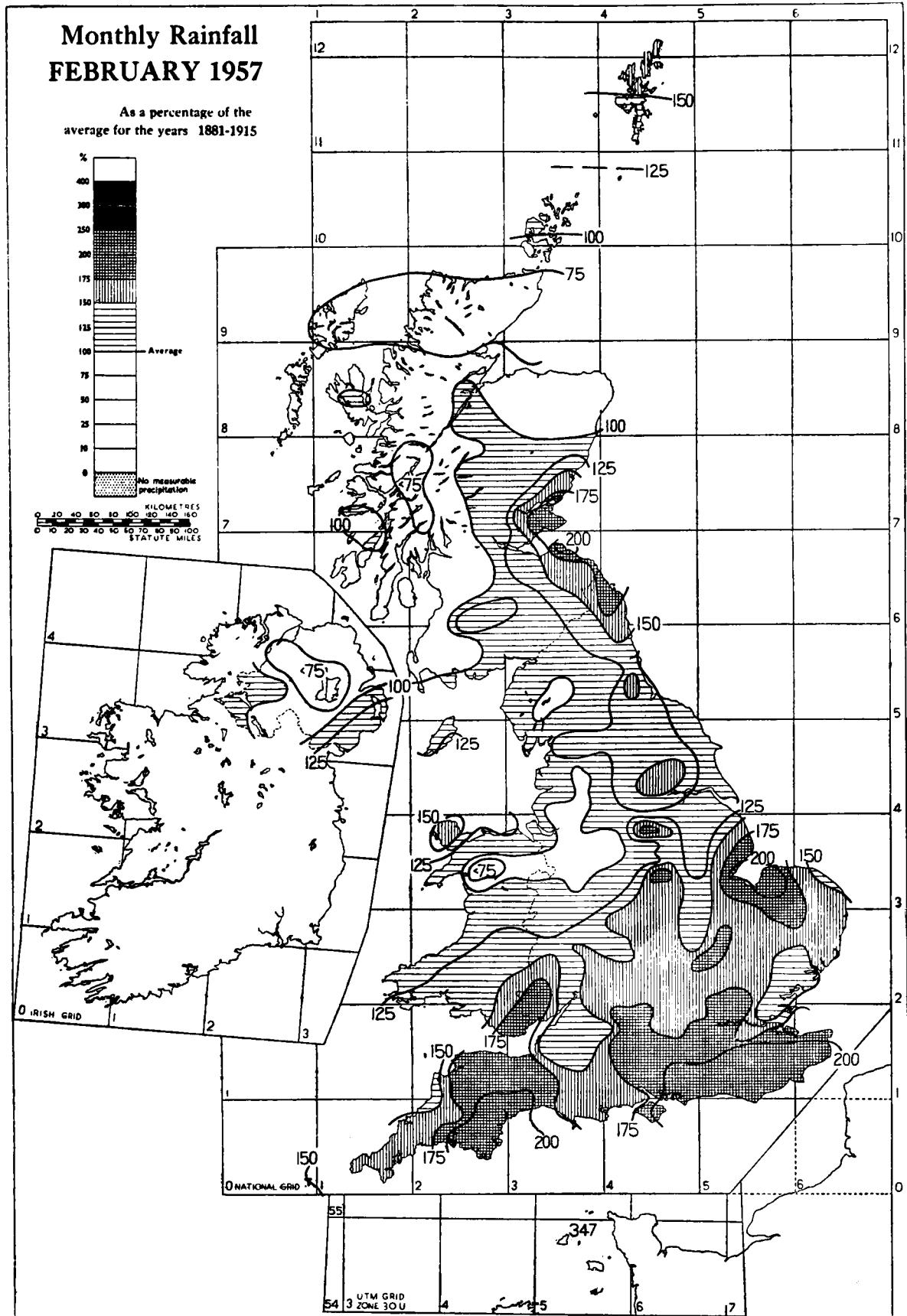
December. The weather pattern of late November continued into December, until about the 6th. Deepening depressions moved eastwards across Scotland on the 7th and 8th. Rain and gales spread to most areas with some heavy rain in western districts, falls exceeding 3 in. in parts of north Wales on the 7th. Northerly winds in the rear of these depressions brought scattered snow showers to Scotland and northern England, but a depression advancing from the Atlantic soon brought widespread rain on the 10th, preceded by some snow in northern districts. Heavy falls of rain were recorded in Scotland, amounts exceeding 4 in. in Kincardineshire. From the 11th to 13th winds backed from south-east to north-east and weather was dull with rain at times. A ridge of high pressure moving slowly south-eastwards over the British Isles brought about a gradual improvement and weather was mainly fine and dry from the 15th to 17th. Weather became cloudy and mild as south-westerly winds were established, and there was frequent rain until the 22nd, mostly slight but heavy in north Scotland on the 19th when falls exceeded 4 in. in a number of places. A deep depression gave heavy rain and some thunderstorms in south-west England on the 23rd before it moved away south-eastwards, but further north and east weather remained dry. Rainy weather with strong south-westerly winds reached the north-west late on the 24th and mild changeable weather subsequently spread to all areas and persisted until late in the month. Colder weather spread into the northern half of the country on the 29th and a small depression moving quickly eastwards gave heavy rain and snow in the north of England on the 31st, falls of more than 2½ in. being recorded in Lancashire and Yorkshire.

In the following pages maps are given showing the distribution of the rainfall each month expressed as percentage of average. Further details are given in the *Monthly Weather Report*, which also includes maps of the distribution of rainfall amounts and of mean pressure and the movements of the centres of the main depressions.

Monthly Rainfall JANUARY 1957

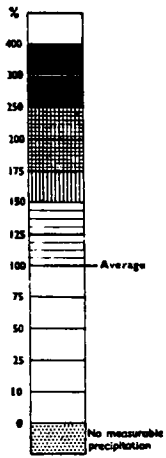
As a percentage of the
average for the years 1881-1915



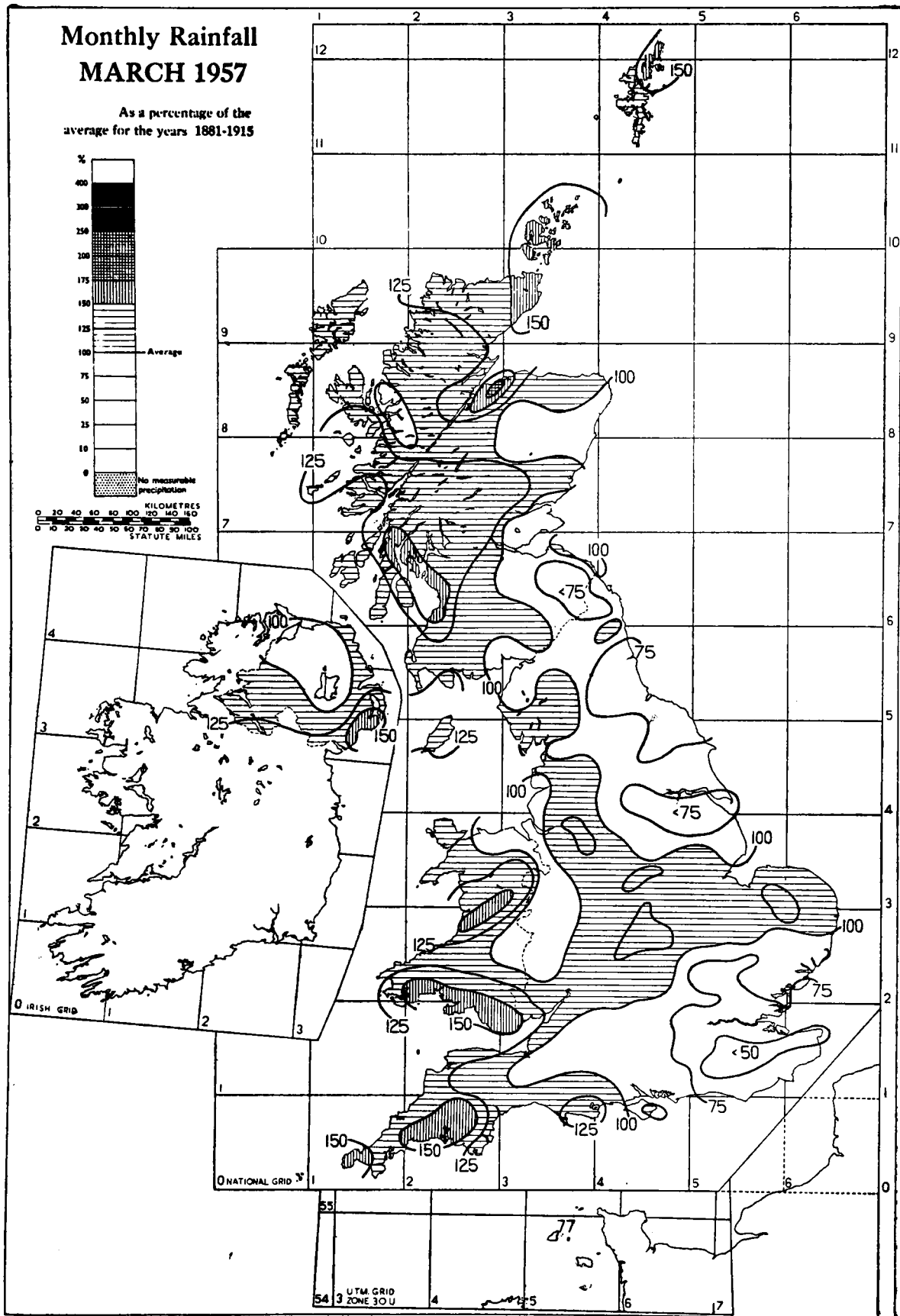


Monthly Rainfall MARCH 1957

As a percentage of the
average for the years 1881-1915

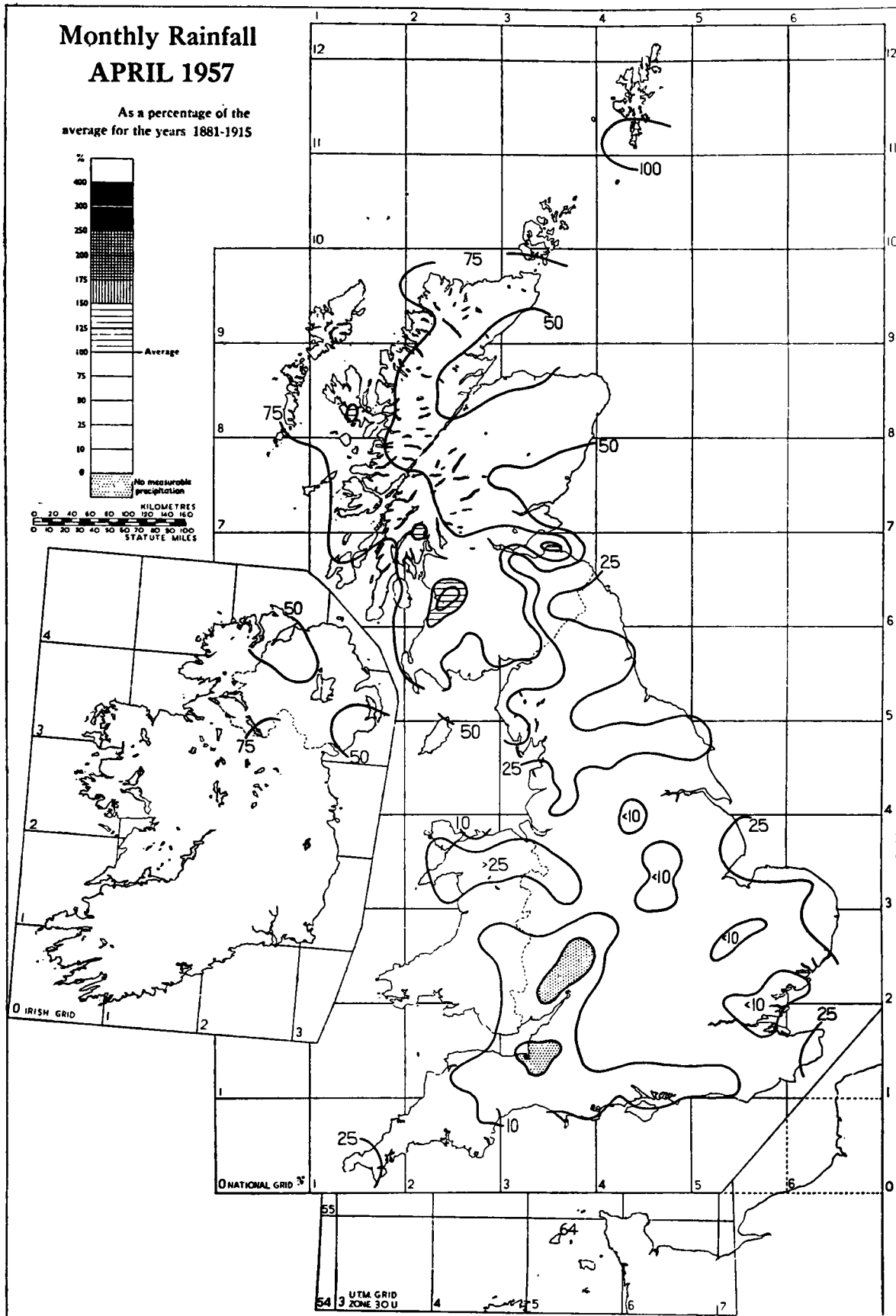
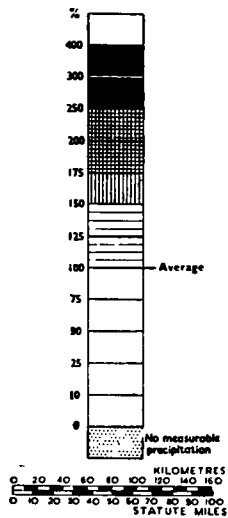


0 20 40 60 80 100 120 140 160
KILOMETRES
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES



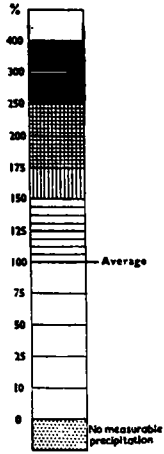
Monthly Rainfall APRIL 1957

As a percentage of the
average for the years 1881-1915

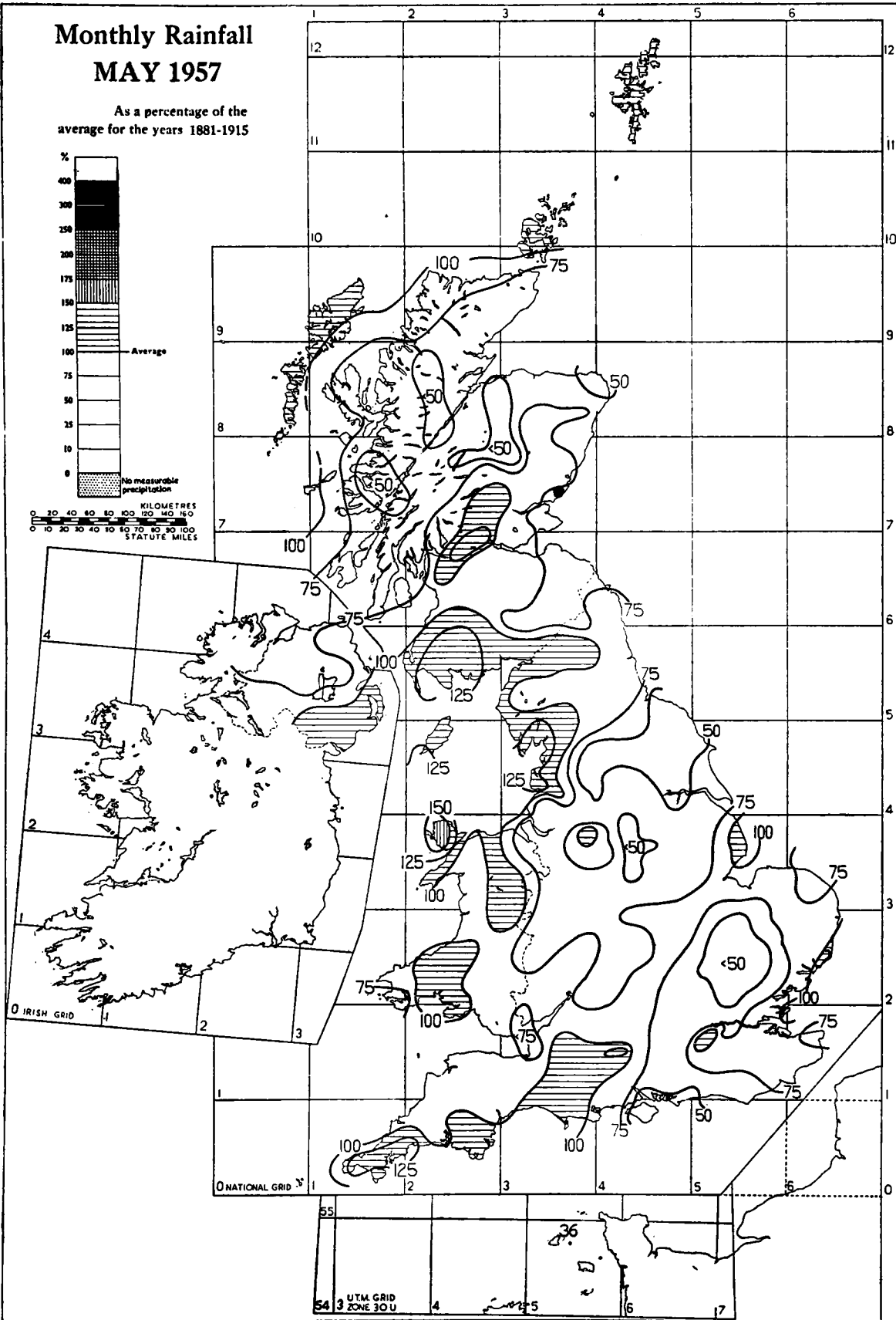


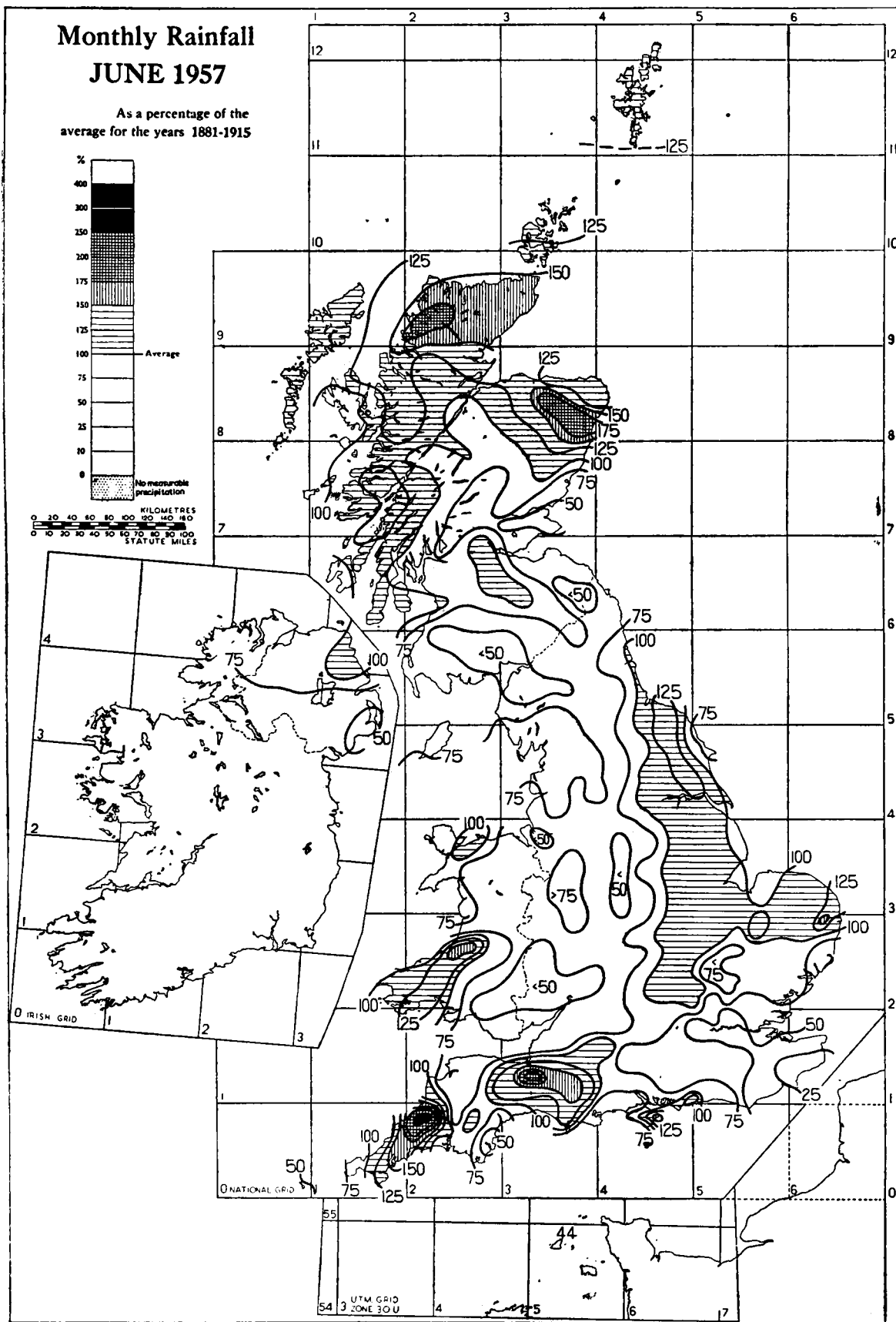
Monthly Rainfall MAY 1957

As a percentage of the
average for the years 1881-1915



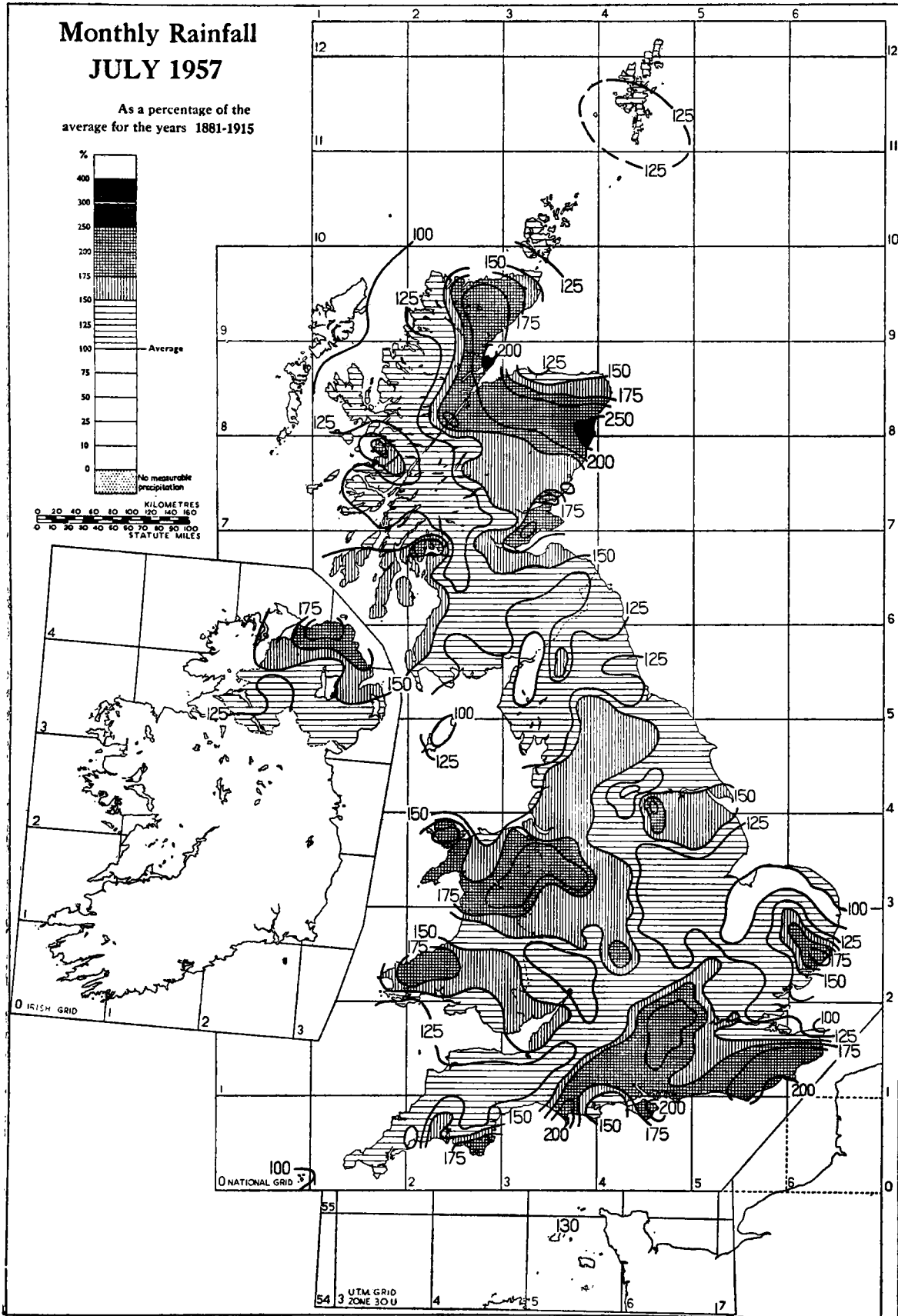
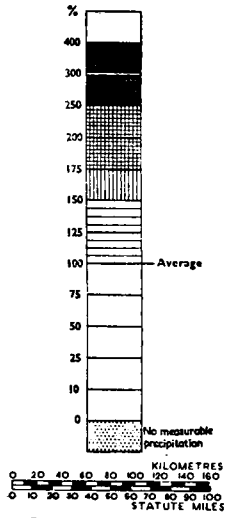
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KILOMETRES
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES





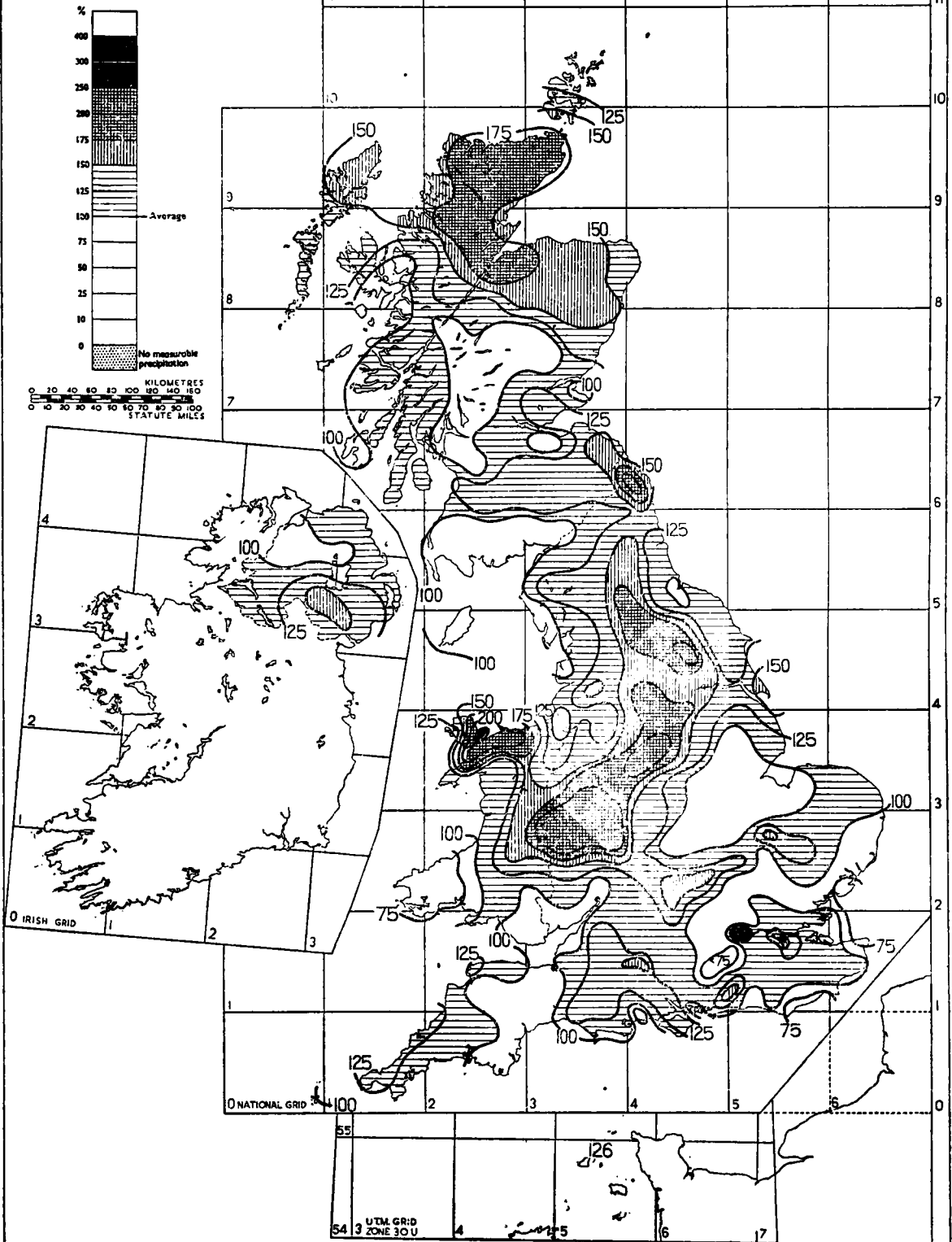
Monthly Rainfall JULY 1957

As a percentage of the
average for the years 1881-1915



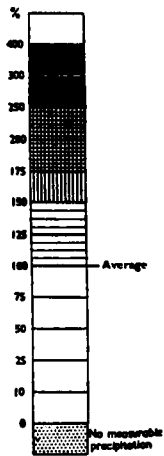
Monthly Rainfall AUGUST 1957

As a percentage of the
average for the years 1881-1915

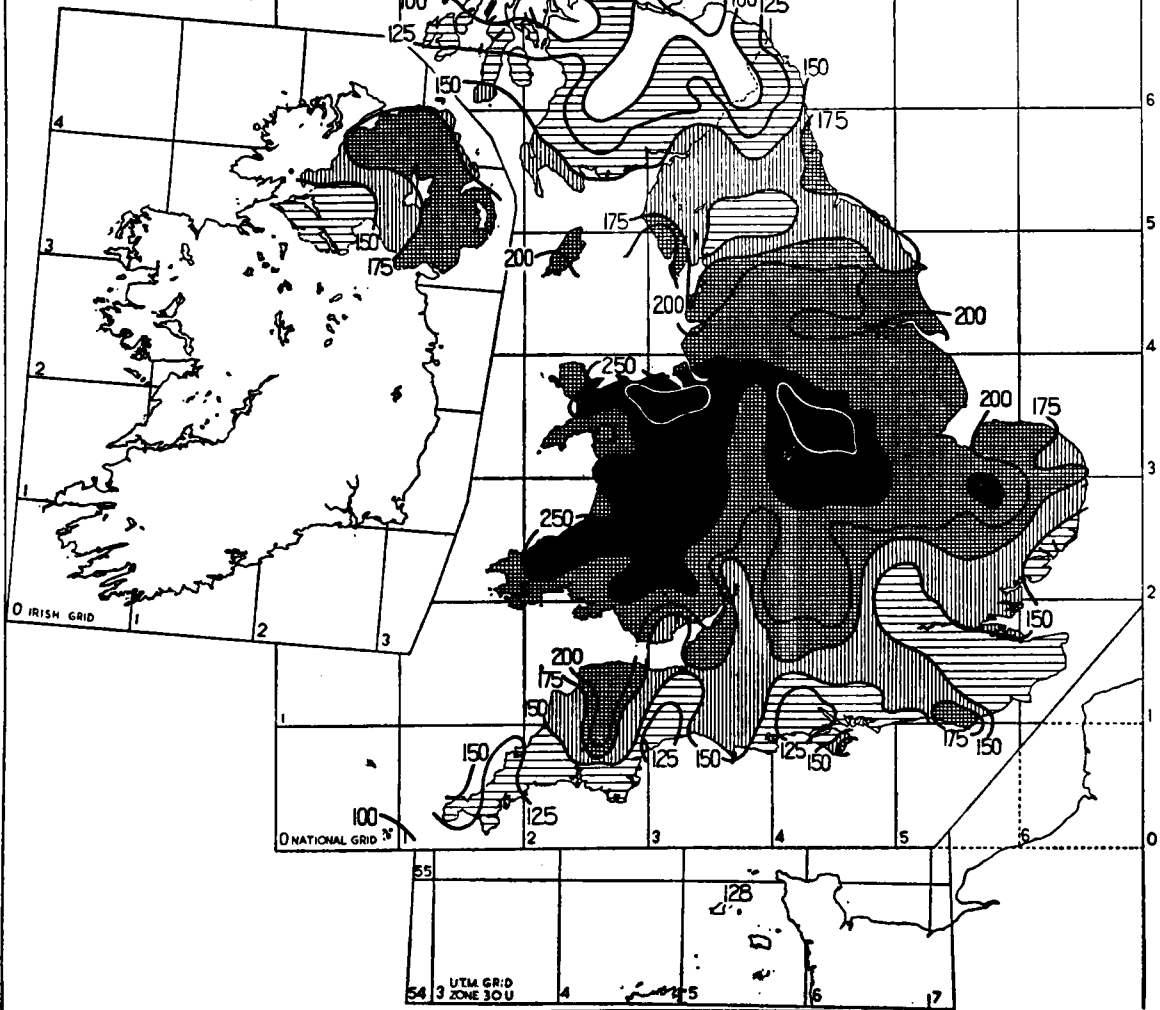


Monthly Rainfall SEPTEMBER 1957

As a percentage of the
average for the years 1881-1915

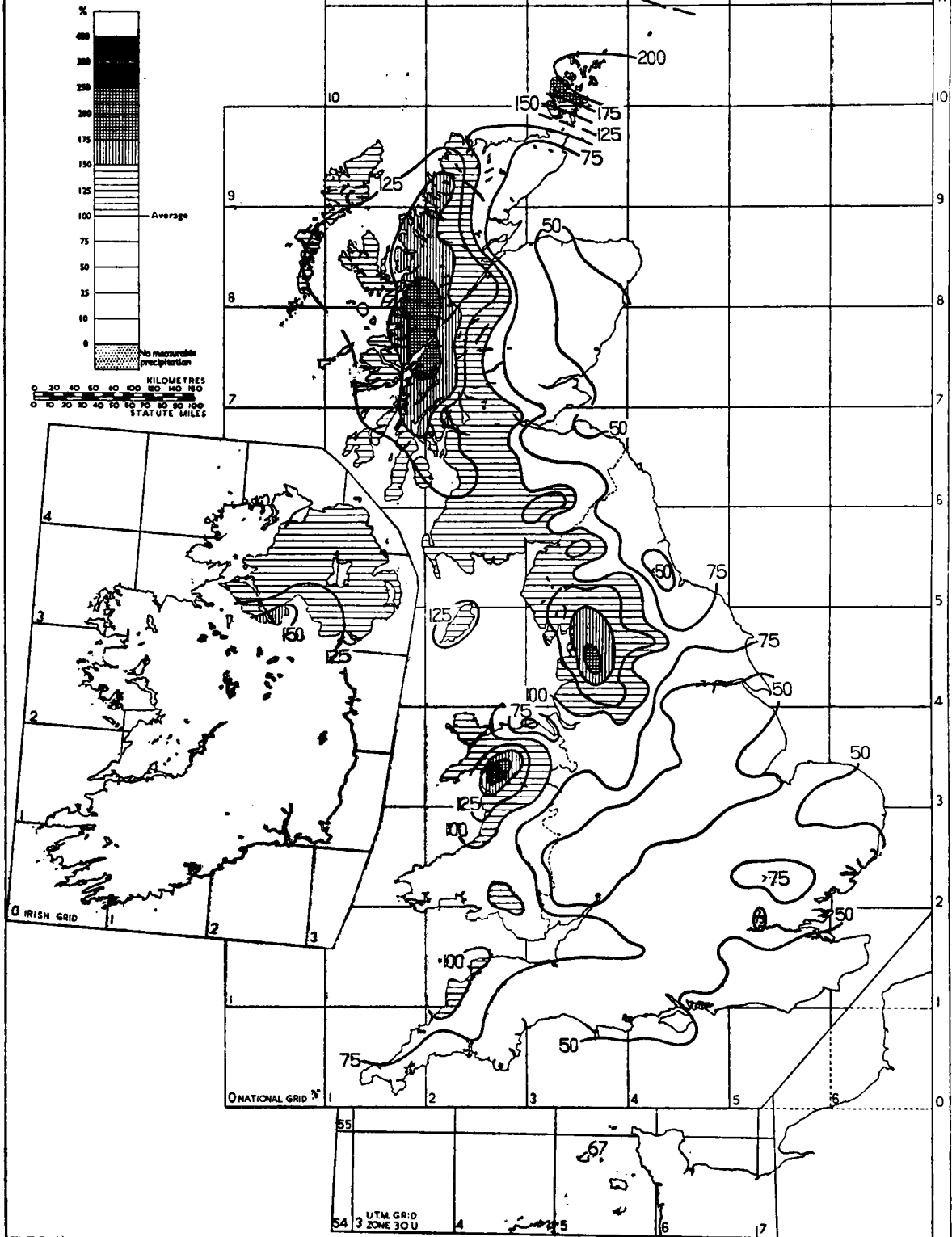


0 20 40 60 80 100 120 140 160 180 200
KILOMETRES
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES



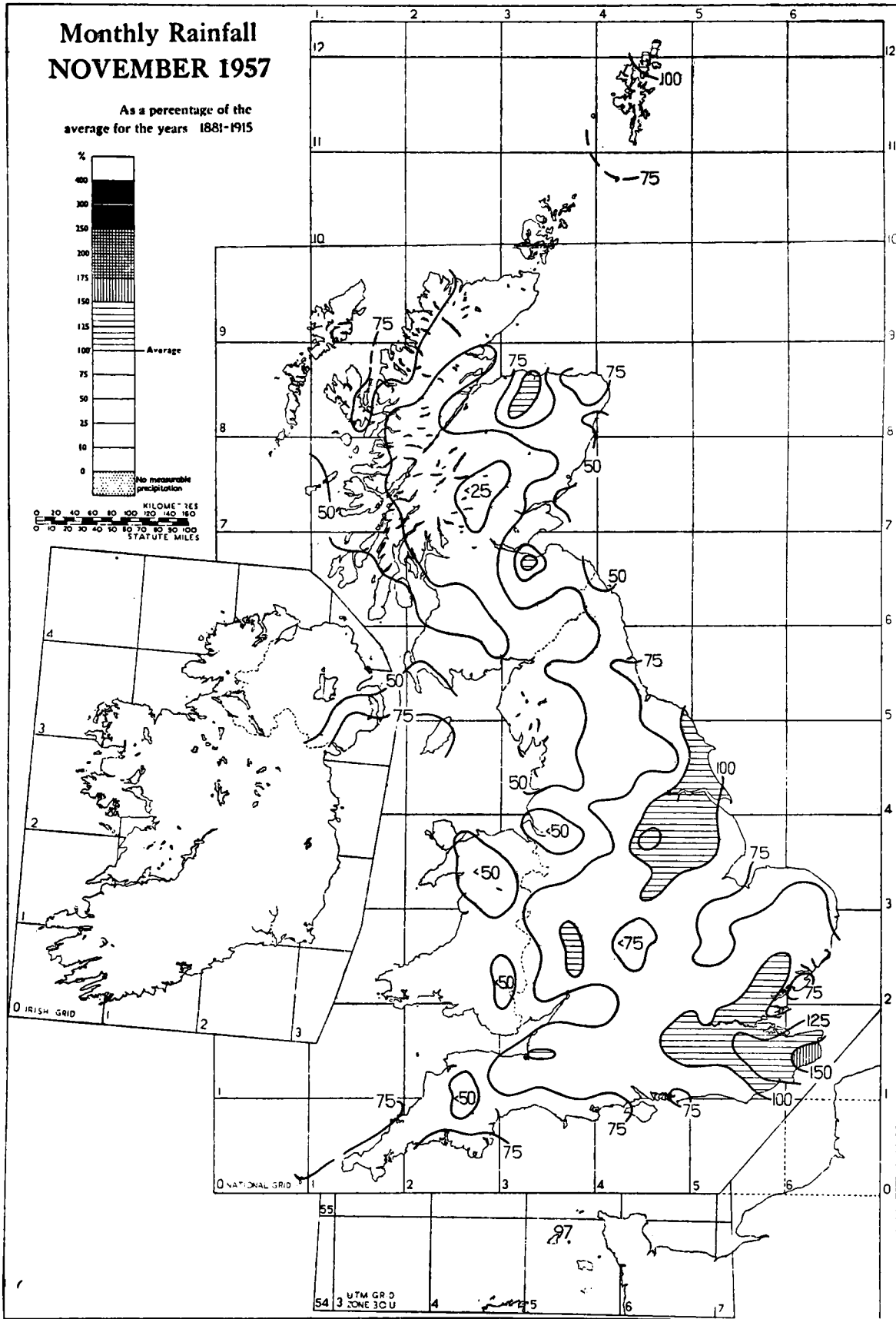
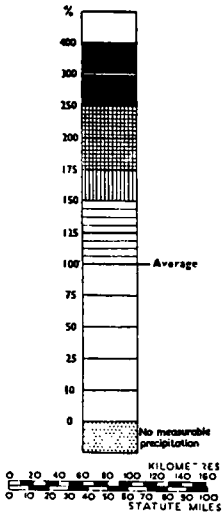
Monthly Rainfall OCTOBER 1957

As a percentage of the
average for the years 1881-1915



Monthly Rainfall NOVEMBER 1957

As a percentage of the
average for the years 1881-1915



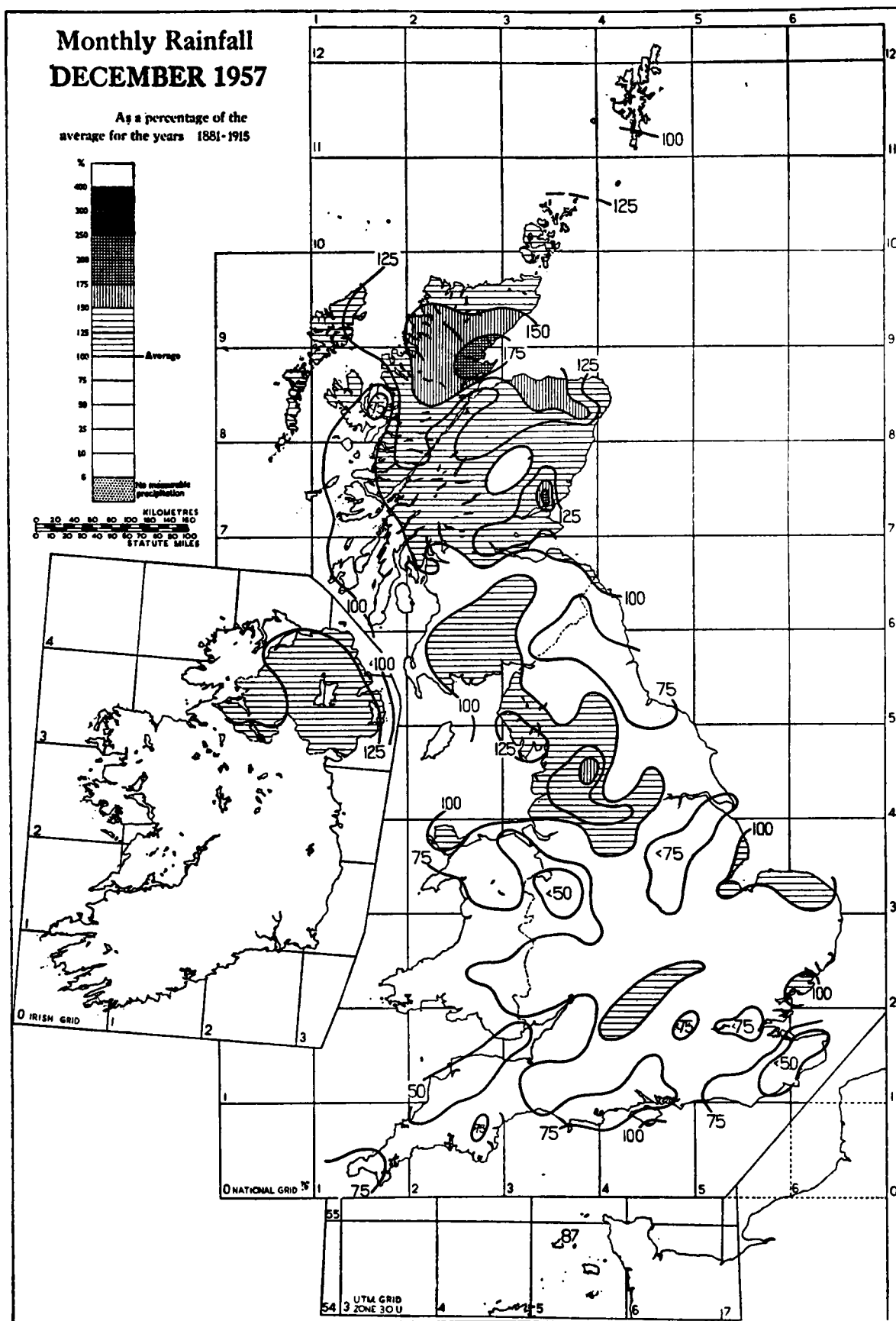


Table 8c. Monthly Rainfall at 334 Stations in Great Britain and Northern Ireland in 1957
ENGLAND, WALES AND THE ISLANDS

County and River Division	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
London.....2	St. Pancras (Camden Square)	in. 1.59	in. 3.11	in. 1.05	in. .26	in. 1.22	in. .61	in. 3.32	in. 2.64	in. 2.48	in. 1.99	in. 2.40	in. 1.68	in. 22.35
Surrey.....5	Whiteley Village	1.43	3.19	1.02	.27	1.70	1.03	3.23	2.76	2.56	1.38	2.24	1.91	22.72
".....6	Shotermill (Sewage Works)	3.50	5.04	2.33	.24	1.68	1.53	4.27	3.55	3.37	2.23	3.67	3.00	34.41
".....6	Godalming (Borough Road P.S.)...	1.77	3.90	1.38	.42	1.46	1.10	4.11	2.46	2.59	1.54	2.88	2.49	26.10
Kent.....1	Dover (Waterloo Crescent)	2.07	4.54	1.26	.49	1.50	.21	5.18	2.41	3.35	1.23	5.45	1.72	29.41
".....2	Ashford.....	2.10	4.78	1.20	.45	1.30	1.00	3.22	3.08	3.60	1.46	4.47	1.83	28.49
".....4	Edenbridge (Falconhurst)	2.43	5.14	1.22	.20	1.65	1.54	4.29	3.08	3.16	1.54	3.94	2.73	30.92
".....4	East Malling (Research Station)...	1.72	3.51	1.11	.15	1.53	1.40	3.25	2.24	2.86	1.17	3.00	2.47	24.41
".....4	Strood (Waterworks)	1.12	3.04	1.03	.22	1.17	.99	2.63	2.39	2.69	1.18	2.73	1.98	21.17
".....5	Bromley	1.34	2.83	.88	.21	1.11	.82	3.08	3.97	2.72	1.68	3.12	1.82	23.58
Sussex.....1	Bognor Regis (Waterloo Square) ..	2.25	4.47	1.53	.12	.84	1.32	3.94	3.32	3.72	1.61	2.89	1.70	27.71
".....1	Compton (Compton House)	3.72	6.10	2.53	.14	1.61	1.81	4.45	3.59	3.85	1.60	2.90	3.64	36.94
".....2	Horsham (Sewage Disposal Works) ..	2.48	4.76	1.56	.13	.96	1.88	4.08	2.70	2.94	1.65	2.55	2.25	27.94
".....3	Worthing (Beach House Park)	1.87	4.26	1.37	.10	.86	1.59	3.89	1.97	3.13	1.51	2.96	1.79	25.30
".....4	Horsted Keynes (Holy Well P.S.) ..	2.62	5.05	1.60	.14	1.37	2.60	3.68	2.45	4.21	1.80	3.43	2.73	31.68
Hampshire.....1	St. Catherine's Point Lighthouse ...	2.35	3.78	1.90	.27	.66	1.06	3.89	1.98	4.16	2.00	2.55	3.57	28.17
".....4	Everton (Efford)	2.17	3.63	2.18	.06	1.03	2.25	3.45	2.59	3.14	2.60	2.61	2.01	27.72
".....4	Southampton (East Park)	2.93	4.03	2.06	.09	1.57	1.69	4.30	3.49	2.65	2.39	2.64	2.10	29.94
".....5	Portsmouth (Southsea Common) ...	2.06	4.25	1.57	.12	.80	1.75	3.53	1.93	2.75	1.71	2.67	1.78	24.92
".....5	Winchester (Recreation Ground) ...	2.64	4.32	2.37	.14	1.51	1.52	4.85	3.76	3.32	2.58	2.94	2.95	32.90
".....8	South Farnborough (R.A.E.)	1.43	3.52	1.31	.37	1.15	1.13	3.63	1.46	2.88	1.59	2.98	2.20	23.65
Berkshire.....4	Shinfield (Univ. Horticultural Fm.) ..	1.42	2.71	1.12	.27	.96	1.61	4.18	1.89	2.94	2.02	2.38	2.34	23.84
".....5	Didcot (Sewage Works)	1.56	3.23	1.23	.46	1.50	2.20	3.18	2.51	2.97	1.97	1.69	2.17	24.67
Hertfordshire.....2	Harpenden (Rothamsted)	1.33	3.04	1.18	.29	1.28	2.29	2.51	2.14	3.07	2.38	2.06	2.25	23.82
".....4	Royston (Earls Hill House).....	1.17	2.35	1.19	.26	1.10	2.30	2.68	2.36	3.20	2.04	2.02	2.17	22.84
Buckinghamshire..2	Princes Risborough (Research Lab.) ..	1.62	3.19	1.22	.23	1.26	2.24	3.30	2.20	2.83	2.31	2.29	2.90	25.59
".....3	Slough (Upton)	1.44	2.89	1.07	.24	1.13	.69	4.10	2.00	2.52	2.02	2.37	1.85	22.32
".....3	Penn (Rayners)	2.26	4.03	1.96	.32	1.61	1.55	3.85	3.50	3.52	2.50	2.35	3.16	30.61
".....5	Buckingham (Foxcote Pumping Stn.) ..	1.63	3.32	1.72	.33	1.97	1.54	3.49	2.71	3.97	1.91	1.51	2.64	26.74
Oxfordshire.....3	Oxford (Radcliffe Met. Station)	1.61	2.83	1.70	.39	1.66	2.19	3.35	3.77	3.99	2.06	1.99	2.53	28.07
".....3	North Newington (Orchard House) ..	1.59	3.12	2.21	.52	1.44	1.58	3.96	2.74	3.54	1.58	2.21	2.37	26.86
Northamptonshire 4	Norton Junction	1.23	2.62	1.89	.97	1.87	2.27	2.89	2.55	5.45	1.30	1.56	1.92	26.52
".....4	Wellingborough (Swanspool)	1.32	2.20	2.14	.30	1.70	2.39	2.91	2.39	4.42	1.74	1.77	2.31	25.59
Huntingdonshire..1	St. Ives (Tenterleas)	1.00	1.84	1.67	.29	1.28	1.65	2.01	3.71	3.53	1.34	1.38	2.12	21.82
".....1	Whittlesea Mere .....	.80	2.14	1.29	.12	1.28	1.41	2.61	2.63	4.16	1.18	1.31	1.64	20.57
Bedfordshire.....3	Woburn (Experimental Farm)	1.29	2.59	1.37	.20	1.34	2.13	2.53	3.54	2.82	1.88	1.82	2.63	24.14
".....3	Sandy (Moggerhanger Park) .....	.95	2.21	1.69	.25	1.09	1.37	2.56	3.12	3.32	1.64	1.44	2.49	22.13
Cambridgeshire...2	Cambridge (Botanic Gardens)	1.16	2.13	1.52	.10	.70	1.81	2.42	1.93	3.25	1.55	1.33	1.77	19.67

Table 8c. Monthly Rainfall—ENGLAND, WALES AND THE ISLANDS (continued)

County and River Division	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Cambridgeshire	Littleport (Highfield House)	1.25	1.81	1.67	.16	1.08	1.42	2.17	2.38	4.29	1.28	1.12	1.43	20.06
"	March	1.23	2.13	1.74	.25	1.08	2.14	1.98	2.11	4.27	1.25	1.51	1.85	21.54
Essex	Hatfield Broad Oak (Barrington)	1.12	2.47	1.48	.25	.83	1.97	2.99	1.90	2.96	2.12	2.07	2.10	22.26
"	Southend (Waterworks) . . . . .	.94	1.95	.88	.12	1.19	1.11	2.24	2.00	2.62	1.43	2.39	1.10	18.57
"	North Weald (Canes)	1.27	3.12	1.16	.32	.77	1.04	3.05	1.78	2.75	1.90	2.19	2.00	21.35
"	Shoeburyness	1.29	2.32	1.21	.14	1.30	1.24	2.93	2.61	3.50	1.22	2.06	1.55	21.37
"	Bradwell-on-Sea (Bellropes)	1.08	2.28	1.01	.18	.96	1.51	3.61	2.14	2.94	1.25	2.29	1.98	21.23
"	Earls Colne (Grammar School)	1.17	2.05	1.50	.14	.99	1.53	2.76	2.29	2.83	1.91	2.74	1.89	21.80
Suffolk	Ipswich (Belstead Hall)	1.22	2.63	1.31	.30	1.70	2.10	2.78	2.59	2.75	1.67	2.72	1.94	23.71
"	Felixstowe	1.04	2.05	1.19	.25	1.55	.98	4.29	1.41	2.45	1.28	1.65	1.94	20.08
"	Lowestoft (Secondary School)	1.27	2.24	1.68	.49	1.39	1.95	2.24	1.74	3.29	1.33	1.46	1.79	20.87
"	Bury St. Edmunds (Westley Hall)	1.39	2.27	1.76	.30	1.26	1.65	3.27	3.33	4.53	1.54	1.81	2.08	25.19
Norfolk	Sproston	2.02	2.35	2.13	.37	1.16	2.13	2.69	2.42	3.55	1.35	2.06	2.48	24.71
"	Aylsham (The Mount)	2.04	2.67	1.95	.70	1.13	2.20	3.32	2.60	3.97	1.27	1.85	2.59	26.29
"	Sandringham House Gardens	2.22	3.38	2.33	.38	1.45	1.93	1.98	2.59	4.00	1.80	1.49	2.45	26.00
"	Cromer (Howards Hill)	1.85	2.21	1.94	.57	1.11	2.07	2.74	2.91	3.58	1.51	1.58	2.56	24.26
"	Wells (Outfall Sewage Works)	1.75	2.80	1.83	.40	1.06	1.92	1.74	1.56	3.78	1.30	2.05	2.34	22.53
"	Thetford Waterworks	2.27	2.39	2.04	.28	1.10	1.41	4.01	2.73	3.93	1.31	1.41	2.40	25.28
"	Marham (Pumping Station)	1.80	2.86	2.00	.29	.93	1.90	3.36	2.72	4.33	1.59	1.35	1.98	25.11
Wiltshire	Fonthill House Gardens	3.81	4.90	2.82	.35	2.78	2.34	5.32	3.75	5.04	3.21	2.97	4.01	41.30
"	Porton (C.D.E.E.)	1.98	3.57	1.83	.37	1.79	1.67	3.69	3.53	2.54	2.38	2.19	2.71	28.25
"	Larkhill (School of Artillery)	2.41	3.63	1.81	.24	1.96	2.02	3.67	2.59	3.01	2.38	2.10	2.72	28.54
"	Aldbourne (Manor House)	2.44	4.21	2.06	.36	1.93	1.56	3.76	3.31	3.77	2.40	2.31	3.59	31.70
Dorset	Creech Grange	3.19	4.37	3.54	.19	2.01	1.19	3.36	3.39	3.95	3.16	2.15	2.73	33.23
"	Beaminstor (East Street)	3.97	5.35	3.61	.16	2.40	2.32	3.79	3.91	4.30	2.82	2.39	3.81	38.83
"	Blandford Kings Road	4.07	4.43	3.18	.09	2.75	1.85	4.13	3.03	3.29	2.75	3.30	2.77	35.64
Devonshire, S.	Plymouth (Mount Batten)	3.28	6.05	4.65	.19	1.94	1.69	5.66	3.07	3.49	2.79	2.82	2.85	38.48
"	Ashburton (West Street)	7.95	9.27	6.75	.47	2.95	2.31	5.12	3.68	5.19	3.28	2.85	5.44	55.26
"	Princetown (H.M. Prison)	11.68	12.21	10.93	.55	4.28	2.62	7.88	7.28	10.32	7.67	3.79	8.48	87.69
"	Teignmouth (Den Gardens)	2.90	5.71	2.88	.07	1.78	1.15	3.23	2.10	2.24	2.00	2.35	2.35	28.76
"	Creddon (Okefield)	2.68	4.62	2.31	.10	1.65	3.12	3.23	2.35	3.06	2.03	2.45	2.76	30.36
"	Sidmouth	2.51	4.74	3.03	.10	1.71	1.26	3.28	2.03	2.37	2.27	1.93	2.32	27.55
Devonshire, N.	Ilfracombe (Bowling Green)	3.76	5.26	4.21	.31	1.79	1.33	3.78	4.57	6.57	5.08	2.60	2.43	41.69
"	Torrington (Caynton House)	2.78	4.71	3.43	.29	2.35	2.42	2.73	3.21	5.00	3.87	2.36	1.90	35.05
Cornwall	Newquay (Mount Wise)	2.81	3.97	3.07	.30	1.63	2.13	2.67	3.47	3.19	3.43	2.89	2.95	32.51
"	Bodmin (Castle Hill House)	4.00	7.29	5.02	.38	2.31	3.46	3.90	3.84	4.35	3.99	3.15	4.30	45.99
"	Cannelford (Stannon Clay Works)	5.80	7.23	6.18	.58	2.67	5.05	4.85	5.70	6.25	6.94	3.32	5.26	59.83
"	Bude (School House)	2.55	3.71	3.10	.25	1.57	2.72	2.89	3.45	3.72	4.22	1.93	1.89	32.00

Table 8C. Monthly Rainfall—ENGLAND, WALES AND THE ISLANDS (continued)

County and River Division	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cornwall.....	Penzance (Penlee Gardens)	3.33	5.35	4.87	.75	3.19	1.96	3.13	4.64	4.34	3.32	3.04	4.64	in. 42.56
"	Falmouth	3.71	5.94	4.94	.48	3.12	3.78	3.12	3.74	3.35	3.22	2.61	3.98	41.99
"	St. Austell (Poltair Public Gardens)	3.82	5.94	5.66	.51	3.28	4.16	3.09	4.45	4.04	3.43	3.32	3.62	45.32
"	Scilly (Tresco Abbey)	2.35	3.97	4.42	.66	1.28	.75	2.07	2.76	2.04	2.01	2.40	3.96	28.67
Somerset.....	Litton (Sherborne Reservoir)	3.66	3.84	2.64	.11	2.57	2.10	4.83	5.45	5.01	3.83	2.46	3.13	39.63
"	Bath (Henrietta Park)	2.42	2.74	2.19	.13	2.16	1.27	3.27	3.76	3.48	2.89	2.64	2.44	29.39
"	Long Ashton (Research Station)	3.20	3.46	2.86	.14	1.94	1.79	4.47	3.15	4.57	3.72	2.76	2.56	34.62
"	Street (Millfield)	2.96	3.42	2.06	.03	2.06	2.43	3.58	3.56	3.37	2.60	1.74	2.70	30.51
"	Burnham	2.88	3.33	2.10	.06	1.01	1.92	2.66	2.41	3.38	2.68	2.06	1.90	26.39
"	Taunton (Vivary Park)	1.78	3.99	1.82	.03	1.57	3.81	2.44	2.09	2.67	1.93	2.11	2.57	26.81
"	Dunkery Beacon	9.27	8.89	6.80	.28	3.64	2.13	6.07	6.58	9.91	8.00	3.46	5.53	70.56
"	East Anstey (Dassels)	5.28	7.66	5.09	.44	2.14	2.34	5.18	5.32	7.30	4.79	2.97	4.36	52.87
Gloucestershire....	Cheltenham (Hewletts Reservoir)	2.26	2.77	2.10	.17	1.40	1.18	3.84	4.31	3.30	1.51	2.05	3.13	28.02
"	Blockley (The Manor House)	1.95	2.85	2.32	.23	1.44	.92	4.01	4.78	4.25	1.36	1.99	2.93	29.03
"	Lechlade (St. John's Lock)	2.05	3.35	2.30	.33	1.70	1.54	2.47	3.31	3.04	2.04	1.79	1.91	25.83
"	Cirencester (Royal Agric. College)	3.75	4.07	2.75	.30	1.59	1.34	3.53	3.82	4.73	2.10	1.81	2.61	32.40
Herefordshire....	Ross-on-Wye	1.64	2.69	2.02	.00	1.36	.77	2.26	2.12	3.20	1.29	2.38	2.80	22.53
"	Vowchurch (Ladywell House)	2.07	3.96	2.18	.10	1.79	1.11	2.84	4.43	5.80	1.30	2.47	3.31	31.36
"	Presteigne (Middlemoor)	2.09	3.51	2.90	.13	2.23	1.83	2.73	5.58	6.76	1.68	3.06	2.94	35.44
Shropshire	Bromfield (Oakly Park)	2.11	3.02	2.42	.06	2.00	2.13	2.84	6.66	5.41	1.69	2.48	2.18	33.00
"	Church Stretton (Sewage Works)	2.14	2.71	2.29	.61	1.77	1.75	4.51	8.00	5.94	1.91	2.90	2.52	37.05
"	Shrewsbury (Monkmoor)	1.06	1.82	1.58	.44	1.45	1.58	3.18	5.54	4.77	1.79	1.69	.95	25.85
"	Oswestry (Mount Reservoir)	2.51	3.43	2.43	.18	2.11	1.10	6.70	5.75	7.54	2.40	1.91	1.73	37.79
Staffordshire....	Lichfield (Hanch Reservoir)	1.15	2.05	2.23	.27	.84	1.30	3.29	4.94	6.17	1.52	1.92	1.44	27.12
"	Stafford (Riverway Nurseries)	1.67	1.72	2.03	.23	1.25	1.96	3.95	4.86	4.74	2.24	1.69	1.30	27.64
"	Keele (Univ. College of N. Staffs.)	1.68	2.36	2.78	.40	1.13	2.07	6.00	6.62	5.69	2.51	1.65	1.66	34.55
Worcestershire....	Malvern (Surveyor's Depot)	1.46	2.78	2.22	.00	1.82	1.69	3.64	4.88	4.64	1.10	2.54	2.24	29.01
"	Stourport (Lincombe Lock)	1.18	2.99	1.51	.06	1.46	1.61	3.74	4.66	4.00	1.08	2.25	1.79	26.33
Warwickshire....	Alcester (Arrowside)	1.36	2.29	2.09	.14	1.23	1.31	3.51	3.95	3.12	1.07	1.94	1.60	23.61
"	Leamington Spa (Pump Room Gdns.)	1.23	2.42	2.09	.17	1.05	1.31	3.24	1.88	3.78	1.23	1.53	2.17	22.10
"	Coventry (City Hospital)	1.20	3.01	2.33	.25	1.38	1.76	4.09	2.06	4.15	1.21	1.39	2.23	25.06
"	Birmingham (Edgbaston Observatory)	1.30	2.93	2.49	.19	1.26	1.77	3.88	4.23	5.10	1.50	2.07	2.37	29.09
Leicestershire....	Caldecott (Eye Brook Reservoir) .....	.78	2.39	2.18	.27	1.25	1.93	2.42	2.67	4.59	1.04	1.58	2.13	23.21
"	Thornton Reservoir	1.66	2.64	2.29	.15	1.31	1.42	2.75	2.93	5.17	1.23	1.92	2.28	25.75
"	Loughborough (Nanpantan Res.)	1.83	2.66	2.20	.23	1.34	1.25	3.54	2.58	5.98	1.44	2.17	2.03	27.25
Lincolnshire....	Spalding (Pode Hole)	1.10	2.65	1.95	.29	1.57	2.18	2.64	2.42	3.90	1.06	1.94	2.25	23.95
"	Kirton	1.34	3.49	1.57	.19	1.71	2.22	2.71	1.49	4.14	1.21	2.10	1.99	24.16
"	Cranwell Airfield	1.05	1.85	1.67	.20	1.16	2.08	2.72	2.05	3.90	.89	1.84	1.72	21.13

Table 8c. Monthly Rainfall—ENGLAND, WALES AND THE ISLANDS (continued)

County and River Division	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Lincolnshire.....3	Potterhanworth (Old Hall)	1.50	2.09	1.62	.29	1.42	2.73	3.17	3.06	4.63	1.40	2.09	1.70	25.70
".....3	Lincoln (Skellingthorpe Hall)	1.25	1.96	1.51	.81	1.52	1.66	3.09	2.85	4.13	1.20	2.52	1.48	23.35
".....4	Skegness (Marine Gardens)	1.80	2.81	1.51	.35	2.00	1.43	2.55	2.56	4.21	1.47	1.97	2.30	24.96
".....5	Brigg (Wrawby Road)	1.35	1.67	1.51	.30	1.30	1.53	3.11	2.84	3.82	1.16	2.07	1.99	22.65
".....5	Grimsby (Little Coates Pump, Stn.) ..	1.93	2.03	1.00	.30	1.42	2.03	2.96	2.96	3.84	1.17	2.39	2.09	24.12
Nottinghamshire..5	Nottingham (The Castle).....	1.29	1.68	2.26	.14	1.06	1.47	2.76	3.57	5.11	1.28	1.71	1.91	24.24
".....5	Warsop (Gleadthorpe E.H. Farm)...	1.22	1.98	1.51	.28	1.37	1.36	3.72	3.33	4.09	.89	2.75	1.69	24.19
Derbyshire.....6	Derby (Markeaton Park).....	1.72	2.15	2.29	.23	.87	1.58	3.75	2.60	5.90	1.47	1.97	2.11	26.64
".....6	Buxton (Terrace Slopes).....	3.81	3.58	4.50	.52	2.49	2.12	5.83	6.95	10.09	4.72	2.39	6.33	53.33
Cheshire.....2	Birkenhead (Hunts Lock)	1.51	1.87	2.61	.53	1.32	1.54	4.98	3.67	7.17	3.03	1.56	2.66	32.45
".....3	Birkenhead (Bidston Observatory)...	1.09	1.74	1.74	.35	1.39	1.11	4.47	2.99	5.60	2.63	1.22	2.29	26.62
Lancashire, South..3	Salford (Weaste Sewage Works)	2.49	2.15	3.09	.45	1.38	1.97	4.59	4.20	5.86	4.06	1.66	3.68	35.58
".....3	Bolton (Heaton Reservoir)	3.65	2.84	3.75	.67	1.82	2.58	6.55	7.10	8.18	5.84	2.23	5.49	50.70
".....3	Rochdale (Queensway).....	4.45	3.01	4.04	.50	1.95	2.21	5.19	5.92	6.42	6.34	2.18	4.58	46.79
Lancashire, Central1	Squires Gate (Blackpool Airport)...	2.72	2.52	1.85	.31	3.07	1.47	3.71	3.78	4.55	4.29	1.57	3.20	33.04
".....1	Stonyhurst College	4.27	2.98	3.91	.75	2.16	1.99	6.05	6.66	8.32	8.13	1.79	6.87	53.88
".....3	Formby (Freshfield Road)	2.18	2.40	2.19	.31	1.88	1.25	3.66	4.91	5.22	3.74	1.27	2.73	31.74
Lancashire, North..3	Morecambe	4.06	3.16	2.50	.49	3.06	1.88	3.28	4.23	5.82	6.57	1.53	4.38	40.96
".....5	Garstang (Grizedale Reservoir)	4.33	3.52	3.72	.57	3.00	2.42	5.75	4.39	6.57	6.24	1.46	4.70	46.67
Yorkshire, W.R....1	Sedburgh (Brigflatts)	8.08	4.43	4.60	1.10	3.63	2.48	4.59	5.63	5.26	7.41	1.33	5.44	53.98
".....6	Balby (Sewage Works)	1.07	1.80	.97	.13	.84	1.84	3.62	5.76	3.73	1.00	2.53	1.77	25.06
".....7	Sheffield W.W. (Redmires Res.)	2.57	3.74	3.62	.23	1.56	1.63	3.65	7.45	6.42	2.95	2.71	4.91	41.44
".....8	Huddersfield (Oakes)	3.39	2.93	2.42	.35	1.28	1.90	4.05	5.40	4.65	4.12	2.64	4.72	37.85
".....8	Wakefield (Clarence Park) .....	.99	2.33	1.29	.16	1.35	2.07	3.06	4.28	3.29	1.04	1.69	3.05	24.60
".....9	Goole (Sewage Pumping Station)...	1.04	1.76	1.31	.19	1.13	1.82	2.90	4.14	3.67	1.45	1.99	2.12	23.52
".....9	Bradford (Lister Park)	2.37	3.38	2.18	.25	1.40	1.65	2.83	5.15	4.25	3.17	2.03	3.60	32.26
".....10	Ilkley (Spence's Garden)	2.71	3.16	2.04	.31	1.43	1.87	2.22	3.91	5.69	3.25	1.81	4.25	32.65
".....10	Oughtershaw	9.92	6.06	6.14	.94	3.47	2.53	6.77	8.36	5.30	9.29	3.25	8.43	70.46
".....11	Knarborough (Water Tower)	1.61	2.62	1.70	.23	.88	1.24	2.98	6.33	3.52	2.74	1.87	2.85	28.57
".....11	Ramskill (Raygill House).....	5.80	3.68	3.72	.58	1.70	1.94	4.02	5.91	5.08	6.40	2.73	4.74	46.30
Yorkshire, E.R....2	Birdsall Gardens	1.42	3.25	1.74	.60	1.78	1.83	3.59	5.10	3.12	2.82	2.85	3.14	31.24
".....3	Hull (Pearson Park)	1.64	1.94	1.51	.33	1.14	2.57	3.29	3.10	3.46	1.54	2.23	2.19	24.94
".....3	Lowthorpe (Woodman's Cottage) ..	1.39	2.51	1.36	.67	.92	1.66	3.47	3.84	2.61	2.19	2.68	2.06	25.36
Yorkshire, N.R....1	Leyburn (Bolton Hall)	3.93	3.30	1.66	.16	1.65	1.89	3.78	3.72	3.41	3.32	2.26	3.88	32.96
".....2	Felixkirk (Mount St. John)	1.56	2.34	1.49	.54	1.37	2.08	4.27	5.06	3.25	2.03	1.69	2.21	27.89
".....3	York (Museum).....	1.03	2.48	1.66	.20	.94	2.26	3.05	5.11	3.16	2.03	1.47	2.32	25.71
".....4	Farndale Vicarage.....	2.46	4.37	1.97	.73	1.41	2.13	4.16	3.82	4.46	2.89	2.74	2.70	33.84
".....5	Scarborough.....	1.52	2.08	1.13	.73	.93	1.29	3.37	2.56	3.01	3.09	2.54	2.04	24.29

Table 8c. Monthly Rainfall—ENGLAND, WALES AND THE ISLANDS (continued)

County and River Division	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Yorkshire, N.R.6	Middlesbrough (Albert Park)	in. 1.38	in. 1.76	in. .83	in. .25	in. 1.04	in. 2.17	in. 3.69	in. 2.04	in. 2.64	in. 1.69	in. 1.65	in. 1.24	in. 20.38
"6	Baldersdale (Hury Reservoir)	4.65	3.06	2.00	.46	2.05	1.31	4.59	5.90	3.82	3.75	2.03	4.30	37.92
Durham1	Darlington (South Park)	2.00	2.02	.99	.27	1.52	1.71	3.51	3.03	3.65	1.92	1.48	1.81	23.91
"1	Barnard Castle (Bowes Museum)	3.01	2.73	1.81	.21	1.79	1.18	3.59	4.34	4.14	2.72	1.77	3.38	30.67
"2	Durham (Houghall Hort. Station)	1.79	2.43	1.04	.31	1.65	1.40	3.18	3.04	3.23	1.55	1.49	1.64	22.75
"2	Weardale W.W. (Waskerley)	2.97	3.06	1.84	.60	1.75	1.82	4.17	5.40	4.25	2.39	2.46	2.38	33.09
Northumberland3	Newcastle (Leazes Park)	1.03	1.91	1.15	.43	1.53	2.08	3.48	3.29	3.69	1.75	1.43	1.71	23.48
"4	Bellingham (Highgreen)	4.77	3.55	2.57	.58	1.52	1.80	4.07	3.71	2.41	2.66	1.29	2.22	31.15
"5	Morpeth (Cockle Park)	2.56	2.86	2.37	.37	1.97	1.41	3.56	3.66	3.00	2.30	1.60	1.82	27.48
"5	Howick Hall Gardens	2.49	2.80	1.95	.36	1.95	.94	3.08	4.84	2.40	1.68	1.44	2.06	25.99
"6	Ilderton (Liburn Tower Gardens)	2.85	3.74	1.54	.30	1.90	1.13	3.25	6.50	2.55	1.90	1.92	2.50	30.08
Cumberland1	Mindrum	2.91	2.93	1.69	.58	1.47	1.05	3.09	4.81	2.57	2.20	1.89	2.29	27.48
"1	Silloth Airfield	4.50	2.43	2.88	1.12	2.31	1.46	3.26	3.10	4.26	3.74	1.37	2.69	33.12
"1	Geltsdale	3.95	3.02	2.72	1.30	2.67	1.72	5.22	4.83	4.46	4.67	1.70	3.79	40.05
"2	Keswick (High Hill)	8.99	5.29	3.50	1.06	2.87	1.48	3.55	7.53	6.70	6.29	2.11	6.99	56.36
"3	Ravenglass (The Grove)	3.47	3.59	3.12	1.30	2.90	2.55	4.02	3.62	7.20	4.76	1.49	6.00	44.02
"3	Ennerdale (Gillerthwaite)	10.80	9.50	8.40	6.90	6.90	5.80	6.90	7.20	9.50	9.90	4.50	9.40	95.70
Westmorland1	Hawes Water (Burn Banks)	12.62	7.00	5.35	1.13	3.43	1.49	3.30	7.19	6.44	7.69	2.42	8.49	66.55
"2	Ambleside	12.30	7.61	6.96	1.70	4.56	2.76	5.11	7.59	7.20	9.64	3.36	8.96	77.75
"3	Kendal (Fisher Tarn Reservoir)	8.17	5.07	4.81	1.39	4.80	2.88	4.20	6.06	6.14	8.49	1.61	5.86	59.48
Monmouthshire3	Newport W.W. (Nantpyridd)	6.37	5.08	5.72	.08	1.71	1.44	4.56	4.79	5.94	4.75	2.60	3.10	46.14
"3	Abergavenny (Plas Derwen)	3.71	6.27	3.68	.06	2.44	.84	3.83	3.38	6.65	2.10	2.79	4.83	40.58
Glamorgan3	Swansea (Victoria Park)	3.89	3.96	5.47	.50	1.75	1.46	4.12	3.79	9.08	4.82	3.16	2.89	44.89
"3	Ystalyfera (Wern House)	9.88	7.49	8.36	.74	3.47	1.60	6.30	7.25	11.13	7.89	3.85	4.94	72.90
"6	Treherbert (Tyn-y-waun)	15.84	10.65	13.34	.92	4.26	1.43	9.58	7.70	14.75	10.77	4.16	8.39	101.79
"7	Cardiff (Penylan)	4.90	5.31	5.10	.23	1.73	1.27	5.17	3.39	5.07	4.21	2.74	2.40	41.52
Carmarthenshire2	Llanddeusant (Pontcrynfe)	8.30	6.53	5.99	.51	2.88	1.78	6.17	5.77	9.02	5.85	3.63	5.20	61.63
"2	Abergorlech	8.23	6.29	7.13	.52	3.68	2.57	6.92	6.83	11.55	5.22	3.66	4.90	67.50
Pembrokeshire4	Pembroke (Stackpole Court)	2.96	4.15	4.77	.25	1.65	1.96	3.95	2.04	5.77	3.81	2.71	3.52	37.54
"4	Haverfordwest (Hospital Grounds)	4.26	3.59	4.58	.41	2.45	3.19	5.89	2.48	8.70	4.38	2.57	4.22	46.72
Cardiganshire2	Trawscoed	4.32	3.80	4.74	.37	1.80	2.65	6.21	6.65	8.65	5.55	3.51	3.37	50.62
"2	Aberystwyth (Plant Breeding Stn.)	3.06	2.67	4.97	.31	1.57	2.03	4.42	4.27	7.25	5.21	2.28	2.55	40.59
"2	Afon Rheidol (Nant-y-moch)	8.74	5.87	7.69	.93	3.14	3.05	10.84	10.33	12.07	11.61	4.87	7.82	86.96
"3	Cardigan (Plas Llangoedmore)	3.31	3.53	3.07	.40	2.10	1.45	4.66	1.58	6.60	3.58	2.38	2.88	35.54
Brecknockshire7	Swansea W.W. (Cray Reservoir)	16.15	10.79	10.86	.73	5.19	1.78	7.58	7.48	13.78	8.03	4.61	7.82	94.80
Radnorshire1	Birmingham W.W. (Tymynydd)	6.85	7.50	5.16	.26	3.35	2.60	6.13	8.66	11.27	5.09	4.12	5.17	66.16
Montgomeryshire1	Machynlleth (Garth)	6.68	3.93	7.21	.70	2.32	2.68	9.21	8.46	9.17	9.49	2.56	5.64	68.05
"4	Newtown (Penarth Weir)	2.17	3.29	2.54	.11	1.47	2.12	3.68	6.69	5.59	2.92	3.13	2.85	36.92

SCOTLAND

Table 8c. Monthly Rainfall—SCOTLAND (continued)

County and River Division	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Lanarkshire	5	in. 5.60	in. 2.80	in. 2.97	in. 1.80	in. 2.08	in. 2.01	in. 3.69	in. 4.16	in. 2.98	in. 3.87	in. 1.48	in. 3.88	in. 37.32
"	5	6.56	2.83	3.79	2.10	2.74	2.03	3.91	4.23	3.17	4.16	1.89	4.10	41.51
Ayrshire	3	4.24	2.13	3.94	2.23	1.90	2.13	3.82	4.14	3.60	3.74	1.91	2.40	36.18
"	3	4.49	2.43	4.48	2.84	2.08	2.16	3.94	3.77	3.39	4.70	2.02	3.92	40.22
"	5	4.54	2.45	4.15	2.47	1.81	2.22	4.52	4.55	4.15	4.83	2.18	4.04	41.91
"	13	7.03	5.59	4.76	2.36	3.20	1.78	5.28	7.02	3.49	5.88	3.06	7.37	56.82
Renfrewshire	3	9.25	4.30	5.95	2.86	2.28	2.41	5.97	4.40	3.80	6.60	2.51	7.70	58.03
Stirlingshire	1	6.34	3.73	2.75	1.42	1.95	1.73	3.53	3.66	2.02	3.08	1.46	4.62	36.29
Buteshire	1	6.94	3.56	5.78	2.72	2.18	2.45	6.56	5.64	4.14	5.74	2.59	4.91	53.21
"	3	5.13	3.89	4.67	2.81	2.13	2.58	4.48	4.99	3.72	5.27	3.82	5.64	49.13
Argyllshire	2	10.58	4.49	5.62	2.81	1.46	3.96	5.43	5.73	4.40	8.11	4.18	7.35	64.12
"	3	17.14	5.71	11.12	3.85	3.83	5.86	7.04	6.50	6.46	14.12	5.02	12.13	98.78
"	4	15.47	7.87	9.24	4.05	2.94	3.51	8.30	7.63	6.25	13.29	3.52	16.12	98.19
"	7	8.45	3.19	6.73	2.93	1.83	6.10	6.08	5.61	3.57	8.69	4.03	6.24	63.45
"	8	8.29	4.11	6.20	2.02	2.14	3.79	5.98	5.28	4.23	8.21	3.05	5.71	59.01
"	9	5.91	3.46	3.96	2.20	2.65	1.95	5.17	4.12	3.88	4.83	3.01	7.04	48.18
"	10	5.68	3.37	5.53	2.18	2.00	3.09	4.87	5.39	4.03	5.70	2.54	5.57	49.95
"	11	9.54	4.23	7.16	2.12	2.21	3.68	5.87	6.66	6.06	8.47	3.75	6.79	66.54
"	11	13.81	4.58	9.01	4.58	2.09	4.65	6.50	7.34	5.07	11.70	3.41	12.10	84.84
"	12	14.07	7.74	10.72	3.52	3.89	3.65	7.79	8.01	6.36	10.69	3.39	10.09	89.92
"	14	8.05	3.60	4.23	2.14	1.72	2.52	5.89	4.30	4.47	5.76	2.57	5.55	50.80
"	14	7.09	3.94	4.64	2.23	2.49	3.51	5.15	4.37	4.61	5.94	2.87	4.37	51.21
"	14	6.58	2.96	4.35	1.66	2.07	2.85	4.71	3.11	2.82	5.12	2.53	4.82	43.58
"	14	13.99	5.65	7.13	3.68	1.81	4.48	6.56	7.61	5.20	9.27	5.40	6.86	77.64
"	14	5.83	3.21	4.69	1.78	2.76	2.37	5.06	3.69	2.94	4.93	2.36	5.52	45.14
"	14	5.37	3.53	2.83	1.68	1.91	1.56	5.91	5.40	1.81	3.05	2.02	5.68	40.75
Kinross-shire	2	2.76	3.37	1.52	.46	1.26	.73	4.97	3.07	1.45	1.42	1.25	3.10	25.36
Fife-shire	3	13.85	6.85	9.21	3.45	3.98	2.71	5.77	5.99	5.99	8.63	2.39	11.95	80.77
Perthshire	1	15.10	8.80	8.36	3.92	4.08	3.33	6.53	6.76	5.03	9.23	4.16	14.17	89.47
"	3	9.11	4.44	5.80	2.98	3.75	2.08	6.30	5.92	3.17	4.93	3.48	10.29	62.25
"	4	12.54	6.88	6.68	2.72	3.04	2.44	4.65	6.04	4.26	6.26	2.99	11.24	69.74
"	7	6.89	3.92	4.61	1.58	2.69	2.06	4.57	4.40	3.19	2.59	1.32	5.20	43.02
"	7	5.66	5.14	2.76	1.19	1.87	1.16	4.53	5.71	1.69	2.28	.77	6.14	38.90
"	11	10.00	5.86	5.40	1.77	2.26	2.36	4.25	5.36	2.93	4.91	1.80	8.33	55.23
"	12	4.77	3.56	3.47	.89	1.92	1.37	4.19	3.47	1.91	1.96	.67	3.90	32.08
"	14	9.81	4.21	5.66	1.74	1.80	2.96	5.62	5.14	2.66	7.30	1.74	9.75	58.39
Angus	1	5.60	4.90	3.40	1.40	2.50	1.90	7.00	4.60	3.10	2.10	1.90	5.20	43.60
"	2	3.24	3.81	2.46	1.01	1.85	1.09	5.26	4.18	1.51	1.97	1.73	4.85	32.96

Table 8c. Monthly Rainfall—SCOTLAND (continued)

County and River Division	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Angus	Arbroath (Springfield Park)	1·89	2·70	2·05	·83	1·43	1·01	3·39	3·73	1·31	1·17	1·13	3·11	23·75
"	Forfar (Den of Ogil)	4·53	4·27	3·70	1·28	2·41	2·14	6·59	4·84	2·95	1·96	1·94	5·50	42·11
"	Montrose (Royal Mental Hospital) ..	2·40	2·57	2·18	·80	1·60	1·20	4·37	4·00	1·50	1·27	1·37	3·11	26·37
Kincardineshire	Strachan (Bridge of Dye)	4·54	4·72	3·09	1·20	3·54	2·86	7·34	5·97	2·71	1·84	2·52	7·37	47·70
Aberdeenshire	Braemar (Bank)	3·30	2·93	2·29	1·29	1·09	1·60	4·33	4·52	2·57	1·95	1·32	2·89	30·08
"	Aboyne (Irrigation Farm)	2·55	2·54	2·23	1·26	2·47	1·84	5·93	4·33	1·60	1·00	1·91	4·76	32·42
"	Dyce (Craibstone)	2·45	2·26	2·24	1·41	1·52	3·27	8·27	4·64	2·26	1·39	1·66	3·99	35·36
"	Haddo House	1·98	1·58	2·07	1·39	1·60	2·49	7·31	4·77	3·58	1·61	2·00	4·40	34·78
"	New Deer School House	2·24	1·65	2·83	1·48	1·06	2·46	5·15	4·33	4·04	2·39	2·78	4·39	34·80
"	Peterhead (Mains of Buthlaw)	1·96	1·67	1·94	1·24	1·55	2·75	4·92	4·28	2·75	2·00	1·69	3·52	30·27
Banffshire	Turriff (Forglen Gardens)	2·22	1·77	2·42	1·41	1·46	3·44	4·98	4·84	3·23	1·83	2·20	4·25	34·05
"	Ballindalloch	2·30	1·73	2·53	1·33	3·20	3·45	7·21	5·36	2·14	1·62	3·83	3·68	38·38
"	Fochabers (Gordon Castle)	2·17	1·46	2·74	·61	1·35	3·04	4·09	4·99	1·97	1·48	3·27	4·34	31·51
Morayshire	Nairn (Achareidh)	2·28	1·52	3·31	·56	·83	1·99	5·23	4·55	1·29	1·53	1·56	2·55	27·20
Nairnshire	Dalwhinnie	8·27	5·60	3·94	1·62	1·16	1·95	4·64	4·32	2·85	4·29	1·96	6·50	47·04
Inverness-shire	Glenshero	8·57	3·76	3·85	1·39	1·66	2·29	4·23	4·16	2·95	5·47	1·29	7·73	47·35
"	Aviemore (Kinrara)	4·24	2·83	2·94	1·16	1·19	2·41	4·15	4·68	2·17	2·43	3·11	3·29	34·60
"	Fort Augustus (Auchterawe)	9·55	3·55	3·92	1·23	1·16	2·44	4·45	4·52	2·93	5·87	2·27	6·67	48·56
"	Loch Ness (Garthbeg)	6·51	3·62	3·87	1·24	1·31	1·99	5·76	6·45	2·81	4·72	2·41	5·77	46·46
"	Loch Morar (Rhubana)	10·83	4·30	5·82	4·11	1·90	5·25	8·02	5·93	4·50	10·93	4·31	9·02	74·92
"	Loch Hourn (Kinlochourn)	20·63	8·09	8·45	4·19	3·25	6·21	7·85	8·67	10·27	17·54	4·87	17·50	117·52
"	Arisaig House	8·57	4·45	6·30	3·36	1·92	4·53	9·66	5·66	3·78	9·91	4·43	6·63	69·20
"	Onich	14·95	5·06	9·47	3·71	2·86	4·59	6·72	7·69	5·02	12·48	3·47	11·33	87·35
"	Fort William (Teviot)	16·09	5·46	8·14	3·13	2·35	2·98	6·11	6·09	5·12	10·77	2·96	13·93	83·13
"	Isle of Eigg	8·19	3·64	6·52	3·20	1·83	4·67	6·38	6·56	4·96	10·17	4·39	7·91	68·42
"	Skye (Glenbrittle)	9·89	6·02	8·55	4·29	3·37	5·01	6·97	6·71	5·91	11·13	7·39	7·52	82·76
"	Skye (Portree)	11·99	6·43	6·55	4·27	2·50	3·05	3·37	7·22	5·58	11·10	5·06	9·71	76·83
"	Skye (Duntulm, Kilmuir)	8·89	3·79	5·24	2·85	2·11	3·26	4·24	5·90	3·95	7·97	3·70	7·18	59·08
"	Benbecula Airport	6·84	4·53	5·30	2·80	2·20	2·39	2·11	4·63	3·03	6·90	3·07	6·67	50·47
"	Harris (Kyles Lodge)	6·08	3·66	5·19	2·54	1·91	3·08	2·58	4·75	3·10	6·14	3·13	5·60	47·76
"	Fortrose	3·17	1·52	2·67	·69	·78	2·07	5·35	4·05	·87	1·53	1·38	3·08	27·16
Ross and Cromarty	Muir of Ord (Fairburn)	5·51	2·38	3·21	1·22	1·48	2·23	7·19	4·57	2·26	3·32	1·80	5·86	41·03
"	Tain (Mayfield)	3·31	1·76	2·82	·68	1·46	2·44	7·14	4·17	1·05	1·59	1·39	5·22	33·03
"	Inverbroom (Glackour)	8·01	4·25	5·41	2·08	1·49	3·20	4·53	7·49	6·36	8·30	4·11	11·17	66·40
"	Loch Torridon (Torridon House) ..	10·20	4·76	5·50	3·84	1·84	3·92	5·14	6·75	7·80	8·41	5·34	8·76	72·26
"	Inverasdale (Midtown)	10·24	3·66	4·80	3·12	2·07	3·80	3·81	6·39	4·45	10·63	5·12	8·91	67·00
"	Loch Duich (Ratagan)	15·94	6·80	6·49	4·04	1·43	5·16	6·93	6·38	7·11	13·78	4·67	12·63	91·36
"	Applecross (Milltown)	9·64	4·33	5·60	2·96	1·69	2·62	4·31	5·10	4·68	5·13	2·82	6·81	55·69

Table 8c. Monthly Rainfall—SCOTLAND (concluded)

County and River Division	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Ross and Cromarty	Achnashellach	13·73	5·91	7·54	3·18	2·15	5·02	5·19	7·80	8·72	12·49	6·12	14·09	91·94
"	Stornoway Airport	6·22	2·39	4·17	2·36	2·25	3·53	2·36	5·20	3·27	5·26	3·04	7·27	47·32
Sutherland	Glenrossal	6·10	2·99	3·66	1·67	2·18	3·05	4·76	5·81	3·61	4·84	3·18	9·80	51·65
"	Lairg (Crask)	5·82	4·78	4·53	1·72	2·19	2·73	5·44	5·76	3·97	5·29	3·64	9·75	55·62
"	Tongue	4·77	2·46	4·56	1·35	1·84	3·25	5·48	6·03	2·99	3·89	3·18	6·96	46·76
"	Cape Wrath	6·87	3·14	5·33	1·90	1·15	4·69	5·09	5·56	4·09	8·10	3·92	5·93	55·77
"	Lochinver (Bank House)	6·71	2·96	3·89	2·52	2·33	3·93	3·90	5·57	4·58	7·92	4·36	8·46	57·03
Caithness	Wick Airport	3·07	1·20	3·48	1·03	1·33	3·03	4·02	5·13	3·25	2·02	2·15	4·04	33·75
"	Loch Calder (Achavarn Weir)	3·03	1·74	3·65	1·01	1·45	2·64	4·54	3·90	3·41	2·82	2·66	5·84	36·69
"	Thurso (Holburn Head)	3·83	1·08	2·94	·93	1·20	2·14	4·39	3·26	3·22	4·20	2·79	3·86	33·84
Orkney	Stenness	4·42	2·65	5·50	1·60	1·58	2·13	3·25	3·79	3·03	5·50	4·21	6·08	43·74
"	Sanday (Start Point)	4·56	3·64	4·29	1·79	2·11	2·07	4·10	4·09	3·20	4·87	3·45	4·66	42·83
Shetland	Lerwick Observatory	5·25	4·37	4·37	2·29	2·42	2·53	2·95	3·17	4·19	6·28	4·12	4·73	46·67

NORTHERN IRELAND

Fermanagh	Newtownbutler (Crom Castle)	5·75	2·65	4·23	2·01	2·12	1·78	4·03	5·10	3·74	4·90	·93	4·59	41·83
"	Enniskillen (Bellevue)	4·30	2·65	3·66	1·35	2·31	1·85	4·44	4·87	4·26	3·77	1·15	4·75	39·36
"	Belleek	6·49	3·06	3·81	2·37	1·65	2·16	5·77	5·26	7·16	4·96	1·78	6·42	50·89
Armagh	Armagh Observatory	4·56	2·02	2·45	1·17	2·43	1·40	3·68	5·56	3·87	3·49	·99	4·30	35·92
Down	Newry (Bridge Street House)	5·34	3·22	3·60	1·43	2·06	·88	3·48	4·02	3·48	4·22	1·31	5·20	38·24
"	Silent Valley (Belfast Waterworks)	5·19	3·42	7·25	1·75	5·54	2·29	5·45	6·13	8·29	5·38	2·63	6·70	60·02
"	Seaford	5·65	4·18	4·43	1·15	2·89	1·16	4·48	4·83	5·11	4·06	2·97	6·01	46·92
"	Donaghadee (Orlock Reservoir)	3·60	1·74	2·75	·99	1·76	·81	3·83	3·16	3·60	3·34	1·28	4·06	30·92
Antrim	Belfast (Sewage Works)	4·09	2·10	2·54	1·62	2·48	1·07	3·45	3·50	4·83	3·80	1·74	5·17	36·39
"	Carrickfergus (Copeland)	4·37	2·98	3·42	1·55	2·51	1·91	4·14	3·58	4·98	3·97	2·38	4·91	40·70
"	Larne (Sallagh Springs)	5·58	4·50	4·23	1·86	3·36	3·34	5·27	5·01	8·15	5·40	2·52	7·07	56·29
"	Ballycastle (Coolgreany)	4·89	2·70	2·74	1·65	2·00	1·49	4·10	3·84	5·25	4·11	1·56	4·45	38·78
"	Aldergrove Airfield	3·71	1·57	2·28	1·14	1·74	1·64	4·19	4·19	4·71	3·23	1·07	4·75	34·22
"	Ballymena (Harryville)	4·74	2·36	3·07	1·60	1·55	3·43	4·53	3·44	5·52	4·12	1·46	5·66	41·48
Londonderry	Garvagh (Moneydig)	5·66	3·06	2·75	1·37	1·94	2·05	6·62	4·05	5·34	3·99	1·49	5·70	44·02
"	Coleraine (The Cutts)	4·83	2·89	2·75	1·62	2·11	1·90	6·39	3·28	4·88	3·56	1·93	5·36	41·50
"	Glendra Lodge	7·04	5·60	4·53	1·76	2·29	1·98	8·31	5·31	7·37	5·28	1·97	7·64	59·08
"	Londonderry (Creggan Reservoir)	5·16	2·08	2·49	1·17	1·49	2·24	6·45	3·88	6·27	4·18	1·37	5·51	42·29
"	Dungannon (Aloha)	4·82	2·00	3·37	1·52	2·31	2·03	4·22	4·18	4·51	3·74	1·18	5·27	39·15
Tyrone	Omagh (Edenfel)	5·07	3·41	3·61	1·62	2·20	2·08	3·69	5·13	4·47	3·70	1·16	5·18	41·32
"	Ston Mills (Sion House)	6·02	2·73	3·71	1·31	1·93	1·34	4·34	4·20	5·98	4·37	1·17	5·00	42·10

Table 8D. Monthly Rainfall in 1957; the Average, 1881-1915, being taken as 100

County and River Division	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		%	%	%	%	%	%	%	%	%	%	%	%	%
London.....	St. Pancras (Camden Square)	85	186	57	17	69	30	139	119	136	76	102	70	91
Kent	Dover (Waterloo Crescent)	97	236	60	30	90	11	245	104	145	32	172	56	104
"	Edenbridge (Falconhurst)	99	233	49	11	89	70	187	118	139	43	111	83	100
Sussex	Compton (Compton House)	117	231	91	7	73	73	157	116	138	57	76	87	100
"	Worthing (Beach House Park)	80	215	71	6	52	91	191	87	146	42	93	59	92
Hampshire	Southampton (East Park)	110	175	90	5	79	84	189	133	122	61	84	57	97
"	South Farnborough (R.A.E.)	68	187	66	24	66	59	178	66	151	50	112	76	91
Buckinghamshire.....	Slough (Upton)	77	170	61	17	67	33	214	92	143	72	107	73	93
Oxfordshire	Oxford (Radcliffe Met. Station)	89	173	103	24	89	98	141	165	233	71	87	103	113
Northamptonshire.....	Wellingborough (Swanspool)	71	137	120	20	88	114	127	100	246	69	82	98	105
Cambridgeshire	Cambridge (Botanic Gardens)	77	166	103	7	40	86	112	82	202	66	69	92	90
"	March	77	165	110	19	62	109	84	88	237	48	74	88	94
Essex	Hatfield Broad Oak (Barrington)	63	153	81	17	46	95	128	82	164	80	90	88	92
"	Southend (Waterworks)	64	144	57	9	82	60	113	109	158	57	108	86	88
Suffolk	Felixstowe	68	163	79	21	117	57	220	81	148	56	80	93	99
"	Lowestoft (Secondary School)	76	160	104	33	86	108	99	79	168	48	62	77	89
Norfolk.....	Bury St. Edmunds (Westley Hall) ..	78	151	93	20	69	79	131	128	228	57	79	86	100
Wiltshire	Sandringham House Gardens	114	205	123	25	79	89	77	96	193	59	60	96	98
"	Porton (C.D.E.E.)	84	175	90	22	102	84	181	153	142	74	81	84	104
"	Aldbourne (Manor House)	98	185	87	18	93	63	149	119	179	67	75	105	102
Dorset	Crech Grange	98	153	126	9	99	52	137	119	144	62	52	62	90
"	Beaminstor (East Street)	114	177	123	7	117	103	146	125	169	63	60	80	103
Devonshire, S.....	Princetown (H.M. Prison)	146	162	160	11	100	65	147	107	202	91	43	73	107
"	Teignmouth (Den Gardens)	99	215	111	3	97	60	139	93	114	52	73	56	90
Devonshire, N.	Ilfracombe (Bowling Green)	114	190	146	15	87	61	149	127	244	111	66	50	111
Cornwall.....	Bude (School House)	84	148	127	13	85	135	118	122	151	104	54	43	96
"	Penzance (Penlee Gardens)	88	160	152	31	144	88	115	146	148	71	66	82	104
"	St. Austell (Poltair Public Gdns.)...	89	155	165	18	136	160	92	123	127	65	67	59	99
"	Scilly (Tresco Abbey)	75	142	169	34	76	43	93	100	80	53	70	84	86
Somerset.....	Taunton (Vivary Park)	75	192	87	2	92	216	115	88	135	60	78	78	97
Gloucestershire	Cirencester (Royal Agric. College) ..	144	174	115	15	75	54	132	123	207	61	59	75	101
Herefordshire.....	Vowchurch (Ladywell House)	69	150	83	4	70	45	110	138	260	33	74	82	90
Shropshire	Church Stretton (Sewage Works)	82	116	95	28	70	69	171	240	282	52	94	71	112
"	Shrewsbury (Monkmoor)	54	116	95	30	74	76	151	200	293	64	75	39	105
Worcestershire.....	Malvern (Surveyor's Depot)	66	154	114	0	84	73	160	169	240	37	101	81	105
Warwickshire.....	Leamington Spa (Pump Room Gdns.) ..	68	150	130	11	54	64	147	76	225	47	71	93	92
"	Birmingham (Edgbaston Obsv.)	58	158	118	10	53	69	152	141	259	49	79	80	100
Leicestershire.....	Thornton Reservoir	84	158	124	9	65	66	111	105	286	44	85	85	98

Table 8D. Monthly Rainfall in 1957; the Average, 1881-1915, being taken as 100 (continued)

County and River Division	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		%	%	%	%	%	%	%	%	%	%	%	%	%
Peeblesshire 2	Stobo Castle	164	122	88	97	84	110	135	137	120	96	58	115	111
Berwickshire 4	Marchmont House	142	155	69	41	57	55	124	151	106	53	56	77	90
East Lothian 5	North Berwick (Gasworks)	134	203	103	104	73	53	169	135	73	41	57	107	103
Midlothian 5	Edinburgh (Blackford Hill)	169	139	77	41	76	59	171	90	75	69	102	90	98
Lanarkshire 5	Hamilton Waterworks (Townhill)	170	97	106	96	87	91	129	122	111	119	41	90	105
Ayrshire 3	Prestwick	149	89	169	128	97	111	156	130	140	130	59	69	117
" 13	Glen Afton (Ayr Sanatorium)	138	127	113	79	107	59	126	130	89	115	56	115	107
Renfrewshire 3	Greenock (Prospect Hill)	143	81	128	83	70	77	161	86	85	130	41	103	100
Buteshire 1	Rothsay (Ardencraig)	154	89	161	91	72	80	166	116	102	130	51	90	109
Argyllshire 2	Morvern (Drimmin)	167	85	116	77	45	128	123	109	78	136	62	94	103
" 8	Lochgilphead (Poltalloch)	164	95	161	67	74	124	145	108	93	167	54	89	112
" 11	Inveraray Castle Gardens	168	68	142	100	53	117	131	112	79	166	40	122	110
" 14	Islay (Eallabus)	172	86	111	75	65	96	173	99	107	121	48	94	104
" 14	Tiree Airport	137	93	140	72	110	93	140	88	79	108	49	106	101
Kinross-shire 2	Loch Leven Sluice	170	125	95	87	78	71	205	141	70	89	56	144	114
Fife-shire 3	Leuchars Airfield	152	193	78	29	65	44	191	100	75	55	55	126	99
Perthshire 1	Loch Dhu	152	92	140	73	89	65	119	89	105	121	28	119	101
" 7	Crieff (Strathearn Hydro)	171	111	144	72	108	78	154	105	112	66	30	116	105
" 14	Fincastle House	136	121	126	40	91	66	156	98	76	60	18	96	91
Angus 4	Montrose (Royal Mental Hospital)	121	140	105	44	78	72	166	143	75	46	52	112	98
Aberdeenshire 1	Braemar (Bank)	103	103	77	54	46	82	168	133	102	52	34	81	85
" 2	Dyce (Craibstone)	104	99	85	68	60	175	273	153	93	41	51	118	109
" 4	New Deer (School House)	96	77	109	74	49	124	168	146	160	63	82	128	108
Morayshire 2	Fochabers (Gordon Castle)	107	76	118	35	64	149	128	157	79	47	114	161	106
Nairnshire 2	Nairn (Achareidh)	126	94	180	40	47	112	205	187	61	67	69	124	114
Inverness-shire 2	Glenshero	160	91	105	52	62	102	140	104	84	134	27	135	103
" 6	Loch Ness (Garthbeg)	148	105	116	54	53	87	182	198	91	132	58	125	116
" 12	Loch Hourn (Kinlochourn)	164	81	92	67	61	126	124	106	115	178	41	127	110
" 17	Onich	171	74	144	83	72	119	129	114	80	192	41	115	113
" 17	Fort William (Teviot)	166	73	121	70	60	84	125	98	80	152	36	137	105
" 18	Skye (Glenbrittle)	123	92	134	92	75	118	110	94	82	135	82	78	101
" 18	Skye (Duntulm, Kilmuir)	168	82	119	88	74	125	113	133	86	146	62	115	110
Ross and Cromarty 5	Tain (Mayfield)	136	77	125	37	71	132	262	154	46	58	47	184	114
" 7	Inverbroom (Glackour)	149	83	109	56	50	113	122	179	144	147	66	152	118
" 9	Achnashellach	151	86	111	59	51	134	107	124	127	164	71	148	115
Sutherland 4	Tongue	121	70	134	51	76	153	179	184	93	91	68	140	113
" 6	Lochinver (Bank House)	158	74	104	88	88	184	129	167	132	172	86	152	128
Caithness 2	Wick Airport	125	53	153	52	64	168	153	187	130	68	68	131	113

Table 8D. Monthly Rainfall in 1957; the Average, 1881-1915, being taken as 100 (concluded)

County and River Division	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		%	%	%	%	%	%	%	%	%	%	%	%	%
Shetland Islands	Lerwick Observatory	123	138	138	100	116	141	129	105	139	159	97	99	123*
Fermanagh 1	Newtownbutler (Crom Castle)	173	90	137	79	76	66	116	123	134	151	27	111	108
Armagh 5	Armagh Observatory	181	91	104	56	102	56	127	154	157	128	35	137	113
Down 2	Seaford	179	137	152	44	110	42	140	129	186	114	78	146	123
Antrim 5	Aldergrove Airfield	135	65	91	54	77	68	150	116	190	108	33	138	104
" 5	Ballymena (Harryville)	128	73	97	61	54	118	132	81	177	112	36	127	100
Londonderry 3	Garvagh (Moneydig)	165	98	88	56	76	81	204	103	180	113	38	142	113
" 5	Londonderry (Creggan Reservoir)	143	65	78	46	57	79	176	84	190	114	33	126	101
Tyrone 3	Omagh (Edenfel)	143	114	115	62	85	74	109	120	147	101	31	122	103
England	(General Mean* 60 Stations)	91	155	97	20	82	80	141	122	187	70	75	85	†
Wales	(" " 11 ")	130	134	127	16	95	73	170	120	243	104	58	75	..
England and Wales	(" " 71 ")	97	152	102	19	84	79	146	122	196	75	72	84	..
Scotland	(" " 43 ")	147	102	117	69	74	99	152	127	99	109	36	114	..
Northern Ireland	(" " 8 ")	156	92	108	57	80	73	144	114	170	118	39	131	..

* The 'General' values given in the last five rows are obtained by taking the means of the percentage values for the stations. † See Table 10A.

9 Seasonal Rainfall 1956-57

In this section the rainfall of the winter season, October 1, 1956, to March 31, 1957, and of the summer season, April 1, 1957, to September 30, 1957, is dealt with, as well as the rainfall of the whole seasonal year, October 1, 1956, to September 30, 1957.

Table 9A contains rainfall values for each of these two seasons as percentages of the average fall for the season at each station. The table gives, in the fourth column, the corresponding percentages for each station for the whole of the seasonal year. These last figures are not always the mean of the percentages for the two seasons, but often show a bias towards the winter value rather than that of the summer. This is due to the fact that the average rainfall for the winter is, in general, greater than that for the summer.

The stations in Table 9A are, as far as possible, the same as those used in earlier volumes. The monthly percentage values for these stations are given in Table 8D and the monthly and annual values in inches are included in Table 8C. Seasonal percentage values for the general rainfall over England and Wales, Scotland and Northern Ireland commencing with October, 1920, to March, 1921, are given in Table 9B.

Over England and Wales a dry winter was followed by a wet summer for the fourth time in five seasons, including the previous seasonal year. Over Scotland and Northern Ireland the rainfall of the winter, summer and seasonal year were all above average to a remarkably uniform degree.

In the *winter half-year* October and November were dry months in all the major divisions of the United Kingdom, November especially so over England and Wales. January was slightly drier than average over England and Wales, and February drier in Northern Ireland. January was very wet over Scotland

and Northern Ireland and February similarly wet over England and Wales. Rainfall of the winter half-year was below average over much of England except parts of the south, south-west and north-west, and over much of Wales except the south-east and a small area around Lake Vyrnwy. The driest areas were in Essex, around the Humber, over the lower reaches of the Wear and Tees and over the Wirral. Much of the east of Scotland to the south of the Moray Firth, and small areas in the south-west and north-west, had less than average rainfall, with the driest area in the extreme south-east. The wettest areas were in the west where rainfall exceeded 130 per cent of average in parts of the Western Highlands. In Northern Ireland rainfall was above average in the north and south, with the driest area to the east of Lough Neagh.

The *summer half-year* opened with three dry months in all countries. April was exceptionally dry over England and Wales, but the June rainfall in Scotland was near to average. The remaining months were wet except for September in Scotland, which was a little drier than normal. June was very wet generally and September exceptionally wet over England and Wales and over Northern Ireland. The total rainfall for the six summer months was less than average over a substantial area of south-east England including the London area, and in smaller areas near the coasts of Norfolk and Yorkshire, over the Midlands and near the south coasts of England and Wales. Elsewhere in England and Wales rainfall was greater than normal with the wettest area in the west Midlands. The south-east of Scotland and an area including central districts, parts of Inverness-shire and the islands of Mull and Tiree, had rainfall below average, the driest area being in Roxburghshire. The wet areas were in the north

and south-west, with Aberdeenshire the wettest. The whole of Northern Ireland received more than average rainfall, with the driest areas in Tyrone and Fermanagh and the wettest area in the north of Co. Antrim.

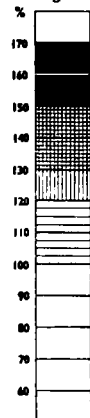
Rainfall of the *seasonal year* varied widely over England and Wales, parts of the north-west Midlands receiving more than 120 per cent of average and south-east Essex less than 80 per cent. The variation over Scotland

was somewhat less, although 120 per cent of average was exceeded in parts of Ross and Cromarty and Inverness-shire, while in the extreme south-east, mainly in Berwickshire and Roxburghshire, rainfall was less than 90 per cent of average. An even smaller variation occurred over Northern Ireland, where the seasonal rainfall ranged from rather more than 110 per cent of average in the southern counties to slightly less than 100 per cent of average in parts of Co. Antrim.

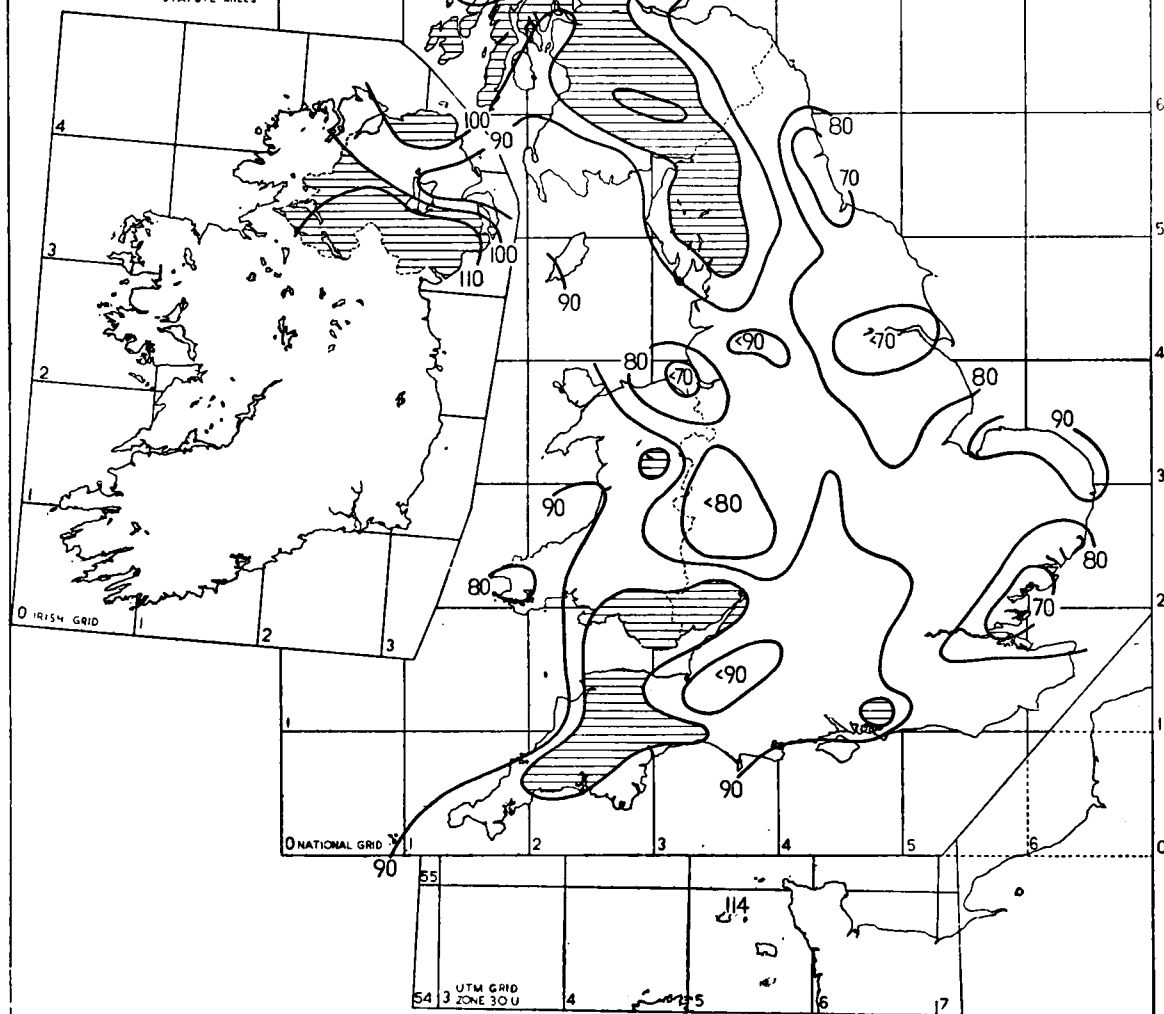


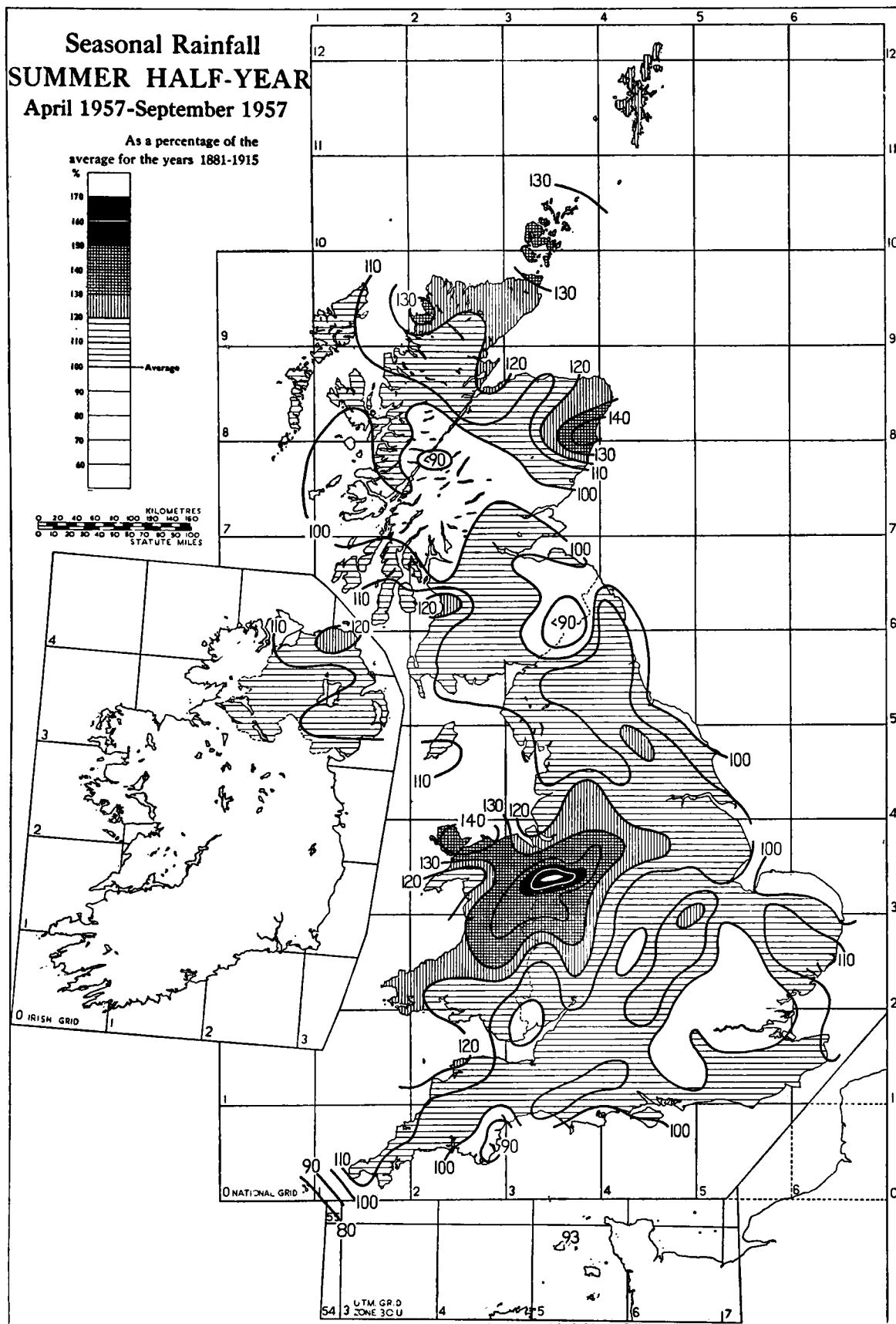
Seasonal Rainfall WINTER HALF-YEAR October 1956-March 1957

As a percentage of the
average for the years 1881-1915



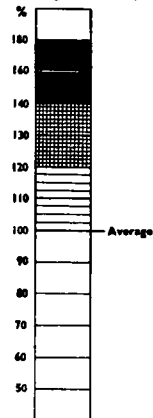
0 20 40 60 80 100 KILOMETRES
0 10 20 30 40 50 60 70 80 90 100 STATUTE MILES





Seasonal Rainfall TWELVE MONTHS October 1956-September 1957

As a percentage of the
average for the years 1881-1915



0 20 40 60 80 100 120 140 160
KILOMETRES
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES

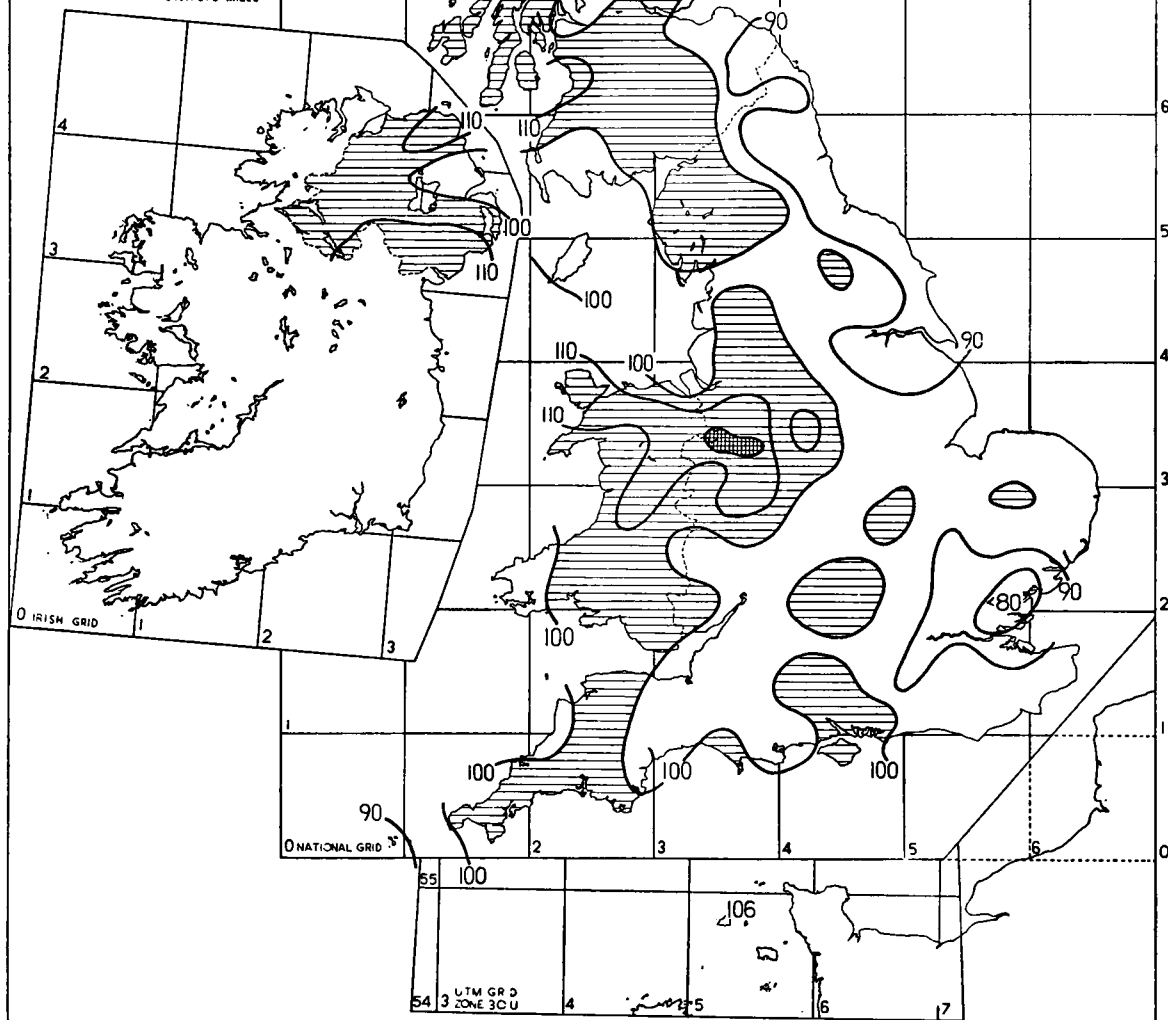


Table 9A. Seasonal Rainfall, 1956-57, as a Percentage of the Average, 1881-1915

Station†	Winter Oct. 1956- Mar. 1957	Summer Apr. 1957- Sep. 1957	Year Oct. 1956- Sep. 1957	Station†	Winter Oct. 1956- Mar. 1957	Summer Apr. 1957- Sep. 1957	Year Oct. 1956- Sep. 1957
St. Pancras (Camden Square)	87	90	88	Abergavenny (Plâs Derwen)	103	101	102
Dover (Waterloo Crescent)	84	110	95	Ystalyfera (Wern House)	102	116	108
Edenbridge (Falconhurst)	87	106	95	Cardiff (Penylan)	104	95	100
Compton (Compton House)	103	100	102	Llanddeusant (Pontcrynfe)	99	116	106
Worthing (Beach House Park)	86	101	92	Haverfordwest (Hospital Grounds)	80	123	98
Southampton (East Park)	95	107	100	Birmingham W.W. (Tyrmynydd) ..	90	136	108
South Farnborough (R.A.E.)	87	93	90	Lake Vyrnwy (Experimental Station)	104	140	118
Slough (Upton)	89	97	93	Blaenau Festiniog (Oakeley Quarry)	98	111	104
Oxford (Radcliffe Met. Station) ..	93	127	110	Aberdovey (Plâs Penhelig)	90	133	109
Wellingborough (Swanspool)	87	118	102	Llandudno (Cricket Ground)	79	147	109
Cambridge (Botanic Gardens)	87	90	89	Llanerchymedd (Llwydiarth Esgob)	97	144	117
March	84	102	93	Douglas (Borough Cemetery)	88	105	95
Hatfield Broad Oak (Barrington) ..	84	93	88	Newton Stewart (Little Barraer) ..	82	104	91
Southend (Waterworks)	65	92	78	Dumfries (Crichton Royal Institute)	100	105	102
Felixstowe	74	114	93	Eskdalemuir Observatory	112	99	107
Lowestoft (Secondary School)	91	98	94	Crailling	89	84	86
Bury St. Edmunds (Westley Hall) ..	81	114	98	Stobo Castle	106	117	111
Sandringham House Gardens	91	96	93	Marchmont House	81	95	88
Porton (C.D.E.E.)	92	117	103	North Berwick (Gasworks)	88	108	98
Aldbourne (Manor House)	92	106	98	Edinburgh (Blackford Hill)	89	93	91
Creech Grange	90	97	93	Hamilton Waterworks (Townhill) ..	105	108	106
Beaminster (East Street)	100	113	105	Prestwick	108	129	117
Princetown (H.M. Prison)	108	107	108	Glen Afton (Ayr Sanatorium)	106	103	104
Teignmouth (Den Gardens)	98	86	94	Greenock (Prospect Hill)	98	94	97
Ilfracombe (Bowling Green)	100	121	108	Rothsay (Ardencraig)	99	108	103
Bude (School House)	83	108	93	Morvern (Drimnin)	118	94	108
Penzance (Penlee Gardens)	98	115	104	Lochgilthead (Poltalloch)	105	104	105
St. Austell (Poltair Public Gardens)	104	109	105	Inveraray Castle Gardens	110	99	106
Scilly (Tresco Abbey)	90	74	84	Islay (Eallabus)	108	105	107
Taunton (Vivary Park)	88	108	96	Tiree Airport	108	98	104
Cirencester (Royal Agricultural College)	97	105	100	Loch Leven Sluice	91	115	102
Vowchurch (Ladywell House)	80	105	91	Leuchars Airfield	97	93	95
Church Stretton (Sewage Works) ..	78	147	110	Loch Dhu	103	91	98
Shrewsbury (Monkmoor)	74	141	106	Crieff (Strathearn Hydro)	109	107	108
Malvern (Surveyor's Depot)	76	125	100	Fincastle House	104	91	98
Leamington Spa (Pump Room Gardens)	93	96	94	Montrose (Royal Mental Hospital)	94	104	99
Birmingham (Edgbaston Observatory) ..	86	114	100	Braemar (Bank)	88	101	94
Thornton Reservoir	90	106	98	Dyce (Craibstone)	93	143	116
Spalding (Pode Hole)	82	109	96	New Deer (School House)	100	126	112
Skegness (Marine Gardens)	81	116	98	Fochabers (Gordon Castle)	91	109	100
Warsop (Gleadthorpe Exp. Hus. Farm)	74	121	97	Nairn (Achareidh)	117	120	119
Buxton (Terrace Slopes)	86	135	107	Glenshero	123	92	111
Birkenhead (Bidston Observatory) ..	68	115	91	Loch Ness (Garthbeg)	123	118	121
Bolton (Heaton Reservoir)	87	129	108	Loch Hourn (Kinlochourn)	119	101	113
Squires Gate (Blackpool Airport) ..	83	114	97	Onich	131	100	119
Stonyhurst College	87	121	103	Fort William (Teviot)	128	87	113
Garstang (Grizedale Reservoir)	94	109	101	Skye (Glenbrittle)	108	95	102
Wakefield (Clarence Park)	67	113	90	Skye (Duntulm, Kilmuir)	111	104	108
Hull (Pearson Park)	66	111	88	Tain (Mayfield)	106	126	115
Felixkirk (Mount St. John)	80	126	103	Inverbroom (Glackour)	119	115	117
York (Museum)	77	119	99	Achnashellach	135	102	122
Scarborough	73	97	84	Tongue	99	125	110
Middlesbrough (Albert Park)	64	97	81	Lochinver (Bank House)	110	131	118
Baldersdale (Hury Reservoir)	95	116	104	Wick Airport	109	129	118
Newcastle (Leazes Park)	62	111	86	Lerwick Observatory	118	121	119
Bellingham (Highgreen)	89	88	89	Newtownbutler (Crom Castle)	116	102	110
Ilderton (Lilburn Tower Gardens) ..	86	112	98	Armagh Observatory	118	113	116
Geltsdale	103	114	108	Seaford	116	111	113
Keswick (High Hill)	103	103	103	Aldergrove Airfield	88	112	100
Ravenglass (The Grove)	98	110	104	Ballymena (Harryville)	93	104	98
				Garvagh (Moneydig)	105	121	112
				Londonderry (Creggan Reservoir) ..	98	110	103
				Omagh (Edenfel)	114	102	108

† For Counties see Table 8D.

Table 9B. Serial Values of Seasonal Rainfall as Percentage of 1881-1915 Average
 Winter half-year: October to March. Summer half-year: April to September.
 Seasonal Year: October to September.

Oct.-Sept.	ENGLAND AND WALES			SCOTLAND			NORTHERN IRELAND		
	Winter	Summer	Year	Winter	Summer	Year	Winter	Summer	Year
1920-21 ..	77	66	72	98	87	93	116	77	98
21-22 ..	95	115	104	102	104	103	110	108	109
22-23 ..	94	104	98	88	132	107	96	116	105
23-24 ..	100	147	121	95	134	112	104	152	126
24-25 ..	113	111	112	104	109	106	101	111	106
25-26 ..	100	105	102	97	106	101	103	104	103
26-27 ..	108	145	125	105	139	120	100	107	104
27-28 ..	118	90	105	119	105	113	124	108	117
28-29 ..	89	76	83	85	106	94	99	93	96
29-30 ..	146	127	138	115	112	114	126	108	118
1930-31 ..	103	146	123	110	108	110	112	118	115
31-32 ..	75	122	96	96	105	99	86	104	94
32-33 ..	102	75	90	111	80	97	105	71	89
33-34 ..	74	89	79	77	123	97	70	116	92
34-35 ..	102	113	107	100	109	104	98	94	96
35-36 ..	131	111	122	108	90	100	117	112	114
36-37 ..	128	93	112	110	93	103	123	98	111
37-38 ..	81	91	86	84	115	98	82	106	93
38-39 ..	130	98	115	130	83	110	140	87	115
39-40 ..	119	76	99	80	100	89	120	90	105
1940-41 ..	134	89	113	102	86	95	120	80	101
41-42 ..	87	99	92	94	111	100	117	124	120
42-43 ..	97	102	99	99	122	109	94	119	106
43-44 ..	70	104	85	89	108	98	83	112	97
44-45 ..	109	104	106	118	113	116	120	112	116
45-46 ..	89	138	111	86	115	98	91	121	105
46-47 ..	122	85	105	84	112	95	97	110	103
47-48 ..	88	112	99	100	134	115	109	108	109
48-49 ..	76	77	76	107	92	100	104	81	93
49-50 ..	117	132	123	118	144	129	110	154	131
1950-51 ..	122	116	119	98	105	100	101	95	98
51-52 ..	102	104	103	102	98	100	98	82	90
52-53 ..	84	116	98	77	116	94	77	103	89
53-54 ..	81	119	99	100	121	109	102	111	106
54-55 ..	118	85	103	119	75	99	127	92	111
55-56 ..	87	120	102	91	124	105	83	115	98
56-57 ..	88	111	99	106	107	106	106	109	107
Average (in.) 1881-1915 ..	19·61	15·62	35·23	29·20	21·12	50·32	20·94	18·72	39·66

10 The Total Fall of Rain in 1957

The General Table, which forms Part II of this volume, gives the total rainfall for the year at about 5,000 stations in Great Britain and Northern Ireland. As many of these totals as practicable have been plotted on a base map on a scale of 10 miles to an inch. The distribution of rainfall has been shown on the map by isohyetal lines or lines of equal rainfall. As the distribution is affected by the orography of the country, the maps of different years resemble each other in their general features. Differences are noticeable only after detailed examination and comparison. The characteristics of a particular year are brought out better by a percentage map, such as that reproduced as a frontispiece to this volume, on which is shown the percentage ratio of the year's rainfall to the local average. The tints on this map are such that blue denotes regions where the 1957 rainfall exceeded the average for the standard period 1881-1915, while red indicates areas with rainfall below this average. Isopleths on the 1957 map are drawn through places where the values of rainfall were respectively 80, 90, 100, 110, 120 and 130 per cent of the average values.

The map reproduced as a frontispiece to this volume shows far more detail than is evident in the maps of Section 9 showing seasonal rainfall or Section 8 showing monthly rainfall. The seasonal and monthly maps are based on a limited number of data, mainly those presented in Table 9A, and are intended to give a broad indication of the main features. The annual percentage map is based on a much larger amount of data, in fact as much as can be conveniently plotted, since the annual maps, both the percentage and that

showing the rainfall in inches, are recognised and used as valuable aids in the checking of the rainfall records received. The 1957 map shows that less than 80 per cent of average occurred in small areas of Roxburghshire and on the Essex-Suffolk border. More than 130 per cent of average occurred in parts of central Lancashire, in western Sutherland and also in the Orkneys.

The smallest annual percentage shown in Tables 8D and 10B is 80 at Ross-on-Wye, Herefordshire; 128 per cent, the maximum value, was reported from Lochinver (Bank House) in Sutherland.

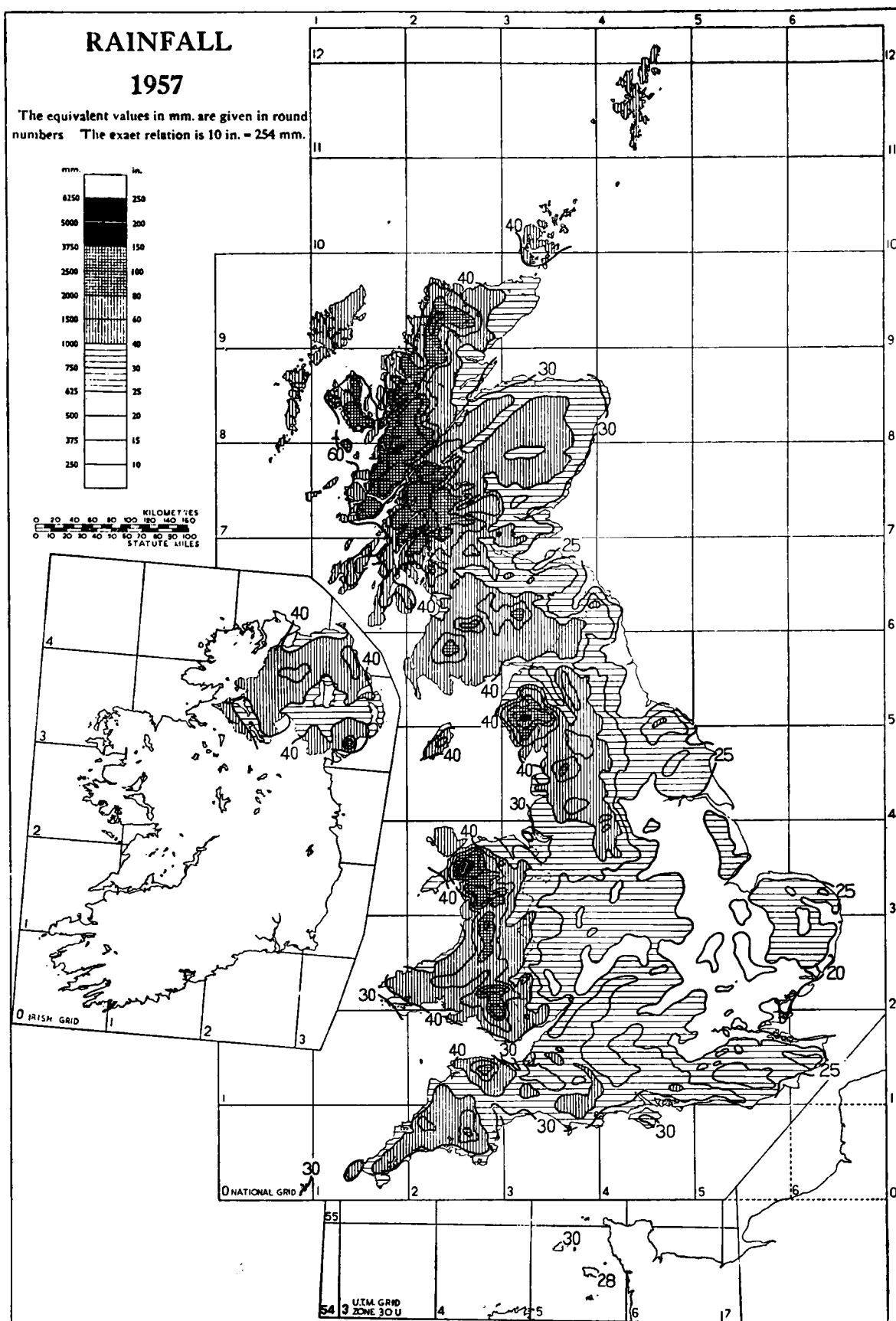
The percentage values of 215 stations are used to derive general values of rainfall for the year over the larger divisions of the country, which are set out in Table 10A.

Table 10A shows that in 1957 England had slightly less than the average rainfall by approximately .2 in., but other countries all had about 3 in. more than average.

The general distribution of the actual rainfall in 1957 as shown on the accompanying

Table 10A. General Rainfall, 1957, compared with average

Countries	No. of Stations	Average 35 years 1881-1915	1957	
			Per cent	Rainfall
England ..	122	in. 32.67	99	in. 32.5
Wales	18	50.14	108	54.3
England & Wales	140	35.23	101	35.4
Scotland ..	63	50.32	106	53.4
Northern Ireland	12	39.66	108	42.7
Whole area ..	215	40.33	103	41.4



map is similar in its main features to that of other years. Falls of less than 20 inches occurred around the Thames Estuary and also in parts of eastern England and the London area. Totals of more than 150 inches were recorded in the Western Highlands, the Lake District and in Snowdonia, and more than 100 inches in the south-west Grampians and over the mountains of south and central Wales.

Among the largest totals recorded for the year, the following are of interest:—

						<i>in.</i>
England	..	..	Cumberland, Sprinkling Tarn	..	..	171·30
Wales	..	..	Caernarvonshire, Snowdon (Crib Goch)	..	..	216·60
Scotland	..	..	Inverness-shire, Loch Quoich (Kinlochquoich)	..	..	160·83
Northern Ireland	..	..	County Down, Mourne Mts. (Lough Shannagh)	..	..	83·03

Notable among the smallest totals during the year were:—

England	..	..	Kent, Herne Bay (St. Anne's Home)	..	..	17·17
Wales	..	..	Flintshire, Rhyl (Westbourne Avenue)	..	..	26·66
Scotland	..	..	Berwickshire, Eyemouth (High School)	..	..	21·65
Northern Ireland	..	..	County Down, Donaghadee (Orlock Reservoir)	..	..	30·92

Table 10B. Rainfall of 1957 as Percentage of Average, 1881-1915*

County	Station	Per cent of Average	County	Station	Per cent of Average
ENGLAND					
Surrey ..	Reigate (Wray Park Road) ..	94	Yorks, E.R.	Holme on Spalding Moor ..	111
Kent ..	Deal and Walmer Waterworks ..	88	" ..	Lowthorpe (Woodman's Ctge.) ..	96
" ..	East Malling (Research Stn.) ..	94	" N.R.	Leyburn (Bolton Hall) ..	101
" ..	Bromley ..	97	" ..	Guisborough (Lockwood Res.) ..	84
Sussex ..	Horsham (Sewage Displ. Wks.) ..	95	Durham ..	Barnard Castle (Bowes Museum) ..	101
" ..	Eastbourne (Wilmington Sq.) ..	91	" ..	Durham (Houghall Hort. Stn.) ..	86
Hampshire ..	St. Catherine's Pt. Lighthouse ..	101	Northumb. ..	Allenheads ..	91
" ..	Portsmouth (Southsea Common) ..	90	" ..	Hallington (Fawcett) ..	96
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* See also Table 8D, pp. 88-91.

11 Evaporation and Percolation in 1957

The purpose of this section is to bring together certain groups of data which have some bearing on the subsequent history of the water that reaches the surface as precipitation. These data, derived from measurements of evaporation, percolation and drainage, were discussed in *British Rainfall* 1951 and 1952, particular attention being drawn to the nature of the instruments used and to the limitations of the measurements made. These matters are given only a brief mention in the present summary.

The 16 *evaporation gauges* are mostly of standard dimensions, 6 feet square and 2 feet deep, the rim projecting about 3 inches above the ground, as described in *British Rainfall* 1939. The 13 *percolation gauges*, grouped at four stations, are of various dimensions as given in Table 11B, and some have a surface of bare soil while others carry a crop of turf.

The 5 *drainage gauges*, grouped at two stations (Table 11C), differ from the more usual form of percolation gauge. The simple *seepage gauges* (one at Prescot and two at Lake Vyrnwy) have depths of 11 and 9 inches respectively, which are regarded as the depths of the top layers of productive soil. In the remaining two at Lake Vyrnwy, the water draining from the base of the seepage column is led to the base of a cylinder 6 feet deep through which it percolates upwards through a chalk core covered by exposed soil. The resultant drainage flows out through a pipe fixed just below the soil surface at the top of the percolation column. This combined seepage-percolation gauge was designed to simulate the processes which operate in the formation of a spring.

Data for 1957

Monthly and annual values of evaporation recorded at 16 stations in Great Britain are given in Table 11A. Lower Laithe Reservoir (for which 1956 records were incomplete) rejoins the list of stations, and values for Lound Waterworks in Suffolk are given for the first time; the other stations are as given for 1956.

New long-period averages are given in the final column since the old ones were based on records that were not homogeneous. These new averages are based on thirty years' records (1911–40) from Camden Square, Otterbourne, Kennick and Southport; 29 years from Ardsley (1911–35, 1937–40) and Harrogate (1911, 1913–40); and 28 years from Revesby (1911–29, 1932–40). They should thus be reasonably representative for the mean seasonal variation of evaporation over England, though not strictly comparable in absolute value with the mean of the 16 records for 1957. The values given in Table 11A have been printed much as received: adjustments for periods when the water in the tank was frozen have not been made owing to the lack of a firm theoretical basis for making them, but evaporation at such times is in any case likely to be small. The values for August at Kempton Park and October at Lound Waterworks have been adjusted slightly to allow for a few missing daily readings.

Evaporation over England and Wales in 1957 was probably about average or perhaps slightly higher. Except at Ormesby St. Michael, the distribution within the year shows a marked maximum in June with a sharp falling-off in July and August; this is closely associated with the variation of sunshine: June 1957 was the sunniest June over

England and Wales since at least 1909 with 143 per cent of the average, but July and August on the other hand had only 78 per cent and 85 per cent of their respective averages. The evaporation in June at Kew was the highest since records began in 1949; at Revesby it was the highest since July 1921; at Bartley it was the highest since June 1942; and at Otterbourne the highest since July 1949. The records from the two tanks at Stocks Reservoir differ by nearly 5 in.—even more in 1957 than in 1956; the difference is presumably due to the fact that site 10 is in a very exposed position, whereas site 21D is sheltered from the wind.

Percolation gauges. In Table 11B are given data for 13 percolation gauges; the list of stations is the same as in 1956 with the addition of 3 gauges at Lound Waterworks, Suffolk, data for which have been supplied by

the Engineer to the Lowestoft Water Company. The mean “inferred evaporation” for these 13 gauges in 1957 was 15·68 in., 3·72 in. less than the mean evaporation from 16 tanks. The difference is largely accounted for by the dry sunny weather of May and June when open water would continue to evaporate freely whilst percolation gauges would become dry; the difference is however less than in 1955 when it was 4·09 in.

Drainage gauges. The 1957 data for the drainage gauge at Prescott and Lake Vyrnwy are set out in Table 11C. The results from the bare soil seepage gauge at Prescott are not available. The inferred evaporation at Lake Vyrnwy differs little from that in 1956 although rainfall was 10·10 in. higher; this comparative constancy of inferred evaporation at Lake Vyrnwy was commented on in *British Rainfall*, 1956.

Table 11A. Evaporation in 1957

1957	Kew Observatory 18 ft. TQ(51)171757	Weir Wood Reservoir 225 ft. TQ(51)406354	Otterbourne (Waterworks) 112 ft. SU(41)465235	Kempton (Waterworks) 40 ft. TQ(51)111710	Harpenden (Rothamsted) 420 ft. TL(52)132134	Lound (Pumping Stn.) 33 ft. TG(63)500009
	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>
January .. .. .	.55	.14	.16	.23	.21	.20
February .. .. .	.57	.52	.48	.59	.62	.37
March	1.24	.84	.89	1.12	1.18	.98
April	2.99	2.19	2.55	2.59	2.34	2.34
May	4.10	2.84	3.01	3.56	3.31	3.05
June	5.91	4.28	4.41	5.41	4.86	3.69
July	3.64	3.25	3.27	4.04	2.98	3.19
August	3.21	2.81	2.73	3.46	2.92	2.87
September	1.78	1.57	1.67	1.91	1.92	1.65
October .. .. .	.92	.69	.74	1.00	.92	.85
November .. .. .	.63	.40	.62	1.12	.75	.53
December .. .. .	.23	c. .05	.15	.15	.15	.11
Year	25.77	19.48	20.68	25.18	22.16	19.83
Average	—	—	19.87	—	—	—
Difference	—	—	+ .81	—	—	—

1957	Ormesby St. Michael 21 ft. TG(63)468152	Barrow Gurney Reservoir 300 ft. ST(31)537679	Bartley Reservoir 611 ft. SP(42)010812	Revesby Reservoir 124 ft. TF(53)303634	Slaidburn 10 (Stocks Res.) 657 ft. SD(34)719551	Slaidburn 21D (Stocks Res.) 629 ft. SD(34)716549
	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>
January .. .. .	.14	.04	.19	.06	.54	.32
February .. .. .	.15	.35	.25	.23	.45	.40
March .. .. .	.38	.79	.82	1.02	.98	.73
April	1.66	2.69	1.81	1.64	2.27	1.84
May	2.55	4.01	2.54	2.50	3.50	2.80
June	2.13	5.43	3.70	3.56	4.91	3.94
July	2.84	4.12	2.39	2.40	3.07	2.39
August	2.39	3.62	2.34	2.04	2.28	1.96
September	1.77	1.87	1.22	1.25	2.04	1.55
October .. .. .	.92	.83	.56	.67	1.22	.78
November .. .. .	.58	.51	.55	.45	.67	.43
December .. .. .	.36	c. .12	.37	.08	.32	.18
Year	15.87	24.14	16.74	15.90	22.25	17.32
Average	—	—	—	14.33	—	—
Difference	—	—	—	+ 1.57	—	—

1957	Ardsley Reservoir 392 ft. SE(44)287248	Haworth (Lower Laithe) 772 ft. SE(44)015367	Harrogate (Harlow Hill) 549 ft. SE(44)290542	Lake Vyrnwy Exper. Stn. 995 ft. SJ(33)017188	Mean of 16 records	Long-period Average
	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>
January .. .. .	.42	c. .24	.47	.28	.23	.13
February .. .. .	.41	c. .02	.23	.65	.39	.33
March .. .. .	.84	.52	.76	.66	.86	.86
April	1.55	1.62	1.71	1.95	2.11	1.66
May	1.77	2.75	2.89	3.09	3.02	2.58
June	3.16	3.82	4.11	4.16	4.22	3.18
July	2.45	1.90	2.67	2.49	2.94	3.12
August	1.85	1.71	2.34	2.10	2.54	2.53
September	1.19	1.14	1.87	1.12	1.59	1.66
October .. .. .	.85	.22	1.12	.66	.81	.85
November .. .. .	.52	.12	.31	.36	.53	.33
December .. .. .	.39	c. .22	.19	.24	.16	.14
Year	15.40	13.32	18.67	17.76	19.40	17.37
Average	—	—	19.81	—	—	—
Difference	—	—	- 1.14	—	—	—

NOTE.—In the Table "c" indicates an excess of condensation over evaporation.

Table 11b. Rainfall, Percolation and Inferred Evaporation in 1957

Station	Farlington, Hants				Rothamsted, Herts		Fleam Dyke, Cambs		Lound, Suffolk			Harrogate, Yorks
Gauge: size depth core	36-in. diameter				$\frac{1}{1000}$ acre		$\frac{1}{1000}$ acre		15-in. diameter			3 ft. x 3 ft.
	24 in. Chalky Marl**	36 in. Sand	36 in. Chalk	36 in. Chalk	20 in. Soil	60 in. Soil	36 in. Chalk	36 in. Chalk	11 in. Soil	36 in. Soil	36 in. Gravel	36 in. Soil
	Rain				Rain		Rain		Rain			Rain
January ..	in. 2.41	in. 1.93	in. 1.56	in. 1.60	in. 1.33	in. .93	in. .89	in. .60	in. 1.29	in. .90	in. .91	in. 1.76
February ..	4.46	4.13	4.27	4.51	3.04	2.64	1.40	1.17	2.10	1.79	2.01	2.27
March ..	2.00	1.02	1.04	1.22	1.18	.27	.76	.19	1.64	.65	.91	2.31
April ..	.20	.01	.03	.06	.29	.00	.14	.04	.63	.01	.13	.34
May ..	1.00	.00	.00	.00	1.28	.00	.51	.00	1.43	.01	.00	1.19
June ..	1.55	.00	.00	.00	2.29	.05	1.79	.00	2.69	.07	.00	1.59
July ..	3.92	.00	.00	.00	2.51	.36	2.74	.46	2.47	.05	.01	2.74
August ..	2.25	.00	.00	.00	2.14	.64	2.13	.56	2.49	.12	.01	5.82
September ..	3.30	.00	.00	.00	3.07	1.05	3.40	1.28	3.32	.37	.00	4.05
October ..	1.97	.09	.00	.00	2.38	1.25	1.84	.84	1.30	.39	.00	3.30
November ..	2.71	2.15	.41	.00	2.06	1.74	1.67	1.55	2.00	1.50	1.41	1.90
December ..	2.22	1.75	1.63	.80	2.25	1.78	1.87	1.42	2.00	1.75	1.58	2.85
Year ..	27.99	11.08	8.94	8.19	23.82	10.71	19.14	8.11	23.36	7.61	7.08	30.12
Inferred Evaporation												
		16.91	19.05	18.07		13.11		11.03		15.75	16.28	
				19.80		12.81		12.05			16.58	
												12.40

* Through bare unworked soil.

** Depths include 12 in. of top soil and turf.

|| Depths include 6 in. of top soil and turf.

‡ Through turfed soil.

Table 11C. Drainage Observations in 1957

1957	Prescot, Lancashire		Lake Vyrnwy, Montgomeryshire				
	Rainfall	Seepage* Gauge	Rainfall	Seepage* Gauges		Percolation† Gauges	
		Turfed Soil		No. 1 Bare Soil	No. 2 Turfed Soil	No. 3 Grass covered over chalk	No. 4
	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>
January	1·63	1·14	9·11	8·97	9·18	8·91	8·55
February	1·91	1·34	5·70	5·47	5·60	5·35	5·34
March	2·66	1·76	7·03	6·06	6·45	5·58	5·58
April	·44	·00	·51	·01	·02	·01	·01
May	1·40	·00	3·35	1·70	1·71	1·50	1·50
June	1·68	·00	1·78	·10	·03	·00	·00
July	4·35	·93	8·12	5·64	4·96	4·14	4·53
August	5·29	2·75	8·21	6·51	6·41	6·14	6·33
September	5·98	4·14	9·18	8·20	8·48	8·29	8·37
October	3·70	2·80	6·65	5·94	6·04	6·06	5·97
November	1·35	1·03	2·80	2·78	2·78	2·84	2·80
December	3·21	2·74	5·79	5·61	5·61	5·79	5·36
Year	33·60	18·63	68·23	56·99	57·27	54·61	54·34
Soil Evaporation	...	14·97	...	11·24	10·96	13·62	13·89

* The receiving surface of the Seepage gauge is ten times the receiving surface of a 5-inch diameter rain-gauge.

† The receiving surfaces of the Percolation gauge are together thirteen times the receiving surface of a 5-inch diameter rain-gauge.

METEOROLOGICAL OFFICE

BRITISH RAINFALL, 1957

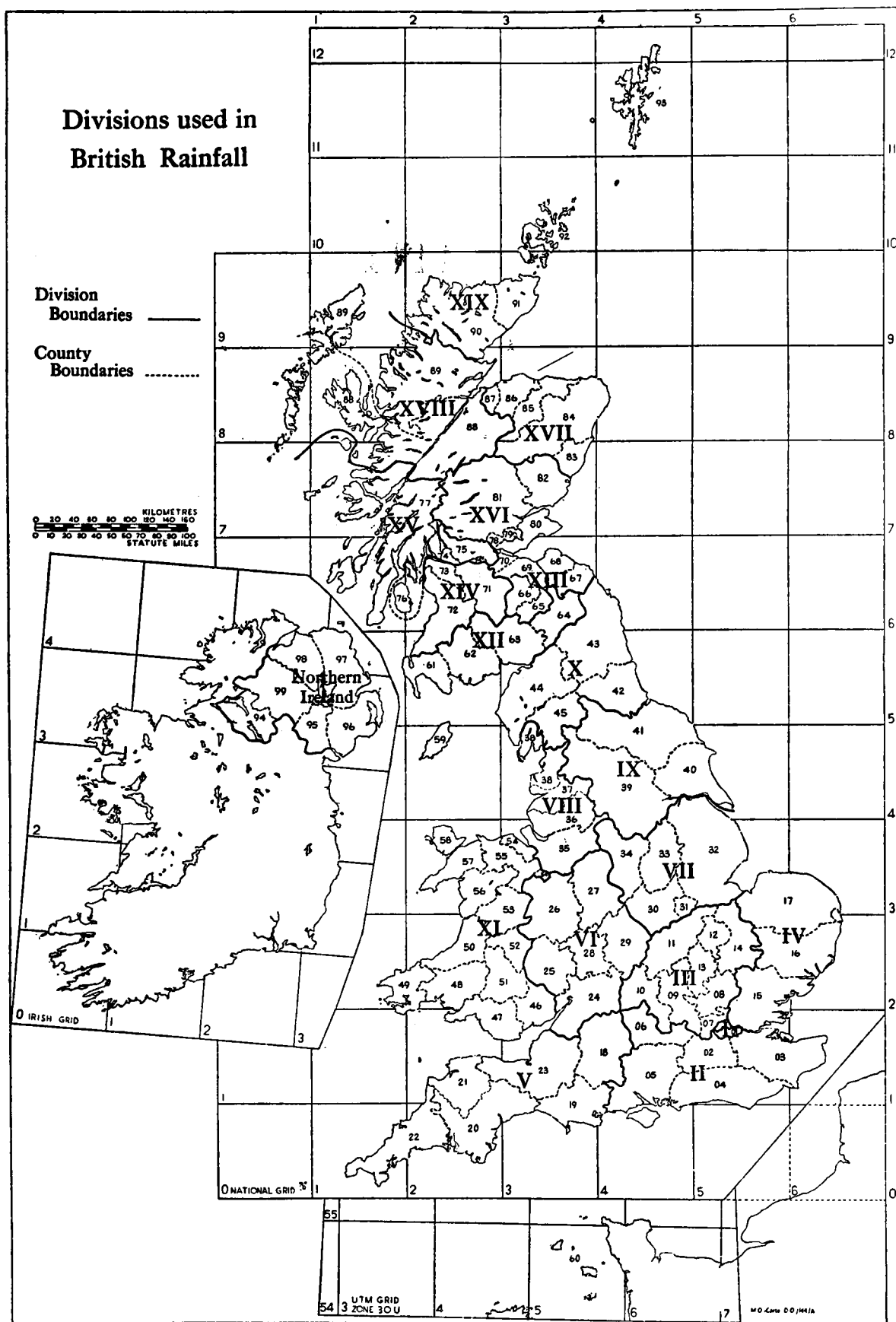
PART II

General Table of Total Rainfall in 1957

at Stations in Great Britain and Northern Ireland with the names
of the Observers or other Authorities
for the Observations

M.O. 633a

AIR MINISTRY



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General Table of Total Rainfall in 1957

EXPLANATORY NOTE

The Divisions of Great Britain in the General Table are the same as those adopted by the Registrars-General of England and Scotland. They are shown on the map on page 110, with an index on page 111.

The counties are divided up into numbered areas, corresponding to the river-basins. An account of these river-divisions for England and Wales was given in a special article in Part I of *British Rainfall*, 1910 (pp. 37-66), and a similar article on the river-divisions of Scotland and Ireland appeared in Part I of *British Rainfall*, 1911 (pp. 40-72), with detailed maps showing all the river-divisions in each Division. Lists were also included showing the various river-divisions in each of the main catchment areas over the British Isles. The areas of some river basins have been redetermined since these lists were first published. The sequence of river divisions in Great Britain proceeds anti-clockwise from the Solway Firth. For example, in the West Riding of Yorkshire there are four divisions for rivers flowing to the Irish Sea, followed by eight divisions for rivers tributary to the Humber. To the names of river-divisions "& C" is added to indicate "and other streams flowing into the sea," while "& c" means "and some land draining to the main river."

An index of River Basins, indicating the various river-divisions in each county included in the main river-basins of the British Isles, was included after this Explanatory Note in *British Rainfall*, 1937 and 1938.

The stations in each river-division are arranged nearly in the order of their latitude from South to North. For convenience, the first name defining a station is that of a place which can be found on any large scale map; occasionally it is in an adjoining county. The second name is added to fix the site of observation more closely, e.g. "Royston (Therfield Rectory)" means Therfield Rectory, near Royston. There is an exception where the position of stations on open moors can be related better to a waterworks undertaking and in these instances the authority is given initially.

Stations the names of which are printed in small capitals, e.g. KENSINGTON PALACE, are climatological stations reporting to the Meteorological Office.* For the majority of these a summary of the climatological observations is printed in the *Monthly Weather Report*, and the name in small capitals is that used in that publication.

In some cases the records have been received from a local rainfall organization. This has been indicated by a footnote.

The letter D signifies that daily observations have been received and are complete for the year; d, that less complete daily records have been received; w indicates that weekly readings have been received, and M that the gauge is read only once a month, usually on the 1st.

(R) denotes that the gauge is a mechanical one the correct reading of which depends on the mechanism being in working order.

* In the case of Division I small capitals are also used to indicate the names of London Boroughs.

The use of mechanical gauges for measuring the total rainfall is not recommended by the Meteorological Office and the number of records marked (R) is therefore small.

(+A) denotes that the amount of rainfall is taken from an ordinary gauge but that the equipment also includes an autographic instrument.

Gauges which have been inspected and found to be over-exposed on moorland have been so marked. It is likely that there are other gauges (notably some of those at light-houses) which are also over-exposed.

A column giving the annual average rainfall expressed to the nearest tenth of an inch has been included since 1926. The averages are printed in ordinary type if they are either the mean of the annual values for the standard period 1881 to 1915, or, with shorter records, if they have been reduced by accepted methods to the standard period. In such cases all the available information has been used in the computation of the averages, means for stations with short records being weighted to the standard period 1881 to 1915 by com-

parison with nearby stations with records complete from 1881 to date. Averages determined by authorities other than the Meteorological Office are printed in italics, since they may subsequently be revised. The average is also given in italics if it is the mean for twenty or more years other than the standard period or if the mean has been weighted to some other period. Averages for the standard period of 35 years, 1881 to 1915, are always preferred for entry in the table.

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

A note of interrogation (?) implies doubt, not necessarily error. The absence of information is indicated by ...

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Carmarthenshire 192	Glamorgan 190	Radnorshire 195

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Aberdeenshire 221	East Lothian 205	Peeblesshire 204
Angus 220	Fifeshire 216	Perthshire 217
Argyllshire 213	Inverness-shire 223	Renfrewshire 211
Ayrshire 209	Kincardineshire 220	Ross and Cromarty 225
Banffshire 222	Kinross-shire 216	Roxburghshire 203
Berwickshire 205	Kirkcudbrightshire 201	Selkirkshire 203
Buteshire 213	Lanarkshire 207	Shetland Islands 228
Caithness 227	Midlothian 205	Stirlingshire 212
Clackmannanshire 216	Morayshire 222	Sutherland 227
Dunbartonshire 212	Nairnshire 222	West Lothian 206
Dumfriesshire 202	Orkney Islands 228	Wigtownshire 201

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Antrim 230	Fermanagh 228
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England and Wales

DIVISION I—LONDON (Area 117 sq. mi.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957		
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
1.—THAMES. Right Bank Tributaries. 67 sq. mi.					ft.	in.	in.		
BERMONDSEY									
D	Southwark Park	.. ..	London County Council	TQ(51)353791	9	24.4	23.00	147	112
LAMBETH									
D	Brockwell Park	.. ..	London County Council	TQ(51)315741	144	23.8	19.51	151	107
D	Brixton Hill Reservoir	.. ..	Metropolitan Water Board	TQ(51)304743	121	23.9	20.04	143	107
BATTERSEA									
d	Battersea Park	.. ..	London County Council	TQ(51)275773	13	23.2	24.28	...	111
WANDSWORTH									
D	Tooting Bec (Moring Road)	.. ..	H. J. Lewis, Esq.	TQ(51)284714	150	...	22.09	158	113
D	Streatham Hill Reservoir	.. ..	Metropolitan Water Board	TQ(51)306732	202	23.3	20.61	142	102
D	Putney Heath Reservoir	.. (+A)	Metropolitan Water Board	TQ(51)234736	184	...	23.91	161	108
D	Streatham (Furzedown Rec. Ground)	.. ..	P. V. Marchant, Esq., C.E.	TQ(51)286712	89	24.7	22.02	153	116
D	Southfields (Coronation Gardens)	.. ..	P. V. Marchant, Esq., C.E.	TQ(51)251734	37	23.6	23.56	150	104
d	Dulwich (Belair)	.. ..	J. J. Heasman, Esq.	TQ(51)329732	150	...	22.67	157	110
CAMBERWELL									
D	Nunhead Reservoir	.. ..	Metropolitan Water Board	TQ(51)355746	175	...	20.51	147	117
DEPTFORD									
D	Telegraph Hill	.. ..	London County Council	TQ(51)357761	150	...	21.19	158	115
D	Waterworks	.. ..	Metropolitan Water Board	TQ(51)375766	20	23.0	20.09	135	105
GREENWICH									
D	Deptford (Pumping Station)	.. (+A)	London County Council	TQ(51)377773	15	22.4	19.48	145	103
D	Blackheath (Hassendean Road)	.. ..	Miss D. Norton		100	...	21.08	151	115
D	GREENWICH (Nat. Maritime Museum)	(+A)	Director, for M.O.	TQ(51)387776	24	...	20.41	158	107
LEWISHAM									
d	Forest Hill Reservoir	.. ..	(+A) Metropolitan Water Board	TQ(51)352736	339	...	20.98	...	...
WOOLWICH									
d	Eltham (High Street)	.. ..	(+A) Metropolitan Water Board	TQ(51)432745	245	23.2	21.52	...	...
2.—THAMES. Left Bank Tributaries. 50 sq. mi.									
KENSINGTON									
D	Holland House	.. ..	London County Council	TQ(51)249797	68	23.9	22.10	154	105
d	Campden Hill Reservoir	.. (+A)	Metropolitan Water Board	TQ(51)250800	138	24.5	21.43	137	108
D	KENSINGTON Palace	.. ..	(+A) Ministry of Works, for M.O.	TQ(51)259801	80	24.2	21.62	154	110
HAMMERSMITH									
D	Pumping Station	.. ..	(+A) London County Council	TQ(51)232782	19	23.2	21.07	157	105
FULHAM									
D	Bishop's Park	.. ..	(+A) Borough Engineer	TQ(51)241764	15	22.6	22.42	158	112
CHELSEA									
D	Physic Garden	.. ..	Curator	TQ(51)277778	20	23.4	21.89	152	110
D	College of S. Mark & S. John	.. ..	C. E. Fitchett, Esq.	TQ(51)259773	13	...	21.11	147	109
WESTMINSTER									
D	Western Pumping Station	.. (+A)	London County Council	TQ(51)286781	16	...	21.60	133	103
D	Buckingham Palace	.. ..	Mr. F. C. Nutbeam	TQ(51)287793	35	23.5	21.30	145	107
D	ST. JAMES'S PARK	.. ..	(+A) Ministry of Works, for M.O.	TQ(51)299799	27	22.4	21.30	151	116
ST. MARYLEBONE									
D	REGENT'S PARK	.. ..	Ministry of Works, for M.O.	TQ(51)283826	129	...	22.43	131	103
HAMPSTEAD									
D	OBSERVATORY	.. ..	(+A) Hampstead Scientific Society (E. L. Hawke, Esq., M.A.)	TQ(51)262863	450	26.3	24.33	161	113
D	Golders Hill Park	.. ..	London County Council	TQ(51)255870	350	26.2	24.05	156	115

§ Turf wall round gauge.

DIVISION I—LONDON—(contd.)

STATIONS	AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
		National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
2.—THAMES. Left Bank Tributaries—(contd.)			ft.	in.	in.		
ST. PANCRAS							
D CAMDEN SQUARE (+A)	Royal Meteorological Soc.	TQ(51)296846	110	24.5	22.35	154	109
STOKE NEWINGTON							
D New River Filter Beds.. ..	Metropolitan Water Board	TQ(51)319868	101	23.1	22.08	138	112
D New River Res. (Lordship Rd.)	(+A) Metropolitan Water Board	TQ(51)325874	105	23.5	20.92	142	109
HACKNEY							
D Clapton Pond (+A)	Borough Engineer	TQ(51)358844	68	22.8	22.24	159	116
FINSBURY							
d New River Head	Metropolitan Water Board	TQ(51)312827	104	...	21.31	...	...
BETHNAL GREEN							
d Victoria Park	London County Council ..	TQ(51)355835	43	23.1	21.84	121	105
POPLAR							
D Isle of Dogs (Island Gardens)	London County Council ..	TQ(51)384783	18	21.9	19.04	130	97
d Old Ford (Pumping Station)	Metropolitan Water Board	TQ(51)374839	18	22.9	21.52	153	124
d Old Ford (Penstock House) ..	London County Council ..	TQ(51)369839	39	22.4	19.63	142	102
WOOLWICH							
D Barking Outfall	London County Council ..	TQ(51)452818	24	20.8	20.15	137	96

DIVISION II—SOUTH-EASTERN COUNTIES

SURREY. (Area, 725 sq. mi.)

1.—ARUN. 45 sq. mi.							
D Hambledon (Vann Pumping Station)	Guildford & Godalming W.Bd.	SU(41)978380	200	...	29.43	162	133
2.—MEDWAY. 50 sq. mi.							
D Dormans Park (Chartham Park) ..	I. D. Margary, Esq. ..	TQ(51)382407	270	31.2	31.04	169	131
D Dormans Park (Yew Lodge) ..	Mrs. I. D. Margary ..	TQ(51)382414	260	30.6	30.66	172	124
D Lingfield (Sewage Works) .. (+A)	Godstone R.D.C.* ..	TQ(51)384450	155	28.2	26.77	155	114
D Limpsfield (Paines Hill)	East Surrey Water Co. ..	TQ(51)412515	310	...	27.65	154	128
D Limpsfield & Oxted Sewage Wks. (+A)	Godstone R.D.C.* ..	TQ(51)398501	236	...	26.42	167	132
M Limpsfield (Kent Hatch Reservoir) ..	East Surrey Water Co. ..	TQ(51)436515	664	...	28.40	...	...
3.—THAMES. Darent. 22 sq. mi.							
D Godstone (Pumping Station)	East Surrey Water Co. ..	TQ(51)352522	353	...	26.37	152	118
D Westwood (Pumping Station)	East Surrey Water Co. ..	TQ(51)425541	418	28.5	27.91	140	113
D Warlingham Park Hospital	Croydon Corporation ..	TQ(51)373595	600	32.0	27.97	155	125
D Addington (Hares Bank Pump. Stn.)	Croydon Corporation ..	TQ(51)370627	331	28.4	26.87	174	123
D Addington (Abbotswood)	H. C. Hawkins, Esq. ..	TQ(51)375646	390	...	25.30	144	116
D ADDINGTON Hills Reservoir	Croydon Corporation ..	TQ(51)352643	472	27.9	24.97	163	122
4.—THAMES. Wandle. 71 sq. mi.							
D Caterham (Dome Hill Peak)	F. A. Reynolds, Esq. ..	TQ(51)331543	650	...	27.31	163	128
D Kingswood (Margery Hall Res.) ..	Sutton District Water Co.	TQ(51)252526	691	30.2	30.42	173	137
D Kingswood (The Chase)	H. J. Gosney, Esq. ..	TQ(51)255564	550	...	28.41	181	128
D Woldingham Reservoir	East Surrey Water Co. ..	TQ(51)379549	841	32.9	27.69	...	...
D Caterham Reservoir	East Surrey Water Co. ..	TQ(51)333550	704	32.5	27.80	161	128
D Caterham (Alderstead Heath) (+A)	Coulsdon & Purley U.D.C.	TQ(51)302550	577	31.4	28.97	180	133
D Chelsham & Woldingham W.W. ..	East Surrey Water Co. ..	TQ(51)386552	478	32.5	28.76	157	128
D Caterham (White Knobs Way) ..	Miss V. K. Isaac ..	TQ(51)345547	500	32.8	30.47	190	164
D Banstead (Burgh Heath Reservoir) ..	Sutton District Water Co.	TQ(51)237581	582	30.8	28.57	166	133
D Chipstead (How Green Reservoir) ..	Sutton District Water Co.	TQ(51)283581	528	31.1	26.95	165	126
D Coulsdon (The Vale)	H. E. W. Hollobone, Esq.	TQ(51)302604	318	...	26.42	172	129

* Per Surrey County Council.

DIVISION II—SOUTH-EASTERN COUNTIES—(contd.)

STATIONS	AUTHORITIES	Rain-gauge site		Average Rain- fall	1957		
		National grid reference	Altitude		Rain- fall	Days with ·01 in. or more	Days with ·04 in. or more
SURREY—(contd.)			ft.	in.	in.		
4.—THAMES. Wandle—(contd.)							
D Kenley (Refuse Disposal Works) (+A)	Surveyor	TQ(51)335593	286	29.7	27.18	160	121
D Coulsdon (Midday Sun Allotments.) (+A)	Coulsdon & Purley U.D.C.*	TQ(51)294587	325	...	27.14	170	128
D Woodcote Park Golf Club .. (+A)	Coulsdon & Purley U.D.C.*	TQ(51)290603	450	28.1	26.13	177	129
D Purley (Woodcote Valley Road) ..	C. Stuart Bailey, Esq. ..	TQ(51)304612	310	29.5	24.70	162	118
D Purley (Pumping Station)	East Surrey Water Co. ..	TQ(51)312614	214	29.3	24.97	170	124
D Sanderstead	M. J. Rawlinson, Esq. ..	TQ(51)335617	408	...	27.13	166	121
D Purley (Pampisford Road)	C. Knight, Esq.	TQ(51)302608	250	...	25.64	...	...
D Sanderstead (Beechwood Road) ..	G. M. Davies, Esq. ...	TQ(51)332628	320	...	25.54	164	116
D Purley (Oaks Depot) (+A)	Coulsdon & Purley U.D.C.*	TQ(51)325629	190	...	24.45	174	117
D CROYDON Airport (+A)	Meteorological Office ..	TQ(51)312633	201	26.7	22.64	156	113
D Carshalton (Pumping Station) ..	Surveyor, U.D.C.	TQ(51)278663	84	25.9	21.74	156	115
D Beddington (Sewage Farm)	Croydon Corporation ..	TQ(51)303661	129	24.5	21.38	168	107
D Beddington Park (+A)	Borough Council*	TQ(51)297654	108	24.1	22.15	161	110
D Croydon (Northampton Road) ..	Mrs. Vera Higgins	TQ(51)342658	210	26.9	20.86	162	107
D Mitcham (London Road) (+A)	Mitcham Borough Council*	TQ(51)278701	62	22.6	22.62	167	113
D Wimbledon (Durnsford Road) ..	T. Webster, Esq., C.E.* ..	TQ(51)258719	58	22.6	22.37	153	106
5.—THAMES. Mole & c. 229 sq. mi.							
D HORLEY (Worth Park Nurseries) ..	F. M. Gurteen, Esq. ..	TQ(51)297413	195	...	27.75	156	117
D Horley (Tinsley Sewage Works) (+A)	M. Milne, Esq., B.Sc. ..	TQ(51)290402	210	...	29.14	157	125
D Horley (Yew Trees)	D. Macleod, Esq.	TQ(51)280440	180	...	27.82	170	120
D Ranmore (Denbies)	Mr. S. C. Westbrook ..	TQ(51)148505	620	32.2	30.39	172	133
D Dorking (Pixham Lane S. Wks.) (+A)	Dorking U.D.C.*	TQ(51)177506	138	29.8	26.45	154	122
D Earlswood (Sewage Farm) (+A)	G. G. Sanderson, Esq., C.E.*	TQ(51)274484	196	27.2	25.38	156	118
D Bletchingley (St. Catherine's School) ..	Headmaster	TQ(51)331506	470	...	28.12	159	128
D Redhill (London Road)	East Surrey Water Co. ..	TQ(51)281512	270	28.4	27.42	173	125
D Reigate (Wray Park Road)	W. J. MacAndrew, Esq. ..	TQ(51)262511	330	29.8	28.00	164	123
D Reigate (Castle Grounds)	G. G. Sanderson, Esq., C.E.	TQ(51)253504	320	29.3	27.87	150	121
D Reigate (Clifton's Lane)	East Surrey Water Co. ..	TQ(51)239512	278	...	27.25	...	...
D Merstham (Gatton Point)	C. F. Bull, Esq.	TQ(51)283521	300	29.2	27.52	176	123
D Merstham (Sewage Works)	G. G. Sanderson, Esq., C.E.	TQ(51)295526	266	...	26.36	153	124
D MICKLEHAM (Juniper Hall)	C. Promotion Field Studies	TQ(51)173527	179	...	25.35	144	118
D Gt. Bookham Reservoir	East Surrey Water Co. ..	TQ(51)146527	462	...	28.20	...	...
D Effingham Reservoir	East Surrey Water Co. ..	TQ(51)119527	363	29.3	29.14	...	...
D Headley Reservoir	East Surrey Water Co. ..	TQ(51)207527	629	32.0	29.60	164	133
D Merstham (Merstham Lodge)	J. F. E. Goad, Esq. ..	TQ(51)285547	500	...	29.81	186	134
D Leatherhead (Elmer Softening Wks.) (+A)	East Surrey Water Co. ..	TQ(51)160557	168	...	25.67	160	113
D Leatherhead (Tyrrells Wood)	E. H. Cutbill, Esq. ..	TQ(51)186553	410	...	25.81	...	...
D Tadworth (Pumping Station)	Banstead U.D.C.	TQ(51)223569	405	...	26.29	169	127
D Ashstead (Park Lane)	G. R. Crompton, Esq. ..	TQ(51)194575	318	...	25.30	173	119
D Leatherhead (Sewage Works)	F. J. Southam, Esq.* ..	TQ(51)148578	104	25.9	25.37	161	118
D Epsom (Downs Road)	Borough Water Engineer	TQ(51)217588	400	...	24.08	164	114
D Cobham (Towngate)	E. Boughton, Esq. ..	TQ(51)123599	160	...	23.96	150	114
D Epsom College	S. A. Weare, Esq.	TQ(51)223599	300	26.9	23.06	168	114
D Cobham (Sewage Works)	Esher U.D.C.	TQ(51)100608	71	...	23.45	179	113
D Banstead (Green Curve)	J. Tilley, Esq.	TQ(51)245599	450	...	25.66	175	123
D Epsom (Sewage Farm)	Surveyor*	TQ(51)207620	125	...	22.60	163	111
D Epsom (Waterworks)	Borough Water Engineer	TQ(51)211612	150	...	23.26	165	116
D Whiteley Village	Whiteley Homes Trust ..	TQ(51)091624	190	24.3	22.72	178	116
D Sutton (Waterworks)	Sutton District Water Co. ..	TQ(51)263642	161	25.4	22.54	158	119
D Sutton (Sewage Works) (+A)	N. H. Michell, Esq., C.E.*	TQ(51)250657	99	24.7	22.01	171	114
D Weybridge (Weyland S. Wks.)	(+A) Walton & Weybridge U.D.C.*	TQ(51)126657	50	22.8	21.35	158	111
D Esher (Sewage Works) (+A)	Esher U.D.C.*	TQ(51)139661	42	...	22.16	161	111
D Esher (Penlea)	P. W. Partridge, Esq. ..	TQ(51)140663	35	...	22.17	...	...

!! Gauge Over-sheltered.

* Per Surrey County Council.

DIVISION II—SOUTH-EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
SURREY—(contd.)				ft.	in.	in.		
5.—THAMES. Mole & c.—(contd.)								
D	Worcester Park (Sewage Wks.)	(+A) N. H. Michell, Esq., C.E.*	TQ(51)229668	68	24.4	23.35	163	119
D	Old Malden (Sports Ground)	(+A) Malden & Coombe B.C.*	TQ(51)219669	64	24.3	23.40	154	120
D	Surbiton (Seething Wells)	Metropolitan Water Board	TQ(51)173671	34	24.5	21.30	146	112
D	Surbiton (Sewage Disp. Works)	(+A) Borough Engineer*	TQ(51)194681	51	23.1	23.18	167	112
D	West Molesey (Walton Works)	Metropolitan Water Board	TQ(51)117685	35	23.1	21.79	144	103
D	New Malden (Sewage Works)	(+A) Malden & Coombe B.C.*	TQ(51)197685	51	22.8	22.50	154	107
D	||New Malden (Acacia Grove)	A. C. Josling, Esq.	TQ(51)211687	50	...	24.82	175	122
D	Morden Hall	(+A) W. S. Scott, Esq., B.Sc. (Eng.)	TQ(51)260686	117	...	23.73	161	118
D	Kingston-on-Thames (Dickering Rd.)	C. R. Finch, Esq.	TQ(51)202692	44	...	23.30	156	106
D	Merton (Joseph Hood Rec. Ground)	W. S. Scott, Esq., B.Sc. (Eng.)	TQ(51)240688	48	23.5	23.33	180	122
D	Merton Park (Mostyn Road)	A. T. Bench, Esq.	TQ(51)249688	55	...	24.88	175	127
D	New Malden (High Drive)	Mrs. Ben. G. Brame	TQ(51)206696	60	24.1	23.90	169	109
D	Kingston (Canbury Gardens)	(+A) G. C. Stedman, Esq.*	TQ(51)179700	23	22.7	24.71	159	112
D	||Raynes Park (Cottenham Pk. P.S.)	(+A) T. Webster, Esq., C.E.*	TQ(51)237695	50	23.9	23.11	175	114
D	New Malden (Kingston Vale)	(+A) Malden & Coombe B.C.*	TQ(51)212712	47	...	25.84	152	117
D	Richmond (Terrace Gardens)	G. Humphreys, Esq.		29	23.5	23.82	159	114
D	East Sheen (Cemetery)	(+A) Barnes Corporation*	TQ(51)193747	88	24.4	24.30	159	114
D	Kew OBSERVATORY	(+A) Meteorological Office	TQ(51)171757	18	23.8	23.28	160	114
D	Barnes (Barn Elms)	Metropolitan Water Board	TQ(51)229774	16	22.9	21.84	148	112
6.—THAMES. Wey 236 sq. mi.								
D	Shottermill (Sewage Works)	(+A) Surveyor*	SU(41)879325	383	35.2	34.41	185	137
D	Hindhead (Waterworks)	Wey Valley Water Co.	SU(41)889359	839	34.5	33.69	187	138
d	Churt (Fir Down)	W. E. Livock, Esq.	SU(41)859376	500	...	30.74	...	130
D	Cranleigh (Lambwood)	Guildford Water Bd.	TQ(51)076397	300	...	32.61	184	138
D	Cranleigh (Sewage Works)	(+A) Surrey County Council	TQ(51)043394	154	...	29.50	171	126
D	Hascombe (Olivers)	Miss F. C. Musgrave	TQ(51)005395	361	31.7	31.57	176	132
D	Hascombe (Winkworth Hanger)	Sir John Wenham	SU(41)995404	430	...	30.18	167	127
d	Witley (King George V Sanatorium)	Dr. J. V. Hurford	SU(41)975402	305	...	29.79	...	...
D	Ewhurst (Copse Hill)	Mr. A. P. Clow		670	...	29.58	167	133
d	Milford (Kennel Moor)	G. S. Sansom, Esq., D.Sc.		180	...	26.64	...	...
D	Godalming (Borough Road P.S.)	Guildford Water Bd.	SU(41)967444	120	28.7	26.10	160	123
D	Farnham (Little Park)	Major G. A. Moxon	SU(41)851455	400	...	26.25	165	124
D	Holmbury St. Mary (Feldemore)	Mr. W. E. Hobday	TQ(51)113441	500	32.0	31.89	155	135
D	Peaslake (Southcots)	J. S. Moffat, Esq.		420	33.1	32.76	183	135
D	Chilworth (Brooks Wood)	Guildford Water Bd.	TQ(51)024470	175	...	26.37	170	126
D	Gomshall (Netley Mill P.S.)	Guildford Water Bd.	TQ(51)079479	250	...	28.52	189	134
d	Shere (Coombe End)	Miss R. L. M. Warren	TQ(51)068481	294	...	28.04	...	136
D	Shalford (Unstead Sewage Works)	Borough Surveyor	SU(41)995454	120	...	26.06	170	125
D	Shalford (The Hutch)	Capt. G. C. Pentland	TQ(51)000474	180	...	25.63	159	121
D	Farnham (Wrecclesham)	Late W. Sotheby, Esq.	SU(41)829445	360	...	25.95	143	122
D	Farnham (Sewage Works)	Engineer & Surveyor	SU(41)855480	245	...	27.56	186	131
d	Seale (Binton Cottage)	J. R. Colyer, Esq.	SU(41)881472	310	...	27.31	...	127
d	Seale (Greensand)	Mrs. A. B. Watkins	SU(41)900479	300	...	25.94	166	123
D	FARNHAM (Castle Street)	A. C. Hunt, Esq.	SU(41)838472	260	...	24.30	178	130
d	Farnham (Broomleaf Road)	A. C. Challands, Esq.	SU(41)852470	250	...	26.10	170	125
d	Farnham (Bells Piece)†	Mrs. K. M. Lewis	SU(41)848479	275	...	25.84	...	122
D	Guildford (Pilgrims Way)	J. J. Fox, Esq.	SU(41)999483	124	...	25.61	161	122
D	Guildford (Onslow Village)	C. O. Hunt, Esq.	SU(41)972489	300	...	25.43	181	124
D	Guildford (Avonmore Avenue)	Mrs. M. H. Fulk	TQ(51)008506	184	...	26.55	178	135
D	Guildford (Boxgrove School)	Capt. V. H. Holroyd, F.R.G.S.	TQ(51)013506	200	...	23.45	159	118
D	Guildford (Joseph's Road)	Guildford Water Bd.	SU(41)995510	98	25.0	23.30	160	112
D	Guildford (Woking Road)	(+A) Borough Engineer	TQ(51)000515	98	...	22.43	161	112
D	West Clandon	J. Dalrymple, Esq., C.E.	TQ(51)047506	319	28.5	25.49	174	124

|| Gauge over-sheltered.

† Formerly known as Farnham (Beechwood).

* Per Surrey County Council.

DIVISION II—SOUTH-EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957			
				National grid reference	Altitude		Rain-fall	Days with ·01 in. or more	Days with ·04 in. or more	
SURREY—(contd.)					ft.	in.	in.			
6.—THAMES. Wey—(contd.)										
	East Horsley (Ethandown)	..	.. Basil D. Tims, Esq.	..	TQ(51)092533	280	...	25·84	...	...
D	Pirbright (Bakersgate)	..	.. Lord Lyle of Westbourne		SU(41)951544	120	...	23·77	153	121
D	Old Woking (The Gresham Press)	..	.. Unwin Bros., Ltd.	..	TQ(51)014563	50	...	23·47	165	114
D	Woking (The Grange)	..	.. Miss M. E. Wilson	..	TQ(51)022570	81	...	24·31	167	111
D	Old Woking (Sewage Works)	..	.. Woking, U.D.C.	..	TQ(51)027573	76	...	22·26	147	104
D	Woking (Council Offices)	..	(+A) Woking U.D.C.	..	TQ(51)002579	132	25·0	22·08	157	105
d	Woking (Percy Street)	..	.. J. Dalrymple, Esq., C.E.	..	TQ(51)003588	100	...	22·76	...	...
d	Woking (Goldsworth Road Depot)	..	.. Woking U.D.C.	..	SU(41)998587	96	25·3	24·22	128	95
d	Byfleet (WISLEY R.H.S. Gardens)	..	.. Director	..	TQ(51)063583	150	24·1	22·17	167	112
D	Wisley (Outfall Works)	..	.. Woking U.D.C.	..	TQ(51)061599	53	24·5	22·49	149	109
d	West Byfleet (Scotland Bridge)	..	.. Woking U.D.C.	..	TQ(51)047616	67	...	22·42	(154)	(111)
d	Addlestone	..	.. W. V. Davies, Esq., C.E.	..	TQ(51)061642	46	24·0	22·26	164	116
d	Weybridge (Oil Mills)	..	.. A. Whittet & Co. Ltd.	..	TQ(51)073655	36	23·7	22·71	162	109
D	Weybridge (Thames Street)	..	.. Mrs. H. M. R. Tomlinson	..	TQ(51)076657	50	...	22·95	173	117
D	Walton-on-Thames (Waterworks)	..	.. West Surrey Water Co.	..	TQ(51)084662	33	23·0	21·58	133	106
7.—THAMES. Bourne. 55 sq. mi.										
D	West Byfleet (N. Zealand Golf Club)	Secretary	..	..	TQ(51)030612	100	...	24·39	188	122
d	Bagshot	..	.. J. Waterer, Sons & Crisp, Ltd.		SU(41)907626	270	...	24·21	...	...
D	Weybridge (St. George's College)	..	.. Rev. C. K. Bryant	..	TQ(51)060653	46	...	22·37	151	111
d	Chertsey (Long Cross)	..	.. Lord Brabazon of Tara	..	TQ(51)000656	150	...	24·16	...	...
D	Chertsey	..	.. W. V. Davies, Esq., C.E.	..	TQ(51)049662	42	23·3	22·35	146	112
D	Chertsey (Abbey Meads)	..	.. J. Dalrymple, Esq., C.E.	..	TQ(51)046677	53	23·0	24·72	155	114
D	Chertsey (Lyne Farm Sew. Wks.)	(+A)	Surrey County Council	..	TQ(51)016677	93	...	24·43	158	111
D	Egham (Waterworks)	..	.. S.W. Suburban Water Co.		TQ(51)025715	54	...	26·27	158	110
8.—THAMES. Loddon. 17 sq. mi.										
D	Frimley (Pumping Station)	..	.. Mid-Wessex Water Co.	..	SU(41)887563	213	...	24·23	167	120
D	Camberley (Sewage Works)	..	(+A) Surrey County Council	..	SU(41)863597	198	26·4	23·66	168	120
D	Camberley (Woodlands Road)	..	.. K. Hustwick, Esq.	..	SU(41)867600	216	...	24·04	173	118
KENT. (Area, 1,532 sq. mi.)										
1.—ROTHER & C. 217 sq. mi.										
D	DUNGENESS (Lighthouse)	..	.. Chief Officer	..	TR(61)094169	10	24·4	22·79	154	113
D	Lydd (Denge Pumping Station)	..	.. Folkestone & District W. Co.	..	TR(61)068201	14	...	23·99	150	104
D	Stone (Huggetts Farm)	..	.. G. L. Billson, Esq.	..	TQ(51)939272	140	...	25·77	179	126
D	Dymchurch (Slieve Truim)	..	.. D. Hamill Morton, Esq.	..	TR(61)102296	9	...	26·02	158	121
d	Sandhurst (Field Green)	..	.. J. L. Tweedie, Esq.	..	TQ(51)786295	199	...	27·21	...	117
D	Hythe	..	.. Borough Surveyor	..	TR(61)163345	9	...	27·95	178	124
d	Hythe (Sandling Park)	..	.. Major A. E. Hardy	..	TR(61)142368	260	...	30·50	159	129
D	Bonnington Rectory	..	.. Rev. W. T. H. Sampson	..	TR(61)053351	45	...	25·67	173	121
D	FOLKESTONE (The Leas)	..	(+A) Borough Engineer	..	TR(61)227358	128	...	25·58	160	115
D	Folkestone (Cherry Garden)	..	.. Folkestone W.W. Co.	..	TR(61)211381	230	29·1	31·34	168	126
D	Alkham Valley (Lower Standen)	..	.. Folkestone W.W. Co.	..	TR(61)240404	248	...	27·04	169	117
D	DOVER (Waterloo Crescent)	..	.. Borough Engineer	..	TR(61)320410	19	28·2	29·41	168	115
D	Dover (Buckland)	..	.. Guy Mannering, Esq.	..	TR(61)306426	50	...	30·57	152	111
D	Dover (Waterworks)	..	.. Borough Engineer	..	TR(61)322420	199	...	26·83	147	103
D	DOVER (ROYAL MILITARY SCHOOL)	..	.. Headmaster	..	TR(61)327439	402	...	29·18	157	112
2.—STOUR & C. 386 sq. mi.										
	Mersham	..	.. A. E. Boniface, Esq.	..	TR(61)054400	230	...	28·36	...	...
D	Lyminge (Skeete Pumping Station)	..	.. Folkestone W.W. Co.	..	TR(61)144409	445	...	32·99	161	131
D	Elham (Ottinge)	..	.. S. G. Holmans, Esq.	..	TR(61)168422	300	...	33·78	153	135
D	Ashford (Gasworks)	..	.. L. G. Kimmins, Esq.	..	TR(61)005428	125	...	27·95	169	126

DIVISION II—SOUTH-EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
KENT—(contd.)				ft.	in.	in.		
2.—STOUR & C.—(contd.)								
d	Ashford	Headley Bros., Ltd.	TR(61)013430	190	...	28.49	...	...
D	Ashford (Albert Road)	A. E. Brounger, Esq.	TR(61)009430	185	...	28.18	169	126
D	Ashford (Belmore)	J. W. Kennard, Esq.	TR(61)007433	200	...	27.32	161	129
D	Hastingleigh (Elmsted)	F. A. Secrett, Ltd.	TQ(51)113439	567	...	33.58	181	139
D	Dover (Martin Mill Pump. Station)	W. A. Parker, Esq.	TR(61)337471	287	...	30.24	155	107
D	WYE (S.E. Agricultural College)	Principal	TR(61)057469	164	...	31.09	188	142
D	Waldershare Park Gardens	Mr. H. W. Garley ..	TR(61)291481	280	...	29.28	159	118
D	Charing (Pett Place)	J. E. Hosking, Esq. .	TQ(51)961491	300	...	28.23	156	126
D	Deal & Walmer Waterworks	W. Mantle, Esq. .	TR(61)363508	110	27.2	23.96	162	109
D	Barham (Old House)	L. S. Osmaston, Esq.	TR(61)208501	175	...	27.53	164	122
D	Barham (Pumping Station)	W. A. Parker, Esq.	TR(61)196509	173	...	28.29	167	121
d	Nonington (Red Tiles)	C. G. W. Lewis, Esq.	TR(61)261521	140	...	25.82	160	116
D	Wingham (Margate Waterworks)	Thanet Water Board	TR(61)244553	137	...	24.86	165	112
D	Chartham (Old Mill)	Kent River Board ..	TR(61)097553	80	...	24.21	141	121
D	Sandwich (Loop Street)	Borough Surveyor ..	TR(61)328583	15	...	25.41	154	115
D	Canterbury (Harbledown)	W. Norris, Esq. .	TR(61)133580	150	...	20.62	135	102
D	Ash (Corking Farm)	R. F. Neame, Esq. .	TR(61)277599	50	...	19.39	144	94
D	Elmstone (Court Farm)	J. B. Henderson, Esq.	TR(61)256604	28	...	20.16	126	98
d	Ramsgate (Minster)	A. W. Best, Esq. .	TR(61)309650	75	...	21.40	213	114
D	RAMSGATE (East Cliff)	Borough Engineer ..	TR(61)385648	80	...	20.12	150	100
M	Broadstairs	Broadstairs & S. Peters U.D.C.	TR(61)391681	130	...	20.05	...	...
D	MARGATE	Medical Officer of Health ..	TR(61)368714	51	22.8	17.49	123	80
3.—SWALE & C. 167 sq. mi.								
D	THROWLEY (Newlands Farm)	Thomas Neame, Ltd.	TQ(51)983518	493	...	27.79	176	132
D	Selling (Perry Cottage)	Mrs. S. H. L. Neame	TR(61)041556	462	...	25.69	167	128
D	Sittingbourne (Torry Hill)	D. Leigh Pemberton, Esq.	TQ(51)898572	497	...	30.11	162	126
D	Newnham (Pumping Station)	W. A. Parker, Esq.	TQ(51)975597	107	...	24.84	160	111
D	Faversham (Waterworks)	Engineer & Manager ..	TR(61)013595	132	...	20.89	161	108
d	Ospringe (Queen Court)	Shepherd Neame Ltd.	TR(61)000604	50	...	24.86	...	...
D	Ospringe (Lorenden)	Messrs. G. W. Finn & Sons	TQ(51)993592	175	...	24.22	147	117
D	Sittingbourne (Highsted Waterworks)	Sittingbourne U.D.C.	TQ(51)910607	138	...	25.17	160	118
D	SITTINGBOURNE	Kent Farm Institute	TQ(51)891613	225	...	25.40	149	117
D	Faversham (Sewage Disp. Works) ..	Engineer and Manager ..	TR(61)023617	22	24.7	23.08	174	115
D	Whitstable (Green Lees)	W. H. Wetherell, Esq.	TR(61)108633	125	...	22.69	177	124
D	Milton Regis (Sewage Works)	Sittingbourne U.D.C.	TQ(51)912648	8	22.6	20.30	153	105
d	Herne Bay (Waterworks)	J. Roberts, Esq. .	TR(61)186679	125	...	20.00	...	93
D	HERNE BAY (St. Anne's Home)	Urban District Council	TR(61)171681	21	...	17.17	125	96
D	Eastchurch (Barnland)	A. A. Beal, Esq. .	TR(61)012721	180	...	18.24	139	99
4.—MEDWAY. 506 sq. mi.								
D	Goudhurst (Pumping Station)	Mid-Kent Water Co.	TQ(51)711368	285	...	28.59	160	121
D	GOUDHURST (Bedgebury Forest)	Forestry Commission	TQ(51)720335	290	...	32.45	177	139
D	Goudhurst (Bedgebury Park Gdns.) ..	Mr. E. G. Arnold ..	TQ(51)717341	280	31.8	31.75	195	131
d	Scotney Castle	C. Hussey, Esq. .	TQ(51)685354	210	...	28.07	...	...
D	Biddenden (Little Whatmans)	W. H. S. Williams, Esq.	TQ(51)850362	200	...	28.12	139	118
d	High Halden (Halden House)	Tenterden R.D.C. .	TQ(51)890371	170	...	28.51	...	...
D	TUNBRIDGE WELLS (Calverley Park) ..	Medical Officer of Health ..	TQ(51)588392	351	...	29.50	168	119
D	Tunbridge Wells (Hurstwood Lane) ..	Mrs. F. Dann ..	TQ(51)576395	395	...	30.29	175	122
D	Pembury (Waterworks)	H. P. Bishop, Esq., C.E.	TQ(51)627421	196	...	27.16	149	117
D	Penshurst (Saints Hill)	H. P. Bishop, Esq., C.E.	TQ(51)523415	124	...	26.48	151	113
D	Southborough (Great Bounds Res.) ..	Borough Surveyor ..	TQ(51)573436	478	...	29.50	154	115
D	Edenbridge (Falconhurst)	Hon. Mr. Justice Talbot	TQ(51)470427	375	30.7	30.92	160	124
D	Edenbridge (Stonewall Park)	Lt.-Col. B. R. Meade-Waldo	TQ(51)502429	344	...	28.48	154	119
D	Edenbridge (Pumping Station)	Sevenoaks R.D.C. .	TQ(51)452468	130	...	27.75	159	122

|| Gauge over-sheltered.

DIVISION II—SOUTH-EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
KENT—(contd.)				ft.	in.	in.		
4.—MEDWAY—(contd.)								
D	Penshurst Place	.. .. Viscount De L'Isle, V.C.	TQ(51)538440	120	...	27.14	151	117
D	Headcorn (Great Tong)	.. .. A. E. A. Day, Esq.	TQ(51)831465	110	...	24.13	143	113
D	Hildenborough (Gailles)	.. .. E. E. Roper, Esq.	TQ(51)572488	159	27.2	27.22	142	111
D	Yalding (Anchor Sluices)	.. .. Kent River Board	TQ(51)690497	40	...	23.10	144	104
D	Lenham (Lenham Court)	.. .. Major W. T. Pitt	TQ(51)884519	354	28.8	28.05	166	123
D	Lenham	.. .. D. F. Tysoe, Esq.	TQ(51)883529	400	...	28.29	167	122
D	Maidstone Waterworks (Barming)	.. .. C. H. Harden, Esq., C.E.	TQ(51)735548	247	25.2	24.56	147	119
d	Maidstone (College Road)	.. .. Kent River Board	TQ(51)758550	50	...	24.51	...	118
D	Maidstone (Mill Street)	.. .. S. F. Dixon, Esq.	TQ(51)761555	37	25.7	24.46	176	121
D	Bearsted (Thurnham Pumping Stn.)	.. .. W. A. Parker, Esq.	TQ(51)816559	226	27.7	26.79	164	120
D	Maidstone (Brenchley Gardens)	.. .. S. F. Dixon, Esq.	TQ(51)759561	49	25.7	23.82	148	112
D	WEST MALLING Airfield	.. (+A) Meteorological Office	TQ(51)678556	304	...	24.58	155	107
D	EAST MALLING (Research Station)	.. Director	TQ(51)711568	122	26.1	24.41	163	113
D	Maidstone (Hockers Lane P.S.)	.. .. C. H. Harden, Esq., C.E.	TQ(51)788571	212	...	25.40	164	123
D	Maidstone (Allington Lock)	.. .. Mr. A. H. Reed	TQ(51)746582	20	...	23.49	145	114
D	Aylesford (Forstal Pumping Stn.)	.. .. C. H. Harden, Esq., C.E.	TQ(51)739587	20	...	22.78	146	104
D	Trottisccliffe (Pumping Station)	.. .. W. A. Parker, Esq.	TQ(51)640595	250	27.5	26.11	144	111
D	Maidstone W.W. (Boxley)	.. .. C. H. Harden, Esq., C.E.	TQ(51)774594	319	...	25.25	160	112
D	Hartlip (Matts Hill Pumping Stn.)	.. .. Medway Water Bd.	TQ(51)820625	225	...	25.52	145	114
D	Chatham (Woolmans Wood)	.. .. Medway Water Bd.	TQ(51)746635	470	...	26.78	135	114
D	Halling (Pumping Station)	.. .. W. A. Parker, Esq.	TQ(51)701643	75	...	24.29	134	107
D	Chatham (Nashenden Pumping Stn.)	.. .. Medway Water Bd.	TQ(51)734655	125	...	25.00	132	107
D	Chatham (Luton Waterworks)	.. .. Medway Water Bd.	TQ(51)775663	88	...	22.82	147	107
d	Chatham (Royal Naval Hospital)	.. .. S.C.E., Chatham Dockyard	TQ(51)771675	223	...	21.04	...	98
D	Cuxton (Pumping Station)	.. .. Cuxton Water Committee	TQ(51)689669	87	...	24.62	164	111
D	Rainham (Motney Hill)	.. .. J. B. Harvey, Esq.	TQ(51)829684	28	...	20.99	140	101
D	Strood (Waterworks)	.. .. (+A) City Surveyor	TQ(51)729693	112	...	21.17	154	106
D	GILLINGHAM	.. .. (+A) Borough Engineer	TQ(51)743720	14	...	21.10	148	101
D	Frindsbury (Shornells)	.. .. F. J. Talbot, Esq.	TQ(51)745711	50	23.5	20.73	136	106
D	Wainscott (Maycroft)	.. .. A. L. Crowhurst, Esq.	TQ(51)743720	60	...	21.31	149	110
d	Hoo (Lodge Hill)	.. .. S.C.E., Chatham Dockyard	TQ(51)757734	150	...	21.70	140	106
D	ISLE OF GRAIN	.. .. Kent Oil Refinery, Ltd.	TQ(51)871749	8	...	19.02	140	93
5.—THAMES. Darent & c. 256 sq. mi.								
D	Westerham Hill (Pumping Station)	.. Metropolitan Water Board	TQ(51)430559	539	32.6	29.24	168	127
D	Sundridge (Pumping Station)	.. Metropolitan Water Board	TQ(51)489555	270	29.2	28.24	165	119
w	Sevenoaks (Bayleys Hill Reservoir)	.. .. E. H. Evans, Esq.	TQ(51)519521	696	...	28.26	...	...
d	Sevenoaks (Oak Lane)	.. .. E. H. Evans, Esq.	TQ(51)528542	428	...	30.90	...	...
d	\$Tatsfield (Betsoms Hill)	.. .. Metropolitan Water Board	TQ(51)431563	820	33.1	29.74	...	...
w	Seal (Oak Bank Reservoir)	.. .. E. H. Evans, Esq.	TQ(51)564561	548	29.2	30.42	...	...
D	Sevenoaks (Cramptons Road P.S.)	.. .. E. H. Evans, Esq.	TQ(51)530570	222	28.7	28.27	159	117
D	Seal (Kemsing Pumping Station)	.. .. E. H. Evans, Esq.	TQ(51)569576	292	...	28.00	157	118
D	Sevenoaks (Chevening Gardens)	.. .. Head Gardener	TQ(51)486578	350	...	29.58	182	128
d	\$Knockholt (Kent Waterworks)	.. Metropolitan Water Board	TQ(51)467583	785	...	30.29	...	...
d	Biggin Hill Airfield	.. .. Meteorological Office	TQ(51)411605	538	...	26.68	...	...
D	Wrotham (Fairseat Manor)	.. .. A. E. D. Anderson, Esq.	TQ(51)621614	700	30.7	32.24	175	133
D	Downe (Down House)	.. .. Royal College of Surgeons	TQ(51)430612	560	...	28.80	156	127
D	Keston (Keston Court Farm)	.. .. A. T. Miller, Ltd.	TQ(51)415630	349	...	27.17	147	121
D	Shoreham (Highfield)	.. .. Sir Herbert B. Cohen, Bart.	TQ(51)541605	650	...	26.32	171	126
D	West Wickham (Pumping Station)	.. Metropolitan Water Board	TQ(51)380645	240	25.4	24.25	142	114
D	Keston (Westerham Road)	.. .. F. T. Carman, Esq.	TQ(51)419646	390	...	23.67	160	117
D	Eynsford (Pumping Station)	.. Metropolitan Water Board	TQ(51)536655	131	...	24.14	140	103
w	Farningham (Dunbrae)	.. .. Bertram Grey, Esq.	TQ(51)542668	230	...	23.27	...	...
D	Orpington (Kent Waterworks)	.. Metropolitan Water Board	TQ(51)459652	220	26.7	24.08	152	113

§ Turf wall round gauge.

DIVISION II—SOUTH-EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
KENT—(contd.)				ft.	in.	in.		
5.—THAMES. Darent & c.—(contd.)								
D	Chelsfield	A. R. A. Griffin, Esq. ..		550	...	26.49	171	115
D	Longfield (Hartley)	Hartley Water Committee	TQ(51)617665	270	...	23.75	153	114
d	Crockenhill (Wested Farm)	A. T. Miller, Ltd.	TQ(51)577668	331	...	24.63	...	...
D	West Wickham (Pickhurst Rise)	E. F. R. Barber, Esq. ..	TQ(51)392664	250	...	25.53	166	117
D	Cobham (Jeskyns Court)	Miss D. M. Pye	TQ(51)660690	264	...	23.03	149	103
D	Meopham (Pumping Station) ..	Medway Water Bd. ..	TQ(51)635691	160	...	23.45	154	109
d	BROMLEY (+A)	Borough Engineer	TQ(51)399693	213	24.2	23.58	...	111
D	Bromley (Bishops Avenue) ..	G. H. Franey, Esq. ..	TQ(51)411690	190	...	22.38	166	119
D	Beckenham (Croydon Road) ..	(+A) Borough Engineer ..	TQ(51)368688	110	...	22.34	161	114
D	Penge (Recreation Ground) ..	Surveyor	TQ(51)352703	122	24.6	22.79	166	107
D	Anerley (Oakfield Road) ..	Miss S. Stannard	TQ(51)377700	180	...	22.88	161	117
D	Beckenham (Foxgrove Road) ..	G. C. Hawkins, Esq. ..	TQ(51)349700	150	...	23.14	151	118
D	Chislehurst (Scadbury Park) ..	Maj. J. Marsham-Townshend	TQ(51)458701	240	24.6	24.28	152	121
D	SWANLEY (Horticultural Institute)	Principal	TQ(51)512701	177	...	20.81	144	108
D	Bromley (Henville Road) ..	W. M. Smith, Esq., M.B.E.	TQ(51)409697	230	24.4	23.79	172	115
d	Southfleet (Hook Place Farm) ..	J. J. Barker, Esq.	TQ(51)611705	100	...	21.04	...	...
D	Wilmington (Orchard Way) ..	L. H. Stone, Esq.	TQ(51)536720	115	...	20.52	155	110
D	Southfleet (Kent Waterworks) ..	Metropolitan Water Board	TQ(51)610724	82	...	21.70	144	96
D	Wilmington (Kent Waterworks)	Metropolitan Water Board	TQ(51)544727	25	...	20.70	154	110
D	Dartford (Christchurch Road) ..	Dr. J. C. Burne	TQ(51)532741	100	...	19.97	157	112
D	DARTFORD (Central Park) .. (+A)	Borough Engineer	TQ(51)543737	17	...	18.96	148	105
d	Stone (Stone House Hospital) ..	G. Jones, Esq.	TQ(51)559743	115	...	20.41	...	...
D	Bexleyheath (Danson Park) ..	(+A) Surveyor	TQ(51)472755	165	...	21.61	158	115
d	Dartford (Sewage Works) ..	Resident Engineer	TQ(51)553767	14	...	19.63	133	104
d	Northumberland Heath (C.S. School)	Headmaster	TQ(51)498772	152	...	19.82	...	...
d	Erith (Sewage Works) (+A)	Erith U.D.C.	TQ(51)523778	13	...	19.14	137	112
D	Erith (Crossness) (+A)	London County Council	TQ(51)485809	26	20.8	18.30	123	94
SUSSEX. (Area, 1,458 sq. mi.)								
1.—LAVANT & C. 175 sq. mi.								
D	Selsey (Oakash)	Late J. Cartland, Esq. ..	SZ(40)858944	29	...	29.29	168	128
D	BOGNOR REGIS (Waterloo Square)	Town Clerk	SZ(40)934989	24	25.9	27.71	150	111
	Chichester (Birdham)	S. A. Searle, Esq.	SU(41)824004	16	...	26.99	...	...
d	Bosham (Cobnor)	Major S. W. P. Beale	SU(41)792024	12	27.7	27.26	130	105
D	Thorney Island Airfield (+A)	Meteorological Office ..	SU(41)756027	11	27.3	26.31	157	115
D	Chidham (Chidmere)	R. L. Baxendale, Esq. ..	SU(41)798036	14	27.0	27.36	145	118
D	Chichester (Apuldram)	S. J. K. Eames, Esq. ..	SU(41)840032	14	27.9	26.31	151	114
D	Chichester (West Street) ..	Dr. W. Dick	SU(41)857047	40	28.3	28.18	153	115
D	Chichester (County Hall) ..	K. Whale, Esq.	SU(41)856050	40	29.1	27.12	155	112
D	TANGMERE Airfield (+A)	Meteorological Office ..	SU(41)911064	52	27.5	30.39	154	114
D	Arundel (West Walberton) ..	P. A. Bisset, Esq.	SU(41)960064	90	29.2	31.67	163	119
D	Chichester (Funtington Pumping Stn.)	A. N. Burgess, Esq. ..	SU(41)811081	112	...	31.49	166	127
D	Emsworth (Stansted Park) ..	The Earl of Bessborough ..	SU(41)762103	140	...	30.26	171	131
d	West Dean Park	Mr. E. K. Steer	SU(41)864127	190	36.4	37.26	...	...
D	Chilgrove House (Lawn) ..	Col. C. F. W. Dimond ..		253	35.0	38.08	149	124
d	Compton (Compton House) ..	K. M. Langdale, Esq. ..	SU(41)773150	263	36.6	36.94	145	133
2.—ARUN. 285 sq. mi.								
D	LITTLEHAMPTON (Met. Station)	Clerk to the U.D.C. ..	TQ(51)033018	19	26.2	26.49	144	107
D	Littlehampton (Court Wick) ..	J. Vinnicombe & Son, Ltd.	TQ(51)025037	22	...	26.08	158	110
D	Patching (Pumping Station) ..	Water Engineer, Worthing	TQ(51)092074	118	...	31.22	177	124
D	Arundel Castle	The Duke of Norfolk ..	TQ(51)017073	106	31.3	30.46	169	124
d	South Harting (Rose Croft) ..	A. A. Cooper, Esq. ...	SU(41)787198	230	...	38.09	...	130
	Bignor	Major G. B. Hill, O.B.E. ..	SU(41)982145	175	37.3	42.52	...	...

DIVISION II—SOUTH-EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957			
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more	
SUSSEX—(contd.)					ft.	in.	in.			
2.—ARUN—(contd.)										
D	Pulborough (Parham)	..	.. R. E. Whitaker, Esq.	..	TQ(51)060143	98	33·6	32·98	145	120
D	Sutton (Hurst Cottage)	..	.. A. B. Boxall, Esq.	..	SU(41)979152	200	...	38·50	175	136
D	Pulborough (Bignor Park)	..	.. The Viscountess Mersey	..		75	...	40·43	169	133
d	Petworth (Barlavington Farm)	..	.. J. A. G. Bragg, Esq.	..	SU(41)973161	181	...	41·23	164	132
D	Hardham (Pumping Station)	..	(+ A) N.W. Sussex Joint Water Bd.		TQ(51)033176	30	...	36·11	168	132
D	Byworth (Edgehill)	..	.. W. H. Boniface, Esq.	..		100	...	35·19	168	126
D	Midhurst (June Lane)	..	.. R. Amore, Esq.	..	SU(41)885216	135	33·2	33·47	164	123
D	Petworth Park Gardens	..	.. Lord Leconfield	..	SU(41)975217	250	33·1	34·02	152	123
D	Rogate Vicarage	..	.. Rev. L. Bell	..	SU(41)811240	210	...	31·37	169	125
D	Rogate (Fyning)	..	.. H. W. A. Bodkin, Esq.	..		230	31·2	32·72	167	125
D	FERNHURST (Research Station)	..	.. Plant Protection Ltd.	..	SU(41)906274	188	...	32·74	171	131
D	Kirdford (Hills Green)	..	.. L. Baker, Esq.	..	SU(41)998272	150	27·8	27·60	147	113
d	Liss (Clayton Court)	..	.. Head Gardener	..	SU(41)788261	480	35·2	39·44	183	139
D	Horsham (Pondtail Depot)	..	.. N.W. Sussex Water Board		TQ(51)167304	157	30·9	28·59	...	...
D	Horsham (Sewage Disposal Works)	(+ A)	J. P. Ridd, Esq., B.Sc., C.E.		TQ(51)160302	120	29·3	27·94	163	123
	Horsham (Rushams Road)	..	.. A. H. Wickersham, Esq.	..		140	...	28·82	...	...
D	Horsham (North Parade)	..	.. G. N. Slyfield, Esq.	..	TQ(51)172317	166	...	28·98	164	120
D	Rudgwick (Swaynes)	..	.. S. D. Secretan, Esq., J.P.	..	TQ(51)092330	121	26·7	29·11	176	124
D	Rusper (The Nunnery)	..	.. Sir Cecil Hurst, G.C.M.G.		TQ(51)191364	260	30·8	30·51	163	125
3.—ADUR & C. 237 sq. mi.										
D	Worthing (Ferring)	..	.. Dr. L. S. F. Woodhead	..	TQ(51)092018	26	...	26·62	176	117
D	WORTHING (Beach House Park)	(+ A)	Medical Officer of Health	..	TQ(51)153029	25	27·5	25·30	162	113
d	Goring-by-Sea (Highdown Tower)	..	.. Col. Sir F. C. Stern	..	TQ(51)093041	100	...	26·07	...	108
D	Brighton (Ovingdean)	..	.. L. H. B. Woodhead, Esq.	..	TQ(51)360033	161	...	27·21	159	124
D	BRIGHTON (Old Steyne)	..	.. F. N. Green, Esq., C.E.	..	TQ(51)313054	32	28·1	26·64	158	107
D	Hove (Goldstone Crescent)	..	.. Guy Michell, Esq.	..	TQ(51)287066	150	...	30·17	165	125
D	Brighton W.W. (Goldstone Bottom)	..	.. F. N. Green, Esq., C.E.	..	TQ(51)284066	142	...	28·68	166	120
D	Brighton W.W. (Lewes Road)	..	.. F. N. Green, Esq., C.E.	..	TQ(51)319060	139	29·9	28·39	159	120
D	Brighton W.W. (Shoreham)	..	.. F. N. Green, Esq., C.E.	..	TQ(51)210068	9	29·2	29·30	169	127
D	Brighton W.W. (Mile Oak)	(+ A)	.. F. N. Green, Esq., C.E.	..	TQ(51)243079	166	...	29·33	167	125
D	Brighton W.W. (Race Hill Reservoir)	..	.. F. N. Green, Esq., C.E.	..	TQ(51)335057	456	31·6	33·21	178	139
D	§Brighton W.W. (Balsdean Reservoir)	..	.. F. N. Green, Esq., C.E.	..	TQ(51)374045	399	...	30·62	160	126
D	Brighton W.W. (Balsdean Pumping Stn.)	..	.. F. N. Green, Esq., C.E.	..	TQ(51)378046	188	...	29·83	159	127
D	Brighton W.W. (Falmer)	(+ A)	.. F. N. Green, Esq., C.E.	..	TQ(51)342084	200	32·1	32·14	174	132
D	Findon (North End)	..	.. Mrs. B. H. Madge	..	TQ(51)118097	211	...	36·10	174	134
D	Upper Beeding (Sele Gardens)	..	.. H. G. Phillips, Esq.	..	TQ(51)203092	16	...	33·53	167	131
D	Brighton W.W. (Patcham)	..	.. F. N. Green, Esq., C.E.	..	TQ(51)294091	205	31·8	31·64	166	124
d	Steyning (High Street)	..	.. West Sussex River Board	..	TQ(51)175113	62	...	35·62	166	126
D	Washington	..	.. A. Jenner, Esq.	..	TQ(51)118135	175	...	35·15	163	128
D	Poynings (Saddlescombe P.S.)	..	.. F. B. Lumsden, Esq.	..	TQ(51)272112	528	...	34·65	157	124
d	Hassocks (Newtimber Place)	..	.. A. E. Williams, Esq.	..	TQ(51)269138	157	...	30·48	...	119
d	Westmeston (Coombe Down P.S.)	..	.. F. B. Lumsden, Esq.	..	TQ(51)317133	380	...	32·89	...	120
D	Clayton (Pumping Station)	..	.. F. B. Lumsden, Esq.	..	TQ(51)305137	260	...	37·46	154	128
d	Ditchling	..	.. Miss M. J. Taylor	..		200	...	35·36	163	130
D	Hurstpierpoint (Brundall)	..	.. R. E. Toombs, Esq.	..	TQ(51)280166	140	...	29·82	155	114
D	Hurstpierpoint College	..	.. Headmaster	..	TQ(51)289176	100	...	28·88	148	111
D	Partridge Green (Shermanbury Grange)	..	.. West Sussex River Board	..	TQ(51)203192	39	...	29·90	164	118
D	West Grinstead (Knepp Castle Gdns.)	..	.. Capt. W. R. Burrell	..	TQ(51)155218	50	...	29·30	151	121
D	Horsham (Sedgewick Park)	..	.. Rt. Hon. Lord Rotherwick		TQ(51)184266	280	...	28·06	159	124
4.—OUSE. 224 sq. mi.										
D	Seaford (Newlands)	..	.. Capt. T. D. Manning, C.B.E.		TV(50)496996	150	28·6	26·70	153	120
D	SEAFORD	..	.. Surveyor	..	TV(50)486990	45	...	25·23	145	111
D	Newhaven (Poverty Bottom W.W.)	..	.. F. B. Lumsden, Esq.	..	TQ(51)466022	48	28·8	28·44	167	131

§ Turf wall round gauge.

DIVISION II—SOUTH-EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain- fall	1957			
				National grid reference	Altitude		Rain- fall	Days with ·01 in. or more	Days with ·04 in. or more	
SUSSEX—(contd.)					ft.	in.	in.			
4.—OUSE—(contd.)										
D	Lewes Waterworks (Kingston)	..	Water Works Engineer	..	TQ(51)407092	11	34·6	32·11	161	124
D	Lewes (The Avenue)	.. ..	R. Shanks, Esq.	.. ..	TQ(51)408103	130	...	29·76	152	116
D	Plumpton (School of Agriculture)	..	Principal	.. ..	TQ(51)359136	250	...	36·20	157	126
D	Newick (Hollygrove Cottage)	..	R. Brown, Esq.	.. ..	TQ(51)408209	150	...	28·58	161	123
d	North Chailey	.. ..	P. H. Hales, Esq.	.. ..	TQ(51)372212	250	...	28·53	...	...
d	Uckfield (County School)	..	Headmaster	.. ..	TQ(51)478214	157	...	27·21	...	113
D	Haywards Heath (Paddockhall Road)		Chas. Holman, Esq.	..	TQ(51)326241	260	...	32·09	167	122
D	Horsted Keynes (Holy Well P.S.)	..	W. H. Ashmole, Esq.	..	TQ(51)369276	124	31·5	31·68	167	127
D	Ardingly (Shell Brook W.W.)	..	W. H. Ashmole, Esq.	..	TQ(51)334284	127	...	31·56	162	126
D	Horsted Keynes (Cinder Hill)	..	L. A. Wood, Esq.	..	TQ(51)379297	300	31·7	32·14	164	128
D	Balcombe (Lullings)	.. ..	Mrs. M. Holland	.. ..	TQ(51)328303	348	34·8	36·61	172	137
D	Balcombe (Waterworks)	..	W. H. Ashmole, Esq.	..	TQ(51)290312	467	33·9	32·78	173	129
D	Balcombe (Highley Manor)	..	Mr. B. T. Brooks	.. ..	TQ(51)300318	420	34·2	35·29	179	130
5.—CUCKMERE & C. 189 sq. mi.										
D	EASTBOURNE (Wilmington Square)	..	Medical Officer of Health	..	TV(50)611980	20	30·7	27·82	157	123
D	EASTBOURNE (Coastguard Station)	..	Station Officer, for M.O.	..	TV(50)622999	17	...	27·87	141	109
D	Eastbourne (Summerdown Road)	..	A. C. Fraser, Esq.	..	TV(50)596990	122	...	27·26	157	123
D	Friston (Water Tower)	..	Eastbourne Waterworks	..	TV(50)553984	389	...	29·00	158	132
D	Friston	.. ..	Eastbourne Waterworks	..	TV(50)545986	104	30·8	28·36	170	133
D	Jevington	.. ..	Eastbourne Waterworks	..	TQ(51)563013	274	31·7	31·26	166	133
D	Litlington	.. ..	Eastbourne Waterworks	..	TV(50)523018	19	30·5	28·53	156	122
D	Pevensey (Pumping Station)	..	Hailsham R.D.C.	..	TQ(51)649047	12	27·0	27·43	146	118
D	Pevensey Bay (Pumping Station)	..	Hailsham R.D.C.	..	TQ(51)668047	7	27·0	25·98	144	119
D	Polegate (Sewage Works)	..	Hailsham R.D.C.	..	TQ(51)592047	26	...	30·27	172	126
D	HANKHAM	.. ..	A. E. Moon, Esq.	..	TQ(51)621056	68	...	27·58	160	114
d	Hailsham (Michelham Priory)	..	F. G. H. Storey, Esq., M.A.	..	TQ(51)558093	45	...	29·24	...	119
D	Bexhill (Pebsham Lane)	..	Mrs. C. A. Bishop	..	TQ(51)758088	40	...	26·05	159	120
D	BEXHILL (Egerton Park)	.. (+ A)	Bor. Council (H. J. Sargent)	..	TQ(51)737072	12	26·3	26·70	150	120
D	HASTINGS (White Rock)	.. (+ A)	Director of Publicity	..	TQ(51)809094	149	28·7	26·01	159	123
D	St. Leonards (Filsham Waterworks)	..	Water Engineer (Hastings)	..	TQ(51)778093	37	27·3	27·81	154	119
d	Hellingly (Amberstone)	..	Eastbourne Waterworks	..	TQ(51)597113	29	...	28·25	...	116
D	Hazards Green (Pumping Station)	(+ A)	Bexhill Waterworks	..	TQ(51)681123	74	26·0	24·35	158	117
D	Hastings (Newgate)	.. ..	Water Engineer	.. ..	TQ(51)807102	243	27·5	27·57	159	123
D	Hastings (Halton Reservoir)	..	Water Engineer	.. ..	TQ(51)826104	294	28·6	29·12	159	131
D	St. Leonards (Ashbrooke Lodge)	..	N. Lang-Smith, Esq.	..	TQ(51)796120	230	...	28·48	163	133
D	Hollington (Baldslow Reservoir)	..	Water Engineer (Hastings)	..	TQ(51)796132	422	...	27·55	167	124
D	Battle (Catsfield Manor)	..	Major Y. A. Burges	..	TQ(51)729133	230	...	29·34	168	120
D	Cowbeech (Pumping Station)	..	Bexhill Waterworks	..	TQ(51)611150	100	...	27·80	146	119
d	Heathfield (Birchford Farm)	..	Mrs. D. Hook	.. ..	TQ(51)622198	358	32·0	31·72	...	134
D	Heathfield (Cross-in-Hand)	..	C. Birnstingl, Esq.	.. ..	TQ(51)564202	305	...	33·29	181	133
6.—ROTHER. 194 sq. mi.										
d	Icklesham	.. ..	Kent River Board	.. ..	TQ(51)879165	150	...	27·41	...	122
D	Hastings (Fairlight Reservoir)	..	Water Engineer	.. ..	TQ(51)842121	513	...	28·83	171	131
d	Hastings (Fairlight, Machico)	..	E. J. Watts, Esq.	.. ..	TQ(51)878122	100	...	27·41	...	127
D	Brede (Pumping Station)	..	Water Engineer (Hastings)	..	TQ(51)814178	26	28·3	29·47	164	128
D	SEDLESCOMBE Rectory	.. ..	Rev. G. N. Martin	.. ..	TQ(51)776187	188	...	31·92	172	132
d	Udimore (The Wick)	.. ..	Major R. P. Mair	.. ..	TQ(51)886194	92	...	29·02	140	115
D	Playden (Scots Float)	.. ..	Kent River Board	.. ..	TQ(51)932226	14	...	26·45	145	123
d	Brightling Park	.. ..	Major M. Grissell	.. ..	TQ(51)682209	545	34·1	36·06	175	140
D	Brightling (Bleak House)	..	T. W. C. Terry, Esq.	..	TQ(51)683211	550	33·6	35·41	180	136
d	Robertsbridge (Darvell Hall San.)	..	Medical Superintendent	..	TQ(51)729229	100	29·1	31·29	...	128
d	Burwash (Burnt House Farm)	..	Mrs. S. Gregory	.. ..	TQ(51)656232	350	...	36·76	...	139
d	Burwash (Bateman's)	.. ..	S. T. Lees, Esq.	.. ..	TQ(51)670238	120	32·9	34·85	...	132
D	Iden (Havencroft)	.. ..	J. N. Baker, Esq.	.. ..	TQ(51)920238	133	...	28·03	166	124

DIVISION II—SOUTH-EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
SUSSEX—(contd.)				ft.	in.	in.		
6.—ROTHER—contd.								
D	Rye (Iden)	Admiral Sir Aubrey Smith	TQ(51)917241	150	...	24.66	154	116
D	Hawkhurst (BODIAM) (+A)	A. Guinness, Son & Co., Ltd.	TQ(51)785249	73	...	29.94	168	125
D	Hurst Green (Bellhurst Farm)	C. C. Langer, Esq.	TQ(51)723285	275	...	30.90	173	132
D	Northiam (Great Dexter)	Quentin Lloyd, Esq.	TQ(51)582125	209	29.5	27.60	160	125
D	Burwash (Crowhurst Bridge)	Heathfield Dist. Water Co.	TQ(51)681264	97	...	31.44	161	123
D	Wadhurst (Stonegate)	W. J. Wheeler, Esq.	TQ(51)652288	230	32.6	32.65	192	135
7.—MEDWAY. 117 sq. mi.								
D	Rotherfield (Horsegrove Farm)	F. W. Shaw, Esq.	TQ(51)556294	528	35.3	34.09	181	147
D	Crowborough (Jarvis Brook)	Crowborough Water Co. ..	TQ(51)540297	325	35.0	35.47	161	138
D	Jarvis Brook (Salters)	Gp. Capt. J. Hunnard		400	...	30.90	176	136
D	Tunbridge Wells (Cousley Wood)	A. Wilkin, Esq.	TQ(51)662337	415	...	30.04	178	146
D	Hartfield (Beechcroft)	Miss C. H. Foyster	TQ(51)464345	370	34.1	32.94	180	132
W	West Hoathly (Railway Station)	Weir Wood Water Board ..	TQ(51)371328	375	...	35.59	...	...
W	Whillett's Bridge	Weir Wood Water Board ..	TQ(51)378345	250	...	34.72	...	...
D	Forest Row (Rystcot)	Mrs. J. E. Brown	TQ(51)447342	200	...	33.13	165	131
D	West Hoathly (Duckyls)	Mrs. Craven Moore	TQ(51)352338	600	...	36.64	164	143
D	Weir Wood Reservoir	Weir Wood Water Board ..	TQ(51)406354	225	...	32.24	153	129
W	Kingscote Nursery	Weir Wood Water Board ..	TQ(51)367358	300	...	34.15	...	...
D	Frant (Henley Gardens)	Mrs. Benskin	TQ(51)597342	440	32.2	33.96	186	147
D	Frant (Eridge Castle)	Mr. P. M. Ward	TQ(51)564356	400	34.3	32.92	165	137
D	EAST GRINSTEAD (Coombe Hall School)	Headmaster	TQ(51)387371	442	...	30.65	160	121
D	Crawley Down (Sandhill Gate Cottage)	Mrs. A. A. Styles	TQ(51)348372	400	34.0	31.34	...	...
8.—THAMES. Mole. 27 sq. mi.								
D	Crawley (Broadfield) (+A)	M. Milne, Esq., B.Sc. ..	TQ(51)263345	300	...	32.17	172	128
W	Turner's Hill	Weir Wood Water Board ..	TQ(51)335361	450	...	34.49	...	...
D	Worth (Worth Lodge)	Miss M. C. Nix	TQ(51)307364	340	31.6	33.05	168	122
D	Crawley (The Beeches)	M. Longley, Esq.	TQ(51)271362	220	31.2	31.41	158	124
9.—THAMES. Wey. 10 sq. mi.								
HAMPSHIRE. (Area, 1,627 sq. mi.)								
1.—ISLE OF WIGHT. 150 sq. mi.								
D	ST. CATHERINE'S POINT (Lighthouse) ..	Trinity House, for M.O. ..	SZ(40)506755	51	27.8	28.17	151	120
D	Ventnor (Castle Road)	E. W. Lale, Esq.	SZ(40)557774	170	...	32.40	166	130
D	VENTNOR PARK	Surveyor	SZ(40)560774	445	29.5	34.10	155	127
D	Shanklin (Victoria Avenue)	Isle of Wight Water Board	SZ(40)586816	170	...	38.50	185	156
D	SHANKLIN	Sandown & Shanklin U.D.C.	SZ(40)581808	180	...	37.14	164	128
d	Brighstone (Pitt Place Cottage)	Mr. J. Higgins		500	27.7	29.11	160	130
D	Chillerton (Waterworks)	Isle of Wight Water Board	SZ(40)491841	125	...	34.88	171	142
D	SANDOWN (Sandham Gardens)	Sandown & Shanklin U.D.C.	SZ(40)602844	13	...	29.90	159	118
D	Sandown (Pumping Station)	Isle of Wight Water Board	SZ(40)588850	60	...	30.83	155	120
d	The Needles	Mrs. G. E. Newnham ..	SZ(40)322862	340	...	28.86	...	119
D	Freshwater (Waterworks)	Isle of Wight Water Board	SZ(40)349858	9	...	30.53	158	120
D	Freshwater (Pumping Station)	Engineer in Charge	SZ(40)341872	5	28.8	30.41	159	122
D	Knighton (Waterworks)	Isle of Wight Water Board	SZ(40)568868	100	...	30.45	154	127
D	Carisbrooke (Waterworks)	Isle of Wight Water Board ..	SZ(40)487882	57	...	31.21	158	124
D	RYDE (Esplanade Gardens)	Borough Publicity Dept. ..	SZ(40)595929	13	29.0	29.58	162	122
D	§Cowes Waterworks (Broadfields)	Isle of Wight Water Board	SZ(40)489951	150	29.8	28.77	156	123
D	Osborne	House Governor	SZ(40)511951	177	32.7	30.45	167	127

|| Gauge over-sheltered.

§ Turf wall round gauge.

DIVISION II—SOUTH-EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
HAMPSHIRE—(contd.)				ft.	in.	in.		
2.—STOUR. 37 sq. mi.								
D	BOURNEMOUTH (Meyrick Park)	(+A) Medical Officer of Health ..	SZ(40)071917	130	31.5	27.95	167	120
D	Bournemouth (Rothesay Road)	.. Dr. D. N. Seth-Smith ..	SZ(40)073923	180	...	28.68	169	121
D	Bournemouth (East Avenue)	.. J. E. Hewitt, Esq. ..	SZ(40)076926	143	28.6	28.71	153	126
D	CHRISTCHURCH ..	.. W. Hants. Water Co. ..	SZ(40)155937	9	...	29.06	138	123
D	Christchurch (Hurn Bridge)	.. The Earl of Malmesbury ..	SZ(40)126967	19	...	29.60	...	...
D	HURN (Bournemouth Airport)	(+A) Meteorological Office ..	SZ(40)116978	33	...	28.99	156	116
3.—EAST AVON & C. 114 sq. mi.								
D	Christchurch (Harrow Lodge)	.. R. C. Bacon, Esq. ..	SZ(40)198971	135	31.3	30.97	169	132
D	Ringwood (Bisterne)	.. Col. Sir John Mills ..	SU(41)152006	43	30.9	32.31	158	124
D	Ringwood (Crow Hill)	.. L. Collings-Wells, Esq. ..	SU(41)178043	200	...	31.12	155	128
D	Ringwood (Hangersley)	.. Col. E. G. St. Aubyn, D.S.O.		200	...	30.15	170	115
D	RINGWOOD (Hightown)	.. Miss M. A. M. Penrose, B.Sc.		250	...	32.00	163	122
D	Ringwood (Grey Friars)	.. Miss H. Christy ..	SU(41)182056	50	28.4	33.14	150	122
D	Ringwood (Linwood)	.. Miss R. M. Haines ..	SU(41)180095	138	32.0	33.66	168	121
D	Fordingbridge (Furze Hill)	.. G. G. Smith, Esq. ..	SU(41)167112	150	...	30.71	157	124
4.—TEST & SOLENT. 551 sq. mi.								
D	Milford-on-Sea (Farlights)	.. Mrs. F. W. Brown ..	SZ(40)293926	50	...	30.26	182	134
D	Milford-on-Sea (Manor Road)	.. Miss M. B. Clark ..	SZ(40)287924	56	...	30.80	167	132
D	EVERTON (Efford)	.. Director, Exp. Hort. Stn. ..	SZ(40)303937	51	...	27.72	152	119
D	Lymington (Waterford)	.. G. Froome, Esq. ..	SZ(40)329949	6	...	27.35	161	120
	Sway (Little Flanders)	.. Rev. C. F. Ford ..		120	...	28.80	...	...
D	Lymington	.. Borough Engineer ..	SZ(40)319952	57	...	29.17	149	125
d	Holmsley (Toll House)	.. Forestry Commission ..	SU(41)225003	212	...	32.03	...	...
d	Exbury	.. L. N. de Rothschild, Esq. ..	SU(40)425001	80	29.2	28.56	...	...
D	Hythe (Butts Ash Lane)	.. Miss J. M. Baker ..	SU(41)422061	130	30.6	32.76	178	131
D	Bartley (The Nurseries)	.. Manager ..	SU(40)312131	100	32.0	32.11	175	135
D	SOUTHAMPTON (East Park)	.. Director, Ordnance Survey	SU(41)419119	65	30.9	29.94	163	128
D	Romsey (Embley Gardens)	.. A. White, Esq. ..	SU(41)323208	130	30.3	31.82	159	122
D	Romsey (Timsbury Pumping Station)	C. A. Bradley Esq., C.E. ..	SU(41)346255	99	29.8	29.98	153	118
D	Hursley (Merdon Manor)	.. Sir George Cooper, Bart. ..	SU(41)410266	360	...	33.36	167	134
D	Sparsholt	.. The Principal ..	SU(41)427319	360	...	34.04	162	128
D	Stockbridge (Houghton Lodge)	.. Col. R. C. O. Parker, O.B.E.	SU(41)344331	112	30.5	30.68	161	130
D	Stockbridge (Houghton Down Farm)	R. H. Pantling, Esq. ..	SU(41)338352	250	...	29.36	160	127
D	Crawley (Chilbolton Down)	.. G. W. S. Beale, Esq. ..	SU(41)409368	350	31.0	30.66	151	129
D	Stockbridge (LECKFORD Estate)	.. General Manager ..	SU(41)393365	385	...	29.49	157	118
d	Sutton Scotney (West Stoke Farm)	.. John Rowsell Ltd. ..	SU(41)477372	275	...	31.98	...	...
D	Sutton Scotney (Wonston Manor)	.. J. H. Gray, Esq. ..	SU(41)471381	233	...	29.22	164	119
D	Andover (Sewage Works)	.. Borough Surveyor ..	SU(41)360450	180	28.9	30.34	160	125
D	Andover (Waterworks)	.. Borough Surveyor ..	SU(41)363460	205	...	30.51	171	121
d	Grateley (Fox Farm)	.. W. Arnott, Esq. ..	SU(41)293432	300	...	29.42	...	...
D	Overton	.. Portals Ltd. ..	SU(41)519508	240	...	32.85	162	131
D	Worting (Manydown Park)	.. Col. A. S. Bates, D.S.O. ..		415	30.2	31.20	155	134
D	Whitchurch (Dumley Manor)	.. Sir Alfred Herbert ..	SU(41)452535	500	...	31.31	163	134
d	Linkenholt Manor	.. R. Dudley, Esq. ..	SU(41)358581	700	32.5	34.11	...	131
5.—ITCHEN & SPITHEAD. 422 sq. mi.								
D	HAYLING ISLAND	.. Engineer & Surveyor ..	SZ(40)716988	13	...	25.80	164	115
D	Gosport	.. Borough Surveyor ..	SZ(40)598998	30	28.8	26.70	158	118
D	SOUTHSEA (Southsea Common)	.. Medical Officer of Health ..	SZ(40)640990	7	27.7	24.92	156	113
D	Portsmouth (Eastney)	(+A) City Engineer ..	SZ(40)684993	12	25.3	25.89	149	114
D	Farlington (Pumping Station)	.. Portsmouth & Gosport W. Co.	SU(41)678058	78	28.5	27.80	163	130
D	Farlington Reservoirs	.. Portsmouth & Gosport W. Co.	SU(41)679060	117	28.9	27.99	164	129
D	Farlington (Filter Works)	.. Portsmouth & Gosport W. Co.	SU(41)679061	157	27.9	26.33	164	126

DIVISION II—SOUTH-EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957		
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
HAMPSHIRE—(contd.)					ft.	in.	in.		
5.—ITCHEN & SPITHEAD—(contd.)									
D	Havant (Portsmouth Waterworks)	..	Portsmouth & Gosport W. Co.	SU(41)711063	25	27·7	26·86	166	127
D	Fareham (West Street)	..	N. E. Neville, Esq. ..	SU(41)580063	41	30·2	28·95	159	127
D	Fareham (Maindell Waterworks)	..	Engineer & Surveyor ..	SU(41)589071	36	31·0	28·58	160	121
	Southwick (Pinsley Lodge)	..	Portsmouth & Gosport W. Co.	SU(41)637076	150	30·3	29·34	...	...
D	Havant (Leigh Park Farm)	.. (+ A)	Hampshire River Board ..	SU(41)721087	105	...	29·60	164	133
D	Woolston Depot	..	Engineer and Surveyor ..	SU(41)435104	13	30·0	29·80	153	122
	Idsworth (Water Tower)	..	Portsmouth & Gosport W. Co.	SU(41)729114	202	32·0	32·23	...	...
	Southwick (Upper Beckford Farm)	..	Portsmouth & Gosport W. Co.	SU(41)632110	112	30·8	29·52	...	...
D	Hambledon (Worlds End)	..	Portsmouth & Gosport W. Co.	SU(41)629118	115	...	30·45	165	132
D	Southampton (Bitterne Park)	..	W. E. White, Esq. ..	SU(41)441130	25	...	29·95	158	124
D	Southampton (Portswood)	..	Borough Engineer ..	SU(41)434146	10	29·7	30·60	167	125
D	Southampton (South Hill Reservoir)	..	C. A. Bradley, Esq., C.E. ..	SU(41)423159	201	30·8	30·26	154	133
D	Curdridge (Sunnyside)	..	Miss V. F. Cooke ..	SU(41)539137	95	30·7	34·75	221	151
D	Leydene (H.M.S. Mercury)	..	Portsmouth & Gosport W. Co.	SU(41)680190	675	...	41·00	170	138
	West Meon (Pumping Station)	..	Portsmouth & Gosport W. Co.	SU(41)649242	330	...	34·49	...	...
	Catherington Reservoir	..	Portsmouth & Gosport W. Co.	SU(41)696146	428	34·2	35·70	...	...
d	Swanmore (Holywell House)	..	Mrs. M. Portal ..	SU(41)596149	180	32·2	35·83	155	...
D	Hoe Pumping Station	..	Portsmouth & Gosport W. Co.	SU(41)567168	110	...	32·90	164	136
D	Soberton (Mislingford)	..	Portsmouth & Gosport W. Co.	SU(41)596142	136	31·7	33·32	169	133
D	Droxford (Upper Swanmore)	..	H. Gadsby, Esq. ..	SU(41)581174	312	33·2	34·44	175	138
d	Bishops Waltham (Wintershill Hall)	..	Mr. E. A. Roberts ..	SU(41)527184	300	...	32·23	166	138
d	Bishopstoke (Church Road)	..	A. Clark, Esq. ..	SU(41)466196	95	...	30·75	...	...
D	Petersfield (Ditcham Park)	..	Portsmouth & Gosport W. Co.	SU(41)748177	555	...	41·91	159	143
D	Otterbourne (Kingfisher Lodge)	..	Major T. T. Phelps ..	SU(41)468225	80	...	30·81	155	127
d	Otterbourne (Waterworks)	..	C. A. Bradley, Esq., C.E. ..	SU(41)465235	113	30·7	32·30	162	129
D	Twyford (Pumping Station)	..	C. A. Bradley, Esq., C.E. ..	SU(41)493249	138	31·1	32·13	152	128
D	WINCHESTER (Recreation Ground)	..	Medical Officer of Health ..	SU(41)484300	121	...	32·90	154	128
D	Winchester (Romsey Road W.W.)	..	City Water Engineer ..	SU(41)475294	270	...	32·48	144	124
D	Winchester (Bereweke Road)	..	J. L. St. John, Esq. ..	SU(41)475304	225	...	32·75	165	130
D	Winchester (Harestock)	..	C. M. Layton, Esq. ..	SU(41)469318	220	...	32·45	168	126
D	Bishop's Sutton	..	H. C. Mills, Esq. ..	SU(41)605319	260	...	31·41	166	132
D	Itchen Abbas (Chilland)	..	W. J. Arnold, Esq. ..	SU(41)526328	200	30·5	28·66	175	119
D	Itchen Abbas (The Down House)	..	Mrs. R. V. Savile ..	SU(41)529327	200	...	29·35	160	118
D	MARTYR WORTHY	..	Farm Director ..	SU(41)517338	275	...	28·67	148	119
D	Ellisfield Manor	..	S. E. Cooke, Esq. ..	635	...	...	31·68	174	136
6.—ARUN. 82 sq. mi.									
D	Liss	.. (+ A)	West Sussex River Board ..	SU(41)772271	195	...	35·61	166	133
D	Liss (Kippences)	..	Rev. W. L. de B. Thorold ..	SU(41)777285	250	33·3	34·83	150	126
	Greatham (Manor House)	..	Capt. A. F. Coryton, J.P. ..	SU(41)773301	260	32·5	33·36	...	...
7.—THAMES. Wey. 92 sq. mi.									
D	East Tisted (Rotherfield Park)	..	Col. J. B. Scott ..	SU(41)691322	555	...	37·76	181	143
D	Alton (Treloar Orthopaedic Hospital)	..	Secretary ..	SU(41)724387	350	32·8	30·90	163	123
D	Kingsley (Sleaford)	..	M. Nimmo, Esq. ..	220	29·0	30·60	181	124	
D	Alton (Lasham Pumping Station)	..	Mid-Wessex Water Co. ..	SU(41)685413	407	...	31·32	172	129
D	ALICE HOLT LODGE	..	Forest Research Station ..	SU(41)804430	378	29·5	28·74	169	133
8.—THAMES. Loddon. 164 sq. mi.									
w	Swainshill	..	Mid-Wessex Water Co. ..	SU(41)721441	550	31·3	30·96	...	...
D	LONG SUTTON	..	Lord Wandsworth College	SU(41)748467	512	30·1	27·32	169	123
D	Basingstoke (Upton Grey House)	..	Mr. H. W. Kinge ..	SU(41)693485	400	28·8	27·39	177	125
D	Aldershot (Waterworks)	..	Mid-Wessex Water Co. ..	SU(41)864493	251	27·0	26·22	169	126
D	Aldershot Reservoirs	..	Mid-Wessex Water Co. ..	SU(41)859502	393	27·2	26·09	175	121
D	Odiham (Sewage Works)	..	Hartley Wintney R.D.C. ..	SU(41)739521	239	...	24·69	156	121
D	Greywell (Pumping Station)	..	Mid-Wessex Water Co. ..	SU(41)724514	263	26·3	24·61	175	122

DIVISION II—SOUTH-EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
HAMPSHIRE—(contd.)				ft.	in.	in.		
8.—THAMES. Loddon—(contd.)								
d	Hook (Nately Hatch)	Norman A. Lee, Esq. ..	SU(41)708533	328	26·7	25·56	...	119
d	Hartley Wintney (S.D. Works) ..	Hartley Wintney R.D.C. ..	SU(41)768580	180	25·8	24·67	...	123
d	BLACKBUSHE Airport (+A)	Meteorological Office ..	SU(41)816589	324	...	24·08	152	113
d	SOUTH FARNBOROUGH (R.A.E.) (+A)	Meteorological Office ..	SU(41)867544	226	26·1	23·65	164	116
d	Winchfield (Elvetham Park)	Mr. T. J. Brownjohn ..	SU(41)782563	217	...	24·03	...	...
d	Heckfield (Park Corner)	Mr. W. Smith ..	SU(41)715627	257	24·6	27·76	195	131
9.—THAMES. Kennet. 65 sq. mi.								
d	Kingsclere (Isle Hill)	C. E. Harvard, Esq. ..	SU(41)503581	500	...	34·77	180	142
d	Silchester House	T. M. Hartley, Esq. ..	SU(41)627617	305	25·0	25·43	154	115
BERKSHIRE. (Area, 722 sq. mi.)								
1.—TEST. 2 sq. mi.								
2.—THAMES. Bourne. 15 sq. mi.								
d	Sunninghill (Blacknest Pumping Station)	Surveyor, Windsor R.D.C.	SU(41)959687	130	26·0	24·97	156	118
d	Sunninghill (Cedars)	H. B. Turle, Esq. ..	SU(41)939686	275	...	25·77	174	125
3.—THAMES. Loddon & c. 162 sq. mi.								
d	FINCHAMPSTEAD	J. R. Allison, Esq. ..	SU(41)792633	212	...	24·71	162	120
d	Wellington College	R. Moss, Esq., M.A., B.Sc.	SU(41)833635	290	26·4	22·48	...	...
d	Beech Hill (Waveney)	Miss D. Page-Roberts ..	SU(41)699643	220	...	26·83	159	123
d	Broadmoor Institution	Medical Superintendent ..	SU(41)852638	300	27·6	22·99	...	...
d	Wokingham (Bucks Copse)	Borough Surveyor ..	SU(41)805682	174	24·7	25·76	165	130
d	Shinfield Grange	Prof. of Horticulture ..	SU(41)740688	149	...	23·77	157	114
d	WOKINGHAM (ST. CRISPIN'S SCHOOL) ..	Headmaster ..	SU(41)821686	200	...	23·75	149	118
d	Wokingham (Reading Road)	P. Chandler, Esq. ..	SU(41)794697	182	...	24·95	163	120
d	Wokingham (Winnersh Nursery) ..	J. T. Adams, Esq. ..	SU(41)774709	180	...	24·48	144	115
d	Earley (Wokingham Road)	W. Bates, Esq. ..	SU(41)764716	150	...	23·74	153	112
d	Billingbear Lodge	L. A. Hackett, Esq. ..	SU(41)824718	183	...	25·11	160	114
d	Warfield (Jealott's Hill)	Imperial Chem. Indust., Ltd.	SU(41)873733	220	25·8	24·91	170	125
d	READING (SEED TRIAL GROUNDS) ..	Martin A. F. Sutton, Esq.	SU(41)738738	141	...	24·40	141	111
d	Sonning (University Farm)	R. S. Tayler, Esq. ..	SU(41)763755	168	...	27·37	...	...
d	Twyford (Beenham's Heath)	Mid-Wessex Water Co. ..	SU(41)851751	139	...	24·17	152	118
d	Old Windsor (Straight Road) ..	J. W. E. Bye, Esq. ..	SU(41)987741	59	...	23·10	160	111
d	Windsor (Royal Gardens)	Head Gardener ..	SU(41)979754	88	24·9	24·42	158	117
d	Wargrave (Piggott School)	Headmaster ..	SU(41)785775	124	...	24·32	150	118
d	Wargrave (The Thatched House) ..	Mrs. E. Sharp ..	SU(41)788792	200	...	23·84	160	126
d	Maidenhead (Sewage Works) .. (+A)	Borough Engineer ..	SU(41)891805	81	...	22·59	158	109
d	Maidenhead Reservoir	Mid-Wessex Water Co. ..	SU(41)874808	180	...	23·25	...	...
d	Maidenhead (Boulter's Lock)	Thames Conservancy ..	SU(41)903824	82	...	23·42	159	123
d	Cookham (The Sol)	C. Bradshaw, Esq. ..	SU(41)902851	90	...	24·42	...	114
d	Hambleden Lock	Mr. G. O'Connor ..	SU(41)781852	105	27·0	27·89	...	126
d	HURLEY (Hall Place Farm)	Director, Grassland Res. Inst.	SU(41)822823	140	...	25·66	154	120
4.—THAMES. Kennet & c. 224 sq. mi.								
d	Inkpen (New Mill)	G. C. Goodhart, Esq. ..	SU(41)380647	485	32·5	34·74	178	138
d	Mortimer (Grazeley Green)	P. L. d'E. Skipwith, Esq. ...	SU(41)677678	164	26·1	26·29	143	115
d	||Kintbury (Harold Road)	C. S. Drummond, Esq. ..	SU(41)390666	365	...	30·11	169	131
d	Kintbury (Sewage Works)	C. S. Drummond, Esq. ..	SU(41)394672	310	...	30·61	168	133
d	Newbury (Gloucester Road)	L. Giles, Esq. ...	SU(41)465669	250	...	29·71	152	134
d	SHINFIELD (University Hort. Farm)(+A)	Prof. R. H. Stoughton, D.Sc.	SU(41)734686	200	...	23·84	155	112

|| Gauge over-sheltered.

DIVISION II—SOUTH-EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957			
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more	
BERKSHIRE—(contd.)					ft.	in.	in.			
4.—THAMES. Kennet & c.—(contd.)										
D	WOOLHAMPTON (Douai Abbey)	..	The Abbot .. ..	..	SU(41)577681	370	...	25.58	172	125
D	Reading Waterworks (Bath Road)	..	O. Kean, Esq., C.E. ..	..	SU(41)702728	217	24.4	24.65	162	122
D	Reading (Forbury Gardens)	..	K. H. Thorpe, Esq. ..	..	SU(41)719736	145	24.9	25.83	158	120
D	READING (University)	..	..	..	SU(41)738748	152	...	25.23	168	121
D	Reading (Caversham Lock)	..	(+A) Thames Conservancy	..	SU(41)720740	123	...	25.12	150	121
D	Caversham (St. Peter's Hill)	..	J. A. Sargent, Esq. ..	..	SU(41)706752	210	25.0	25.27	148	125
D	Chieveley (Priors Court)	..	..	..	SU(41)486738	403	...	28.37	175	131
5.—THAMES. Ock & c. 319 sq. mi.										
D	Cold Ash (The Ridge)	..	Mrs J. Lawrence .. ..	..	SU(41)519698	488	...	26.71	163	133
D	Stanford Dingley (Dingley Cottage)	..	C. O. Lowsley, Esq. ..	..	SU(41)580707	400	...	25.58	172	135
d	Reading (Englefield)	..	..	..	SU(41)625721	175	27.4	27.38	159	...
d	Yattendon (Yattendon Court)	..	J. F. N. Grange, Esq. ..	..	SU(41)559744	360	...	25.42	...	...
d	Ashampstead (Pyt House)	..	Capt. F. M. M. Carlisle	..	SU(41)578760	260	...	25.85	...	...
D	Wantage (Lockinge Estate Office)	..	Capt. J. H. Lane Fox ..	..	SU(41)428867	400	27.8	28.03	141	118
D	Cholsey (School House)	..	..	..	SU(41)587868	150	...	27.76	167	127
D	Cholsey (Bow Bridge)	..	..	..	SU(41)605875	142	24.9	26.10	158	118
D	Cholsey (Sewage Works)	..	..	..	SU(41)590872	150	...	26.80	171	125
D	Didcot (Sewage Works)	..	..	..	SU(41)572908	170	...	24.67	185	133
D	Steventon (Hanney Road)	..	..	..	SU(41)466922	250	...	23.79	148	125
D	Great Coxwell (Court House Farm)	..	A. B. Williams, Esq. ..	..	SU(41)269939	350	...	26.43	148	118
D	Abingdon (Sewage Works)	..	..	..	SU(41)496959	170	22.8	22.91	176	114
D	Abingdon (The Firs)	..	..	..	SU(41)487971	180	23.7	24.46	165	124
D	Abingdon (Christ's Hospital)	..	..	..	SU(41)487970	190	...	23.11	167	115
d	Abingdon (Norman Avenue)	..	..	..	...	200	...	26.18	184	130
d	Buckland	..	..	..	SU(41)345982	310	...	24.23	...	...
D	Abingdon (Frilford Heath)	..	..	..	SU(41)447983	240	...	23.01	170	116
D	ABINGDON Airfield	..	(+A) Meteorological Office	..	SU(41)482990	210	...	23.06	155	109
d	Abingdon (Sandford Lane Sew. Wks.)	..	..	..	SP(42)528008	220	...	23.98	...	...
D	Abingdon (Wootton Waterworks)	..	..	..	SP(42)468013	265	...	23.30	137	111
D	Boars Hill (Blackthorn)	..	..	..	SP(42)487019	410	25.6	25.38	165	115
D	Oxford (Kennington Nursery)	..	..	..	SP(42)518029	350	24.7	27.97	158	114
D	Eynsham (Swinford Pumping Station)	..	..	..	SP(42)446085	203	...	26.81	157	116

DIVISION III—SOUTH MIDLAND COUNTIES

MIDDLESEX. (Area, 232 sq. mi.)

1.—THAMES. Colne & Brent. 185 sq. mi.							
D Weybridge (Shepperton Lock) ..	Thames Conservancy ..	TQ(51)074659	41	23.1	23.23	154	118
D Littleton (Queen Mary Reservoir) ..	Metropolitan Water Board ..	TQ(51)059697	44	23.0	23.75	137	109
D HAMPTON (Waterworks) ..	(+A) Metropolitan Water Board ..	TQ(51)134694	39	22.7	23.47	164	111
D Kempton (Waterworks) ..	Metropolitan Water Board ..	TQ(51)111710	40	22.6	24.36	151	105
D Hampton (Refuse Disposal Works) ..	F. L. Higgins, Esq. ...	TQ(51)131715	60	...	25.74	141	113
D Teddington (Stanley Road) ..	G. Nicholson, Esq. ...	TQ(51)150718	42	...	24.89	160	116
D Hampton Hill (Lindsay Road) ..	P. C. Clarke, Esq. ...	TQ(51)139715	50	...	25.12	158	113
D Staines (Pumping Station) ..	Metropolitan Water Board ..	TQ(51)042719	55	...	25.41	152	112
D Staines Reservoir (West Side) ..	Metropolitan Water Board ..	TQ(51)046730	53	23.8	25.69	152	113
D Isleworth (Mogden Works) ..	(+A) C. B. Townend, Esq., C.E. ..	TQ(51)154753	33	...	22.97	168	116
d Longford (Perry Oaks Disp. Works) ..	C. B. Townend, Esq., C.E. ..	TQ(51)060759	77	...	21.75	...	...
D Hounslow (Pownall Gardens) ..	P. W. Miller, Esq. ..	TQ(51)136749	70	...	23.46	142	114
D Hounslow (Berkeley Avenue) ..	J. E. Cacutt, Esq. ..	TQ(51)103765	80	...	23.20	157	107
D LONDON AIRPORT ..	(+A) Meteorological Office ..	TQ(51)077768	82	...	21.95	149	104
D Kew Bridge (Waterworks) ..	Metropolitan Water Board ..	TQ(51)185781	36	24.1	22.04	169	114
D Harmondsworth (Road Res. Lab.) (+A) ..	D.S.I.R. ..	TQ(51)055773	80	...	23.58	167	109

DIVISION III—SOUTH MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
MIDDLESEX—(contd.)				ft.	in.	in.		
1.—THAMES. Colne & Brent—(contd.)								
d	Southall (Ascot Gardens)	.. .. P. J. T. Barbary, Esq.	TQ(51)131818	105	...	20.90	...	...
d	Hayes	.. .. H. J. Harley, Esq.	TQ(51)097810	120	...	22.51	156	119
d	Hayes (Parkside)	.. .. S. J. Wilson, Esq.	TQ(51)095809	103	...	22.46	163	108
d	Ealing (Hanger Hill Reservoir)	.. Metropolitan Water Board	TQ(51)181818	206	24.7	22.83	...	...
d	Uxbridge	.. .. E. H. Hamson, Esq.	TQ(51)056847	160	...	22.42	...	...
d	Cowley	.. .. Mrs. M. Hamson	TQ(51)053818	100	...	23.19	163	118
d	Willesden Reservoir	.. .. Metropolitan Water Board	TQ(51)225841	167	25.6	22.67	...	...
d	Willesden (Stonebridge Park)	.. Borough Engineer	TQ(51)201841	100	...	23.77	151	114
d	Northolt Airport	.. .. (+A) Meteorological Office	TQ(51)097846	131	...	21.30	...	...
d	Wembley (Town Hall)	.. .. (+A) Borough Engineer	TQ(51)197866	187	...	20.76	147	107
d	Harrow (Oakhurst)	.. .. A. Gardner, Esq.	TQ(51)147862	295	24.2	21.86	173	111
d	Harrow (Eastcote Lane)	.. .. (+A) D. M. Woodman, Esq.	TQ(51)139864	175	...	21.51	151	106
d	Brent Reservoir	.. .. (+A) British Waterways	TQ(51)209870	138	...	21.98	163	106
d	Kingsbury (Dors Close)	.. .. B. P. FitzGerald, Esq.	TQ(51)207874	155	...	21.76	153	103
d	Rayners Lane (High Worples)	.. .. R. H. Daw, Esq.	TQ(51)127875	153	...	21.55	169	108
d	Ruislip	.. .. (+A) Middlesex County Council	TQ(51)090879	142	...	22.26	166	122
d	Harrow (Wellton Crescent)	.. .. S. Hyla Greaves, Esq.	TQ(51)156883	200	...	22.39	161	112
d	Hendon (Council Depot)	.. .. J. L. Pelham, Esq., C.E.	TQ(51)239875	157	...	21.85	147	100
d	Hampstead Gdn. Suburb (Hurst Close)	.. .. E. Gold, Esq., F.R.S.	TQ(51)257883	260	...	23.81	155	107
d	Finchley (Church End)	.. .. Sister Marie Jacques	TQ(51)255900	296	...	24.80	142	107
d	Pinner (Hillcrest Avenue)	.. .. P. R. Hands, Esq.	TQ(51)117893	170	...	24.04	180	118
d	WEALDSTONE (Kodak Works)	.. .. Kodak Ltd.	TQ(51)144897	175	25.3	23.27	176	115
d	Stanmore	.. .. (+A) Harrow U.D.C.	TQ(51)159921	281	26.7	25.15	163	116
d	Mill Hill (Barnet Way)	.. .. Major N. G. Brett-James	TQ(51)248928	308	...	22.62	144	107
w	Barnet (Old Ford View)	.. .. Capt. C. E. Mills	TQ(51)233966	360	...	25.09	...	...
d	Potters Bar (Mountgrace C'ty Sch.)	Headmaster	TL(52)256020	375	27.1	24.28	151	108
2.—THAMES. Lea. 47 sq. mi.								
d	Crouch End (Priory Park)	.. .. Hornsey Borough Council	TQ(51)299891	118	25.8	23.29	148	108
d	Hornsey (High Street)	.. .. Metropolitan Water Board	TQ(51)307893	107	24.9	22.19	141	99
d	Muswell Hill (Council Nurseries)	.. .. Hornsey Borough Council	TQ(51)278909	209	26.1	23.19	144	109
d	Finchley (Avenue House)	.. .. P. M. Spencer, Esq., C.E.	TQ(51)252902	278	26.3	26.09	151	119
d	Palmers Green (Broomfield Park)	.. .. Borough Engineer	TQ(51)304925	136	24.7	23.37	149	111
d	ENFIELD (Sewage Works)	.. .. (+A) Engineer & Surveyor	TQ(51)359949	43	...	20.50	127	100
d	SOUTHGATE (Oakwood Park)	.. .. (+A) Borough Engineer	TQ(51)299952	220	...	23.22	139	107
d	Enfield (Southbury Road)	.. .. Metropolitan Water Board	TQ(51)332965	148	24.7	20.23	134	101
d	Enfield (Forty Hill)	.. .. G. H. Pearce, Esq., F.R.C.S.	TQ(51)338983	125	...	22.33	154	110
d	Enfield (Hadley Road Pump. Stn.)	.. .. Metropolitan Water Board	TQ(51)302980	140	...	21.74	144	107
d	Enfield (Whitewebbs Park)	.. .. Engineer & Surveyor	TQ(51)326989	120	...	20.55	125	99
d	Enfield (King George's Pump. Stn.)	.. .. Metropolitan Water Board	TQ(51)372979	52	...	20.11	...	...
d	Waltham Cross (Sewage Works)	.. .. Cheshunt U.D.C.	TQ(51)367997	61	22.6	20.90	133	104
HERTFORDSHIRE. (Area, 635 sq. mi.)								
1.—THAMES. Thame. 10 sq. mi.								
2.—THAMES. Colne & Brent. 199 sq. mi.								
d	Maple Cross (Sewage Works)	.. .. Colne Valley Sewerage Bd.	TQ(51)037922	137	...	23.85	...	...
d	Northwood (St. Mary's Avenue)	.. .. R. H. Daw, Esq.	TQ(51)091923	231	...	24.36	167	121
d	Bushey Heath (California Lane)	.. .. Miss C. C. Cooper	TQ(51)147940	550	26.0	24.53	...	...
d	Bushey Heath Reservoir	.. .. Colne Valley Water Co.	TQ(51)151942	520	26.1	25.13	178	117
d	Totteridge (Great Bushey Drive)	.. .. J. Monger, Esq.	TQ(51)259941	250	26.9	23.62	180	114
d	Batchworth (Pumping Station)	.. .. L. F. Hobbs, Esq., C.E.	TQ(51)063940	156	26.5	25.92	157	119
d	Chorleywood (Berry Lane)	.. .. M. B. King, Esq.	TQ(51)035955	230	...	25.48	162	112
d	East Barnet (Sewage Disposal Wks.)	(+A) East Barnet U.D.C.	TQ(51)284938	137	...	22.41	150	104

DIVISION III—SOUTH MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
HERTFORDSHIRE—(contd.)				ft.	in.	in.		
2.—THAMES. Colne & Brent—(contd.)								
	East Barnet (Grammar School)	East Barnet U.D.C.	TQ(51)278955	270	...	23.65	...	...
D	East Barnet (Tudor Sports Ground)	East Barnet U.D.C.	TQ(51)262968	229	...	23.16	164	108
D	Barnet (Sewage Works)	(+A) E. Scott, Esq., C.E.	TL(52)247954	296	...	24.50	155	114
D	Boreham Wood (Furzehill Road)	H. T. Court, Esq.	TQ(51)193964	302	...	25.45	146	109
D	Boreham Wood (Shenley Road)	(+A) Elstree U.D.C.	TQ(51)194965	300	...	25.36	142	112
w	Elstree (Aldenham Reservoir)	Colne Valley Water Co.	TQ(51)171957	330	26.5	25.31	...	...
D	Watford (Aldenham Road)	Colne Valley Water Co.	TQ(51)120958	204	25.6	22.11	158	110
D	Watford (Waterworks)	L. C. Kimberlin, Esq., C.E.	TQ(51)114958	170	25.9	24.83	172	126
D	Watford (Callowland)	K. C. Rees, Esq.	TQ(51)112993	250	...	20.86	155	110
D	Garston (Building Research Stn.)	(+A) Director	TL(52)125015	250	26.2	21.93	156	106
D	Kings Langley (Fir Tree Cottage)	Miss H. M. Toms	TL(52)073026	278	28.1	26.22	172	119
D	BOVINGDON Airport	(+A) Meteorological Office	TL(52)007038	516	...	24.90	158	110
D	North Mimms (Pumping Station)	(+A) Barnet District Water Co.	TL(52)233037	254	...	23.93	149	101
d	Hemel Hempstead (Apsley Mills)	J. Dickinson & Co. Ltd.	TL(52)065049	268	27.9	(23.88)	(172)	(117)
	Boxmoor (Moorlands)	L. W. Swainson, Esq.	TL(52)041064	300	28.3	24.51	...	...
D	Hemel Hempstead (Piccotts End)	A. H. Turner, Esq., C. E.	TL(52)048092	300	...	23.94	160	114
d	Colney Heath (Tyttenhanger Pump. Stn.)	Barnet District Water Co.	TL(52)198057	241	25.7	21.09	143	102
D	St. Albans (Holywell Hill)	L. W. Ball, Esq.	TL(52)146066	250	...	23.56	152	110
D	St. Albans (Stonecross Pumping Stn.)	L. W. Ball, Esq.	TL(52)151080	420	...	23.66	150	114
D	ST. ALBANS (Oaklands)	Hertfordshire Inst. of Agric.	TL(52)182076	272	24.9	22.39	144	103
D	Hatfield (Roe Green)	Dr. K. Hutton, M.A.	TL(52)214073	267	...	20.67	143	100
D	Hatfield (Pumping Station)	Barnet District Water Co.	TL(52)220077	340	26.0	20.92	156	109
D	Berkhamsted (Rossway)	Maj. A. G. N. Hadden-Paton	SP(42)959072	400	...	29.92	184	126
D	Berkhamsted (Amersfort)	W. S. Cohen, Esq.	TL(52)008084	520	...	26.02	158	115
D	Tring (Cowroast Lock)	British Waterways	SP(42)957104	390	28.4	25.03	146	115
D	Tring (New Ground Pumping Station)	Bucks Water Board	SP(42)950107	432	28.4	25.20	160	114
d	Berkhamsted (Ashridge Park)	Mrs. Francis Johnston	SP(42)996113	550	...	24.51	...	...
D	§Harpenden (ROTHAMSTED)	(+A) Lawes Agricultural Trust	TL(52)132134	420	27.3	23.82	173	115
D	Harpenden (Rothamsted)	Lawes Agricultural Trust	TL(52)132134	420	28.6	25.26	184	118
D	Markyate (Waterworks)	I. Wilson, Esq.	TL(52)052159	538	...	25.17	161	122
3.—THAMES. Lea. 340 sq. mi.								
d	Cheshunt (Cemetery)	Cheshunt U.D.C.	TL(52)345024	160	...	21.73	...	...
D	Northaw (Arish Mell)	W. T. Webster, Esq.	TL(52)284025	300	...	24.69	168	115
D	Cheshunt Yard	Metropolitan Water Board	TL(52)353036	114	24.1	20.82	146	103
D	Cheshunt (Darnicle Hill Pumping Stn.)	Metropolitan Water Board	TL(52)309048	250	26.2	23.79	154	106
D	Broxbourne (Broxbournebury)	Mr. D. Cake	TL(52)369072	135	...	21.70	170	110
	Hoddesdon	H. F. Hayllar, Esq.	TL(52)372085	130	23.7	20.62	...	...
D	Hatfield (Essendon)	Lee Conservancy Catchm. Bd.	TL(52)277073	360	...	23.72	173	106
D	Hoddesdon (Feilde's Weir)	Metropolitan Water Board	TL(52)392092	95	23.7	21.76	142	111
D	BAYFORDBURY	Curator, J. Innes H.I.	TL(52)315103	221	23.1	21.96	150	107
D	EASTWICK LODGE Farm	Harlow Development Corp.	TL(52)437118	160	...	22.52	165	111
D	Sawbridgeworth (Pumping Station)	Herts & Essex Water Co.	TL(52)465131	180	...	21.69	153	106
D	Hertford (Cole Green)	Lee Conservancy Catchm. Bd.	TL(52)280116	240	...	21.44	(166)	(115)
D	Welwyn Garden City (Sewage Wks.)	Engineer & Surveyor	TL(52)252136	246	24.7	20.51	156	103
D	Hertford (Sewage Works)	(+A) Metropolitan Water Board	TL(52)338134	123	23.3	21.47	149	107
D	Ware (Amwell End Pumping Stn.)	Metropolitan Water Board	TL(52)361139	105	23.5	21.01	155	110
D	Ware (Chadwell Spring)	Metropolitan Water Board	TL(52)350137	140	24.2	20.37	152	102
D	Ware (Collett Road)	Mrs. L. E. Gull	TL(52)358148	150	...	21.44	151	111
D	Harpenden (Sauncey Avenue)	M. Jennings, Esq.	TL(52)139150	383	...	23.49	167	113
D	Hadham (Pumping Station)	Herts & Essex Water Co.	TL(52)420166	170	...	20.06	142	111
d	Welwyn (Sewage Works)	Surveyor, U.D.C.	TL(52)233157	260	...	20.96	...	103
d	Welwyn (Mill Lane)	Mrs. M. H. L. Gilliat	TL(52)233162	240	...	23.95	140	119
D	Hertford (Chapmore End)	Lee Conservancy Catchm. Bd.	TL(52)327164	180	...	20.14	166	107
D	Knebworth (Bulls Green)	Lee Conservancy Catchm. Bd.	TL(52)270174	407	...	22.69	167	112

|| Site unorthodox.

§ Turf wall round gauge.

DIVISION III—SOUTH MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
HERTFORDSHIRE—(contd.)				ft.	in.	in.		
3.—THAMES. Lea—(contd.)								
D	Ware (Barwick)	Lee Conservancy Catchm. Bd.	TL(52)380190	190	...	22.38	154	117
D	Much Hadham (Moor Place) ..	R. C. Norman, Esq. ..	TL(52)422187	270	...	22.22	156	115
D	Bishop's Stortford (Castle Mound)(+A)	Engineer & Surveyor ..	TL(52)490215	224	...	22.04	157	107
d	Ware (St. Edmunds College) ..	Headmaster	TL(52)371221	384	...	22.58	...	...
	Ware (Little Munden School) ..	Lee Conservancy Catchm. Bd.	TL(52)330225	320	...	19.77	...	...
D	Breachwood Green	Lee Conservancy Catchm. Bd.	TL(52)155222	489	25.9	22.64	184	115
D	Bishop's Stortford (Dunmow Road) ..	H. J. Holmes, Esq. ..	TL(52)499213	290	...	23.99	168	119
D	Little Hadham (Hadham Hall) ..	Herts County Council ..	TL(52)453227	338	24.5	22.08	170	117
D	Whitehall (Pumping Station) ..	Stevenage Development Corp.	TL(52)284220	231	...	22.82	166	115
D	Stevenage (Broomin Green) .. (+A)	Stevenage Development Corp.	TL(52)229241	307	...	23.11	156	108
D	Hitchin (Preston Hill Farm) ..	F. H. Maybrick, Esq. ..	TL(52)180240	484	25.2	22.32	147	106
D	Braughing (Upp Hall)	Mr. W. S. Pimblett ..	TL(52)409242	370	...	20.26	168	112
D	Stevenage (Pin Green)	Stevenage Development Corp.	TL(52)250257	452	...	23.51	160	115
D	Ardeley Bury	Lee Conservancy Catchm. Bd.	TL(52)300270	356	...	23.35	160	111
D	Buntingford (Chipping)	Lee Conservancy Catchm. Bd.	TL(52)355323	340	...	21.18	154	110
D	Meesden	(+A) Lee Conservancy Catchm. Bd.	TL(52)426327	450	...	24.92	175	118
4.—OUSE. 86 sq. mi.								
d	Preston (Sadleirs End)	H. F. Briggs, Esq. ..	TL(52)180250	500	...	22.93	...	...
D	Hitchin (Knightswood)	H. Cooke, Esq. ..	TL(52)187297	300	...	23.69	179	110
D	Letchworth (Museum)	(+A) Surveyor U.D.C. ..	TL(52)217324	290	22.4	22.92	154	112
D	Barley (Dalnyveed)	W. F. Sermons, Esq. ..	TL(52)399390	300	...	20.75	141	106
D	Royston (Earls Hill House) ..	Col. E. C. M. Phillips, D.S.O.	TL(52)355407	225	23.6	22.84	176	118
BUCKINGHAMSHIRE. (Area, 743 sq. mi.)								
1.—THAMES. Cherwell. 30 sq. mi.								
2.—THAMES. Thame. 158 sq. mi.								
D	Princes Risborough (Research Lab.)	Director	SP(42)798029	333	...	25.59	165	123
D	Monks Risborough (Waterworks) ..	Bucks Water Board ..	SP(42)814046	363	...	26.71	158	124
D	AYLESBURY (County Farm)	Bucks Education Committee	SP(42)842114	316	...	22.50	146	109
D	Wendover (Dobbins Lane)	Bucks Water Board ..	SP(42)861082	402	...	26.21	167	118
D	Tring (Dancers End Pumping Station)	Bucks Water Board ..	SP(42)906090	650	...	25.70	159	119
D	Tring (Bulbourne)	British Waterways ..	SP(42)931136	401	26.2	24.31	165	115
D	Tring (Wilstone)	E. L. Hawke, Esq., M.A. ..	SP(42)905142	308	...	23.03	182	118
D	Aylesbury (Sewage Works)	Engineer & Surveyor ..	SP(42)805142	251	25.9	23.44	151	121
D	Mentmore Gardens	Mr. T. Lindores ..	SP(42)906196	400	25.0	26.66	168	112
3.—THAMES. Wye & c. 129 sq. mi.								
D	Eton (Tangier Island)	(+A) G. S. Baker, Esq. ..	SU(41)968777	67	24.6	22.17	155	116
D	Slough (Upton)	Mrs. L. R. Bentley ..	SU(41)983792	78	23.9	22.32	156	117
D	Slough (Baylis House)	(+A) Borough Engineer ..	SU(41)970808	90	...	22.28	159	118
D	Taplow Court Gardens	G. H. Emmett, Esq. ..	SU(41)906822	212	...	23.22	162	119
D	Henley-on-Thames (Greenlands) ..	Administrative Staff College	SU(41)775854	125	27.1	25.41	169	121
D	Burnham (Waterworks)	Engineer	SU(41)929829	180	...	23.71	152	118
D	Hambleden (Hatchmans)	Mr. L. J. R. Coates ..	SU(41)780881	185	...	31.68	158	128
D	High Wycombe (Pann Mill Pump. Stn.)	S. Young, Esq. ..	SU(41)874925	219	...	26.72	173	124
	High Wycombe (Lane End Reservoir)	S. Young, Esq. ..	SU(41)816918	659	...	28.23	...	...
D	Penn (Rayners)	Mr. R. Cole	SU(41)905935	547	29.4	30.61	186	132
D	Radnage (Hillmeadows)	C. A. Atchley, Esq. ..	SU(41)803957	550	...	27.54	178	128
D	Hampden House	The Earl of Buckinghamshire	SP(42)848024	695	29.2	28.06	164	143

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				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
BUCKINGHAMSHIRE—(contd.)					ft.	in.	in.		
4.—THAMES. Colne. 133 sq. mi.									
d	Slough (Ditton Park)	Admiralty	TQ(51)001778	70	24.7	22.18	...	...
d	Gerrards Cross (Mill Lane)	A. L. Carroll, Esq.	TQ(51)008882	280	26.4	25.68	170	114	
d	Denham (Golf Club)	Secretary	TQ(51)027881	210	26.4	25.34	...	...
d	Gerrards Cross (Bulstrode Gardens) ..	Miss F. Hill	SU(41)986884	280	27.2	25.92	...	...
d	Chalfont St. Peter (The Colony)	J. W. Edwards, Esq.	TQ(51)002927	340	27.3	26.07	169	121	
d	Little Chalfont (Coke's Lane)	T. H. Fowler, Esq.	SU(41)988968	425	...	25.41	167	119	
d	Amersham (Waterworks)	L. F. Hobbs, Esq., C.E.	SU(41)961970	292	...	26.16	164	118	
d	Amersham (Chestnut Lane)	R. L. Alexander, Esq.	SU(41)969987	500	...	27.80	150	127	
d	Great Missenden (Pumping Station) ..	L. F. Hobbs, Esq., C.E.	SU(41)910995	372	29.4	26.11	166	116	
d	Wendover (Pumping Station)	Bucks Water Board	SP(42)879039	486	30.8	28.97	170	117	
d	Chesham Vale (Hawridge Pumping Stn.)	Bucks Water Board	SP(42)956055	418	29.7	27.92	166	123	
5.—OUSE. 239 sq. mi.									
d	Wing (Burcott Lodge Farm)	B. B. Winter, Esq.	SP(42)876242	420	...	24.34	...	...
d	Swanbourne House School	H. A. C. Evans, Esq.	SP(42)799273	410	26.3	25.99	155	108	
d	Bletchley (Bletchley Park)	Mr. A. A. Stone	SP(42)866342	320	...	23.18	...	...
d	Bletchley (Sewage Works)	Bletchley U.D.C.	SP(42)886347	220	...	23.05	...	109	
d	Buckingham (Sandpit Farm)	R. Davis, Esq.	SP(42)703343	260	25.3	26.44	162	119	
d	Buckingham (Foxcote Pumping Stn.)	Bucks Water Board	SP(42)713357	305	...	26.74	175	118	
d	Newport Pagnell (Wolverton Road) ..	J. Coales, Esq.	SP(42)870436	182	23.2	24.31	169	116	
d	Olney (Waterworks)	Water Engineer	SP(42)873510	170	...	23.03	...	109	
d	Olney (Colchester House)	R. E. Sowman, Esq.	SP(42)890514	170	...	23.76	181	119	
d	Turvey (Brayfield House)	Major M. E. Farrer	SP(42)928520	180	23.3	24.53	180	121	
OXFORDSHIRE. (Area, 756 sq. mi.)									
1.—SEVERN. Upper Avon. 10 sq. mi.									
d	Sibford Ferris (West View)	B. W. Lamb, Esq.		570	...	27.28	179	124	
2.—THAMES. Windrush & c. 261 sq. mi.									
d	Kelmscott	W. R. Hobbs, Esq.	SU(41)244994	230	24.8	22.83	...	104	
d	Milton-under-Wychwood (Castle Fm.)	H. B. Edginton, Esq.	SP(42)237157	550	...	29.33	174	127	
d	Charlbury (Cornbury Park)	Head Gardener	SP(42)347175	420	...	31.46	...	124	
d	Chadlington (The Manor)	Paul Handy, Esq.	SP(42)333219	400	...	26.11	...	127	
d	Glympton Rectory	Rev. C. H. Cox	SP(42)426213	310	...	29.74	184	123	
d	Chipping Norton (Heythrop College)	Meteorologist	SP(42)363266	600	28.0	29.38	182	121	
d	Chipping Norton (Stonecroft)	H. Sandels, Esq.	SP(42)313266	750	27.6	30.57	185	128	
3.—THAMES. Cherwell. 250 sq. mi.									
d	Littlemore (Sewage Farm) ... (+A)	City Engineer, Oxford	SP(42)550029	209	...	26.71	168	119	
d	Oxford (Hinksey Pumping Station) ..	H. H. Crawley, Esq., C.E. ...	SP(42)514049	187	24.0	28.13	155	123	
d	Oxford (Osney Lock)	Thames Conservancy	SP(42)503059	186	24.4	26.52	165	115	
d	Oxford (Richmond Road)	R. A. Bowen, Esq.	SP(42)507067	200	...	26.88	154	110	
d	Oxford (Norham Road)	Miss Josephine Fry	SP(42)515078	200	...	28.16	166	119	
d	OXFORD (Radcliffe Met. Station) (+A)	Professor of Geography	SP(42)509072	208	24.8	28.07	171	118	
d	Noke (Orchard Cottage)	J. H. C. Whitehead, Esq. ...	SP(42)546131	200	...	26.31	172	120	
d	Hampton Poyle (The Old Rectory) ..	Dr. G. D. Parkes	SP(42)499154	210	...	24.99	162	114	
d	Kidlington (Shipton-on-Cherwell) ..	Alpha Cement, Ltd.	SP(42)482174	250	...	24.70	...	...
d	Woodstock (The Retreat)	A. Edward Hobbs, Esq.	SP(42)461174	313	...	27.86	170	127	
d	Middleton Park	National Provincial Bank ..	SP(42)525234	326	25.8	27.51	160	144	
d	West Adderbury (Cross Hill)	Lt.-Col. H. E. du C. Norris ..	SP(42)466356	338	25.4	29.03	159	127	
d	Adderbury	Miss E. F. Spencer		350	...	27.22	170	122	
d	North Newington (Orchard House) ..	H. J. Busby, Esq.	SP(42)419399	392	26.7	26.86	195	124	
d	Grimsbury (Pumping Station) .. (+A)	Banbury Water Dept.	SP(42)459418	299	...	23.23	169	116	

DIVISION III—SOUTH MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
OXFORDSHIRE—(contd.)				ft.	in.	in.		
4.—THAMES. Thame & c. 210 sq. mi.								
D	Goring-on-Thames (Crossways)	.. G. C. Turner, Esq. ..	SU(41)599806	159	...	26.30	164	123
D	Henley-on-Thames (Greys Lane)	.. L. Weston, Esq. ..	SU(41)761824	123	26.1	27.45	168	130
D	Henley-on-Thames (Longlands)	.. J. E. Chalcraft, Esq. ..	SU(41)762827	150	...	26.43	172	122
D	Stoke Row (Vicarage) ..	.. Rev. C. Isherwood ..	SU(41)678840	576	...	30.12	164	139
D	Checkendon (Uxmores)	.. Major F. P. Landon ..		588	...	29.06	192	133
D	Ipsden (Hailey) ..	.. A. F. Williams, Esq. ..	SU(41)640858	350	27.0	23.72	159	124
D	Swyncombe House ..	.. C. W. Christie-Miller, Esq. ..	SU(41)689901	515	30.2	28.62	191	130
D	Swyncombe (Cookley House) ..	.. J. S. C. Bridge, Esq. ..	SU(41)699902	720	30.7	33.28	195	140
d	Ewelme (Quarry) ..	.. Agricultural Contractors, Ltd. ..	SU(41)645901	350	...	26.98	...	...
D	Benson Airfield ..	.. (+A) Meteorological Office ..	SU(41)631909	219	...	25.38	160	114
D	Watlington (Britwell Salome)	.. R. Roadnight, Esq. ..	SU(41)673935	400	...	28.26	167	129
D	Watlington (Cuxham) ..	.. Miss M. E. Edwards ..	SU(41)665952	200	...	28.21	174	132
d	Clifton Hampden (Manor House)	.. The Hon. Mrs. G. Gibbs ..	SU(41)549956	190	23.7	25.46	...	...
D	Watlington (Pyrton Manor) ..	.. Col. Ducat Hamersley ..	SU(41)685956	325	26.5	27.36	174	137
D	Wheatfield ..	.. Lt.-Col. A. V. Spencer, D.S.O. ..	SU(41)687996	260	25.6	25.35	156	126
d	Toot Baldon (Potlands) ..	.. H. J. Richens, Esq. ..	SP(42)564002	289	24.7	29.02	...	...
D	Thame (The Blue Man) ..	.. H. Badger, Esq. ..		200	...	25.43	174	128
NORTHAMPTONSHIRE. (Area, 1,003 sq. mi.)								
1.—SEVERN. Upper Avon. 60 sq. mi.								
D	Rugby (Braunston Rectory) ..	.. Rev. H. E. Ruddy ..		385	26.8	25.91	156	119
D	Naseby Reservoir ..	.. British Waterways ..		519	26.4	26.58	199	132
d	Naseby (Naseby Woolleys) ..	.. Col. R. L. Findley ..		520	...	25.97	...	...
2.—THAMES. Cherwell. 77 sq. mi.								
3.—OUSE. 148 sq. mi.								
D	Hazelborough Woods ..	.. Forestry Commission ..	SP(42)655425	441	...	30.77	152	135
D	Towcester (Bradden House) ..	.. J. C. Grant-Ives, Esq. ..	SP(42)648483	420	26.5	29.42	175	127
D	Towcester (Easton Neston) ..	.. The Rt. Hon. Lord Hesketh ..	SP(42)705496	325	26.6	27.32	162	128
4.—NENE. 622 sq. mi.								
D	Litchborough Rectory ..	.. Rev. Leathley* ..	SP(42)633542	485	...	27.21	148	127
D	Blisworth (Grand Union Canal)	.. British Waterways ..	SP(42)720550	296	...	26.06	174	121
d	Yardley Hastings (Forest Lodge)	.. Forestry Commission ..	SP(42)852572	370	24.9	(25.99)	...	...
d	Bugbrooke Mill ..	.. Messrs. A. R. Heygate & Sons* ..	SP(42)680588	228	...	22.43	...	...
D	Little Houghton (Bedford Road)	.. A. J. Old, Esq. ..	SP(42)812591	300	...	22.83	181	123
D	Northampton (Hardingstone Gen. Stn.)	.. Central Electricity Authority* ..	SP(42)762598	189	...	23.09	162	113
D	Northampton (St. Crispin Hospital) ..	.. Medical Superintendent ..	SP(42)715612	398	24.3	23.43	155	120
D	||Northampton (Stimpson Avenue)	.. Mid-Northants Water Board ..	SP(42)768614	329	...	24.00	181	118
D	Duston (Southfield Road) ..	.. W. P. Walker, Esq. ..	SP(42)718611	342	25.4	25.95	192	133
D	Wollaston (Pumping Station) ..	.. W. J. Anker, Esq., C.E. ..	SP(42)889641	140	...	23.70	168	119
d	Wollaston Hall ..	.. Messrs. Scott, Bader & Co., Ltd.* ..	SP(42)911631	276	...	22.39	...	...
	Althorp Park ..	.. G. W. Butterfield, Esq. ..	SP(42)682652	400	...	25.30	...	...
D	Sywell Reservoir ..	.. W. J. Anker, Esq., C.E. ..	SP(42)830653	271	...	24.51	173	124
D	Norton Junction ..	.. British Waterways ..	SP(42)602657	358	26.6	26.52	188	123
D	Rushden (Cemetery) ..	.. W. J. Anker, Esq., C.E. ..	SP(42)965664	260	...	23.72	170	109
D	Wellingborough (Nene Wharf)	.. Nene River Board ..	SP(42)899664	135	...	23.52	170	112
D	Wellingborough (Swanspool) ..	.. R. Kilby, Esq. ..	SP(42)894675	187	24.3	25.59	166	119
D	Wellingborough (Sewage Works)	.. R. Kilby, Esq. ..	SP(42)912673	139	...	24.85	170	122
D	WELLINGBOROUGH (Redwell Road)	.. L. G. Cottingham, Esq. ..	SP(42)885687	290	...	23.91	175	109
D	Wellingborough (Bushfield W.W.)	.. Mid-Northants Water Board ..	SP(42)876694	286	...	23.90	155	112

* Per Nene River Board.

|| Site unorthodox.

DIVISION III—SOUTH MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
NORTHAMPTONSHIRE—(contd.)				ft.	in.	in.		
4.—NENE—(contd.)								
d	Great Harrowden (The Hall) ..	.. W. Gordon Gilbey Esq.* ..	SP(42)882709	290	...	25.01	...	120
D	Hollowell .. ..	.. Mid-Northants Water Board	SP(42)687723	400	...	27.15	179	128
D	RAUNDS (Madison) .. ..	.. T. C. Smith, Esq.	SP(42)991721	193	...	24.64	175	111
d	Orlinsbury (Rectory Farm) ..	.. William Tomkins, Ltd. ..	SP(42)843715	388	...	24.50	...	126
D	Kettering (Sewage Works) ..	.. Borough Engineer	SP(42)895729	199	24.2	24.62	166	110
d	Lamport Hall .. ..	.. Sir Gyles Isham, Bart.* ..	SP(42)759746	480	...	26.14	...	107
D	KETTERING (Isham) .. ..	.. S. K. Harris, Esq.	SP(42)867783	200	...	25.35	179	110
D	Kettering W.W. (Cransley) ..	.. Mid-Northants Water Board	SP(42)833782	275	23.7	26.17	192	120
D	Kettering W.W. (Thorpe Malsor) ..	.. Mid-Northants Water Board	SP(42)829797	345	24.8	25.68	184	109
D	Kettering W.W. (Clover Hill) ..	.. Mid-Northants Water Board	SP(42)869799	344	24.2	23.72	187	112
d	Thrapston (Islip Furnaces) ..	(+A) Messrs. Stewarts & Lloyds*	SP(42)971783	150	...	23.45	...	...
D	Rothwell (Shotwell Mill Waterworks)	Mid-Northants Water Board	SP(42)816826	340	23.6	(25.66)	(184)	(117)
D	Desborough (U.D.C. Waterworks) ..	Mid-Northants Water Board	SP(42)798836	457	24.7	26.45	177	122
d	Oundle (Nene Wharf) .. ..	.. Nene River Board	TL(52)044888	65	...	23.04	...	...
D	Corby .. ..	.. Messrs. Stewarts & Lloyds*	SP(42)901885	319	...	24.59	159	114
D	Kings Cliff (Apethorpe) .. ..	.. J. W. Tomkins, Esq.* ..	TL(52)022961	127	23.6	22.86	180	119
d	Peterborough (Woodston) .. ..	.. British Sugar Corpn. Ltd. ..	TL(52)179975	37	22.3	23.34	...	...
D	Peterborough (Westbourne House) ..	.. E. H. Colman, Esq.	TL(52)190975	35	21.6	22.44	176	103
D	Peterborough (Sewage Pump. Stn.)(+A)	L. H. Robjohn, Esq., M.B.E.	TL(52)201984	9	...	21.84	165	101
d	Peterborough (Dogsthorpe) ..	.. Welland River Board ..	TF(53)204006	45	...	22.66	...	...
d	Wittering (Bone Mill) .. ..	.. E. Betts, Esq.	TF(53)041018	183	23.5	23.14	...	107
D	WITTERING Airfield .. ..	.. Meteorological Office ..	TF(53)048032	260	...	22.25	169	101
5.—WELLAND. 96 sq. mi.								
D	Market Deeping (Etton) .. ..	.. L. H. Robjohn, Esq., M.B.E.	TF(53)143048	36	...	23.18	175	111
HUNTINGDONSHIRE. (Area, 366 sq. mi.)								
1.—OUSE. 327 sq. mi.								
D	Great Gransden .. ..	.. Major E. W. R. Bolden ..	TL(52)267557	150	...	21.32	149	100
D	St. Neots (Kings Road) .. ..	.. W. P. Bond-Smith, Esq. ..	TL(52)189605	50	21.9	19.51	149	107
D	Hemingford Grey (Church Lane) ..	.. A. G. W. Briars, Esq. ..	TL(52)293708	25	...	23.34	170	122
D	St. Ives (Tenterleas) .. ..	.. Mr. H. E. Bell	TL(52)316714	25	22.6	21.82	157	107
D	WYTON Airfield	(+A) Meteorological Office ..	TL(52)284745	141	...	19.36	161	104
D	Abbot's Ripton Hall .. ..	.. L. F. Fillenham, Esq., C.E.	TL(52)241779	80	...	20.43	155	111
D	Conington Castle Gardens ..	.. L. F. Fillenham, Esq., C.E.	TL(52)181859	25	...	23.96	164	115
d	Huntingdon (Woodwalton Fen) ..	.. Nature Conservancy ..		5	...	21.28	...	...
D	Benwick (Four Hundred Farm) ..	.. L. F. Fillenham, Esq., C.E.	TL(52)324899	5	...	22.42	152	110
D	Whittlesea Mere .. ..	.. L. F. Fillenham, Esq., C.E.	TL(52)237904	10	21.4	20.57	148	102
2.—NENE. 39 sq. mi.								
BEDFORDSHIRE. (Area, 467 sq. mi.)								
1.—THAMES. Colne. 20 sq. mi.								
D	Studham Hall .. ..	.. A. S. Butler, Esq.	TL(52)012153	636	...	24.80	163	120
D	WHIPSNAD Park .. ..	.. Zoological Society	TL(52)004178	720	28.7	25.12	179	126
2.—THAMES. Lea. 32 sq. mi.								
D	Luton (Pumping Station) ..	.. Borough Engineer	TL(52)121180	330	25.8	20.71	147	107
D	Dunstable (Waterworks) ..	.. Eastern Gas Board	TL(52)022213	520	...	24.20	162	116
D	Dunstable (Cemetery) ..	.. Borough Engineer	TL(52)011215	515	...	24.19	167	122
D	Dunstable (Cement Works) ..	.. Works Manager	TL(52)015233	430	...	22.34	158	106

*Per Nene River Board.

DIVISION III—SOUTH MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
BEDFORDSHIRE—(contd.)				ft.	in.	in.		
2.—THAMES. Lea.—(contd.)								
D	LUTON (Wardown Park)	.. .. Borough Engineer	TL(52)089231	381	25.2	22.28	145	105
D	DUNSTABLE	.. .. (+ A) Meteorological Office ..	TL(52)006218	516	...	21.19	160	109
3.—OUSE. 408 sq. mi.								
D	Leighton Buzzard (Heath Road)	.. .. Great Ouse River Board ..	SP(42)924269	250	...	22.85	185	122
D	Battlesden (Pumping Station)	.. .. Bucks Water Board ..	SP(42)960281	358	...	23.49	156	115
D	Meppershall (High Street)	.. .. Mrs. F. Rainbow ..	TL(52)137362	250	22.9	21.70	148	108
D	WOBURN (Experimental Farm)	.. .. Lawes Agricultural Trust ..	SP(42)964358	291	23.9	24.14	170	112
D	Letchworth (New Sewage Works)(+ A)	.. .. Surveyor, U.D.C. ..	TL(52)208347	209	22.3	21.05	155	103
d	Stotfold (Three Counties Hospital)	.. .. Dr. McDiarmid ..	TL(52)203350	200	22.6	19.77	...	...
D	SILSOE (Wrest Park)	.. .. (+A) Nat. Inst. of Agric. Eng. ..	TL(52)091358	195	22.0	20.06	154	102
D	Arlesey (Sewage Works)	.. .. H. W. Pridmore, Esq. ..	TL(52)190363	141	22.5	18.78	147	99
D	Stotfold (Sewage Works)	.. .. H. W. Pridmore, Esq. ..	TL(52)209384	130	22.3	20.21	145	106
D	Amphill (Lyme Road)	.. .. J. K. Horne, Esq. ..	TL(52)031378	300	...	21.72	166	114
	Shefford (Clifton Close)	.. .. C. H. Inskip, Esq. ..	TL(52)163392	90	22.2	21.09	...	...
D	Bedford (Stewartby School)	.. .. Headmaster ..	TL(52)021421	125	...	21.51	145	98
D	Biggleswade (New Spring Pumping Stn.)	.. .. T. A. Staniforth, Esq. ..	TL(52)210416	175	21.6	20.15	156	106
D	CARDINGTON	.. .. (+A) Meteorological Office ..	TL(52)083464	75	...	21.57	164	103
	Kempston	.. .. Mr. C. S. Payne ..	TL(52)033477	125	...	21.51	148	96
d	Potton (Sewage Works)	.. .. H. W. Pridmore, Esq. ..	TL(52)221485	111	22.2	22.25	...	119
D	Sandy (Moggerhanger Park)	.. .. W. R. Pettifer, Esq. ..	TL(52)134486	152	23.1	22.13	144	110
d	Sandy (Sewage Works)	.. .. Reg. W. Settle, Esq. ..	TL(52)164502	72	...	19.32	...	...
	Tempsford	.. .. Great Ouse River Board ..	TL(52)161535	57	...	18.15	...	...
D	|| Bedford (Castle Road)	.. .. Miss M. E. Newbery ..	TL(52)057498	100	22.3	21.22	169	111
d	Bromham (The Old Smithy)	.. .. J. B. G. Savory, Esq. ..	TL(52)010506	110	...	22.17	152	117
D	Bedford (Bedford Park)	.. .. (+A) Borough Engineer ..	TL(52)051510	117	...	19.23	151	97
D	Bedford (Reservoir)	.. .. n.g. .. Borough Water Engineer ..	TL(52)043513	235	...	21.32	158	106
D	Goldington (Castle Mill House)	.. .. G. A. Rogers, Esq. ..	TL(52)091509	79	21.9	22.94	166	129
D	GOLDINGTON (The Risings)	.. .. J. K. Rothwell, Esq. ..	TL(52)074511	107	...	20.52	170	101
D	Bedford (Renhold)	.. .. C. G. Barber, Esq., C.I.E. ..	TL(52)087529	168	...	20.26	162	98
d	Carlton (Stayesmore Manor)	.. .. Col. G. A. Battcock ..	SP(42)958551	168	...	23.55	...	...
D	HARROLD	.. .. H. F. Dodd, Esq. ..	SP(42)952569	150	...	22.77	165	118
d	R.A.E. Bedford	.. .. Meteorological Office ..	TL(52)049597	279	...	21.25	...	...
D	Souldrop	.. .. C. Gulliver, Esq. ..	SP(42)984615	300	...	25.00	170	122
4.—NENE. 7 sq. mi.								
CAMBRIDGESHIRE. (Area, 863 sq. mi.)								
1.—STOUR. 17 sq. mi.								
2.—OUSE. 741 sq. mi.								
D	Ashwell (Odsey)	.. .. W. Herbert Fordham, Esq. ..	TL(52)293383	256	23.0	22.69	165	111
d	Abington Pigotts Hall	.. .. M. G. de Courcy-Ireland, Esq. ..	TL(52)304446	98	21.8	19.05	...	...
D	Melbourn (County School)	.. .. W. Ogden, Esq. ..	TL(52)381447	85	22.2	18.75	165	105
D	Great Shelford Vicarage	.. .. Rev. R. Gardner ..	TL(52)459519	50	...	20.65	146	102
D	Fulbourn (Fleam Dyke)	.. .. Cambridge W.W. Co. ..	TL(52)540549	99	23.0	19.14	163	104
	Fulbourn (Hospital)	.. .. Head Gardener ..	TL(52)499563	72	22.7	19.08	...	...
D	Cambridge (Grantchester Meadows)	.. .. J. M. Wheeler, Esq. ..	TL(52)443571	35	...	19.84	170	108
d	Cambridge (Corporation Store Yard)	.. .. Borough Engineer ..	TL(52)464579	52	21.2	19.17	...	...
D	CAMBRIDGE (BOTANIC GARDENS)	.. .. Director ..	TL(52)453572	41	21.8	19.67	149	100
D	Cambridge (Corporation Pumping Stn.)	.. .. Borough Engineer ..	TL(52)466593	42	22.1	19.08	145	100
D	Cambridge (Woodlark Road)	.. .. J. Doggett, Esq. ..	TL(52)436602	62	...	21.36	159	104
D	CAMBRIDGE (N.I.A.B.)	.. .. Director ..	TL(52)434604	85	22.0	20.87	149	99
d	Dullingham (Stetchworth Park)	.. .. Mr. H. Fern ..	TL(52)643591	270	23.2	21.55	...	...

|| Site unorthodox.

DIVISION III—SOUTH MIDLAND COUNTIES—(contd.)

STATIONS	AUTHORITIES	Rain-gauge site		Average Rain-fall	1957			
		National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more	
CAMBRIDGESHIRE—(contd.)			ft.	in.	in.			
2.—OUSE—(contd.)								
D	Boxworth .. ..	.. Farm Director	TL(52)347639	157	21·3	21·12	165	102
d	Boxworth (Manor House) ..	.. Lt.-Col. E. B. Thornhill, M.C.	TL(52)352645	76	23·4	23·97	...	...
D	Waterbeach (Bottisham Lock)	.. Great Ouse River Board ..	TL(52)509657	10	20·5	18·07	116	94
D	Cottenham (Bernard House) ..	.. Miss K. Bull	TL(52)452678	30	22·1	19·67	178	106
d	Fordham (Carter Street) ..	.. Miss F. M. Bloom	TL(52)623711	30	21·4	19·98	...	106
D	Bluntisham (Brownhill Staunch)	.. Great Ouse River Board ..	TL(52)370728	10	...	21·84	172	104
d	Stretham (Engine House) ..	.. C. O. Clarke, Esq.	TL(52)516729	13	21·2	18·54	...	...
D	Ely (Roswell Pits) .. ..	.. Great Ouse River Board ..	TL(52)560805	114	...	21·49	174	108
D	Ely (Prickwillow) .. ..	.. Supt. Middle Fen Com'rs...	TL(52)597825	10	...	23·03	149	110
D	Littleport (Highfield House) ..	.. Miss S. M. Martin	TL(52)564864	67	21·3	20·06	156	109
d	Chatteris (The Vicarage) ..	.. Rev. J. C. Hawthorn	TL(52)395858	30	...	21·73	...	111
d	Chatteris (Cemetery) .. ..	.. L. F. Fillenham, Esq., C.E.	TL(52)396864	25	...	21·74	...	112
D	Chatteris (Puddock Bridge) ..	.. L. F. Fillenham, Esq., C.E.	TL(52)351880	5	...	21·45	158	112
d	Ransomoor (Pumping Station)	.. T. B. M. Coy., Esq.	TL(52)358922	0	...	20·63	...	108
D	Whittlesey (Ashline Sluice) ..	.. L. F. Fillenham, Esq., C.E.	TL(52)272962	15	...	20·53	169	101
D	March .. ..	.. L. F. Fillenham, Esq., C.E.	TL(52)420967	8	22·8	21·54	139	114
D	Upwell (Marmont Priory Lock)	.. L. F. Fillenham, Esq., C.E.	TF(53)489012	10	20·6	18·86	176	112
3.—NENE. 105 sq. mi.								
D	Stanground Sluice .. ..	.. L. F. Fillenham, Esq., C.E.	TL(52)209973	15	21·7	22·32	172	106
D	Thorney Toll (Elm Tree Farm)	.. Mrs. Snushall	TF(53)353026	6	...	19·65	137	91
D	Thorney (North House) ..	.. H. W. Burton, Esq.	TF(53)307034	4	...	20·47	173	103
d	Thorney (Nuts Grove Farm) ..	.. T. R. Pick, Ltd.	TF(53)328058	12	...	22·17	...	117
D	Parson Drove (Clough's Cross)	.. J. C. Purser, Esq.	TF(53)369094	6	22·1	21·34	173	116
D	Wisbech (Tydd Manor) ..	.. Messrs. A. H. Carter & Sons	TF(53)431166	9	...	21·94	154	101

DIVISION IV—EASTERN COUNTIES

ESSEX. (Area, 1,532 sq. mi.)

1.—THAMES. Lea. 132 sq. mi.

D West Ham (Abbey Mills) ..	.. London County Council ..	TQ(51)387832	15	22·3	20·08	135	102
D Leyton (Sewage Works) ..	(+A) Borough Engineer	TQ(51)365866	22	23·0	22·29	156	118
D Lea Bridge (Waterworks) ..	.. Metropolitan Water Board	TQ(51)359867	23	...	20·81	148	108
D Walthamstow (Ferry Lane) ..	.. Metropolitan Water Board	TQ(51)351893	30	22·6	19·21	138	106
D Woodford (Haggard Lane) ..	.. Metropolitan Water Board	TQ(51)392901	176	23·0	21·94	139	109
D §Buckhurst Hill Reservoir ..	.. Metropolitan Water Board	TQ(51)407939	275	23·9	21·88	152	113
D Chingford (Crescent Road) ..	.. Miss M. L. Mathieson ..	TQ(51)397946	200	23·3	21·37	152	111
D Chingford Mill .. ..	.. Metropolitan Water Board	TQ(51)363925	40	23·0	19·93	133	102
D Loughton (High Beech Reservoir)	.. Metropolitan Water Board	TQ(51)410980	376	25·1	21·63	146	112
D Waltham Abbey (Pumping Station)	.. Metropolitan Water Board	TL(52)375005	62	23·3	20·48	141	103
D Waltham Abbey (Gunpowder Factory)	Superintendent	TQ(51)375013	64	...	21·43	153	104
D Roydon Pumping Station ..	.. Herts & Essex Water Co. ..	TL(52)412102	120	...	20·26	153	105
D Spellbrook Lock .. ..	.. Lee Conservancy Catchm. Bd.	TL(52)490176	172	...	21·14	153	103
D White Roding (Colville Hall) ..	.. Major G. B. Hoare	TL(52)554135	260	...	22·04	165	116
D Hatfield Broad Oak (Barrington)	.. A. H. Gosling, Esq.	TL(52)553177	300	24·3	22·26	160	111
D ||STANSTED Airport	(+A) Meteorological Office ..	TL(52)531226	330	...	21·77	164	107
D Stansted Nurseries .. ..	.. C. G. Hill-Smith, Esq. ..	TL(52)509242	275	...	22·47	168	108
D Stansted (Burton Bower) ..	.. Major E. Cawkell	TL(52)526241	335	...	21·38	169	108
D Clavering (Clavering Hall) ..	.. Messrs. Tinney & Hitchcock	TL(52)477307	300	...	20·66	161	111

|| Gauge over-exposed.

§ Turf wall round gauge.

DIVISION IV—EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
ESSEX—(contd.)				ft.	in.	in.		
2.—THAMES. Roding & c. 316 sq. mi.								
D	Tilbury (Grays Sewage Works)	C. S. H. Hawkes, Esq., C.E.	TQ(51)654758	9	...	19.21	131	94
d	Tilbury (Beaconsfield Road)	C. S. H. Hawkes, Esq., C.E.	TQ(51)640765	6	20.2	20.11	...	...
d	Grays (Connaught Avenue Depot)	C. S. H. Hawkes, Esq., C.E.	TQ(51)620796	80	...	19.55	...	...
D	Rainham (Riverside Sewage Works)	Dagenham U.D.C.	TQ(51)516823	5	19.3	18.49	165	105
d	Rainham (Spring Farm Rec. Ground)	Hornchurch U.D.C.	TQ(51)540824	24	...	19.35	...	109
D	Dagenham (Marley School)	Science Master	TQ(51)496839	10	...	20.72	147	102
D	Barking	Engineer and Surveyor	TQ(51)446830	5	...	18.80	134	97
D	EAST HAM (Sewage Works)	Corporation	TQ(51)425831	11	22.3	20.07	139	108
D	East Ham Well	Metropolitan Water Board	TQ(51)437842	17	21.6	19.24	139	102
D	CORYTON	Superintendent	TQ(51)746823	9	...	19.02	153	99
D	Canvey Island	Engineer & Surveyor	TQ(51)786832	9	...	16.54	140	92
D	Upminster (Little Gaynes Gardens)	A. D. May, Esq.	TQ(51)553855	70	...	19.77	154	104
d	Ilford (Loxford Park)	Engineer & Surveyor	TQ(51)443852	30	...	21.49	...	...
d	Ilford (Goodmayes Park)	Engineer & Surveyor	TQ(51)468868	38	...	20.13	...	...
d	Ilford (Valentines Park)	(+A) Engineer & Surveyor	TQ(51)435872	43	...	20.06	...	...
d	Ilford (Clayhall Park)	Engineer & Surveyor	TQ(51)427893	109	...	22.00	...	...
D	Ilford (Hainault)	N. Twydel, Esq.	TQ(51)449917	121	...	20.26	175	108
D	SOUTHEND (The Cliffs)	Pier Master	TQ(51)878858	90	20.8	18.04	148	98
d	Southend (Waterworks)	Southend Waterworks Co.	TQ(51)874853	123	21.1	18.57	...	...
D	Vange (Pumping Station)	Southend Waterworks Co.	TQ(51)709860	43	...	20.60	168	110
d	Manor Park (City of London Cem.)	Superintendent	TQ(51)418864	50	22.4	20.80	...	...
d	Hornndon (Eastern Sewage Works)	Hornchurch U.D.C.	TQ(51)606867	23	20.5	20.40	...	108
D	Hornchurch	Hornchurch U.D.C.	TQ(51)537875	44	21.0	19.45	156	105
D	Wanstead (Red Bridge)	Metropolitan Water Board	TQ(51)414882	25	22.8	20.83	145	107
d	Romford (Danes Road)	Essex River Board	TQ(51)502879	55	...	19.77	...	...
D	Romford (Raphael Park)	Engineer & Surveyor	TQ(51)518901	109	22.4	18.76	139	103
D	Harold Wood (Recreation Ground)	Hornchurch U.D.C.	TQ(51)549901	93	...	19.55	137	99
D	Havering-atte-Bower (Fernside)	E. W. Smith, Esq.	TQ(51)519931	360	25.8	23.03	161	113
D	Loughton (The Summit)	Mrs. Stoker	TQ(51)429977	314	24.3	23.56	148	122
D	Theydon Bois (Thriffs Hill)	I. Lloyd-Jones, Esq.	TQ(51)457987	245	23.6	22.06	149	104
D	Theydon Bois (Birch Hall)	Mrs. Daphne Buxton	TQ(51)439993	300	...	23.17	134	115
D	North Weald (Canes)	Mrs. Hart	TL(52)484063	250	24.2	21.35	153	113
D	Great Canfield	G. Eland, Esq.	TL(52)582185	270	...	21.27	128	102
3.—CROUCH. 186 sq. mi.								
D	SHOEBOURNESS	(+A) Meteorological Office	TQ(51)948857	11	...	21.37	143	100
d	Leigh (Brick House)	Late Miss I. Bentall	TQ(51)849875	136	...	18.36	...	100
D	Oakwood Reservoir	Southend Waterworks Co.	TQ(51)823882	222	...	21.72	150	104
D	Basildon New Town	(+A) Basildon Development Corp'n.	TQ(51)705888	95	...	20.70	159	105
d	Rayleigh (Allanbank)	Miss E. I. Chant	TQ(51)800902	262	...	21.70	153	96
D	Wickford (Dollymans Farm)	A. H. Philpot & Sons, Ltd.	TQ(51)772922	45	...	20.95	124	99
D	Potton Island	A. H. Philpot & Sons, Ltd.	TQ(51)952904	4	...	21.89	151	111
d	Burnham (Fisheries Laboratory)	Min. of Agric. & Fisheries	TQ(51)947957	0	...	20.49	134	103
D	Burnham (Wycke Farm)	J. W. Cottis, Esq.	TQ(51)963958	0	...	20.15	146	104
d	Battlesbridge	Essex River Board	TQ(51)777956	75	...	20.39	...	...
4.—BLACKWATER. 425 sq. mi.								
d	Hanningfield Reservoir	W. C. Young, Esq., C.E.	TQ(51)744991	160	...	19.44	134	96
D	Margaretting (Writtle Park)	A. H. Philpot & Sons, Ltd.	TL(52)649036	308	23.8	21.81	141	118
D	Chelmsford (Galleywood)	W. Lawrence Taylor, Esq.	TL(52)712042	200	...	22.08	175	116
D	Chelmsford (Longstomps Reservoir)	Water Engineer	TL(52)703046	230	...	21.71	170	117
D	Bradwell-on-Sea (Bellropes)	H. D. Chillingworth, Esq.	TL(52)979054	75	20.5	21.23	135	95
D	WRITTE	Essex Inst. of Agriculture	TL(52)677069	105	...	20.25	159	105
D	§Maldon	Town Clerk	TL(52)863065	14	20.0	19.32	157	97
D	Chelmsford (Sandford Mill W.W.) (+A)	Essex River Board	TL(52)738060	68	...	20.16	148	99

§ Turf wall round gauge.

DIVISION IV—EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain- fall	1957		
			National grid reference	Altitude		Rain- fall	Days with ·01 in. or more	Days with ·04 in. or more
ESSEX—(contd.)				ft.	in.	in.		
4.—BLACKWATER—(contd.)								
D	Hatfield Peverel (Rushes Lock)	.. Southend Waterworks Co.	TL(52)795090	40	...	21·61	175	112
D	Langford (Treatment Plant)	.. Southend Waterworks Co.	TL(52)826095	40	21·8	20·97	144	107
D	Hatfield Peverel (Butlers)	.. Mrs. J. Shaw	TL(52)798110	120	...	19·39	139	97
D	Witham (Wickham Hall)	.. Bevington Smith, Esq., C.B.E.	TL(52)831106	60	20·8	21·73	138	110
D	Hatfield Peverel (Lower Farm)	.. H. J. Russel, Esq.	TL(52)808109	101	...	19·38	140	95
D	Hatfield Peverel (Whitelands)	.. W. D. Goldsmith, Esq.	TL(52)783135	130	...	20·88	155	103
D	Great Totham	.. C. Weston Eve, Esq.	TL(52)853121	190	...	20·45	148	103
d	Little Waltham (Merefields)	.. J. H. Rosling, Esq.		140	...	20·79	...	113
D	Witham (Faulkbourne Hall)	.. C. W. O. Parker, Esq.	TL(52)803163	100	21·9	21·58	158	109
D	Little Leighs (Kelle)	.. W. C. Neild, Esq.	TL(52)720183	192	22·3	20·20	156	103
d	Kelvedon (Harboro Hall)	.. A. Bevington Smith, Esq.	TL(52)901186	175	...	22·07	...	...
	Rivenhall (Park Gate Farm)	.. Joseph Smith (Farms) Ltd.	TL(52)824192	149	...	19·73	...	...
D	Felsted School	.. F. M. Lee, Esq.	TL(52)680207	248	22·9	22·30	141	101
D	Felsted (Sugar Factory)	.. British Sugar Corp. Ltd.	TL(52)666210	225	...	21·79	116	94
d	Little Dunmow (Throws)	.. Hasler & Co. Ltd.	TL(52)685224	250	...	19·43	...	...
D	Rayne (Staneway)	.. Mrs. Burt	TL(52)728227	247	23·0	23·15	150	124
D	Braintree (Coggeshall Road)	.. A. F. Gunn, Esq.	TL(52)782236	222	...	23·29	148	102
D	Bocking Church Street	.. W. Andrews, Esq.	TL(52)760260	207	...	21·83	161	116
D	Shalford (Littles)	.. W. B. Hart, Esq.	TL(52)710274	262	22·8	21·73	161	110
d	Great Bardfield (Great Lodge)	.. Joseph Smith (Farms) Ltd.	TL(52)695291	250	...	19·42	141	101
D	Great Bardfield (South Lodge)	.. G. H. Brunwin, Esq.	TL(52)674304	250	23·2	21·38	156	114
D	SAFFRON WALDEN (Friend's School)	.. Headmaster	TL(52)542375	298	...	19·41	152	114
d	Saffron Walden (Sewards End)	.. J. S. D. Coleridge, Esq.	TL(52)571383	395	...	21·30	...	...
5.—COLNE & C. 283 sq. mi.								
D	§CLACTON-on-Sea (Hospital Site)	.. Town Clerk	TM(62)172143	53	20·5	18·11	140	94
D	Clacton-on-Sea (King's Road)	.. W. Tomlin, Esq.	TM(62)165142	45	...	17·59	132	91
D	Great Clacton (Clay Hall)	.. Miss E. A. Smith	TM(62)182161	45	20·4	19·06	144	99
D	Tiptree (Waterworks)	.. S. Essex Waterworks Co.	TL(52)884168	239	...	21·67	152	108
D	Little Holland (The Sluice House)	.. Essex River Board	TM(62)216172	14	...	19·27	153	104
D	Colchester (Laver de la Haye)	.. S. Essex Waterworks Co.	TL(52)964196	145	...	22·09	147	107
D	§WALTON-ON-NAZE	.. Engineer & Surveyor	TM(62)250220	35	...	18·24	141	92
d	Colchester (Stanway)	.. Essex River Board	TL(52)961238	120	...	23·56	...	...
D	Colchester (Hythe Gasworks)	.. Eastern Gas Board	TM(62)014244	6	22·0	22·23	148	101
D	Colchester (Castle Park)	.. J. S. Orchard, Esq., C.E.	TL(52)999255	87	...	23·15	147	105
D	Colchester (Waterworks)	(+A) J. S. Orchard, Esq., C.E.	TL(52)991254	38	...	21·78	144	104
	Earls Colne (Coggeshall Road)	.. C. T. Richardson, Esq.	TL(52)862278	220	...	23·25	...	...
D	EARLS COLNE (Grammar School)	.. Headmaster	TL(52)858288	160	23·5	21·80	147	109
D	Ardleigh (Hull Farm)	.. John Fryer, Esq.	TM(62)043276	120	...	22·07	144	95
d	Ardleigh (Chancery Farm)	.. Mrs. Lloyd	TM(62)061281	120	...	22·22	...	...
D	Halstead (Attwoods)	.. Miss A. E. Vaizey	TL(52)801299	200	23·6	22·37	151	106
D	Halstead (Fenn Road)	.. Essex River Board	TL(52)823304	168	...	20·05	142	108
D	Great Yeldham Hall	.. Late G. A. Goodchild, Esq.	TL(52)757386	165	23·1	20·72	161	118
6.—STOUR. 110 sq. mi.								
D	DOVERCOURT	.. Boro' Surveyor, Harwich	TM(62)242301	11	...	19·98	146	100
d	Mistley (The Maltings)	.. Brooks (Mistley), Ltd.	TM(62)108318	30	22·2	21·79	...	92
D	Dedham	.. Essex River Board	TM(62)071316	115	...	23·13	151	103
D	Nayland (Boxted Lodge)	.. Essex River Board	TL(52)999321	160	...	23·90	136	103
d	Nayland (Boxted)	.. Carter & Blewitt, Ltd.	TM(62)006328	154	...	23·28	...	97
d	Nayland (Horkesley Park)	.. The Warden	TL(52)978333	105	...	23·03	...	103
D	Manningtree (Lawford Place)	.. B. X. Plastics, Ltd.	TM(62)095310	113	...	22·13	140	100
D	Bures (Colchester Road)	.. S.C.M. Malenoir-Vickers, Esq.	TL(52)905337	80	...	24·23	172	111
D	Langham (Waterworks)	.. S. Essex Waterworks Co.	TM(62)017342	44	...	22·49	145	96

§ Turf wall round gauge.

DIVISION IV—EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957				
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more		
ESSEX—(contd.)					ft.	in.	in.				
6.—STOUR—(contd.)											
D	Sudbury (Belchamp Hall)	..	..	Essex River Board	..	TL(52)826407	160	...	20.60	140	105
D	Foxearth	..	..	A. V. Geater, Esq.	..	TL(52)836446	158	...	24.28	158	119
7.—OUSE. 80 sq. mi.											
D	Quendon (Rickling)	..	..	Messrs. Tinney & Hitchcock	..	TL(52)498314	325	24.1	20.16	152	113
D	Saffron Walden (Technical School)	..	..	W. Heyes, Esq., B.Sc.	..	TL(52)532378	235	23.2	18.15	142	106
SUFFOLK. (Area, 1,489 sq mi.)											
1.—STOUR. 271 sq. mi.											
D	EAST BERGHOLT (Flatford Mill)	..	..	Field Centre Warden	..	TM(62)077333	14	...	22.87	142	95
D	East Bergholt (Ackworth House)	..	..	Capt. C. J. Church	..	TM(62)065350	145	...	22.99	130	99
D	Little Cornard (Moss Cottage)	..	..	Essex River Board	..	TL(52)899365	145	...	20.39	138	108
D	Sudbury (Edwardstone)	..	..	Essex River Board	..	TL(52)943422	185	...	22.50	154	112
D	Sudbury (Waterworks)	..	..	Engineer & Surveyor	..	TL(52)869423	130	...	21.08	177	114
D	Layham (Holbecks)	..	..	Essex River Board	..	TM(62)019417	170	...	23.68	155	113
D	Hadleigh (Linden Lea)	..	..	E. A. Lee, Esq.	..	TM(62)035423	185	24.4	23.66	162	101
d	Haverhill (Waterworks)	..	..	Surveyor, Haverhill, U.D.C.	..	TL(52)660452	280	24.1	(22.57)	...	...
D	Long Melford (Westgate House)	..	..	K. F. Colville, Esq.	..	TL(52)862466	141	23.5	22.24	155	109
D	Long Melford (Stafford Works)	..	..	Essex River Board	..	TL(52)847456	113	...	20.10	145	107
D	Clare (Little Wratting)	..	..	Essex River Board	..	TL(52)700475	296	23.1	19.85	150	106
D	Boxted Hall	..	..	Essex River Board	..	TL(52)827506	160	23.9	22.29	156	125
2.—ORWELL. 166 sq. mi.											
D	Cockfield	..	..	Essex River Board	..	TL(52)899557	270	...	23.21	152	124
D	IPSWICH (BELSTEAD Hall)	..	(+A)	Richard Wilson, Esq.	..	TM(62)127413	123	...	23.71	176	113
d	Ipswich (Upton Lodge)	..	..	E.S'folk and N'folk R. Bd.	..	TM(62)173447	70	...	23.77	...	...
D	Elmsett (Laurel Cottage)	..	..	Miss C. E. Ladbrook	..	TM(62)060465	230	...	24.08	141	96
D	Coddenham (Cousins Hill)	..	..	Miss Tidswell	..	TM(62)115553	160	23.9	25.92	157	120
D	Old Newton	..	..	A. E. Stearn, Esq.	..	TM(62)051630	206	...	24.98	151	122
3.—DEBEN & C. 466 sq. mi.											
D	FELIXSTOWE	..	(+A)	Meteorological Office	..	TM(62)286328	10	20.3	20.08	147	91
D	Hollesley	..	..	E. S'folk and N'folk R. Bd.	..	TM(62)368439	11	...	21.54	151	112
D	Ipswich (Daleacre)	..	..	C. Harrison-Jones, Esq.	..	TM(62)194456	140	...	22.83	181	112
D	Martlesham (Beacon Hill)	..	..	The Earl of Albemarle	..	TM(62)245472	100	...	24.75	160	115
D	Woodbridge (Warren Hill Road)	..	..	Mrs. J. B. Martin	..	TM(62)264487	100	...	24.73	161	114
D	Orford (Butley Abbey Farm)	..	..	Sir Peter Greenwell, Bart.	..	TM(62)375491	27	...	21.66	155	108
D	Melton (Greylands)	..	..	A. H. P. Hope, Esq.	..	TM(62)285507	40	...	23.40	162	95
d	Melton (St. Audry's Hospital)	..	..	Secretary	..	TM(62)286517	90	...	22.23	...	...
D	Grundisburgh (Bridge House)	..	..	Miss L. Cook	..	TM(62)230502	50	...	25.31	162	119
D	Orford (Sudbourne Park)	..	..	Sir Peter Greenwell, Bart.	..	TM(62)407511	27	...	23.58	169	119
D	Aldeburgh (Haven Sluice)	..	..	E. S'folk and N'folk R. Bd.	..	TM(62)468583	5	...	23.87	155	108
	Charsfield (Red House)	..	..	Hugh P. Youngman, Esq.	..	TM(62)243567	150	...	23.62	...	...
D	Campsea Ashe	..	..	Major R. S. Schreiber	..	TM(62)339554	50	...	21.74	153	114
d	Kettleburgh (Home Farm)	..	..	Norman Pulham, Esq.	..	TM(62)258602	110	...	24.56	...	...
D	Blaxhall	..	..	R. H. Sherwood, Esq.	..	TM(62)366565	50	...	23.06	155	116
D	Aldeburgh (Iken Way)	..	..	G.E.Sunderland-Taylor, Esq.	..	TM(62)444573	10	...	22.55	163	110
d	Framlingham (Sewage Works)	..	..	P. W. Cook, Esq.	..	TM(62)284624	90	...	22.46	...	...
D	Leiston (Upper Abbey)	..	..	Miss M. K. Rope	..	TM(62)453645	30	...	23.68	171	114
D	Wrentham (Covehithe)	..	..	D. Connell, Esq.	..	TM(62)524818	25	...	20.73	147	105
d	Benacre (Pumping Station)	..	..	E. S'folk and N'folk R. Bd.	..	TM(62)536845	10	...	22.46	...	...
D	Sotterley Hall	..	..	C. Briscoe, Esq.	..	TM(62)461852	50	...	25.30	175	118

|| Gauge over-sheltered.

§ Turf wall round gauge.

DIVISION IV—EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
SUFFOLK—(contd.)				ft.	in.	in.		
4.—YARE & C. 208 sq. mi.								
D	Homersfield .. .. .	.. A. E. Kennard, Esq. ..	TM(62)285855	50	...	26.43	176	117
D	LOWESTOFT (Secondary School)	.. Borough Treasurer ..	TM(62)543947	82	23.5	20.87	164	111
d	Lowestoft (St. Margaret's Road)	.. Lowestoft Water Co. ..	TM(62)548942	80	...	20.68	...	...
D	Corton Vicarage .. .. .	.. Rev. C. A. B. Allen ..	TM(62)542975	51	...	23.14	169	121
D	Herringfleet House .. .. .	.. G. H. Wyllys, Esq. ..	TM(62)463986	55	...	25.76	187	129
D	Lound (Pumping Station) ..	.. Lowestoft Water Co. ...	TG(63)501008	33	...	23.36	167	120
d	Hopton (Hopton House) ..	.. Col. F. E. Walter, D.S.O. ..	TM(62)521998	100	...	23.10	...	119
D	Fritton Warren .. .. .	.. P. T. Wiltshire, Esq. ..	TM(62)463998	42	...	24.19	173	121
d	Fritton Hall .. .. .	.. Mr. F. Read.		30	...	26.57	...	...
5.—OUSE. 378 sq. mi.								
D	Bury St. Edmunds (Turret Close)	.. Rev. P. R. Frost	TL(52)853641	130	...	24.26	149	118
D	Bury St. Edmunds (Corp. Depot)(+A)	.. Borough Engineer	TL(52)850643	181	...	25.15	158	119
D	Newmarket (Sewage Outfall) ..	.. F. B. Waterfall, Esq. ..	TL(52)635648	81	...	21.39	144	110
d	Moulton (Pumping Station) ..	.. Mildenhall R.D.C.	TL(52)698645	135	...	22.20	...	...
d	Bury St. Edmunds (Westley Hall)	.. Head Gardener	TL(52)825647	226	25.1	25.19	...	110
D	Bury St. Edmunds (Beet Sugar Factory)	.. British Sugar Corp'n. Ltd. ..	TL(52)862664	160	...	23.54	...	...
D	Pakenham (Church Hill) .. ..	.. E. Bryant, Esq.	TL(52)928670	155	...	20.97	159	104
d	Bury St. Edmunds (Barton Lodge)	.. Mrs. S. Cox	TL(52)884664	200	23.2	24.13	139	118
d	Bury St. Edmunds (Troston Hall)	.. Major F. S. Beauford ..	TL(52)899717	133	...	24.04	...	...
D	Mildenhall (Worlington) .. ..	.. Lord Sandhurst	TL(52)684729	30	...	21.25	167	112
d	Mildenhall (Eriswell Pumping Stn.)	.. Mildenhall R.D.C.	TL(52)729761	30	...	25.23	...	...
D	MILDENHALL Airfield (+A)	.. Meteorological Office ..	TL(52)683778	15	21.4	22.07	145	102
D	Isleham Lock .. .. .	.. Great Ouse Catchment Bd. ..	TL(52)649761	10	...	22.39	161	113
D	Elveden Hall .. .. .	.. The Earl of Iveagh, C.B. ..	TL(52)822800	130	...	25.45	157	121
D	Brandon (Waterworks) .. ..	.. Mildenhall R.D.C.	TL(52)793862	82	...	26.60	181	126
NORFOLK. (Area, 2,041 sq. mi.)								
1.—YARE. 658 sq. mi.								
D	Diss (Roydon Hall) .. .. .	.. R. S. Copeman, Esq. ..	TM(62)094807	140	...	26.16	168	134
D	Diss (Bressingham Hall) .. ..	.. A. H. V. Bloom, Esq. ..	TM(62)079805	100	...	26.07	185	136
	Harleston (Starston) .. .. .	.. A. L. Taylor, Esq.	TM(62)241844	120	...	26.18	180	124
d	Ditchingham .. .. .	.. I. G. Rutter, Esq.	TM(62)341906	25	23.9	23.85	...	109
d	Beccles (Raveningham Hall) ..	.. Lt.-Col. Sir Edmund Bacon Bt. ..	TM(62)399966	60	24.6	22.88	...	106
D	Wymondham (Browick Hall) ..	.. P. W. J. Fryer, Esq. ..	TG(63)130015	140	...	24.07	179	129
	Hardingham Hall .. .. .	.. Col. B. M. Edwards	TG(63)047037	100	...	27.13	...	...
D	GORLESTON (Coastguard Station)	.. Station Officer, for M.O. ..	TG(63)534037	5	24.5	23.24	168	114
D	|| Norwich (Cringleford) .. ..	.. Miss E. J. Edmondson ..	TM(62)192066	75	...	24.69	172	133
D	|| Norwich (City Cemetery) ..	.. L. Alan Jewell, Esq. ..	TG(63)212086	93	25.5	24.37	172	123
d	|| Norwich (Marlingford Hall) ..	.. Vice Admiral Sir Edward Evans-Lombe	TG(63)127081	83	26.9	25.31	...	131
	Great Fransham .. .. .	.. Sir Stephen Renshaw, Bart. ..	TF(53)897133	230	28.2	28.85	...	128
D	East Dereham (The Laboratory)	.. Leonard A. Pett, Esq. ..	TF(53)994132	200	25.7	29.46	164	139
D	Taverham (Deighton Hills) ..	.. T. B. Norgate, Esq. ..	TG(63)162143	100	...	24.16	170	115
D	Sparham Hall .. .. .	.. Major D. J. W. Sayer ..	TG(63)072187	100	...	24.27	170	126
D	Great Massingham .. .. .	.. A. E. Jones, Esq.	TF(53)797234	250	...	27.01	196	132
D	WEST RAYNHAM Airfield (+A)	.. Meteorological Office ..	TF(53)847245	250	...	26.85	175	131
D	Cawston (Rectory) .. .. .	.. Rev. E. F. W. Ames ..	TG(63)134238	152	26.6	24.97	190	132
D	Colkirk Hall .. .. .	.. J. T. Joice, Esq.	TF(53)925266	210	...	29.18	182	133
D	Fakenham (Sapelli) .. .. .	.. E. W. Cooper, Esq. ..	TF(53)921296	150	...	27.04	195	134

|| Gauge over-sheltered.

DIVISION IV—EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
NORFOLK—(contd.)				ft.	in.	in.		
2.—YARE. Bure & c. 368 sq. mi.								
D	BURLINGHAM (Horticultural Stn.)	.. Norfolk Education Com'tee	TG(63)373101	89	...	23.58	170	119
D	SPROWSTON	.. Director, Norfolk Ag. Stn.	TG(63)251123	93	25.7	24.71	207	124
D	Yarmouth (Ormesby St. Michael)	.. Great Yarmouth W.W. Co.	TG(63)468152	22	26.2	26.52	161	124
D	Horning (Pumping Station)	.. Great Yarmouth W.W. Co.	TG(63)358164	9	...	23.63	161	127
d	Wroxham (Barton Hall)	.. Lady Delia Peel	TG(63)354221	25	...	24.33	...	108
D	Aylsham (Woodgate House)	.. Lt.-Col. P. W. Purdy	TG(63)183261	100	...	27.96	205	123
||	Worstead (Lyngate Cottage)	.. G. Cross, Esq.	TG(63)312265	50	26.5	30.47	166	140
D	Aylsham (The Mount)	.. Dr. C. L. Maingay	TG(63)189271	90	...	26.29	197	126
D	Aylsham (Banningham Rd.)	.. H. W. Gould, Esq.	TG(63)207284	80	...	27.55	181	129
D	Aylsham (Mill House)	.. R. L. Rust, Esq.	TG(63)197274	50	...	27.77	178	125
D	Hindolveston (Hope House)	.. Mrs. R. A. Pickering		190	...	30.87	193	149
D	Edingthorpe (The Warren)	.. Mrs. Dorothy E. Pearse	TG(63)304311	100	...	26.41	183	127
D	Erpingham (Wolterton Park)	.. Lord Walpole	TG(63)164318	115	...	26.89	160	130
3.—STIFFKEYS & C. 290 sq. mi.								
D	Sandringham House Gardens	.. Mr. H. Parsons	TF(53)695288	121	26.4	26.00	176	136
D	Fulmodestone School	.. E. H. Clements, Esq.	TF(53)994309	214	...	26.35	159	128
D	Holt (Brinton Grange)	.. Sir Charles Bristow, C.I.E.	TG(63)037354	140	...	26.44	180	122
D	Cromer (Northrepps Hall)	.. Lt.-Col. C. R. Gurney	TG(63)232399	200	26.7	26.90	189	132
D	Cromer (Holt Road)	.. Dr. Maurice Mottram	TG(63)207421	175	...	24.42	187	133
D	CROMER (Howards Hill)	.. Clerk to the U.D.C.	TG(63)208422	178	23.8	24.26	182	132
	Cockthorpe (The Old House)	.. Rev. E. C. S. Upcher	TF(53)983422	120	...	22.28	161	119
D	Burnham Market (School House)	.. A. E. Evans, Esq.	TF(53)833422	50	...	22.07	176	129
D	Sheringham (Pine Grove)	.. T. E. Ormond, Esq.	TG(63)165425	70	...	24.14	188	128
D	Wells (Outfall Sewage Works)	.. Surveyor	TF(53)912440	8	...	22.53	189	124
D	Wiveton (Glaven Corner)	.. Canon B. E. Foyster	TG(63)042426	25	...	24.16	198	127
D	Holme-next-Sea (Holme House)	.. Mr. D. E. Plume	TF(53)701435	10	...	23.86	180	124
4.—OUSE & C. 709 sq. mi.								
d	Thetford (Waterworks)	.. Borough Surveyor	TL(52)864846	165	23.8	25.28	...	...
D	Denton Lodge (Pumping Station)	.. Wisbech & District Water Bd.	TL(52)753920	120	...	25.09	176	119
D	Southery (Pumping Station)	.. Feltwell New Fen Drainage Bd.	TL(52)613932	0	...	21.45	172	116
D	Denver Sluice	.. Great Ouse River Board	TF(53)587009	10	...	19.15	146	111
D	Downham (Dial House)	.. Messrs. T. H. Wenn & Co.	TF(53)607031	50	...	20.22	155	114
d	Outwell (Well Creek Sluice)	.. L. F. Fillenham, Esq., C.E.	TF(53)529029	16	22.0	18.52	...	107
d	Stow Bridge (Crabb's Abbey)	.. R. D. Carter, Esq.	TF(53)600078	8	...	20.47	...	...
D	Hilborough Hall Gardens	.. A. McIntyre, Esq.	TF(53)827001	80	...	23.84	153	132
D	Swaffham (Cemetery)	.. Swaffham, U.D.C.	TF(53)821081	210	...	27.44	177	134
D	Shouldham Vicarage	.. Rev. W. F. Hicks		75	...	22.95	178	124
D	MARHAM Airfield	.. (+A) Meteorological Office	TF(53)739087	76	...	21.99	163	114
D	Marham (Pumping Station)	.. J. K. Dawson, Esq.	TF(53)717107	20	...	25.11	165	127
D	Narborough Hall	.. F. H. Ash, Esq.	TF(53)748130	45	25.1	26.10	165	125
D	Wiggshall (St. Germans Sluice)	.. L. F. Fillenham, Esq., C.E.	TF(53)588143	9	23.1	22.65	158	118
D	King's Lynn (North Runcton Lodge)	.. Capt. W. N. Gurney	TF(53)644163	50	...	23.47	170	118
D	TERRINGTON ST. CLEMENT (E. H. FARM)	.. Director	TF(53)547187	13	...	22.79	170	116
D	Terrington St. Clement (Manor Farm)	.. C. W. Cave, Ltd.	TF(53)553204	13	...	24.43	173	120
D	Gayton (Pumping Station)	.. H. G. Ridler, Esq.	TF(53)734207	131	...	22.51	171	121
D	Clenchwarton (The Beeches)	.. Samuel Brown, Esq.	TF(53)594212	10	...	25.57	167	127
D	King's Lynn (Manure Works)	.. W. J. R. Baxter, Esq.	TF(53)622188	0	...	20.90	189	113
D	King's Lynn (Freebridge)	.. Great Ouse River Board	TF(53)613184	15	...	23.92	158	141
D	King's Lynn (Technical College)	.. Principal	TF(53)622196	14	...	23.71	190	120

|| Gauge over-sheltered.

DIVISION V—SOUTH-WESTERN COUNTIES

STATIONS	AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
		National grid reference	Altitude		Rain-fall	Days with -01 in. or more	Days with -04 in. or more

DIVISION V—SOUTH-WESTERN COUNTIES

WILTSHIRE. (Area, 1,370 sq. mi.)

			ft.	in.	in.		
1.—LOWER AVON. 383 sq. mi.							
D Upton Scudamore (Pumping Station)	Engineer & Manager ..	ST(31)862483	305	31·6	30·48	165	129
D Westbury (Wellhead)	Waterworks Engineer ..	ST(31)877501	321	...	31·49	171	138
D Westbury (Braemar)	Mrs. F. D. Richards ..		250	30·4	29·33	174	134
D WEST LAVINGTON (Dauntsey's School)	Headmaster	SU(41)000535	305	28·8	27·89	177	133
D Little Cheverell House	Dr. T. W. Newton Dunn ..	ST(31)992539	300	28·6	29·30	169	133
D Market Lavington (Chestnut Cottage)	John Saxton, Esq.	SU(41)016543	304	29·0	29·04	183	136
D Trowbridge (Bowling Green) ..	Engineer	ST(31)858577	131	...	27·90	164	126
D Bradford-on-Avon (Iford Manor) ..	Miss Serena Peto		101	31·3	30·65	162	119
D Bradford-on-Avon (Frome Road) ..	G. T. Meaden, Esq.	ST(31)825606	108	...	30·73	173	137
D Devizes (Whyte Ridge)	R. Crowder, Esq.		438	29·0	28·47	174	132
D Great Chalfield	Mrs. C. Floyd	ST(31)858633	165	28·6	33·23	213	142
d Melksham (Forest Road)	Bristol Avon River Board	ST(31)903645	123	...	27·05	161	127
d Bowood House	Estate Agent	ST(31)974699	306	...	31·44	...	126
d LACOCK (LACKHAM House)	School of Agriculture ..	ST(31)923702	160	...	28·84	...	114
D Corsham (The Grove)	G. S. Beaty, Esq.		300	...	30·30	156	127
D Chippenham (Waterworks)	Borough Surveyor	ST(31)917728	144	...	28·30	164	126
D LYNEHAM Airfield	(+A) Meteorological Office ..	SU(41)012786	456	...	28·29	160	123
D Chippenham (Littleton Drew) ..	J. D. Marriott, Esq.	ST(31)832802	418	...	31·06	164	136
D Tockenham Manor	Major G. J. Buxton	SU(41)040811	400	28·2	28·50	165	139
d Malmesbury (Norton Manor) ..	Major N. S. Wilson		326	...	32·10	...	...
d Malmesbury (Pinkney Park) ..	Major E. H. L. Rowcliffe ..		310	...	31·54	157	136
D Malmesbury (Elm Leaze)	Miss E. Milnes-Walker ..		260	...	29·43	151	126
2.—STOUR. 33 sq. mi.							
d Mere (Charnage)	W. G. B. White, Esq.	ST(31)833319	426	33·8	32·93	...	...
D Stourhead	H. P. R. Hoare, Esq.	ST(31)777344	583	38·1	37·23	171	141
3.—EAST AVON. 554 sq. mi.							
D Broad Chalke	Dr. H. N. Burroughes ..	SU(41)040253	362	...	39·21	167	142
D Salisbury (Folkestone Road) ..	M. A. Chaplin, Esq.	SU(41)139289	200	...	28·80	177	124
D Tisbury (Gastons Close)	Sqn. Ldr. H. Thrower ..	ST(31)944295	390	...	34·16	155	123
D Fonthill House Gardens	Major J. G. Morrison, M.P.	ST(31)932326	400	37·8	41·30	173	143
D Salisbury (Sewage Works)	(+A) City Engineer	SU(41)149293	147	29·7	28·98	155	122
D Salisbury (Manor Road)	Miss L. C. D. Awdry		250	29·2	30·91	165	122
D Salisbury (Atherton House) ..	W. Fletcher, Esq.	SU(41)150307	250	30·4	28·95	159	123
D Wilton (Stone Lodge)	Major B. W. Parker	SU(41)093311	175	...	33·97	165	131
D Salisbury (Dinton)	Mrs. Bovill	SU(41)014316	300	...	29·73	147	122
D PORTON (C.D.E.E.)	(+A) Meteorological Office ..	SU(41)210366	363	27·2	28·25	162	121
D Steeple Langford (Woodstock) ..	Miss A. J. Powell	SU(41)039373	257	...	36·09	155	120
d Wylve (Fisherton de la Mere) ..	Lt.-Col. F. N. Jeans	SU(41)002391	350	...	30·30	...	121
d Hindon (Lower Pertwood)	Col. J. Houghton Brown, D.S.O.	ST(31)880355	689	...	35·80	...	...
D Maiden Bradley House	The Duke of Somerset ..	ST(31)804387	620	38·4	35·29	151	132
D BOSCOMBE DOWN Airfield	(+A) Meteorological Office ..	SU(41)172393	417	25·8	27·17	163	115
d Warminster (Crockerton Pumping Stn.)	Warminster U.D.C.	ST(31)854423	460	...	34·49	...	133
d Warminster (Henford)	Cmdr. V. J. Robinson, R.N.		400	33·8	32·98	163	133
D LARKHILL (School of Artillery) ..	(+A) Meteorological Office ..	SU(41)137444	430	25·5	28·54	165	120
d Shrewton (Maddington)	Miss V. L. Windsor	SU(41)068443	285	...	27·77	163	135
D Everleigh Rectory	Rev. J. S. Macnutt	SU(41)198541	590	...	32·06	156	131
D UPVAVON Airfield	(+A) Meteorological Office ..	SU(41)164547	450	...	27·71	166	129
D Woodborough (The Manor House) ..	Brigadier N. C. Lang, M.C.	SU(41)113600	400	...	32·09	177	139
D Pewsey (Oare)	Miss F. M. Peall	SU(41)158627	500	29·2	29·21	178	135
d Bishops Cannings	R. J. Combes, Esq.	SU(41)043644	446	30·3	28·97	...	136

DIVISION V—SOUTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
WILTSHIRE—(contd.)				ft.	in.	in.		
4.—TEST. 77 sq. mi.								
d	Whiteparish (Sarum Quarry) ..	.. Agric. Contractors, Ltd. ..	SU(41)219242	345	...	31.48	...	...
d	Ludgershall (Conholt Park) ..	.. Miss H. M. Gaskell ..	SU(41)326550	760	33.9	35.64	170	143
5.—THAMES. Kennet. 169 sq. mi.								
d	Bishops Cannings (Shepherds Shore)	Devizes Gas & Water Dept.	SU(41)048668	567	...	31.74	178	143
d	MARLBOROUGH College ..	.. Headmaster	SU(41)185686	424	31.1	31.69	180	138
d	Aldbourne (Manor House) ..	.. W. A. Brown, Esq. ..	SU(41)260756	435	31.1	31.70	189	144
6.—THAMES. Cole and c. 154 sq. mi.								
d	Wroughton (Swindon Waterworks) ..	J. Ackroyd, Esq., B.Sc., C.E.	SU(41)151803	448	28.5	28.43	161	126
d	Wroughton (Priors Hill) ..	.. K. Browning, Esq. ..	SU(41)147800	510	...	31.39	159	128
d	Chisledon (Hodson House) ..	.. A. Deadman, Esq. ..	SU(41)173805	560	29.0	28.05	183	132
d	Swindon (Town Gardens) ..	.. J. Ackroyd, Esq., B.Sc., C.E.	SU(41)151835	476	27.5	25.74	165	119
DORSET. (Area, 938 sq. mi.)								
1.—PARRETT. 61 sq. mi.								
d	Crewkerne (Chedington) ..	.. F. A. Highmore, Esq. ..	ST(31)493059	605	...	37.49	168	125
d	Yetminster .. ..	.. S./Ldr. G. W. F. Zimmer ..	ST(31)595105	173	...	34.71	213	126
d	Ryme Intrinseca (The Court House) ..	Mrs. B. Thorp	ST(31)581109	232	...	31.41	172	126
d	Sherborne (Sewage Disposal Works)	Sherborne U.D.C. ..	ST(31)629154	164	...	28.89	156	121
d	Sherborne (Leafield Cottage) ..	.. A. S. Arnold, Esq. ..	ST(31)644169	212	...	31.58	...	...
d	Sherborne (Barton Gardens) ..	.. C. E. Bean, Esq. ..	ST(31)628168	285	...	29.25	176	129
d	Sherborne (Waterworks) ..	.. Sherborne U.D.C. ..	ST(31)646169	200	...	28.99	153	123
2.—AXE. 25 sq. mi.								
d	Forde Abbey .. ..	.. G. D. Roper, Esq. ..	ST(31)359052	200	37.7	36.79	150	118
3.—FROME & C. 501 sq. mi.								
d	PORTLAND BILL Lighthouse ..	(+A) Lightkeeper, for M.O. ..	SY(30)677684	32	25.2	27.25	166	113
d	WYEMOUTH (Westham) ..	(+A) Town Clerk	SY(30)676791	16	28.0	31.85	155	123
d	Swanage (Panorama) ..	.. E. Horncastle, Esq. ..	SZ(40)021787	120	...	27.01	157	120
d	Corfe Castle (Waterworks) ..	.. P. S. Browne, Esq. ..	SY(30)960825	35	...	28.69	138	114
d	Creech Grange .. ..	.. J. W. G. Bond, Esq., C.B. ..	SY(30)912823	228	37.1	33.23	182	129
d	Abbotsbury (West Street) ..	.. J. C. P. White, Esq. ..	SY(30)574853	147	29.2	34.46	161	135
d	Abbotsbury (West End) ..	.. The Earl of Ilchester ..		100	...	31.75	133	124
d	Martinstown (The Chantry) ..	.. N. I. Symonds, Esq. ..	SY(30)648888	240	...	39.73	172	134
d	Upwey (Friar Waddon) ..	.. Engineer and Surveyor ..	SY(30)652857	215	...	36.57	162	129
d	Upwey (Higher Well) ..	.. Engineer and Surveyor ..	SY(30)660861	289	...	36.67	159	128
d	Upwey (Elwell) .. ..	.. R. J. Shepstone, Esq. ..	SY(30)667849	130	...	36.52	174	139
d	Warmwell .. ..	.. Weymouth W.W. Co. ..	SY(30)749873	134	...	36.18	159	130
d	Wareham (Trigon) .. ..	.. Miss N. Sturdy	SY(30)886889	60	32.1	32.72	173	126
d	Litton Cheney (Primary School)	.. C. J. Bailey, Esq. ..	SY(30)550902	220	...	33.84	162	123
d	Burton Bradstock (Gages) ..	.. W. H. Hawker, Esq. ..	SY(30)488897	70	...	25.22	164	117
d	Burton Bradstock (White House)	.. Major J. M. Wratishaw ..	SY(30)488896	40	...	28.97	152	124
d	Dorchester (South Court Avenue)	.. E. A. Sparks, Esq. ..	SY(30)693897	220	...	42.35	162	138
d	Dorchester (Queen's Avenue)	.. Miss M. H. G. Bond ..	SY(30)688898	240	...	41.19	162	137
d	Dorchester (Stinsford) ..	.. J. Wyndham Hull, Esq. ..	SY(30)712913	207	37.4	42.01	157	139
d	Dorchester (Birkin House) ..	.. Mrs. Weber	SY(30)713916	230	37.4	41.87	158	134
d	Dorchester (Little Cheam) ..	.. H. F. Middleton, Esq. ..	SY(30)716928	250	...	41.73	174	132
d	POOLE	(+A) Borough Council ..	SZ(40)027915	18	...	27.91	160	121
d	Poole (Pitwines Gasworks) ..	.. Southern Gas Board ..	SZ(40)016906	6	...	29.37	144	121
d	Poole (Henry Harbin School) ..	.. T. Johnson, Esq., B.Sc. ..	SZ(40)012917	20	...	29.38	...	...
d	Parkstone (Balmoral Road) ..	.. Miss M. M. Hall ..	SZ(40)041915	75	...	29.48	170	117
d	Branksome (Bourne Valley) ..	.. Southern Gas Board ..	SZ(40)060926	50	30.0	29.88	151	126

DIVISION V—SOUTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
DORSET—(contd.)				ft.	in.	in.		
3.—FROME & C.—(contd.)								
D	Bournemouth (Alderney Reservoir)	.. Bournemouth Water Co. ..	SZ(40)045950	228	...	29.92	149	124
D	Bridport (Island View)	.. .. Bridport Waterworks Co. ..	SY(30)475935	50	32.9	34.19	152	134
d	Bridport (Morcombelake)	.. .. L. G. Dibdin, Esq. ..	SY(30)407943	525	...	33.59	169	130
d	Morcombelake	.. .. Dr. C. R. Porter ..	SY(30)398948	300	...	37.65	197	141
d	Bloxworth Heath (Research Nursery)	.. Forestry Commission ..	SY(30)884925	80	...	34.00	173	132
D	Bere Regis (Doddings)	.. .. Bedford & Jesty, Ltd. ..	SY(30)851939	280	...	33.44	190	129
D	Puddletown Vicarage	.. .. Rev. Canon T. W. Page-Phillips	SY(30)760944	200	35.8	41.32	158	137
d	Lytchett Matravers (Kit Robins)	.. A. F. Waterman & Son, Ltd.	SY(30)942955	300	...	33.11	160	126
D	Wynford House	.. .. Mrs. Aldridge ..	SY(30)575951	410	43.5	46.86	175	139
D	Beaminster (East Street)	.. .. W. A. Stiby, Esq. ..	ST(31)482011	183	37.6	38.83	160	130
D	Minterne	.. .. Col. The Lord Digby, D.S.O.		800	...	41.56	178	135
4.—STOUR. 384 sq. mi.								
d	Lytchett Matravers School	.. .. Headmaster ..		300	...	32.18	...	...
D	Broadstone (Grange Road)	.. .. R. Nimmo, Esq. ..	SZ(40)004956	160	...	32.26	196	135
D	Corfe Mullen (The Plantation)	.. .. A. J. Russell, Esq. ..	SY(30)975962	300	...	33.72	181	126
D	Wimborne (Corfe Mullen W.W.)	.. Waterworks Engineer ..	SY(30)974982	81	32.9	32.96	159	122
D	Canford (Knighton Farm)	.. .. R. L. Harding, Esq. ..	SZ(40)050977	50	...	32.13	154	123
D	Wimborne (Little Canford)	.. .. Avon & Dorset River Board	SZ(40)048995	48	...	33.75	160	130
D	Wimborne (Stapehill)	.. .. C. J. Marchant, Esq. ..	SU(41)057001	95	...	33.11	148	124
D	Wimborne (Ferndown)	.. .. H. Galton, Esq. ..	SZ(40)076996	75	...	32.06	168	121
D	Wimborne (Walsford Bridge Pump Stn.)	.. Bournemouth Water Co. ..	SU(41)006009	70	...	31.94	158	125
	Blandford (East Street)	.. .. R. Biddulph, Esq.* ..	ST(30)887063	105	...	34.53	...	...
D	Blandford (King's Road)	.. .. D. Blanchard, Esq. ..	ST(31)891069	195	...	35.64	156	129
d	Blandford (Bryanston School)	.. Headmaster ..	ST(31)868074	275	...	31.29	...	...
D	Glanvilles Wootton (Manor House)	.. Miss M. B. Debenham ..	ST(31)682085	250	35.2	35.02	169	130
D	Hazelbury Bryan	.. .. Major T. G. Woolley, T.D.	ST(31)737099	283	...	36.16	171	128
D	Holwell (Little Westrow)	.. .. Miss H. A. Warry ..	ST(31)699107	252	34.4	35.52	176	132
D	Sturminster Newton (Stock Gaylard)	.. Miss Blake ..	ST(31)721124	350	...	30.57	165	125
D	Childe-Okeford Manor	.. .. J. H. L. Glasbrook, Esq. ..	ST(31)839128	250	...	35.22	145	117
D	Shaftesbury (St. Margaret's Marsh)	.. .. G. W. Payne, Esq. ..	ST(31)821190	184	...	28.04	129	106
D	Stour Provost (Diamond Farm)	.. .. Mrs E. H. Trechmann ..		260	...	28.69	147	123
D	Fifehead Magdalen	.. .. Col. R. C. S. Hodgson** ..	ST(31)776213	300	...	27.93	172	122
D	SHAFTESBURY (Modern School)	.. Headmaster, for M.O. ..	ST(31)861228	680	...	32.64	163	129
D	Gillingham (Malt House)	.. .. Col. The Lord Basing ..	ST(31)815273	275	...	29.90	161	126
5.—EAST AVON. 12 sq. mi.								
SOUTH DEVONSHIRE. (Area, 1,707 sq. mi.)								
1.—PARRETT. 7 sq. mi.								
2.—TAMAR & C. 395 sq. mi.								
D	PLYMOUTH (MOUNT BATTEN)	.. (+A) Meteorological Office ..	SX(20)492529	90	37.0	38.48	163	130
D	PLYMOUTH (THE HOE)	.. .. Medical Officer of Health	SX(20)478537	117	36.7	36.35	177	127
D	Plymouth (Drake's Reservoir)	.. .. N. G. Elliot, Esq., C.E. ..	SX(20)481551	149	37.5	37.49	171	134
D	Plymouth (Freedom Fields)	.. .. Medical Officer of Health	SX(20)488554	208	39.4	37.49	182	140
D	Plymouth (Hartley Reservoir)	.. .. N. G. Elliot, Esq., C.E. ..	SX(20)486569	321	39.9	40.70	177	142
D	Plympton (Little Woodford)	.. .. W. P. Cundy, Esq. ..	SX(20)531571	80	...	45.37	186	146
D	Bickleigh (Roborough Reservoir)	.. .. N. G. Elliot, Esq., C.E. ..	SX(20)504630	548	46.2	49.41	205	162

* Per Somerset River Board.

** Per Avon & Dorset River Board.

DIVISION V—SOUTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957				
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more		
SOUTH DEVONSHIRE—(contd.)					ft.	in.	in.				
2.—TAMAR & C.—(contd.)											
D	Lee Moor House	..	..	R. Martin, Esq.	..	SX(20)573628	900	62.4	64.68	197	173
d	Roborough (Maristow Gardens)	..	..	W. H. Tottey, Esq.	..	SX(20)472640	50	...	50.09	...	126
D	Sheepstor (Redstone)	..	..	N. G. Elliot, Esq., C.E.	..	SX(20)558682	760	59.0	62.74	200	170
D	Sheepstor (Burrator)	..	..	N. G. Elliot, Esq., C.E.	..	SX(20)553680	755	59.1	62.90	201	169
D	Sheepstor (Head Weir)	..	..	N. G. Elliot, Esq., C.E.	..	SX(20)553687	730	57.0	63.30	198	168
D	Dousland Reservoir	..	..	N. G. Elliot, Esq., C.E.	..	SX(20)539690	714	51.8	58.44	184	159
M	Dartmoor (Deancombe Farm)	..	..	N. G. Elliot, Esq., C.E.	..	SX(20)578687	807	...	70.39	...	...
D	Dartmoor (Lowery)	..	..	N. G. Elliot, Esq., C.E.	..	SX(20)557694	899	...	64.87	199	172
M	Dartmoor (Leather Tor Farm)	..	..	N. G. Elliot, Esq., C.E.	..	SX(20)566698	910	59.0	71.94	...	...
M	Dartmoor (Siward's Cross)	..	..	N. G. Elliot, Esq., C.E.	..	SX(20)595699	1074	...	82.89	...	...
d	Horrabridge (Dostabrook)	..	..	Mrs. M. F. Corbin	..	SX(20)511700	290	...	55.87	...	...
D	TAVISTOCK	..	..	T. H. Harris, Esq.	..	SX(20)481746	457	47.6	50.16	189	161
d	North Brentor (Langstone)	..	..	T. M. Lashbrook, Esq.	..	SX(20)482811	800	...	54.45	...	168
D	Coryton Manor	..	..	T. Newman, Esq.	..	450	43.5	52.73	202	172	
D	Werrington Park	..	..	E. Stoneman, Esq.	..	SX(20)332872	320	42.8	43.75	193	164
D	Sourton (Prewley Treatment Works)	..	..	K. J. Young, Esq.	..	SX(20)548911	1057	...	63.48	206	175
D	Holsworthy (Pyworthy Rectory)	..	..	Rev. E. P. James	..	SS(21)310022	400	...	42.29	209	158
D	Holsworthy (Bodmeryic)	..	..	Miss A. D. Rogers	..	SS(21)343040	476	42.3	47.84	213	174
3.—ERM & C. 217 sq. mi.											
D	Yealmlpton (Cross Park House)	..	..	Rev. Canon J. V. Yonge	..	SX(20)581502	160	...	43.62	196	151
d	Loddiswell (Hazelwood House)	..	..	Captain W. G. Peek	..	SX(20)727522	280	...	50.00	...	...
D	Wrangaton (Moorhaven Hospital)	..	..	Medical Superintendent	..	SX(20)666575	650	54.2	63.75	195	166
D	South Brent (Badworthy)	..	..	Miss D. B. Latham	..	SX(20)685617	550	64.4	75.73	187	171
D	South Brent (Didworthy Sanatorium)	..	..	Medical Superintendent	..	SX(20)686621	675	...	76.91	205	178
D	South Brent (Bala Brook)	..	..	Engineer, S.Devon Water Bd.	..	SX(20)675627	760	...	88.40	210	177
4.—DART. 197 sq. mi.											
D	Dartmouth (Dean's Lodge)	..	..	P. F. Summers, Esq.	..	SX(20)880505	80	...	39.69	189	144
D	Dartmouth	..	..	Borough Engineer & Surveyor	..	SX(20)879515	9	...	39.05	180	148
D	Brixham	..	..	Pinchin Johnson Assoc. Ltd.	..	SX(20)926556	164	...	36.34	169	130
D	PAIGNTON (Victoria Park)	..	..	Town Clerk	..	SX(20)891608	12	...	35.55	172	136
D	Totnes (Bridgetown)	..	..	W. J. Toope, Esq.	..	45	41.8	43.58	168	145	
D	TOTNES (Dartington Hall)	..	..	Dartington Hall Trust	..	SX(20)782619	100	...	46.30	170	140
D	Broadhempston (Sneydhurst)	..	..	H. S. Burbury, Esq.	..	SX(20)803661	200	...	39.89	184	129
D	Ashburton (West Street)	..	..	W. T. Hannaford, Esq.	..	SX(20)756695	236	51.7	55.26	178	141
D	Ashburton (Hele House)	..	..	Rev. M. H. Needham	..	SX(20)743703	350	...	51.32	175	145
D	Ashburton (Place)	..	..	Mrs. E. Heron Varwell	..	SX(20)764712	400	...	49.92	167	145
D	Dartmoor (Fox Tor)	..	..	Water Eng'r. Paignton U.D.C.	..	SX(20)619706	1160	...	78.61	203	179
D	Dartmoor (Strane Valley)	..	..	Water Eng'r. Paignton U.D.C.	..	SX(20)612720	1180	...	76.64	200	177
D	Dartmoor (Swincombe)	..	..	Water Eng'r. Paignton U.D.C.	..	SX(20)635718	1047	...	72.56	207	180
D	PRINCETOWN (H.M. Prison)	..	(+A)	Governor, for M.O.	..	SX(20)586741	1359	81.9	87.69	197	189
M	Princetown (Blackabrook Intake)	..	..	N. G. Elliot, Esq., C.E.	..	SX(20)587748	1293	...	82.37	...	...
w	Dartmoor (Cowsic Valley)	..	..	N. G. Elliot, Esq., C.E.	..	SX(20)595767	1323	76.7	83.96	...	...
M	Dartmoor (Beardown Hill)	..	..	N. G. Elliot, Esq., C.E.	..	SX(20)605767	1560	...	97.22	...	...
5.—TEIGN. 209 sq. mi.											
D	Torquay (Higher Lincombe Road)	..	..	G. N. Carleton-Stiff, Esq.	..	SX(20)928634	260	...	31.96	162	129
D	TORQUAY (Abbey Park)	..	..	Borough Council	..	SX(20)909638	27	33.0	33.35	159	127
D	Torquay (Lydwel Court)	..	..	J. M. Hepburn, Esq.	..	SX(20)928646	410	...	33.16	174	130
D	NEWTON ABBOT (Seale-Hayne College)	..	..	Principal	..	SX(20)828729	272	34.7	37.32	166	133

¶ Gauge over-sheltered

Gauge over-exposed.

DIVISION V—SOUTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
SOUTH DEVONSHIRE—(contd.)				ft.	in.	in.		
5.—TEIGN—(contd.)								
D	TEIGNMOUTH (Den Gardens) ..	G. F. Rossiter, Esq., B.Sc.	SX(20)941728	20	31.8	28.76	171	125
D	Teignmouth (Hazeldown Reservoir) ..	Engineer & Surveyor	SX(20)935745	425	32.4	31.70	169	133
D	Teignmouth (Landscape Reservoir) ..	Engineer & Surveyor	SX(20)938737	136	33.2	30.43	171	130
D	Kingsteignton (Firleigh Road) ..	M. B. B. Heath, Esq.	SX(20)871743	130	...	33.98	160	119
D	||Dawlish (Holcombe) ..	C. E. Butler, Esq. ..	SX(20)953751	200	...	33.02	192	148
D	Dawlish (Luscombe Castle) ..	Sir Peter Hoare, Bt.	SX(20)943768	175	35.9	34.43	175	147
D	||Dawlish (Beach House) ..	H. S. Marshall, Esq., O.B.E.	SX(20)970775	80	...	28.38	163	141
d	Bovey Tracey (Yarner Wood) ..	Nature Conservancy	SX(20)786792	400	...	49.00	...	142
D	Hennock (Hazelwood) ..	R. P. Kitson, Esq. ..	SX(20)830805	650	...	40.29	176	143
D	Lustleigh (Tottiford) ..	Water Engineer, Torquay ..	SX(20)808824	790	...	42.53	192	149
M	Chagford (Hurstons Ridge) ..	Water Engineer, Torquay ..	SX(20)668828	1350	69.5	81.70	...	...
M	Chagford (White Ridge) ..	Water Engineer, Torquay ..	SX(20)650824	1600	72.2	87.88	...	...
D	Christow (Kennick) ..	Water Engineer, Torquay ..	SX(20)808838	840	...	42.10	214	145
D	Chagford (Metherall) new site.	Water Engineer, Torquay ..	SX(20)672843	1155	...	76.98	220	186
M	Chagford (Thornworthy Down)	Water Engineer, Torquay ..	SX(20)664846	1160	...	71.77	...	...
M	Christow (Smithacott) ..	Water Engineer, Torquay ..	SX(20)799848	850	42.7	44.47	...	...
D	Chagford (Thornworthy) ..	Miss W. H. Varwell	SX(20)670850	1150	64.2	69.66	207	173
D	Chagford (Teignworthy) ..	E. A. Courthope, Esq.	SX(20)676857	1000	...	60.95	215	177
D	Chagford (Yellam Cottage) ..	Cmdr. E. D. Marston, R.N.	SX(20)714870	680	46.1	44.69	182	142
D	Drewsteignton (Newton Barton)	C. A. St. George Moore, Esq.	SX(20)711921	700	...	33.78	185	132
6.—EXE. 445 sq. mi.								
D	EXMOUTH (Salterton Road) ..	(+A) Engineer, U.D.C. ..	SY(30)015813	195	28.6	26.18	166	125
D	Exmouth (Filters, Capel Lane)	Engineer, U.D.C. ..	SY(30)027819	240	30.3	25.45	177	130
D	STARCROSS ..	Min. of Agric. & Fisheries	SX(20)972821	29	...	27.09	162	120
D	Kenton (The Vicarage) ..	Rev. K. E. Alexander	SX(20)957833	100	...	28.33	175	124
D	||Woodbury (Oakhayes) ..	E. S. Chattock, Esq.	SY(30)009873	200	...	28.11	174	126
D	Shillingford Rectory ..	Rev. C. L. O'Ferrall	SX(20)904878	200	...	31.59	181	127
D	Exminster (Trood House) ..	J. R. Ormiston, Esq.	SX(20)926886	75	32.9	31.99	175	127
D	Exeter (Timber Tops) ..	C. Holman, Esq.	SX(20)867914	550	33.8	30.44	165	126
D	Exeter (Heavitree) ..	W. N. Lavis, Esq.	SX(20)943922	112	...	26.87	171	113
D	§Exeter (Devon and Exeter Institute) ..	Librarian ..	SX(20)922925	155	...	26.68	118	109
D	Clyst Honiton (EXETER Airport) (+A)	Meteorological Office	SX(20)995937	106	...	28.17	154	113
D	Rockbeare Manor ..	Mrs. D. Griffith-Williams	SY(30)031939	180	30.7	28.76	136	116
D	Crediton (Haywards School) ..	C. Luxton, Esq.	SS(21)837001	190	33.3	31.59	...	...
D	Crediton (Okefield) ..	Seymour F. Pope, Esq.	SS(21)832006	325	32.2	30.36	180	133
D	Crediton (Shobrooke House) ..	Lady Shelley	SS(21)860010	360	...	31.22	178	135
D	Copplestone (Copplestone House)	Cmdr. W. Pope, R.N., D.S.O.	SS(21)771020	325	34.4	32.64	189	149
D	§Silverton (Parsonage Lane) ..	A. G. Smale, Esq.	SS(21)958032	300	...	35.23	175	154
D	Hemyock (Mountshayne) ..	B. G. Clist, Esq., B.Sc.	ST(31)139126	606	...	38.69	185	136
D	§Tiverton (Cowley Lodge) ..	E. G. Peirce, Esq.	SS(21)965132	250	37.3	34.48	161	125
D	§Cullompton (Uffculme) ..	F. C. Doidge, Esq.	ST(31)068129	320	...	35.09	166	133
D	UFFCULME (County Sec. School)	Headmaster ..	ST(31)064129	400	...	34.43	188	134
D	Culmstock (Woodgate Farm)	T. Langdon Hine, Esq.	ST(31)102152	550	...	35.07	180	134
d	Hemyock (Culm Davy House)	Capt. F. R. Elmes, J.P.	ST(31)124146	512	...	33.74	...	118
D	Morebath Manor ..	Major F. R. Rothwell	SS(21)958257	600	44.3	45.58	177	148
7.—AXE & C. 237 sq. mi.								
D	Budleigh Salterton ..	R. Jones-Bateman, Esq.	SY(30)043832	370	...	27.26	194	127
w	Budleigh Salterton (Squabmoor)	Engineer, Exmouth U.D.C.	SY(30)039839	267	31.9	28.52	...	...
D	Venn Ottery ..	W. H. L. Hurman, Esq.	SY(30)080914	200	...	31.50	167	130
w	East Budleigh (Yettington Intakes)	Engineer, Exmouth U.D.C.	SY(30)038858	300	32.2	29.31	...	...
D	East Budleigh (Bicton Gardens)	W. L. McCaskie, Esq.		90	31.4	25.85	155	119

|| Gauge over-sheltered.

§ Site unorthodox.

DIVISION V—SOUTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957		
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
SOUTH DEVONSHIRE—(contd.)					ft.	in.	in.		
7.—AXE & C.—(contd.)									
D	SIDMOUTH .. ..	..	Borough Surveyor	SY(30)124873	25	...	27.55	149	133
D	Beer (Windyridge) .. ..	..	J. G. Sargent, Esq.	SY(30)225894	200	...	30.62	155	126
D	Beer (Set Fair) .. ..	..	C. K. M. Douglas, Esq. ...	SY(30)226892	170	...	31.96	178	134
D	Seaton (Marlpit Lane) ..	..	H. S. Stewart, Esq. ...	SY(30)240901	150	...	29.34	162	133
D	Lyme Regis (Pinhay) .. ..	..	Major Ormsby Allhusen ..	SY(30)315913	450	34.9	34.12	183	130
D	Colyton (Colyford) .. ..	..	A. R. Forbes, Esq. ...	SY(30)244923	110	...	34.84	177	122
D	Ottery St. Mary (Broad Oak)	..	Miss Tallant	SY(30)071928	300	...	33.93	190	133
d	Ottery St. Mary (The King's School)	..	Headmaster	SY(30)088953	175	...	32.32	163	129
D	Seaton Junction .. ..	..	Express Dairy Co. Ltd. ..	SY(30)249965	114	...	32.67	154	112
D	Kilmington (Springfield)	..	Major J. M. Brierley, M.B.E.	SY(30)268987	220	...	37.71	184	125
D	Axminster (Gamberlake House)	..	Mrs. E. B. Bayley		120	...	36.58	173	130
D	Hawkchurch (Castle House) ..	..	A. H. Noble, Esq.	ST(31)343004	278	...	34.12	161	126
D	Honiton (Feniton Court) .. ..	..	Brig. P. B. E. Acland	SY(30)109995	200	36.4	35.54	168	138
D	Honiton (Cotleigh House) ..	..	R. Williams, Esq.	ST(31)207022	540	...	42.81	175	137
D	Stockland (The Knoll) .. ..	..	Dr. Mary Stoker-Murdy ..		300	...	40.10	148	133
D	Up-Ottery .. ..	..	Major P. L. Villar, M.C. ..	ST(31)208089	690	...	42.15	205	150
NORTH DEVONSHIRE. (Area, 898 sq. mi.)									
1.—NORTH COAST STREAMS. 77 sq. mi.									
	Longstone Barrow .. ..	..	C. H. Archer, Esq. ...	SS(21)708428	1550	...	78.34	...	...
D	Ilfracombe Reservoir .. ..	..	Urban District Council ..	SS(21)505453	395	46.9	50.27	190	169
D	ILFRACOMBE (Bowling Green)	..	Urban District Council ..	SS(21)520478	25	37.4	41.69	187	144
2.—TAW. 442 sq. mi.									
D	Bow (Rosehill) .. ..	..	Miss M. Pope	SS(21)726018	400	...	32.67	201	142
D	North Tawton .. ..	..	K. J. Young, Esq.	SS(21)672022	537	...	33.62	183	143
D	Morchard Bishop Rectory ..	..	Rev. H. J. A. Rusbridger ..	SS(21)768077	560	...	30.44	205	150
D	East Anstey (Barton House) ..	..	Mrs. E. L. Hancock	S2(21)867266	760	...	51.65	190	172
D	Chittlehampton (Stowford House)	..	T. R. M. Cardus, Esq. ..	SS(21)633266	275	...	37.64	188	154
d	West Buckland School .. ..	..	W. F. Dale, Esq.	SS(21)667314	650	...	47.43	...	...
D	CHIVENOR Airfield	(+A)	Meteorological Office ..	SS(21)494347	20	...	33.47	182	146
D	Goodleigh Rectory .. ..	..	Rev. R. Y. Holmes	SS(21)603341	371	...	44.79	195	160
D	Braunton (Knowle) .. ..	..	Miss A. C. Dowden	SS(21)493385	150	...	42.92	205	159
D	Challacombe (Chase Terrace)	..	Ilfracombe U.D.C.	SS(21)689410	904	62.8	69.20	196	182
w	Wistlandpound Reservoir ..	..	N. Devon Water Board ..	SS(21)642416	825	...	65.94	...	...
3.—TORRIDGE. 342 sq. mi.									
M	Dartmoor (Newbridge) .. ..	..	G. L. Pillar, Esq., for M.O.		1500	63.3	74.20	...	...
D	Okehampton (Waterworks) ..	..	Borough Engineer	SX(20)577938	860	51.7	55.55	207	175
D	Beaworthy (Shebbear College)	..	E. F. Foss, Esq.	SS(21)447094	540	...	47.21	202	164
D	Winkleigh (Places) .. ..	..	R. A. B. Coad, Esq.	SS(21)619085	500	...	36.01	181	155
D	Beaford (Great Warham) .. ..	..	Lt.-Cdr. J. K. Elliot, R.N. ...		280	...	40.58	204	159
D	Torrington (Caynton House) ..	..	C. T. Davenport, Esq., M.A.	SS(21)497191	278	39.3	35.05	184	147
D	Parkham (Melbury Reservoir)	..	A. Brewer, Esq.	SS(21)386201	515	54.6	50.78	194	172
D	Bideford (Jennett's Reservoir)	..	Borough Surveyor	SS(21)445246	62	40.8	37.38	193	152
D	Bideford (Gammaton Reservoir)	..	Borough Surveyor	SS(21)483253	350	...	36.27	183	152
d	Bideford (Woodtown) .. ..	..	C. J. Twist, Esq.	SS(21)491260	283	...	44.36	...	...
D	Northam (Windmill Lane) ..	..	S. Welsford Pain, Esq. ..	SS(21)454291	200	...	34.73	194	150
D	Westward Ho! (Royal Golf Club)	..	Steward	SS(21)443297	10	34.4	38.50	182	154

¶ Gauge over-sheltered.

DIVISION V—SOUTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957			
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more	
NORTH DEVONSHIRE—(contd.)					ft.	in.	in.			
4.—WEST COAST STREAMS. 32 sq. mi.										
D	Hartland (Fosfelle)	.. ..	Mrs. L. J. Chadder	..	SS(21)264237	480	46.0	44.97	213	167
D	Clovelly Court	.. ..	Clovelly Estate Co. Ltd.	..	SS(21)319251	300	...	53.32	197	168
D	HARTLAND POINT (Coastguard Stn.)	..	Station Officer, for M.O.	..	SS(21)231277	299	...	34.05	194	142
5.—EXE. 5 sq. mi.										
	Kinsford Gate (Span Head)	.. ..	C. H. Archer, Esq.	..	SS(21)735367	1590	...	81.05	...	...
CORNWALL. (Area, 1,363 sq. mi.)										
1.—CAMEL & N.W. COAST STREAMS. 458 sq. mi.										
D	Crowan (Boswyn Reservoir)	.. ..	Camborne Water Company		SW(10)660362	511	47.6	48.15	216	167
D	Hayle (St. Erth)	.. ..	St. Erth Creamery	..	SW(10)543359	50	...	40.95	200	148
D	St. Ives (Halsetown Vicarage)	.. ..	Rev. T. C. F. Barfett	..	SW(10)508401	324	...	39.52	210	156
D	St. Ives (Bussow Moor)	.. ..	Borough Surveyor	..	SW(10)502392	390	48.6	43.07	193	149
D	CAMBORNE (Rosewarne)	.. ..	Rosewarne Exp. Hort. Stn.		SW(10)643412	250	...	38.19	191	149
d	St. Agnes (Church Town)	.. ..	Dr. Henry Whitworth	..	SW(10)721504	318	...	36.60	...	...
D	NEWQUAY (Mount Wise)	.. ..	Urban District Council	..	SW(10)812614	176	33.2	32.51	185	142
D	St. MAWGAN Airfield	.. ..	(+ A) Meteorological Office	..	SW(10)871642	337	...	35.91	190	145
D	Bodmin (Castle Hill House)	.. ..	Major Hare	..	SX(20)077674	484	49.4	45.99	201	161
D	Wadebridge (Trevanson)	.. ..	Brigadier R. M. Jerram, D.S.O. M.C.	..	SW(10)978729	100	...	38.13	219	154
D	Constantine Bay	.. ..	C. Paris Jones, Esq.	..	SW(10)867745	102	...	30.29	176	138
D	Padstow (The Nook)	.. ..	J. W. V. Sheldon, Esq.	..	SW(10)914755	110	...	32.02	184	153
D	Padstow (Barrys Lane)	.. ..	B. W. Kinsmen, Esq.	..	SW(10)917755	25	...	34.24	181	154
D	Trevone (Pentonwarra)	.. ..	W. M. Lindley, Esq.	..	SW(10)890759	25	...	30.38	180	141
D	Trebetherick (Pendalen)	.. ..	A. Griffiths, Esq.	..	SW(10)938773	150	...	35.12	200	154
D	Camelford (Stannon Clay Works)	.. ..	English China Clays, Ltd.		SX(20)128809	850	54.8	59.83	222	180
D	Camelford (Advent)	.. ..	W. O. Martyn, Esq.	..	SX(20)127830	890	...	63.17	210	181
D	Camelford (Roughton View)	.. ..	D. W. Bogle, Esq., for M.O.		SX(20)105833	700	...	61.66	225	178
D	Delabole..	.. ..	Delabole Slate Co., Ltd.	..	SX(20)075835	650	...	48.42	207	164
D	Bossiney ..	.. ..	Mrs. W. Stephens	..	SX(20)065889	290	...	37.84	196	154
D	BUDE (School House)	.. ..	U.D.C.	..	SS(21)208063	50	33.4	32.00	192	148
2.—FOWEY & S.E. COAST STREAMS. 620 sq. mi.										
D	THE LIZARD (Coastguard Station)	.. ..	Station Officer, for M.O.	..	SW(10)701119	240	...	31.64	192	137
D	Ruan Minor (Poltesco)	.. ..	A. A. Ironside, Esq.	..	SW(10)723158	120	...	37.62	181	148
d	Porthcurno	.. ..	Cable & Wireless, Ltd.	..	SW(10)385227	180	36.2	35.18	...	135
D	Culdrose (R.N. Air Station)	.. ..	Naval Weather Service	..	SW(10)669264	268	...	32.20	164	136
	Mawnan Smith	.. ..	Brig.-Gen. H. D. Croft*	..	SW(10)787275	205	...	39.33	178	153
D	Falmouth (Constantine)	.. ..	P. Harrison, Esq.	..	SW(10)746291	310	...	45.07	193	154
D	Wendron (Boderwennack)	.. ..	Helston & Porthleven W. Co.		SW(10)678307	458	45.1	45.01	197	156
d	Penzance (Trewidden)	.. ..	Mrs. C. Williams	..	SW(10)443296	275	43.2	44.35	...	156
D	St. Michael's Mount	.. ..	Lord St. Levan	..	SW(10)516300	16	...	37.33	175	147
D	PENZANCE (Penlee Gardens)	.. ..	Town Clerk	..	SW(10)473300	62	40.9	42.56	189	154
D	Penzance (Tregwainton House)	.. ..	Col. Sir E. H. W. Bolitho, C.B.		SW(10)445313	370	46.4	45.62	192	159
D	GULVAL	.. ..	Sutton & Sons	..	SW(10)486317	20	41.5	39.58	185	145
D	FALMOUTH	.. ..	Town Clerk	..	SW(10)802325	167	43.6	41.99	187	146
D	Penryn Reservoirs	.. ..	Falmouth Corp'n. W.W.	..	SW(10)777337	236	...	44.21	175	144
D	St. Mawes (Lawn Bank)	.. ..	C. Whiley, Esq.	..	SW(10)854330	100	...	37.20	162	141
D	Gwennap (Trevince)	.. ..	C. H. Beauchamp, Esq.	..	SW(10)737403	240	45.5	45.19	195	159
D	Portmellon	.. ..	Major H. Barter	..	SX(20)018437	120	...	38.88	181	143
D	Truro W.W. (Lower Tregurrow)	.. ..	Manager	..	SW(10)847464	59	42.2	39.87	194	141
D	Ladock (Pumping Station)	.. ..	W. C. J. Truscott, Esq.	..	SW(10)891511	98	...	39.69	197	158
D	St. Stephen (Hendra Pumping Stn.)	.. ..	St. Austell R.D.C.	..	SW(10)966518	234	...	44.31	202	162
D	ST. AUSTELL (Poltair Public Gardens)	.. ..	Engineer & Surveyor	..	SX(20)018525	312	45.8	45.32	201	162

|| Gauge over-exposed.

* Per Cornwall Rainfall Association.

DIVISION V—SOUTH-WESTERN COUNTIES—(contd.)

STATIONS			AUTHORITIES			Rain-gauge site		Average Rain-fall	1957		
						National grid reference	Altitude		Rain-fall	Rain-fall	Days with .01 in. or more
CORNWALL—(contd.)							ft.	in.	in.		
2.—FOWEY & S.E. COAST STREAMS—(contd.)											
D	St. Austell (Trethurgy) .. ..	..	Lantern China Clay Co., Ltd.	SX(20)042553	450	...	55.99	215	171	
d	Lerryn (Fore Street) .. ..	..	G. Barrett, Esq.	SX(20)142573	40	...	41.97	192	152	
D	Looe (Polteana) .. ..	..	W. C. Crowther, Esq., M.A.	SX(20)232555	60	...	43.88	210	148	
D	Liskeard (Penmilder) .. ..	..	Miss W. P. Foster	SX(20)242636	250	...	49.18	199	165	
D	Liskeard (Treventon) .. ..	..	E. R. Foster, Esq.	SX(20)262656	360	47.7	47.44	202	159	
3.—TAMAR & C. 279 sq. mi.											
D	§St. Mellion (ELLBRIDGE Exp. Stn.) ..	..	Horticultural Superintendent	SX(20)401632	200	...	40.29	194	146	
D	St. Mellion (Pentillie Castle) .. ..	..	Capt. J. G. Coryton	SX(20)410645	150	...	47.03	198	152	
D	Pensilva .. ..	..	R. H. Hunkin, Esq.	SX(20)291697	700	...	57.70	193	170	
D	Launceston (Bastreet, North Hill) ..	..	S. E. Cornwall Water Board	SX(20)248768	800	...	54.82	208	169	
D	Launceston (Landue) .. ..	..	Miss S. E. Tregoning	SX(20)351797	225	42.5	40.20	189	152	
d	Launceston (Western Road) .. ..	..	Cornwall River Board	SX(20)327839	430	...	42.95	...	141	
d	Boyton (Ditchen) .. ..	..	G. H. D. Heath, Esq.	SX(20)309947	455	...	43.28	...	152	
	Egloskerry (Tregeare) .. ..	..	Miss D. M. B. Lethbridge*	SX(20)243864	513	43.1	50.21	...	...
D	||North Tamerton (Davies) .. ..	..	W. S. Bray, Esq.	SX(20)314982	390	35.9	31.85	194	148	
4.—INSULAR. Isles of Scilly. 6 sq. mi.											
D	||St. MARY's (Coastguard Station) ..	..	Station Officer, for M.O. ..	SV(00)913120	158	31.9	30.73	194	137	
D	Tresco Abbey .. ..	..	Lt.-Comdr. T. M. Dorrien Smith	SV(00)896143	40	33.4	28.67	213	137	
M	Tresco (Rowesfield) .. ..	..	Lt.-Comdr. T. M. Dorrien Smith	SV(00)891143	40	...	27.55	...	...
SOMERSET. (Area, 1,624 sq. mi.)											
1.—LOWER AVON. 294 sq. mi.											
	Witham Friary Vicarage .. ..	..	Rev. H. G. Bawtree-Williams**	ST(31)746415	350	...	32.20	...	...
	Wanstrow (Riverside House) .. ..	..	A. Febrey, Esq.**	ST(31)714418	445	37.7	39.16	...	...
D	Shepton Mallet (Pondsmead) .. ..	..	Lady Hobhouse	ST(31)636472	710	44.9	44.78	195	159	
D	Frome Waterworks (Egford) .. ..	..	B. H. Parkes, Esq.	ST(31)756480	270	35.8	33.64	161	125	
D	Mells (The Manor House) .. ..	..	Mrs. K. Asquith		340	37.2	39.56	181	133	
D	Stratton-on-Fosse (Downside Abbey) ..	..	Bursar	ST(31)656507	600	41.5	40.32	175	146	
d	Orchardleigh Park .. ..	..	A. Duckworth, Esq.		307	32.8	38.79	159	138	
d	Chilcompton (Manor Farm) .. ..	..	R. F. Mattick, Esq.		550	...	46.41	...	...
D	Radstock (Ammerdown House) .. ..	..	Mr. L. Sweeting		450	39.4	45.96	173	146	
D	Chewton Mendip (The Priory) .. ..	..	The Earl of Waldegrave ..		580	42.7	45.98	182	148	
w	East Harptree (Pitt Farm) .. ..	..	R. W. M. Melvin, Esq. ..	ST(31)561544	705	46.7	50.29	...	...
D	Litton (Sherborne Reservoir) .. (+A)	..	R. W. M. Melvin, Esq. ..	ST(31)592550	336	40.0	39.63	179	143		
w	Harptree Hill .. ..	..	R. W. M. Melvin, Esq. ..	ST(31)543559	784	43.9	48.60	...	...
d	East Harptree (Coley) .. ..	..	A. J. Wookey, Esq.	ST(31)581566	260	...	41.11	...	147	
D	East Harptree (Townsend Pumping Stn.)	..	Water Eng'r, Clutton R.D.C.	ST(31)572567	220	39.8	40.64	169	137		
D	Hinton Blewett Manor .. ..	..	H. S. Russell, Esq.		500	39.6	40.99	174	140	
w	North Widcombe .. ..	..	R. W. M. Melvin, Esq. ..	ST(31)580577	215	35.8	37.00	...	...
w	Chew Stoke (Heron's Green) .. ..	..	R. W. M. Melvin, Esq. ..	ST(31)583590	179	36.2	38.14	...	...
D	Pensford (Sutton Court) .. ..	..	Lord Strachie		280	37.0	44.58	180	149	
D	Midford (Tucking Mill Pumping Stn.)	..	Bath Corporation W.W. ..	ST(31)763616	135	...	32.26	168	135		
D	Chew Stoke (Pumping Station)† ..	..	R. W. M. Melvin, Esq. ..	ST(31)570619	202	35.5	33.71	164	136	
w	Ridgehill .. ..	..	R. W. M. Melvin, Esq. ..	ST(31)540625	400	36.0	37.18	...	...
w	Chew Magna (Norton) .. ..	..	R. W. M. Melvin, Esq. ..	ST(31)578657	342	...	35.34	...	...
D	BATH (Henrietta Park) .. ..	..	Medical Officer of Health ..	ST(31)754653	67	30.3	29.39	171	129	
D	Bath (Southstoke Road) .. ..	..	P. Hambleton, Esq.	ST(31)748615	525	32.6	33.51	182	130	
D	Bath (Monkton Combe) .. ..	..	W. G. Lock, Esq.		450	30.3	29.70	190	128	

§ Turf wall round gauge.

* Per Cornwall Rainfall Association.

** Per Somerset River Board.

|| Gauge over-sheltered.

† Formerly called Chew Stoke (Walley Court).

DIVISION V—SOUTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain- fall	1957		
			National grid reference	Altitude		Rain- fall	Days with ·01 in. or more	Days with ·04 in. or more
SOMERSET—(contd.)				ft.	in.	in.		
1.—LOWER AVON—(contd.)								
D	BATH (City Boys School)	.. .. Medical Officer of Health	ST(31)751638	388	...	31·73	159	131
D	Bath (Charlcombe)	.. .. Bath Corporation W.W.	ST(31)750668	288	31·4	31·53	169	129
W	Felton (Upper Town)	.. .. R. W. M. Melvin, Esq.	ST(31)525660	550	38·2	38·79	...	...
D	Batheaston Reservoir	.. .. Bath Corporation W.W.	ST(31)769685	248	31·1	30·92	160	129
D	Keynsham (Wellsway)	.. .. A. E. Stephens, Esq.	ST(31)658674	134	29·6	26·83	...	...
D	Keynsham (Somerdale)	.. .. J. S. Fry & Sons, Ltd.	ST(31)656696	58	29·4	27·99	160	116
D	Barrow Gurney Reservoir	.. .. R. W. M. Melvin, Esq.	ST(31)537679	300	34·4	33·91	165	132
W	Lansdown	.. .. Bath Corporation W.W.	ST(31)733692	380	33·2	32·47	...	...
D	Long Ashton (School House)	.. .. J. B. Randell, Esq.	ST(31)547706	161	...	35·00	178	138
D	LONG ASHTON (Research Station)	.. Director	ST(31)533698	162	34·1	34·62	170	130
D	Failand House	.. .. Paul Robinson, Esq.	ST(31)516734	380	34·6	35·38	159	127
2.—YEO, AXE & BRUE. 405 sq. mi.								
d	Bruton (South Brewham)	.. .. G. E. May, Esq.	ST(31)728358	350	35·7	34·15	151	110
D	Street (Low Level Reservoir)	.. .. Surveyor, U.D.C.	ST(31)488363	100	...	24·71	150	121
D	Leigholt	.. .. Bancroft Clark, Esq.	ST(31)488353	...	...	27·50	153	122
d	Street (Sewage Farm)	.. .. Surveyor U.D.C.	ST(31)481373	18	...	28·27	...	...
D	Street (Millfield)	.. .. Bancroft Clark, Esq.	ST(31)492363	100	28·8	30·51	169	141
D	Ashcott (Bradley Cottage)	.. .. G. Thomson, Esq.	ST(31)439366	114	...	28·64	175	130
W	Sharpham (Turffmoor)	.. .. F. R. Underwood, Esq.	ST(31)471379	15	...	28·75	...	...
d	Bridgwater (Puriton)	.. .. R. Evis, Esq.*	ST(31)322416	50	...	30·77	...	127
¶	Cossington (Gold Corner)	.. .. Somerset River Board	ST(31)367431	12	...	30·84	...	...
D	Shepton Mallet (Charlton)	.. .. C. E. Burnell, Esq., J.P.	ST(31)630433	481	38·8	37·11	172	132
d	Shepton Mallet (Sewage Farm)	.. .. Surveyor, U.D.C.	ST(31)601440	350	38·7	38·73	...	...
D	Highbridge (Bason Bridge)	.. .. Wilts United Dairies, Ltd.	ST(31)348458	17	...	30·09	155	127
	Highbridge (Mark)	.. .. R. J. Tewkesbury, Esq.*	ST(31)350481	19	...	29·04	...	...
	Wells (Chamberlain St.)	.. .. Wells City Council*	ST(31)535452	75	...	31·01	...	...
D	Wookey Hole (Elm Batch)	.. .. W. Speed, Esq.	ST(31)532478	238	36·1	36·78	161	136
D	Burnham	.. .. Surveyor, U.D.C.	ST(31)306494	24	28·5	26·39	154	124
d	Burnham (Berrow Road)	.. .. Miss M. Robinson	ST(31)304506	10	29·2	26·63	...	119
	Brent Knoll (Station Road)	.. .. J. B. Morris, Esq.*	ST(31)327515	15	...	28·63	...	...
D	Cheddar (Pumping Station)	.. .. R. W. M. Melvin, Esq.	ST(31)452534	50	33·6	36·03	173	141
W	Charterhouse	.. .. R. W. M. Melvin, Esq.	ST(31)490551	619	43·2	43·49	...	...
d	Cheddar (Shipham Hill)	.. .. Callow Rock Lime Co. Ltd.	ST(31)447560	540	...	41·70	...	...
	Bleadon	.. .. H. Leeming, Esq.	ST(31)340564	25	...	30·39	...	...
D	Winscombe (Mendip View)	.. .. C. Gibbins, Esq.	ST(31)415573	100	...	37·34	170	145
M	Winscombe (Bore Hole)	.. .. Surveyor, Burnham U.D.C.	ST(31)407577	56	...	37·13	...	...
d	Winscombe (Sidcot School)	.. .. Headmaster	ST(31)430582	230	...	35·39	152	119
D	Winscombe (Wintrath)	.. .. D. B. Grubb, Esq.	ST(31)435577	290	35·8	37·70	169	141
	Blagdon Hill	.. .. H. G. Bruton, Esq.	ST(31)498587	550	...	43·89	...	...
	Hutton (The Orchard House)	.. .. W. L. Roseveare, Esq.*	ST(31)351577	50	...	31·84	...	...
D	Blagdon (Pumping Station)	.. .. R. W. M. Melvin, Esq.	ST(31)504604	112	37·0	37·56	156	134
D	WESTON-SUPER-MARE (Clarence Park)	.. .. Medical Officer of Health	ST(31)318602	28	29·9	31·15	159	125
D	Wrington (Barley Wood)	.. .. Capt. D. M. Wills, C.B.E.	ST(31)479629	200	...	34·38	137	120
	Wick St. Lawrence	.. .. Late D. J. W. Hiscocks, Esq.*	ST(31)652365	17	...	30·33	...	...
D	Yatton (Pumping Station)	.. .. Long Ashton, R.D.C.	ST(31)422659	17	...	32·61	168	128
D	Yatton (Chelvey)	.. .. R. W. M. Melvin, Esq.	ST(31)473679	60	32·5	32·53	169	135
	Congresbury	.. .. P. H. Hoy, Esq.*	ST(31)438632	36	...	30·77	...	...
D	West Town	.. .. Theodore Robinson, Esq.	ST(31)481680	80	31·9	34·67	169	136
D	Clevedon (Tickenham Road P.S.)	.. .. R. W. M. Melvin, Esq.	ST(31)425715	50	31·2	31·70	165	133
D	Wraxall Court	.. .. Head Gardener	ST(31)489721	200	...	32·47	162	130
D	Walton-in-Gordano	.. .. Lt.-Col. Sir Chas. Miles, Bt.	ST(31)422733	80	...	31·44	178	136
D	Portishead (Bristol Road)	.. .. R. W. M. Melvin, Esq.	ST(31)472755	20	34·9	32·15	163	129
d	Portishead (Redcliffe Bay)	.. .. R. A. S. Heaven, Esq.	ST(31)441758	180	...	34·04	...	...

|| Gauge over-sheltered.

¶ Gauge over-exposed.

* Per Somerset River Board.

DIVISION V—SOUTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
SOMERSET—(contd.)				ft.	in.	in.		
3.—PARRETT. 568 sq. mi.								
D	Misterton (Henley)	.. .. Imperial Chem. Indus., Ltd.*	ST(31)440076	475	...	35.56	169	133
D	Misterton	.. .. Miss M. D. Bindley	ST(31)458083	300	...	34.49	145	122
d	Crewkerne (Lyme Road)	.. .. Dr. F. J. Woodley	ST(31)438089	400	...	37.07	150	124
	Crewkerne (The Reservoir)	.. .. Surveyor	ST(31)437086	425	33.7	36.49	...	...
D	Crewkerne (Bincombe House)	.. .. Major R. A. Russell, T.D.	ST(31)436108	293	34.7	31.85	167	120
D	Sutton Bingham Reservoir	.. .. Yeovil R.D.C.	ST(31)556114	182	...	33.02	172	120
D	Yeovil (Reckleford Junior School)	.. .. Headmaster	ST(31)560162	150	...	34.23	138	115
D	Yeovil (Pen Mill Sewage Works)	.. .. Borough Surveyor	ST(31)572162	100	30.6	34.22	166	128
D	Norton-sub-Hamdon (Fruit Farm)	.. .. Lt.-Cmdr. W. E. Halsey	ST(31)467177	126	...	24.75	158	121
D	Pitminster (Blagdon Hill)	.. .. R. B. A. Hankey, Esq.		725	...	40.58	203	149
D	Angersleigh (Leigh Reservoir)	.. .. Taunton Waterworks	ST(31)197176	530	...	37.94	169	130
	Compton Durville (Waterworks)	.. .. Langport R.D.C.*	ST(31)417171	60	...	25.50	...	...
D	BICKENHALL	.. .. (+A) A. H. Turner, Esq.	ST(31)292180	231	...	35.53	177	122
D	Ilminster (Ashwell)	.. .. W. F. Hosegood, Esq.*	ST(31)363158	100	...	27.62	106	97
d	Sampford Arundel (Rose Cottage)	.. .. Mrs. S. G. Williams	ST(31)112180	420	...	39.42	...	...
D	Ashbrittle (Kyrle)	.. .. Major J. H. Mathias	ST(31)051220	525	...	35.31	189	138
d	Martock (The Paddock)	.. .. G. E. Barron, Esq.	ST(31)462190	60	29.6	25.85	151	118
D	Taunton (Vivary Park)	.. .. Medical Officer of Health	ST(31)228238	71	27.5	26.81	166	106
	Queen Camel (England's Side)	.. .. Mrs. V. M. Brendon*	ST(31)594248	100	...	26.84	...	...
d	Taunton (St. George's Rectory)	.. .. Canon R. A. Iles	ST(31)223244	90	...	27.72	...	...
D	Milverton (Olands Cottage)	.. .. Miss E. R. Broadmead	ST(31)117254	330	...	31.58	155	131
	Langport (Drayton)	.. .. E. Dabinett, Esq.*	ST(31)407237	46	...	28.17	...	...
D	Milverton (Rivers Farm)	.. .. A. Wimbush, Esq.	ST(31)109269	300	...	31.90	180	133
D	Wiveliscombe (Culverhead)	.. .. Lt.-Col. H. Jefferys-Taylor*	ST(31)075274	450	39.6	40.24	174	124
d	Wiveliscombe (Ford)	.. .. A. W. Sanders, Esq.*	ST(31)093289	350	...	35.51	...	125
D	Langport (Sandpits Hill)	.. .. Miss V. M. Page	ST(31)402260	150	...	28.45	170	126
D	North Cadbury	.. .. H. R. Watson, Esq.	ST(31)635272	240	...	30.80	186	141
d	Somerton (Erleigh)	.. .. A. R. E. Pretor-Pinney, Esq.	ST(31)501285	106	...	27.01	...	122
	Somerton Court	.. .. Col. E. A. Bray*	ST(31)497283	60	...	26.10	...	...
D	Langport (Low Ham)	.. .. N. G. Hardisty, Esq.*	ST(31)435297	67	...	27.92	174	120
D	Wiveliscombe (Bulland Lodge)	.. .. Air V.-M. A. J. Capel, C.B.	ST(31)054274	790	42.1	43.12	190	150
D	Kingston St. Mary (Hillside)	.. .. Lt.-Col. W. H. F. Routh*	ST(31)221300	330	...	27.17	170	126
D	Broomfield (The Old Vicarage)	.. .. Late Rev. R. A. W. Newman	ST(31)220320	700	...	31.75	190	139
	Broomfield (Higher Merridge)	.. .. A. N. Marriage, Esq.*	ST(31)208339	755	...	33.56	...	...
D	Bishop's Lydeard (Watts House)	.. .. Estate Agent	ST(31)601518	320	...	27.03	164	128
	Bab Cary (The Cedars)	.. .. D. R. May, Esq.*	ST(31)573288	150	...	27.20	...	...
	West Sedgemoor (Pumping Station)	.. .. Somerset River Board	ST(31)376286	25	...	25.87	...	...
	Athelney (Currymore Pumping Stn.)	.. .. Somerset River Board	ST(31)344288	20	...	26.16	...	...
	Taunton (East Lyng)	.. .. J. T. Ames, Esq.	ST(31)335289	43	...	27.58	...	...
	Durston (West Newton Farm)	.. .. C. J. Hill, Esq.*	ST(31)287291	130	...	26.63	...	...
D	§Clatworthy (Whites Farm)	.. .. Taunton Waterworks	ST(31)057309	823	...	45.61	185	155
M	§Clatworthy (Stolford Farm)	.. .. Taunton Waterworks	ST(31)031327	1091	...	51.03	...	...
M	§Clatworthy (Sedgeborough Farm)	.. .. Taunton Waterworks	ST(31)052339	1079	...	45.50	...	...
	Castle Cary	.. .. W. Davis, Esq.*	ST(31)641320	290	...	31.15	...	...
D	Bagborough (Littlecourt)	.. .. Lt.-Gen. Sir Ed. Wetherall*	ST(31)177335	455	34.4	32.44	173	138
	Bridgwater (Northmoor P.S.)	(+A) Somerset River Board	ST(31)331330	23	...	26.09	...	...
D	Bridgwater (Durleigh)	.. .. R. A. Watson, Esq.	ST(31)274363	46	29.8	29.92	166	133
d	Bridgwater (Blake Gardens)	.. .. R. A. Watson, Esq.	ST(31)300368	27	28.5	27.11	...	125
	Bridgwater (Wembdon Hill)	.. .. Mrs. M. L. Colthurst*	ST(31)280378	110	...	26.57	...	...
D	Bridgwater (Blacklands Street)	.. .. N. S. Bailey, Esq.	ST(31)295373	18	...	28.27	168	129
D	Bridgwater (Wembdon)	.. .. E. L. Kelting, Esq., O.B.E.	ST(31)284377	47	...	27.94	174	125
D	Over Stowey (Plainsfield)	.. .. Lord St. Audries	ST(31)195366	400	...	31.42	169	130
	Crowcombe (Quantock Farm)	.. .. M. A. Bucknall, Esq.*	ST(31)159370	1000	...	34.79	...	...
D	Over Stowey (Quantock Sanatorium)	.. .. Medical Superintendent	ST(31)188375	430	35.0	37.31	176	139
D	Cannington (Ashford Waterworks)	.. .. R. A. Watson, Esq.	ST(31)237385	102	31.4	27.99	153	128

* Per Somerset River Board.

§ Turf wall round gauge.

DIVISION V—SOUTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
SOMERSET—(contd.)				ft.	in.	in.		
3.—PARRETT—(contd.)								
D	Over Stowey	H. L. Butt, Esq.	ST(31)178383	550	36.1	37.64	187	144
	Bawdrip (Bath Road)	W. N. Winslade, Esq.* ..	ST(31)325391	21	...	28.78	...	...
D	Nether Stowey (Oakford House) ..	Ian Vaile, Esq.	ST(31)188397	250	...	32.19	177	132
D	CANNINGTON (Somerset Farm Inst.) ..	Principal	ST(31)258400	95	...	26.11	164	129
	Pawlett (Gaunts Farm)	T. H. Berry, Esq.*	ST(31)287428	32	...	27.56	...	...
4.—NORTH COAST STREAMS. 158 sq. mi.								
d	Treborough (Sminhayes Farm) ..	Major R. A. Archer, for M.O.	ST(31)013350	1150	...	53.10	195	165
	Lype Hill	Major R. A. Archer, for M.O.	SS(21)954367	1320	...	56.67	...	...
	Timberscombe (Croydon Hill) ..	Major R. A. Archer, for M.O.	SS(21)984393	1175	...	46.36	...	...
D	Timberscombe (Great House) ..	Major R. A. Archer, for M.O.	SS(21)956420	260	...	36.50	184	138
D	Bicknoller (Weacombe House) ..	W. T. Greswell, Esq. ..	ST(31)109416	300	34.2	27.60	153	124
D	Sampford Brett	G. B. Synge, Esq.*	ST(31)089402	180	...	28.15	167	124
D	Dodington	W. Stone, Esq.	ST(31)173407	330	...	33.56	175	139
w	Holford	E. L. Kelting, Esq., O.B.E.	ST(31)156418	350	...	32.00	...	...
D	Kilve Court	Mrs. Cooke-Hurle	ST(31)148427	150	30.0	29.70	146	127
D	East Quantoxhead (The Rectory) ..	Mrs. F. L. Aldridge ..	ST(31)138433	130	...	30.21	162	131
D	Stogursey (Fairfield House) ..	Lord St. Audries	ST(31)186429	150	31.1	29.20	175	127
	Goosemoor (West Dunkery) ..	C. H. Archer, Esq., for M.O.	SS(21)880418	1581	...	75.42	...	...
§	Dunkery Beacon	C. H. Archer, Esq., for M.O.	SS(21)892416	1650	...	70.56	...	...
	Chains Barrow	C. H. Archer, Esq., for M.O.	SS(21)735420	1587	...	84.19	...	...
D	WOOTTON COURTENAY(Ford Cott.)(+A)	C. H. Archer, Esq., for M.O.	SS(21)929426	486	...	45.29	201	153
D	Carhampton (The Croft) ..	E. W. Darby, Esq.	ST(31)006425	100	...	33.40	206	142
w	Porlock (Nutscale Reservoir) ..	Eng'r & Surveyor, Minehead	SS(21)857428	1000	...	57.20	...	...
D	Dunster Castle Gardens	Mr. C. Heritage	SS(21)993434	100	...	30.67	180	132
D	Dunster (County School) ..	J. H. Powles, Esq.	SS(21)989437	160	32.2	30.46	180	129
d	Porlock (Hacketty Way) ..	H. K. Reeves, Esq.	SS(21)893467	200	...	39.07	...	...
D	Stolford (Whitewick Farm) ..	Mrs. M. R. Lang	ST(31)236453	10	...	27.29	160	123
D	Minehead (Blenheim Gardens) ..	(+A) Engineer & Surveyor ..	SS(21)971464	37	33.4	28.85	182	131
d	Porlock Weir	E. Percival, Esq.	SS(21)864489	60	...	43.55	...	...
5.—EXE. 122 sq. mi.								
D	East Anstey (Dassels)	Major F. R. Farquhar ..	SS(21)875266	850	...	52.87	204	170
D	Dulverton (The Cottage) ..	Miss B. K. Abbot	SS(21)915278	450	...	53.77	199	176
d	Dulverton (C.E. School) ..	G. H. C. Warner, Esq. ..	SS(21)915280	550	47.8	48.69	...	...
D	Winsford	Capt. R. S. Le Bas	SS(21)905345	620	...	55.13	196	166
	Kinsford Gate (Quarry)	C. H. Archer, Esq., for M.O.	SS(21)745365	1500	...	83.27	...	...
d	Exford (Lower Thorne) ..	Miss C. Reed	SS(21)843384	1000	...	66.14	204	176
D	Simonsbath (Honeymead) ..	Sir Bernard Waley-Cohen..	SS(21)796381	1250	...	66.21	209	178
D	Pinkworthy Farm	Major R. A. Archer	SS(21)722412	1305	...	74.53	210	187
6.—AXE. 42 sq. mi.								
D	Wayford Manor	H. L. P. Baker, Esq. ..	ST(31)405067	420	...	37.36	156	131
d	Cricket St. Thomas	Mr. G. A. Wakefield ..	ST(31)374088	444	39.3	42.66	...	...
D	Church Stanton (Otterhead) ..	Water Engineer, Taunton ..	ST(31)226138	819	...	42.44	209	151
7.—STOUR. 35 sq. mi.								
	Horsington (Throop Farm) ..	Brig. F. C. F. Cleeve ..	ST(31)687233	460	...	30.39	167	132

DIVISION VI—WEST MIDLAND COUNTIES

GLOUCESTERSHIRE. (Area, 1,237 sq. mi.)

1.—WYE. 50 sq. mi.

D Redbrook (Pumping Station) ..	H. Parks, Esq.	SO(32)542104	220	...	32.01	169	116
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* Per Somerset River Board.

§ Turf wall round gauge.

DIVISION VI—WEST MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
GLOUCESTERSHIRE—(contd.)				ft.	in.	in.		
2.—SEVERN. Right Bank Tributaries. 185 sq. mi.								
D	Forest of Dean (Blakeney Hill Lodge)	Forestry Commission ..	SO(32)661086	450	31.6	28.14	165	119
d	Forest of Dean (Parkend)	Forestry Commission ..	SO(32)607086	325	...	34.54	...	...
D	§Coleford (Cannop Colliery)	Manager	SO(32)559129	330	...	31.95	164	126
d	Forest of Dean (Edgehills Lodge)	Forestry Commission ..	SO(32)664159	915	...	34.97	...	...
D	Newent (Taynton)	M. Philips Price, Esq. ..	SO(32)743216	60	29.3	28.08	168	124
d	Bromsberrow Heath (Pumping Station)	Malvern U.D.C.	SO(32)738333	181	26.2	25.95	143	118
D	Tewkesbury (Forthampton Court) ..	Mr. F. R. Mayo	SO(32)870318	48	26.9	25.44	140	118
D	Tewkesbury (Upper Lode)	British Waterways	SO(32)881328	41	25.2	23.07	137	105
3 —SEVERN. Left Bank Tributaries. 369 sq. mi.								
d	Rudgeway (Lower Hazel)	T. T. Hodges, Esq. ..	ST(31)623872	200	...	29.29	...	...
D	Tytherington (Keven)	K. M. Brown, Esq. ..	ST(31)667886	240	...	33.51	184	132
D	Thornbury (Thornbury Park).. ..	Gardener	ST(31)634908	70	...	31.12	167	122
D	Alderley (Pumping Station)	W. Gloucester Water Co. ..	ST(31)774914	206	...	30.14	173	138
d	Wotton-under-Edge (Bournstream) ..	Lt.-Col. B. S. Browne ..	ST(31)750945	300	32.1	28.59	168	127
D	Upper Cam (Lansdown)	A. W. Hughes, Esq. ..	ST(31)764988	350	...	31.25	172	137
D	Berkeley (Sharpness Docks)	British Waterways ..	SO(32)673028	50	29.5	33.07	161	130
D	Minchinhampton (Derhams House) ..	Dame Isobel Cripps, G.B.E.	SO(32)869005	625	...	31.20	178	131
D	Minchinhampton (Rectory Cottage)	F/Lt. G. W. Fisher ..	SO(32)873008	610	33.9	31.28	180	127
D	Chalford (Waterworks)	Stroud District Water Board	SO(32)907025	220	...	30.89	149	121
D	Eastcombe	P. Blair, Esq. ..	SO(32)888040	470	...	31.82	183	136
D	Chalford (France Lynch)	Major V. A. H. Denne ..	SO(32)901044	640	...	33.06	182	145
D	Stroud (RUSCOMBE)	Capt. B. D. Parkin ..	SO(32)837077	610	...	29.56	179	127
D	Pitchcombe (Normanhurst)	Jos. B. Powell, Esq. ..	SO(32)855085	300	...	31.08	180	132
D	Miserden Park	Agent	SO(32)938087	800	...	36.55	168	132
D	Whitminster (The Junction)	British Waterways ..	SO(32)775085	32	...	28.59	161	126
d	Haresfield Court	G. B. Heywood, Esq. ..	SO(32)810090	100	30.2	(26.88)	...	...
d	Harescombe Grange	Mrs. Stamford Hutton ..	SO(32)844106	557	29.3	30.25	168	131
D	Witcombe Reservoir	J. H. Goodridge, Esq., C.E.	SO(32)903147	297	29.2	26.82	183	128
D	Dowdeswell Reservoir	Chelt. & Glos. Water Board	SO(32)984198	357	30.0	27.37	154	126
D	Cheltenham (Hewletts Reservoir)	Chelt. & Glos. Water Board	SO(32)974223	419	27.7	28.02	178	134
D	Cheltenham (Sandford Mead)	Chelt. & Glos. Water Board	SO(32)953216	210	26.3	25.58	173	131
D	CHELTENHAM (Montpellier Gdns.) (+ A)	Town Clerk	SO(32)946218	214	26.5	23.84	172	124
d	Cheltenham (Cemetery)	Superintendent	SO(32)972230	270	...	26.05	...	...
D	Tewkesbury (Pumping Station)	Chelt. & Glos. Water Board	SO(32)890337	47	23.9	23.04	165	113
4.—SEVERN. Upper Avon. 68 sq. mi.								
D	Blockley (The Manor House)	Major H. F. Cox	SP(42)165348	450	29.4	29.03	178	125
d	Winchcombe (Sudeley Castle)	Mrs. M. Dent-Brocklehurst	SP(42)031276	357	29.8	29.43	...	...
D	Chipping Campden (Leysbourne)	Miss C. Sparling	SP(42)152394	470	...	28.98	187	130
D	Campden (Research Station)	Director	SP(42)170396	389	...	27.65	171	125
5.—LOWER AVON & C. 208 sq. mi.								
D	Bitton (Willsbridge Nurseries)	G. E. A. Richards, Esq. ..	ST(31)667698	100	...	29.90	180	124
D	Bath (Monkswood Reservoir)	Bath Corporation W.W. ..	ST(31)755711	365	...	30.91	170	130
D	Hanham (Conham Sewage Works)	W. J. Lee, Esq.	ST(31)628720	50	...	30.39	171	127
D	Bristol (Hopewell Hill)	West Gloucester Water Co.	ST(31)643742	386	30.5	30.42	169	126
D	Clifton (Oakfield Road)	R. W. M. Melvin, Esq. ..	ST(31)577737	200	33.0	33.09	161	129
D	Horfield	(+ A) City Engineer, Bristol	ST(31)589763	248	...	32.12	157	125
M	Westbury-on-Trym (Coombe Dingle)	B. S. F. Hessey, Esq. ..	250	...	31.56	...	...	...
D	BRISTOL (FILTON)	(+ A) Meteorological Office ..	ST(31)598802	192	...	29.11	166	120
d	Henbury (The Ridgeway)	R. H. Gunn, Esq.	ST(31)573785	263	...	31.12	172	125
D	Frampton Cotterell (Pumping Station)	West Gloucester Water Co.	ST(31)670818	154	...	26.17	166	126
D	Badminton Gardens	Head Gardener	ST(31)801828	407	...	36.37	165	140
D	Shipton Moyne (Pumping Station)	West Gloucester Water Co.	ST(31)899887	312	...	32.29	184	136

§ Turf wall round gauge.

DIVISION VI—WEST MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957			
				National grid reference	Altitude		Rain-fall	Days with ·01 in. or more	Days with ·04 in. or more	
GLOUCESTERSHIRE—(contd.)					ft.	in.	in.			
6.—THAMES. Right Bank Tributaries. 17 sq. mi.										
7.—THAMES. Windrush & c. 340 sq. mi.										
D	Cirencester (Shorncliffe Sew. Wks.)	..	Cirencester U.D.C.	..	SU(41)034971	307	...	29·07	163	123
D	Fairford (Reeve, Kempford)	..	Major H. A. Northern	..	SU(41)160980	260	25·6	29·81	135	116
D	Lechlade (St. John's Lock)	..	Thames Conservancy	..	SU(41)222991	237	24·3	25·83	168	116
D	CIRENCESTER (Royal Agric. College)	..	Principal	..	SP(42)005013	443	31·9	32·40	166	137
D	Cirencester (Chesterton Grove)	..	N. Woods, Esq.	..	SP(42)022009	376	30·8	31·25	189	139
D	Cirencester (Baunton W.W.)	..	(+A) Cirencester U.D.C.	..	SP(42)019048	396	...	31·94	185	131
D	LITTLE RISSINGTON Airfield	..	(+A) Meteorological Office	..	SP(42)209191	740	29·4	29·94	174	132
HEREFORDSHIRE. (Area, 840 sq. mi.)										
1.—WYE. 685 sq. mi.										
D	Llangarron (Tre-Evan)	..	N. P. Bridgewater, Esq.	..	SO(32)522219	250	...	24·92	104	102
	Walford (Hill Court Gardens)	..	Mrs. G. R. Trafford	..	SO(32)579220	126	28·4	24·12	147	104
D	ROSS-ON-WYE	..	(+A) F. J. Parsons, Esq., for M.O.	..	SO(32)598233	223	28·2	22·53	151	106
D	Kentchurch Court	..	J. Lucas-Scudamore, Esq.	..	SO(32)423259	236	33·0	30·09	148	116
D	Perrystone Court	..	Lt.-Gen. Sir Sidney Clive	..	SO(32)624295	450	...	24·46	133	100
D	Much Dewchurch (The Mynde)	..	Capt. H. A. Clive*	..	SO(32)470298	420	...	28·63	158	112
D	Sollershope (Perryfield)	..	A. G. Fyshe, Esq.	..	SO(32)617326	320	...	24·72	159	111
D	Vowchurch (Ladywell House)	..	A. S. Wood, Esq.	..	SO(32)350362	400	34·9	31·36	164	116
D	Michaelchurch Escley (Llan Rosser)	..	J. M. Maddy, Esq.*	..	SO(32)287380	1125	40·6	40·29	183	133
d	Hereford (Belmont Abbey)	..	The Abbot	..	SO(32)382482	260	...	21·72	125	91
D	Hereford (Sewage Works)	..	F. Margerison, Esq., C.E.	..	SO(32)521388	167	...	23·41	131	102
D	Tillington Fruit Farm	..	Co-op. Wholesale Soc. Ltd.	..	SO(32)467447	270	...	25·32	155	108
d	Burghill Hospital	..	Medical Superintendent	..	SO(32)475437	300	26·3	26·08	...	...
D	PRESTON WYNNE	..	Farm Director	..	SO(32)565475	274	25·1	25·62	161	113
D	Wellington (Yew Tree House)	..	Mrs. H. F. Jackson	..	SO(32)500473	185	...	26·95	176	115
D	Weobley (Garnstone)	..	Mrs. A. M. Verdin	..	SO(32)400500	442	...	27·11	147	108
D	Sarnesfield Grange	..	R. A. Marshall Esq.	..	SO(32)372508	378	...	28·25	149	118
d	Hope under Dinmore	..	Cadbury Bros. Ltd.*	..	SO(32)513538	246	27·4	25·87	...	...
D	Pembridge (Moor Court)	..	Mrs. L. Benn	..	SO(32)359561	400	...	31·54	163	123
D	Bromyard (The Down House)	..	Capt. L. R. Hibbert	..	SO(32)670545	485	28·1	26·28	160	125
d	Stoke Prior	..	J. H. Armstrong, Esq.	..	SO(32)530561	375	...	24·86	...	...
D	Lyonshall (The Croft)	..	Major R. J. Jones	..	SO(32)335558	474	...	33·30	176	130
D	LYONSHALL (The Whittern)	..	R. H. Green, Esq.	..	SO(32)339576	510	...	35·20	175	134
D	Monkland Cottage	..	Capt. N. J. Bengough	..	300	...	...	26·46	183	110
D	Kimbolton (Grantsfield)	..	Miss D. W. Hutchinson	..	SO(32)526602	424	28·4	25·28	142	108
D	Presteigne (Middlemoor)	..	Mrs. A. M. Wilson	..	480	34·0	...	35·44	173	121
2.—SEVERN. Right Bank Tributaries. 155 sq. mi.										
D	Newent (Kilcot)	..	Forestry Commission	..	SO(32)681255	170	...	27·32	161	134
D	Much Marcle (Hall Court)	..	Mrs. J. J. S. Powell	..	SO(32)644353	200	...	24·69	155	116
D	Ledbury (The Sladd)	..	Major R. E. Combe, M.C.	..	SO(32)645384	400	...	26·59	143	118
D	Downton Castle (Estate Office)	..	Major W. M. P. Kincaid Lennox	..	SO(32)444747	456	...	33·70	169	121
SHROPSHIRE. (Area, 1,343 sq. mi.)										
1.—MERSEY. Weaver. 27 sq. mi.										
D	Adderley (Raven House)	..	Mrs. Edmond Browne	..	ST(33)661401	250	...	29·76	182	136

* Per Wye River Board.

DIVISION VI—WEST MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
SHROPSHIRE—(contd.)				ft.	in.	in.		
2.—DEE. 30 sq. mi.								
D	Whitchurch (Fenns Bank)	.. .. Engineer & Surveyor ..	SJ(33)512392	271	27.1	32.15	179	135
3.—SEVERN. Right Bank Tributaries. 722 sq. mi.								
D	Bucknell Vicarage	.. .. Rev. W. A. Woodhouse ..	SO(32)355735	480	...	34.75	153	117
d	Ludlow (Castle Weir)	.. .. C. T. Marston, Esq. ..	SO(32)507706	270	...	32.04	155	122
D	Bromfield (Oakly Park)	.. .. Head Gardener ..	SO(32)491762	300	29.7	33.00	176	122
M	Cleobury Mortimer (Chilton)	.. .. Col. F. M. Tomkinson ..	SO(32)673781	410	...	34.18	...	...
D	Anchor (Kerry Forest)	.. .. Forestry Commission ..	SO(32)172857	1150	...	51.04	211	162
D	Burwarton (Dingle Leys)	.. .. R. B. C. Edwards, Esq. ..	SO(32)624850	730	...	33.38	172	131
D	Craven Arms (Westhope Cottage)	.. .. Lady Dyer ..	SO(32)475863	610	...	32.58	177	131
d	Lydbury North (Totterton)	.. .. Major W. H. B. Whitaker ..		700	30.8	34.56	...	...
D	Bishops Castle (The Mount)	.. .. F. Lavender, Esq. ..	SO(32)324892	735	...	30.96	196	134
D	Acton Scott (Wood Acton)	.. .. Mrs. R. C. Acton ..	SO(32)453892	602	...	36.04	199	156
D	Church Stretton (Sewage Works)	.. .. Surveyor, U.D.C. ..	SO(32)438909	582	33.0	37.05	194	143
D	Bridgnorth (Silverdale)	.. .. H. E. Trevor, Esq. ..	SO(32)709932	245	...	25.09	169	116
D	Bridgnorth (Morville Hall)	.. .. Mrs. Bythell ..	SO(32)668940	300	...	26.77	178	125
D	Church Stretton (Woolstaston)	.. .. Mrs. E. E. Parry ..		745	31.9	35.22	187	133
d	Cressage (Harnage Grange)	.. .. M. D. Mackenzie, Esq. ..	SJ(33)569021	384	...	25.01	...	106
D	Meole Brace Hall	.. .. J. B. Hoare, Esq. ..	SJ(33)485104	250	...	24.49	153	121
d	Shrewsbury (Ford)	.. .. Atcham R.D.C. ..	SJ(33)420129	253	...	26.44	...	116
D	SHREWSBURY (Monkmoor)	.. .. Medical Officer of Health ..	SJ(33)514138	184	24.7	25.85	181	121
4.—SEVERN. Left Bank Tributaries. 564 sq. mi.								
D	Bridgnorth (Stanmore Hall)	.. .. The Hon. E. S. Hamilton-Russell ..	SO(32)742922	297	25.8	25.52	179	125
D	Hilton (Pumping Station)	.. .. B. L. McMillan, Esq., C.E. ..	SO(32)776960	168	...	24.82	163	124
D	Ackleton (The Folley)	.. .. H. J. Bath, Esq. ..	SO(32)771978	230	26.0	26.32	168	139
D	Shifnal (Hatton Grange)	.. .. Head Gardener ..	SJ(33)765043	262	26.1	26.45	172	139
D	Shifnal (Cosford Waterworks)	.. .. B. L. McMillan, Esq., C.E. ..	SJ(33)781046	222	25.6	24.37	170	130
D	Wellington W.W. (Wrekin Res.)	.. .. Surveyor ..	SJ(33)637096	478	25.7	27.87	182	126
D	Wellington (Wrekin College)	.. .. E. C. Gower, Esq. ..	SJ(33)655117	340	...	27.70	163	123
D	Wellington (Allscott)	.. .. British Sugar Corpn., Ltd. ..	SJ(33)605128	200	...	24.09	...	...
D	NEWPORT (Harper Adams Ag. Coll.)	Principal ..	SJ(33)713202	211	24.8	27.60	172	131
D	SHAWBURY Airfield	.. .. (+A) Meteorological Office ..	SJ(33)553220	235	...	25.60	167	127
d	Newport (Chetwynd Park)	.. .. J. G. B. Borough, Esq. ..	SJ(33)733215	230	28.3	29.52	170	138
d	Wem (Modern School)	.. .. Headmaster ..	SJ(33)515292	260	...	32.07	...	...
d	Oswestry (Llanyblodwel)	.. .. Mrs. R. Dugdale ..	SJ(33)232236	300	...	33.14	141	133
D	OSWESTRY (Filter Beds)	.. .. Liverpool Corporation W.W. ..	SJ(33)278296	570	...	36.69	178	142
D	Oswestry (Llanforda Reservoir)	.. .. Liverpool Corporation W.W. ..	SJ(33)272297	702	...	37.89	169	138
D	Oswestry (Mount Reservoir)	.. .. Borough Surveyor ..	SJ(33)275304	698	34.5	37.79	178	144
D	Oswestry (Llwyn Terrace)	.. .. (+A) Borough Surveyor ..	SJ(33)294301	430	...	36.98	179	141
D	Ellesmere (Sheraton House)	.. .. Late Capt. C. Adam ..	SJ(33)403345	300	...	33.28	180	138
STAFFORDSHIRE. (Area, 1,166 sq. mi.)								
1.—MERSEY. Weaver. 50 sq. mi.								
D	Madeley Vicarage	.. .. Rev. W. Garner* ..	SJ(33)774442	350	30.7	34.74	187	151
D	Biddulph Grange	.. .. Secretary ..	SJ(33)894591	560	33.8	38.85	173	153
2.—SEVERN. Left Bank Tributaries. 160 sq. mi.								
D	Kinver	.. .. R. A. Robertson, Esq., C.E. ..	SO(32)848835	152	25.0	24.91	161	128
d	Lye (Pumping Station)	.. .. Messrs. Bateman, Gard & Whimster ..	SO(32)918851	245	...	28.96	...	139

* Per Cheshire River Board.

|| Gauge over-sheltered.

DIVISION VI—WEST MIDLAND COUNTIES—(contd.)

STATIONS		A UTHORITIES		Rain-gauge site		Average Rain- fall	1957		
				National grid reference	Altitude		Rain- fall	Days with ·01 in. or more	Days with ·04 in. or more
STAFFORDSHIRE—(contd.)					ft.	in.	in.		
2.—SEVERN. Left Bank Tributaries.—(contd.)									
D	Kinver (Prestwood)	.. ..	R. A. Robertson, Esq., C.E.	SO(32)859858	179	...	23·48	166	133
D	Kingswinford (Ashwood Pumping Stn.)	.. ..	R. A. Robertson, Esq., C.E.	SO(32)866878	207	24·9	25·30	167	134
D	Wolverhampton (Dimmingsdale W.W.)	.. ..	B. L. McMillan, Esq., C.E.	SO(32)860962	323	...	24·39	161	126
d	Wolverhampton (West Park)	.. ..	Medical Officer of Health	SO(32)906990	430	27·1	25·64	...	...
D	Tettenhall (Waterworks)	.. ..	B. L. McMillan, Esq., C.E.	SJ(33)885001	468	27·2	25·69	172	135
D	Shifnal (Weston Park)	.. ..	The Earl of Bradford	SJ(33)806108	400	27·3	24·74	184	136
d	Norbury Junction	.. ..	British Waterways	SJ(33)793228	331	28·0	25·44	...	...
D	MARKET DRAYTON (Loggerheads)	.. ..	Cheshire Joint Sanatorium	SJ(33)675342	581	...	34·90	160	148
D	Maer Hall Gardens	.. ..	Mr. A. E. Berisford	SJ(33)794382	410	32·5	38·58	165	154
3.—TRENT. Right Bank Tributaries. 513 sq. mi.									
D	Tividale (Sewage Disposal Works)	.. ..	Messrs. Bateman, Gard & Whimster	SO(32)973910	432	28·1	27·32	178	135
D	West Bromwich (Dartmouth Park)(+A)	.. ..	Borough Surveyor	SP(42)011915	543	26·2	25·68	156	124
D	Tipton (Toll End Sewage Works)	.. ..	Manager	SO(32)978931	400	27·4	26·57	173	134
d	Wednesbury (Ocker Hill)	.. ..	British Waterways	SO(32)972938	476	26·6	24·68	...	116
D	Walsall (Bescot Sewage Farm)	.. ..	M. E. Habershon, Esq.	SP(42)007966	387	26·9	25·82	169	131
D	Darlaston (Sewage Works)	.. ..	S. E. Hammonds, Esq.	SO(32)985978	393	...	26·00	167	132
D	Bilston (The Lunt Outfall)	.. ..	Works Manager	SO(32)963958	410	27·3	27·13	169	133
D	WALSALL (Dartmouth Avenue)	.. ..	J. C. W. Day, Esq.	SK(43)012005	455	...	27·97	182	138
D	Aldridge (Bourne Vale)	.. ..	R. A. Robertson, Esq., C.E.	SP(42)074997	419	25·1	26·08	173	136
D	Codsall (Suckling Green Lane)	.. ..	P. W. Iliff, Esq.	SJ(33)870028	410	...	25·64	180	130
D	OAKEN (Manor House)	.. ..	A. J. Parkes, Esq., M.C.	SJ(33)857031	409	...	24·83	163	134
D	Shenstone (Little Hay)	.. ..	R. A. Robertson, Esq., C.E.	SK(43)123030	298	...	27·18	178	131
D	Bloxwich (Sneyd Reservoir)	.. ..	British Waterways	SJ(33)982025	507	25·5	26·41	168	135
D	Pelsall (Goscote Sewage Works)	.. ..	M. E. Habershon, Esq.	SK(43)015025	435	...	25·99	155	110
D	Tamworth (Sewage Pumping Station)	.. ..	K. Price, Esq.	SK(43)200041	182	...	22·90	185	115
D	Brownhills (Sandhills)	.. ..	R. A. Robertson, Esq., C.E.	SK(43)067048	407	...	25·91	172	132
D	Brownhills	.. ..	Engineer & Surveyor	SK(43)038058	492	26·8	25·73	170	133
D	Cannock (Great Wyrley)	.. ..	R. Sambrook, Esq.	SJ(33)991076	420	...	27·04	187	134
D	Hammerwich (Cannock Reservoir)	.. ..	British Waterways	SK(43)040074	475	25·3	25·62	160	127
D	Whittington (Old Hall)	.. ..	Mr. E. J. L. Lockyer	SK(43)162083	221	...	24·09	151	116
D	Cannock (Longford Road S.W.)	.. ..	Cannock U.D.C.	SJ(33)975090	405	...	25·39	153	124
D	PENKRIDGE (Farm Institute)	.. ..	Principal	SJ(33)922115	330	...	26·49	172	132
D	Hednesford (Gentleshaw)	.. ..	R. A. Robertson, Esq., C.E.	SK(43)049123	744	...	29·65	179	144
d	Brewood (Belvide Reservoir)	.. ..	British Waterways	SJ(33)861105	367	...	26·31	...	...
D	Elford	.. ..	Trent River Board	SK(43)189103	183	...	23·48	152	114
D	Hednesford (Pye Green)	.. ..	R. A. Robertson, Esq., C.E.	SJ(33)989143	768	...	28·21	173	134
D	Lichfield (Hanch Reservoir)	.. (+A)	R. A. Robertson, Esq., C.E.	SK(43)103137	259	26·9	27·12	181	128
D	Alrewas	.. ..	J. R. McKnight, Esq.	SK(43)168148	200	...	24·13	157	118
D	Lichfield (Sandfields)	.. ..	R. A. Robertson, Esq., C.E.	SK(43)110083	303	...	26·41	165	122
D	Rugeley (Slitting Mill)	.. ..	R. A. Robertson, Esq., C.E.	SK(43)033173	299	...	27·45	166	129
D	Rugeley (Brindley Bank)	.. ..	R. A. Robertson, Esq., C.E.	SK(43)037195	254	26·6	27·84	165	124
D	Milford (Waterworks)	.. ..	G. J. Plant, Esq.	SJ(33)975212	246	27·5	29·24	176	133
D	Stafford (Riverway Nurseries)	.. (+A)	G. J. Plant, Esq.	SJ(33)927229	247	27·2	27·64	171	131
D	Yarlet Hall	.. ..	K. E. Tarling, Esq.	SJ(33)913293	405	...	29·74	171	138
D	STONE (Cold Norton Farm)	.. ..	Animal Breeding Res. Org.	SJ(33)878321	350	...	29·70	181	137
D	Standon (Hatton Waterworks)	.. ..	G. V. Brown, Esq., C.E.	SJ(33)829370	355	29·0	34·60	173	143
d	Whitmore (Pumping Station)	.. ..	British Railways	SJ(33)779400	392	...	35·90	...	...
D	KEELE (Univ. Coll. of North Staffs)(+A)	.. ..	Prof. S. H. Beaver, M.A.	SJ(33)820446	587	...	34·55	186	147
D	Hanley (Etruria)	.. ..	Shelton Iron, Steel & Coal Co., Ltd.	SJ(33)875470	423	...	36·62	178	155

|| Gauge over-sheltered.

DIVISION VI—WEST MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
STAFFORDSHIRE—(contd.)				ft.	in.	in.		
4.—TRENT. Left Bank Tributaries. 193 sq. mi.								
W	Hamstall Ridware (No. 1)	R. A. Robertson, Esq., C.E.	SK(43)109191	214	24.3	24.20	...	...
W	Hamstall Ridware (No. 2)	R. A. Robertson, Esq., C.E.	SK(43)103193	240	25.4	26.49	...	...
D	Burton Reservoir	R. A. Robertson, Esq., C.E.	SK(43)264229	309	25.1	24.33	166	117
D	Burton (Shobnall)	Bass, Ratcliff & Bretton, Ltd.	SK(43)234231	157	24.6	24.83	168	112
D	Burton-on-Trent (Outwoods)	R. A. Robertson, Esq., C.E.	SK(43)227240	310	26.1	25.09	167	119
D	Burton (Outwoods Hospital)	Medical Officer of Health ..	SK(43)232248	220	25.9	25.06	196	120
D	Blithfield Reservoir (+ A)	R. A. Robertson, Esq., C.E.	SK(43)071226	273	...	28.23	165	127
W	Abbots Bromley (Port Fields)	R. A. Robertson, Esq., C.E.	SK(43)067237	316	27.5	27.84	...	...
M	Newton (Booth)	R. A. Robertson, Esq., C.E.	SK(43)042272	360	27.8	29.19	...	...
M	Kingston	R. A. Robertson, Esq., C.E.	SK(43)063295	420	...	28.19	...	...
M	Gratwich (Caverswall Farm)	R. A. Robertson, Esq., C.E.	SK(43)040315	381	29.8	30.66	...	...
M	Gratwich (Fradswell)	R. A. Robertson, Esq., C.E.	SK(43)007334	450	...	31.26	...	...
M	Leigh (Middleton Green)	R. A. Robertson, Esq., C.E.	SJ(33)995354	597	31.8	33.25	...	...
M	Leigh (Lane Farm)	R. A. Robertson, Esq., C.E.	SK(43)014371	500	30.9	31.93	...	...
M	Fulford Manor	R. A. Robertson, Esq., C.E.	SJ(33)950386	710	31.0	33.29	...	...
D	Draycott (Cresswell Pumping Station)	C. V. Brown, Esq., C.E. ..	SJ(33)974394	538	...	35.51	196	148
D	Longton (The Meir)	C. V. Brown, Esq., C.E. ..	SJ(33)941418	617	...	35.15	198	153
M	Caverswall (Hardwick Farm)	R. A. Robertson, Esq., C.E.	SJ(33)956442	810	32.1	33.51	...	...
M	Longton (Hulme)	R. A. Robertson, Esq., C.E.	SJ(33)934454	710	32.3	35.74	...	...
D	Hanley (Sewage Works)	W. H. Makepeace, Esq. ..	SJ(33)886461	386	...	33.67	181	149
D	Werrington (Wallmires Pumping Stn.)	Cheadle R.D.C.	SJ(33)950463	761	34.6	36.74	217	156
5.—TRENT. Dove. 250 sq. mi.								
D	Uttoxeter	C. H. Elkes & Sons, Ltd. ..	SK(43)089340	295	29.7	33.20	184	136
D	Ellastone (Vicarage)	Rev. W. F. Need	SK(43)117434	410	...	36.17	191	147
M	Dilhorne (Richmoor Hill)	R. A. Robertson, Esq., C.E.	SJ(33)968470	919	34.1	36.83	...	...
D	Leek (Wall Grange Pumping Stn.)	C. V. Brown, Esq., C.E. ..	SJ(33)966536	456	34.7	36.94	200	152
d	Leek (Westwood Park Avenue)	S. K. Peacock, Esq.	SJ(33)978564	550	...	39.20	...	...
d	Leek (Moorhill)	Lt.-Col. G. J. Worthington	SJ(33)998571	780	37.2	41.40	214	163
M	Leek (Poolend Pumping Stn.)	J. A. Gilchrist, Esq.	SJ(33)965582	530	...	36.13	...	...
D	ONECOTE (New Mixon Hay)	J. A. Johnson, Esq.	SK(43)035576	1350	...	45.42	189	161
D	Leek (Tittesworth)	C. V. Brown, Esq., C.E. ..	SJ(33)990589	657	38.1	41.37	200	158
D	Leek (The Hollies)	C. V. Brown, Esq., C.E. ..	SK(43)005602	694	...	44.33	207	161
M	Leek (Stonycliff)	C. V. Brown, Esq., C.E. ..	SK(43)019601	964	...	44.81	...	...
M	Leek (Mermaid Inn)	C. V. Brown, Esq., C.E. ..	SK(43)038605	1471	...	50.05	...	...
M	Leek (Alder Lee)	C. V. Brown, Esq., C.E. ..	SJ(33)989606	685	...	42.50	...	...
M	Leek (Lower Haddon)	C. V. Brown, Esq., C.E. ..	SJ(33)976606	875	...	43.46	...	...
M	Leek (Withens, Upper Hulme)	J. A. Gilchrist, Esq.	SK(43)011620	1084	39.0	41.03	...	...
M	Leek (Middle Hills)	C. V. Brown, Esq., C.E. ..	SK(43)030639	1480	...	51.50	...	...
WORCESTERSHIRE. (Area, 732 sq. mi.)								
1.—SEVERN. Right Bank Tributaries. 222 sq. mi.								
D	MALVERN (Surveyor's Depot)	Malvern U.D.C.	SO(32)779460	203	27.6	29.01	169	113
D	Malvern (Lansdowne Crescent)	Col. V. N. Johnson	SO(32)766463	276	...	30.34	151	125
D	Worcester (Diglis Lock)	British Waterways	SO(32)847533	48	24.7	24.46	135	110
d	Shelsley Beauchamp	W. Lionel Moore, Esq. ..	...	132	...	28.60	...	...
D	Ombersley (Holt Lock)	British Waterways	SO(32)821634	55	25.3	26.09	158	120
D	Tenbury (Belle Vue)	Miss M. M. Lowe	SO(32)592666	315	26.3	26.82	169	129
D	Bewdley (Ribbesford)	Camp Superintendent	SO(32)768737	516	...	28.69	166	123
2.—SEVERN. Left Bank Tributaries. 200 sq. mi.								
D	WORCESTER (REDHILL)	Worcester A.E.C.	SO(32)873536	190	24.2	25.26	142	111
D	Worcester (Waterworks)	City Engineer	SO(32)841565	57	23.2	26.09	145	113

§ Turf wall round gauge.

DIVISION VI—WEST MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
WORCESTERSHIRE—(contd.)				ft.	in.	in.		
2.—SEVERN—(contd.)								
d	Worcester (Samuel Southall School) ..	Headmaster ..	SO(32)853356	147	...	26.03	...	108
D	Worcester (Bevere Lock) ..	British Waterways ..	SO(32)837594	51	24.5	25.31	145	126
D	Bromsgrove (Tardebigge Reservoir) ..	British Waterways ..	SO(32)989690	455	27.5	26.74	158	116
D	Bromsgrove (Sewage Disposal Works)	Bromsgrove U.D.C. ..	SO(32)956685	220	...	25.97	164	122
D	Bromsgrove (Burcot Pumping Stn.) ..	F. H. Bullock, Esq. ..	SO(32)984716	432	...	26.33	167	131
D	Barnt Green (Linthurst Road) ..	Miss M. Gibbins ..	SO(32)996732	650	29.4	28.24	175	135
D	Stourport (Lincombe Lock) ..	British Waterways ..	SO(32)822694	62	25.6	26.33	143	124
D	Bromsgrove (Washing Stocks P. S.) ..	F. H. Bullock, Esq. ..	SO(32)959732	366	...	25.70	169	132
d	Bewdley ..	P. H. Pritchard, Esq. ..	SO(32)792752	70	26.4	26.56	...	112
D	Kidderminster (St. John's Avenue) ..	H. Hodgkinson, Esq. ..	SO(32)817764	250	...	24.67	152	115
D	Kidderminster (Park Hall) ..	K. H. Wilson, Esq. ..	SO(32)864778	200	25.7	26.25	180	130
d	Kidderminster (Wolverley Road) ..	R. D. M. Evers, Esq. ..	SO(32)843786	245	...	24.19	186	118
D	Bewdley (Elan Aqueduct) ..	C. A. Risbridger, Esq., C.E. ..	SO(32)776784	91	26.7	28.47	173	134
D	Clent Hall ..	Miss H. M. Wilson ..		600	...	29.89	181	131
D	Wolverley (Hill House) ..	J. C. Wilson, Esq. ..	SO(32)821798	250	...	26.72	149	129
D	Halesowen (Romsley) ..	R. A. Robertson, Esq., C.E. ..	SO(32)964805	616	30.6	30.64	173	136
D	HALESOWEN (Hayley Green) ..	C. Roberts, Esq. ..	SO(32)950823	505	28.9	28.43	181	131
D	Halesowen (Furnace Hill) ..	J. S. Hall, Esq. ..	SO(32)963841	450	...	29.16	174	132
D	Pedmore (Beckman Road) ..	Miss M. M. Sheward ..	SO(32)912816	415	27.3	28.60	179	135
D	Wollaston (Wood Street) ..	H. Little, Esq. ..	SO(32)890850	275	...	26.34	167	122
D	Wollaston (Coalbourn Brook P.S.) ..	J.S.Brown, Esq., M.I. Mun.E. ..	SO(32)894855	225	...	25.79	165	126
3.—SEVERN. Upper Avon. 251 sq. mi.								
D	Overbury Court Gardens ...	T. Holland-Martin, Esq. ..	SO(32)956373	212	...	24.59	163	124
D	Bredon (Bredon House) ..	Col. M. F. Grant ..	SO(32)923368	120	24.5	25.05	169	127
d	Broadway (Farncombe) ..	Martin Pemberton, Esq. ..		750	27.5	26.39	...	...
D	Evesham (Bengeworth) ..	Ross Bros., Ltd. ..	SP(42)048442	128	22.9	22.01	155	106
D	Evesham (Bretforton Manor) ..	H. Ashwin, Esq., ..	SP(42)092440	130	24.5	24.17	174	127
d	Evesham (Abbey Road P. S.) ..	Borough Surveyor ..	SP(42)033433	85	22.6	21.85	...	...
D	Evesham (High Street) ..	N. A. Field, Esq. ..	SP(42)040445	120	23.1	22.99	164	111
d	Evesham (Port Street) ..	W. J. Craven & Co. Ltd. ..	SP(42)044435	72	23.2	22.89	...	...
D	Pershore (Inst. of Horticulture)	Principal ..	SO(32)960450	130	...	24.87	153	116
	Alcester (Cookhill) ..	T. Barber, Esq. ..	SP(42)053589	400	24.5	25.53	158	...
D	Redditch (Hewell Gardens) ..	Mr. F. Molyneux ..		469	27.7	25.90	152	119
D	Bromsgrove (Brockhill Pumping Stn.)	F. H. Bullock, Esq. ..	SP(42)001701	439	...	27.69	165	129
D	Bromsgrove (Lower Bittall Reservoir)	British Waterways ..	SP(42)021743	457	28.9	29.39	178	143
4.—THAMES. Windrush & c. 3 sq. mi.								
5.—TRENT. Right Bank Tributaries. 56 sq. mi.								
D	Oldbury (Barnford Hill Park)	Borough Surveyor ..	SO(32)997876	607	29.6	28.61	169	135
D	Oldbury (Langley) ..	R. Fisher, Esq. ..	SO(32)987871	525	...	29.37	186	142
D	Dudley (Tipton Road) ..	Borough Engineer ..	SO(32)950916	490	...	26.91	176	129
D	Dudley (Shavers End) ..	R. A. Robertson, Esq., C.E. ..	SO(32)933912	745	27.8	27.91	168	135
WARWICKSHIRE. (Area, 944 sq. mi.)								
1.—SEVERN. Upper Avon. 640 sq. mi.								
D	SHIPSTON-ON-STOUR (Compton Scorp.)	A. W. Beecham, Esq. ..	SP(42)213407	364	24.7	26.34	178	119
d	||Tredington ..	Mrs. N. H. Walton ..	SP(42)257437	300	...	21.99	...	...
D	LUDDINGTON ..	Farm Director ..	SP(42)154528	138	23.2	23.56	159	115
D	STRATFORD-ON-AVON (Drayton Manor)	Director ..	SP(42)164549	160	23.7	24.82	164	125
D	Stratford-on-Avon (Milcote) ..	P. C. Smart, Esq., C.E. ..	SP(42)184528	122	23.6	24.20	164	121
D	Stratford-on-Avon (Thurlaston) ..	Miss M. A. Everard ..	SP(42)207542	135	24.2	23.77	172	118

|| Gauge over-sheltered.

DIVISION VI—WEST MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with ≥ 0.1 in. or more	Days with ≥ 0.4 in. or more
WARWICKSHIRE—(contd.)				ft.	in.	in.		
1.—SEVERN. Upper Avon—(contd.)								
D	MORETON MORRELL	Institute of Agriculture ..	SP(42)306553	279	...	22.13	167	122
D	Bidford (Moor Hall)	Miss M. R. Cubberley ..	SP(42)088538	200	24.0	23.42	150	120
D	WELLESBOURNE	Director (Nat. Veg. Res. Stn.)	SP(42)271565	153	...	21.14	158	121
D	Alcester (Surveyor's Office) ..	Alcester R.D.C. ..		140	24.5	25.64	177	125
D	Alcester (Arrowside)	J. B. Shewell, Esq. ..	SP(42)091575	148	...	23.61	158	125
D	Ashorne (Victoria Cottage) ..	G. T. Osborn, Esq. ..	SP(42)306572	150	24.7	22.57	180	122
D	Stratford-on-Avon (Snitterfield) ..	P. C. Smart, Esq., C.E. ..	SP(42)207584	274	25.2	24.45	169	121
D	Alcester (The Pleck)	Miss C. E. Chapman ..	SP(42)078589	250	24.4	25.81	166	125
D	Southam (Banbury Road)	C. W. Arkell, Esq. ..	SP(42)416612	250	24.9	23.40	155	116
D	Studley (Watts Road)	P. J. Harris, Esq. ..	SP(42)074629	250	...	25.87	171	127
D	Studley College	Headmistress ..	SP(42)087641	256	25.1	25.13	165	115
D	Warwick (Mill Street)	Mr. H. F. Smale ..		197	25.3	21.76	163	119
D	Warwick (St. Nicholas Park) ..	Engineer and Surveyor ..	SP(42)287649	155	...	23.45	156	124
D	LEAMINGTON SPA (Pump Rm. Gdns.)	Medical Officer of Health ..	SP(42)316654	163	24.0	22.10	163	121
D	Warwick (Hatton)	British Waterways ..	SP(42)244669	400	26.7	26.55	154	126
D	Leamington Spa (Woodland Grange)	H. M. Blenkinsop, Esq. ..		200	25.3	24.43	162	129
D	Dunchurch Hall	C. L. D. Fawcus, Esq. ..	SP(42)484710	400	24.6	23.23	159	128
D	Kenilworth (U.D.C. Offices) ..	Surveyor ..	SP(42)289721	294	...	25.81	168	129
D	Stretton-on-Dunsmore (Manor House)	Sir L. Lister-Kaye, Bt. ..		280	26.1	25.50	139	116
D	Rugby (Bilton Grange)	Mr. L. W. Bass ..	SP(42)493744	400	25.0	24.62	169	129
D	RUGBY (Lawrence Sheriff School) ..	G. H. Thompson, Esq. ..	SP(42)507749	385	25.6	25.01	156	115
D	Rugby (Avon Waterworks)	Borough Engineer ..	SP(42)512763	282	24.2	23.08	160	120
D	Coventry (Whitley Pumping Station)	City Engineer, Coventry ..	SP(42)357767	238	...	25.02	168	130
D	Coventry (Stoke) (+ A)	E. H. Hodgkins, Esq. ..	SP(42)361783	267	24.8	24.78	...	119
D	COVENTRY (Memorial Park)	Medical Officer of Health ..	SP(42)337792	338	26.0	25.06	169	131
D	Coventry (Belvedere Road) (+ A)	H. G. Ellinger, Esq. ..	SP(42)324778	362	...	26.55	...	...
D	Coundon Reservoir	Water Engineer, Coventry ..	SP(42)319808	377	...	26.01	188	139
D	Nuneaton (Bedworth Waterworks) ..	Waterworks Manager ..	SP(42)355866	346	27.1	24.56	168	125
2.—THAMES. Windrush & c. 2 sq. mi.								
3.—THAMES. Cherwell. 15 sq. mi.								
4.—TRENT. Right Bank Tributaries. 287 sq. mi.								
D	Coventry (Balsall Common)	W. F. E. Seeley, Esq. ..	SP(42)235769	385	27.6	24.24	165	129
D	Hampton in Arden (Eastcote)	J. H. Aston, Esq. ..	SP(42)197791	500	...	27.43	...	...
D	Highters Heath Reservoir (+ A)	C. A. Risbridger, Esq., C.E.	SP(42)087793	517	...	27.80	169	130
D	Solihull (Station Road)	Engineer & Surveyor ..	SP(42)148796	424	...	27.82	153	121
D	Halesowen (Frankley)	C. A. Risbridger, Esq., C.E.	SP(42)008801	571	30.7	26.92	182	135
D	Northfield (Bartley Reservoir No. 1)	C. A. Risbridger, Esq., C.E.	SP(42)010812	600	30.6	31.29	185	142
D	Bartley (Bromwich Wood)	C. A. Risbridger, Esq., C.E.	SO(32)999810	611	30.4	30.34	184	144
D	ELMDON (Birmingham Airport) .. (+ A)	Meteorological Office ..	SP(42)170835	324	25.2	25.78	167	121
D	BIRMINGHAM (Edgbaston Observatory)	Birmingham & Midland Inst.	SP(42)046864	535	29.2	29.09	178	129
D	Birmingham (Rotten Park)	British Waterways ..	SP(42)045870	477	...	25.66	...	119
D	Birmingham (Stetchford)	Birmingham Drainage Board	SP(42)135886	302	...	26.51	174	137
D	Birmingham (Handsworth)	D. M. Evans, Esq., F.R.Met.S.	SP(42)042892	469	...	27.53	177	128
D	Birmingham (Saltley Sewage Works)	Birmingham Drainage Board	SP(42)105888	292	...	25.98	169	138
D	Birmingham (Handsworth Park) .. (+ A)	City Engineer & Surveyor	SP(42)048900	424	...	27.22	175	134
D	Handsworth (Wood Lane)	J. A. Gregory, Esq. ...	SP(42)061908	365	...	28.13	172	129
D	Handsworth (Howard Road)	R. Westwood, Esq. ..	SP(42)059909	368	...	26.36	157	123
D	Colleshill Works	Birmingham Drainage Board	SP(42)195913	238	...	22.43	162	124
D	Whitacre (Birmingham Waterworks)	C. A. Risbridger, Esq., C.E.	SP(42)227909	269	26.0	23.79	189	124
D	Birmingham (Erdington)	C. A. Risbridger, Esq., C.E.	SP(42)102917	442	...	26.60	209	133
D	B'gham (Erdington, Spring La.) .. (+ A)	City Engineer & Surveyor	SP(42)113911	386	...	26.94	173	132
D	Minworth Greaves	Birmingham Drainage Board	SP(42)165923	258	24.3	24.36	167	120

|| Gauge over-sheltered.

DIVISION VI—WEST MIDLAND COUNTIES—(contd.)

STATIONS	AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
		National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
WARWICKSHIRE—(contd.)			ft.	in.	in.		
4.—TRENT. Right Bank Tributaries—(contd.)							
D Birmingham (Great Barr)	P. B. Jukes, Esq.	SP(42)051941	460	...	25.80	176	132
D Nuneaton (Pumping Station)	G. Ashton, Esq., C.E.	SP(42)361923	269	...	26.33	182	131
D Perry Barr Reservoir	C. A. Risbridger, Esq., C.E. ..	SP(42)084953	515	...	26.67	181	131
D Nuneaton (Hartshill Sewage Works)..	G. Ashton, Esq., C.E.	SP(42)330951	288	...	25.13	166	122
d Hartshill (Maintenance Depot)	British Waterways	SP(42)325952	304	...	27.06	...	116
D Sutton Coldfield (The Park)	Borough Surveyor	SP(42)116964	370	26.4	27.23	172	131

DIVISION VII—NORTH MIDLAND COUNTIES

LEICESTERSHIRE. (Area, 824 sq. mi.)

1.—SEVERN. Upper Avon. 41 sq. mi.							
D South Kilworth (Stanford Reservoir)	Borough Engineer	SP(42)596804	367	26.5	25.22	192	131
D Welford Reservoir	British Waterways	SP(42)645811	425	25.1	26.50	201	132
d North Kilworth (Waterworks)	Market Harborough U.D.C. ..	SP(42)618842	490	...	29.71	...	118
d Lutterworth (Waterworks)	Surveyor	SP(42)548840	365	25.9	27.45	177	120
2.—WELLAND. 96 sq. mi.							
D Market Harborough (Nithsdale Ave.)	Mrs. Heggs	SP(42)735867	230	...	25.04	142	110
d Market Harborough (N'thampton Rd.)	Market Harborough U.D.C. ..	SP(42)735870	260	...	25.45	...	...
D Market Harborough (Coventry Road)	G. C. Wooldridge, Esq.	SP(42)727870	270	...	24.12	190	113
d Market Harborough (Grammar Sch.)	Headmaster	SP(42)729879	345	...	24.35	...	...
D Kibworth Harcourt	Major A. E. Briggs	SP(42)682945	408	...	27.09	172	127
D Caldecott (Eye Brook Reservoir)	Corby & District Water Co. ..	SP(42)855943	187	23.8	23.21	169	117
D CALDECOTT (Pumping Station) (+A)	Corby & District Water Co. ..	SP(42)864932	174	...	22.57	153	114
3.—WITHAM. 7 sq. mi.							
4.—TRENT. Right Bank Tributaries. 680 sq. mi.							
D Frolesworth	W. P. Widdowson, Esq.	SP(42)506903	370	25.3	26.24	206	127
D Hinckley (Bowling Green Road)	S. Webster, Esq.	SP(42)434941	400	26.2	25.20	167	124
D Hinckley (Woodland Road)	L. L. Muston, Esq.	SP(42)463944	400	...	24.43	175	120
D Wistow Hall Gardens	Lord Cottesloe, C.B.	SP(42)642957	309	23.6	27.18	151	127
D Countesthorpe (Wigston Sewage Fm.)	Surveyor	SP(42)597968	257	22.8	27.55	170	127
D Leicester (Stoughton Drive North) ..	M. Murray, Esq.	SK(43)609031	240	...	26.19	178	121
D ||Leicester (De Montfort Square) (+A)	City Engineer	SK(43)593037	250	...	24.65	166	116
d Leicester (Hinckley Road Nurseries) ..	E. A. Bonser, Esq.	SK(43)567041	212	...	25.62	...	...
D Leicester (Woodville Road)	E. A. Bonser, Esq.	SK(43)569043	200	...	25.48	189	124
D LEICESTER (TOWERS Hospital)	Management Committee	SK(43)623042	266	24.2	27.84	179	123
D Leicester (Giroes Cemetery)	City Engineer	SK(43)562064	294	...	26.05	165	125
D Osbaston Hall	Sir Thomas Cope, Bart.	SK(43)425045	390	...	25.48	177	133
D Lowesby Hall Gardens	Head Gardener	SK(43)723076	500	26.3	25.11	148	120
D Thornton Reservoir	Leicester Waterworks	SK(43)473072	370	26.2	25.75	172	135
D Cropston Reservoir	Leicester Waterworks	SK(43)549114	245	27.2	27.99	221	143
D Barkby Hall	Victor R. Pochin, Esq.	SK(43)637098	227	24.5	25.01	170	117
D Melton Mowbray (Somerby Grove) ..	R. J. Oliver, Esq.	SK(43)774105	601	...	29.30	196	147
D Ulverscroft (Chitterman House)	C. Booth, Esq.	SK(43)496118	666	...	29.80	215	140
d Netherseal (Chilcote)	R. A. Robertson, Esq., C.E. ..	SK(43)284103	240	...	26.49	...	117
D Swithland Reservoir	Leicester Waterworks	SK(43)556148	171	26.0	27.98	203	140
D Melton Mowbray (White Lodge)	H. K. Barker, Esq.	SK(43)756187	237	22.9	27.28	174	136
D Charnwood Forest (Blackbrook Res.) (+A)	Borough Surveyor	SK(43)457178	379	26.4	29.10	174	149
D Loughborough (Nanpantan Res.) (+A)	Borough Surveyor	SK(43)508171	269	26.1	27.25	183	131
D Loughborough (Fairmount Drive) ..	B. N. Wale, Esq., B.Sc.	SK(43)520186	210	...	23.97	185	120

|| Gauge over-sheltered.

DIVISION VII—NORTH MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
LEICESTERSHIRE—(contd.)				ft.	in.	in.		
4.—TRENT. Right Bank Tributaries—(contd.)								
d	Loughborough (Sewage Farm)	.. Borough Surveyor ..	SK(43)529209	135	23·1	29·65	...	136
	Scalford .. .. .	.. Melton Mowbray U.D.C. ..	SK(43)764241	343	...	29·68	...	...
d	Waltham-on-the-Wolds	.. V. E. Higgins, Esq. ..	SK(43)804252	570	...	26·91	185	130
RUTLAND. (Area, 152 sq. mi.)								
1.—WELLAND. 125 sq. mi.								
d	Uppingham (Seaton Mill)	.. Welland River Board ..	SP(42)908977	150	...	23·63	153	115
d	Ketton .. .. .	.. Mrs. K. Burroughes ..	SK(43)984044	106	...	25·58	188	121
d	Oakham School .. ..	.. R. G. Henton, Esq. ..	SK(43)858087	350	...	28·55	162	127
d	Oakham .. .. .	.. County Agric. Committee*	SK(43)863085	350	...	27·64	164	127
2.—WITHAM. 5 sq. mi.								
3.—TRENT. Right Bank Tributaries. 22 sq. mi.								
LINCOLNSHIRE. (Area, 2,645 sq. mi.)								
1.—NENE. 99 sq. mi.								
d	Sutton St. James (Clifton's Bridge)	.. S. Holland Drainage Board	TF(53)380189	8	...	22·38	138	123
d	Sutton Bridge .. .. .	.. S. Holland Drainage Board	TF(53)476200	21	...	24·80	166	134
d	Sutton Bridge (Wingland Grange)	.. A. H. Cooke, Esq. ..	TF(53)512221	12	...	21·95	...	...
d	Spalding (Weston St. Mary)	.. S. Holland Drainage Board	TF(53)275184	10	...	21·00	164	120
2.—WELLAND. 341 sq. mi.								
d	Stamford (St. George's Square)	.. Dr. E. C. Till	TF(53)030071	90	...	23·81	144	108
d	Market Deeping (Wilsthorpe)	.. L. H. Robjohn, Esq., M.B.E.	TF(53)081149	51	...	23·51	171	112
d	Deeping St. Nicholas .. ..	.. T. R. Pick, Ltd.	TF(53)212157	13	...	23·80	159	111
d	Spalding (Pode Hole) .. ..	.. S. Holland Drainage Board	TF(53)214220	12	23·5	23·95	...	127
d	Spalding (Grammar School)	.. Headmaster	TF(53)247222	13	...	21·30	165	106
d	Bourne (Guthram) .. ..	.. L. I. Clark, Esq., C.E. ..	TF(53)171225	15	...	23·31	166	115
d	Whaplode (Irby Hall Farm)	.. T. R. Pick Ltd.	TF(53)324224	11	...	21·28	...	115
d	Holbeach (Manor Farm)	.. F. H. Bowser, Esq. ..	TF(53)355242	10	...	22·90	167	128
d	Holbeach (Willow Tree Farm)	.. F. H. Bowser, Esq. ..	TF(53)392322	10	...	21·55	154	106
d	Corby (Irnham Hall)	.. Welland River Board ..	TF(53)024267	200	...	25·24	162	126
3.—WITHAM & C. 1,085 sq. mi.								
d	Denton .. .. .	.. Culverthorpe Dairy Farms	SK(43)861324	300	...	24·38	170	123
d	Billingborough .. ..	.. N. Hodgkinson, Esq. ..	TF(53)112342	50	...	24·51	...	113
d	Grantham (Saltersford Pump Stn.)	.. Manager	SK(43)905345	188	...	25·18	185	131
d	Kirton .. .. .	.. W. Dennis & Sons, Ltd. ..	TF(53)304381	12	22·4	24·16	177	120
d	Culverthorpe Hall .. ..	.. Lt.-Col. F. E. S. Bowlby, M.C.	TF(53)020404	116	...	24·55	153	117
d	Wyberton (Tytton Hall)	.. L. I. Clark, Esq., C.E. ..	TF(53)329417	10	...	25·90	176	129
d	Wyberton (Slippery Gowt Farm)	.. J. T. Cannon, Esq. ..	TF(53)338421	10	...	25·31	152	128
d	Boston (Black Sluice, Skirbeck)	.. F. H. Tomes, Esq. ..	TF(53)325429	11	22·8	25·03	183	130
d	Boston (Cooks Lock) .. ..	.. L. I. Clark, Esq., C.E. ..	TF(53)313432	11	...	24·45	180	120
d	Boston (Church Road Pump Stn.) (+A)	.. Borough Surveyor ..	TF(53)335435	8	...	24·69	174	130
d	BOSTON (Freiston Road)	.. N. H. Middlebrook, Esq. ..	TF(53)332442	16	...	25·13	185	127
d	Boston (Grand Sluice) ..	.. F. H. Tomes, Esq. ..	TF(53)323443	17	...	24·96	189	129
d	Boston (Cowbridge) .. ..	.. G. E. Buchner, Esq., C.E. ..	TF(53)328472	9	...	22·80	181	117
d	Old Leake (Levertton) .. ..	.. G. E. Buchner, Esq., C.E. ..	TF(53)422485	10	...	23·40	155	115
d	CRANWELL Airfield (+A)	.. Meteorological Office ..	TF(53)003494	203	23·2	21·13	172	116
d	Carrington (Hakerley Bridge Farm)	.. T. R. Pick, Ltd. ..	TF(53)321529	12	...	24·17	185	133

* Per Welland River Board.

DIVISION VII—NORTH MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with ·01 in. or more	Days with ·04 in. or more
LINCOLNSHIRE—(contd.)				ft.	in.	in.		
3.—WITHAM & C.—(contd.)								
d	Ruskington	B. E. Brighton, Esq. ..	TF(53)084506	30	...	20·69	...	...
d	Sibsey (Main Road)	T. H. Allewell, Esq. ..	TF(53)352515	20	...	24·30	186	119
d	New Leake (Lade Bank Engine)	G. E. Buchner, Esq., C.E. ..	TF(53)379545	13	...	23·30	185	124
D	Carrington Grange	J. Ward, Esq. ..	TF(53)312547	15	...	26·22	176	143
D	East Kirkby Manor	Capt. R. S. Fieldsend ..	TF(53)335618	35	...	25·58	188	130
D	Revesby Reservoir	D. H. Ball, Esq. ..	TF(53)303634	124	24·5	25·27	179	131
D	Woodhall Spa (Waterworks) ..	Clerk to the Council ..	TF(53)222617	45	...	23·74	154	126
D	WADDINGTON Airfield	(+ A) Meteorological Office ..	SK(43)984650	224	...	21·91	173	121
D	Potterhanworth (Old Hall) ..	T. H. N. Battle, Esq. ..	TF(53)055663	50	...	25·70	189	137
D	Horncastle	F. J. Harvey, Esq. ..	TF(53)252695	120	...	23·58	182	130
D	HORNCASTLE (Edlington Hall) ..	R. J. Blakeborough, Esq. ..	TF(53)233714	205	...	24·42	193	131
D	Lincoln (Brant Road)	Messrs. Pennell & Sons, Ltd.	SK(43)966668	34	...	22·00	173	120
D	Lincoln (Boultham Pumping Station)	J. Barnatt, Esq., C.E. ..	SK(43)967694	18	...	22·07	157	122
D	Bardney (Sugar Factory)	British Sugar Corpn., Ltd. ..	TF(53)113688	17	...	22·78	170	119
D	Lincoln (Skellingthorpe Hall) ..	Mrs. Bergene-Coupland ..	SK(43)930715	40	23·1	23·35	174	128
D	LINCOLN (West Common)	(+ A) City Engineer & Surveyor ..	SK(43)962719	25	...	21·75	183	130
D	Lincoln (Burton Road)	G. W. Valley, Esq. ..	SK(43)971727	250	...	22·59	181	120
D	Lincoln (Reepham)	Miss A. M. Scorer ..	TF(53)041738	60	...	22·37	178	119
d	Lincoln (Saxilby)	J. Barnatt, Esq., C.E. ..	SK(43)897754	25	...	22·11	...	...
d	Dunholme (Field Station)	Dr. R. Hull ..	TF(53)004779	100	...	22·71	182	125
D	Hackthorn Hall	Lt.-Col. W. Cracroft-Amcotts	SK(43)991824	102	...	25·27	198	140
4.—GREAT EAU & C. 443 sq. mi.								
D	Eastville	G. E. Buchner, Esq., C.E. ..	TF(53)404603	3	...	21·21	140	100
w	Firsby	G. E. Buchner, Esq., C.E. ..	TF(53)457633	26	...	23·11	...	...
D	SKEGNESS (Marine Gardens) ..	Surveyor ..	TF(53)569631	15	23·3	24·96	167	126
D	Hagworthingham (Manor House) ..	G. W. Clark, Esq. ..	TF(53)347690	200	...	27·85	189	132
D	Spilsby (Fordington Waterworks) ..	D. H. Ball, Esq. ..	TF(53)416716	180	...	25·69	181	130
D	Chapel St. Leonards (Pumping Stn.) ..	Alford Drainage Board ..	TF(53)559729	10	...	24·14	165	132
D	Anderby (Pumping Station)	Alford Drainage Board ..	TF(53)545760	9	...	22·11	170	117
D	Withern (Pumping Station)	Alford Drainage Board ..	TF(53)434824	32	...	24·26	141	129
D	MANBY Airfield	(+ A) Meteorological Office ..	TF(53)391869	55	...	22·67	181	125
D	Wold Newton Manor	Parsons Wright, Esq. ..	TF(53)242970	230	...	26·77	185	143
D	Grainthorpe (County School) ..	Headmaster ..	TF(53)382963	9	...	23·34	181	129
d	North Cotes	Raymond Caudwell, Ltd.	TA(54)348004	10	...	24·70	150	116
5.—HUMBER. Right Bank Tributaries. 428 sq. mi.								
D	Claxby (Osgodby)	Lincolnshire River Board ..	TF(53)077926	70	...	23·89	188	128
d	Brigg (Scawby Hall)	Col. O. S. Nelthorpe, C.B.E.	SE(44)968056	40	...	23·79	163	110
D	Brigg (Sugar Factory)	British Sugar Corpn. Ltd. ..	SE(44)989061	134	...	24·26	179	119
D	Brigg (Wrawby Road)	A. R. Haynes, Esq. ..	TA(54)006074	22	24·8	22·65	170	119
D	Cleethorpes (Sidney Park)	Borough Engineer ..	TA(54)292096	11	...	20·54	182	119
D	Cleethorpes (Kings Parade)	Borough Engineer ..	TA(54)314079	23	24·0	22·33	165	115
D	Grimsby (Little Coates Pumping Stn.)	Engineer & Manager ..	TA(54)254085	14	...	24·12	180	124
D	Brocklesby Park	Head Gardener ..	TA(54)137114	50	...	22·70	180	123
D	Immingham (Compressor Station) ..	Grimsby R.D.C. ..	TA(54)209149	13	...	20·48	180	111
D	Normanby	Major E. C. R. Sheffield ..	SE(44)881166	185	...	26·94	185	112
D	Ferriby Sluice	K. Straw, Esq. ..	SE(44)976211	18	...	24·96	158	112
6.—TRENT. Right Bank Tributaries. 172 sq. mi.								
d	Woolsthorpe	British Waterways ..	SK(43)843353	182	...	22·71	...	...
D	Kirton in Lindsey	J. F. Drewery, Ltd. ..	SK(43)934990	82	...	23·77	151	114
D	Messingham (Sewage Works)	(+ A) Trent River Board ..	SE(44)875058	14	...	23·69	170	107
D	Torksey (Pumping Station)	R. Spencer, Esq., M. B. E. ..	SK(43)836780	16	...	22·95	177	114
D	Gate Burton Hall	Mr. G. Hancock ..	SK(43)838831	97	...	24·02	146	114

DIVISION VII—NORTH MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
LINCOLNSHIRE—(contd.)				ft.	in.	in.		
7.—TRENT. Left Bank Tributaries. 77 sq. mi.								
d	Wroot (S. Level Pumping Station) ..	Trent River Board	SE(44)732017	7	...	23.62	...	119
d	West Butterwick (Glen Howe) ..	West Butterwick Drain. Bd.	SE(44)835065	20	...	27.07	176	126
d	Crowle (N. Level Pumping Station) ..	Trent River Board	SE(44)749098	10	...	22.13	...	118
d	Keadby (Pumping Station) ..	Trent River Board	SE(44)835112	20	...	24.28	174	113
NOTTINGHAMSHIRE. (Area, 843 sq. mi.)								
1.—WITHAM. 10 sq. mi.								
2.—TRENT. Right Bank Tributaries. 218 sq. mi.								
d	SUTTON BONINGTON	Univ.ofNottingham,Sc.ofAg.	SK(43)503262	157	21.7	23.27	160	117
d	Kegworth (Kingston Hall)	Lord Belper	SK(43)508277	130	...	26.24	161	126
d	Nottingham (Wilford Hill Reservoir)	B. W. Davies, Esq., C.E. ..	SK(43)579351	295	23.1	24.19	...	...
d	Cotgrave Reservoir	B. W. Davies, Esq., C.E. ..	SK(43)667349	317	...	22.26	158	106
d	West Bridgford	Engineer & Surveyor ..	SK(43)592372	80	...	24.26	...	...
d	Newark (The Friary)	W. P. Shewell, Esq., C.E. ..	SK(43)802540	48	23.4	24.28	...	118
d	Newark (Sewage Works)	W. P. Shewell, Esq., C.E. ..	SK(43)802558	33	...	22.83	150	120
d	Kelham (Sugar Factory)	British Sugar Corpn. Ltd. ..	SK(43)780550	40	...	22.32	140	114
3.—TRENT. Derwent. 2 sq. mi.								
4.—TRENT. Erewash. 42 sq. mi.								
d	Nottingham (Strelley)	Miss Edge	SK(43)508418	396	26.2	27.67	190	129
d	Nottingham (STRELLEY Hall)	Miss Edge	SK(43)507421	378	...	27.65	188	127
d	Eastwood (Waterworks)	B. W. Davies, Esq., C.E. ..	SK(43)460468	243	25.9	30.92	185	142
d	Eastwood (Moorgreen Reservoir)	British Waterways	SK(43)468474	301	27.4	31.25	...	125
5.—TRENT. Left Bank Tributaries. 569 sq. mi.								
d	Beeston (Standards Laboratory) ..	Boots Pure Drug Co. ..	SK(43)542364	85	...	25.77	...	...
d	Beeston (Sewage Farm)	G. C. Hardy, Esq.	SK(43)541364	97	24.5	25.39	152	113
d	Beeston (Bramcote Drive)	H. E. Sansom, Esq.	SK(43)523373	149	...	29.32	195	125
d	Bramcote Reservoir	B. W. Davies, Esq., C.E. ..	SK(43)507375	327	...	25.60	...	...
d	Lenton (Experimental Station) ..	Boots Pure Drug Co. ..	SK(43)573381	160	...	26.69	166	115
d	Nottingham (Sneinton Pump.Stn.)(+A)	City Engineer & Surveyor ..	SK(43)592393	83	22.5	24.33	175	114
d	NOTTINGHAM (The Castle)	City Engineer & Surveyor ..	SK(43)568395	192	23.6	24.24	152	127
d	Nottingham (Colwick Sugar Factory)	British Sugar Corpn. Ltd. ..	SK(43)617341	70	...	24.11	...	...
d	Nottingham (Colwick Hill Reservoir)	B. W. Davies, Esq., C.E. ..	SK(43)596399	314	...	23.77	...	...
d	Nottingham (Colwick Home Sluices)	Trent River Board	SK(43)615393	75	...	22.09	157	111
d	Nottingham (Stoke Bardolph) ..	City Engineer & Surveyor ..	SK(43)647416	66	22.6	24.43	148	119
d	Nottingham (Basford Waterworks) ..	B. W. Davies, Esq., C.E. ..	SK(43)565429	168	24.0	25.85	178	120
d	Burton Joyce (Waterworks)	B. W. Davies, Esq., C.E. ..	SK(43)654443	65	25.2	24.83	173	123
d	Nottingham (Woodthorpe)	A. B. Tinn, Esq., F.R.Met.S.	SK(43)579440	225	24.0	27.05	188	124
d	Lambley Pumping Station	B. W. Davies, Esq., C.E. ..	SK(43)627451	204	...	24.85	182	121
d	Daybrook (Red Hill Reservoir) ..	B. W. Davies, Esq., C.E. ..	SK(43)581470	403	25.7	27.84	...	...
d	Daybrook (Ramsdale Hill Reservoir)	B. W. Davies, Esq., C.E. ..	SK(43)596483	503	28.1	29.96	...	...
d	Bulwell Hall Park	City Engineer & Surveyor ..	SK(43)532468	252	27.3	29.21	162	118
d	WATNALL	(+A) Meteorological Office ..	SK(43)506454	366	26.9	29.60	177	126
d	Papplewick (Waterworks)	B. W. Davies, Esq., C.E. ..	SK(43)583521	317	26.5	29.10	189	133
d	Southwell (The Nurseries)	H. Merryweather & Sons Ltd.	SK(43)697541	125	...	26.30	192	138
d	Blidworth (Silverland Farm) ..	G. H. Milner, Esq.	SK(43)563554	400	...	30.02	...	...
d	Sutton-in-Ashfield (Rushley Pump.Stn.)	P. W. Berridge, Esq.	SK(43)547578	425	27.1	32.43	...	138
d	Sutton-in-Ashfield (Sewage Wks.)(+A)	A. G. Dunks, Esq.	SK(43)510595	455	28.9	28.91	193	136
d	Mansfield (Rainworth Waterworks) ..	Engineer & Manager	SK(43)587586	349	26.8	29.01	189	133
d	Bilsthorpe (Rufford Pumping Station)	B. W. Davies, Esq., C.E. ..	SK(43)632611	276	...	26.83	197	123
d	Clipstone (Waterworks)	Engineer & Manager	SK(43)603643	228	24.9	27.75	184	129

DIVISION VII—NORTH MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957		
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
NOTTINGHAMSHIRE—(contd.)					ft.	in.	in.		
5.—TRENT. Left Bank Tributaries—(contd.)									
d	Edwinstowe (Laboratory)	..	National Coal Board	SK(43)624671	215	...	24.89	...	...
D	Ollerton (Boughton Waterworks)	..	B. W. Davies, Esq., C.E.	SK(43)667692	141	24.0	23.93	167	129
D	Budby (Pumping Station)	..	Engineer, Meden Valley W.W.	SK(43)604702	160	...	25.14	169	122
D	WARSOP (GLEADTHORPE E.H. FARM)	..	Director	SK(43)591699	150	24.3	24.19	179	120
D	Tuxford (Lound Hall)	..	Mr. C. W. Holliday	SK(43)700731	50	...	23.79	172	119
D	Clumber Gardens	..	Mr. C. Frankish	SK(43)623748	150	...	25.90	183	141
D	Elkesley (Pumping Station)	..	Lincoln Waterworks	SK(43)664760	120	23.2	23.83	163	119
D	Worksop (Bracebridge Sewage Works)	..	C. O. Allsopp, Esq.	SK(43)597790	97	23.9	23.75	163	114
d	Worksop (Osberton Gardens)	..	Capt. E. W. S. Foljambe	SK(43)629798	85	22.8	26.11	...	...
D	Worksop (Sunnyside Waterworks)	..	C. O. Allsopp, Esq.	SK(43)589806	245	...	26.26	183	123
d	Retford (Sewage Disposal Works)	..	Borough Surveyor	SK(43)706827	74	...	22.56	179	114
D	Retford (Babworth Hall)	..	Maj.-Gen. Sir John Whitaker	SK(43)687811	98	22.9	24.62	172	117
D	Worksop (Wigthorpe Hill)	..	R. C. P. Ramsden, Esq.	SK(43)594835	100	23.3	22.91	161	103
D	Gringley on the Hill	..	G. H. Simmons, Esq.	SK(43)734909	203	...	24.64	174	115
6.—OUSE. Don. 2 sq. mi.									
DERBYSHIRE. (Area, 1,017 sq. mi.)									
1.—MERSEY, UPPER. 93 sq. mi.									
M	Buxton (Cat and Fiddle Inn)	..	Stockport Corporation W.W.	SK(43)005717	1610	53.7	61.43	...	...
D	\$Buxton (Goytsclough)	..	Stockport Corporation W.W.	SK(43)011733	1175	52.8	59.96	196	178
D	\$Buxton (Goytshead)	..	Stockport Corporation W.W.	SK(43)012748	925	49.1	56.01	195	173
D	\$Fernilee (Upper Hall)	..	Stockport Corporation W.W.	SK(43)017771	940	44.9	51.78	195	171
D	\$Taxal (Oldfield)	..	Stockport Corporation W.W.	SK(43)012777	820	45.4	51.80	193	170
D	CHAPEL-EN-LE-FRITH	..	Ferodo Ltd.	SK(43)057809	728	...	45.48	192	153
d	Chapel-en-le-Frith (Ford Hall)	..	F. E. G. Bagshawe, Esq.		900	...	44.78	...	...
	\$Hayfield (Upper Sett)	..	Stockport Corporation W.W.	SK(43)074855	1420	49.5	53.68	...	...
D	\$Hayfield (Kinder Filters)	.. (+A)	Stockport Corporation W.W.	SK(43)054880	800	45.5	48.67	219	169
D	\$Hayfield (Hollin Head)	..	Stockport Corporation W.W.	SK(43)064883	950	49.8	53.89	219	180
D	Glossop Waterworks (Swineshaw)	..	Borough Surveyor	SK(43)044958	733	43.2	44.51	193	161
M	\$Torside (Clough Edge)	..	Manchester Corp. W.W.	SK(43)066970	1452	50.9	60.17	...	...
M	\$Bleaklow Hill (Dowstone Rocks)	..	Manchester Corp. W.W.	SK(43)093979	1718	...	60.60	...	...
2.—MERSEY. Weaver. 2 sq. mi.									
3.—TRENT. Right Bank Tributaries. 68 sq. mi.									
d	Church Gresley (Maurice Lea Park)	..	Swadlincote U.D.C.	SK(43)305189	400	...	26.28	...	...
d	Repton (Greenshot)	..	Miss M. W. Bromley	SK(43)302267	230	...	23.66	...	...
D	Stanton-by-Bridge (Waterworks)	..	Long Eaton U.D.C.	SK(43)375272	144	24.2	24.41	182	124
4.—TRENT. Dove. 156 sq. mi.									
D	Tutbury (Foston)	..	Trent River Board	SK(43)219310	178	...	27.53	185	122
d	Rodsley (Pumping Station)	..	Engineer	SK(43)194401	415	29.7	39.79	...	...
d	Brailsford (Shirley House)	..	Major F. D. Ley	SK(43)215418	425	...	33.75	...	...
5.—TRENT. Left Bank Tributaries. 84 sq. mi.									
D	SHARDLOW HALL	..	Provincial Director, N.A.A.S.	SK(43)438306	110	...	24.55	169	122
D	Etwall (Blakeley Lodge)	..	C. H. Hawley, Esq.	SK(43)268304	189	24.1	24.21	153	115
D	Etwall (Sewage Farm)	..	Boro. Engineer & Surveyor	SK(43)274298	201	25.2	25.33	171	128
D	Chesterfield (Whaley Well)	..	Engineer & Manager	SK(43)508718	337	...	25.78	175	122

§ Turf wall round gauge.

DIVISION VII—NORTH MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with -01 in. or more	Days with -04 in. or more
DERBYSHIRE—(contd.)				ft.	in.	in.		
6.—TRENT. Derwent. 426 sq. mi.								
D	Derby (Osmaston)	.. .. (+ A) Borough Engineer	SK(43)363328	210	...	24.82	172	118
D	Derby (Littleover Crescent)	.. .. M. Matthews, Esq.	SK(43)337340	230	...	24.85	176	116
D	Spondon (Derby Sewage Works)	.. .. Borough Engineer, Derby ..	SK(43)389351	135	25.5	25.85	171	114
D	Derby (Park Grove)	.. .. J. Davis & Son, Ltd.	SK(43)345374	198	...	24.88	179	120
d	Derby (Railway)	.. .. British Railways	SK(43)365349	156	25.1	25.61	...	...
D	Derby (Royal Infirmary)	.. .. I. W. Owen, Esq.	SK(43)357355	211	26.3	25.37	178	123
D	DERBY (Corp'n. Highway Depot)	.. .. Borough Engineer	SK(43)359367	159	...	25.00	157	120
D	Derby (Markeaton Park)	.. .. Borough Engineer	SK(43)331377	190	...	26.64	171	125
d	Breadsall Priory	.. .. E. S. Haslam, Esq.	SK(43)381414	370	...	27.90	...	124
D	MORLEY (Derbyshire Farm Institute)	.. .. Warden	SK(43)385401	350	...	28.16	163	122
D	Ambergate Reservoir	.. .. No. 61 Derwent Valley Water Bd.	SK(43)350526	646	...	38.75	174	140
D	WIRKSWORTH (West End)	.. .. Alan D. G. Smith, Esq. ..	SK(43)285538	560	...	40.07	189	144
d	Wirksworth (Wash Green)	.. .. Water Superintendent ..	SK(43)295538	738	...	37.71	...	138
D	Whatstandwell (Meerbrook Sough)	.. .. Ilkeston & Heanor Water Bd.	SK(43)325555	245	33.6	36.79	190	135
D	Brackenfield (Lindway Reservoir)	.. .. F. P. Walters, Esq.	SK(43)357584	595	31.9	35.09	193	145
d	Clay Cross (Press Reservoirs)	.. .. P. Hothersall, Esq., M.B.E.	SK(43)354657	810	31.7	32.77	...	...
D	Chatsworth Gardens	.. .. Head Gardener	SK(43)262701	436	34.7	31.39	194	148
w	Buxton (Portobello Bar)	.. .. Borough Engineer	SK(43)032712	1600	55.9	62.14	...	...
D	Buxton (Stanley Moor)	.. .. Borough Engineer	SK(43)041712	1340	52.1	64.59	223	183
w	Buxton (Burbage Edge)	.. .. Borough Engineer	SK(43)035728	1400	52.8	58.11	...	...
D	Buxton (Ashwood Dale Sewage Works)	.. .. Manager	SK(43)072728	917	...	51.83	227	173
D	BUXTON (Terrace Slopes)	.. .. Town Clerk	SK(43)059738	1007	48.4	53.33	236	173
	Buxton (Green Fairfield)	.. .. No. 115 Derwent Valley Water Board	SK(43)087747	1120	...	47.57	...	...
	Wormhill (Hargate Wall)	.. .. No. 109 Derwent Valley Water Board	SK(43)117752	1140	...	47.90	...	...
	Tideswell	.. .. No. 111 Derwent Valley Water Board	SK(43)149752	1000	...	42.07	...	...
	Tideswell (Wheston)	.. .. No. 112 Derwent Valley Water Board	SK(43)129768	1140	...	47.20	...	...
	Tideswell (Stanley Lodge)	.. .. No. 114 Derwent Valley Water Board	SK(43)175763	910	...	39.78	...	...
	Peak Forest (Middle Hill)	.. .. No. 104 Derwent Valley Water Board	SK(43)102772	1080	...	45.76	...	...
	Peak Forest (White Rake)	.. .. No. 110 Derwent Valley Water Board	SK(43)143781	1220	...	45.73	...	...
	Buxton (Dove Holes)	.. .. No. 103 Derwent Valley Water Board	SK(43)073777	1095	...	49.64	...	...
	Little Hucklow	.. .. No. 107 Derwent Valley Water Board	SK(43)162784	1012	...	42.46	...	...
D	Peak Forest	.. .. No. 100 Derwent Valley Water Board	SK(43)111792	1050	...	46.79	203	167
	Peak Forest (Eldon Hill)	.. .. No. 113 Derwent Valley Water Board	SK(43)121806	1350	...	47.37	...	...
	Bradwell (Paradise Farm)	.. .. No. 108 Derwent Valley Water Board	SK(43)162811	1060	...	47.48	...	...
	Castleton (Rowter Farm)	.. .. No. 105 Derwent Valley Water Board	SK(43)132820	1395	...	52.51	...	...
	Rushup Edge	.. .. No. 101 Derwent Valley Water Board	SK(43)103824	1245	...	53.70	...	...
D	Bamford (Engineer's Office)	.. .. No. 60 Derwent Valley Water Board	SK(43)202829	509	37.8	41.53	204	156
D	§Bamford Filters	.. .. No. 70A Derwent Valley Water Board	SK(43)212830	660	39.1	38.69	208	150
D	Grindleford (The Grange)	.. .. C. A. Whittington-Smith, Esq.	SK(43)242779	550	...	35.18	195	141
D	Holmesfield (Barbrook Reservoir)	.. .. P. Hothersall, Esq., M.B.E.	SK(43)280770	1080	35.6	34.83	220	151
	Holmesfield (White Edge)	.. .. Sheffield Corporation W.W.	SK(43)264786	1209	...	36.96	...	...
D	Burbage (Lower Burbage)	.. .. (+ A) Sheffield Corporation W.W.	SK(43)258802	924	36.2	35.30	224	153
D	Hope (Cement Works)	.. .. G. & T. Earle Ltd.	SK(43)168822	580	...	41.98	175	145
	Mam Nick	.. .. No. 98 Derwent Valley Water Board	SK(43)123837	1368	...	54.10	...	...
	Dalehead	.. .. No. 97 Derwent Valley Water Board	SK(43)101841	1030	...	55.41	...	...
	Stanage (Redmires)	.. .. Sheffield Corporation W.W.	SK(43)247840	1395	41.7	41.87	...	...
d	Bamford (Yorkshire Br. Weir)	.. .. No. 59B Derwent Valley Water Board	SK(43)198850	560	36.7	40.53	...	...
M	Grain Clough	.. .. No. 96A Derwent Valley Water Board	SK(43)096854	999	...	50.65	...	...
d	Edale Mill	.. .. No. 84 Derwent Valley Water Board	SK(43)134854	725	...	51.78	...	...
	Upper Booth	.. .. No. 85 Derwent Valley Water Board	SK(43)104854	950	...	50.43	...	...
	Edale End	.. .. No. 83 Derwent Valley Water Board	SK(43)162863	632	...	45.35	...	...
	Grindslow	.. .. No. 94 Derwent Valley Water Board	SK(43)119867	940	...	(54.19)	...	...
	Crook Hill	.. .. No. 92 Derwent Valley Water Board	SK(43)185870	1100	...	48.85	...	...
	Ladybower	.. .. No. 73 Derwent Valley Water Board	SK(43)205869	985	...	45.58	...	...
w	Grimbocar	.. .. No. 90 Derwent Valley Water Board	SK(43)172872	700	...	49.38	...	...

§ Turf wall round gauge.

DIVISION VII—NORTH MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957		
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
DERBYSHIRE—(contd.)					ft.	in.	in.		
6.—TRENT. Derwent—(contd.)									
	Nether Moor	No. 93	Derwent Valley Water Board	SK(43)143873	1460	...	(54.85)	...	...
	Hagg Farm	No. 81	Derwent Valley Water Board	SK(43)160885	700	...	51.62	...	...
	§Blackdean Brook ..	No. 89	Derwent Valley Water Board	SK(43)127890	1070	...	66.90	...	...
D	Fairholmes (Nursery) ..	No. 26A	Derwent Valley Water Board	SK(43)173893	685	42.8	51.56	226	174
	Middle Seal Clough ..	No. 79B	Derwent Valley Water Board	SK(43)111897	1320	...	63.24	...	...
	§Nether Red Clough ..	No. 78	Derwent Valley Water Board	SK(43)084903	1370	...	63.53	...	...
	§Ashop Head	No. 43A	Derwent Valley Water Board	SK(43)068907	1670	...	64.38	...	...
	Ouzelden Clough ..	No. 75	Derwent Valley Water Board	SK(43)160907	885	...	56.85	...	...
	§Urchin Clough	No. 88	Derwent Valley Water Board	SK(43)101908	1190	...	61.46	...	...
	Alport Moor (Alport Castles)	No. 82	Derwent Valley Water Board	SK(43)133919	975	...	59.16	...	...
w	Derwent Dale (Birchinlee) ..	No. 23	Derwent Valley Water Board	SK(43)165918	890	50.3	55.91	...	...
	§Lady Clough Moor ..	No. 41B	Derwent Valley Water Board	SK(43)112926	1720	...	63.91	...	...
	§Featherbed Top	No. 77	Derwent Valley Water Board	SK(43)089928	1665	...	65.30	...	...
D	Derwent Dale (Howden Dam)	No. 17	Derwent Valley Water Board	SK(43)168924	845	47.7	51.00	222	183
w	§Derwent Dale (Ridge Farm)	No. 13A	Derwent Valley Water Board	SK(43)161931	883	52.4	57.22	...	...
	Westend Moor (Blacklow Cote)	No. 15	Derwent Valley Water Board	SK(43)145936	970	51.3	54.91	...	...
	§Alport Moor	No. 38B	Derwent Valley Water Board	SK(43)106943	1790	...	68.55	...	...
	Deep Grain	No. 74	Derwent Valley Water Board	SK(43)123951	1360	...	65.15	...	...
w	Derwent Dale (Slippery Stones)	No. 62	Derwent Valley Water Board	SK(43)169951	908	49.4	56.33	...	...
	Ronksley Moor	No. 86	Derwent Valley Water Board	SK(43)147951	1660	...	65.05	...	...
	Bleaklow Hill	No. 87	Derwent Valley Water Board	SK(43)102960	2050	...	(67.29)	...	...
	Broadhead Clough ..	No. 63	Derwent Valley Water Board	SK(43)169962	1010	52.8	55.72	...	...
	Barrow Clough	No. 71	Derwent Valley Water Board	SK(43)142976	1330	...	62.86	...	...
7.—TRENT. Erewash. 50 sq. mi.									
D	Breaston (Woodland Avenue)	..	F. Cresswell, Esq.	SK(43)469336	115	...	25.21	174	129
D	Long Eaton (Town Hall)	..	Long Eaton U.D.C. ..	SK(43)490339	105	23.4	24.24	174	113
D	Ilkeston (New Stanton)	..	Stanton Ironworks Co., Ltd.	SK(43)475386	150	25.2	25.34	167	121
D	Ilkeston (Sewage Works)	..	Borough Surveyor	SK(43)482395	132	...	26.30	188	122
D	Morley Hall .. ..	..	C. H. D. Ham, Esq. ..	SK(43)395411	380	...	27.54	145	115
D	Codnor Park .. ..	..	British Waterways	SK(43)442517	243	...	30.77	156	115
8.—OUSE. Don. 138 sq. mi.									
	Chesterfield (Hunger Hill)	..	Engineer and Manager ..	SK(43)329679	643	33.6	35.82	...	...
D	Chesterfield (Whispering Well)	..	Engineer and Manager ..	SK(43)332694	575	32.5	33.83	187	141
D	Bolsover Colliery .. ..	..	Yorkshire Ouse River Board	SK(43)463710	275	...	28.05	189	124
D	CHESTERFIELD School .. ..	..	J. North, Esq.	SK(43)384717	298	...	28.22	169	127
D	Chesterfield (Lower Linacre Reservoir)	..	Engineer and Manager ..	SK(43)338725	430	31.8	32.53	190	140
D	Chesterfield (Middle Linacre Reservoir)	..	Engineer and Manager ..	SK(43)333726	500	...	33.90	189	149
D	Chesterfield (Upper Linacre Filters)	..	Engineer and Manager ..	SK(43)339727	521	...	33.37	188	142
D	Chesterfield (Sewage Works)	..	Manager	SK(43)392745	225	...	31.32	191	129
D	Chesterfield (Crowhole Reservoir)	..	P. Hothersall, Esq., M.B.E.	SK(43)321748	605	31.1	31.95	171	142
	Killamarsh .. ..	..	H. B. Hudson, Esq. ..	SK(43)455812	290	...	25.41	...	...

DIVISION VIII—NORTH-WESTERN COUNTIES

CHESHIRE. (Area, 1,014 sq. mi.)

1.—MERSEY. Upper. 187 sq. mi.							
D Langley (Twelve Ashes) ..	J. H. Dossett, Esq. ..	SJ(33)967712	903	...	44.82	205	168
D Langley (Trentabank Reservoir) (+A) ..	J. H. Dossett, Esq. ..	SJ(33)962712	864	...	44.46	205	168
D Langley (Bottoms Reservoir) ..	J. H. Dossett, Esq. ..	SJ(33)944715	662	38.5	39.45	196	165
D Macclesfield (Leadbeaters Reservoir) ..	J. H. Dossett, Esq. ..	SJ(33)926733	579	...	36.07	195	157

§ Turf wall round gauge.

DIVISION VIII—NORTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
CHESHIRE—(contd.)				ft.	in.	in.		
1.—MERSEY. Upper—(contd.)								
D	MACCLESFIELD (West Park)	.. .. J. H. Dossett, Esq.	SJ(33)911741	500	34.1	36.03	194	153
D	Rainow (The Clough)	.. .. Miss Anna Neave	SJ(33)946759	815	34.4	40.63	214	153
D	Nether Alderley	.. .. J. H. Shelmerdine, Esq.* ..	SJ(33)843764	329	...	33.14	194	147
D	Prestbury (Sewage Works)	.. (+A) Mersey River Board ..	SJ(33)897783	320	...	33.39	189	153
D	Knutsford	.. .. P. Bowles, Esq.	SJ(33)760790	213	30.3	34.71	174	146
D	Adlington (Styperson House)	.. .. Mersey River Board ..	SJ(33)929800	500	...	34.41	(195)	156
D	Disley (Lyme Park)	.. .. Stockport Corporation W.W.	SJ(33)971836	674	...	34.32	199	156
D	Disley (Higher Stoneridge)	.. .. Stockport Corporation W.W.	SJ(33)975837	750	35.2	37.76	200	157
D	Appleton Reservoir	.. .. (+A) Warrington Waterworks ..	SJ(33)602845	120	...	31.12	216	150
D	Moore (Uplands)	.. .. Lt.-Com. G. K. Rylands, R.N.	SJ(33)582841	120	...	30.05	195	151
D	RINGWAY (MANCHESTER Airport)(+A)	Meteorological Office ..	SJ(33)818850	248	29.9	30.45	180	144
D	High Lane (Light Alders Farm)	.. .. R. B. Melland, Esq. ..	SJ(33)964847	675	33.0	37.39	192	151
D	Altrincham (Norman's Place) ..	.. .. Miss G. A. Griffiths ..	SJ(33)764877	150	...	30.95	184	149
D	Dunham Massey (Sewage Works) (+A)	Mersey River Board ..	SJ(33)722877	55	...	30.63	193	146
D	Stockport (Cherry Tree Hospital)	.. .. Medical Officer of Health ..	SJ(33)915886	285	...	33.63	181	142
D	Timperley (Bloomsbury Lane)	.. .. P. Newton, Esq.	SJ(33)782886	98	...	32.43	183	146
d	Gatley (Park Road)	.. .. Miss Betty Wyles, B.Sc. ..	SJ(33)838885	150	...	34.29	197	152
D	Stockport (Cheadle Heath Sew. Wks.)	Borough Surveyor ..	SJ(33)869898	135	...	30.55	187	146
D	Stockport (Bredbury Sewage Works)	Bredbury & Romiley U.D.C.	SJ(33)917920	165	...	34.52	176	146
D	Sale (Carrington Lane)	.. .. (+A) Mersey River Board ..	SJ(33)765928	72	...	31.52	194	148
D	Sale (Sewage Works)	.. .. Manager	SJ(33)768930	58	...	33.03	195	152
	Godley Reservoir	.. .. Manchester Corp'n. W.W.	SJ(33)967954	488	34.8	39.98	209	160
	Bottoms Reservoir	.. .. Manchester Corp'n. W.W.	SK(43)024973	501	...	44.72	201	162
	Arnfield Reservoir	.. .. (+A) Manchester Corp'n. W.W.	SK(43)012972	512	39.1	43.04	203	167
	Rhodes Wood Reservoir	.. .. Manchester Corp'n. W.W.	SK(43)042982	545	42.7	48.45	208	168
§	Hollingworth Hall (Moor)	.. .. Manchester Corp'n. W.W.	SK(43)002984	1194	42.0	46.02	...	...
§	Torside Reservoir	.. .. Manchester Corp'n. W.W.	SK(43)054985	667	...	51.61	209	174
D	Stalybridge (Market Ground Yard)	.. .. M. T. B. Whitson, Esq., C.E.	SJ(33)964983	373	38.3	41.01	192	164
D	Stalybridge (Brushes Filter House)	.. .. M. T. B. Whitson, Esq., C.E.	SJ(33)997982	615	39.2	45.63	197	171
w	Higher Swineshaw	.. .. M. T. B. Whitson, Esq., C.E.	SK(43)006996	965	43.3	50.77	...	...
D	Woodhead Reservoir	.. .. Manchester Corp'n. W.W.	SK(43)078993	665	48.3	51.79	219	173
	§Arnfield Moor	.. .. Manchester Corp'n. W.W.	SK(43)033996	1290	49.9	56.75	...	...
	§Crowden (Span Gutter)	.. .. Manchester Corp'n. W.W.	SK(43)058999	1530	52.0	57.45	...	...
	§Pikenaze Moor (Audenshaw Clough)	Manchester Corp'n. W.W.	SE(44)114004	1148	53.7	57.34	...	...
	§Woodhead (Pikenaze)	.. .. Manchester Corp'n. W.W.	SE(44)098001	926	...	52.67	...	...
	§Swineshaw Moor (Boar Flat)	.. .. Manchester Corp'n. W.W.	SE(44)020003	1190	48.6	56.78	...	...
	§Westend Moor (Stonefold)	.. .. Manchester Corp'n. W.W.	SE(44)086020	1691	56.8	63.09	...	...
	§Withens Moor (West Withens)	.. .. Manchester Corp'n. W.W.	SE(44)114022	1382	60.0	65.30	...	...
	§Crowden (Meadow Clough)	.. .. Manchester Corp'n. W.W. ..	SE(44)074025	1425	...	(70.10)	...	...
	§Near Broadslate	.. .. Manchester Corp'n. W.W.	SE(44)055027	1663	...	69.12	...	...
	§Longside Moss	.. .. Manchester Corp'n. W.W.	SE(44)131007	1418	59.8	62.70	...	...
	§Grains Moss	.. .. Manchester Corp'n. W.W.	SE(44)068039	1573	58.1	(68.62)	...	...
2.—MERSEY. Weaver. 489 sq. mi.								
D	Audlem (Westville)	.. .. C. Coffin, Esq.*	SJ(33)656432	214	28.6	30.25	174	150
D	Bickerton (Peckforton P.S.)	.. .. C. V. Brown, Esq., C.E. ..	SJ(33)530553	330	...	31.85	176	145
d	Cholmondeley School	.. .. (+A) Headmaster *	SJ(33)553505	291	29.3	33.13	...	...
D	Nantwich (Baddiley Waterworks)	.. .. Mid & S.E. Cheshire W. Bd.	SJ(33)604505	231	28.3	30.10	180	147
D	Nantwich (Beam Bridge)	.. .. Nantwich U.D.C.	SJ(33)651533	120	...	29.66	189	144
D	Nantwich (Dorfold Hall)	.. .. British Waterways	SJ(33)634524	190	28.8	30.57	186	152
D	Nantwich (Brookfield House)	.. .. (+A) Nantwich U.D.C.	SJ(33)651516	130	...	30.19	177	138
D	Nantwich (Reaseheath Hall)	.. .. British Waterways	SJ(33)648542	130	...	29.59	183	146
D	Alsager (Radway Green)	.. .. Cheshire River Board ..	SJ(33)776542	257	...	33.55	185	161
D	Crewe (Sewage Works)	.. .. L. Reeves, Esq., C.E. ..	SJ(33)685554	125	27.6	29.56	189	146
D	Crewe (Isolation Hospital)	.. .. Mid & S.E. Cheshire W. Bd.	SJ(33)709566	181	27.6	31.46	198	146

§ Turf wall round gauge.

* Per Cheshire River Board.

DIVISION VIII—NORTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957		
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
CHESHIRE—(contd.)					ft.	in.	in.		
2.—MERSEY. Weaver—(contd.)									
D	Mow Cop (Pumping Station)	..	Mid & S.E. Cheshire W. Bd.	SJ(33)843577	460	...	32.73	195	146
D	Sandbach (Pumping Station)	..	Mid & S.E. Cheshire W. Bd.	SJ(33)763610	210	28.3	30.58	173	147
D	Eaton (Pumping Station)	..	Mid & S.E. Cheshire W. Bd.	SJ(33)567634	285	31.6	33.29	185	152
D	§ Congleton (Sewage Works)	..	(+A) Borough Surveyor ..	SJ(33)853635	247	30.5	32.83	188	147
D	Congleton (Buglawton Hall)	..	British Waterways ..	SJ(33)885644	450	32.6	33.26	184	150
d	Bosley Reservoir	..	Cheshire River Board ..	SJ(33)927657	590	34.2	35.15	...	144
d	Bosley Top Lock	..	British Waterways ..	SJ(33)905669	500	...	37.51	...	145
D	Wincle	..	J. A. Grantham, Esq. ..	SJ(33)963653	700	...	43.59	204	156
D	Middlewich	..	I.C.I. (Alkali) Ltd. ..	SJ(33)709657	138	28.1	31.15	187	144
D	Tarporley (Sandyford Waterworks)	..	Mid & S.E. Cheshire W. Bd.	SJ(33)567667	249	32.0	33.58	206	151
D	Middlewich (Bostock Hall)	..	Manchester Corpn. ..	SJ(33)675684	157	29.9	31.17	179	131
D	Delamere (Linnere)	..	Forestry Commission ..	SJ(33)556703	250	31.9	33.32	191	151
d	Cuddington (Merle Wood)	..	Sir Edwin Cooper Burgis, K.T.	SJ(33)597720	200	...	33.38	173	143
D	Northwich (Crabtree Green)	..	Mid & S.E. Cheshire W. Bd.	SJ(33)584711	163	32.0	36.49	...	151
D	Northwich (Weaverham Grange)	..	Mid & S.E. Cheshire W. Bd.	SJ(33)633728	151	...	33.25	181	152
D	Northwich (Hunts Lock)	..	British Waterways ..	SJ(33)656729	47	30.0	32.45	185	147
D	NORTHWICH (WINNINGTON)	..	I.C.I. (Alkali) Ltd. ..	SJ(33)643747	65	29.2	30.96	182	145
D	Chelford (Kennel Bank)	..	A. M. Haworth, Esq. ..	SJ(33)813741	263	...	33.88	184	142
D	Chelford (Snelson House)	..	R. C. Walsh, Esq. ..	SJ(33)803747	250	...	30.90	192	141
D	Northwich (Lostock Gralam)	..	I.C.I. (Alkali) Ltd. ..	SJ(33)682743	75	...	30.56	186	146
D	Northwich (Marbury Road)	..	Charles Cooper, Esq. ..	SJ(33)649764	96	...	31.60	172	141
3.—MERSEY. Lower & C. 142 sq. mi.									
d	Barrowmore	..	(+A) Cheshire River Board ..	SJ(33)474691	114	...	29.29	...	...
D	Mouldsworth (Pumping Station)	..	West Cheshire Water Board	SJ(33)503704	145	28.9	29.37	198	138
D	Manley (Ravelstone)	..	Mrs. A. Haworth ..	SJ(33)515722	300	31.9	30.15	181	155
D	Foxhill (Pumping Station)	..	Warrington Waterworks ..	SJ(33)506748	155	30.2	29.27	178	149
D	Ellesmere Port (The Refinery)	..	Lobitos Oilfields Ltd. ..	SJ(33)424759	15	...	27.96	171	134
D	Hooton (Waterworks)	..	West Cheshire Water Board	SJ(33)351780	97	30.3	28.44	200	141
D	Crosshill Reservoir, new g.	..	W. K. Lewis, Esq., C.E. ..	SJ(33)280842	212	...	31.91	183	146
D	Port Sunlight	..	Lever Bros. ..	SJ(33)336842	50	...	31.21	177	141
D	Prenton (Waterworks)	..	West Cheshire Water Board	SJ(33)295864	91	28.1	30.06	175	142
D	Bidston (The Woodlands)	..	Peter Stevenson, Esq., M.A.	SJ(33)284893	90	...	29.90	190	145
D	Birkenhead (BIDSTON OBS'Y.)	..	(+A) Director ..	SJ(33)287897	198	27.9	26.62	187	131
D	WALLASEY (Harrison Park)	..	(+A) Borough Engineer & Surveyor	SJ(33)293932	57	...	29.51	180	137
4.—DEE. 127 sq. mi.									
D	Bickerton (Tower Wood P.S.)	..	C. V. Brown, Esq., C.E. ..	SJ(33)504540	308	...	31.99	174	143
D	Eaton Hall Gardens	..	Mr. G. Miller ..		60	26.9	30.63	185	135
D	Chester (Sewage Disposal Works)	..	Engineer and Surveyor ..	SJ(33)393667	16	26.1	26.65	170	128
D	Chester (Dicksons Drive)	..	M. H. O. Hoddinott, Esq. ...	SJ(33)409677	64	...	29.09	202	141
D	WEST KIRBY (PARK)	..	Hoylake U.D.C. ..	SJ(33)216865	26	...	30.67	180	136
SOUTH LANCASHIRE. (Area, 700 sq. mi.)									
1.—ALT & C. 103 sq. mi.									
D	Liverpool (Knotty Ash)	..	K. G. Ledson, Esq. ..	SJ(33)412916	106	...	33.91	179	153
d	Prescot (Knowsley Hall)	..	Head Gardener ..	SJ(33)443944	172	33.1	31.38	...	...
d	Kirby (Estate Works)	..	Mersey River Board ..	SJ(33)400980	48	32.9	32.47	...	...
D	Crosby (Merchant Taylors' School)	..	H. Tunley, Esq. ..	SJ(33)321991	20	28.1	28.95	185	144
D	Formby (Ince Blundell)	..	Mersey River Board ..	SD(34)322032	36	...	32.88	224	160
d	Ormskirk (Bickerstaffe Pumping Stn.)	..	N. B. Bennett, Esq., C.E. ..	SD(34)419036	127	33.2	35.68	...	...
d	Ormskirk (Springfield Pumping Stn.)	..	N. B. Bennett, Esq., C.E. ..	SD(34)388046	69	33.1	34.48	176	147
D	Formby (Hightown)	..	(+A) Mersey River Board ..	SD(34)294044	25	...	29.36	194	151

§ Turf wall round gauge.

DIVISION VIII—NORTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
SOUTH LANCASHIRE—(contd.)				ft.	in.	in.		
2.—MERSEY. Lower. 244 sq. mi.								
D	SPEKE (Liverpool Airport) ..	(+A) Meteorological Office ..	SJ(33)415839	77	...	30.00	190	144
D	Garston Depot ..	.. Liverpool Corporation ..	SJ(33)395853	81	30.7	29.56	182	136
D	Halewood (Sewage Works) ..	.. Manager ..	SJ(33)461854	30	...	33.07	197	157
D	Widnes (Laboratory) ..	.. Imperial Chem. Indust., Ltd.*	SJ(31)513842	26	...	30.02	181	142
D	Widnes (Catherine Street) ..	.. Widnes Water Department	SJ(33)513849	30	...	30.13	180	140
D	Liverpool (Smithdown Road) ..	.. Liverpool Corporation ..	SJ(33)391885	135	31.7	33.21	196	147
D	Great Sankey (Liverpool Road) ..	(+A) Mersey River Board ..	SJ(33)552889	65	...	32.91	194	157
D	Cronton (Pex Hill, Old Reservoir) ..	.. Widnes Water Department	SJ(33)502889	228	31.6	33.12	171	149
D	Liverpool (Monument Place) ..	(+A) Liverpool Corporation ..	SJ(33)354907	127	32.3	29.75	182	143
D	Liverpool (Rathbone Road) ..	.. Liverpool Corporation ..	SJ(33)391907	198	34.3	30.90	191	145
D	Liverpool (Breckside Park) ..	.. Liverpool Corporation ..	SJ(33)376928	132	33.2	31.30	187	144
D	Liverpool (Queens Drive) ..	.. Liverpool Corporation ..	SJ(33)361950	119	33.3	33.22	189	159
D	Warrington (Highways Yard) ..	.. Borough Surveyor ..	SJ(33)603881	43	...	31.85	192	153
D	Winwick (Pumping Station) ..	.. Warrington Waterworks ..	SJ(33)605931	115	31.5	34.06	193	160
	Prescot ..	.. Liverpool Corpn. W.W. ..	SJ(33)473936	282	33.3	33.60	...	...
D	St. Helens (Eccleston Hill) ..	.. M. Ward, Esq., C.E. ..	SJ(33)488941	250	33.6	34.04	201	148
D	St. Helens (Victoria Park) ..	.. Medical Officer of Health ..	SJ(33)508963	145	33.9	31.32	188	148
D	Newton le Willows (Vista Avenue) ..	.. T. Green, Esq. ..	SJ(33)573959	145	...	33.35	200	158
D	St. Helens (Windle Hall) ..	.. Sir Harry Pilkington ..	SJ(33)500976	160	...	33.12	189	145
d	Litherland (Hatton Hill Park) ..	.. C. Rigby, Esq., C.E. ..	SJ(33)335976	59	...	29.01	...	...
D	Leigh (Sewage Works) ..	.. T. N. Cockcroft, Esq., B.Sc.	SJ(33)661993	67	32.6	31.73	180	151
D	Rainford (Rookery Sewage Works) ..	.. Mersey River Board ..	SJ(33)485999	107	33.0	35.13	188	160
D	Hindley (Platt Bridge Sewage Works)	.. Surveyor ..	SD(34)609025	91	36.5	35.21	205	156
d	Atherton (Cemetery) ..	.. Mersey River Board ..	SD(34)666029	165	36.5	38.47	...	...
3.—MERSEY. Irwell. 299 sq. mi.								
D	Manchester (Hullard Park) ..	.. Stretford U.D.C. ..	SJ(33)823962	100	32.4	36.23	211	157
D	Manchester (Old Trafford) ..	.. Stretford U.D.C. ..	SJ(33)816961	107	...	34.96	189	151
D	Urmston (Davyhulme Sewage Works)	.. Manchester Cpn. Rivers Dpt.	SJ(33)756962	72	30.9	32.11	179	142
D	Patricroft (Eccles Sewage Works) ..	(+A) Manager ..	SJ(33)760974	71	30.3	33.81	177	144
D	Salford (Weaste Sewage Works) ..	.. City Engineer ..	SJ(33)794980	70	32.9	35.58	199	158
D	Swinton (Sewage Works) ..	.. Engineer & Surveyor ..	SD(34)773003	144	...	38.74	192	157
D	Ashton-under-Lyne (Knott Hill Res.)	.. M. T. B. Whitson, Esq., C.E.	SD(34)958014	605	39.7	45.17	217	170
D	Prestwich (Sewage Works) ..	.. Manager ..	SD(34)800033	150	36.6	42.81	206	164
	Prestwich Reservoir ..	.. Manchester Corpn. W.W. ..	SD(34)812032	340	38.2	43.20	204	165
D	Prestwich (Heaton Park) ..	.. City Surveyor, Manchester	SD(34)825043	325	36.8	46.66	204	173
	Prestwich (Heaton Park Reservoir) ..	.. Manchester Corpn. W.W. ..	SD(34)824047	355	37.1	44.49	209	168
d	Oldham (Gasworks) ..	.. C. Busfield, Esq., C.E. ..	SD(34)958066	602	...	49.58	...	...
d	Bolton (Hacken Sewage Works) ..	.. Manager ..	SD(34)737075	182	39.4	45.71	193	164
D	Oldham (Brushes Clough) ..	.. C. Busfield, Esq., C.E. ..	SD(34)956097	921	46.7	53.29	216	171
D	Royton (Sewage Works) ..	.. Engineer & Surveyor ..	SD(34)907072	430	...	40.14	197	165
D	BOLTON (Queen's Park) ..	(+A) Corporation ..	SD(34)705092	342	43.1	48.13	203	164
D	Bolton (Heaton Reservoir) ..	.. Corporation Waterworks ..	SD(34)687096	500	43.5	50.70	220	176
M	§Bolton W.W. (Harpers Farm) ..	.. Corporation Waterworks ..	SD(34)668114	872	44.2	50.82	...	...
D	Bolton (Smithhills Hall) ..	.. Corporation ..	SD(34)700118	510	46.1	54.53	175	161
D	Bury (Sewage Works) ..	.. G. R. C. Marsden, Esq. ..	SD(34)804079	220	...	42.46	203	160
d	Bury (Elton Reservoir) ..	.. British Waterways ..	SD(34)792097	294	38.7	43.51	...	...
d	Bury (Greenhill Road) ..	.. R. Moore, Esq. ..	...	399	40.5	50.46	181	163
D	Castleton (Trub Sewage Works)	.. Borough Surveyor ..	SD(34)884097	438	...	43.50	190	157
D	Newhey (Sewage Works) ..	.. Crompton U.D.C. ..	SD(34)933112	513	41.6	47.44	193	163
D	Milnrow (Piethorne, Kitcliffe) ..	.. C. Busfield, Esq., C.E. ..	SD(34)961125	766	46.1	50.78	209	178
D	Milnrow (Piethorne, Cold Greave) ..	.. C. Busfield, Esq., C.E. ..	SD(34)967126	832	46.3	51.82	209	178
D	ROCHDALE (Roch Mills Sewage Wks.)	.. Borough Surveyor ..	SD(34)886129	363	44.5	46.19	198	162
D	Rochdale (Queensway) ..	(+A) Rochdale Corporation ..	SD(34)885108	475	42.4	46.79	193	166
D	Bury (Gin Hall) ..	.. No. 1 Irwell Valley Water Board	SD(34)805144	475	43.7	51.20	200	169

* Per Mersey River Board.

§ Turf wall round gauge.

DIVISION VIII—NORTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957		
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
SOUTH LANCASHIRE—(contd.)					ft.	in.	in.		
3.—MERSEY. Irwell—(contd.)									
D	Bury (Gin Hall)	..	No. 2 Irwell Valley Water Board	SD(34)807141	475	44.5	51.67	200	167
D	Bolton W.W. (Springs)	..	No. 2 Corporation Waterworks	SD(34)692142	810	54.5	69.70	218	187
M	Bolton W.W. (Eagley)	..	No. 4 Corporation Waterworks	SD(34)703148	546	52.3	65.19	...	...
D	Turton (Turton Tower)	..	Turton U.D.C.	SD(34)731153	584	49.1	60.47	221	178
D	§Bolton W.W. (Delph)	..	Corporation Waterworks	SD(34)704156	710	53.6	63.43	213	180
M	Bolton W.W. (Longworth)	..	Corporation Waterworks	SD(34)692161	770	52.4	64.96	...	...
D	Bolton W.W. (Wayoh)	..	No. 3 Corporation Waterworks	SD(34)733163	608	51.7	60.37	213	176
M	Bolton W.W. (Top-o'-th'-Brow)	..	Corporation Waterworks	SD(34)709170	935	56.5	68.89	...	...
D	Bolton W.W. (Entwistle)	..	Corporation Waterworks	SD(34)724173	700	52.4	61.42	213	175
M	Bolton W.W. (Bromiley Heys)	..	Corporation Waterworks	SD(34)663169	925	53.4	67.37	...	...
M	§Bolton W.W. (Hulton Pasture)	..	Corporation Waterworks	SD(34)672183	1090	49.7	63.95	...	...
M	§Bolton W.W. (Moorside)	..	Corporation Waterworks	SD(34)738184	850	50.2	60.17	...	...
M	Bolton W.W. (Clough)	..	Corporation Waterworks	SD(34)687184	1150	54.2	69.11	...	...
M	Bolton W.W. (Cranberry Moss)	..	Corporation Waterworks	SD(34)710192	982	52.0	66.49	...	...
M	Bolton W.W. (Slater Lane)	..	Corporation Waterworks	SD(34)662192	985	52.1	68.92	...	...
M	Bolton W.W. (Brown Lowe)	..	Corporation Waterworks	SD(34)684193	1200	52.9	69.57	...	...
M	Bolton W.W. (Longshoot)	..	Corporation Waterworks	SD(34)737204	930	52.8	63.32	...	...
	Bolton W.W. (Uglosh)	..	No. 2 Corporation Waterworks	SD(34)758206	1090	51.1	63.94	...	...
D	Rochdale (Hamer Pasture Res.)	..	Rochdale Corporation	SD(34)897161	760	48.6	53.88	195	165
D	Littleborough (Longden End)	..	C. Busfield, Esq., C.E.	SD(34)958140	751	48.2	55.44	215	179
D	Littleborough (Hollingworth Lake)	..	C. Busfield, Esq., C.E.	SD(34)941150	610	40.6	45.45	202	164
D	Littleborough (Blackstone Edge)	..	C. Busfield, Esq., C.E.	SD(34)966182	1268	45.0	56.40	210	180
D	Littleborough (Upper Chelburn)	..	C. Busfield, Esq., C.E.	SD(34)952185	725	48.2	53.55	208	172
D	Littleborough (Chelburn)	..	C. Busfield, Esq., C.E.	SD(34)949188	700	46.6	52.86	208	172
d	Ramsbottom	..	British Waterways	SD(34)794169	418	47.7	55.56	...	...
D	Edenfield (New Hall Nurseries)	..	Irwell Valley Water Board	SD(34)807197	800	46.9	57.57	205	170
D	Waterfoot (Cragg Reservoir)	..	Bacup Borough Council	SD(34)846197	1325	53.3	64.71	220	190
D	Waterfoot (Cowpe Reservoir)	..	Bacup Borough Council	SD(34)843204	925	54.3	60.16	216	179
D	Rochdale (Spring Mill, Whitworth)	..	Rochdale Corporation	SD(34)875168	697	51.5	58.77	210	172
D	Wardle (Watergrove Mill)	..	Rochdale Corporation	SD(34)910183	803	49.9	57.57	225	178
D	Helmshore (Musbury Valley)	..	Irwell Valley Water Board	SD(34)770212	750	52.1	58.88	204	177
D	HELMSHORE (Exper. Husbandry Farm)	..	Director	SD(34)774205	854	...	66.26	205	184
D	Haslingden (Holden Wood)	..	No. 1 Irwell Valley Water Board	SD(34)774223	690	52.1	60.48	202	177
D	Haslingden (Holden Wood)	..	No. 2 Irwell Valley Water Board	SD(34)766227	670	51.4	60.08	202	175
D	Haslingden (Calf Hey)	..	No. 1 Irwell Valley Water Board	SD(34)750222	800	50.9	63.47	201	178
D	Haslingden (Ogden)	..	No. 1 Irwell Valley Water Board	SD(34)761229	740	50.9	60.42	202	179
D	Haslingden (Ogden)	..	No. 2 Irwell Valley Water Board	SD(34)756224	740	51.7	63.13	201	176
D	Bacup (Sheephouse Reservoir)	..	Bacup Borough Council	SD(34)877220	975	...	59.80	228	180
D	Rawtenstall (Cemetery)	..	(+A) Boro' Engineer & Surveyor	SD(34)813233	572	46.3	55.46	191	177
D	Bacup (Stake Brook)	..	Mersey River Board	SD(34)873251	1125	...	57.95	224	184
D	Rawtenstall (Green Fold Res.)	..	(+A) Irwell Valley Water Board	SD(34)823261	1000	47.6	53.12	202	173
D	Rawtenstall (Green Fold Res.)	..	No. 2 Irwell Valley Water Board	SD(34)829264	1025	46.1	52.36	207	172
D	Rawtenstall (Clowbridge Res.)	..	No. 1 Irwell Valley Water Board	SD(34)824281	930	47.6	59.24	201	186
D	Rawtenstall (Clowbridge Res.)	..	No. 2 Irwell Valley Water Board	SD(34)828278	930	51.6	63.09	201	187
4.—MERSEY. Upper. 54 sq. mi.									
D	Chorlton-cum-Hardy (Sewage Works)	..	Manchester Cpn. Rivers Dpt.	SJ(33)807931	95	30.5	34.97	209	164
D	Stretford (Sewage Farm)	..	Borough Engineer	SJ(33)783933	65	...	35.06	196	156
D	Denton (Sewage Works)	..	Denton U.D.C.	SJ(33)921935	190	31.0	34.87	182	148
D	Fallowfield (Platt Field Park)	..	City Engineer, Manchester	SJ(33)852943	118	30.6	32.01	200	147
	Gorton Reservoir	..	Manchester Corpn. W.W.	SJ(33)900961	263	35.0	36.39	211	158
	Audenshaw Reservoirs	..	Manchester Corpn. W.W.	SJ(33)913973	300	...	39.59	219	169
D	Ashton-u-Lyne (Henrietta St. Yard)	..	M. T. B. Whitson, Esq., C.E.	SJ(33)940995	394	37.2	41.29	191	164
D	Lower Swineshaw Reservoir	..	M. T. B. Whitson, Esq., C.E.	SK(43)004994	886	43.6	48.01	196	172
w	Swineshaw Moor	..	M. T. B. Whitson, Esq., C.E.	SE(44)010008	1340	...	53.51	...	...

§ Turf wall round gauge.

DIVISION VIII—NORTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957		
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
CENTRAL LANCASHIRE.—(Area, 536 sq. mi.)					ft.	in.	in.		
1.—RIBBLE & C. 326 sq. mi.									
M	Rivington (Tockholes) .. ..	..	Liverpool Corpn. W.W. ..	SD(34)663201	970	...	62.65	...	...
M	Roddlesworth .. ..	..	Liverpool Corpn. W.W. ..	SD(34)655216	725	...	57.18	...	...
D	Darwen (Sunnyhurst Hey Res.) ..	..	Borough & Water Engineer	SD(34)677221	915	49.5	59.30	212	176
D	Darwen (Earnsdale Reservoir) ..	..	Borough & Water Engineer	SD(34)670220	705	47.4	61.27	212	175
D	DARWEN (Bold Venture Park) ..	..	Medical Officer of Health ..	SD(34)687217	724	50.1	62.45	199	170
D	Darwen (Hoddlesden) .. ..	..	Blackburn Waterworks ..	SD(34)718224	680	49.1	66.06	235	182
D	\$Darwen (Daisy Green) .. ..	..	Blackburn Waterworks ..	SD(34)726242	969	...	68.86	236	189
D	\$Darwen (Pickup Bank) .. ..	..	Blackburn Waterworks ..	SD(34)721237	727	...	67.50	236	187
D	Haslingden (Mitchell's House Res.) ..	..	R. Jackson, Esq., B.Sc. ..	SD(34)788275	930	45.0	44.91	197	168
D	Blackburn (Guide Reservoir) ..	..	Blackburn Waterworks ..	SD(34)698264	610	44.9	48.66	197	166
D	Blackburn (Witton) .. ..	..	Blackburn Waterworks ..	SD(34)669276	315	42.0	48.29	194	154
	Hutton (Lancs C.C. Hort. Station)		County Inst. of Agriculture	SD(34)513268	82	35.2	37.93	...	...
D	Accrington (Oak Hill Park) .. (+A)		Borough Engineer ..	SD(34)765278	645	...	55.55	206	176
D	Accrington (Coppo Clough S.W.) (+A)		Borough Engineer ..	SD(34)743294	386	...	49.05	194	163
d	Preston (West Cliff) .. ..	..	Lancashire River Board ..	SD(34)532288	25	...	40.54	...	...
D	PRESTON (MOOR PARK) .. (+A)		Jeremiah Horrocks Obsy. ..	SD(34)537311	108	35.3	41.47	195	153
D	Samlesbury (Sewage Works) .. ..	..	Blackburn Waterworks ..	SD(34)621292	240	36.9	38.76	185	146
D	SQUIRES GATE (Blackpool Airport) (+A)		Meteorological Office ..	SD(34)316317	33	31.8	33.04	180	135
w	Burnley W.W. (Causeway Side) ..	..	J. Shepherd, Esq., C.E. ..	SD(34)890292	1110	...	55.66	...	...
w	\$Burnley W.W. (Sheddin) .. ..	..	J. Shepherd, Esq., C.E. ..	SD(34)893301	960	...	52.33	...	...
D	\$Burnley W.W. (Cant Clough, S. Side)		J. Shepherd, Esq., C.E. ..	SD(34)894306	903	...	52.76	210	176
D	\$Burnley W.W. (Cant Clough, N. Side)		J. Shepherd, Esq., C.E. ..	SD(34)890313	896	...	50.82	210	177
w	\$Burnley W.W. (Rams Clough Head)		J. Shepherd, Esq., C.E. ..	SD(34)903326	1236	...	55.75	...	...
D	Huncoat (Burnley Road Reservoir) ..	..	R. Jackson, Esq., B.Sc. ..	SD(34)774296	640	43.0	49.67	199	167
D	Rishton .. ..	..	British Waterways ..	SD(34)715301	466	...	45.27	187	173
D	Rishton (Sewage Works) .. ..	..	Surveyor	SD(34)738311	300	...	47.92	188	160
D	Great Harwood (Parsonage Reservoir)		Blackburn Waterworks ..	SD(34)699321	631	40.7	44.37	195	158
D	Great Harwood (Kebb Farm) .. ..	..	R. Jackson, Esq., B.Sc. ..	SD(34)722328	670	...	52.84	200	169
d	Burnley (Habergham Eaves) .. ..	..	R. M. Smith, Esq. ..	SD(34)838308	780	...	46.49	204	163
D	BURNLEY (Queens Park) .. ..	..	Medical Officer of Health ..	SD(34)849334	458	...	45.00	174	166
D	\$Burnley W.W. (Swinden) upper g. ..	..	J. Shepherd, Esq., C.E. ..	SD(34)893331	811	43.6	51.32	201	177
D	Burnley W.W. (Swinden) lower g. ..	..	J. Shepherd, Esq., C.E. ..	SD(34)885334	745	44.3	48.72	210	174
w	\$Burnley W.W. (Extwistle Moor Top)		J. Shepherd, Esq., C.E. ..	SD(34)907335	1308	...	55.28	...	...
D	Padiham (Altham Sewage Works) ..	..	Water Engineer, Padiham ..	SD(34)776331	225	40.9	45.33	190	165
D	Padiham (Memorial Park) .. ..	..	Water Engineer, Padiham ..	SD(34)789337	305	...	45.99	210	167
D	Padiham (Huntroyde) .. ..	..	C. Russell Ingham, Esq. ..	SD(34)786351	430	41.1	50.78	194	169
D	Longridge (Alston Reservoir) .. ..	..	Preston Waterworks ..	SD(34)604366	330	41.0	45.49	202	161
	\$Nelson (Red Spa Moor) .. ..	..	Nelson Corporation W.W. ..	SD(34)910352	1175	...	51.75	...	...
D	\$Nelson (Coldwell Reservoir) .. No. 3		Nelson Corporation W.W. ..	SD(34)901356	1060	...	54.83	211	181
D	\$Nelson (Coldwell Reservoir) .. No. 2		Nelson Corporation W.W. ..	SD(34)900362	960	46.3	52.91	211	179
D	Whalley (Calderstones Institution) ..	..	C. R. Iken, Esq.* ..	SD(34)725371	198	...	47.72	193	155
D	Nelson (Sewage Works) .. ..	..	Nelson Corporation W.W. ..	SD(34)845375	359	...	49.21	187	165
D	NELSON (Walton Lane) .. (+A)		Medical Officer of Health ..	SD(34)872384	540	40.6	47.98	208	165
D	Ribchester Institution .. ..	..	E. G. Heaver, Esq.* ..	SD(34)627365	279	...	49.56	192	161
D	STONYHURST College .. ..	..	Rev. J. Lawrence, S.J. ..	SD(34)692388	377	46.5	53.88	200	165
D	Longridge (Cowley Brook) .. ..	..	Preston Waterworks ..	SD(34)641392	616	...	54.87	203	170
D	Longridge (Spade Mill) .. ..	..	Preston Waterworks ..	SD(34)618373	362	41.7	49.50	205	165
D	Longridge (Jeffrey Hill) .. ..	..	Preston Waterworks ..	SD(34)669399	900	47.3	54.32	...	...
D	Sabden (Churn Clough Reservoir) ..	..	Water Engineer, Padiham ..	SD(34)786382	790	41.2	53.61	213	172
D	\$Barley (Ogden Reservoir) .. ..	..	Nelson Corporation W.W. ..	SD(34)817398	908	...	62.31	201	170
D	\$Pendle Hill (Buttock) .. ..	..	Nelson Corporation W.W. ..	SD(34)807401	1175	49.9	67.17	203	173
D	Colne (Swinden Sewage Works) ..	..	Borough Engineer ..	SD(34)874395	423	42.0	46.87	198	157
D	Colne (Judge Fields) (+A)		Borough Engineer ..	SD(34)886406	559	...	49.43	209	164
d	Barrowford Reservoir .. ..	..	British Waterways ..	SD(34)868403	473	41.0	48.36	190	164
D	Clitheroe (Higher Standen Cottage) ..	..	Lancashire River Board ..	SD(34)750403	340	...	50.35	197	160

* Per Lancashire River Board.

§ Turf wall round gauge.

DIVISION VIII—NORTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with -01 in. or more	Days with -04 in. or more
CENTRAL LANCASHIRE—(contd.)				ft.	in.	in.		
1.—RIBBLE & C.—(contd.)								
	§Nelson (Blackmoss Reservoir)	.. Nelson Corporation W.W.	SD(34)826414	825	...	59·04	...	...
d	Foulridge (Upper Reservoir)	.. British Waterways ..	SD(34)893413	582	40·5	50·74	...	...
D	Chatburn School	.. Headmaster ..	SD(34)769441	322	43·0	42·23	213	162
	Clitheroe (Downham Hall)	.. Lord Clitheroe, P.C.	SD(34)783443	464	...	47·60	...	...
2.—RIBBLE. Douglas. 156 sq. mi.								
D	Wigan W.W. (Billinge Higher End)	.. Borough Engineer ..	SD(34)525030	374	37·5	40·93	187	162
D	Orrell (Upholland)	.. F. H. Smith, Esq. ..	SD(34)536033	355	35·5	39·13	180	153
d	Wigan (Gidlow Sec. Mod. School)	.. Headmistress ..	SD(34)573068	150	...	38·61	...	...
D	Wigan W.W. (Worthington)	.. Borough Engineer ..	SD(34)580102	225	35·4	42·07	193	160
D	Horwich (Lower Rivington)	.. Liverpool Corpn. W.W.	SD(34)631126	440	38·7	46·20	200	159
	Horwich (Gilsbrook Spring)	.. Liverpool Corpn. W.W.	SD(34)635134	598	...	51·22	...	...
M	Rivington (Scotchman's Post)	.. Liverpool Corpn. W.W.	SD(34)660146	1425	...	55·64	...	...
M	Rivington (Hordern Stoops)	.. Liverpool Corpn. W.W.	SD(34)650154	1065	...	55·35	...	...
	Rivington (Brown Hill)	.. Liverpool Corpn. W.W.	SD(34)635157	727	...	51·61	...	...
D	§Rivington (Stones House)	.. Liverpool Corpn. W.W.	SD(34)621163	640	...	51·74	199	171
M	Rivington (Round Loaf)	.. Liverpool Corpn. W.W.	SD(34)632184	970	...	50·86	...	...
	||Rivington (Great Hill)	.. Liverpool Corpn. W.W.	SD(34)646190	1240	...	57·25	...	...
	||Rivington (Coppice Stile)	.. Liverpool Corpn. W.W.	SD(34)627191	879	...	50·80	...	...
M	Rivington (Pimms)	.. Liverpool Corpn. W.W.	SD(34)652195	987	...	62·88	...	...
M	Rivington (Gamekeeper's)	.. Liverpool Corpn. W.W.	SD(34)640209	850	45·4	56·83	...	...
	Mawdesley	.. Lancashire River Board	SD(34)493150	69	...	39·97	197	164
	Chorley (Filter Beds)	.. Liverpool Corpn. W.W.	SD(34)604171	430	...	48·32	...	...
D	Chorley (Common Bank Sew. Wks.)	Manager ..	SD(34)565178	187	...	40·69	189	153
d	Chorley (Cowling Sewage Works)	.. Borough Engineer ..	SD(34)595166	262	...	46·40	199	163
3.—COAST STREAMS. 52 sq. mi.								
D	Formby (Victoria Road)	.. J. Coney, Esq. ..	SD(34)290084	10	29·8	31·74	191	149
d	Southport (Sandbrook Road P.S.)	.. Borough Engineer ..	SD(34)318119	...	...	32·54	174	144
D	SOUTHPORT (Bank End Sew. Wks.)	.. Borough Engineer ..	SD(34)371208	16	...	36·16	197	159
d	Rufford (Pulmonary Hospital)	.. Head Gardener* ..	SD(34)456164	38	...	39·80	178	161
D	Crossens (Pumping Station)	.. L. J. Lepine, Esq. ..	SD(34)378206	15	...	35·89	183	161
4.—OUSE. Aire. 2 sq. mi.								
d	Watersheddles Reservoir	.. G. E. V. Boldry, Esq., C.E.	SD(34)968379	1115	...	57·86	...	...
NORTH LANCASHIRE. (Area, 609 sq. mi.)								
1.—DUDDON & C. 77 sq. mi.								
D	Barrow-in-Furness (Gasworks)	.. Water Engineer, Barrow ..	SD(34)218689	17	37·6	40·10	188	147
D	Barrow-in-Furness (Sew. Wks.) (+A)	.. J. N. Flitcroft, C.E. ..	SD(34)215688	20	39·3	42·41	180	148
D	Little Urswick (North View)	.. Miss I. Dobson ..	SD(34)265738	130	44·4	47·06	191	153
D	URSWICK Vicarage	.. Rev. M. D. Grieve ..	SD(34)268742	130	...	48·13	192	155
D	Dalton-in-Furness (Dowdales)	.. R. Kitchin, Esq. ..	SD(34)226743	150	...	48·97	189	157
D	Ulverston (Poaka Beck)	.. Water Engineer, Barrow ..	SD(34)240782	512	52·1	56·77	209	175
w	§Duddon Valley (Seathwaite Tarn)	.. Water Engineer, Barrow ..	SD(34)249984	1221	97·5	99·90	...	...
2.—LEVEN & C. 135 sq. mi.								
D	Ulverston (Park Road)	.. E. Satterthwaite, Esq. ..	SD(34)289778	50	...	55·16	208	162
D	Haverthwaite	.. Lancashire River Board ..	SD(34)345839	43	...	58·19	201	171
d	Newby Bridge (Fell Foot)	.. P. S. Rhodes, Esq.** ..	SD(34)382871	175	...	63·66	...	...
D	Cartmel Fell (Tower Wood)	.. Windermere U.D.C. ..	SD(34)385914	150	...	63·23	216	174
	Cartmel Fell (Ghyll Head Reservoir)	.. Windermere U.D.C. ..	SD(34)397924	420	63·1	65·07	...	...

§ Turf wall round gauge.

|| Gauge over-exposed.

* Per Lancashire River Board.

** Under auspices of Freshwater Biological Association.

DIVISION VIII—NORTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
NORTH LANCASHIRE—(contd.)				ft.	in.	in.		
2.—LEVEN & C.—(contd.)								
D	Coniston (Holywath)	Major J. W. B. Hext ..	SD(34)298979	250	94.2	103.84	226	195
d	Near Sawrey (Ferry House) ..	Freshwater Biological Assoc.	SD(34)390956	145	...	59.87	...	...
D	Far Sawrey (Righting House) ..	M. Illingworth, Esq. ..	SD(34)374962	440	...	61.25	214	175
D	Hawkshead (Wraymires Fisheries) ..	Freshwater Biological Assoc.	SD(34)363974	271	...	70.51	211	185
d	High Wray (Huyton Hill School) ..	Freshwater Biological Assoc.	NY(35)368019	129	...	77.29	...	....
3.—KENT & C. 45 sq. mi.								
d	MORECAMBE	Town Clerk	SD(34)431645	23	37.0	40.96	...	149
D	Morecambe (Bare Lane) ..	K. M. Wolstencroft, Esq. ..	SD(34)455644	20	...	40.50	181	152
D	Carnforth (Pedder Pots Reservoir) ..	L. Lyons, Esq., C.E. ..	SD(34)533700	268	...	48.55	198	159
4.—LUNE. 135 sq. mi.								
d	Garstang (Winmarleigh Hall) ..	Director N.I.A.B. ..	SD(34)469480	46	...	37.33	180	154
D	Hampson-in-Ellel	John Welch, Esq. ..	SD(34)495541	145	38.3	40.74	191	164
	Bowland Forest (High Salter) ..	Lancashire River Board ..	SD(34)617622	1014	...	64.30	...	...
	Bowland Forest (Whiteray) ..	Lancashire River Board ..	SD(34)678613	1139	57.5	66.65	...	...
D	Lancaster (Blea Tarn Reservoir) ..	L. Lyons, Esq., C.E. ..	SD(34)495583	330	...	49.66	192	164
D	Lancaster (Stodday)	L. Lyons, Esq., C.E. ..	SD(34)460588	25	...	40.83	188	150
d	Lancaster (Lune Aqueduct) ..	British Waterways ..	SD(34)482640	74	38.4	45.85	193	166
D	Hornby (The Snab)	Capt. Ralph Heathcote ..	SD(34)563682	110	...	48.72	200	158
5.—WYRE & C. 213 sq. mi.								
D	Weeton Reservoir	Fylde Water Board ..	SD(34)395344	133	36.6	40.87	194	160
D	Fulwood W.W. (Haighton Reservoir) ..	Lancashire River Board ..	SD(34)574352	264	...	44.77	182	152
D	KIRKHAM (Esprick)	Director, Fairfield E.H. Stn.	SD(34)414317	78	35.6	39.07	193	148
D	POULTON-LE-FYLDE	Headmaster	SD(34)346384	100	...	37.92	173	142
D	St. Michael's-on-Wyre	E. W. Hornby, Esq. ..	SD(34)459410	26	36.0	38.66	188	150
D	Fulwood W.W. (Barnsfold Reservoir) ..	Lancashire River Board ..	SD(34)577416	508	...	53.33	199	169
D	Preesall (Pumping Station) ..	Lancashire River Board ..	SD(34)365465	30	...	36.08	191	152
D	Garstang (Barnacre Reservoir) ..	Fylde Water Board ..	SD(34)528480	616	45.7	53.93	206	168
D	Garstang (Grizedale Reservoir) ..	Fylde Water Board ..	SD(34)522483	517	43.6	46.67	206	160
	Garstang (Calder Intake) ..	Fylde Water Board ..	SD(34)544484	632	46.6	51.23	...	...
D	Garstang (Scorton)	W. G. Richmond, Esq. ..	SD(34)502488	92	...	43.37	184	157
	Garstang (Grizedale Intake) ..	Fylde Water Board ..	SD(34)541496	644	46.6	49.02	...	...
D	Wyresdale (Abbeystead Reservoir) ..	L. Lyons, Esq., C.E. ..	SD(34)563542	366	47.9	60.67	200	174
D	Abbeystead Gardens	Mr. George Penk ..	SD(34)566544	420	50.1	56.91	206	171
D	Damas Ghyll Reservoir	L. Lyons, Esq., C.E. ..	SD(34)527573	590	...	50.97	197	167
	Quernmore (Old Gauge Basin) ..	L. Lyons, Esq., C.E. ..	SD(34)541576	963	...	57.85	...	...
	Quernmore (Hare Syke)	L. Lyons, Esq., C.E. ..	SD(34)596576	1610	69.3	79.25	...	...
6.—INSULAR. 4 sq. mi.								

DIVISION IX—YORKSHIRE

WEST RIDING. (Area, 2,803 sq. mi.)

1.—LUNE. 178 sq. mi.							
D Austwick (Springfield)	Lancashire River Board ..	SD(34)765685	500	...	51.51	222	174
Great Harlow 31	Fylde Water Board ..	SD(34)696612	1490	...	80.02	...	...
Clapham Common 32	Fylde Water Board ..	SD(34)729615	1180	...	72.43	...	...
D Sedbergh (Brigflatts)	The Misses Wilson ..	SD(34)642912	305	53.0	53.98	214	172
D Sedbergh School	H. Dawson, Esq. ..	SD(34)654919	400	...	54.28	207	176

|| Site unorthodox.

DIVISION IX—YORKSHIRE—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
WEST RIDING—(contd.)				ft.	in.	in.		
2.—RIBBLE. 225 sq. mi.								
D	Colne (Lower Coppy) .. ..	.. Engineer, Water Dept. ..	SD(34)955408	975	...	45.23	207	161
D	Colne (Laneshaw Reservoir) .. ..	.. Engineer, Water Dept. ..	SD(34)943414	795	...	44.79	207	160
D	Barnoldswick (County Sec. School) .. ..	.. C. R. Nutter, Esq. ..	SD(34)883462	567	...	48.09	201	166
	Slaidburn (Hareden Fell) .. ..	.. Preston Waterworks ..	SD(34)618493	1300	...	83.76	...	...
D	Slaidburn (Hareden Valley) .. ..	.. Preston Waterworks ..	SD(34)635503	563	68.3	76.86	229	182
D	Slaidburn (Langden Brook) .. ..	.. Preston Waterworks ..	SD(34)628511	559	68.6	80.19	216	182
	Slaidburn (Holdron Moss) .. ..	.. Preston Waterworks ..	SD(34)606511	1300	...	85.30	...	...
d	Slaidburn (Dunsop Houses) .. ..	.. Blackburn Waterworks ..	SD(34)654515	450	62.9	68.07	...	...
d	Slaidburn (Footholme) .. ..	.. Blackburn Waterworks ..	SD(34)652531	565	62.2	68.65	...	...
M	Slaidburn (Middle Knoll) .. ..	.. Blackburn Waterworks ..	SD(34)653543	1288	67.5	81.55	...	...
D	Slaidburn (Croasdale House) .. ..	.. Fylde Water Board ..	SD(34)704550	600	56.7	64.49	207	173
D	§Slaidburn (Stocks) .. ..	.. No. 10 Fylde Water Board ..	SD(34)719550	658	56.0	63.56	209	172
D	SLAIDBURN (Stocks) .. ..	.. No. 11 Fylde Water Board ..	SD(34)715549	629	...	62.93	208	172
D	Slaidburn (Phynis) .. ..	.. Fylde Water Board ..	SD(34)712544	572	...	59.38	207	172
	Slaidburn (Standridge) .. ..	.. Fylde Water Board ..	SD(34)737534	775	...	57.14	...	...
M	Slaidburn (Croasdale Valley) .. ..	.. Fylde Water Board ..	SD(34)694557	720	61.3	74.20	...	...
	§Slaidburn (Croasdale Top) .. ..	.. Fylde Water Board ..	SD(34)668574	1310	...	89.83	...	...
M	§Slaidburn (Dalehead) .. ..	.. Fylde Water Board ..	SD(34)733564	610	...	61.19	...	...
M	Slaidburn (Holme House) .. ..	.. Fylde Water Board ..	SD(34)725571	601	...	62.80	...	...
M	Slaidburn (Far Barn) .. ..	.. Fylde Water Board ..	SD(34)746572	675	...	60.76	...	...
	Slaidburn (Tosside) .. ..	.. Fylde Water Board ..	SD(34)766563	880	...	55.12	...	...
M	Slaidburn (Cabin Hill) .. ..	.. Blackburn Waterworks ..	SD(34)621563	1559	68.5	82.56	...	...
M	Slaidburn (Baxton Fell) .. ..	.. Blackburn Waterworks ..	SD(34)673561	1525	75.8	88.19	...	...
M	Slaidburn (Saddle Hill) <i>new gauge</i> .. ..	.. Fylde Water Board ..	SD(34)690579	1400	...	87.14	...	...
M	§Slaidburn (Collyholme) .. ..	.. Fylde Water Board ..	SD(34)716578	650	...	68.38	...	...
	Settle (Holden Moor) .. ..	.. Fylde Water Board ..	SD(34)765589	1036	...	60.56	...	...
M	Settle (Bottoms) .. ..	.. Fylde Water Board ..	SD(34)748585	864	...	60.18	...	...
M	Settle (Swire Clough) .. ..	.. Fylde Water Board ..	SD(34)725595	1190	...	68.97	...	...
	§Settle (Catlow) .. ..	.. Fylde Water Board ..	SD(34)705591	825	...	72.71	...	...
M	§Settle (Greet Bridge) .. ..	.. Fylde Water Board ..	SD(34)702589	825	...	74.72	...	...
M	Settle (Lamb Hill) .. ..	.. Fylde Water Board ..	SD(34)688592	1328	67.3	77.12	...	...
	§Slaidburn (Knotteranum) .. ..	.. Fylde Water Board ..	SD(34)737606	1200	...	73.34	...	...
	§Settle (Big Hill) .. ..	.. Fylde Water Board ..	SD(34)765618	975	...	64.15	...	...
d	Settle (Gasworks) .. ..	.. A. Smalley, Esq. ..	SD(34)816633	450	43.9	49.92	...	164
D	Giggleswick (Belfield) .. ..	.. E. H. Horner, Esq. ..	SD(34)814644	600	...	49.42	207	167
D	Ribbleshead (Station) .. ..	.. British Railways, for M.O. ..	SD(34)766789	1025	...	80.41	229	194
3.—MERSEY. Irwell. 2 sq. mi.								
D	Oldham (Strinesdale) .. ..	.. C. Busfield, Esq., C.E. ..	SD(34)955064	791	42.8	47.81	207	169
4.—MERSEY. Upper. 35 sq. mi.								
w	Greenfield (Chew, Blindstones) .. ..	.. M. T. B. Whitson, Esq., C.E. ..	SE(44)038014	1745	57.6	65.88	...	...
w	Greenfield (Chew, Great Gruff) .. ..	.. M. T. B. Whitson, Esq., C.E. ..	SE(44)032013	1650	...	65.11	...	...
D	§Greenfield (Chew Mount) .. ..	.. M. T. B. Whitson, Esq., C.E. ..	SE(44)035020	1578	55.7	65.15	239	188
w	§Greenfield (Chew Reservoir) .. ..	.. M. T. B. Whitson, Esq., C.E. ..	SE(44)046020	1648	57.8	64.83	...	...
w	§Greenfield (Chew Sluice) .. ..	.. M. T. B. Whitson, Esq., C.E. ..	SE(44)037029	1670	56.4	65.19	...	...
D	Greenfield (Sewage Disposal Works) .. ..	.. Manager ..	SD(34)992043	499	42.0	49.54	216	186
D	§Greenfield (Yeoman Hey) .. ..	.. M. T. B. Whitson, Esq., C.E. ..	SE(44)022046	784	49.1	56.60	219	182
w	§Greenfield (Ashway Moss) .. ..	.. M. T. B. Whitson, Esq., C.E. ..	SE(44)032046	1581	...	62.42	...	...
w	Greenfield (Birchen Clough) .. ..	.. M. T. B. Whitson, Esq., C.E. ..	SE(44)034050	1018	51.4	58.18	...	...
d	§Greenfield (Upperwood Moor) .. ..	.. M. T. B. Whitson, Esq., C.E. ..	SE(44)031063	1518	...	58.95	...	...
w	Saddleworth Station .. ..	.. British Waterways ..	SE(44)000064	574	45.4	49.16	...	...
D	Denshaw (Rochdale Road) .. ..	.. J. Buckley, Esq. ..	SD(34)973106	870	...	55.48	197	175

§ Turf wall round gauge.

DIVISION IX—YORKSHIRE—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
WEST RIDING—(contd.)				ft.	in.	in.		
4.—MERSEY. Upper—(contd.)								
D	Denshaw (Ox Hey)	C. Busfield, Esq., C.E. ..	SD(34)985104	1031	47.1	51.81	205	181
D	Denshaw (Crawshaw Hey)	C. Busfield, Esq., C.E. ..	SD(34)985108	956	47.0	50.53	217	181
D	Denshaw (New Year's Bridge)	C. Busfield, Esq., C.E. ..	SD(34)986107	986	...	49.27	217	181
5.—TRENT. Derwent. 9 sq. mi.								
D	Burbage (Parson's House)	Sheffield Corporation W.W.	SK(43)271810	1309	36.1	37.47	205	153
	Burbage (Higger Lodge)	Sheffield Corporation W.W.	SK(43)273816	1225	36.8	37.80	...	...
§	Burbage (Upper Burbage)	Sheffield Corporation W.W.	SK(43)264829	1364	38.1	38.90	...	...
	Derwent Dale (Howden Dean) No. 72	Derwent Valley Water Bd.	SK(43)185926	960	...	50.75	...	...
§	Derwent Dale (Howden Cl'gh) No. 64A	Derwent Valley Water Bd.	SK(43)177936	1010	44.4	48.31	...	...
M	§Derwent Dale (Sandy Lee) .. No. 7A	Derwent Valley Water Bd.	SK(43)180953	1320	...	57.08	...	...
6.—TRENT. Left Bank Tributaries. 143 sq. mi.								
D	Tickhill (Dadsley Road)	K. G. Brown, Esq.	SK(43)591935	60	...	25.06	167	119
D	Austerfield (Pumping Station)	Doncaster & Tickhill W. Bd.	SK(43)661962	32	...	23.10	166	112
D	Rossington (Main Colliery)	National Coal Board ..	SK(43)602984	22	...	25.66	163	122
D	Balby (Sewage Works) (+A)	M. Cawley, Esq., C.E. ..	SE(44)569010	29	...	25.06	149	115
D	Doncaster (Low Pasture Pumping Stn.)	M. Cawley, Esq., C.E. ..	SE(44)589022	24	...	24.31	157	111
D	LINDHOLME Airfield	Meteorological Office ..	SE(44)682063	18	...	23.90	153	107
7.—OUSE. Don. 574 sq. mi.								
	Burbage (Badger House)	Sheffield Corporation W.W.	SK(43)286822	1138	...	37.26	...	...
D	Sheffield (Norton Lees)	J. A. Grocock, Esq. ..	SK(43)349838	295	...	27.85	189	133
D	Sheffield W.W. (Redmires Res.) (R)	Sheffield Corporation W.W.	SK(43)262857	1110	40.3	41.44	212	161
	Rivelin (Oaking Clough) .. No. 2	Sheffield Corporation W.W.	SK(43)246862	1185	...	43.75	...	...
	Rivelin (Middle Moss)	Sheffield Corporation W.W.	SK(43)243871	1168	41.0	45.81	...	...
D	Sheffield W.W. (Rivelin) (+A)	Sheffield Corporation W.W.	SK(43)287869	564	35.2	34.86	189	139
	Sheffield W.W. (Black Clough)	Sheffield Corporation W.W.	SK(43)235876	1175	40.3	46.91	...	...
D	Sheffield W.W. (Crookes)	Sheffield Corporation W.W.	SK(43)330872	629	31.0	30.21	203	142
D	SHEFFIELD (Weston Park)	Borough Council ..	SK(43)339873	428	30.4	28.84	184	131
	Loxley Valley (Crawshaw Wood)	Sheffield Corporation W.W.	SK(43)252887	1175	...	45.97	...	...
	Loxley Valley (Broadcar)	Sheffield Corporation W.W.	SK(43)223904	1004	44.4	43.74	...	...
	Loxley Valley (Oakes Fm., Damflask)	Sheffield Corporation W.W.	SK(43)272903	650	36.1	37.34	...	...
	Loxley Valley (Loftshaw Strines)	Sheffield Corporation W.W.	SK(43)242902	1003	43.2	44.25	...	...
D	Loxley Valley (Bradfield Filters)	Sheffield Corporation W.W.	SK(43)261916	551	...	38.16	208	155
D	Loxley Valley (Dale Dike Reservoir) ..	Sheffield Corporation W.W.	SK(43)242917	710	41.9	42.56	227	166
	Loxley Valley (Brogging Moss)	Sheffield Corporation W.W.	SK(43)211917	1360	...	51.41	...	...
M	Loxley Valley (Thornseat)	Sheffield Corporation W.W.	SK(43)230923	1326	42.6	44.32	...	...
	Loxley Valley (Rocher Flat)	Sheffield Corporation W.W.	SK(43)267935	1106	...	39.27	...	...
	Loxley Valley (Emlin Moor)	Sheffield Corporation W.W.	SK(43)247934	998	41.3	42.05	...	...
§	Loxley Valley (White Lee Moor)	Sheffield Corporation W.W.	SK(43)265946	1170	...	39.89	...	...
	Loxley Valley (Hobson Moss)	Sheffield Corporation W.W.	SK(43)217946	1530	...	48.00	...	...
d	Rotherham (Ulley Reservoir) .. No. 2	E. J. Manson, Esq., C.E. ..	SK(43)455874	184	23.4	24.62	147	126
d	Rotherham (Ulley Reservoir) .. No. 3	E. J. Manson, Esq., C.E. ..	SK(43)453876	132	23.2	23.67	147	116
D	Wincobank (Sewage Works)	J. H. Edmondson, Esq. ..	SK(43)394916	110	23.0	21.88	158	109
D	ROTHERHAM (Broom Lane)	L. Atkinson, Esq. ..	SK(43)435923	284	...	23.85	176	112
D	Rotherham (Aldwarke Sew. Wks.) (+A)	E. J. Manson, Esq., C.E. ..	SK(43)444943	70	...	22.18	162	107
D	Rotherham (Thrybergh)	M. Cawley, Esq., C.E. ..	SK(43)474961	184	23.8	24.35	174	120
D	Rotherham (Thorpe Hesley)	E. J. Manson, Esq., C.E. ..	SK(43)386964	201	...	23.85	178	118
d	Grenoside (Council Offices)	Wortley R.D.C. ..	SK(43)336935	560	...	26.68	...	...
D	Conisborough (Firsby Reservoir)	M. Cawley, Esq., C.E. ..	SK(43)495958	189	26.1	24.13	173	121
§	Ewden (Middle Moss)	Sheffield Corporation W.W.	SK(43)207949	1600	51.0	49.34	...	...
§	Ewden (Broomhead Moor)	Sheffield Corporation W.W.	SK(43)224956	1370	47.8	44.55	...	...
D	Ewden (Canyard Brook)	Sheffield Corporation W.W.	SK(43)261957	585	...	36.63	209	155
	Ewden (Candle Rush)	Sheffield Corporation W.W.	SK(43)203965	1400	...	46.85	...	...

§ Turf wall round gauge.

DIVISION IX—YORKSHIRE—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957			
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more	
WEST RIDING—(contd.)					ft.	in.	in.			
7.—OUSE. Don—(contd.)										
	Ewden (Broomhead Hall)	..	..	Sheffield Corporation W.W.	SK(43)242963	905	42.1	39.46	...	...
D	Ewden (More Hall Reservoir)	..	..	Sheffield Corporation W.W.	SK(43)289957	408	33.9	31.28	202	142
D	§Ewden (Broomhead Reservoir)	..	..	Sheffield Corporation W.W.	SK(43)268961	484	...	36.37	210	154
M	Ewden (Margery Hill)	..	..	Sheffield Corporation W.W.	SK(43)189957	1784	52.3	51.63	...	...
M	Ewden (Brown Edge)	..	..	Sheffield Corporation W.W.	SK(43)220969	1325	50.5	44.81	...	...
D	Wortley (Service Reservoir)	..	..	W. G. Lees, Esq., C.E.	SK(43)308998	700	30.0	28.21	204	134
D	Midhope Moor (Barnside)	..	..	W. G. Lees, Esq., C.E.	SK(43)229984	1000	43.4	45.65	210	167
M	Little Don Valley (Laund Clough)	..	..	Sheffield Corporation W.W.	SK(43)157990	1515	55.7	57.26	...	...
D	Little Don Valley (Underbank Res.)	..	..	Sheffield Corporation W.W.	SK(43)247995	604	36.8	34.21	199	147
D	Langsett Moor (Midhope)	..	..	W. G. Lees, Esq., C.E.	SK(43)219994	830	...	40.32	201	156
D	Langsett Moor (Upper Midhope)	..	..	Sheffield Corporation W.W.	SK(43)215999	925	41.6	37.76	217	163
§	Langsett Moor (Mickleden)	..	..	Sheffield Corporation W.W.	SK(43)192988	1217	48.0	45.76	...	...
	Langsett Moor (Mickleden Edge)	..	..	Sheffield Corporation W.W.	SK(43)190985	1110	50.3	49.76	...	...
§	Langsett Moor (Catclough)	..	..	Sheffield Corporation W.W.	SK(43)172984	1516	47.8	54.51	...	...
	Langsett Moor (Loftshaw Brook)	..	..	Sheffield Corporation W.W.	SK(43)150993	1480	49.1	55.09	...	...
§	Dunford Bridge (Brown's Clough)	..	..	D. E. Strachan, Esq., C.E.	SE(44)145004	1405	...	64.20	...	...
	Langsett Moor (Border Hill)	..	..	Sheffield Corporation W.W.	SE(44)177011	1148	46.9	47.85	...	...
D	Langsett Moor (Swinden Lodge)	..	..	Sheffield Corporation W.W.	SE(44)189009	1032	44.0	42.26	209	161
D	Langsett Reservoir	..	.. (+A)	Sheffield Corporation W.W.	SE(44)211003	820	...	37.92	216	158
D	Langsett Moor (Flouch Road)	..	..	Sheffield Corporation W.W.	SE(44)205004	960	42.2	39.84	218	161
D	Wath-upon-Dearne (Wath Wood Res.)	..	..	Water Engineer	SK(43)437993	330	...	22.71	169	112
w	§Hazelehead (Town Brook Intake)	..	..	W. G. Lees, Esq., C.E.	SE(44)177037	1037	...	45.74	...	...
w	§Dunford Bridge (Long Grain)	..	..	W. G. Lees, Esq., C.E.	SE(44)166019	1125	51.6	50.00	...	...
D	§Wogden Foot (Cat Clough)	..	..	W. G. Lees, Esq., C.E.	SE(44)182025	889	47.6	44.33	225	162
D	Doncaster (Pumping Station)	..	..	M. Cawley, Esq., C.E.	SE(44)576040	31	...	25.16	155	112
M	§Dunford Bridge (Dearden Moss)	..	..	D. E. Strachan, Esq., C.E.	SE(44)137015	1500	...	63.65	...	...
D	Dunford Bridge (Stoney Gate)	..	..	D. E. Strachan, Esq., C.E.	SE(44)157010	1086	51.5	54.49	214	172
M	§Dunford Bridge (End Springs)	..	..	D. E. Strachan, Esq., C.E.	SE(44)130022	1450	...	64.85	...	...
D	§Dunford Bridge Reservoir	..	..	D. E. Strachan, Esq., C.E.	SE(44)151023	1081	53.8	56.64	214	171
M	§Dunford Bridge (Swines Clough Moss)	..	..	D. E. Strachan, Esq., C.E.	SE(44)126028	1503	...	64.25	...	...
d	Wombwell (Broomhill W.W.)	..	..	Dearne Valley Water Bd.	SE(44)411026	120	...	24.46	...	...
D	§Dunford Bridge (Harden)	..	..	D. E. Strachan, Esq., C.E.	SE(44)150035	1204	52.5	55.76	218	179
M	§Dunford Bridge (Reaps Slack)	..	..	D. E. Strachan, Esq., C.E.	SE(44)130037	1490	59.6	63.55	...	...
D	Barnsley (Worsborough Bridge)	..	..	Engineer and Surveyor	SE(44)363035	150	...	25.65	187	110
D	Darfield (Sewage Works)	..	..	Surveyor	SE(44)421038	83	...	24.85	152	113
D	§Penistone (Royd Moor)	..	..	W. G. Lees, Esq., C.E.	SE(44)222045	835	...	33.45	204	155
M	Penistone (Gringley Carr)	..	..	W. G. Lees, Esq., C.E.	SE(44)201050	1090	...	38.20	...	...
D	Penistone (Ingbirchworth Reservoir)	..	..	W. G. Lees, Esq., C.E.	SE(44)213056	853	...	33.98	199	150
	Penistone (Spicer House)	..	..	W. G. Lees, Esq., C.E.	SE(44)204056	985	...	35.68	...	...
D	§Penistone (Broadstone Reservoir)	..	..	W. G. Lees, Esq., C.E.	SE(44)195062	1030	...	40.06	214	158
w	Hepworth (Pottersgate House)	..	..	W. G. Lees, Esq., C.E.	SE(44)190063	1165	...	38.05	...	...
d	Barnsley (Queens Road)	..	..	Borough Engineer	SE(44)348063	310	...	22.94	...	...
d	Doncaster (Bentley Works)	..	..	Research Engineer	SE(44)563058	28	...	24.64	...	...
D	Barnsley (Jordan Hill)	..	..	W. G. Lees, Esq., C.E.	SE(44)336069	460	26.2	22.79	169	112
D	Doncaster (Sandall Works)	..	..	M. Cawley, Esq., C.E.	SE(44)601060	41	...	24.79	154	115
D	Bentley Colliery	..	..	National Coal Board	SE(44)571073	22	...	25.82	147	114
D	Barnsley (Burntwood Hall)	..	..	R. Dymond, Esq.	SE(44)428093	378	25.9	24.68	154	125
D	Kirk Bramwith	..	..	T. A. D. Farran, Esq., C.E.	SE(44)618115	22	23.2	22.28	162	113
D	Thorne	..	..	Yorkshire Ouse River Board	SE(44)675145	15	...	23.78	164	116
D	Hemsworth (Fitzwilliam)	..	..	Hemsworth & U.K. Coke Oven Co. Ltd.	SE(44)417155	246	24.0	23.14	168	124
	Goole	..	..	British Waterways	SE(44)745235	18	22.9	25.36	166	120
8.—OUSE. Aire. Calder. 361 sq. mi.										
D	Great Hey	..	..	H. P. Joyce, Esq., C.E.	SE(44)104042	1200	...	65.55	194	179

§ Turf wall round gauge.

DIVISION IX—YORKSHIRE—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with ·01 in. or more	Days with ·04 in. or more
WEST RIDING—(contd.)				ft.	in.	in.		
8.—OUSE. Aire. Calder—(contd.)								
D	Hey Springs	H. P. Joyce, Esq., C.E. ..	SE(44)117046	1100	...	59·29	194	178
D	Holmbridge (Yateholme) ..	H. P. Joyce, Esq., C.E. ..	SE(44)111043	1009	59·2	59·47	194	177
M	§Holmbridge (Far Naze End) ..	H. P. Joyce, Esq., C.E. ..	SE(44)098048	1500	...	69·89	...	...
M	§Holmbridge (Red Cabin) ..	H. P. Joyce, Esq., C.E. ..	SE(44)115036	1510	...	63·83	...	...
	Holmbridge (Lightens Road) ..	H. P. Joyce, Esq., C.E. ..	SE(44)102038	1473	...	63·59	...	...
D	Holmbridge (Ramsden) ..	H. P. Joyce, Esq., C.E. ..	SE(44)116051	861	56·4	56·48	194	174
	Holmbridge (Bilberry Reservoir) ..	J. P. Beveridge, Esq., C.E.	SE(44)102068	870	...	47·61	...	...
D	Holmfirth (Holme Styes Reservoir) ..	Water Engineer ..	SE(44)142055	925	45·7	41·99	199	159
	Holmfirth (Boshaw Whams Reservoir)	J. P. Beveridge, Esq., C.E.	SE(44)153057	930	...	39·06	...	...
M	§Hepworth (Spring Head) ..	W. G. Lees, Esq., C.E. ..	SE(44)179068	1165	...	37·44	...	...
d	Holmfirth (Snape Reservoir) ..	Water Engineer ..	SE(44)115087	1075	...	42·37	...	...
	Meltham (Harden Moss) ..	J. P. Beveridge, Esq., C.E.	SE(44)098086	1212	...	52·25	...	...
	Wessenden Head ..	J. P. Beveridge, Esq., C.E.	SE(44)068077	1200	...	55·76	...	...
	Wessenden (Holly Bank Moss)	J. P. Beveridge, Esq., C.E.	SE(44)064082	1280	...	56·90	...	...
	Wessenden (Old Reservoir) ..	J. P. Beveridge, Esq., C.E.	SE(44)056087	940	...	56·07	...	...
d	Stanedge (Redbrook Reservoir)	British Waterways ..	SE(44)026102	1150	...	55·23	...	...
	Wessenden (Butterley Moss) ..	J. P. Beveridge, Esq., C.E.	SE(44)047096	1110	...	57·30	...	...
	§Wessenden (Bobus) ..	J. P. Beveridge, Esq., C.E.	SE(44)035097	1200	...	55·00	...	...
	Meltham (Brow Grains) ..	J. P. Beveridge, Esq., C.E.	SE(44)080105	900	45·0	49·01	211	177
d	||Marsden Reservoir ..	British Waterways ..	SE(44)046121	657	50·5	53·82	...	...
D	Slaithwaite (Blackmoorfoot) ..	J. P. Beveridge, Esq., C.E.	SE(44)096130	800	43·1	41·72	206	169
	Slaithwaite (Deanhead Reservoir)	J. P. Beveridge, Esq., C.E.	SE(44)039151	1007	...	55·11	...	...
D	HUDDERSFIELD (RAVENSKNOWLE)	Corporation ..	SE(44)163165	325	...	29·73	188	130
D	HUDDERSFIELD (OAKES) ..	S. Morris Bower, Esq.,						
		for M.O.	SE(44)113177	761	34·9	37·85	220	159
w	Moss Moor (Linsgreave) ..	Wakefield Corpn. W.W. ..	SD(34)986143	1264	52·3	57·88	...	...
D	Rishworth (Great Wolden Edge) ..	Wakefield Corpn. W.W. ..	SD(34)996156	1135	50·8	57·25	231	187
w	Rishworth (Long Clough) ..	Wakefield Corpn. W.W. ..	SE(44)017156	1010	52·8	57·73	...	...
w	Rishworth (Stott Hall) ..	Wakefield Corpn. W.W. ..	SE(44)032161	935	46·8	52·71	...	...
D	Rishworth Lodge ..	Wakefield Corpn. W.W. ..	SE(44)026165	950	...	53·64	216	180
w	Rishworth (Pike End) ..	Wakefield Corpn. W.W. ..	SE(44)017169	1225	48·3	55·88	...	...
D	Rishworth (Ringstone Res.) lower	Wakefield Corpn. W.W. ..	SE(44)048178	962	46·9	49·92	211	174
w	Soyland Moor (Greystones) ..	Wakefield Corpn. W.W. ..	SE(44)002179	1192	52·6	56·28	...	...
w	Soyland Moor (Waystone Drain)	Wakefield Corpn. W.W. ..	SD(34)998148	1200	53·9	60·78	...	...
w	Soyland Moor (Summit E.) ..	Wakefield Corpn. W.W. ..	SD(34)982179	1218	52·9	55·33	...	...
w	Soyland Moor (Baitings) ..	Wakefield Corpn. W.W. ..	SE(44)004190	943	51·4	52·47	...	...
D	Soyland Moor (Byron Edge) ..	C. Busfield, Esq., C.E. ..	SD(34)973192	1251	51·2	57·58	209	178
w	Soyland Moor (Manshead) ..	Wakefield Corpn. W.W. ..	SE(44)006198	1225	51·6	57·05	...	...
w	Soyland Moor (Turvin 1) ..	Wakefield Corpn. W.W. ..	SD(34)984197	1201	...	55·70	...	...
w	Soyland Moor (Turvin 2) ..	Wakefield Corpn. W.W. ..	SD(34)998214	996	...	51·55	...	...
D	Walsden (White Holme) ..	C. Busfield, Esq., C.E. ..	SD(34)975203	1240	...	54·37	207	176
D	§Walsden (Calf Lee) ..	Rochdale Corporation ..	SD(34)953201	945	...	56·07	201	179
D	Walsden (Warland Reservoir) ..	Rochdale Corporation ..	SD(34)954215	1250	48·6	61·03	195	176
D	Walsden (Warland Drain) ..	Rochdale Corporation ..	SD(34)971217	1250	51·9	65·79	195	181
d	Horbury (Town Hall) ..	E. Richley, Esq. ..	SE(44)297185	250	23·3	22·45	144	105
D	Wakefield (Sewage Works) ..	Yorkshire Ouse River Board	SE(44)346203	80	...	24·05	188	119
D	WAKEFIELD (Clarence Park) ..	Corporation ..	SE(44)327199	115	25·4	24·60	165	119
D	Brighouse (Lands Reservoir) ..	Engineer & Manager ..	SE(44)131205	612	...	35·74	180	142
d	Castleford (Cutsyke) ..	A. Quarumby, Esq. ..	SE(44)423241	100	...	24·74	160	107
D	Normanton Sewage Works ..	T. F. Copp, Esq., B.Sc. ..	SE(44)394241	53	...	23·94	159	111
w	Walsden (Ramsden Hill) ..	Rochdale Corporation ..	SD(34)917208	1326	52·0	67·14	...	...
D	Walsden (Ramsden Reservoir) ..	Rochdale Corporation ..	SD(34)915214	995	52·7	65·06	204	179
D	Todmorden (Gorpley Reservoir)	Borough Engineer ..	SD(34)907229	900	55·5	63·97	207	180
D	Todmorden (Fielden Hospital) ..	L. A. Crabtree, Esq. ..	SD(34)965244	650	48·4	50·32	212	171
d	Todmorden (Lower Laith) ..	D. A. Lord, Esq., F.R.Met.S.	SD(34)943244	500	49·3	50·11	...	...

|| Site unorthodox.

§ Turf wall round gauge.

DIVISION IX—YORKSHIRE—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957		
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
WEST RIDING—(contd.)					ft.	in.	in.		
8.—OUSE. Aire. Calder—(contd.)									
d	Halifax (Public Library)	.. ..	Librarian	SE(44)085250	625	34.3	34.23	...	...
D	Dewsbury (Mitchell Laithes Sew. Wks.)	.. ..	Manager	SE(44)252202	115	...	23.60	169	122
D	Dewsbury (Municipal Offices)	(+A)	Borough Engineer	SE(44)242222	225	...	23.00	172	119
d	Dewsbury (Crow Nest Park)	.. ..	Superintendent of Parks	SE(44)232214	300	...	23.55	...	123
D	Heckmondwike (The Bottoms)	.. ..	Spenborough U.D.C.	SE(44)220224	165	...	25.16	154	121
D	Batley (Staincliffe Reservoir)	.. ..	H. P. Joyce, Esq., C.E.	SE(44)229236	492	25.3	25.18	184	123
D	Ardsley (Jaw Hill Filters)	.. ..	Wakefield Corp'n. W.W.	SE(44)293233	315	25.8	24.78	168	119
D	Ardsley Reservoir (Upper)	.. ..	Wakefield Corp'n. W.W.	SE(44)287248	395	25.4	25.63	188	115
D	Halifax W.W. (Albert Reservoir)	.. ..	A. L. Gray, Esq., B.Sc.	SE(44)074256	795	35.3	39.27	208	162
D	Todmorden (Eastwood Sew. Wks.)	.. ..	Manager	SD(34)970260	368	...	52.00	207	174
D	Mytholmroyd (Byclough)	.. ..	R. Hayhurst, Esq.	SE(44)019265	450	...	41.37	212	173
D	Mytholmroyd (Redacre)	.. ..	C. H. Brock, Esq., C.E.	SE(44)008263	315	...	40.95	201	163
D	Halifax W.W. (Ramsden Wood)	.. ..	A. L. Gray, Esq., B.Sc.	SE(44)059271	815	38.3	41.60	211	168
D	§Halifax W.W. (Castle Carr Lodge)	.. ..	A. L. Gray, Esq., B.Sc.	SE(44)026297	1060	42.6	45.34	214	183
w	§Halifax W.W. (Gorple Res.)	No. 2	A. L. Gray, Esq., B.Sc.	SD(34)930301	1275	...	59.97	...	...
w	§Halifax W.W. (Coppay)	.. ..	A. L. Gray, Esq., B.Sc.	SD(34)957305	1135	...	54.87	...	...
w	§Halifax W.W. (Midgley Moor)	.. ..	A. L. Gray, Esq., B.Sc.	SE(44)016306	1350	44.3	48.64	...	...
w	§Halifax W.W. (Gorple Res.)	No. 3	A. L. Gray, Esq., B.Sc.	SD(34)918311	1160	...	56.67	...	...
w	§Halifax W.W. (Warley Moor)	.. ..	A. L. Gray, Esq., B.Sc.	SE(44)032312	1325	43.0	48.20	...	...
D	Halifax W.W. (Ogden)	.. ..	A. L. Gray, Esq., B.Sc.	SE(44)062306	990	...	41.49	212	162
w	Halifax W.W. (Ovenden Moor)	.. ..	A. L. Gray, Esq., B.Sc.	SE(44)049316	1375	41.8	49.94	...	...
D	§Halifax W.W. (Gorple Res.)	.. ..	A. L. Gray, Esq., B.Sc.	SD(34)944308	1028	...	61.50	225	183
w	Halifax W.W. (Widdop Res.)	No. 4	A. L. Gray, Esq., B.Sc.	SD(34)927327	1060	...	57.12	...	...
D	§Halifax W.W. (Widdop Res.)	No. 2	A. L. Gray, Esq., B.Sc.	SD(34)931331	1065	...	57.30	222	181
w	§Halifax W.W. (Widdop Res.)	No. 3	A. L. Gray, Esq., B.Sc.	SD(34)923331	1060	...	57.14	...	...
D	§Halifax W.W. (Walshaw Dean Lodge)	.. ..	A. L. Gray, Esq., B.Sc.	SD(34)962335	1040	...	57.14	220	184
w	§Halifax W.W. (Walshaw Dean)	No. 3	A. L. Gray, Esq., B.Sc.	SD(34)962344	1180	...	63.34	...	...
w	§Halifax W.W. (Widdop Res.)	No. 5	A. L. Gray, Esq., B.Sc.	SD(34)942348	1280	...	61.21	...	...
9.—OUSE. Aire. 504 sq. mi.									
D	PONTEFRAC (The King's School)	.. ..	Headmaster	SE(44)454213	255	23.3	24.47	188	115
D	Pontefract (Roall Waterworks)	.. ..	A. F. Richmond, Esq., C.E.	SE(44)568244	42	23.0	23.57	172	111
D	Goole (Sewage Pumping Station)	.. ..	Borough Engineer	SE(44)748250	10	...	23.52	159	122
D	Rothwell (Lemonroyd Sewage Works)	.. ..	Rothwell U.D.C.	SE(44)375282	64	...	24.87	176	118
D	Selby (Brayton Barff Waterworks)	.. ..	Waterworks Engineer	SE(44)585305	173	...	25.20	181	119
	Bradford (Brayshaw Reservoir)	.. ..	Waterworks Engineer	SE(44)122306	982	36.5	37.39	...	...
D	Bradford (Bowling Cemetery)	(+A)	City Surveyor	SE(44)174308	600	...	35.13	185	153
D	Bradford (Shearbridge Depot)	(+A)	City Surveyor	SE(44)152325	400	...	33.44	179	155
D	Bradford (Horton Park)	.. ..	City Surveyor	SE(44)146316	597	...	34.72	180	155
D	Bradford (Thornton Cemetery)	.. ..	City Surveyor	SE(44)088330	1003	...	37.57	206	153
D	BRADFORD (Lister Park)	.. ..	Corporation	SE(44)149352	439	33.9	32.26	194	146
D	Bradford (Thornton Moor Filters)	.. ..	Waterworks Engineer	SE(44)051334	190	44.3	49.96	210	172
D	Bradford (Stubden Reservoir)	.. ..	Waterworks Engineer	SE(44)057332	1071	44.9	51.53	214	172
M	Bradford (Nan Scar, Oxenhope)	.. ..	Waterworks Engineer	SE(44)037334	1101	...	52.13	...	...
M	Bradford (Stairs Top, Oxenhope)	.. ..	Waterworks Engineer	SE(44)004339	1360	...	58.12	...	...
D	Bradford (Leeming Reservoir)	.. ..	Waterworks Engineer	SE(44)040340	850	...	40.35	206	164
D	Bradford (Doe Park Reservoir)	.. ..	Waterworks Engineer	SE(44)077341	754	...	39.97	206	158
D	Bradford (Leeshaw Reservoir)	.. ..	Waterworks Engineer	SE(44)011351	875	47.3	52.80	231	182
M	Bradford (Chellow Dean Reservoir)	.. ..	Waterworks Engineer	SE(44)124345	645	34.5	35.00	...	...
D	Bradford (Chellow Heights Reservoir)	.. ..	Waterworks Engineer	SE(44)116352	848	...	35.67	196	159
D	Bradford (Hewenden Reservoir)	.. ..	Waterworks Engineer	SE(44)072355	707	...	38.89	209	159
D	Bradford (Heaton Reservoir)	.. ..	Waterworks Engineer	SE(44)145354	531	...	32.13	192	150
D	Leeds (Farnley Hall)	.. .. (+A)	City Engineer	SE(44)248323	405	...	27.56	184	126
	Leeds (Wortley Reservoir)	.. ..	K. L. Forster, Esq., C.E.	SE(44)267326	307	28.1	27.60	156	126

§ Turf wall round gauge.

DIVISION IX—YORKSHIRE—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957			
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more	
WEST RIDING—(contd.)					ft.	in.	in.			
9.—OUSE. Aire—(contd.)										
	Leeds (Knostrup)	..	..	K. L. Forster, Esq., C.E.	SE(44)324313	75	24.0	26.66	187	124
	Leeds (Woodhouse Moor)	..	..	K. L. Forster, Esq., C.E.	SE(44)291350	307	26.7	28.36	176	134
D	Seacroft (Leeds City Hospital)	..	..	Medical Superintendent	SE(44)349346	235	29.3	28.38	170	123
d	Leeds (Allerton Grange Rise)	..	..	E. J. Tibbs, Esq.	SE(44)305379	450	...	28.93	174	124
D	Leeds (Weetwood Filter Beds)	(+A)	..	City Engineer	SE(44)271371	328	27.5	26.06	189	121
D	Leeds (Roundhay Park)	(+A)	..	City Engineer	SE(44)330383	425	...	30.44	195	129
d	Haworth (Harbour Lodge)	..	..	G. E. V. Boldry, Esq., C.E.	SD(34)996353	1165	52.5	55.00	226	188
D	Haworth (Lower Laithe Res.)	(+A)	..	G. E. V. Boldry, Esq., C.E.	SE(44)015367	772	48.1	45.99	205	167
D	§Oakworth (Oldfield Filters)	..	..	G. E. V. Boldry, Esq., C.E.	SE(44)003379	978	...	46.01	210	175
M	§Oakworth (Keighley Moor)	..	..	G. E. V. Boldry, Esq., C.E.	SD(34)981390	1300	...	55.18	...	...
M	§Oakworth (Clough Hey)	..	..	G. E. V. Boldry, Esq., C.E.	SD(34)998394	1075	...	52.11	...	...
W	Oakworth (Newsholme Dean)	..	..	G. E. V. Boldry, Esq., C.E.	SE(44)019404	675	...	44.93	...	...
D	§Oakworth (Keighley Moor)	No. 2	..	G. E. V. Boldry, Esq., C.E.	SD(34)994408	1025	...	52.05	...	...
D	Rawdon (Sewage Works)	..	..	Aireborough U.D.C.	SE(44)213380	150	...	28.91	171	135
D	Rawdon (Micklefield House)	..	..	Aireborough U.D.C.	SE(44)207398	579	...	26.78	174	132
D	BINGLEY (St. Ives Research Station)	..	..	Director	SE(44)092389	610	...	34.95	192	150
D	§Bingley (Gilstead Filters)	..	..	Engineer, Bradford W.W.	SE(44)118393	572	...	33.47	196	156
D	Baildon (Weecher Reservoir)	..	..	Surveyor & W.W. Engineer	SE(44)136423	825	...	32.76	210	150
D	Hawskworth (Reva Reservoir)	..	..	Yeadon W.W. Co.	SE(44)153426	735	...	30.27	195	141
D	Adel (Lawns Wood Cemetery)	..	..	W. R. Pearson, Esq.	SE(44)267391	470	...	29.66	205	139
D	Keighley (Hard Ings Lane)	..	..	Chief Sanitary Inspector	SE(44)068421	304	35.7	33.70	209	139
M	Bingley (Sunnydale Res.)	..	..	Engineer, Bradford W.W.	SE(44)099432	825	33.1	34.89	...	...
d	Guiseley (Moor Top)	..	..	Aireborough U.D.C.	SE(44)192435	750	...	30.16	...	137
D	Salterforth (Barnoldswick Waterworks)	..	..	Barnoldswick U.D.C.	SD(34)880440	832	46.6	49.46	190	155
D	Earby (Sewage Works)	(+A)	..	Surveyor	SD(34)909472	426	38.0	41.84	196	156
D	Silsden Reservoir	..	..	Engineer, Bradford W.W.	SE(44)045476	560	31.2	34.09	188	156
M	Silsden (Cringles Reservoir Site)	..	..	Engineer, Bradford W.W.	SE(44)042491	715	31.3	34.63	...	...
D	Elslack (Stories Farm)	..	..	Barnoldswick U.D.C.	SD(34)937484	675	39.1	45.66	195	160
D	Skipton (Town Hall)	(+A)	..	K. B. Robinson, Esq.	SD(34)991518	367	33.5	37.79	190	152
D	Gargrave (Raybridge Hill)	..	..	British Waterways	SD(34)939549	459	34.2	48.80	194	180
d	Malham (Lee Gate)	..	..	British Waterways	SD(34)926645	1175	...	53.37	...	...
D	Settle (MALHAM TARN)	..	..	C. Promotion Field Studies	SD(34)894672	1297	...	61.73	222	188
10.—OUSE. Wharfe. 408 sq. mi.										
D	CAWOOD (Exp. Husbandry Farm)	..	..	Director	SE(44)561366	20	22.5	23.79	158	122
D	BRAMHAM (Headley Hall)	..	..	Leeds University	SE(44)441412	177	...	26.78	186	122
	Adel (Eccup, East)	..	..	K. L. Forster, Esq., C.E.	SE(44)309418	375	29.3	31.68	195	137
	Harewood (Arthington)	..	..	K. L. Forster, Esq., C.E.	SE(44)261452	139	...	29.74	190	132
D	Harewood House	..	..	The Earl of Harewood	SE(44)308442	300	29.7	31.89	177	126
D	Otley (Sewage Works)	..	..	J. A. A. Pratt, Esq., C.E.	SE(44)212461	172	28.5	28.40	174	126
D	ILKLEY (Spence's Garden)	..	..	Engineer & Surveyor	SE(44)113476	315	35.1	32.65	199	144
D	ASKHAM BRYAN	..	..	Yorkshire Inst. of Agriculture	SE(44)549469	90	24.5	25.91	179	124
	Leathley (Lindley Woods)	..	..	K. L. Forster, Esq., C.E.	SE(44)217486	312	31.6	32.10	201	145
D	Ilkley (March Ghyll Reservoir)	..	..	J. A. A. Pratt, Esq., C.E.	SE(44)123510	705	34.0	34.43	189	157
D	York (Bishopthorpe Road)	..	..	J. Terry & Sons, Ltd.	SE(44)599498	51	...	23.78	164	116
D	York (Acomb Landing)	..	..	York Waterworks Co.	SE(44)582526	40	22.6	25.31	174	122
D	Skipton (Counter Hill)	..	..	Engineer, Bradford W.W.	SE(44)050500	951	30.2	32.37	...	...
D	Skipton (Chelker Reservoir)	..	..	Engineer, Bradford W.W.	SE(44)051517	730	32.9	33.78	201	159
d	Beamsley (Overdale)	..	..	Mrs. A. Downs	SE(44)077529	420	35.3	33.17	...	138
	§Fewston (Timble Ings)	..	..	K. L. Forster, Esq., C.E.	SE(44)156526	912	40.5	38.24	207	170
	§Fewston (Swinsty, East)	..	..	K. L. Forster, Esq., C.E.	SE(44)197525	460	34.4	31.35	189	129
	§Fewston, North	..	..	K. L. Forster, Esq., C.E.	SE(44)187543	525	35.4	33.51	208	141
	§Fewston (Blubberhouses)	..	..	K. L. Forster, Esq., C.E.	SE(44)166553	575	37.1	38.35	184	155
D	Bolton Abbey (Estate Office)	..	..	E. E. Hey, Esq.	SE(44)072540	368	36.3	37.44	200	147
D	§Barden Reservoir	..	..	Engineer, Bradford W.W.	SE(44)035563	746	41.8	49.91	225	183

§ Turf wall round gauge.

DIVISION IX—YORKSHIRE—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957		
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
WEST RIDING—(contd.)					ft.	in.	in.		
10.—OUSE. Wharfe—(contd.)									
M	Upper Barden Reservoir .. ..	..	Engineer, Bradford W.W. ..	SE(44)016576	1164	...	54.58	...	...
	§Rocking Moor (Spittle Ings) .. ..	..	K. L. Forster, Esq., C.E. ..	SE(44)135567	967	43.3	43.09	151	144
	§Thruscross (Lane Head) .. ..	..	K. L. Forster, Esq., C.E. ..	SE(44)129588	950	41.7	41.78	149	145
	§Burnsall (Thorpe Fell) .. ..	..	Engineer, Bradford W.W. ..	SE(44)007597	1649	...	57.21	...	...
	Burnsall (Sandbed Beck) .. ..	..	Engineer, Bradford W.W. ..	SE(44)019614	676	41.0	48.92	...	...
	§Braithwaite Moor (High House) ..	..	K. L. Forster, Esq., C.E. ..	SE(44)136610	1068	43.1	42.35	175	147
D	Grimwith Reservoir .. ..	..	Engineer, Bradford W.W. ..	SE(44)062642	884	43.9	44.78	211	169
M	Grimwith (Trunla Hill) .. ..	..	Engineer, Bradford W.W. ..	SE(44)069657	1201	46.5	51.14	...	...
D	Kettlewell .. ..	..	Yorkshire Ouse River Board	SD(34)971723	694	...	57.02	223	180
D	Litton (Manor Cottage) .. ..	..	G. S. Sweeting, Esq. ..	SD(34)908741	825	...	61.84	231	184
D	Oughtershaw .. ..	..	Mr. T. White	SD(34)869814	1117	...	70.46	228	195
11.—OUSE. Nidd. 254 sq. mi.									
d	Wetherby (Stockeld Park) .. ..	..	C. E. Johnson, Esq. ..	SE(44)368492	200	25.8	28.39	...	...
D	Tockwith School .. ..	..	W. Kirk, Esq.*	SE(44)468524	77	...	26.87	178	125
	§Harrogate W.W. (Ling Cottage) ..	..	Water Engineer, Harrogate	SE(44)228521	763	33.4	34.20	...	...
	Harrogate W.W. (Broad Dubb) ..	..	Water Engineer, Harrogate	SE(44)219530	725	34.1	35.12	...	...
	Harrogate W.W. (Cobblers Cottage)	..	Water Engineer, Harrogate	SE(44)239525	730	33.5	35.00	...	...
D	Harrogate W.W. (Scargill Res.) ..	..	Water Engineer, Harrogate	SE(44)232537	646	34.8	34.92	236	144
D	§Harrogate W.W. (Beaverdyke Res.)	..	Water Engineer, Harrogate	SE(44)229547	575	34.1	36.09	243	154
	Harrogate (John O'Gaunt's) .. ..	..	Water Engineer, Harrogate	SE(44)215544	600	33.8	35.74	...	...
	§Harrogate W.W. (Long Stoop) ..	..	Water Engineer, Harrogate	SE(44)212552	700	33.8	36.74	...	...
	Harrogate W.W. (Knabb's Moor) ..	..	Water Engineer, Harrogate	SE(44)237557	700	32.5	35.59	...	...
D	Harrogate (Harlow Hill Reservoir) ..	..	Water Engineer, Harrogate	SE(44)289542	549	...	30.12	183	136
D	Harrogate (Irongatebridge Reservoir)	..	Water Engineer, Harrogate	SE(44)287548	455	29.3	29.53	189	134
D	Knaresborough (Water Tower) ..	..	Water Engineer, Harrogate	SE(44)348567	240	27.1	28.57	175	126
D	HARROGATE (Bilton Sewage Works) ..	..	Corporation	SE(44)303579	208	28.5	29.64	195	138
D	Birstwith Hall .. ..	..	Sir Cecil Aykroyd, Bart. ..	SE(44)242583	325	34.4	33.66	170	156
M	Ramsgill (Holme House, Gouthwaite)	..	Engineer, Bradford W.W. ..	SE(44)128698	464	39.9	38.68	...	...
D	Ramsgill (Raygill House) .. ..	..	Engineer, Bradford W.W. ..	SE(44)109704	925	...	46.30	189	175
D	Ramsgill .. ..	..	Engineer, Bradford W.W. ..	SE(44)120709	450	...	42.78	200	169
M	Nidderdale (East Gill Head) .. ..	..	Engineer, Bradford W.W. ..	SE(44)035741	1710	57.6	58.39	...	...
M	§Nidderdale (Rain Stang) .. ..	..	Engineer, Bradford W.W. ..	SE(44)079758	1470	...	55.47	...	...
M	Nidderdale (New Houses) .. ..	..	Engineer, Bradford W.W. ..	SE(44)094768	755	45.8	44.59	...	...
D	Nidderdale (West Houses) .. ..	..	Engineer, Bradford W.W. ..	SE(44)043766	1165	52.5	59.01	230	190
D	Scar House Reservoir .. ..	..	Engineer, Bradford W.W. ..	SE(44)065766	1085	...	52.10	225	176
12.—OUSE. Ure. 110 sq. mi.									
D	Burton Leonard .. ..	..	W. Clough, Esq.	SE(44)330638	275	...	27.48	179	133
	Pateley Bridge (Skell Beck) .. ..	..	Water Engineer, Harrogate	SE(44)188688	900	...	37.87	...	...
	§Dallow Moor (Harper Hill) .. ..	..	K. L. Forster, Esq., C.E. ..	SE(44)197702	819	...	36.68	147	137
	§Kirkby Malzeard (Drovers' Inn) ..	..	K. L. Forster, Esq., C.E. ..	SE(44)213722	576	36.0	35.47	204	155
	§Kirkby Malzeard (Hawsett) .. ..	..	K. L. Forster, Esq., C.E. ..	SE(44)184729	820	37.1	35.05	136	134
w	§Kirkby Malzeard (Hambleton Hill)	..	K. L. Forster, Esq., C.E. ..	SE(44)160730	1106	39.7	38.97	...	...
	§Kirkby Malzeard (Bagwith Brae) ..	..	K. L. Forster, Esq., C.E. ..	SE(44)195747	703	32.9	37.39	184	156
w	§Kirkby M. (Stone & Ears Wham) ..	..	K. L. Forster, Esq., C.E. ..	SE(44)168751	1118	39.7	38.67	...	...
EAST RIDING. (Area, 1,176 sq. mi.)									
1.—OUSE. Left Bank Tributaries. 82 sq. mi.									
D	Riccall .. ..	..	Yorkshire Ouse River Board	SE(44)608373	18	...	24.68	171	124
D	York (The Retreat) .. ..	..	Secretary	SE(44)615508	60	...	27.33	176	121

* Per Yorkshire Ouse River Board.

§ Turf wall round gauge.

DIVISION IX—YORKSHIRE—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with ·01 in. or more	Days with ·04 in. or more
EAST RIDING—(contd.)				ft.	in.	in.		
2.—OUSE. Derwent. 248 sq. mi.								
D	Warter	Yorkshire Ouse River Board	SE(44)862502	290	...	30·43	185	144
D	Birdsall Gardens	Mr. J. Anderson	SE(44)815648	308	29·2	31·24	195	146
D	Rillington (Scampston Hall)	Mr. E. W. Hodgson*	SE(44)864757	102	27·1	26·50	178	139
D	Ganton (Golf Club)	Secretary	SE(44)983780	100	...	26·17	175	140
D	Ganton (Ganton Hall)	E. W. Wrigley, Esq.	SE(44)995769	250	27·5	26·04	182	135
3.—HUMBER. Left Bank Tributaries. 675 sq. mi.								
D	Easington (Primary School)	T. J. Boon, Esq.**	TA(54)399194	30	...	24·21	200	130
D	Hessle (Sandford)	Lieut. C. S. Sherwood, R.N.V.R.	TA(54)026262	90	...	25·99	188	126
D	HULL (Pearson Park)	General Superintendent	TA(54)084302	8	25·4	24·94	166	121
D	Hull (Springhead)	Hull Waterworks	TA(54)042294	14	25·5	28·26	182	125
D	Anlaby (Beverley Rd.)	G. G. Leaf, Esq.	TA(54)032289	36	...	27·17	159	130
D	Burton Pidsea (The Nurseries)	C. Bromby, Esq.	TA(54)246314	23	...	23·85	191	128
D	Cottingham (Dunswell Pumping Stn.)	Hull Waterworks	TA(54)069350	6	...	24·78	185	127
D	Holme-on-Spalding Moor (Parkgate)	G. Allan, Esq.	SE(44)813382	30	23·6	26·19	176	128
D	Beverley (Lairgate)	Borough Engineer	TA(54)033393	34	...	25·02	187	129
D	Beverley (Hull Bridge)	Hull & E. Yorks River Bd.	TA(54)054417	11	24·9	27·29	175	152
D	Market Weighton (Dalton Holme)	W. F. Cullen, Esq.	SE(44)963453	120	27·3	30·88	174	145
d	Brandesburton Hall (Lodge)	Physician Superintendent	TA(54)112477	27	...	26·66	...	...
d	Brandesburton (Hempholme Lock)	Hull & E. Yorks River Bd.	TA(54)080498	11	24·6	26·50	172	138
D	Hutton Cranswick (The Green)	C. McCall, Esq.**	TA(54)023522	66	25·8	27·04	178	136
D	DRIFFIELD Airfield (+A)	Meteorological Office	TA(54)004565	69	25·9	26·44	178	131
D	Wetwang (Primary School)	E. W. M. Waite, Esq.**	SE(44)933589	221	...	29·56	185	138
d	Lowthorpe (Woodman's Cottage)	K. Kettlewell, Esq.	TA(54)084608	63	26·5	25·36	183	135
d	Langtoft School	A. N. Colley, Esq.	TA(54)009670	250	27·3	26·49	...	...
4.—EAST COAST STREAMS. 171 sq. mi.								
D	Hornsea (Town Hall)	Hornsea U.D.C.	TA(54)207482	12	...	24·34	169	130
D	Burton Agnes (Pumping Station)	H. South, Esq., C.E.	TA(54)110634	52	...	26·91	198	141
D	§BRIDLINGTON (Mill Lane)	H. South, Esq., C.E.	TA(54)173686	157	...	25·40	185	139
D	HIGH MOWTHORPE	Farm Director	SE(44)885688	574	...	30·27	204	151
D	Filey (Rosedale Reservoir)	Water Engineer	TA(54)114766	197	...	26·69	179	125
D	Filey (Pumping Station)	Water Engineer	TA(54)114807	123	...	24·38	174	132
D	FILEY	Water Engineer	TA(54)113801	122	...	24·88	184	123
NORTH RIDING. (Area, 2,155 sq. mi.)								
1.—OUSE. Ure. 273 sq. mi.								
M	Masham Moor (Arnagill Beck West)	Water Engineer, Harrogate	SE(44)145746	1210	41·6	42·81	...	...
M	Masham Moor (Arnagill Beck East)	Water Engineer, Harrogate	SE(44)162756	1150	39·5	40·97	...	...
M	Masham Moor (Low Ash Head)	Water Engineer, Harrogate	SE(44)140763	845	40·7	45·15	...	...
M	Masham Moor (Agill Head)	Water Engineer, Harrogate	SE(44)114766	1380	43·4	46·25	...	...
D	Masham Moor (Roundhill Reservoir)	Water Engineer, Harrogate	SE(44)151777	743	37·6	38·86	205	160
D	Roundhill Reservoir No. 2	Water Engineer, Harrogate	SE(44)150776	925	38·8	39·15	199	161
	§Masham Moor (High Sour Mire)	K. L. Forster, Esq., C.E.	SE(44)143790	884	...	38·47	...	...
	§Masham Moor (Leighton Reservoir)	K. L. Forster, Esq., C.E.	SE(44)161790	634	35·9	37·49	202	144
	§Masham Moor (Towler Hill)	K. L. Forster, Esq., C.E.	SE(44)154798	820	36·7	38·62	201	149
	§Masham Moor (Breary Bank)	K. L. Forster, Esq., C.E.	SE(44)158802	600	36·8	38·05	201	149
	§Masham Moor (Healey Pasture)	K. L. Forster, Esq., C.E.	SE(44)157808	620	36·1	38·37	201	152
D	Bishopdale (Longridge)	Yorkshire Ouse River Board	SD(34)960832	810	...	58·17	190	172
D	West Burton (Flanders Hall)	Mrs. Johnson*	SE(44)019872	548	36·3	37·11	199	158

§ Turf wall round gauge.

* Per Yorkshire Ouse River Board.

** Per Hull & East Yorks River Board.

DIVISION IX—YORKSHIRE—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
NORTH RIDING—(contd.)				ft.	in.	in.		
1.—OUSE. Ure—(contd.)								
D	Hawes (Sewage Works)	.. .. Yorkshire Ouse River Board	SD(34)874902	745	...	56.49	210	173
D	Leyburn (Spennithorne)	.. .. F. M. Curtis, Esq., F.R.Met.S.	SE(44)137887	358	29.9	29.70	204	130
D	Leyburn (Bolton Hall)	.. .. Head Gardener	SE(44)075897	420	32.6	32.96	187	147
D	Askrigg (Yorebridge Grammar School)	F. E. Chevins, Esq. ...	SD(34)945907	670	...	40.96	197	159
D	Bainbridge	.. .. Yorkshire Ouse River Board	SD(34)934902	710	...	46.92	190	164
d	Hawes Junction (Moorland Cottage)	.. Mr. W. Ireland	SD(34)807923	1125	...	71.51	208	189
2.—OUSE. Swale. 569 sq. mi.								
D	DISHFORTH Airfield	.. .. (+A) Meteorological Office ..	SE(44)379723	106	22.7	24.74	184	119
d	Coxwold (The Old Hall)	.. .. L. Geipel, Esq.	SE(44)534773	260	26.1	26.83	...	...
D	Thirsk (Topcliffe Airfield)	.. .. (+A) Meteorological Office ..	SE(44)405790	81	...	25.03	...	...
D	Thirsk (Ashton House)	.. .. Mrs. F. E. Walker	SE(44)432808	112	...	25.43	194	130
d	Thirsk (Sowerby)	.. .. Mrs. M. Brown	SE(44)433811	110	24.7	26.33	175	136
D	Thirsk (South Villa)	.. .. B. Foggitt, Esq.	SE(44)429818	115	24.7	26.71	169	124
	Felixkirk (Thirby)	.. .. A. J. Walker, Esq.	SE(44)490840	315	27.1	29.00	...	...
D	Felixkirk (Mount St. John)	.. .. (+A) A. J. Walker, Esq.	SE(44)474848	540	26.5	27.89	183	139
	Boltby, East	.. .. A. J. Walker, Esq.	SE(44)491866	459	26.2	30.83	...	...
d	Maunby Hall	.. .. Col. A. Hill-Walker, V.C. ...	SE(44)355883	90	23.9	28.83	...	...
D	Scruton (Post Office)	.. .. C. Wainscoat, Esq.	SE(44)300923	110	23.8	25.37	194	116
D	Tunstall (Craggs Lane Farm)	.. .. E. B. Potts, Esq.	SE(44)199945	550	...	28.50	160	129
	Mucker (Butter Tubs)	.. .. C.E. Dept. Leeds University	SD(34)869959	1760	...	57.95	...	...
D	Swaledale (Rowleth End)	.. .. S. H. Clarke, Esq.	SD(34)971975	700	...	44.09	226	180
D	Swaledale (Gunnarside Lodge)	.. .. The Rt. Hon. Lord Peel ..	SD(34)934982	985	47.8	48.04	212	175
D	Osmotherley (Filter Station)	.. .. Northallerton & Dist. W.Bd.	SE(44)458968	482	...	31.53	186	144
	Osmotherley (Oakdale W.W.)	.. .. Northallerton & Dist. W.Bd.	SE(44)466966	600	28.3	32.10	...	...
D	Grinton Lodge	.. .. (+A) Yorkshire Ouse River Board	SE(44)049976	865	...	39.64	211	164
D	East Harlsey (Harlsey Hall)	.. .. Late Mrs. Constantine ..	SE(44)428996	370	...	30.15	178	129
D	Swaledale (Keld)	.. .. Yorkshire Ouse River Board	NY(35)893001	1040	...	54.14	226	189
D	Richmond (Green Howard Road)	(+A) Borough Surveyor*	NZ(45)172016	605	...	31.43	201	136
d	Arkengarthdale	.. .. Yorkshire Ouse River Board	NZ(45)001029	926	...	45.89	...	147
3.—OUSE. Left Bank Tributaries. 153 sq. mi.								
D	YORK (Museum)	.. .. Yorks. Phil. Soc. (Dr. Collinge)	SE(44)598522	57	24.3	25.71	177	126
4.—OUSE. Derwent. 509 sq. mi.								
D	Easingwold	.. .. Yorkshire Ouse River Board	SE(44)528693	95	...	25.60	173	127
D	Wellburn (Castle Howard Fm. Sch.)	.. .. Yorkshire Ouse River Board	SE(44)736674	110	...	29.88	176	134
D	AMPLEFORTH	.. .. (+A) Rev. M. R. Everest ..	SE(44)598789	313	...	30.04	193	140
D	Oswaldkirk (Leysthorpe Hall)	.. .. Major G. B. Foster	SE(44)636789	231	...	30.35	186	140
d	Nunnington Hall Gardens	.. .. P. J. B. Clive, Esq. ...	SE(44)670794	110	...	26.71	...	...
D	Pickering (Porters Headland)	.. .. J. Randall, Esq.	SE(44)795843	143	...	25.72	197	136
d	Wykeham Nursery	.. .. Forestry Commission ..	SE(44)948861	475	...	27.71	...	...
D	Seamer (Irtton Pumping Station)	.. .. H. V. Overfield, Esq., C.E.	TA(54)005841	94	28.7	26.49	193	146
D	Scarborough (Osgodby)	.. .. H. V. Overfield, Esq., C.E.	TA(54)056840	166	26.1	23.32	162	128
D	Kirkby Moorside (Ravenswyke)	.. .. Lt.-Col. V. H. Holt, M.C., J.P.	SE(44)706873	270	27.2	28.64	172	142
D	Hutton-le-Hole (Elphield)	.. .. R. W. Crosland, Esq. ..	SE(44)705900	340	...	33.12	209	161
D	Bilsdale (St. John's Church)	.. .. Yorkshire Ouse River Board	SE(44)574946	435	...	35.76	198	154
D	SILPHO MOOR	.. .. Forestry Commission ..	SE(44)957946	662	...	30.47	224	154
D	Farndale (Vicarage)	.. .. (+A) Hull Waterworks	SE(44)672975	495	...	33.84	190	153
D	Rosedale 17A	.. .. Hull Waterworks	SE(44)708978	746	...	34.04	194	160
M	Farndale 13	.. .. Hull Waterworks	SE(44)674997	1055	...	38.74	...	...
M	§Rosedale 18	.. .. Hull Waterworks	NZ(45)704007	1337	...	39.94	...	...
M	Rosedale 14A	.. .. Hull Waterworks	NZ(45)678018	1339	...	38.15	...	...

* Per Yorkshire Ouse River Board.

DIVISION IX—YORKSHIRE—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
NORTH RIDING—(contd.)				ft.	in.	in.		
5.—ESK & C. 278 sq. mi.								
D	SCARBOROUGH	(+A) Medical Officer of Health ..	TA(54)044884	118	25.8	24.29	179	142
D	Scarborough (Scalby)	Capt. Sir William Wordsworth	TA(54)005900	210	...	25.40	182	136
D	Cloughton (Old Mill)	Yorkshire Ouse River Board	TA(54)010936	150	...	28.12	200	149
W	Goathland (Hydro)	E. N. Burn, Esq.	NZ(45)835012	450	...	30.77	...	...
D	Westerdale	Engineer & Surveyor	NZ(45)664052	760	...	33.38	191	142
d	Danby Lodge	Viscount Downe*	NZ(45)717084	399	...	31.42	...	...
D	WHITBY (Pannett Park)	Park Superintendent	NZ(45)895109	135	...	23.81	176	134
D	Mulgrave Castle	Yorkshire Ouse River Board	NZ(45)845126	410	...	25.93	182	134
D	Guisborough (Lockwood Reservoir)	Cleveland Water Co.	NZ(45)668141	632	33.0	27.91	218	153
D	Guisborough (Pinchinthorpe House)	H. G. W. Debenham, Esq.	NZ(45)580149	340	...	28.70	176	145
D	Guisborough (Grammar School)	Headmaster	NZ(45)616161	330	...	25.84	196	138
D	Guisborough (Waterworks)	Guisborough U.D.C.	NZ(45)638155	600	...	25.50	166	134
D	Saltburn (North Skelton Mine)	Dorman, Long & Co., Ltd.	NZ(45)675182	304	...	25.53	175	132
D	REDCAR	Town Clerk	NZ(45)599249	25	24.2	21.87	172	118
6.—TEES. 373 sq. mi.								
D	Ingleby Greenhow	Mrs. Diana Marrell	NZ(45)585065	500	...	28.89	178	146
d	Kildale Hall	Late Mrs. R. B. Turton ..	NZ(45)611095	600	35.5	33.49	170	148
D	Crathorne Hall Gardens	Maj. Sir Thomas Dugdale	NZ(45)444087	185	25.0	24.56	173	128
D	Barningham Park	Sir Frederick Milbank, Bart.	NZ(45)092099	750	35.7	39.18	205	146
d	Yarm (Worsall Hall)	Major H. K. D. Evans	NZ(45)394101	60	...	23.35	...	...
D	Nunthorpe (The Box)	G. D. Cochrane, Esq.	NZ(45)538149	287	25.2	24.59	182	128
D	Middlesbrough (Albert Park) ..	H. C. Hildyard, Esq.	NZ(45)494191	30	23.7	20.38	165	123
D	Middlesbrough (South Bank) ..	(+A) N. C. Harrison, Esq., C.E.	NZ(45)543198	41	...	22.16	161	122
D	Lartington Filters	T. S. R. Winter, Esq., C.E.	NZ(45)012180	735	32.1	32.28	202	141
	Baldersdale (Blackton Reservoir)	T. S. R. Winter, Esq., C.E.	NY(35)930182	937	40.9	42.33	...	...
	Baldersdale (Balderhead)	T. S. R. Winter, Esq., C.E.	NY(35)886178	1360	45.7	55.30	...	...
D	Baldersdale (Hury Res.) old g. site	T. S. R. Winter, Esq., C.E.	NY(35)966192	856	36.0	37.92	227	163
D	Baldersdale (Hury Res.) new g. site	T. S. R. Winter, Esq., C.E.	NY(35)967192	862	37.3	36.37	227	156
	Lunedale (Dow Crag)	T. S. R. Winter, Esq., C.E.	NY(35)838192	1720	57.6	61.00	...	...
	Lunedale (Lunehead)	T. S. R. Winter, Esq., C.E.	NY(35)850215	1450	55.0	57.40	...	...
	Lunedale (Selset)	T. S. R. Winter, Esq., C.E.	NY(35)918217	924	40.3	41.94	...	...
D	Lunedale (Grassholme Reservoir)	T. S. R. Winter, Esq., C.E.	NY(35)946224	936	38.6	40.69	208	162
	Lunedale (Keekham)	T. S. R. Winter, Esq., C.E.	NY(35)832222	1660	62.1	71.50	...	...
	Lunedale (Hargill)	T. S. R. Winter, Esq., C.E.	NY(35)880223	1320	52.6	56.90	...	...

DIVISION X—NORTHERN COUNTIES

DURHAM. (Area, 1,011 sq. mi.)

1.—TEES & C. 396 sq. mi.							
D Darlington (South Park)	A. Peak, Esq.	NZ(45)285135	100	27.1	23.91	181	128
D Darlington (Waterworks)	(+A) Borough Surveyor	NZ(45)258139	161	...	22.79	177	118
D Darlington (Broken Scar)	T. S. R. Winter, Esq., C.E.	NZ(45)256141	158	26.2	23.08	164	120
D Darlington (Coniscliffe Road) ..	Wear & Tees River Board ..	NZ(45)280141	173	...	23.54	158	122
D Darlington (Fighting Cocks Reservoir)	T. S. R. Winter, Esq., C.E.	NZ(45)342138	171	25.2	22.34	177	116
D MIDDLETON ST. GEORGE	(+A) Meteorological Office ..	NZ(45)376132	114	...	23.40	176	109
Egglescliffe (Cranbourne)	Gibbons Bros. Ltd.	NZ(45)419133	93	24.0	24.76	...	...
D Barnard Castle (Bowes Museum)	T. Wake, Esq.	NZ(45)055166	500	30.4	30.67	201	139
D Long Newton Reservoir	T. S. R. Winter, Esq., C.E.	NZ(45)362164	184	25.5	23.80	179	123
d Stockton-on-Tees (Ropner Park) ..	Park Curator	NZ(45)434182	61	22.9	21.94	...	...

* Per Yorkshire Ouse River Board.

DIVISION X—NORTHERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with -01 in. or more	Days with -04 in. or more
DURHAM—(contd.)				ft.	in.	in.		
1.—TEES & C.—(contd.)								
D	Stockton-on-Tees (Billingham)	(+A) Imperial Chem. Indust., Ltd.	NZ(45)461224	35	23·3	20·83	169	117
d	Staindrop (Raby Castle)	.. .. Lord Barnard, C.M.G., M.C.	NZ(45)128222	450	27·6	28·48	178	134
d	Eggleston (Wood Hill)	.. .. E. A. Smith, Esq.	NZ(45)028230	1000	34·2	34·30	...	...
d	Shildon (Eden Grange)	.. .. J. T. Petty, Esq.	NZ(45)242254	384	...	25·74	...	123
D	Middleton-in-Teesdale (Newbiggin)	.. .. Mrs. Coggins	NY(35)915276	1000	44·2	40·94	211	167
D	Forest-in-Teesdale	.. .. (+A) Postmistress, for M.O.	NY(35)872295	1250	...	53·08	262	191
D	Embleton (Crookfoot Reservoir)	.. .. J. Clough, Esq., B.Sc.	NZ(45)431309	293	25·4	22·30	194	123
D	WEST HARTLEPOOL (The Clock)	.. .. H. Lamb, Esq.	NZ(45)510327	30	...	20·63	171	111
D	West Hartlepool (Waterworks)	.. .. J. Clough, Esq., B.Sc.	NZ(45)509334	35	24·7	21·26	173	122
D	West Hartlepool (Secondary School)	.. .. J. J. Carey, Esq.	NZ(45)507336	62	...	22·24	180	124
D	Hurworth Burn Reservoir	.. .. J. Clough, Esq., B.Sc.	NZ(45)409333	357	26·5	22·09	178	120
D	Hartlepool (Hart Reservoir)	.. .. J. Clough, Esq., B.Sc.	NZ(45)483343	172	...	20·74	198	116
D	Shotton (New Winning Pumping Stn.)	Sunderland & S. Shields W.Co.	NZ(45)407383	402	29·4	25·34	189	131
D	Easington (Mill Hill Reservoir)	.. .. Sunderland & S. Shields W.Co.	NZ(45)413427	521	...	24·15	177	124
D	Seaham (Dalton Pumping Station)	.. .. Sunderland & S. Shields W.Co.	NZ(45)409471	345	27·0	22·33	169	127
2.—WEAR. 464 sq. mi.								
D	Wolsingham (Shull)	.. .. Mrs. W. A. Mounsey	NZ(45)091333	600	31·5	30·75	196	146
d	Stanhope (Parson Byers Quarry)	.. .. Dorman, Long & Co., Ltd.	NY(35)997376	860	31·7	29·55	...	124
	Burnhope (Grass Meres)	.. .. A. C. Wildsmith, Esq., C.E.	NY(35)825372	1850	59·1	59·15	...	...
	Burnhope (Lodgegill Mine)	.. .. A. C. Wildsmith, Esq., C.E.	NY(35)803375	1950	...	66·85	...	...
D	Burnhope Reservoir	.. .. A. C. Wildsmith, Esq., C.E.	NY(35)850391	1160	...	48·74	219	170
	Cowshill (Wellheads Hush)	.. .. A. C. Wildsmith, Esq., C.E.	NY(35)826404	1690	52·7	54·75	...	...
D	Durham (HOUGHALL Hort. Station)	.. .. Director of Agriculture	NZ(45)277405	160	26·4	22·75	170	118
D	DURHAM (University Observatory)(+A)	.. .. Director	NZ(45)264416	336	24·6	21·64	169	113
d	Weardale W.W. (Tunstall Reservoir)	.. .. A. C. Wildsmith, Esq., C.E.	NZ(45)063408	724	32·4	32·34	...	142
D	USHAW COLLEGE	.. .. President	NZ(45)219436	594	28·2	25·84	165	120
	Weardale W.W. (Waskerley 6)	.. .. A. C. Wildsmith, Esq., C.E.	NZ(45)042430	1229	...	33·15	...	...
	Weardale W.W. (Waskerley)	.. .. A. C. Wildsmith, Esq., C.E.	NZ(45)004433	1433	...	34·36	...	...
D	Weardale W.W. (Waskerley)	.. .. A. C. Wildsmith, Esq., C.E.	NZ(45)022444	1179	33·1	33·09	215	148
D	Lanchester (Craigmore)	.. .. Basil Sadler, Esq.	NZ(45)166471	400	28·9	27·86	178	123
D	§Consett (Crockhall Sewage Works)	.. .. E. Simpkin, Esq., C.E.	NZ(45)125505	700	...	27·97	168	126
d	South Moor (Colliery Office)	.. .. Basil Sadler, Esq.	NZ(45)190516	616	28·6	24·60	...	...
D	Ryhope (Pumping Station)	.. .. Sunderland & S. Shields W.Co.	NZ(45)404524	228	25·4	20·96	166	121
D	Sunderland (Thorneholme)	.. .. Medical Officer of Health	NZ(45)392561	130	25·6	22·51	172	128
3.—TYNE. Lower. 151 sq. mi.								
D	Hunstanworth (Presser Villa)	.. .. A. C. Wildsmith, Esq., C.E.	NY(35)959478	1301	...	30·31	196	142
D	Weardale W.W. (Hisehope Reservoir)	.. .. A. C. Wildsmith, Esq., C.E.	NZ(45)023462	1450	34·5	28·56	206	130
D	Weardale W.W. (Smiddy Shaw)	.. .. A. C. Wildsmith, Esq., C.E.	NZ(45)039462	1128	34·1	30·12	197	139
M	Edmondbyers Common	.. .. Sunderland & S. Shields W.Co.	NY(35)971459	1540	...	36·68	...	...
M	Edmondbyers (Feldon Burn)	.. .. Sunderland & S. Shields W.Co.	NY(35)999461	1230	...	33·41	...	...
M	Edmondbyers (Harehope Burn)	.. .. Sunderland & S. Shields W.Co.	NZ(45)011482	970	...	31·14	...	...
M	Hunstanworth (Nookton Burn)	.. .. Sunderland & S. Shields W.Co.	NY(35)909465	1360	...	41·55	...	...
M	Hunstanworth (Little Nookton)	.. .. Sunderland & S. Shields W.Co.	NY(35)931466	1290	...	37·64	...	...
D	Hunstanworth (Belmount)	.. .. Sunderland & S. Shields W.Co.	NY(35)972477	1250	...	32·67	198	151
D	Hunstanworth (Cross Hill)	.. .. Sunderland & S. Shields W.Co.	NY(35)942483	1160	...	33·25	199	144
d	Edmondbyers Farm	.. .. Sunderland & S. Shields W.Co.	NZ(45)016542	850	...	28·12	185	133
d	Edmondbyers (Ruffside)	.. .. Sunderland & S. Shields W.Co.	NZ(35)989518	730	...	28·67	...	...
d	Edmondbyers (Ridding)	.. .. Sunderland & S. Shields W.Co.	NZ(45)013521	680	...	25·73	...	...
d	Hunstanworth (Buckshott)	.. .. Sunderland & S. Shields W.Co.	NY(35)973498	960	...	30·13	...	...
D	Muggleswick	.. .. Sunderland & S. Shields W.Co.	NZ(45)047500	700	...	27·57	187	125
D	Westwood (Sewage Works)	.. .. E. Simpkin, Esq., C.E.	NZ(45)096549	255	27·8	26·92	173	122

§ Turf wall round gauge.

DIVISION X—NORTHERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
DURHAM—(contd.)				<i>ft.</i>	<i>in.</i>	<i>in.</i>		
3.—TYNE. Lower—(contd.)								
D	Rowlands Gill (CHOPWELLWOOD)	.. Forestry Commission ..	NZ(45)136580	446	28.7	26.81	189	133
D	GATESHEAD	.. Medical Officer of Health ..	NZ(45)268604	509	...	25.05	176	120
D	Felling-on-Tyne (Sewage Works)	.. F. Gill, Esq. ..	NZ(45)311603	175	...	23.03	175	123
D	Sunderland (Cleaton Pumping Stn.)	Sunderland & S. Shields W.Co.	NZ(45)387635	216	24.4	21.74	185	117
D	South Shields (Bents Park)	.. Medical Officer of Health ..	NZ(45)372672	36	24.2	23.15	169	120
D	South Shields (South Pier Works)	.. Tyne Improvement Commis.	NZ(45)373678	17	...	21.84	158	119
NORTHUMBERLAND. (Area, 2,105 sq. mi.)								
1.—EDEN. 20 sq. mi.								
d	Lanpert	.. Cumberland River Board ..	NY(35)683745	780	...	41.13	...	...
2.—SOUTH TYNE. 232 sq. mi.								
D	Allenheads	.. T. S. Foggett, Esq. ..	NY(35)860453	1350	48.3	43.80	210	170
D	Haydon Bridge (Shaftoe Trust Sch.)	.. Headmaster ..	NY(35)844639	240	...	25.95	187	131
3.—TYNE. Lower. 227 sq. mi.								
M	Upper Derwent (Quickleugh)	.. Sunderland & S. Shields W.Co.	NY(35)889479	1380	...	42.30	...	...
M	Upper Derwent (Heatheryburn)	.. Sunderland & S. Shields W.Co.	NY(35)905492	1250	...	39.45	...	...
D	Blanchland (Birkside)	.. Sunderland & S. Shields W.Co.	NY(35)949507	1090	...	30.13	200	143
	Blanchland (Cowbyers)	.. Sunderland & S. Shields W.Co.	NY(35)972516	1060	...	30.18	...	...
d	Blanchland (Pennypie)	.. Sunderland & S. Shields W.Co.	NY(35)951522	1270	...	30.64	...	...
M	Blanchland (Acton Burn)	.. Sunderland & S. Shields W.Co.	NY(35)979538	850	...	28.90	...	...
M	Whitley Chapel (Ladle Wells)	.. Hexham U.D.C. ..	NY(35)878524	1250	...	33.39	...	...
D	Newcastle (Leazes Park)	.. City Engineer ..	NZ(45)237651	255	26.4	23.48	178	123
D	Throckley Filters	.. Newcastle & Gatesh'd W.Co.	NZ(45)153668	300	...	24.82	185	132
D	Hexham (Plover Hill Top)	.. R. W. Gregory, Esq. ..	NY(35)933620	730	...	23.93	185	114
D	Hexham Reservoir	.. Hexham U.D.C. ..	NY(35)931632	325	...	25.38	175	120
D	North Shields (Billy Mill Reservoir)	C. F. J. Lisle, Esq., C.E. ..	NZ(45)341695	195	...	24.30	173	127
D	Tynemouth (Tyne Pier Works)	.. Tyne Improvement Commis.	NZ(45)371627	54	25.1	22.81	173	120
D	TYNEMOUTH (Coastguard Station)	.. Station Officer, for M.O. ..	NZ(45)373694	108	24.5	22.66	172	118
D	Whittle Dene Filters	.. Newcastle & Gatesh'd W.Co.	NZ(45)075675	353	26.6	24.66	182	125
D	Whittle Dene Reservoir	.. Newcastle & Gatesh'd W.Co.	NZ(45)066681	380	25.3	25.07	180	129
4.—NORTH TYNE. 433 sq. mi.								
d	Barrasford	.. Newcastle & Gatesh'd W.Co.	NY(35)921730	207	...	26.49	...	...
d	Simonburn (Park End)	.. A. H. Ridley, Esq. ..	NY(35)863739	300	31.4	25.94	...	127
	Ryal Cottage	.. Newcastle & Gatesh'd W.Co.	NY(35)997748	463	29.1	25.71	...	...
	Hallington Village	.. Newcastle & Gatesh'd W.Co.	NY(35)977761	467	29.9	25.22	...	...
D	Hallington Reservoir	.. Newcastle & Gatesh'd W.Co.	NY(35)973761	470	29.3	25.04	208	137
M	Hallington (Fawcett)	.. Newcastle & Gatesh'd W.Co.	NY(35)965765	537	28.2	27.09	...	...
M	Hallington (Cheviott)	.. Newcastle & Gatesh'd W.Co.	NY(35)998769	576	27.8	25.57	...	...
	Camphill	.. Newcastle & Gatesh'd W.Co.	NY(35)916765	650	29.4	28.99	...	...
D	Colt Crag Reservoir	.. Newcastle & Gatesh'd W.Co.	NY(35)929784	655	...	29.97	232	167
d	Bower Moor (Bower)	.. Forestry Commission ..	NY(35)834757	500	...	38.41	...	...
d	Falstone (Wickhope)	.. Forestry Commission ..	NY(35)676860	550	...	46.30	208	162
D	Wark (Stonehaugh)	.. Forestry Commission ..	NY(35)763796	650	...	31.80	219	153
M	Green Crag	.. Newcastle & Gatesh'd W.Co.	NY(35)926813	900	31.8	29.21	...	...
D	BELLINGHAM (Highgreen)	.. Sir Charles Morrison-Bell, Bt.	NY(35)808911	849	35.4	31.15	215	151
D	KIELDER CASTLE	.. Forestry Commission ..	NY(35)632935	660	47.8	41.28	207	164
d	Kielder (Viaduct Lodge)	.. Forestry Commission ..	NY(35)631924	610	...	43.93	...	...
	§Redewater (Countess Crag)	.. Newcastle & Gatesh'd W.Co.	NT(36)708022	1600	50.0	51.27	...	...
M	Redewater (Chattlehope)	.. Newcastle & Gatesh'd W.Co.	NT(36)737024	1100	46.7	43.78	...	...
D	Redewater (Catcleugh)	.. Newcastle & Gatesh'd W.Co.	NT(36)749031	819	44.7	38.16	219	164
w	§Redewater (Game Park)	.. Newcastle & Gatesh'd W.Co.	NT(36)716046	900	48.8	45.46	...	...

§Turf wall round gauge.

DIVISION X—NORTHERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
NORTHUMBERLAND—(contd.)				ft.	in.	in.		
5.—COQUET & C. 840 sq. mi.								
	Whittington .. .. .	.. Newcastle & Gatesh'd W. Co.	NZ(45)003703	528	28.1	25.74	...	...
	Burnside .. .. .	.. Newcastle & Gatesh'd W. Co.	NZ(45)045717	419	27.2	24.46	...	...
d	Kirkwhelpington .. .. .	.. Head Teacher	NY(35)998844	581	...	34.24	...	...
d	Maiden Hall (Stanton Nook) .. ..	.. C. F. J. Lisle, Esq., C.E. ..	NZ(45)138886	277	...	(30.57)	...	...
d	Morpeth (COCKLE PARK) .. ..	.. King's College, Newcastle ..	NZ(45)201912	325	28.7	27.48	...	...
d	Rothley (Harwood) .. .. .	.. Forestry Commission	NZ(45)001902	770	34.1	35.24	...	...
d	Morpeth (Tritlington School) .. ..	.. H. Graham, Esq.	NZ(45)188923	250	...	30.29	...	...
d	Font Reservoir (Tynemouth W.W.) ..	.. C. F. J. Lisle, Esq., C.E. ..	NZ(45)049936	620	31.1	33.30	186	147
d	Rothbury (Cemetery) .. .. .	.. Northumb. & Tyneside R. Bd.	NU(46)055014	300	...	30.86	189	130
d	ACKLINGTON Airfield .. .. .	.. (+A) Meteorological Office ..	NU(46)225007	138	...	24.78	169	121
d	Amble .. .. .	.. Amble U.D.C.	NU(46)266047	22	...	24.18	199	112
d	Callaly Castle Gardens .. .. .	.. G. Milne, Esq.	NU(46)052100	350	30.1	30.74	179	132
d	Uswayford .. .. .	.. Northumb. & Tyneside R. Bd.	NT(36)887145	1230	...	39.40	...	145
d	Howick Hall Gardens .. .. .	.. The Earl Grey	NU(46)247175	110	28.2	25.99	176	120
d	Stamford .. .. .	.. W. Robertson, Esq.	NU(46)225193	175	...	24.05	173	117
d	Embleton (Newton House) .. ..	.. Capt. A. J. Baker Cresswell ..	NU(46)236254	75	...	23.43	171	122
d	Belford (Newlands) .. .. .	.. Miss C. J. H. Sanderson ..	NU(46)116322	160	...	23.23	195	124
6.—TWEED. 262 sq. mi.								
d	Cheviot Hills (Linhope) .. ..	.. Northumb. & Tyneside R. Bd.	NT(36)963161	900	39.9	40.23	...	132
d	Ilderton (Lilburn Tower Gardens) ..	.. Mr. C. Lovett	NU(46)023243	250	30.4	30.08	178	132
d	Mindrum .. .. .	.. Northumb. & Tyneside R. Bd.	NT(36)842327	300	...	27.48	165	140
d	Cornhill (Pallinsburn) .. ..	.. Mrs. A. Turnbull	NT(36)911383	135	...	22.99	152	106
d	BERWICK-ON-TWEED (Ramparts) .. ..	.. Borough Surveyor	NU(46)002528	76	23.4	23.24	178	111
7.—INSULAR. 1 sq. mi.								
CUMBERLAND. (Area, 1,516 sq. mi.)								
1.—EDEN & SOLWAY. 887 sq. mi.								
d	Penrith (Hutton John) .. ..	.. N. Hudleston, Esq. ...	NY(35)439270	688	45.1	45.19	...	139
d	Penruddock School .. .. .	.. Headmaster	NY(35)428277	850	...	47.91	183	151
d	Penrith (Castle Park) .. ..	.. Engineer & Surveyor	NY(35)514299	490	...	30.74	...	...
d	Penrith (NEWTON RIGG) .. ..	.. Cumberland County Council ..	NY(35)493310	560	36.4	33.67	183	133
d	Uldale (Chapel House Reservoir) ..	.. J. R. Watters, Esq. ...	NY(35)258360	620	46.2	43.26	165	142
d	Penrith (Nunwick Hall) .. ..	.. Lt.-Col. C. H. F. Thompson ..	NY(35)554359	258	31.8	29.07	190	140
d	Penrith (Great Salkeld) .. ..	.. Rev. Canon G. A. K. Hervey ..	NY(35)553367	350	...	29.17	201	138
d	Troutbeck (Welbank) .. ..	.. Miss R. A. S. Streatfield ..	NY(35)337323	800	...	63.37	205	169
d	Renwick .. .. .	.. Cumberland River Board ..	NY(35)598433	712	...	37.14	220	157
d	Wigton (Brookfield) .. ..	.. J. Carruthers, Esq., B.A., B.Sc.	NY(35)243478	100	36.7	32.36	203	143
d	Geltsdale (New Water) .. ..	.. L. J. A. Stow, Esq., C.E. ..	NY(35)580513	975	...	41.88	...	...
d	Geltsdale (Old Water) .. ..	.. L. J. A. Stow, Esq., C.E. ..	NY(35)590533	990	...	42.96	...	...
d	SILLOTH Airfield .. .. .	.. (+A) Meteorological Office ..	NY(35)125537	25	...	33.12	181	142
d	Geltsdale .. .. .	.. L. J. A. Stow, Esq., C.E. ..	NY(35)573536	778	36.8	40.05	220	170
d	Castle Carrock .. .. .	.. L. J. A. Stow, Esq., C.E. ..	NY(35)545551	480	...	30.13	187	140
d	Carlisle (Spital Cemetery) .. ..	.. Superintendent	NY(35)388545	114	31.8	28.63	188	141
d	Carlisle (Sewage Works) .. ..	.. L. J. A. Stow, Esq., C.E. ..	NY(35)388565	39	...	27.58	177	134
d	Longtown (C.A.D.) .. ..	.. Officer-in-Charge	NY(35)341674	25	...	30.54	167	129
d	Bewcastle (Ashcroft) .. ..	.. Border R.D.C.	NY(35)567769	750	44.1	42.39	...	...
2.—DERWENT. 257 sq. mi.								
M	Sprinkling Tarn .. .. .	.. J. Edmondson, Esq.	NY(35)227091	1985	...	171.30	...	...
M	Styehead Tarn .. .. .	.. J. Edmondson, Esq.	NY(35)221097	1472	...	163.75	...	...
M	Styehead (A) .. .. .	.. J. Edmondson, Esq.	NY(35)231106	1100	...	165.00	...	...

DIVISION X—NORTHERN COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957		
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
CUMBERLAND—(contd.)					ft.	in.	in.		
2.—DERWENT—(contd.)									
M	Borrowdale (Stockley Bridge) ..	J. Edmondson, Esq. ..	NY(35)233110	585	...	146.25	...	...
M	Borrowdale (Seathwaite) ..	J. Edmondson, Esq. ..	NY(35)237119	423	122.0	131.90	...	...
M	Helvellyn (Hill Top Gill) ..	Manchester Corp'n. W.W. ..	NY(35)318119	1025	...	103.49	...	...
	§Ullscarf ..	Manchester Corp'n. W.W. ..	NY(35)295123	2100	119.8	129.73	...	...
D	Thirlmere (The Nook) ..	Manchester Corp'n. W.W. ..	NY(35)319128	621	...	98.52	229	193	
M	Wythburn ..	Manchester Corp'n. W.W. ..	NY(35)318138	610	96.8	104.89	...	...
M	Helvellyn (Brown Rigg) ..	Manchester Corp'n. W.W. ..	NY(35)313143	1400	...	118.19	...	...
D	Borrowdale (The Moraine) ..	Mrs. E. Bainbridge ..	NY(35)255143	330	97.5	95.18	227	184	
M	§Armboth Fells (The Pewitts) ..	Manchester Corp'n. W.W. ..	NY(35)290165	1650	...	121.63	...	...
D	§Thirlmere (Dale Head Hall) ..	Manchester Corp'n. W.W. ..	NY(35)314175	620	86.7	91.26	229	193	
D	Keswick (Derwent Island) ..	National Trust ..	NY(35)262224	290	57.0	59.52	196	164	
D	Keswick (Netherholme) ..	H. C. White, Esq. ..	NY(35)274229	350	...	60.51	209	163	
D	KESWICK (High Hill) ..	(+A) Tom Wilson, Esq. ..	NY(35)260238	254	54.9	56.36	201	163	
D	Braithwaite (Black Wood) ..	C. Barnes, Esq. ..	NY(35)229244	400	...	66.78	211	172	
D	Workington (Stainburn Reservoir) ..	H. Kay, Esq., C.E. ..	NY(35)022293	180	36.9	43.69	181	145	
d	Cockermouth (Waterworks) ..	M. M. Dixon, Esq. ..	NY(35)126297	340	...	40.82	194	155	
3.—WEST COAST STREAMS. 235 sq. mi.									
d	Bootle (Fellside) ..	Millom R.D.C. ..	SD(34)117883	265	...	54.80	...	...
d	Ravenglass (The Grove) ..	Ian McWilliam, Esq. ..	SD(34)087965	70	42.5	44.02	185	158	
d	SELLAFIELD (Windscale Works)	Ministry of Supply, for M.O.	NY(35)027032	43	...	41.02	...	...
d	Gosforth (Netherwasdale) ..	J. M. Sewell, Esq. ..	...	180	...	70.50	204	179
M	Braystones ..	J. E. Taylor, Esq. ..	NY(35)008058	36	37.5	42.41	...	...
	Wast Water (Wasdale Head) ..	J. W. Naylor, Esq. ..	NY(35)185088	280	...	101.00	...	...
M	Ennerdale (Gillertwaite) ..	A. Nelson, Esq. ..	NY(35)142140	445	...	95.70	...	...
d	Ennerdale (Bleach Green) ..	Borough Engineer ..	NY(35)085152	384	...	72.89	...	...
D	Whitehaven (Stanley Pond) ..	National Coal Board ..	NX(25)983143	45	47.5	47.57	205	159	
D	St. Bees Head Lighthouse ..	(+A) Principal Keeper, for M.O.	NX(25)941143	400	...	38.37	190	151	
d	Whitehaven (Summergrove) ..	Borough Engineer ..	NX(25)999159	283	...	48.06	201	164	
D	Workington (Coke Ovens) ..	Workington Iron & Steel Co.	NX(25)988279	29	...	39.29	184	140	
4.—DUDDON & C. 50 sq. mi.									
D	Millom (Lanthwaite) ..	Millom R.D.C. ..	SD(34)165851	145	...	55.97	224	173	
D	§Ulpha ..	Water Engineer, Barrow ..	SD(34)209947	251	77.7	84.13	213	198	
5.—SOUTH TYNE. 87 sq. mi.									
D	Nenthead (School) ..	F. J. Hartley, Esq. ..	NY(35)777437	1450	...	49.49	228	178	
d	ALSTON (Grammar School) ..	(+A) W. E. Richardson, Esq. ..	NY(35)722460	1069	49.0	47.27	...	...
WESTMORLAND. (Area, 783 sq. mi.)									
1.—EDEN. 373 sq. mi.									
d	Mallerstang ..	J. H. Adamson, Esq. ..	NY(35)783008	910	...	53.29	...	...
D	Kirkby Stephen (Eden Place) ..	Miss Marcia Mason, J.P. ..	NY(35)774096	544	...	38.23	212	157	
M	§Wasdale Pike ..	Manchester Corp'n. W.W. ..	NY(35)535084	1825	...	96.07	...	...
M	Mosedale (Mosedale Cottage) ..	Manchester Corp'n. W.W. ..	NY(35)496095	1443	...	108.99	...	...
M	§Mosedale (Artle Crag) ..	Manchester Corp'n. W.W. ..	NY(35)482102	2134	...	112.86	...	...
M	Wet Sleddale (Mirethwaite) ..	Manchester Corp'n. W.W. ..	NY(35)537107	995	...	78.67	...	...
M	§Blea Water ..	Manchester Corp'n. W.W. ..	NY(35)456108	1400	...	134.63	...	...
M	§Mardale (Riggindale) ..	Manchester Corp'n. W.W. ..	NY(35)466118	892	...	113.23	...	...
M	Swindale Parsonage ..	Manchester Corp'n. W.W. ..	NY(35)510129	875	71.8	76.43	...	...
M	§Mardale (Whelter) ..	Manchester Corp'n. W.W. ..	NY(35)469132	819	...	101.16	...	...
M	§Mardale (Low Raise) ..	Manchester Corp'n. W.W. ..	NY(35)454137	2465	101.7	111.17	...	...

§ Turf wall round gauge.

DIVISION X—NORTHERN COUNTIES—(contd.)

STATIONS			AUTHORITIES		Rain-gauge site		Average Rain-fall	1957		
					National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
WESTMORLAND—(contd.)						ft.	in.	in.		
1.—EDEN—(contd.)										
M	Shap (Thornship Gill) .. ..	..	Manchester Corpn. W.W. ..	NY(35)551132	844	57.3	64.72	...	...
M	§Mardale (Guerness) .. ..	..	Manchester Corpn. W.W. ..	NY(35)483135	905	...	85.05	...	...
M	§Shap (Tailbert Head) .. ..	..	Manchester Corpn. W.W. ..	NY(35)530143	1100	55.6	70.40	...	...
M	§Hawes Water (Wallow Crag) ..	..	Manchester Corpn. W.W. ..	NY(35)496149	1412	73.1	82.09	...	...
M	Hawes Water (Naddle House)	..	Manchester Corpn. W.W. ..	NY(35)509153	825	...	67.58	...	...
M	Hawes Water (Sandhills) ..	..	Manchester Corpn. W.W. ..	NY(35)485153	824	69.6	80.35	...	...
M	Measand Beck (Keasgill) ..	..	Manchester Corpn. W.W. ..	NY(35)461151	1800	...	95.01	...	...
D	§Hawes Water (Burn Banks) ..	..	Manchester Corpn. W.W. ..	NY(35)503159	835	65.1	66.55	201	166
d	Patterdale (Greenside Mine) ..	..	Basinghall Mining Synd. Ltd.	NY(35)363173	1101	91.9	96.71	...	...
M	§Bampton (Sealhole Grain) ..	..	Manchester Corpn. W.W. ..	NY(35)471166	1775	...	93.14	...	...
M	Bampton (Stanegarh) ..	..	Manchester Corpn. W.W. ..	NY(35)497177	913	59.5	61.95	...	...
M	Cawdale Beck (Howe Grain) ..	..	Manchester Corpn. W.W. ..	NY(35)478176	1130	68.3	74.48	...	...
M	Heltondale (Kidmoor) ..	..	Manchester Corpn. W.W. ..	NY(35)482197	1043	...	73.29	...	...
D	Martindale (Howtown) ..	..	Mrs. N. L. Rylands ..	NY(35)444197	600	61.6	68.69	203	167
d	Appleby Castle .. ..	..	Cumberland River Board ..	NY(35)685199	440	35.0	30.69	...	...
d	Penrith (Askham Hall) ..	..	Lord Lonsdale	NY(35)515239	760	...	37.83	173	144
d	Penrith (Barton House) ..	..	Mrs. Legh Tolson ..	...	500	42.4	36.50	...	...
d	Pooley Bridge (Bowerbank) ..	..	H. F. Thompson, Esq. ..	NY(35)474246	500	...	40.20	188	146
d	Temple Sowerby .. ..	..	Cumberland River Board ..	NY(35)610273	355	...	28.81	...	...
2.—LEVEN. 60 sq. mi.										
D	Windermere (Nurseries) ..	..	Windermere U.D.C. ..	NY(35)410982	350	...	63.72	212	176
D	Windermere (Holehird) ..	..	H. L. Groves, Esq. ..	NY(35)413007	500	68.0	69.26	226	188
D	Windermere (Brockhole) ..	..	C. Bateman, Esq. ..	NY(35)389009	175	66.3	75.77	217	186
D	Windermere (Briery Close) ..	..	Mrs. E. L. Hedley ..	NY(35)391019	325	...	69.17	220	183
d	Troutbeck (The Howe) ..	..	Dr. A. E. Ainscow ..	NY(35)414023	496	...	70.20	...	...
D	AMBLESIDE .. ..	..	The Lakes U.D.C. (Clerk) ..	NY(35)372040	145	70.9	77.75	222	184
D	Rydal (The Hall) ..	..	R. E. Porter, Esq. ..	NY(35)365065	354	82.1	85.36	218	190
D	Great Langdale (Long House)	(+A)	Mrs. Graham Satow ..	NY(35)306067	353	...	104.43	226	194	
D	Grasmere (Woningsworth) ..	..	R. H. Gibson, Esq. ...	NY(35)331084	260	...	93.48	225	194
3.—KENT. 188 sq. mi.										
D	Milnethorpe (Crooklands) ..	..	British Waterways ..	SD(34)535836	156	...	50.94	189	159
D	Heversham (Plumtree Hall) ..	..	Miss Lilian Watson ..	SD(34)496836	120	45.7	44.38	194	156
D	Levens (Beathwaite) ..	..	John A. Bush, Esq. ...	SD(34)487862	125	...	55.09	210	165
d	Levens (Bridge End) ..	..	Lancashire River Board ..	SD(34)475858	23	...	51.10	200	160
d	Killington Reservoir ..	..	British Waterways ..	SD(34)593908	670	...	55.10	...	...
D	Kendal School .. ..	..	N. Whitton, Esq. ..	SD(34)519915	136	...	51.46	210	160
D	Kendal (Fisher Tarn Reservoir)	..	Water Engineer ..	SD(34)552929	742	...	59.48	220	182	
	Troutbeck (Dubbs Reservoir)	..	Windermere U.D.C. ..	NY(35)422018	745	...	64.81	...	...
w	Long Sleddale (Nether Bower)	..	E. H. Richardson, Esq. ..	NY(35)504024	600	...	77.85	...	...
4.—LUNE. 122 sq. mi.										
5.—TEES. 40 sq. mi.										
M	Lunedale (Conny Pot) ..	..	T. S. R. Winter, Esq., C.E.	NY(35)815202	1840	...	62.00	...	...
w	Moor House (Burnt Hill Weir)	..	Nature Conservancy ..	NY(35)771331	1840	...	75.54	...	...
D	MOOR HOUSE (Dufton) ..	..	Nature Conservancy ..	NY(35)758328	1850	...	78.93	235	195
w	Moor House (Sike Hill) ..	..	Nature Conservancy ..	NY(35)772321	1840	...	74.61	...	...
w	Moor House (Bog Hill Weir) ..	..	Nature Conservancy ..	NY(35)773327	1700	...	72.63	...	...
w	Moor House (Long Hill) ..	..	Nature Conservancy ..	NY(35)768317	1800	...	70.39	...	...

§ Turf wall round gauge.

DIVISION XI—MONMOUTHSHIRE, WALES, AND THE ISLANDS

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957			
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more	
MONMOUTHSHIRE. (Area, 534 sq. mi.)					ft.	in.	in.			
1.—RHYMNEY. 39 sq. mi.										
D	Machen (Fwrrwm Road)	..	.. Machen Quarries, Ltd.	..	ST(31)222884	250	...	48·63	190	146
2.—EBBW. 88 sq. mi.										
D	NEWPORT (Cleppa Park E.H.S.)	..	Director	..	ST(31)279849	160	...	41·79	167	132
D	Rogerstone (Newport Golf Links)	..	W. H. Halsey, Esq.	..		304	...	47·08	178	145
D	Abercarn (Nantydraenog Reservoir)	..	W. Cory Goddard, Esq., C.E.	..		715	...	55·53	184	149
D	Blackwood	..	T. J. Jones, Esq.	..	ST(31)168975	650	...	53·63	182	142
D	Abertillery (The Park)	..	Medical Officer of Health	..	SO(32)207049	600	57·2	53·63	166	148
D	Cwmtillery Reservoir	..	W. Cory Goddard, Esq., C.E.	..		1130	...	54·41	189	150
d	Tredegar (Laboratory)	..	National Coal Board	..	SO(32)144082	950	57·2	59·02	...	...
D	Tredegar (Georgetown W.W.)	..	O. Griffiths, Esq.	..	SO(32)155087	1200	...	56·17	208	159
D	Tredegar (Nant-y-bwch W.W.)	..	O. Griffiths, Esq.	..	SO(32)133115	1200	...	64·38	179	160
D	Ebbw Vale Waterworks (Carno S.)	..	J. Grafton Hoskins, Esq., C.E.	..		1262	61·2	63·26	199	164
d	Ebbw Vale (Blaen-y-Cwm Reservoir)		Richard Thomas & Baldwins			1340	58·7	59·30	216	163
3.—USK & C. 290 sq. mi.										
d	Portskewett (Sudbrook)	..	British Railways	..		51	...	34·40	...	...
D	Newport W.W. (Ynys-y-fro Farm)	..	Newport Corporation	..	ST(31)285892	140	...	46·05	185	148
D	Newport W.W. (Pant-yr-eos Reservoir)	..	Newport Corporation	..	ST(31)254915	435	...	60·53	199	151
D	Newport W.W. (Llanvaches)	..	Newport Corporation	..	ST(31)429930	456	...	43·59	167	140
D	Newport W.W. (Nantpridd)	..	Newport Corporation	..	ST(31)436944	500	41·7	46·14	...	...
D	Cwmbran	..	Cwmbran Developmt. Cpn.	..	ST(31)274953	550	...	51·36	187	161
D	Shirenewton (Filter House)	..	Chepstow Water Co.	..		300	...	41·13	173	138
D	Newport W.W. (Newchurch)	..	Newport Corporation	..	ST(31)437964	550	42·2	46·58	...	...
D	CRUMLAND	..	Forestry Commission	..	SO(32)474024	804	...	39·78	169	132
D	USK	..	Monmouth Agric. Institute	..	SO(32)368018	70	...	39·08	155	125
d	Abergavenny (Parc Llettis)	..	Mrs. L. Whitehead, O.B.E.	..		325	37·2	37·23	...	123
D	Abergavenny (Plás Derwen)	..	Alan Whitehead, Esq.	..		200	41·3	40·58	178	121
D	Abergavenny (Ty-Clyd)	..	F. D. Llewelyn, Esq.	..		272	45·1	39·69	154	117
D	Grwyne Fawr (Coed Dias)	..	Colonel O. R. Paterson	..	SO(32)275244	900	44·6	45·45	192	143
4.—WYE. 117 sq. mi.										
D	Chepstow (Bethdour)	..	Chepstow Water Co.	..		176	...	38·60	168	128
D	Monmouth (Cornwall House)	..	P. G. Harvey, Esq., M.D.	..	SO(32)507126	52	...	24·93	138	98
d	Llantilio (Crossenny School)	..	Headmaster	..	SO(32)393172	530	...	33·58	142	113
D	Skenfrith	..	W. J. Hamer, Esq.*	..	SO(32)456204	140	32·7	28·99	141	107
D	Trewyn	..	Mrs. C. C. Molyneux	..		500	40·5	43·80	150	125
d	Grosmont	..	Capt. G. F. Renwick, R.N.	..	SO(32)403247	420	36·6	30·41	146	106
GLAMORGAN. (Area, 808 sq. mi.)										
1.—LOUGHOR. 55 sq. mi.										
D	Felindre (Lower Lliw Reservoir)	..	T. Price, Esq., C.E.	..	SN(22)649034	416	...	58·82	206	160
D	Felindre (Upper Lliw Reservoir) (+A)	..	T. Price, Esq., C.E.	..	SN(22)662058	599	...	65·73	218	173
2.—GOWER PENINSULA. 62 sq. mi.										
D	Gower (Penrice Castle)	..	Estate Agent	..	SS(21)501880	30	...	45·28	182	153
3.—TAWE. 47 sq. mi.										
D	SWANSEA (Victoria Park)	..	(+A) Town Clerk	..	SS(21)642923	32	44·7	44·89	163	148
d	Clydach (Wernfadog)	..	C. G. Bellingham, Esq.	..	SN(22)672001	400	...	60·95	...	...
d	Clydach	..	Mond Nickel Co., Ltd.	..	SN(22)695015	78	...	62·19	...	...
D	Ystalyfera (Wern House)	..	Miss L. Williams	..	SN(22)768088	240	64·8	72·90	194	172

* Per Wye River Board.

DIVISION XI—MONMOUTHSHIRE, WALES, AND THE ISLANDS—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957			
				National grid reference	Altitude		Rain-fall	Days with -01 in. or more	Days with -04 in. or more	
GLAMORGAN—(contd.)					ft.	in.	in.			
4.—NEATH. 82 sq. mi.										
D	Briton Ferry (Cefn Cwrt)	..	..	Borough Engineer, Neath	SS(21)752940	503	47·7	50·88	199	162
D	NEATH (Oil Refineries)	..	..	National Oil Refineries, Ltd.	SS(21)718957	145	...	54·09	200	160
D	Neath (Cimla Reservoir)	..	..	Borough Engineer	SS(21)765963	360	...	55·34	169	149
D	Neath (Gnoll Reservoir)	..	..	Borough Engineer	SS(21)764975	204	52·1	54·69	186	161
D	Rhondda W.W. (Llyn Fawr Reservoir)	..	..	Water Engineer	SN(22)918033	1220	93·3	107·67	203	180
d	Resolven (Brynawelon)	..	..	Forestry Commission	SN(22)830021	250	...	65·73	...	...
5.—OGMORE & C. 350 sq. mi.										
D	RHOOSE Airfield	..	..	Meteorological Office	ST(31)060670	20	...	35·02	178	136
D	St. Athan	..	..	H. Thomas, Esq.	ST(31)026671	50	...	33·47	172	151
d	Lower Penarth	..	..	Surveyor	ST(31)183697	66	34·9	32·97	160	...
D	Penarth (Cemetery)	..	..	Surveyor	ST(31)180702	99	...	35·14	162	134
D	Penarth (Alexandra Park)	..	..	Surveyor	ST(31)187714	122	37·1	36·04	178	143
D	Dinas Powis (The Gables)	..	..	D. E. T. Pennant, Esq.	ST(31)151708	70	...	37·43	171	145
d	Cowbridge (St. Mary Church)	..	..	Glamorgan River Board	ST(31)017717	946	...	36·09	...	...
D	Cardiff (Cogan Pumping Station)	..	..	G. W. Cover, Esq., C.E.	ST(31)171729	121	37·7	42·64	186	148
d	Cowbridge (Tair Onen Nursery)	..	..	Forestry Commission	ST(31)038742	400	...	45·36	...	...
d	Cardiff (St. Fagan's Castle)	..	..	Iorwerth C. Peate, Esq.	ST(31)119773	100	48·5	44·50	170	...
D	Cowbridge (Pentre Meyrick)	..	..	F. E. P. Dunn, Esq.	SS(21)967757	300	...	43·01	182	153
D	Cowbridge (Pwllwy)	..	..	Mid-Glamorgan Water Bd.	SS(21)991766	92	...	44·61	177	149
D	PORTHCAWL (Griffin Park)	..	..	Urban District Council	SS(21)822771	19	...	36·80	166	142
D	Merthyr Mawr (Schwyl)	..	..	Mid-Glamorgan Water Bd.	SS(21)888770	45	...	41·25	187	153
	Merthyr Mawr	..	..	R. I. Nicholl, Esq.	SS(21)889779	75	42·9	42·70	...	...
D	Bridgend (Erw Graig)	..	..	H. J. Randall, Esq.	SS(21)897786	50	...	40·61	203	158
d	Bridgend (Tremaine House)	..	..	Glamorgan River Board	SS(21)923796	140	...	43·39	...	145
D	Llantrisant	..	..	Engineer & Surveyor	ST(31)028849	250	...	65·40	180	171
D	Llanharan (Sewage Works)	..	..	H. Thomas, Esq.	SS(21)974821	175	...	49·98	188	161
d	Margam (Kenfig Factory)	..	..	British Industrial Solvents Ltd.	SS(21)802834	35	...	37·28	...	...
D	PORT TALBOT	..	..	Steel Co. of Wales, Ltd.	SS(21)789867	24	...	42·28	185	152
D	Maesteg (Salisbury Road)	..	..	H. L. Davies, Esq.	SS(21)849910	560	62·8	78·98	215	174
D	Maesteg (Welfare Park)	..	(+A)	Engineer & Surveyor	SS(21)847913	550	...	79·35	210	177
d	Pontycymmer	..	..	Mid-Glamorgan Water Bd.	SS(21)903916	560	...	88·14	...	172
D	Ognore Vale	..	..	Mid-Glamorgan Water Bd.	SS(21)919916	834	84·7	100·51	208	177
6.—TAFF. 157 sq. mi.										
D	Rhubina Reservoir	..	..	G. W. Cover, Esq., C.E.	ST(31)150824	336	48·1	49·82	183	155
D	Pontypridd (Ty-Gwyn Reservoir)	..	..	Pontypridd & Rhondda W.B.	ST(31)063897	725	...	64·34	183	165
D	Pontypridd (Boys' Grammar School)	..	..	E. G. Mort, Esq.	ST(31)072906	330	...	64·50	172	152
D	Pontypridd (Lanwood Reservoir)	..	..	Pontypridd & Rhondda W.B.	ST(31)073908	300	...	66·10	183	162
D	Pontypridd (Llanfabon)	..	..	W. D. Lewis, Esq.*	ST(31)108934	600	...	63·19	192	156
D	§Treorchy (Pumping Station)	..	..	A. H. Gillard, Esq.	SS(21)965965	515	...	95·19	192	170
D	Ferndale Park	..	..	A. H. Gillard, Esq.	SS(21)998967	860	...	82·80	175	161
D	Treherbert Park	..	..	A. H. Gillard, Esq.	SS(21)939986	600	...	101·75	200	168
D	Mountain Ash (Darranlas Reservoir)	..	..	Engineer & Surveyor	ST(31)044991	540	63·0	69·88	192	154
D	§Treherbert (Tyn-y-waun)	..	..	Water Engineer, Rhondda	SS(21)932994	801	87·0	101·79	204	176
D	Rhondda (Castell Nos Reservoir)	..	..	Pontypridd & Rhondda W.B.	SN(22)964008	1060	...	95·04	210	174
D	Rhondda (Lluest Wen Filter)	..	..	Pontypridd & Rhondda W.B.	SN(22)956015	1200	...	100·98	210	176
D	Rhondda (Lluest Wen Reservoir)	..	..	Pontypridd & Rhondda W.B.	SN(22)950015	1280	89·0	106·69	210	179
D	Merthyr Tydfil (Penybryn Filters)	..	..	D. C. W. Jones, Esq., C.E.	SO(32)054077	930	54·0	58·51	223	154
D	Merthyr Tydfil (Bronygarth)	..	..	F. L. G. Bevan, Esq.	SO(32)047072	770	...	51·70	196	151
D	Dowlais	..	..	Imperial Chem. Indust. Ltd.	SO(32)064087	1075	...	55·78	186	165
D	Dowlais (Gwernllwyn)	..	..	A. F. Adams, Esq.	SO(32)071079	1071	51·4	58·61	195	166
D	Dowlais (Garth Filter Beds)	..	..	A. C. Quiningborough, Esq.	SO(32)066096	1245	...	57·36	206	178

* Per Pontypridd & Rhondda Joint Water Board.

§ Turf wall round gauge.

DIVISION XI—MONMOUTHSHIRE, WALES, AND THE ISLANDS—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain- fall	1957		
			National grid reference	Altitude		Rain- fall	Days with ·01 in. or more	Days with ·04 in. or more
GLAMORGAN—(contd.)				ft.	in.	in.		
7.—RHYMNEY. 55 sq. mi.								
D	CARDIFF (Penylan)	.. .. (+A) Medical Officer of Health ..	ST(31)195793	202	41·4	41·52	177	145
D	Cardiff (Heath Filters)	.. .. G. W. Cover, Esq., C.E.	ST(31)181799	132	41·3	41·21	182	145
D	Llanishen Reservoir	.. .. G. W. Cover, Esq., C.E. ..	ST(31)188815	155	39·4	44·03	186	153
D	Rhymney Bridge Reservoir	.. (+A) Engineer	SO(32)105110	1150	58·5	61·34	218	184
CARMARTHENSHIRE. (Area, 918 sq. mi.)								
1.—TEIFI. 87 sq. mi.								
2.—TOWY & C. 715 sq. mi.								
d	Whitland	.. .. Wilts United Dairies, Ltd. . .	SN(22)201164	60	...	52·23	...	...
D	Carmarthen (St. Davids Avenue)	.. E. W. Francis, Esq. ..	SN(22)405202	100	...	55·55	213	163
D	Carmarthen (Cwmoernant Reservoir)	E. Gooseman, Esq. ..		135	...	51·63	188	148
D	Carmarthen (Fryn-hir)	.. .. C. V. Lewis, Esq. ..	SN(22)486201	155	...	56·16	211	166
D	Llandilo (Golden Grove Farm Inst.)	Principal	SN(22)597203	100	...	58·72	209	163
w	Llyn-y-fan Fach (Waen Sychlwch)	.. Llanelly R.D.C. ..	SN(22)803222	1647	103·0	118·84	...	...
D	Llyn-y-fan Fach (Nant Coch)	.. .. Llanelly R.D.C. ..	SN(22)803233	1172	77·8	89·24	179	173
w	Llyn-y-fan Fach (Bua'r Llyn)	.. .. Llanelly R.D.C. ..	SN(22)799219	1650	102·0	136·18	...	...
d	Llyn-y-fan Fach (Troed-y-Foel)	.. .. Llanelly R.D.C. ..	SN(22)798238	867	73·0	83·10	...	172
D	Llanddeusant (Pontcrynfe)	.. .. J. Thomas, Esq. ..	SN(22)730241	323	55·6	61·63	224	161
D	Conwil-Elvet (Cwmtawel Reservoir)	E. Gooseman, Esq. ..		350	...	64·27	200	171
D	Brechfa	.. .. Mrs. C. Joynson ..		290	64·8	71·03	216	172
D	Abergorlech	.. .. S. L. Davies, Esq. ..	SN(22)585336	245	59·5	67·50	197	179
3.—LOUGHOR & C. 104 sq. mi.								
D	Llanelly (Penyfai House)	.. .. S.W. Wales River Bd. ..	SN(22)497015	188	...	39·86	194	149
D	Llanelly (Filter Beds)	.. .. Llanelly U.D.C. ..	SN(22)516024	237	48·7	49·98	194	153
D	Llanelly (Cwmlledi Waterworks)	.. .. Llanelly U.D.C. ..	SN(22)519031	240	48·7	52·16	198	163
D	Llanelly (Upper Lliedi Reservoir)	.. .. Llanelly U.D.C. ..	SN(22)514043	290	...	52·30	192	155
D	Kidwelly	.. .. Llanelly U.D.C. ..	SN(22)420087	60	...	46·05	184	152
w	Llannon Reservoir	.. .. Llanelly R.D.C. ..	SN(22)552102	860	...	66·94	...	...
4.—TAWE 7 sq. mi.								
5.—USK. 5 sq. mi.								
D	Upper Usk 1	.. .. (+A) T. Price, Esq., C.E. . .	SN(22)829291	1020	...	56·24	220	172
	Upper Usk 2	.. .. T. Price, Esq., C.E. . .	SN(22)811297	1390	...	58·15	...	...
	Upper Usk 3	.. .. T. Price, Esq., C.E. . .	SN(22)798290	1350	...	57·65	...	...
	Upper Usk 5	.. .. T. Price, Esq., C.E. . .	SN(22)815264	1090	66·4	71·45	...	...
6.—WYE.								
PEMBROKESHIRE (Area, 617 sq. mi.)								
1.—TEIFI. 37 sq. mi.								
2.—NEVERN & C. 91 sq. mi.								
D	Goodwick (Trenwydd)	.. .. Mrs. G. M. Johns ..		300	...	42·00	206	154
3.—WEST COAST STREAMS. 82 sq. mi.								
d	Brawdy	.. .. Naval Weather Service ..	SM(12)852248	360	...	40·69	192	158

DIVISION XI—MONMOUTHSHIRE, WALES, AND THE ISLANDS—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
PEMBROKESHIRE—(contd.)				ft.	in.	in.		
4.—CLEDDAU & C. 407 sq. mi.								
d	Pembroke (Stackpole Court) ..	Mr. I. M. Garlick ..	SR(11)972960	60	39·3	37·54	...	...
d	Pembroke (Grammar School) ..	Headmistress ..	SM(12)977025	150	...	40·22	189	158
D	Milford Haven (DALE FORT) ..	C. Promotion Field Studies	SM(12)823052	109	...	29·12	175	128
D	Milford Haven (Grammar School) ..	C. Davies, Esq. ..	SM(12)908060	170	...	32·42	189	150
D	MILFORD HAVEN ..	Murex Ltd. ..	SM(12)907069	179	...	35·88	200	142
d	Narberth (Blackpool) ..	Forestry Commission ..	SN(22)058137	200	...	54·05	...	...
D	HAVERFORDWEST (Hospital Grounds)	Borough Surveyor ..	SM(12)955153	133	46·4	46·72	195	156
D	Maenclochog (Ddolwen Bridge)	Prescelly Water Board ..	SN(22)069300	740	...	55·10	185	167
d	Letterston (Trecwn House) ..	Superintending Engineer ..	SM(12)975325	391	...	54·58	...	...
CARDIGANSHIRE. (Area, 688 sq. mi.)								
1.—DOVEY. 20 sq. mi.								
D	Machynlleth (Glandyfi) ..	Capt. P. L. Ransom ..		40	...	56·71	233	176
2.—YSTWYTH & C. 347 sq. mi.								
D	ABERPORTH ..	(+A) Meteorological Office ..	SN(22)247516	376	37·5	37·73	186	144
D	Nantcwnlle (Bwlchyllan) ..	J. Davies, Esq.** ..	SN(22)580595	800	...	59·20	203	169
D	Llandyssiliogogo (Dolwylan) ..	Dr. R. T. Goodyear** ..	SN(22)356573	90	...	33·86	179	140
D	TRAWSCOED ..	Farm Director, E.H.F. ..	SN(22)674736	200	...	50·62	209	166
D	ABERYSTWYTH (Corporation Yard)	Town Clerk ..	SN(22)580815	12	36·6	39·18	197	156
D	ABERYSTWYTH (P.B.S.) ..	Director, Plant Breeding Stn.	SN(22)605825	452	...	40·59	211	148
D	Aberystwyth (GOGERRDAN) ..	Director, Plant Breeding Stn.	SN(22)627836	103	...	43·12	187	153
D	LLETY-EVAN-HEN ..	Director, Plant Breeding Stn.	SN(22)693851	950	...	63·16	209	173
d	\$Afon Rheidol (Nant-y-moch) ..	Water Engineer, Aberystwyth		1060	73·0	86·96	...	167
M	\$Plynlimon (Llygad Rheidol) higher	Water Engineer, Aberystwyth		1660	...	90·80	...	...
M	\$Plynlimon (Llygad Rheidol) lower	Water Engineer, Aberystwyth		1650	87·0	93·50	...	...
3.—TEIFI. 260 sq. mi.								
D	Llandyssul (Joyous Gard) ..	I. T. Hughes, Esq., M.A., J.P.	SN(22)414406	390	...	44·60	188	150
	Llandyssul (Sychpant Horeb) ..	J. A. Davies, Esq. ..		341	...	48·00	...	...
d	Cardigan (Plas Llangoedmore)	Mrs. D. Barrington Davies		120	...	35·54	201	140
D	SWYDDFFYNNON(CRUG-LAS) ..	Nature Conservancy ..	SN(22)696655	588	...	54·67	213	167
4.—TOWY. 46 sq. mi.								
5.—WYE. 15 sq. mi.								
\$	Birmingham W.W. (Llyn Gynon) ..	C. A. Risbridger, Esq., C.E.	SN(22)801651	1450	70·7	77·90	...	...
\$	Birmingham W.W. (Bwlchyrhendre) ..	C. A. Risbridger, Esq., C.E.	SN(22)807664	1585	67·4	76·95	...	...
	Birmingham W.W. (Claerddu) ..	C. A. Risbridger, Esq., C.E.	SN(22)792686	1470	71·6	79·80	...	...
D	\$Birmingham W.W. (Abergwngu) ..	C. A. Risbridger, Esq., C.E.	SN(22)870734	1150	67·1	88·40	242	197
BRECKNOCKSHIRE. (Area, 733 sq. mi.)								
1.—TOWY. 17 sq. mi.								
2.—TAWY. 41 sq. mi.								
D	Ystradgynlais (Ynyscedwyn House) ..	Anglo-Celtic Watch Co. ..		235	...	72·67	...	169
D	Swansea W.W. (Nantyrwydd) ..	T. Price, Esq., C.E... ..	SN(22)859181	908	72·6	90·20	204	179

** Under auspices of Royal Meteorological Society.

§ Turf wall round gauge.

DIVISION XI—MONMOUTHSHIRE, WALES, AND THE ISLANDS—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
BRECKNOCKSHIRE.—(contd.)				ft.	in.	in.		
3.—NEATH. 48 sq. mi.								
D	Ystradfellte Reservoir .. ..	.. .. Engineer (Neath R.D.C.) ..		1147	77.4	84.87	209	167
4.—TAFF. 48 sq. mi.								
D	Aberdare (Nanthir Reservoir) ..	H. W. Crowther-Green, Esq.		860	59.6	64.18	217	167
D	Cardiff W.W. (Cefn-Coed-y-Cymmer)	G. W. Cover, Esq., C.E. ..	SO(32)024086	790	...	53.85	202	161
D	Taf Fechan (Pontsticill) No. 12 (+A)	A. C. Quiningborough, Esq.	SO(32)059116	1031	59.1	60.06	196	164
D	Cardiff W.W. (LLWYNON Res.) (+A)	G. W. Cover, Esq., C.E. ..	SO(32)012115	860	62.0	66.89	208	173
W	Cardiff W.W. (Nant Ffynnon)	G. W. Cover, Esq., C.E. ..	SN(22)983119	1352	73.2	80.29	...	...
M	Cardiff W.W. (Garn Ddu) ..	G. W. Cover, Esq., C.E. ..	SO(32)027129	1340	70.3	73.78	...	...
W	Cardiff W.W. (Garw-nant) ..	G. W. Cover, Esq., C.E. ..	SN(22)994132	1100	75.5	76.12	...	...
W	Cardiff W.W. (Nant-Gwineu) ..	G. W. Cover, Esq., C.E. ..	SO(32)017132	1200	67.5	64.13	...	...
W	Cardiff W.W. (Cefn Gougarn)	G. W. Cover, Esq., C.E. ..	SN(22)986150	1362	75.7	78.05	...	...
W	Cardiff W.W. (Llysiog) ..	G. W. Cover, Esq., C.E. ..	SO(32)015149	1080	68.7	69.06	...	...
D	Taf Fechan (Pentwyn Res. S.) No. 15	A. C. Quiningborough, Esq.	SO(32)056145	1120	68.0	73.70	208	172
M	Taf Fechan (Pentwyn Res. N.) No. 16	A. C. Quiningborough, Esq.	SO(32)049158	1090	66.5	74.41	...	...
W	Cardiff W.W. (Twyn-Gareg) ..	G. W. Cover, Esq., C.E. ..	SN(22)984166	1501	86.7	87.70	...	...
D	Cardiff W.W. (Cantref Res.) ..	G. W. Cover, Esq., C.E. ..	SN(22)995155	1120	69.9	79.46	218	180
D	Cardiff W.W. (Beacons Res.) ..	G. W. Cover, Esq., C.E. ..	SN(22)987192	1357	79.3	95.49	221	189
W	Cardiff W.W. (Nant Penig) ..	G. W. Cover, Esq., C.E. ..	SN(22)977191	2000	92.9	103.11	...	...
D	Cardiff W.W. (Storey Arms Field)	G. W. Cover, Esq., C.E. ..	SN(22)986200	1430	88.5	100.23	220	188
W	Cardiff W.W. (Blaen Taf Fawr)	G. W. Cover, Esq., C.E. ..	SN(22)992207	1675	85.7	93.25	...	...
D	Taf Fechan (Neuadd Res.) No. 11A	A. C. Quiningborough, Esq.	SO(32)032185	1520	81.1	90.81	182	177
M	Taf Fechan (Neuadd Res.) No. 10	A. C. Quiningborough, Esq.	SO(32)032193	1700	72.7	89.35	...	...
M	Taf Fechan (Neuadd Res.) No. 8	A. C. Quiningborough, Esq.	SO(32)019202	1723	87.4	100.10	...	...
M	Taf Fechan (Neuadd Res.) No. 6	A. C. Quiningborough, Esq.	SO(32)011209	2099	95.4	109.65	...	...
5.—RHYMNEY. 2 sq. mi.								
6.—EBBW. 7 sq. mi.								
D	Ebbw Vale W.W. (Llangynidr) 1 ..	J. G. Hoskins, Esq. ..		1413	62.9	63.74	199	162
D	Ebbw Vale W.W. (Llangynidr) W3 ..	J. G. Hoskins, Esq. ..	SO(32)150143	1468	65.1	71.09	199	166
D	Ebbw Vale W.W. (Llangynidr) NW2	J. G. Hoskins, Esq. ..		1471	63.8	62.92	199	167
D	Ebbw Vale W.W. (Carno, E.) ..	J. G. Hoskins, Esq. ..		1391	61.6	59.58	199	161
D	Ebbw Vale W.W. (Carno, W.) ..	J. G. Hoskins, Esq. ..	SO(32)160134	1412	63.7	67.09	199	161
D	Ebbw Vale W.W. (Carno, N.) ..	J. G. Hoskins, Esq. ..		1491	62.3	60.42	199	166
7.—USK. 299 sq. mi.								
D	Gilwern (Bryn-yr-Haul) ..	Mrs. J. John ..	SO(32)222131	590	49.5	48.21	169	135
	Torpantau (Darenfawr) ..	Newport Corporation ..	SO(32)074164	1172	70.4	75.21	...	...
M	Torpantau (Ynysposte) ..	Newport Corporation ..	SO(32)074170	741	66.8	70.19	...	...
M	Torpantau (Blaen-caer-fanell) ..	Newport Corporation ..	SO(32)058188	1584	73.2	81.60	...	...
D	Talybont (Ffynonwen) ..	Newport Corporation ..	SO(32)091179	629	60.2	61.27	206	165
M	Talybont (Rhyd-y-bine) ..	Newport Corporation ..	SO(32)091195	1224	...	77.18	...	...
D	Talybont (Filter House) ..	Newport Corporation ..	SO(32)105206	554	56.0	56.12	194	148
M	Talybont (Craig-pwllfa) ..	Newport Corporation ..	SO(32)071207	1796	73.7	83.11	...	...
D	Talybont (Tyle Clydach) ..	Newport Corporation ..	SO(32)099212	709	55.8	56.71	190	145
M	Talybont (Nant-y-Llanerch) ..	Newport Corporation ..	SO(32)085212	1007	66.7	70.55	...	...
	Talybont (Cefn Bach) ..	Newport Corporation ..	SO(32)079210	1263	...	73.76	...	...
D	Crickhowell (Penmyarth) ..	Margaret Lady Glanusk ..		330	...	37.66	149	127
M	Swansea W.W. (Cray Res.) No. 2	T. Price, Esq., C.E. ..	SN(22)880209	1019	...	105.95	...	...
D	Swansea W.W. (Cray Res.) No. 1 (+A)	T. Price, Esq., C.E. ..	SN(22)881218	1043	67.2	94.80	220	181
D	Talybont (Ashford) ..	J. Henderson, Esq. ..		360	45.6	45.70	175	128
d	Llanfrynach (Ty-mawr) ..	Miss M. D. de Winton ..		450	...	49.42	...	143
D	Treacastle (Blaenau-hydfer) ..	Mr. Trevor Davies for M.O.		970	63.2	60.43	193	167
D	Brecon (Tairbull School) ..	W. O. Davies, Esq. ..		660	52.0	56.91	191	163
D	Brecon (Ffrwdgrech) ..	Capt. J. D. D. Evans ..		560	...	43.99	180	135

DIVISION XI—MONMOUTHSHIRE, WALES, AND THE ISLANDS—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
BRECKNOCKSHIRE—(contd.)				ft.	in.	in.		
7.—USK—(contd.)								
D	Brecon (Waterworks)	Borough Engineer		550	...	38.83	199	142
D	Black Mountains (Blaen-y-cwm) ..	W. Cory Goddard, Esq., C.E.		1423	54.5	58.17	205	166
D	Black Mtns. (The Dam, Grwyne Fawr)	W. Cory Goddard, Esq., C.E.	SO(32)233307	1787	56.0	60.59	205	171
8.—WYE. 271 sq. mi.								
D	Cathedine Rectory	Rev. Dr. E. T. Jones, for M.O.	SO(32)145239	650	38.3	36.48	177	128
D	Talgarth (South Wales Sanatorium) ..	Physician Superintendent ..		500	...	34.66	174	139
W	Llanwrtyd Wells (Llandulas)	Mr. T. A. Poole	SN(22)902428	780	54.1	65.56	...	...
W	Llanwrtyd Wells (Abernant)	Mr. T. A. Poole*	SN(22)887464	632	57.2	62.36	...	...
M	Nant-y-Brain	Mr. T. A. Poole*	SN(22)849518	825	...	79.75	...	...
M	Llanerch-Yrfa	Mr. T. A. Poole*	SN(22)836555	1070	...	86.41	...	...
M	Abergwesyn (Trallwn)	D. I. Felix, Esq., for M.O.		1000	75.5	77.00	...	...
D	Beulah (Llwyn Madoc)	Mr. T. C. Smith	SO(32)902525	763	...	64.21	213	166
M	Llanfihangel (Llwynycynar)	J. Francis, Esq., for M.O.		745	...	51.28	...	...
D	Newbridge (Llysdyman)	Sir Michael Venables Llewelyn	SO(32)009585	646	41.2	41.24	192	148
M	§Birmingham W.W. (Cors-yr-hwch) ..	C. A. Risbridger, Esq., C.E.	SN(22)859600	1805	87.3	93.70	...	...
M	§Birmingham W.W. (Llyn-Carw) ..	C. A. Risbridger, Esq., C.E.	SN(22)851614	1775	79.3	88.40	...	...
M	§Birmingham W.W. (Nant-y-car) ..	C. A. Risbridger, Esq., C.E.	SN(22)877617	1560	76.5	82.60	...	...
M	§Birmingham W.W. (Arban)	C. A. Risbridger, Esq., C.E.	SN(22)830629	1500	73.2	91.20	...	...
M	§Birmingham W.W. (Tyn-y-pant) ..	C. A. Risbridger, Esq., C.E.	SN(22)926626	1320	62.0	69.05	...	...
M	§Birmingham W.W. (Esgair Garthen)	C. A. Risbridger, Esq., C.E.	SN(22)842643	1590	75.5	88.70	...	...
D	Birmingham W.W. (Elan Village) ..	C. A. Risbridger, Esq., C.E.	SN(22)931649	700	54.4	60.55	211	163
RADNORSHIRE. (Area, 474 sq. mi.)								
1.—WYE. 424 sq. mi.								
D	Glasbury-on-Wye	Mr. R. A. Bufton*	SO(32)181393	276	...	32.01	163	132
d	Llyswen (Llanstephan House Gdns.)	Lady Milford	SO(32)120420	440	...	43.13	...	153
D	Erwood (Cwrt Gwenddwr)	Mr. J. E. Bufton*	SO(32)072456	407	...	45.75	206	149
W	Newchurch	H. Lloyd, Esq.*	SO(32)217508	801	...	43.16	...	...
D	§Builth (Cefndyrys)	E. L. Thomas, Esq.	SO(32)039530	740	41.5	38.93	184	145
d	Llansaintfraed-in-Elvel	W. J. Jones, Esq.*	SO(32)109542	673	38.7	39.39	...	...
	Llanfihangel-nant-melan	J. C. B. Slater, Esq.*	SO(32)107590	985	...	42.01	...	...
d	New Radnor (The Old Rectory) ..	Professor J. H. Hutton* ..	SO(32)213606	985	...	42.94	210	148
D	Presteigne (Evancoyd)	Major C. J. L. Lewis	SO(32)260630	744	...	38.88	185	132
D	LLANDRINDOD WELLS (The Common)	Clerk to the U.D.C.	SO(32)061605	772	38.7	41.38	177	150
D	Cascob (Forester's Lodge)	Forestry Commission		1000	...	47.87	171	153
D	§Birmingham W.W. (Tyrmynydd) ..	C. A. Risbridger, Esq., C.E.	SN(22)914625	832	62.1	66.16	225	176
D	Birmingham W.W. (Ciloerwynt) ..	C. A. Risbridger, Esq., C.E.	SN(22)882629	1045	...	72.48	233	186
D	Birmingham W.W. (Nantgwilt) ..	C. A. Risbridger, Esq., C.E.	SN(22)909638	840	63.2	71.64	230	177
M	§Birmingham W.W. (Esgair Gader) 2..	C. A. Risbridger, Esq., C.E.	SN(22)859665	1655	67.3	77.55	...	...
M	Birmingham W.W. (Tynllidiart) ..	C. A. Risbridger, Esq., C.E.	SN(22)907659	1006	62.9	76.42	...	...
M	§Birmingham W.W. (Claerwen) ..	C. A. Risbridger, Esq., C.E.	SN(22)820673	1250	67.7	76.30	...	...
D	§Birmingham W.W. (Tynant) ..	C. A. Risbridger, Esq., C.E.	SN(22)899673	1020	64.3	78.59	232	182
	Rhayader (East Street)	R. Ashton, Esq.	SN(22)972680	700	49.2	51.62	...	...
M	§Birmingham W.W. (Cerigllwydion)	C. A. Risbridger, Esq., C.E.	SN(22)843692	1710	72.4	86.20	...	...
M	Birmingham W.W. (Bryn Hir) ..	C. A. Risbridger, Esq., C.E.	SN(22)843681	1470	74.2	85.95	...	...
M	Birmingham W.W. (Abercaethon) ..	C. A. Risbridger, Esq., C.E.	SN(22)870690	1180	67.1	79.24	...	...
D	Abbey Cwmhir (The Hall)	Col. J. L. Philips		877	...	44.72	171	149
d	Llangunllo	H. Kendrick, Esq.*	SO(32)211712	776	...	41.81	179	143
M	§Birmingham W.W. (Figin) 2 ..	C. A. Risbridger, Esq., C.E.	SN(22)828715	1620	81.3	89.90	...	...
M	Birmingham W.W. (Aberhenllan)	C. A. Risbridger, Esq., C.E.	SN(22)898717	1070	64.8	78.06	...	...
D	St. Harmons	J. Hope, Esq.*	SN(22)990726	918	...	43.97	168	146
	§St. Harmons (Bwlch-y-sarnau) ..	Mr. J. Hamer		1288	...	44.44	...	...

* Per Wye River Board.

§ Turf wall round gauge.

DIVISION XI—MONMOUTHSHIRE, WALES, AND THE ISLANDS—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
RADNORSHIRE—(contd.)				ft.	in.	in.		
1.—WYE—(contd.)								
W	Llanbadarn-fynydd	W. Bufton, Esq.*	SO(32)097777	974	...	45.73	...	...
W	Pont Marteg (Gamallt)	D. I. Morgans, Esq.*	SN(22)947710	785	...	58.04	...	...
D	§St. Harmons (Pen-Ithon)	Mrs. L. O. Morris*		1200	...	42.56	209	171
2.—SEVERN. Right Bank Tributaries. 50 sq. mi.								
MONTGOMERYSHIRE. (Area, 797 sq. mi.)								
1.—DOVEY. 120 sq. mi.								
D	Machynlleth (Garth)	M. Bourne, Esq.	SH(23)760016	90	...	68.05	209	166
d	Corris (Ceinws Camp).. ..	Forestry Commission		246	...	96.56	...	...
2.—YSTWYTH. 7 sq. mi.								
3.—WYE. 37 sq. mi.								
D	Birmingham W.W. (Bod-Talog)	C. A. Risbridger, Esq., C.E.	SN(22)868749	1250	65.8	88.13	225	202
M	§Birmingham W.W. (Glan-Fedwen)	C. A. Risbridger, Esq., C.E.	SN(22)871759	1375	67.7	90.53	...	...
M	Llangurig (Dernol)	E. W. Price, Esq., for M.O.	SN(22)914747	870	...	63.35	...	...
D	Llangurig (Manod)	Capt. M. Bennett-Evans*	SN(22)840827	1050	...	99.11	207	184
W	Llangurig (Cefn-Brwyn)	Mr. I. Morgans*	SN(22)830837	1125	...	109.48	...	...
4.—SEVERN. Right Bank Tributaries. 154 sq. mi.								
D	Llanidloes (Hillfield)	G. E. Edwards, Esq.	SN(22)952840	550	41.5	46.69	176	142
d	Newtown (Mochdre Reservoir)	Surveyor	SO(32)079871	650	...	41.63	172	164
d	Hafren Lodge	Forestry Commission**	SN(22)889853	800	...	72.74	153	147
W	Plynlimon (Severn Weir)	Severn River Board	SN(22)850872	1090	...	99.54	...	...
W	Blaen Hafren	Severn River Board	SN(22)835884	1425	...	116.88	...	...
M	Clywedog (Cwm Biga)	Severn River Board	SN(22)857890	1015	73.9	90.75	...	...
d	Clywedog (Aber Biga)	Severn River Board	SN(22)886898	900	58.7	71.41	...	136
M	Clywedog (Hafod Cadwgan)	Severn River Board	SN(22)959905	1150	76.7	93.45	...	...
M	Clywedog (Dol Bachog)	Severn River Board	SN(22)884936	1030	59.7	63.05	...	...
d	Newtown (Penarth Weir)	British Waterways	SO(32)136925	321	35.0	36.92	...	...
d	Kerry (The Forest)	J. E. M. Dugdale, Esq.	SO(32)131894	700	...	39.47	...	...
5.—SEVERN. Left Bank Tributaries. 479 sq. mi.								
D	Newtown (Gregynog Hall Gardens)	G. C. Austin, Esq.	SO(32)079969	650	...	39.77	196	149
D	Berriew (Brithdir Hall)	C. L. J. Humphreys, Esq.		350	30.7	33.38	168	142
d	Welshpool (Fron Llwyd)	Col. G. B. D. Harrison	SJ(33)215077	500	33.7	34.20	149	133
D	Gam (Cwm Derwen)	Severn River Board	SH(23)954053	960	...	68.35	...	...
M	Gam (Abercannon Farm)	Severn River Board	SH(23)962069	800	...	73.26	209	180
M	Gam (Afon Cannon)	Severn River Board	SH(23)949079	1120	...	(77.65)	...	...
D	Twrch (Dol y Gaseg)	Severn River Board	SH(23)969149	810	...	85.18	203	182
M	Twrch (Cerniau)	Severn River Board	SH(23)951169	1160	...	89.10	...	...
M	Afon Twrch	Severn River Board	SH(23)941180	1390	...	88.90	...	...
D	Llansantffraid (Pen-y-Sarn)	Comdr. B. Davies, R.N. (Ret'd)	SJ(33)209179	300	...	34.93	172	137
M	Lake Vyrnwy (Cownwy Dam)	Liverpool Corpn. W.W.	SJ(33)000181	929	55.7	71.64	...	...
D	Lake Vyrnwy	British Waterways	SJ(33)018189	770	54.0	65.00	210	179
M	Lake Vyrnwy (Hen Gerig)	Liverpool Corpn. W.W.	SH(23)968188	1230	71.7	88.02	...	...
M	Lake Vyrnwy (Bryn Gwyn)	Liverpool Corpn. W.W.	SH(23)999196	1311	56.7	77.80	...	...
D	LAKE VYRNWY (Experimental Stn.)(+A)	Liverpool Corpn. W.W.	SJ(33)016192	995	55.5	67.27	211	182
D	Lake Vyrnwy (Bank Cynon Isaf)	Liverpool Corpn. W.W.	SJ(33)018191	750	55.3	63.13	207	172
M	Lake Vyrnwy (Fron Goch)	Liverpool Corpn. W.W.	SJ(33)000213	835	...	75.11	...	...
M	Lake Vyrnwy (Ty Uchaf)	Liverpool Corpn. W.W.	SH(23)998215	860	58.1	75.30	...	...
M	Lake Vyrnwy (Heol-y-ffridd)	No. 1 Liverpool Corpn. W.W.	SH(23)974215	913	...	85.51	...	...

*Per Wye River Board.

**Per Severn River Board.

DIVISION XI—MONMOUTHSHIRE, WALES, AND THE ISLANDS—(contd.)

STATIONS			AUTHORITIES		Rain-gauge site		Average Rain-fall	1957		
					National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
MONTGOMERYSHIRE—(contd.)						ft.	in.	in.		
5.—SEVERN—(contd.)										
M	Lake Vyrnwy (Heol-y-ffridd) ..	No. 2	Liverpool Corpn. W.W.	..	SH(23)976215	830	...	83.93	...	...
M	Lake Vyrnwy (Tyn-y-ffridd) ..	..	Liverpool Corpn. W.W.	..	SJ(33)040213	1010	...	67.22	...	...
M	Lake Vyrnwy (Lluestwen) ..	No. 2	Liverpool Corpn. W.W.	..	SH(23)971202	1620	...	94.72	...	...
M	Lake Vyrnwy (Llwynrhiw) ..	..	Liverpool Corpn. W.W.	..	SH(23)975207	1428	...	95.79	...	...
M	Lake Vyrnwy (Nant Cawell) ..	..	Liverpool Corpn. W.W.	..	SH(23)936208	1610	77.4	102.32	...	...
M	§Lake Vyrnwy (Hirnant) ..	..	Liverpool Corpn. W.W.	..	SJ(33)048225	766	...	63.86	...	...
M	Lake Vyrnwy (Eunant Bridge) ..	..	Liverpool Corpn. W.W.	..	SH(23)962224	830	...	85.12	...	...
M	Lake Vyrnwy (Gadfa) ..	..	Liverpool Corpn. W.W.	..	SH(23)928232	1521	81.4	103.98	...	...
M	Lake Vyrnwy (Carreg Goch) ..	..	Liverpool Corpn. W.W.	..	SH(23)974237	1780	66.1	82.35	...	...
M	Lake Vyrnwy (Rhiwargor) ..	..	Liverpool Corpn. W.W.	..	SH(23)961242	860	...	82.68	...	...
M	Lake Vyrnwy (Hen Eglwys) ..	..	Liverpool Corpn. W.W.	..	SH(23)993253	1420	...	76.73	...	...
M	Lake Vyrnwy (Stone) ..	..	Liverpool Corpn. W.W.	..	SH(23)940263	1499	72.2	87.69	...	...
M	§Lake Vyrnwy (Fawnog) ..	..	Liverpool Corpn. W.W.	..	SJ(33)014219	1315	55.7	72.19	...	...
M	Lake Vyrnwy (Pennant Melangell) ..	..	Liverpool Corpn. W.W.	..	SJ(33)023265	660	...	68.79	...	...
M	Lake Vyrnwy (Erw Berfedd) ..	..	Liverpool Corpn. W.W.	..	SH(23)978264	1800	...	96.19	...	...
d	Pen-y-bont (Rhiwlas) ..	..	Liverpool Corpn. W.W.	..	SJ(33)114260	748	...	49.97	...	...
FLINTSHIRE. (Area, 256 sq. mi.)										
1.—DEE. 198 sq. mi.										
D	Hanmer (Gredington) ..	..	Lady Kenyon	..	SJ(33)447386	300	30.4	34.73	170	148
D	Mold (Mount Pleasant) ..	..	W. K. Lewis, Esq., C.E.	..	SJ(33)256663	503	...	34.87	184	150
D	Cilcain (No. 2 Reservoir) ..	..	Hawarden & Dist. W.W. Co.	..		785	...	37.07	203	159
w	Cilcain (No. 4 Reservoir) ..	..	Hawarden & Dist. W.W. Co.	..		900	...	37.95	...	...
D	Northop (Soughton Hall) ..	..	R. W. Bankes, Esq.	..		418	32.1	36.35	196	150
d	Cilcain (Cilcen Hall) ..	..	Miss W. Yates	..		700	29.7	34.67	...	152
D	Connah's Quay (Penglwyllys) ..	..	W. K. Lewis, Esq., C.E.	..	SJ(33)287683	231	...	30.16	180	142
D	HAWARDEN BRIDGE ..	..	Messrs. J. Summers & Sons	..	SJ(33)322693	17	24.3	27.33	169	124
d	Halkyn (Bryn Awel) ..	..	Halkyn District Mines Ltd.	..		870	...	38.22	...	...
d	||Mostyn ..	..	Darwen & Mostyn Iron Co.	..	SJ(33)159808	4	...	31.38	161	132
2.—CLWYD. 51 sq. mi.										
D	Bodfari (Nantlys) ..	..	A. D. H. Pennant, Esq.	..	SJ(33)081711	178	27.4	27.19	176	121
D	Tremeirchion (St. Beuno's College) ..	..	Procurator	..	SJ(33)080742	450	...	33.61	184	149
D	St. ASAPH (Dwilig Isaf Nursery) ..	..	Forestry Commission	..	SJ(33)045763	75	...	29.17	166	127
d	Dyserth (Penlee) ..	..	L. Wilson, Esq.	..	SJ(33)058783	260	...	29.22	193	135
D	RHYL (Westbourne Avenue) ..	(+A)	Urban District Council	..	SJ(33)002807	31	25.8	26.60	171	129
D	Rhyl (Dyserth Road) ..	..	H. Wilson, Esq.	..	SJ(33)024812	35	...	29.18	203	140
D	PRESTATYN ..	..	Urban District Council	..	SJ(33)065831	18	...	28.06	176	133
3.—SEVERN. Left Bank Tributaries. 7 sq. mi.										
DENBIGHSHIRE. (Area, 668 sq. mi.)										
1.—DEE. 270 sq. mi.										
D	Chirk (Old Vicarage) ..	..	Miss D. C. Jagger	..	SJ(33)293376	350	33.1	38.43	180	141
D	Llangollen (Vivod) ..	..	H. G. Best, Esq.	..	SJ(33)191424	640	36.5	40.97	196	155
D	RUABON (Acrefair) ..	..	Monsanto Chemicals Ltd.	..	SJ(33)273425	312	...	36.84	174	139
D	§Wrexham W.W. (Penycae) ..	..	Engineer	..	SJ(33)269454	678	...	41.84	200	158
M	§Wrexham W.W. (Bryn Adda) ..	..	Engineer	..	SJ(33)250453	1214	...	44.86	...	...
M	§Wrexham W.W. (Ruabon Mountain) ..	..	Engineer	..	SJ(33)237457	1634	...	46.63	...	...
M	Wrexham W.W. (Mountain Lodge) ..	..	Engineer	..		1100	...	45.92	...	...
d	Wrexham W.W. (Ty Mawr Res.) ..	..	Engineer	..	SJ(33)274480	805	...	36.25	...	...
d	Wrexham W.W. (Pack Saddle Res.) ..	..	Engineer	..	SJ(33)305479	370	32.0	34.14	180	139
d	Wrexham W.W. (Cae Llwyd Res.) ..	..	Engineer	..	SJ(33)269482	918	...	41.49	...	...

§ Turf wall round gauge.

|| Site unorthodox.

DIVISION XI—MONMOUTHSHIRE, WALES, AND THE ISLANDS—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957		
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
DENBIGHSHIRE—(contd.)					ft.	in.	in.		
1.—DEE—(contd.)									
M	Wrexham W.W. (World's End)	..	Engineer	SJ(33)242481	1573	...	47.60	...	...
M	§Wrexham W.W. (Erwau)	..	Engineer	SJ(33)262488	1160	...	47.63	...	...
M	Wrexham W.W. (Gwter Siani)	..	Engineer	SJ(33)248494	1503	...	46.98	...	...
M	§Wrexham W.W. (Abersychnant)	..	Engineer	SJ(33)232498	1370	...	47.89	...	...
M	Wrexham W.W. (Minera)	..	Engineer	SJ(33)262508	1400	...	45.99	...	...
D	WREXHAM (Grove Park School) (+A)	..	Headmaster	SJ(33)338507	273	...	30.43	175	128
D	Wrexham (Camberley Drive)	..	R. Scutt, Esq.	SJ(33)242513	268	...	31.28	181	129
D	Wrexham W.W. (Pendinas Reservoir)	..	Engineer	SJ(33)232518	1249	...	46.15	200	162
D	BWLCHGWYN	..	Engineer	SJ(33)236520	1267	...	47.26	203	165
D	Wrexham W.W. (Nantyfrith Reservoir)	..	Engineer	SJ(33)243534	1040	...	46.14	200	164
D	Wrexham W.W. (Llyncyfynwy)	..	Engineer	SJ(33)223545	1130	...	43.58	199	164
d	Llanferres (Coed Clwyd Forest)	..	Forestry Commission	860	...	42.40	...	...	...
D	Llanfihangel-glyn-myfyr	..	W. K. Lewis, Esq., C.E. ..	SH(23)986491	898	...	46.44	208	169
D	River Alwen (Alwen Filter House)	..	W. K. Lewis, Esq., C.E. ..	SH(23)958528	1100	46.4	52.91	213	176
M	River Alwen (Craig-yr-lyrchen)	..	W. K. Lewis, Esq., C.E. ..	SH(23)938523	1500	...	(59.55)	...	...
D	River Alwen (Alwen Dam)	..	W. K. Lewis, Esq., C.E. ..	SH(23)955528	1189	49.1	55.84	213	184
D	River Alwen (Hafod-y-llan-isaf)	..	W. K. Lewis, Esq., C.E. ..	SH(23)957529	1180	47.8	55.81	213	183
M	River Brenig (Pentre-draw)	..	W. K. Lewis, Esq., C.E. ..	1100	...	47.68	...	...	...
M	River Alwen (Mwdwl-eithen)	..	W. K. Lewis, Esq., C.E. ..	SH(23)935535	1317	...	60.16	...	...
M	River Brenig (Elor-garreg-uchaf)	..	W. K. Lewis, Esq., C.E. ..	SH(23)964539	1240	...	57.04	...	...
M	River Alwen (Coed Tai Isaf)	..	W. K. Lewis, Esq., C.E. ..	SH(23)944544	1215	...	57.35	...	...
	Pentre Voelas (Nant Heilyn)	..	W. K. Lewis, Esq., C.E. ..	SH(23)925554	1225	49.2	(62.18)	...	...
M	River Alwen (Tan-y-graig)	..	W. K. Lewis, Esq., C.E. ..	SH(23)935563	1100	...	57.62	...	...
M	River Alwen (Cottage Bridge)	..	W. K. Lewis, Esq., C.E. ..	SH(23)920562	1200	...	56.34	...	...
	Nantglyn (Pant-y-maen)	..	W. K. Lewis, Esq., C.E. ..	SH(23)977587	1320	50.3	58.39	...	...
	Llyn Brân	..	W. K. Lewis, Esq., C.E. ..	SH(23)960593	1428	52.1	60.66	...	...
2.—CLWYD & C. 267 sq. mi.									
D	Clawdd-newydd No. 2	..	W. K. Lewis, Esq., C.E. ..	SJ(33)078521	983	37.5	40.74	179	160
W	Ruthin (Corwen Road)	..	W. K. Lewis, Esq., C.E. ..	SJ(33)125556	234	...	31.35	...	...
	Llyn Aled	..	J. Round, Esq., A.M.I.C.E. ..	SH(23)916579	1228	46.3	57.15	...	...
D	Ruthin (Bwlch Tunnel)	..	W. K. Lewis, Esq., C.E. ..	SJ(33)164580	908	...	35.52	227	164
	Llyn Aled (Moel-y-Bryniau)	..	J. Round, Esq., A.M.I.C.E. ..	SH(23)913591	1250	46.3	54.51	...	...
D	Denbigh (Mental Hospital)	..	Clerk & Steward	SJ(33)051653	316	...	30.67	181	147
	Denbigh (Groes Hall)	..	E. K. Turnour, Esq.	SJ(33)009648	650	...	37.75	...	...
D	Llangwyfan (Hospital)	..	Hospital Secretary	SJ(33)122661	460	...	31.84	195	141
	Llanefydd (Dolwen Res., South)	..	J. Round, Esq., A.M.I.C.E. ..	SH(23)972702	600	...	38.64	...	...
	Llanefydd (East)	..	J. Round, Esq., A.M.I.C.E. ..	SH(23)974706	570	...	39.06	...	...
D	Llanefydd (Plas Uchaf Res.)	..	J. Round, Esq., A.M.I.C.E. ..	SH(23)968712	485	...	37.77	193	153
D	Llanefydd (Glascoed Filter Station)	..	J. Round, Esq., A.M.I.C.E. ..	SH(23)996736	360	...	32.73	186	139
D	COLWYN BAY (Eirias Park)	..	Borough Surveyor	SH(23)857786	118	28.9	38.00	184	152
3.—CONWAY. 84 sq. mi.									
D	Pentre Voelas (Voelas Hall)	..	Col. J. C. Wynne Finch ..	644	53.2	60.48	213	182	
D	Tal-y-Cafn (Bodnant)	..	Lord Aberconway, C.B.E. ..	170	37.0	38.03	195	160	
4.—SEVERN. Left Bank Tributaries. 47 sq. mi.									
D	Llansilin (Pengwely Reservoir)	..	Borough Surveyor	SJ(33)222322	1055	...	44.59	184	156
MERIONETHSHIRE. (Area, 661 sq. mi.)									
1.—DEE. 218 sq. mi.									
M	Cwm Hirnant (Maesafallen)	..	Dee & Clwyd River Board	SH(23)948308	957	60.8	76.50	...	...
M	§Afon Lliw (Blaen Lliw Isaf)	..	Dee & Clwyd River Board	SH(23)804328	1279	85.6	102.00	...	...
D	Bala (Boys' Grammar School)	..	Dee & Clwyd River Board	SH(23)929361	537	46.9	57.57	188	165

§ Turf wall round gauge.

DIVISION XI—MONMOUTHSHIRE, WALES, AND THE ISLANDS—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
MERIONETHSHIRE—(contd.)				ft.	in.	in.		
1.—DEE—(contd.)								
D	Llandrillo (Crogen)	H. Robertson, Esq.... ..		530	...	54.53	204	172
M	Trawsfynydd (Cwm Prysor)	Central Electricity Auth. ..	SH(23)792383	1300	78.0	88.01	...	...
d	Afon Mynach (Hafod Nwydog) ..	Capt. C. A. Wright, O.B.E.	SH(23)898436	1198	65.3	89.20	187	180
	Derwen (Minfordd)	W. K. Lewis, Esq., C.E. ..	SJ(33)030483	971	...	45.76	...	...
2.—CLWYD. 7 sq. mi.								
3.—GLASLYN. 92 sq. mi.								
D	HARLECH (Hendre)	E. H. Price, Esq., for M.O.	SH(23)599317	754	...	75.76	218	178
M	Trawsfynydd (Cefn Gell-y-Cwm)	Central Electricity Authority	SH(23)705345	665	...	88.30	...	...
	Trawsfynydd (Tyn Twll)	Central Electricity Authority	SH(23)686353	750	...	105.90	...	...
M	Trawsfynydd (Darn Gae)	Central Electricity Authority	SH(23)762368	950	73.8	95.50	...	...
d	Pandy'r Ddwyryd (Main Dam)	Central Electricity Authority	SH(23)677377	650	...	78.44	...	...
w	Tyddyn-y-Gareg (Hendre Mur)	Central Electricity Authority	SH(23)700383	660	...	82.50	...	...
d	Ffestiniog (Hafod Fawr)	Forestry Commission ..		1000	74.6	83.72	203	187
D	\$Llyn Morwynion	Ffestiniog U.D.C.	SH(23)735422	1320	91.5	110.10	211	187
D	\$Manod Ffestiniog	Ffestiniog U.D.C.	SH(23)701422	713	91.4	111.27	222	200
D	\$Ffestiniog (Penmaesllan)	Ffestiniog U.D.C.	SH(23)704449	545	...	92.82	198	184
D	BLAENAU FFESTINIOG (County School)	Headmaster	SH(23)701458	750	...	112.84	230	202
D	Blaenau Ffestiniog (Oakeley Quarry)	G. W. Humphreys, Esq. ..	SH(23)692472	1100	106.5	120.43	214	203
D	Blaenau Ffestiniog (Llechwedd Quarry)	Messrs. J. W. Greaves & Son	SH(23)699470	700	101.1	124.06	219	195
4.—MAWDDACH & C. 262 sq. mi.								
D	BARMOUTH	Urban District Council ..	SH(23)611159	10	...	51.26	193	158
D	Arthog (The Crescent)	Eric Parker, Esq.		6	...	55.59	208	170
	Dolgelley (Bronygader)	Lt.-Col. A. E. Jelf-Reveley ..		200	...	80.78	...	...
5.—DOVEY. 82 sq. mi.								
D	Aberdovey (Plas Penhelig)	Mrs. A. Rieben	SN(22)618962	150	43.3	49.81	207	168
D	Pennal (Llwyncelyn)	Lt.-Col. M. V. le P. Trench		30	...	67.18	209	175
D	Aberangell (Gwynynd)	J. Norman Jones, Esq. ..		450	...	78.55	206	181
6.—SEVERN. Left Bank Tributaries.								
CAERNARVONSHIRE. (Area, 572 sq. mi.)								
1.—BARDSEY ISLAND.								
2.—CONWAY & C. 146 sq. mi.								
D	Capel Curig (Gwydyr)	Forestry Commission ..	SH(23)749575	450	...	92.76	201	185
D	Capel Curig (Glyn Curig)	W. S. Parrott, Esq., J.P. ..	SH(23)722585	710	86.7	105.09	231	201
	Lake Cowlyd (Capel Curig)	Central Electricity Authority		1400	92.0	103.31	...	...
	Lake Llugwy	Central Electricity Authority		1820	100.1	116.59	...	...
	Lake Cowlyd (Cowlyd)	Central Electricity Authority	SH(23)737637	1200	83.9	105.16	...	...
d	Lake Eigiau (Dam Site)	Central Electricity Authority	SH(23)724647	1244	...	95.98	...	...
w	Llanbedr-y-Cennin (Melynllyn)	J. A. Edwards, Esq., C.E. ..	SH(23)704658	2065	118.8	131.63	...	...
w	Llanbedr-y-Cennin (Llyndulyn)	J. A. Edwards, Esq., C.E. ..	SH(23)706668	1632	102.7	122.16	...	...
w	Llanbedr-y-Cennin (Plasdulyn)	J. A. Edwards, Esq., C.E. ..	SH(23)753698	509	...	56.45	...	...
d	Conway (Mussel Tanks)	Min. of Agric. & Fisheries	SH(23)785772	50	...	32.12	...	...
D	LLANDUDNO (Cricket Ground)	Medical Officer of Health ..	SH(23)776818	19	28.1	32.27	179	131
3.—MENAI STRAITS. 221 sq. mi.								
D	Edeyrn Tydweiliog (Cefnamwlch)	Brig. W. H. Wynne Finch ..		200	...	54.88	192	166
M	Nantlle (Dorothea Quarry)	Dorothea Slate Quarry Co.	SH(23)497532	300	61.0	71.55	...	...

§ Turf wall round gauge.

DIVISION XI—MONMOUTHSHIRE, WALES, AND THE ISLANDS—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
CAERNARVONSHIRE—(contd.)				ft.	in.	in.		
3.—MENAI STRAITS—(contd.)								
D	Llandwrog (Glynllifon Gardens)	.. Glynllifon Agric. Institute ..	SH(23)455555	110	44·7	50·42	192	170
D	Bethesda (Penrhyn Quarries)	.. General Manager ..		527	...	73·03	212	174
D	Port Dinorwic (Vaynol)	.. Sir Michael Assheton-Smith ..	SH(23)538693	100	...	52·15	183	157
D	Bangor (BRYN ADDA)	.. Director, Exp. Hort. Stn. ..	SH(23)563705	275	...	53·93	223	168
D	Bangor (Town Hall)	.. Water Engineer & Surveyor ..		50	...	48·89	188	152
D	ABER (University College Farm)	.. Professor of Agriculture ..	SH(23)650728	60	40·7	46·57	201	161
D	Penmaenmawr (Treforris Road)	.. Mrs. E. H. Leonard ..	SH(23)732770	160	36·1	39·72	212	163
4.—ERCH & C. 155 sq. mi.								
D	Abersoch (Anhywel)	.. F. F. Winterbotham, Esq. ..	SH(23)313297	100	...	45·89	198	161
D	Pwllheli (West End)	.. B. V. Howell, Esq. ..		9	...	39·28	187	147
5.—GLASLYN. 50 sq. mi.								
D	Beddgelert (Primary School)	.. Headmaster ..		133	88·6	107·02	217	196
D	Snowdon (Cwm Dyli)	.. (+ A) Central Electricity Authority	SH(23)654542	310	134·0	153·93	231	205
M	Snowdon (Llewedd)	.. Central Electricity Authority	SH(23)625538	1485	...	192·70	...	...
M	Snowdon (Delta)	.. Central Electricity Authority	SH(23)624544	1435	165·1	214·90	...	...
M	Snowdon (Glaslyn)	.. Central Electricity Authority	SH(23)618545	2050	...	211·90	...	...
M	Snowdon (Teryn)	.. Central Electricity Authority	SH(23)644544	1080	...	181·50	...	...
d	Snowdon (Llydaw Intake)	.. Central Electricity Authority	SH(23)636547	1480	147·1	180·31	...	...
d	Snowdon (L. Llydaw Copper Mine)	.. Central Electricity Authority	SH(23)631548	1480	153·0	204·92	...	...
M	Snowdon (Crib Goch)	.. Central Electricity Authority	SH(23)623550	2340	...	216·60	...	...
ANGLESEY. (Area, 275 sq. mi.)								
D	Bryn-siencyn (Trefarthen)	.. Miss E. Meyrick ..	SH(23)482659	30	...	41·91	186	147
D	Newborough Forest	.. Forestry Commission ..	SH(23)414669	3	...	45·53	195	153
D	Plas Cadnant	.. Major C. Fanning-Evans ..	SH(23)557731	156	...	53·13	210	168
d	Llangefni (Glanaber)	.. W. Rowlands, Esq. ..	SH(23)457752	70	...	47·63	...	141
d	Llansadwrn (Treffos)	.. C. P. Vivian-Hampton, Esq. ..	SH(23)547753	318	...	55·51	...	...
D	Llansadwrn (Gadlys Cottage)	.. A. E. C. Morgan, Esq., M.A. ..	SH(23)548758	340	...	55·34	223	170
D	§HOLYHEAD (VALLEY Airfield)	.. (+ A) Meteorological Office ..	SH(23)310758	32	32·9	40·50	197	145
D	Llanerchymedd (Llwydiarth Esgob)	.. T. S. Bown, Esq. ..	SH(23)436843	175	38·1	46·81	202	147
D	Amlwch (Dyffryn Adda)	.. Major C. Fanning Evans ..	SH(23)438913	178	36·3	45·04	193	149
d	Cemaes Bay (Waterworks)	.. Twrcelyn R.D.C. ..	SH(23)377923	300	...	41·19	...	...
ISLE OF MAN. (Area, 227 sq. mi.)								
D	Port St. Mary (The Point)	.. F. Edwards, Esq. ..	SC(24)209671	30	...	35·53	191	143
D	RONALDSWAY Airport	.. (+ A) Meteorological Office ..	SC(24)279688	55	31·0	35·84	185	139
D	Ballagawne Reservoir	.. T. C. Greenfield, Esq., B.Sc. ..	SC(24)237715	365	36·5	41·86	192	146
W	Douglas (Cringle Reservoir)	.. T. C. Greenfield, Esq., B.Sc. ..	SC(24)253743	500	43·2	51·35	...	...
D	DOUGLAS (Borough Cemetery)	.. Borough Surveyor ..	SC(24)382776	284	41·2	43·92	192	149
D	Douglas (Clype Reservoir, Onchan)	.. Water Engineer ..	SC(24)403807	440	43·9	46·34	204	158
D	West Baldwin Reservoir	.. Water Engineer ..	SC(24)358831	475	...	63·89	212	172
M	§Sulby Glen (Block Eary Dam)	.. T. C. Greenfield, Esq., B.Sc. ..	SC(24)388900	620	...	66·81	...	...
	Maughold Head	.. Com'rs of N. Lighthouses ..		230	...	33·45	184	164
D	Sulby (Filter House)	.. T. C. Greenfield, Esq., B.Sc. ..	SC(24)380933	106	...	47·87	189	158
D	Ramsey (Ballure Reservoir)	.. T. C. Greenfield, Esq., B.Sc. ..	SC(24)455930	245	...	55·99	223	165
D	POINT OF AYRE	.. Lightkeeper, for M.O. ..	NX(25)467043	30	...	34·19	186	131
†CHANNEL ISLANDS. (Area, 76 sq. mi.)								
JERSEY. 45 sq. mi.								
D	St. Saviour (Petit Ménéage)	.. G. J. Robin, Esq. ..	WV(554)662482	30	...	28·06	176	132
D	ST. HELIER (Harbour Office)	.. Greffier ..	WV(554)651483	28	...	26·66	163	117

§ Turf wall round gauge.

† Universal Transverse Mercator Grid Zone 30U.

DIVISION XI—MONMOUTHSHIRE, WALES, AND THE ISLANDS—(contd.)

STATIONS	AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
		National grid reference	Altitude		Rain fall	Days with .01 in. or more	Days with .04 in. or more
†CHANNEL ISLANDS—(contd.)			ft.	in.	in.		
JERSEY—(contd.)							
D St. Helier (St. Louis Observatory) (+A)	Rev. Father C. Rey, S.J.* ..	WV(554)661494	180	...	28.94	181	129
D St. Brelade (La Sergenté)	W. Benest, Esq.*	WV(554)567486	194	...	26.98	165	124
D St. Peter (JERSEY AIRPORT) .. (+A)	States of Jersey	WV(554)588508	273	...	28.05	174	130
D St. Lawrence (Beaumont Marsh) ..	R. Burrow, Esq.	WV(554)615499	60	...	31.81	172	136
D Millbrook Reservoir	R. Burrow, Esq.	WV(554)632507	53	...	31.35	170	132
D Grands Vaux Reservoir	R. Burrow, Esq.		272	...	29.88	172	128
D St. Ouen's Manor	Sir Guy Malet de Carteret*	WV(554)584531	260	...	28.66	166	121
D Handois Reservoir	R. Burrow, Esq.	WV(554)632537	272	...	33.66	194	149
D Trinity (States Experimental Farm) ..	States of Jersey*	WV(554)660540	340	...	33.07	174	139
D St. Ouen (Vinchalez)	F. le Maistre, Esq.* ..	WV(554)568555	260	...	28.33	156	135
GUERNSEY. 25 sq. mi.							
D Haut Nez	W. H. Morgan, Esq. ..	WV(554)311762	340	...	31.87	183	134
d Kings Mills	W. H. Morgan, Esq. ..		45	...	31.23	156	127
D Les Quartiers	A. Higgs, Esq.	WV(554)324805	60	...	30.20	165	128
D GUERNSEY (STATES AIRPORT) ..	Commandant	WV(554)294759	340	...	31.41	168	123
D Sark (La Clôture)	W. J. Roe, Esq.		300	...	29.05	178	140

Scotland

DIVISION XII—SOUTHERN COUNTIES

WIGTOWNSHIRE. (Area, 488 sq. mi.)

1.—LOCH RYAN. 46 sq. mi.									
D Castle Kennedy (Lochinch)	The Earl of Stair	NX(25)113607	85	...	47.94	201	171		
D Stranraer Filters	Burgh Surveyor	NX(25)036619	227	...	46.79	220	167		
2.—WESTERN GALLOWAY. 44 sq. mi.									
D Corsewall	Com'rs of N. Lighthouses ..		48	34.1	37.00	169	152		
3.—LUCE BAY. 186 sq. mi.									
d Port William (Monreith)	Monreith Estate Company	NX(25)361433	145	38.5	41.89	186	149		
w Glenluce (Dunragit)	Dept. of Agriculture		341	...	40.61	...	...
D Glenluce (Camrie Farm)	James Gordon, Esq.		352	...	45.31	232	173		
4.—CREE & WIGTOWN BAY. 212 sq. mi.									
D Garlieston (Galloway House)	P. H. Fletcher, Esq.	NX(25)474455	30	39.1	43.07	186	143		
D Garlieston (Culderry)	Capt. A. Walmsley	NX(25)476467	25	...	40.28	182	145		
w Kirkcowan (Craighlaw)	Mrs. S. R. Fleming-Hamilton	NX(25)306610	300	48.3	44.03	...	...
D Newton Stewart (Little Barraer) ..	H. P. Hawthorn, Esq. ..	NX(25)381619	180	44.8	43.78	202	155		

KIRKCUDBRIGHTSHIRE. (Area, 902 sq. mi.)

1.—DOON. 16 sq. mi.									
2.—CREE & WIGTOWN BAY. 222 sq. mi.									
D Borgue (Roberton)	J. Douglas Brown, Esq., O.B.E.	NX(25)600486	50	39.8	41.07	183	148		
D Kirrourgtree Forest	Forestry Commission ..	NX(25)455649	50	...	57.79	197	176		

* Per R. Burrow, Esq.

† Universal Transverse Mercator Grid Zone 30U.

DIVISION XII—SOUTHERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
KIRKCUDBRIGHTSHIRE—(contd).				ft.	in.	in.		
3.—DEE. 377 sq. mi.								
D	Threave	National Trust of Scotland		275	...	45.64	197	159
D	GLENLOCHAR	S. of Scotland Electricity Bd.	NX(25)732646	154	...	45.38	193	159
D	Mossdale (Hensol)	The Marchioness of Ailsa ..	NX(25)675697	200	51.7	50.72	188	156
d	Laggan of Dee	S. of Scotland Electricity Bd.	NX(25)573746	550	...	68.65	...	161
D	New Galloway (Wellwood)	W. McClure, Esq.	NX(25)633776	232	...	52.34	217	164
D	Craigenallie	S. of Scotland Electricity Bd.	NX(25)504779	740	80.1	82.62	224	189
w	Loch Dee	S. of Scotland Electricity Bd.	NX(25)479792	800	81.5	83.87	...	...
D	|| Dalry (GLENLEE)	(+A) S. of Scotland Electricity Bd.	NX(25)607805	181	...	57.58	205	159
D	Dalry (Garroch)	W. A. Lockhart, Esq. ..	NX(25)593810	250	59.7	49.27	199	165
D	Dalry (Creaganfois)	G. E. Mackenzie, Esq. ..	NX(25)629817	410	...	49.30	217	164
D	Dalry (Forrest Lodge)	R. M. Watson, Esq. ..	NX(25)555866	500	63.2	70.09	220	183
D	Dalry (Kendoon)	S. of Scotland Electricity Bd.	NX(25)615884	520	...	49.28	212	162
D	Carsphairn (Finland)	S. of Scotland Electricity Bd.	NX(25)670902	940	51.1	51.61	246	174
D	Carsphairn (The Knowe)	J. A. Hunter, Esq.	NX(25)561934	550	...	57.29	201	180
D	Carsphairn (Cornharrow)	S. of Scotland Electricity Bd.	NX(25)668930	810	53.6	56.56	219	189
D	Carsphairn (Knockengarroch)	S. of Scotland Electricity Bd.	NX(25)556971	740	58.2	54.01	212	177
D	Carsphairn Moor	S. of Scotland Electricity Bd.	NX(25)569035	790	65.6	67.07	236	196
4.—URR & C. 196 sq. mi.								
D	Auchencairn (Daffin Cottage)	Mrs. M. C. Milligan ..	NX(25)798516	50	...	47.73	202	169
M	Auchencairn (Torr House)	Thomas Ovens, Esq. ..	NX(25)800527	50	47.1	48.46	...	...
D	CASTLE DOUGLAS (The Leaths)	Imperial Chem. Indust. Ltd.	NX(25)789629	196	...	41.40	186	152
D	Castle Douglas (Corbieten)	Miss A. G. Biggar		175	...	43.26	187	152
D	Chipperkyle	Miss Isobel Pollok-Morris..		310	...	47.24	202	160
5.—NITH & C. 91 sq. mi.								
D	Lochrutton (Dumfries Waterworks)	J. R. Whyte, Esq., C.E. ..	NX(25)901743	273	...	45.70	213	163
D	Glenkiln Reservoir	J. R. Whyte, Esq., C.E. ..	NX(25)851776	450	...	54.98	187	175
DUMFRIESSHIRE. (Area, 1,074 sq. mi.)								
1.—CLYDE. Right Bank Tributaries. 5 sq. mi.								
M	§ Daer (Whiteholm)	Water Engineer, Lanarkshire		1360	...	75.33	...	...
2.—URR. 6 sq. mi.								
3.—NITH & C. 421 sq. mi.								
D	RUTHWELL (Comlongon Castle)	The Earl of Mansfield ..	NY(35)078691	95	35.5	36.86	198	156
D	§ DUMFRIES (Crichton Royal Institute)	Physician Superintendent ..	NX(25)980746	140	39.1	42.41	195	153
D	Blackwood	T. H. Kennedy, Esq. ..		100	41.1	45.63	192	158
D	Moniaive (Hunter's Lodge)	P. A. Ledward, Esq. ..		320	...	45.69	228	163
M	Eucharhead	County Engineer	NS(26)683057	1370	77.6	76.86	...	...
D	Eucharbank	County Engineer		1080	...	68.47	235	194
M	§ Benzien Craig	County Engineer	NS(26)723067	990	...	57.19	...	...
M	Poltallan Burn	County Engineer	NS(26)692075	1550	...	68.25	...	...
D	Durrisdeer (Drumlanrig)	Master of Works	NX(25)851992	191	43.6	43.72	221	160
D	Kirkconnel (Fauldhead)	National Coal Board ..	NS(26)735123	530	...	45.71	197	161
4.—ANNAN. 367 sq. mi.								
d	Annan (Chapelcross Works)	Messrs. Merz & McLellan..		295	...	(40.55)	(198)	(160)
D	Dalton (Kirkwood)	Captain J. Steel		260	...	42.48	207	153
D	Parkgate (Glenview)	Forestry Commission ..		538	...	53.32	204	170
M	Forest of Ae (Cran Loch)	Forestry Commission ..		1100	...	57.75	...	...
d	Moffat (St. Margaret's)	James Corbett, Esq. ..	NT(36)068038	463	...	51.81	180	161

§ Turf wall round gauge.

|| Gauge over-sheltered.

DIVISION XII—SOUTHERN COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957		
				National grid reference	Altitude		Rain-fall	Days with ·01 in. or more	Days with ·04 in. or more
DUMFRIESSHIRE—(contd.)					ft.	in.	in.		
5.—ESK. 275 sq. mi.									
D	Eaglesfield (Springkell Gardens)	..	Lt.-Col. R. Johnson-Ferguson	NY(35)255751	303	41·3	43·49	217	172
D	Half Morton (Solway Bank)	..	Major B. Johnson-Ferguson	NY(35)308775	455	...	44·94	210	163
D	Canonbie (Irvine House)	..	Capt. J. G. Milne-Home	NY(35)374807	200	46·5	44·97	203	166
D	Winterhope	..	County Engineer		570	...	52·56	252	171
D	Langholm (Craigcleuch)	..	J. B. Robertson, Esq.		490	...	52·30	242	172
D	Eskdalemuir (Sandyford)	..	County Engineer		728	49·0	51·68	264	194
M	Eskdalemuir (Fauldbrae)	..	County Engineer		930	...	51·76	...	...
M	Eskdalemuir (Cairn Knowe)	..	County Engineer		1107	58·2	56·37	...	...
M	Eskdalemuir (Blakeskhead)	..	County Engineer		797	53·5	56·83	...	...
M	§Eskdalemuir (Peat Rig)	..	County Engineer		1251	63·0	66·49	...	...
M	Eskdalemuir (Garwaldshiels)	..	County Engineer		941	56·9	57·71	...	...
M	§Eskdalemuir (Monkingshaw Knowe)	..	County Engineer		1054	61·8	64·97	...	...
D	Eskdalemuir (Johnstone House)	..	Lady Lethem		650	52·5	53·96	213	163
M	§Eskdalemuir (Jock's Shoulder)	..	County Engineer		1757	65·4	68·93	...	...
D	ESKDALEMUIR Observatory	.. (+A)	Meteorological Office	NT(36)235026	794	56·3	59·74	229	173
ROXBURGHSHIRE. (Area, 666 sq. mi.)									
1.—NORTH TYNE. 6 sq. mi.									
2.—TWEED. LOWER. Right Bank Tributaries. 57 sq. mi.									
D	Yetholm (Old Graden)	..	P. S. Short, Esq.		500	...	26·96	180	137
D	Cheviot Hills (SOURHOPE)	.. (+A)	Hill Farming Research Org'n	NT(36)843203	900	...	33·36	203	150
3.—TWEED. Teviot & c. 431 sq. mi.									
d	Roberton (Craik)	..	J. R. Harkness, Esq.		725	...	53·12	181	163
D	HAWICK (WAUCHOPE)	..	Forestry Commission	NT(36)587097	560	...	29·97	176	144
D	Hawick Sewage Works	..	Tweed River Purification Bd.		315	...	28·53	194	133
D	Denholm (Spital Tower)	..	J. G. Leadbetter, Esq.	NT(36)587182	425	32·7	28·05	206	141
d	Jedburgh (Jedneuk)	..	Capt. J. S. Aikman, M.C.		270	26·3	22·55	167	119
D	Crailling	..	Mr. J. Y. Burns	NT(36)687243	190	27·6	24·35	175	122
D	Ancrum (Monteviot)	..	Capt. J. S. Aikman, M.C.		210	29·8	23·81	142	119
4.—TWEED. Ettrick & c. 10 sq. mi.									
D	Melrose (Dingleton Hospital)	..	Superintendent		480	30·8	24·43	181	113
5.—TWEED. Gala. 6 sq. mi.									
6.—TWEED. Leader & c. 25 sq. mi.									
7.—TWEED. LOWER. Left Bank Tributaries. 25 sq. mi.									
D	KELSO (FLOORS)	..	The Duke of Roxburghe	NT(36)707345	195	26·0	24·72	179	131
8.—ESK. 106 sq. mi.									
w	Newcastleton Forest	..	Forestry Commission	NY(35)551878	800	48·5	48·03	...	...

DIVISION XIII—SOUTH-EASTERN COUNTIES

SELKIRKSHIRE. (Area, 268 sq. mi.)

1.—TWEED. Teviot & c. 34 sq. mi.

§ Turf wall round gauge.

DIVISION XIII—SOUTH-EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
SELKIRKSHIRE—(contd.)				ft.	in.	in.		
2.—TWEED. Ettrick & c. 192 sq. mi.								
D	Ettrick School	Tweed River Purification Bd.	NT(36)266145	745	...	58.95	232	176
D	SELKIRK (BOWHILL)	Buccleugh Estates Ltd. ..	NT(36)427273	600	...	32.86	203	145
d	Selkirk (Burn Mill)	County Surveyor	NT(36)462286	390	...	31.55	193	149
d	Selkirk (Byethorn)	Tweed River Purification Bd.	NT(36)475286	600	...	29.64	...	140
	Selkirk (Broomhill)	C. Mackenzie, Esq. ..		575	...	28.81	...	...
D	Yarrow School	Tweed River Purification Bd.	NT(36)343264	700	...	34.97	204	144
D	Thirlestane Castle	Comdr. The Hon. N. Napier		785	55.6	55.66	229	180
M	§Edinburgh W.W. (Megget Head)	Edinburgh Water Engineer	NT(36)152199	1496	...	64.20	...	...
D	Walkerburn (Elibank)	Sir John Milne Home ..		440	...	33.36	188	158
3.—TWEED. UPPER. Right Bank Tributaries. 17 sq. mi.								
4.—TWEED. UPPER. Left Bank Tributaries. 19 sq. mi.								
D	Caddonfoot (Fairmile)	Mr. A. Bruce		450	32.5	33.12	201	148
D	Galashiels (Sewage Works) ..	Tweed River Purification Bd.		316	...	25.72	191	125
M	§Galashiels (Knowsdean Reservoir)	Water Superintendent ..	NT(36)437393	892	...	36.19	...	...
M	§Galashiels (Craig Head)	Water Superintendent ..	NT(36)417403	900	...	38.25	...	...
M	§Galashiels (Caddonhead)	Water Superintendent ..	NT(36)401410	1050	...	39.60	...	...
5.—TWEED. Gala. 6 sq. mi.								
PEEBLESSHIRE. (Area, 348 sq. mi.)								
1.—TWEED. UPPER. Right Bank Tributaries. 127 sq. mi.								
M	Edinburgh W.W. (Ravenscraig) ..	Edinburgh Water Engineer	NT(36)142140	2258	81.1	93.20	...	...
M	§Edinburgh W.W. (Ballaman Hill) ..	Edinburgh Water Engineer	NT(36)095149	1700	58.7	57.90	...	...
M	Edinburgh W.W. (Gameshope Loch)	Edinburgh Water Engineer	NT(36)132162	1900	...	81.90	...	...
M	Edinburgh W.W. (Gameshope Farm)	Edinburgh Water Engineer	NT(36)139176	1538	71.3	76.60	...	...
M	Edinburgh W.W. (Fruid Farm) ..	Edinburgh Water Engineer	NT(36)108182	1020	49.2	52.90	...	...
M	§Edinburgh W.W. (Shiel Hope) ..	Edinburgh Water Engineer	NT(36)092188	1300	51.3	51.00	...	...
M	Edinburgh W.W. (Hawkshaw) ..	Edinburgh Water Engineer	NT(36)085204	1100	48.7	49.30	...	...
M	Edinburgh W.W. (Talla Linns Foot)	Edinburgh Water Engineer	NT(36)133203	966	55.2	60.90	...	...
M	Edinburgh W.W. (Upper Menzion) ..	Edinburgh Water Engineer	NT(36)102207	1020	...	46.40	...	...
M	Edinburgh W.W. (Nether Garelot) ..	Edinburgh Water Engineer		1700	56.0	58.57	...	...
M	§Edinburgh W.W. (The Rig)	Edinburgh Water Engineer	NT(36)090221	1150	46.2	46.30	...	...
M	§Edinburgh W.W. (Quarter Hill) ..	Edinburgh Water Engineer	NT(36)097235	1196	46.4	47.90	...	...
D	Edinburgh W.W. (Victoria Lodge) ..	Edinburgh Water Engineer	NT(36)106231	900	50.0	40.22	214	183
D	BROUGHTON (Stanhope Farm) ..	Animal Breeding Res. Organ'n	NT(36)123296	741	...	42.97	209	166
w	Broughton (Stanhope)	mid-gauge Animal Breeding Res. Organ'n	NT(36)156273	1250	...	56.75	...	...
2.—TWEED. UPPER. Left Bank Tributaries. 192 sq. mi.								
D	Stobo Castle	Mr. Andrew Dunlop ..	NT(36)179368	594	34.9	38.70	227	168
d	PEEBLES (High School)	Rector	NT(36)252397	600	...	30.26	181	127
D	BLYTHBRIDGE (Blythbank)	Animal Breeding Res. Organ'n	NT(36)141463	830	...	35.64	231	159
D	West Linton (Woodlea Cottage) ..	Edinburgh Water Engineer	NT(36)159507	801	35.7	32.96	218	148
D	WEST LINTON (Central School) ..	C. Blacklaw, Esq.	NT(36)150520	800	...	37.12	218	151
D	§West Linton (Baddingsgill Reservoir)	T. Aitken, Esq.		1100	44.6	47.51	241	177
3.—ESK. 23 sq. mi.								
D	Eddleston (Portmore Reservoir) ..	Edinburgh Water Engineer	NT(36)260507	1000	35.2	36.57	240	165
D	Carlops (North Esk Reservoir) ..	J. Gilmour, Esq.		1150	39.5	42.86	225	162
4.—CLYDE. Right Bank Tributaries. 6 sq. mi.								

§ Turf wall round gauge.

DIVISION XIII—SOUTH-EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with ·01 in. or more	Days with ·04 in. or more
BERWICKSHIRE. (Area, 457 sq. mi.)				ft.	in.	in.		
1.—TWEED. Gala. 6 sq. mi.								
2.—TWEED. Leader. 92 sq. mi.								
D	Earlston (Cowdenknowes)	.. .. Mr. James Mackie	NT(36)577372	300	28·8	28·00	145	117
D	Earlston (Carolside)	.. .. Sir John Gilmour, Bart. ..		350	...	25·58	185	127
3.—TWEED. LOWER. Left Bank Tributaries. 115 sq. mi.								
D	Coldstream (Lochton)	.. .. Mrs. Aitchison		150	25·9	23·45	179	132
D	Swinton House	.. .. (+A) Canon A. E. Swinton, M.A.	NT(36)818470	200	26·4	25·22	199	129
4.—TWEED. Whiteadder. 164 sq. mi.								
D	MARCHMONT House	.. .. Sir John McEwen, Bart. ..	NT(36)743484	498	32·2	28·96	203	146
d	Oxtou (Channelkirk School)	.. .. Tweed River Purification Bd.	NT(36)496536	695	...	33·22	...	124
D	Duns Castle	.. .. Col. G. H. Hay	NT(36)775543	500	30·8	27·44	192	127
D	Duns (Manderston)	.. .. Major C. W. H. Bailie ..	NT(36)809547	353	30·7	28·95	185	133
D	Longformacus (Whitchester)	.. .. Mrs. Landale		838	...	30·03	223	141
D	Abbey St. Bathans School	.. .. Tweed River Purification Bd.	NT(36)761620	472	...	32·04	202	132
d	Eyemouth High School	.. .. Tweed River Purification Bd.	NT(36)942641	75	...	21·65	...	...
5.—EAST COAST STREAMS. 80 sq. mi.								
d	Cockburnspath (Redheugh)	.. .. T. S. Dykes, Esq.		288	...	25·85	164	113
EAST LOTHIAN. (Area, 267 sq. mi.)								
1.—TWEED. Leader. 1 sq. mi.								
2.—TWEED. Whiteadder. 35 sq. mi.								
D	Lammermuir Hills (Hungry Snout)	.. Adam Robson, Esq. ..		715	...	36·00	197	135
3.—EAST COAST STREAMS. 69 sq. mi.								
w	Garvald (Donolly Reservoir)	.. Adam Robson, Esq. ..		532	32·8	30·50	...	...
	Garvald (Thorster Reservoir)	.. Adam Robson, Esq. ..		725	...	28·54	...	...
D	DUNBAR (Public Park)	.. .. Burgh Surveyor	NT(36)672791	75	...	22·09	160	106
4.—TYNE & C. 114 sq. mi.								
D	Lammermuir Hills (West Hopes)	.. Adam Robson, Esq. ..		736	34·4	35·15	185	153
w	Lammermuir Hills (Stobshiel Res.)	Adam Robson, Esq. ..		927	...	35·68	...	...
w	Lammermuir Hills (Lammerloch Res.)	Adam Robson, Esq. ..		900	...	34·06	...	...
D	HADDINGTON (Neilson Park)	.. .. Town Council	NT(36)513736	161	...	23·56	174	109
5.—FIRTH OF FORTH. 48 sq. mi.								
D	East Fortune Hospital	.. Clerk of Works		101	23·5	24·75	161	117
d	||North Berwick (Netherheugh)	.. Hector Macpherson, Esq. ..		120	...	24·71	159	118
d	§NORTH BERWICK (Gasworks)	.. .. Town Council	NT(36)538846	118	25·1	25·92	...	...
6.—INSULAR.								
MIDLOTHIAN. (Area, 369 sq. mi.)								
1.—TWEED. Gala. 68 sq. mi.								
D	Stow (Cragdale)	.. .. A. H. Fairgrieve, Esq. ..		642	33·0	32·14	209	153
2.—TYNE. 28 sq. mi.								
D	Ford (The Dowery House)	.. .. A. H. H. Ross, Esq. ..		420	...	26·23	189	129

§ Turf wall round gauge.

|| Gauge over-sheltered.

DIVISION XIII—SOUTH-EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
MIDLOTHIAN—(contd.)				ft.	in.	in.		
3.—FIRTH OF FORTH. 3 sq. mi.								
4.—ESK. 116 sq. mi.								
M	Moorfoot Hills (Bowbate)	Edinburgh Water Engineer	NT(36)297484	1260	...	41.57	...	...
D	Moorfoot Hills (Rosebery)	Edinburgh Water Engineer	NT(36)308570	750	32.1	34.48	200	157
D	PENICUIK	Dr J. T. Baldwin	NT(36)233599	620	...	34.12	214	147
d	Gorebridge	Headmaster		560	29.3	29.19	195	130
M	Pentland Hills (Harehill)	Edinburgh Water Engineer	NT(36)183615	1297	...	39.95	...	...
D	Pentland Hills (Martyr's Cross)	Edinburgh Water Engineer	NT(36)229623	750	35.5	30.93	225	149
D	Pentland Hills (Loganlea)	Edinburgh Water Engineer	NT(36)199626	811	38.5	39.27	209	154
D	Pentland Hills (Glencorse Filters)	Edinburgh Water Engineer	NT(36)225631	638	35.0	33.43	205	152
D	Pentland Hills (Glen Cottage)	Edinburgh Water Engineer	NT(36)223635	739	35.2	33.75	207	154
D	Milton Bridge (BUSH HOUSE)	Edin. & E. of S. Coll. of Agric.	NT(36)244636	605	...	34.38	200	147
D	Newbattle (Public School)	C. D. Walinck, Esq., M.A.		300	25.7	23.64	172	119
5.—ALMOND & C. 153 sq. mi.								
D	Pentland Hills (Crosswood)	Edinburgh Water Engineer	NT(36)056575	950	39.5	40.84	197	158
D	Pateshill Reservoir, <i>old site</i>	T. Aitken, Esq.	NS(26)990593	900	..	34.73	200	147
D	Pateshill Reservoir, <i>new site</i>	T. Aitken, Esq.	NS(26)990592	900	...	44.51	211	165
D	Pentland Hills (Harperrig)	(+A) Edinburgh Water Engineer	NT(36)102611	900	38.8	36.39	213	154
D	Pentland Hills (Morton)	T. Aitken, Esq.	NT(36)074632	749	37.4	40.39	205	155
d	West Calder (Addiewell)	Scottish Oils, Ltd.	NT(36)001626	620	35.7	38.85	181	162
D	BALERNO (Cockburn Farm)	Sir Alick Buchanan-Smith	NT(36)147651	700	...	36.35	173	144
D	Pentland Hills (Clubbiedean Reservoir)	Edinburgh Water Engineer	NT(36)203670	773	30.4	29.59	182	137
D	MIDCALDER (Howden)	(+A) Nat. Inst. Agr. Engineering	NT(36)053676	400	...	31.55	190	136
D	Fairmilehead (Frogston Road)	J. Aitchison, Esq.		600	...	28.69	195	133
D	Fairmilehead (Waterworks)	Edinburgh Water Engineer	NT(36)249683	590	30.8	27.69	179	126
D	Liberton (Alnwick Hill)	(+A) Edinburgh Water Engineer	NT(36)273690	407	28.5	27.34	183	127
M	Liberton (Hawkhead Grove)	G. M. Stuart, Esq., M.B.E.		400	...	27.59	...	...
D	Colinton (Firhill Tank)	Edinburgh Water Engineer	NT(36)226699	412	29.0	28.80	195	136
D	LIBERTON (College Farm)	Edin. & E. Scot. Coll. of Ag.	NT(36)273705	190	27.7	26.12	170	120
d	Liberton (The Inch)	Superintendent of Parks	NT(36)277708	150	...	29.10	211	137
D	Edinburgh (Craiglockhart)	Mrs. Margaret Hedge		295	...	28.88	179	132
D	EDINBURGH (BLACKFORD HILL)	Astronomer Royal for Scot.	NT(36)259706	441	26.3	25.68	175	125
d	Edinburgh (Fountainhall Road)	R. C. Macfarlane, Esq.		225	...	26.80	179	128
D	Edinburgh (Portobello)	A. Hagopian, Esq.		100	...	25.99	179	123
D	TURNHOUSE (Edinburgh Airport)	(+A) Meteorological Office	NT(36)159739	114	25.6	26.61	176	126
d	Edinburgh (Astley Ainslie Institute)	Medical Superintendent		270	27.7	27.49	...	127
D	EDINBURGH (ROYAL BOTANIC GDN.)	Curator	NT(36)247747	74	26.5	25.33	178	126
D	DAVIDSON'S MAINS (Easter Park)	J. W. Younger, Esq.	NT(36)202757	200	...	27.75	184	132
6.—CLYDE. Right Bank Tributaries. 1 sq. mi.								
WEST LOTHIAN. (Area, 120 sq. mi.)								
1.—ALMOND & C. 60 sq. mi.								
M	Uphall	No. 7 W. Lothian Hospital Board		646	...	35.00	...	...
M	Uphall	No. 8 W. Lothian Hospital Board		577	32.7	34.90	...	...
d	Uphall (Middleton Hall)	Scottish Oils Ltd.	NT(36)063716	350	31.4	32.78	...	...
D	Dalmeny House	The Earl of Rosebery	NT(36)168780	20	25.9	26.71	155	131
d	Uphall (Broxburn)	Scottish Oils Ltd.		262	...	31.89	...	...
2.—FORTH. Right Bank Tributaries. 59 sq. mi.								
D	Armadale (Stonerigg Filters)	County Water Engineer	NS(26)933676	620	...	36.56	205	147
D	Armadale (Sewage Works)	Burgh Surveyor	NS(26)938693	417	...	38.91	186	155

|| Gauge over-exposed.

DIVISION XIII—SOUTH EASTERN COUNTIES—(contd.)

STATIONS	AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
		National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
WEST LOTHIAN—(contd.)			ft.	in.	in.		
2.—FORTH. Right Bank Tributaries—(contd.)							
D Bathgate (Northbank Filters)	J. Spalding, Esq.	NS(26)981692	640	33·2	36·92	194	154
D Torphichen (Lochcote)	Wm. Beattie, Esq.	NS(26)974737	550	33·5	36·07	218	156
D Uphall (Beecraigs)	T. Aitken, Esq.		477	...	41·23	201	152
M Carribber Reservoir	Wm. Beattie, Esq.		350	33·1	34·10	...	...
W Linlithgow (Cockleroi Reservoir) ..	Burgh Surveyor		587	...	34·24	...	...
D Linlithgow (Craigenroan)	James Flett, Esq.	NT(36)001766	290	...	32·55	194	150
D Linlithgow (Preston House)	Head Gardener		380	32·6	37·76	223	147
D Linlithgow (Grange)	Col. H. M. Cadell	NT(36)000787	440	30·2	31·83	197	146
3.—CLYDE. Right Bank Tributaries. 1 sq. mi.							

DIVISION XIV—SOUTH-WESTERN COUNTIES

LANARKSHIRE. (Area, 881 sq. mi.)

1.—TWEED. UPPER. Left Bank Tributaries. 20 sq. mi.							
2.—ALMOND. 14 sq. mi.							
3.—FORTH. Right Bank Tributaries. 9 sq. mi.							
D Airdrie (Forrestburn Reservoir) ..	T. Aitken, Esq.	NS(26)874649	735	37·1	41·64	210	174
4.—CLYDE. Right Bank Tributaries. 378 sq. mi.							
M §Daer (Lamb Sike)	County Water Engineer ..		1310	...	72·05	...	...
M §Daer (Whiteburn)	County Water Engineer ..		1250	...	71·91	...	...
D §Daer (Sweetshaw Burn)	County Water Engineer ..		1152	...	62·17	229	184
D §Daer (Garls Craig)	County Water Engineer ..		985	...	64·37	211	183
M §Crawford (Camps Res.) Risingclaw ..	County Water Engineer ..		1610	56·0	60·10	...	...
M §Crawford (Camps Res.) Peat Rig ..	County Water Engineer ..		1485	53·4	55·10	...	...
M §Crawford (Camps Res.) Whitecamp ..	County Water Engineer ..		1155	50·2	47·55	...	...
D Crawford (Camps Reservoir) .. (+A)	County Water Engineer ..		969	44·0	41·87	225	173
M Crawford (Camps Res.) Kneesend ..	County Water Engineer ..		1205	47·0	44·55	...	...
M Crawford (Camps Res.) Hillshaw ..	County Water Engineer ..		1805	54·7	52·60	...	...
M §Crawford (Camps Res.) Linnburn ..	County Water Engineer ..		1210	48·8	48·70	...	...
W Coulter Reservoir	J. Bissett Scott, Esq., C.E. ..		1157	...	40·97	...	...
M Lamington (Cowgill Reservoir) ..	D. T. Brown, Esq., C.E. ..		1012	42·4	48·13	...	...
D Biggar (Huntfield)	Miss Dunlop	NT(36)013402	900	31·5	34·23	201	151
D Bonnington Weir	S. of Scotland Electricity Bd.		572	...	30·97	212	154
D Stonebyres Weir	S. of Scotland Electricity Bd.		306	...	31·43	196	142
D CARNWATH	S.F. Macdonald Lockhart, Esq.	NS(26)980462	706	...	33·66	209	154
D Carluke (Coldstream Reservoir) ..	J. Bissett Scott, Esq., C.E. ..	NS(26)875498	800	...	35·52	227	151
M Carluke (Whitelaw)	J. Barr, Esq.		630	...	33·48	...	...
W Carluke (Springfield Reservoir) ..	J. Bissett Scott, Esq., C.E. ..	NS(26)906520	860	39·5	41·13	...	...
D Carluke (Gair Reservoir)	J. Bissett Scott, Esq., C.E. ..	NS(26)857535	665	34·9	33·69	200	154
M Wishaw (Coronation Street)	A. Hinshelwood, Esq.		510	...	32·77	...	...
d Motherwell (Elvan Street)	M. Dunn, Esq.		175	...	32·81	...	...
D Shotts Reservoir	County Water Engineer ..	NS(26)885603	812	...	43·99	215	166
D Glasgow (Tollcross Park)	G. H. Garside, Esq.	NS(26)639638	84	37·4	38·08	193	159

§ Turf wall round gauge.

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DIVISION XIV—SOUTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957		
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
LANARKSHIRE—(contd.)					ft.	in.	in.		
4.—CLYDE. Right Bank Tributaries—(contd.)									
D	Glasgow Green	G. H. Garside, Esq. ..	NS(26)599645	35	36.0	37.24	194	155	
D	Glasgow (Alexandra Park)	G. H. Garside, Esq. ..	NS(26)617658	141	36.0	38.94	213	159	
D	Glasgow (Botanic Gardens)	G. H. Garside, Esq. ..	NS(26)568675	131	34.7	39.52	204	165	
D	Glasgow (Kelvingrove Park)	G. H. Garside, Esq. ..	NS(26)572666	48	36.1	38.90	197	155	
D	Glasgow (Victoria Park)	G. H. Garside, Esq. ..	NS(26)543673	30	36.1	38.04	204	160	
D	Glasgow (Ruchill Park)	G. H. Garside, Esq. ..	NS(26)578684	228	36.0	40.34	214	168	
D	GLASGOW (SPRINGBURN PARK)	G. H. Garside, Esq. ..	NS(26)610685	351	36.9	42.05	220	164	
M	Clarkston (Roughrigg Reservoir) ..	D. T. Brown, Esq., C.E. ..	NS(26)807639	664	35.8	37.36	...	...
D	Coatbridge (West End Park)	S. Lauder, Esq. ..	NS(26)717638	240	...	37.33	239	155	
D	COATBRIDGE	Sewage Works Manager ..	NS(26)708646	256	...	34.41	194	150	
D	Coatbridge (Whifflet Public Park) ..	S. Lauder, Esq. ..	NS(26)740637	295	...	36.21	201	155	
D	Coatbridge (Dunbeth Public Park) ..	S. Lauder, Esq. ..	NS(26)743654	325	...	35.91	210	159	
D	Airdrie (Broomknoll Street) .. (+A)	D. T. Brown, Esq., C.E. ..	NS(26)762651	402	35.0	35.27	203	157	
D	Gartcosh (Gartloch Hospital)	Mr. Donald McMillan ..	NS(26)673670	291	36.6	38.87	203	159	
D	Bishopbriggs (Springfield Nursery) ..	W. A. Henderson, Esq. ..	NS(26)619700	300	...	40.72	183	158	
5.—CLYDE. Left Bank Tributaries. 448 sq. mi.									
M	§Daer (Upper Carsehope)	County Water Engineer ...		1600	...	73.82	...	...
M	§Daer (Lower Carsehope)	County Water Engineer ..		1180	...	72.43	...	...
D	§Daer (Kirkhope) <i>new site</i>	County Water Engineer ..		1170	...	67.82	226	190	
M	§Daer (Kirkhope Cleuch)	County Water Engineer ..		1350	...	74.13	...	...
M	§Daer (Hitteril)	County Water Engineer ..		950	...	62.26	...	...
M	Elvanfoot (Potrenick Burn)	J. Bissett Scott, Esq., C.E. ..	NS(26)934101	1004	61.5	57.07	...	...
d	Elvanfoot (Peden Reservoir)	J. Bissett Scott, Esq., C.E. ..	NS(26)942123	964	65.1	55.76	...	...
D	LEADHILLS (Muirhouse)	D. Grant, Esq. ..	NS(26)888153	1270	60.9	59.60	235	190	
D	Douglas (Monksfoot)	Miss J. Steele ..	NS(26)787286	780	...	48.56	219	178	
D	COALBURN	Capt. J. Ross ..	NS(26)801338	920	...	50.27	213	175	
D	Strathaven (GLENAGVEL Reservoir) ..	County Water Engineer ..	NS(26)663351	839	47.9	56.33	230	188	
D	Strathaven (Dunside Reservoir) ..	County Water Engineer ..	NS(26)748373	1002	46.3	47.38	209	162	
D	Strathaven (Kype Reservoir)	Water Engineer, Hamilton ..	NS(26)735387	941	46.6	50.04	218	176	
D	Stonehouse (Glassford Filters) <i>old site</i>	County Water Engineer ..	NS(26)708479	775	39.8	43.20	213	165	
D	Stonehouse (Glassford Filters) <i>new site</i>	County Water Engineer ..	NS(26)708479	775	...	46.08	213	169	
D	Hamilton W.W. (Townhill)	Water Engineer, Hamilton ..	NS(26)694546	430	35.6	37.32	199	162	
D	THORNTONHALL (+A)	Building Research Lab. ..	NS(26)590555	453	...	44.81	211	171	
W	Carmunnock (Waterworks)	G. Sime, Esq. ..		540	...	39.81	...	...
D	Bothwell (Sewage Works) (+A)	Sewage Works Manager ..	NS(26)714576	112	...	32.20	195	154	
D	Cambuslang (Greenlees Filters)	County Water Engineer ..	NS(26)640590	322	36.3	40.03	201	157	
D	Glasgow (Linn Park)	G. H. Garside, Esq. ..	NS(26)582592	164	...	38.54	195	158	
D	Glasgow (Rutherglen)	F. C. Thomson, Esq. ..		100	...	41.51	226	168	
D	Glasgow (Queen's Park)	G. H. Garside, Esq. ..	NS(26)578619	147	36.1	36.48	208	159	
D	||Glasgow (Maxwell Park)	G. H. Garside, Esq. ..	NS(26)568631	69	35.7	37.28	215	154	
D	Glasgow (Bellahouston Park)	G. H. Garside, Esq. ..	NS(26)551638	80	34.6	40.05	204	160	
D	Glasgow (Elder Park)	G. H. Garside, Esq. ..	NS(26)543658	25	37.0	41.15	203	164	
6.—IRVINE. 2 sq. mi.									
7.—AYR. 1 sq. mi.									
8.—NITH. 2 sq. mi.									
9.—ANNAN. 7 sq. mi.									

|| gauge over-sheltered

§ Turf wall round gauge.

DIVISION XIV—SOUTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES		Rain-gauge site		Average Rain-fall	1957		
				National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
AYRSHIRE. (Area, 1,135 sq. mi.)					ft.	in.	in.		
1.—CLYDE. Left Bank Tributaries. 7 sq. mi.									
2.—FIRTH OF CLYDE. 60 sq. mi.									
D	§Ardrossan (Mill Glen Filters) ..	H. R. Seaton, Esq. ..	NS(26)235444	167	...	42.13	199	163	
D	Stevenston (Greenhead Filters) ..	W. G. Guild, Esq. ..	NS(26)273437	186	41.6	40.38	194	160	
W	Ardrossan (Busbie Reservoir) ..	H. R. Seaton, Esq. ..	NS(26)239463	370	44.0	45.15	...	...
M	Fairlie (Waterworks) ..	T. W. Leslie, Esq. ..	NS(26)214555	270	...	50.98	...	...
D	Largs (Stevenston Institute) ..	Burgh Surveyor ..		20	...	50.77	213	176	
D	LARGS (WOODBANK) ..	A. Simpson, Esq. ..	NS(26)199607	25	...	46.90	202	167	
D	Largs (South Routenburn) ..	A. K. Gordon, Esq. ..		150	...	42.81	216	162	
D	Largs (Middleton Filters) ..	Burgh Surveyor ..		230	52.0	52.82	215	180	
M	Greenock W.W. (Knockencorsan) ..	Water Engineer ..	NS(26)249682	940	...	62.60	...	...
M	Greenock W.W. (Largs Road) ..	Water Engineer ..	NS(26)242686	910	...	64.20	...	...
3.—IRVINE & C. 296 sq. mi.									
D	PRESTWICK ..	Burgh Surveyor ..	NS(26)347261	17	31.0	36.18	202	166	
D	PRESTWICK AIRPORT ..	(+A) Meteorological Office ..	NS(26)358269	30	33.6	35.87	198	157	
D	Prestwick (Ladykirk Filters) ..	Burgh Surveyor ..		185	...	36.31	207	158	
D	Symington ..	J. Glass, Esq. ..		300	...	40.07	215	166	
D	Troon (Collenan Reservoir) ..	Burgh Surveyor ..		203	...	37.79	192	154	
D	Irvine (Gailes) ..	Archibald Forrest, Esq. ..	NS(26)323355	12	35.9	37.94	190	157	
D	Newmilns (Lanfine) ..	W. Logan, Esq. ..		500	43.4	50.71	207	179	
D	Templetonburn ..	Late F. C. Howie, Esq. ..		140	...	45.72	210	180	
D	Darvel (Kirkland Park) ..	Burgh Surveyor ..		347	...	46.12	212	170	
D	KILMARNOCK (Springhill House) ..	W. N. McCall, Esq. ..	NS(26)421377	115	37.3	40.22	188	164	
D	Irvine (Cunninghame Home) ..	Governor ..		24	...	39.81	179	157	
D	Kilmarnock (North Craig Reservoir) ..	W. N. McCall, Esq. ..		319	41.2	47.62	205	175	
d	Montgreenan Gardens ..	Capt. C. B. G. Coltart, R.N. (Retd.) ..		180	...	48.44	196	170	
M	Fenwick (Whiteleehill) ..	W. N. McCall, Esq. ..		915	48.6	55.93	...	...
M	Croilburn ..	W. N. McCall, Esq. ..		725	...	50.16	...	...
D	Fenwick (Amlaird Filters) ..	W. N. McCall, Esq. ..		590	45.2	50.51	236	181	
M	Craigendunton Reservoir ..	W. N. McCall, Esq. ..		805	48.9	55.44	...	...
M	Loch Goin Reservoir ..	W. N. McCall, Esq. ..		865	49.4	62.81	...	...
d	Blair Gardens ..	W. N. McCall, Esq. ..	NS(26)304479	155	...	53.72	...	178	
M	Raithill ..	W. N. McCall, Esq. ..	NS(26)483466	640	...	50.75	...	...
M	Moor Farm ..	W. N. McCall, Esq. ..		810	50.2	54.26	...	...
D	Stewarton Filters ..	J. A. Wood, Esq. ..		515	46.1	49.92	204	176	
D	Dunlop (The Hill) ..	Dr. A. S. Thom, C.E. ..		480	...	49.26	206	167	
D	Dalry (Munnoch Reservoir) ..	W. G. Guild, Esq. ..	NS(26)253481	325	47.9	52.20	206	166	
D	Dalry (Caaf Reservoir) ..	W. G. Guild, Esq. ..	NS(26)253498	515	53.2	57.56	214	180	
D	Dalry (Birkheadsteel) ..	W. G. Guild, Esq. ..	NS(26)245503	520	54.3	57.30	214	179	
M	Dalry (Thirdpart) ..	T. W. Leslie, Esq. ..	NS(26)266508	560	52.0	48.14	...	...
M	§Dalry (Drum Burn) ..	W. G. Guild, Esq. ..	NS(26)238513	744	...	57.34	...	...
M	Dalry (South Knockendon) ..	W. G. Guild, Esq. ..	NS(26)245513	704	52.1	58.10	...	...
M	§Dalry (Knockendon) ..	W. G. Guild, Esq. ..	NS(26)240524	750	53.4	60.31	...	...
M	Dalry (Haining) ..	J. A. McGregor, Esq., C.E. ..	NS(26)264545	895	59.7	64.05	...	...
M	Dalry (Camphill Reservoir) ..	(+A) J. A. McGregor, Esq., C.E. ..	NS(26)275549	611	61.2	67.72	...	...
M	Dalry (Catburn) ..	J. A. McGregor, Esq., C.E. ..	NS(26)255559	1014	63.9	70.20	...	...
M	Dalry (Whitehill) ..	J. A. McGregor, Esq., C.E. ..	NS(26)264563	628	61.8	71.90	...	...
M	Dalry (Blairpark) ..	J. A. McGregor, Esq., C.E. ..	NS(26)246574	722	61.3	66.39	...	...
M	Dalry (Rye Water) ..	J. A. McGregor, Esq., C.E. ..	NS(26)253587	1032	...	69.59	...	...
D	Beith (Filter Station) ..	T. W. Leslie, Esq. ..	NS(26)371538	412	53.7	54.42	208	178	
D	Kilbirnie (Holehouse Filters) ..	T. W. Leslie, Esq. ..	NS(26)309560	377	63.4	67.80	243	193	
M	Kilbirnie (Pundeavon Res.) ..	T. W. Leslie, Esq. ..	NS(26)294577	904	...	71.90	...	...

§ Turf wall round gauge.

DIVISION XIV—SOUTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
AYRSHIRE—(contd.)				ft.	in.	in.		
4.—AYR. 222 sq. mi.								
D	Ayr (Cemetery)	Thomas O'Beirne, Esq., C.E.	NS(26)348211	40	34·8	34·71	192	159
D	AUCHINCROUTE	W. Scotland Agricultural Coll.	NS(26)389236	147	39·0	35·81	198	156
d	Muirkirk (Kaimshill)	National Coal Board ..	NS(26)696266	750	47·8	44·88	212	170
d	Mauchline (Barskimming Gardens)	R. D. Allan, Esq.		200	...	46·64	250	179
D	Mauchline (Hillhead Tank) ..	T. W. Leslie, Esq.		564	42·8	46·24	204	176
5.—DOON. 119 sq. mi.								
M	Loch Recawr	Thomas O'Beirne, Esq., C.E.	NX(25)441938	933	...	70·40	...	...
d	Loch Doon (Garpel Burn)	S. of Scotland Electricity Bd.	NX(25)482985	710	...	55·44	...	...
w	Loch Doon (Starr)	S. of Scotland Electricity Bd.	NX(25)482937	800	...	61·67	...	...
D	Dalmellington (Mossdale Filters)	T. W. Leslie, Esq.	NS(26)495043	752	48·6	52·45	238	180
d	Dunaskin (Ardoon)	National Coal Board ..	NS(26)441086	686	...	47·86	180	173
D	Patna (Kerse Filters)	T. W. Leslie, Esq.	NS(26)425131	741	...	50·95	238	176
D	Maybole (Otterden) <i>old site</i> ..	D. Cross, Esq.	NS(26)308146	314	43·2	41·91	210	167
D	Maybole (Otterden) <i>new site</i> ..	D. Cross, Esq.	NS(26)308147	350	...	41·78	214	167
M	Dalrymple (Knockjarder W.W.) ..	Thomas O'Beirne, Esq., C.E.		287	42·6	39·21	...	...
D	Ayr (Doonholm)	Col. N. Kennedy, C.B.E., D.S.O., D.L.		90	38·8	42·06	205	167
d	Alloway (Doonside)	Col. Sir Thomas Dunlop, T.D., D.L.		250	...	39·64	...	...
6.—CULZEAN BAY & C. 32 sq. mi.								
d	Maybole (Culzean Castle Gardens)	Mr. W. J. Orr		138	...	42·09	...	...
7.—GIRVAN. 105 sq. mi.								
D	Girvan (Penwhapple Reservoir)	Burgh Surveyor		662	...	50·04	218	172
w	Loch Bradan	Burgh Surveyor, Troon ..	NX(25)437977	990	57·6	62·38	...	...
8.—STINCHAR & C. 155 sq. mi.								
D	Ballantrae	D. I. W. Gray, Esq., M.B.E.		15	...	39·67	223	152
D	COLMONELL (Knockdolian)	Maj.-Gen. D. McConnel ..	NX(25)122857	170	44·8	40·72	211	146
w	Girvan (Glendrisaigh Res.)	Burgh Surveyor		266	...	46·51	...	...
9.—LOCH RYAN. 12 sq. mi.								
10.—LUCE BAY. 15 sq. mi.								
d	Ballantrae (Lagafater Lodge) ..	Miss Boulton		800	64·8	63·33	202	182
11.—CREE. 40 sq. mi.								
12.—DEE. 9 sq. mi.								
13.—NITH. 62 sq. mi.								
M	Afton Reservoir (Afton Water)	T. W. Leslie, Esq.	NS(26)637024	1525	78·8	88·05	...	...
M	Afton Reservoir (Alwhart Burn) No. 2	T. W. Leslie, Esq.	NS(26)639035	1435	79·9	84·35	...	...
M	Afton Reservoir (Montraw Burn)	T. W. Leslie, Esq.	NS(26)649034	1554	77·6	84·05	...	...
M	Afton Reservoir (Montraw)	T. W. Leslie, Esq.	NS(26)639035	1372	75·7	79·55	...	...
M	Afton Reservoir (Green Burn)	T. W. Leslie, Esq.	NS(26)633035	1415	84·6	89·75	...	...
D	Afton Reservoir (Filters)	T. W. Leslie, Esq.	NS(26)632044	1366	...	79·40	233	198
D	Glen Afton (Ayrshire Sanatorium)	Physician-in-Charge ..	NS(26)616101	833	53·2	56·82	201	173
D	New Cumnock (Bank Colliery) ..	National Coal Board ..	NS(26)595114	741	55·8	49·75	208	165
14.—INSULAR. 1 sq. mi.								

§ Turf wall round gauge.

DIVISION XIV—SOUTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
RENFREWSHIRE. (Area, 241 sq. mi.)				ft.	in.	in.		
1.—CLYDE. Right Bank Tributaries. 3 sq. mi.								
2.—CLYDE. Left Bank Tributaries. 194 sq. mi.								
W	Eaglesham (Dunwan Reservoir) No. 2	Geo. Sime, Esq.	NS(26)554497	820	...	57.42	...	...
M	Eaglesham (Dunwan Reservoir) No. 3	Geo. Sime, Esq.	NS(26)551487	822	50.5	56.85	...	...
M	Eaglesham (Dunwan Reservoir) No. 4	Geo. Sime, Esq.	NS(26)542492	841	50.6	57.31	...	...
W	Eaglesham (Picketlaw Reservoir) No. 1	Geo. Sime, Esq.	NS(26)567516	690	...	57.10	...	...
M	Long Loch Reservoir (S)	County Engineer		770	...	53.74	...	...
M	Long Loch Reservoir (N)	County Engineer		775	...	52.60	...	...
D	Gorbals Dist. W.W. (Waulk Glen)	S. D. Canvin, Esq., C.E. ..	NS(26)522578	280	47.2	48.13	204	170
	Paisley W.W. (Muirhead)	J. A. McGregor, Esq., C.E.	NS(26)391571	482	53.9	55.63	...	...
D	Neilston (Filters)	County Engineer		561	...	56.36	225	177
M	Paisley W.W. (Springside)	J. A. McGregor, Esq., C.E.		532	54.4	55.56	...	...
M	Paisley W.W. (Back Thornlymuir)	J. A. McGregor, Esq., C.E.	NS(26)467592	646	50.9	53.09	...	...
M	Paisley W.W. (Stanely)	J. A. McGregor, Esq., C.E.		190	47.3	50.32	...	...
D	BARRHEAD (Sewage Works)	Burgh Surveyor	NS(26)511601	97	...	45.33	221	163
D	Howwood (Tor Bracken)	A. D. McNab, Esq.	NS(26)405604	360	54.7	58.72	209	177
D	Thornliebank (Rouken Glen Park)	G. H. Garside, Esq.	NS(26)548586	155	43.2	42.32	197	159
D	Pollokshaws (Pollok House)	Messrs. Nether Pollok, Ltd.	NS(26)549619	50	36.5	38.15	191	151
D	Lochwinnoch (Sewage Works)	County Engineer		95	...	60.51	204	186
D	Lochwinnoch (Kaim Dam)	County Engineer	NS(26)347621	616	72.7	76.94	216	182
D	Kilbarchan (Glentyan)	D. C. Leggat, Esq.		300	52.6	59.79	197	174
M	Calder Water (White Grain Burn)	County Engineer	NS(26)279633	1437	...	93.01	...	...
D	Calder Water (Muirshiel Mill) (+A)	County Engineer	NS(26)310633	782	...	84.08	246	188
M	Calder Water (Queenside Loch)	County Engineer	NS(26)294643	1260	...	96.49	...	...
M	Upper Calder	County Engineer	NS(26)265647	1337	...	93.29	...	...
D	Calder Water (Barytes Mine)	County Engineer	NS(26)283650	1008	...	92.63	249	197
D	Bridge of Weir (Ranfurly)	Rev. E. T. Vernon		290	...	60.32	219	177
M	Calder Dam	County Engineer	NS(26)295653	918	...	93.19	...	...
D	Paisley (Thornly Park School)	W. K. Wallace Lees, Esq., O.B.E.	NS(26)487613	195	...	47.51	200	156
D	PAISLEY (Coats Observatory)	Obs. Com. (J. Woodrow) ..	NS(26)478642	106	40.7	41.85	202	155
M	§Greenock W.W. (Duchal Moor)	Water Engineer	NS(26)282667	1150	75.0	79.90	...	...
M	Greenock W.W. (Creuch Hill)	Water Engineer	NS(26)267688	1350	72.2	76.40	...	...
M	Greenock W.W. (Green Water)	Water Engineer	NS(26)287701	788	...	71.90	...	...
D	RENFREW (Glasgow Airport) .. (+A)	Meteorological Office	NS(26)508662	26	37.0	36.44	194	148
D	Kilmacolm (Waterworks)	James Grier, Esq.		600	67.0	58.84	214	186
D	Kilmacolm Village	James Grier, Esq.		300	51.7	56.65	214	180
D	Greenock W.W. (Gryfe Reservoir)	Water Engineer	NS(26)285713	640	64.0	63.21	212	181
D	Greenock W.W. (Mansfield)	Water Engineer	NS(26)295714	573	...	61.08	212	181
M	Greenock W.W. (Darndaff Moor)	Water Engineer	NS(26)285733	850	64.5	71.20	...	...
W	Greenock W.W. (Kelly Dam)	Water Engineer	NS(26)221684	640	63.6	62.30	...	...
3.—FIRTH OF CLYDE. 34 sq. mi.								
	Inverkip (Daff Burn Reservoir)	Burgh Surveyor	NS(26)228712	506	58.4	65.83	...	...
D	Dougliehill Filters (Pt. Glas. W.W.)	I. M. MacLean, Esq., C.E.	NS(26)317739	550	53.4	57.37	215	178
D	Parkhill Filters (Port Glasgow W.W.)	I. M. MacLean, Esq., C.E.	NS(26)355736	275	48.1	52.60	203	175
D	§Greenock W.W. (Compensation Res.)	Water Engineer	NS(26)248723	600	...	62.32	230	189
D	Greenock W.W. (Loch Thom)	Water Engineer	NS(26)256724	643	65.4	65.19	221	184
D	Greenock W.W. (New Yett's Dam)	Water Engineer	NS(26)264738	800	63.2	68.92	223	186
W	Greenock W.W. (Spango Burn)	Water Engineer	NS(26)240732	757	62.6	67.50	...	...
D	Greenock W.W. (Hole Glen)	Water Engineer	NS(26)258746	603	61.6	64.18	222	190
D	GREENOCK (Prospect Hill)	(+A) Water Engineer	NS(26)268757	199	58.2	58.03	220	173
D	Gourock (Coves Reservoir)	Burgh Surveyor	NS(26)244761	350	...	55.54	200	177
4.—IRVINE. 10 sq. mi.								

§ Turf wall round gauge.

DIVISION XV—WEST MIDLAND COUNTIES

STATIONS	AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
		National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more

DIVISION XV—WEST MIDLAND COUNTIES

DUNBARTONSHIRE. (Area, 270 sq. mi.)					ft.	in.	in.		
1.—FORTH. Right Bank Tributaries. 10 sq. mi.									
2.—FIRTH OF CLYDE & COWAL. 52 sq. mi.									
D	HELENSBURGH (Valve House) ..	Burgh Engineer ..	NS(26)303836	293	53.0	54.87	204	181	
	Garelochhead (Whistlefield Filters) ..	Malcolm Ross, Esq. ..	NS(26)237925	295	...	60.44	...	...
D	Garelochhead (Arddarroch Gardens) ..	Mr. D. Macpherson ..	NS(26)239950	100	74.8	72.51	231	195	
3.—CLYDE. Leven. 149 sq. mi.									
D	Dumbarton (Sewage Works) ..	W. Wilson, Esq., C.E. ..	NS(26)407745	11	...	45.38	176	161	
D	Renton (Carman Filters) ..	Malcolm Ross, Esq. ..	NS(26)383788	399	46.8	48.99	204	176	
D	Loch Lomond Park ..	G. H. Garside, Esq. ..		156	50.2	56.28	234	209	
M	Helensburgh (Blairnairn No. 1) ..	Burgh Engineer ..		575	69.7	61.79	...	...
M	Helensburgh (Blairnairn No. 2) ..	Burgh Engineer ..		1250	...	63.72	...	...
M	Helensburgh (Blairnairn No. 3) ..	Burgh Engineer ..		1580	...	64.67	...	...
M	Glen Finlas Reservoir ..	No. 1 Malcolm Ross, Esq. ..	NS(26)327893	782	75.1	80.67	...	...
W	Glen Fruin (Auchingaich Res.) S. ..	Malcolm Ross, Esq. ..	NS(26)275913	800	73.4	77.69	...	...
W	Glen Fruin (Auchingaich Res.) N. ..	Malcolm Ross, Esq. ..	NS(26)277917	800	72.2	80.30	...	...
D	Glen Finlas Reservoir ..	No. 2 Malcolm Ross, Esq. ..	NS(26)330895	810	83.7	90.80	242	203	
M	Loch Sloy (Coiregrogain) ..	N. of S. Hydro-Electric Bd. ..	NN(27)300093	449	...	118.01	...	...
D	Loch Sloy (Sloy Power Station) (+A) ..	N. of S. Hydro-Electric Bd. ..	NN(27)324099	40	...	106.61	232	211	
M	Ardvorlich ..	N. of S. Hydro-Electric Bd. ..	NN(27)315116	1123	...	126.74	...	...
M	Loch Sloy (Cam Allt) ..	N. of S. Hydro-Electric Bd. ..	NN(27)266143	1580	...	128.61	...	...
4.—CLYDE. Right Bank Tributaries. 59 sq. mi.									
W	Bowling Filters ..	Malcolm Ross, Esq. ..	NS(26)449740	230	...	47.93	...	...
D	Duntocher (Cochno Filters) <i>old site</i> ..	Clydebank & District W. Trust ..	NS(26)495737	400	44.2	45.79	200	172	
D	Duntocher (Cochno Filters) <i>new site</i> ..	Clydebank & District W. Trust ..	NS(26)495737	385	...	48.98	209	177	
W	Kilpatrick Hills (Greenside Res.) <i>o. site</i> ..	Clydebank & District W. Trust ..	NS(26)477754	876	51.8	53.57	...	...
W	Kilpatrick Hills (Greenside Res.) <i>n. site</i> ..	Clydebank & District W. Trust ..	NS(26)478754	840	...	56.49	...	...
W	Kilpatrick Hills (Loch Cochno) ..	Clydebank & District W. Trust ..	NS(26)488763	915	...	61.35	...	...
W	Kilpatrick Hills (Jaw Reservoir) ..	Clydebank & District W. Trust ..	NS(26)496757	910	53.9	57.11	...	...
STIRLINGSHIRE. (Area, 463 sq. mi.)									
1.—FORTH. Right Bank Tributaries. 263 sq. mi.									
D	Shieldhill (Gardrum Moss) ..	Department of Agriculture ..	NS(26)898751	660	...	36.74	196	156	
d	Falkirk (Inglewood, Laurieston) ..	Miss H. S. D. Ballantine ..	NS(26)907797	133	34.8	33.60	...	...
D	FALKIRK (Arnotdale) ..	(+A) Burgh Engineer ..	NS(26)880803	105	33.7	36.29	200	145	
M	Falkirk (Kerse) ..	Robert Johnston, Esq., C.E. ..		18	31.9	33.26	...	...
d	Grangemouth (Public Park) ..	J. C. Wallace, Esq., C.E. ..		15	30.9	36.03	...	...
M	Little Denny Reservoir ..	Stirling & Falkirk W. Board ..	NS(26)799816	325	42.8	46.23	...	...
M	Little Denny Filters ..	Stirling & Falkirk W. Board ..	NS(26)805820	243	42.4	45.64	...	...
M	Kilsyth (Faulhlin Reservoir) ..	Stirling & Falkirk W. Board ..	NS(26)741831	707	54.4	60.20	...	...
D	Kilsyth (Craigannet) ..	Stirling & Falkirk W. Board ..	NS(26)717839	740	53.6	64.52	226	175	
M	Fintry (Waterhead) ..	Stirling & Falkirk W. Board ..	NS(26)651836	850	61.3	71.41	...	...
M	§Kilsyth (Kirkburn) ..	Stirling & Falkirk W. Board ..	NS(26)701839	743	50.9	61.77	...	...
M	Denny (Buckieburn Reservoir) ..	Stirling & Falkirk W. Board ..	NS(26)742856	824	54.3	63.71	...	...
M	Denny (Buckieburn Filters) ..	Stirling & Falkirk W. Board ..	NS(26)751851	760	53.8	65.34	...	...
M	Earlsburn Reservoir ..	Stirling & Falkirk W. Board ..	NS(26)702893	1202	56.8	64.45	...	...
D	Stirling (North Third Reservoir) No. 1 ..	J. C. Wallace, Esq., C.E. ..	NS(26)756896	574	49.4	56.21	218	169	
M	Stirling (North Third Reservoir) No. 2 ..	J. C. Wallace, Esq., C.E. ..	NS(26)742891	820	...	53.94	...	...
D	Stirling (Touch Reservoir) ..	No. 3 J. H. Leishman, Esq. ..	NS(26)730913	759	...	51.18	219	169	
D	Stirling (Touch Reservoir) ..	No. 2 J. H. Leishman, Esq. ..	NS(26)735918	707	47.9	49.12	219	166	
D	Stirling (Touch Reservoir) ..	No. 1 J. H. Leishman, Esq. ..	NS(26)745917	455	47.6	52.12	218	160	

§ Turf wall round gauge.

DIVISION XV—WEST MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
STIRLINGSHIRE—(contd.)				<i>ft.</i>	<i>in.</i>	<i>in.</i>		
1.—FORTH Right Bank Tributaries—(contd.)								
D	STIRLING (Sauchie House)	Town Council	NS(26)793936	151	35·9	40·67	193	148
M	Meiklewood	Mr. W. Donaldson	NS(26)727957	39	...	41·18	...	...
M	Duchray Valley (Ben Lomond)	S. D. Canvin, Esq., C.E. ..	NN(27)401017	1500	89·2	90·15	...	...
M	Duchray Valley (Glen Dhu) <i>old site</i> ..	S. D. Canvin, Esq., C.E. ..	NN(27)406032	500	81·8	82·50	...	...
M	Duchray Valley (Glen Dhu) <i>new site</i> ..	S. D. Canvin, Esq., C.E. ..	NN(27)400034	500	...	83·30	...	...
M	Duchray Valley (Comer)	S. D. Canvin, Esq., C.E. ..	NN(27)385041	600	86·5	77·90	...	...
M	Duchray Valley (Achaidh Burn)	S. D. Canvin, Esq., C.E. ..	NN(27)369043	1200	94·4	90·20	...	...
M	Duchray Valley (Hd. of Main Stream) ..	S. D. Canvin, Esq., C.E. ..	NN(27)390062	950	88·8	89·10	...	...
D	Stronachlachar (Invergyle)	S. D. Canvin, Esq., C.E. ..	NN(27)402103	376	...	86·01	243	197
2.—Forth. Teith. 5 sq. mi.								
3.—FORTH. Left Bank Tributaries. 15 sq. mi.								
D	Bridge of Allan (Park Cottage)	Burgh Surveyor	NS(26)791972	45	...	37·96	202	151
4.—CLYDE. Leven. 128 sq. mi.								
M	Kilpatrick Hills (Burncrooks Res.) ..	J. E. McWilliam, Esq. ..	NS(26)485796	835	51·9	53·55	...	...
D	Strathblane (Blanefield)	S. D. Canvin, Esq., C.E. ..		250	50·6	58·37	211	181
D	Fintry (Police Station)	S. Armstrong, Esq. ..	NS(26)616867	300	...	57·10	200	165
D	Balfron (Old Ballikinrain)	A. R. Cross, Esq. ..	NS(26)559879	214	...	47·84	209	169
M	Endrick Weir	Stirling & Falkirk W. Board	NS(26)683867	780	...	61·27	...	...
	Loch Arklet (Corrieichon)	S. D. Canvin, Esq., C.E. ..	NN(27)374085	870	82·6	87·50	...	...
	Loch Arklet (Corriearklet)	S. D. Canvin, Esq., C.E. ..	NN(27)382099	950	85·2	90·18	...	...
5.—CLYDE. Right Bank Tributaries. 52 sq. mi.								
D	Strathblane (Mugdock Reservoir) ..	S. D. Canvin, Esq., C.E. ..		320	47·4	50·86	221	181
d	Kilsyth (Sewage Works)	J. Milne, Esq. ..	NS(26)716779	135	44·9	51·44	229	189
D	Kilsyth (Colzium Lennox House) ..	J. Milne, Esq. ..	NN(27)727786	306	...	52·17	215	179
D	Lennoxton	J. O. Stewart, Esq. ..		320	...	56·80	193	176
BUTESHIRE. (Area, 218 sq. mi.)								
1.—ISLE OF BUTE. 50 sq. mi.								
D	Rothsay (Dhu Loch Waterworks) ..	A. Stephen, Esq. ..		273	...	50·45	217	188
D	ROTHESAY (Ardencraig)	Mr. J. McDermott	NS(26)106647	200	49·0	53·21	204	189
2.—CUMBRAES. 4 sq. mi.								
D	MILLPORT (Marine Biological Station)	Director	NS(26)174544	16	40·1	42·45	216	170
3.—ARRAN. 164 sq. mi.								
D	Dougarie Lodge	Lady Mary Boscawen ..	NR(16)883372	50	46·0	49·13	230	186
ARGYLLSHIRE. (Area, 3,181 sq. mi.)								
1.—TAY. Tummel. 36 sq. mi.								
2.—SOUND OF ARISAIG, SOUND OF MULL & C. 317 sq. mi.								
D	Ardnamurchan Lighthouse .. (+A)	Com'rs. of N. Lighthouses		79	...	48·75	240	193
D	Morvern (Drimnin)	Miss A. Horsman	NM(17)553550	225	62·4	64·12	238	202
D	Loch Shiel (Polloch House)	Forestry Commission ..	NM(17)793688	17	95·8	86·49	254	212
3.—LOCH LINNHE. Right Bank Tributaries. 139 sq. mi.								
D	Morvern (Kingairloch)	C. H. Strutt, Esq. ..	NM(17)836531	40	98·4	98·78	238	215
D	Ardgour (Inversanda)	Mrs. G. Bannister ..	NM(17)940595	25	...	108·92	246	218
M	Corran Lighthouse	Com'rs of N. Lighthouses ..	NN(27)016635	13	81·0	87·78	236	204

DIVISION XV—WEST MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
ARGYLLSHIRE—(contd.)				ft.	in.	in.		
3.—LOCH LINNHE. Right Bank Tributaries—(contd.)								
D	Ardgour House	.. .. Miss Maclean of Ardgour ..	NM(17)994639	60	...	105.45	247	217
D	Conaglen	.. .. M. H. Mason, Esq. ..	NM(27)025691	50	...	96.93	241	212
4.—LOCH LINNHE. Left Bank Tributaries. 165 sq. mi.								
d	Barcaldine	.. .. Forestry Commission ..	NM(17)958415	50	65.9	71.57	226	205
D	Loch Creran (Rhugarbh)	.. .. Miss Chisholm of Chisholm ..	NM(17)933407	20	...	68.82	249	200
D	Duror (Achadh Nan Sgiath)	.. .. Major G. H. Malcolm ..	NM(17)980557	40	...	66.11	231	200
M	Glenduror Forest	.. .. Forestry Commission ..	NN(27)048544	970	...	118.30	...	...
M	Glenleven (Blackwater House)	.. .. British Aluminium Co. Ltd.	NN(27)282599	1069	80.8	99.17	...	...
D	Glenleven (Blackwater Dam, S.)	.. .. British Aluminium Co. Ltd.	NN(27)245601	1100	84.0	91.29	276	218
D	Glenleven (Kinlochleven)	.. .. British Aluminium Co. Ltd.	NN(27)193617	140	86.4	98.19	255	213
5.—LOCH ETIVE. 197 sq. mi.								
D	Connel (Alltnacree)	.. .. Miss C. R. Falwasser ..	NM(17)933360	10	...	63.20	237	200
d	Glen Etive (Dalness)	.. .. Capt. F. Bell ..	NN(27)169512	240	...	124.06	239	219
6.—LOCH ETIVE. Loch Awe. 319 sq. mi.								
M	Loch Avich (Creag Loisgte)	.. .. N. of S. Hydro-Electric Bd.	NM(17)934163	945	...	84.26	...	...
D	Loch Awe (Inverinan)	.. .. Forestry Commission ..	NM(17)998176	150	...	87.87	234	205
d	Accurach	.. .. N. of S. Hydro-Electric Bd.	NN(27)113203	655	...	82.69	...	...
M	Coire Cruachan	.. .. N. of S. Hydro-Electric Bd.	NN(27)080277	1020	...	106.65	...	...
D	Dalmally (Craig)	.. .. Capt. R. A. Oldham ..	NN(27)178277	200	...	84.81	219	200
D	Pass of Brander (Signal Box)	.. .. N. of S. Hydro-Electric Bd.	NN(27)050284	200	...	96.49	223	205
D	Glenlochy Crossing	.. .. N. of S. Hydro-Electric Bd.	NN(27)254295	660	...	103.05	192	183
D	Glenorchy (Airidh Castlualaich)	.. .. N. of S. Hydro-Electric Bd.	NN(27)255342	365	...	105.39	203	201
D	Bridge of Orchy	.. .. N. of S. Hydro-Electric Bd.	NN(27)301397	610	...	103.87	212	208
7.—FIRTH OF LORNE. 112 sq. mi.								
d	Kilmelfort (Kilchoan)	.. .. H. R. Keate, Esq. ..	NM(17)795134	30	58.6	63.45	...	193
d	Kilmelfort (Tralaig, Blaran)	.. .. N. of S. Hydro-Electric Bd.	NM(17)859172	402	...	86.15	...	...
w	Oban (Gleann-a-Bhearraidh Reservoir)	Burgh Surveyor ..	NM(17)846272	400	57.2	60.53	...	...
D	Loch Caolisport (Ormsary)	.. .. Sir William Lithgow ..	NR(16)740718	50	...	53.70	248	188
8.—SOUND OF JURA. 163 sq. mi.								
d	Glean Airidh (Tunns Farm)	.. .. N. of S. Hydro-Electric Bd.	NR(16)920953	390	...	70.79	...	...
d	Lochgilphead (Poltalloch)	.. .. Colonel G. I. Malcolm ..	NR(16)813965	120	52.7	59.01	...	206
9.—KINTYRE, WEST. 146 sq. mi.								
M	||Mull of Kintyre	.. .. Com'rs of N. Lighthouses ..		270	40.9	41.69	188	170
D	Largie Castle	.. .. Mrs. Moreton Macdonald ..	NR(16)699461	80	46.3	48.18	216	189
D	West Loch Tarbert (Ardpatrick)	.. .. W. B. K. Kenneil, Esq. ..	NR(16)752593	25	...	41.31	228	181
10.—KINTYRE, EAST. 177 sq. mi.								
D	Campbeltown	.. .. D. M. Kellock, Esq., C.E. ..	NR(16)719203	20	...	52.56	217	179
w	Glen Lussa (Corrylach)	.. .. N. of S. Hydro-Electric Bd.	NR(16)706301	450	...	58.03	...	...
M	Glen Lussa (Bordadubh)	.. .. N. of S. Hydro-Electric Bd.	NR(16)736316	575	...	70.05	...	...
D	Carradale (Torrisdale Castle)	.. .. Major D. S. Macalister Hall	NR(16)793361	84	65.5	63.95	224	193
d	Carradale (The Manse)	.. .. Rev. A. M. Bennett ..	NR(16)798382	30	62.6	62.63	232	194
D	Skipness House	.. .. W. McLaren, Esq. ..	NR(16)907576	80	...	49.95	222	188
11.—LOCH FYNE. 246 sq. mi.								
D	Ardlamont (Camp Cottage)	.. .. J. W. Turnbull, Esq. ..		110	...	42.77	219	174
D	Ardrishaig (Stronachullin)	.. .. Jas. E. Scott, Esq. ..	NR(16)850799	50	...	75.00	219	203
D	Ardrishaig (Canal Office)	.. .. Engineer & Manager ..	NR(16)852853	48	63.5	66.54	251	211
D	LOCH FYNE (LEPHINMORE)	.. .. (+A) Hill Farming Research Org.	NR(16)985926	30	64.7	71.07	235	201

§ Turf wall round gauge.

|| Site unorthodox.

DIVISION XV—WEST MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
ARGYLLSHIRE—(contd.)				ft.	in.	in.		
11.—LOCH FYNE—(contd.)								
d	Loch Fyne (Barnacarry)	.. Miss M. Manton	NS(26)001943	44	...	69·79	224	200
D	Crarae Lodge .. ..	.. Sir George Campbell, Bart.	NR(16)986973	20	70·2	79·29	241	171
D	Strachur Park .. ..	.. Sir Fitzroy Maclean ..	NN(27)093017	25	68·8	77·45	237	205
D	Brenchoillie .. ..	.. Chamberlain of Argyll ..	NN(27)019022	240	68·9	87·48	238	206
D	Inveraray Castle Gardens	.. J. McRobbie, Esq.	NN(27)089099	40	77·2	84·84	232	209
d	Ardkinglas .. ..	.. J. R. Taylor, Esq.	NN(27)175104	27	...	78·42	234	208
w	Loch Sloy (Allt Uaine)	.. N. of S. Hydro-Electric Bd.	NN(27)263113	1123	...	132·57	...	...
D	Clachan Power Station	.. N. of S. Hydro-Electric Bd.	NN(27)195133	25	...	81·33	224	204
D	Ellerigbeg .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)135145	29	...	88·32	231	222
d	§Glenfyne Lodge .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)220155	126	...	96·03	...	196
w	§Allt Na Lairige .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)252171	1075	...	121·72	...	...
D	§Shira Main Dam .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)161203	1123	...	99·27	242	226
M	§Sron Mhor .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)169208	1194	...	98·64	...	...
M	Upper Glen Fyne .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)236213	1151	...	126·76	...	...
12.—FIRTH OF CLYDE AND COWAL. 242 sq. mi.								
D	Toward (Knockdow Gardens)	.. Late Miss Augusta Lamont		101	56·8	56·18	246	183
D	DUNOON (Waterworks)	.. Burgh Surveyor	NS(26)161767	228	...	82·58	238	201
D	Ardnadam (Ashville) .. ..	.. Charles F. Priestley, Esq. ..		26	...	75·03	227	184
D	Strone (Dunmore House)	.. A. C. Kesson, Esq.	NS(26)186807	10	...	69·52	231	187
D	Glendaruel (Ormidale) .. ..	.. D. M. Chance, Esq.		50	...	74·79	...	...
d	Glen Tarsan .. ..	.. N. of S. Hydro-Electric Bd.	NS(26)070833	400	...	77·96	...	...
D	Loch Striven Power Station	.. N. of S. Hydro-Electric Bd.	NS(26)056839	13	...	77·54	232	202
D	¶DUNOON (BENMORE Forest School)	.. Forestry Commission ..	NS(26)138853	46	...	86·09	247	212
D	Loch Eck (Benmore Gardens)	.. R. Botanic Gdn., Edinburgh	NS(26)138854	40	86·6	89·92	237	211
d	Garvie Farm .. ..	.. N. of S. Hydro-Electric Bd.	NS(26)037904	140	...	81·99	...	...
D	Strachur (GLENBRANTER) .. ..	.. Forestry Commission ..	NS(26)112973	120	85·2	90·16	219	207
M	Allt a Bhalachain (Sour Milk)	.. N. of S. Hydro-Electric Bd.	NN(27)279051	1150	...	129·31	...	...
13.—CLYDE. Leven. 4 sq. mi.								
M	Loch Sloy (Beinn Ime 'South')	.. N. of S. Hydro-Electric Bd.	NN(27)270082	1322	...	148·10	...	...
M	Loch Sloy (Beinn Ime 'North')	.. N. of S. Hydro-Electric Bd.	NN(27)265092	1533	...	150·79	...	...
14.—INSULAR. 854 sq. mi.								
D	Gigha .. ..	.. Lt.-Col. J. N. Horlick, M.C.	NR(16)642479	65	...	42·26	203	173
M	Islay (Lochindaul) .. ..	.. Com'rs. of N. Lighthouses		45	44·0	52·26	258	214
M	Islay (McArthur's Head)	.. Com'rs. of N. Lighthouses		173	56·5	50·53	205	180
D	Islay (Eallabus) .. ..	.. J. H. Cranston, Esq. ..	NR(16)335634	68	48·9	50·80	235	203
M	Islay (Rhuvaal) .. ..	.. Com'rs of N. Lighthouses ..	NR(16)426792	69	42·0	45·79	206	176
d	Jura (Ardfin) .. ..	.. Col. W. Riley Smith ..		160	...	47·98	198	186
D	Jura (Tarbert) .. ..	.. Lord Astor		30	50·3	58·43	224	198
D	Jura (Ardlussa) .. ..	.. R. G. Fletcher, Esq. ..		100	50·1	52·77	229	190
D	COLONSAY .. ..	.. Lord Strathcona	NR(16)393966	87	47·4	51·21	286	204
D	Seil (An Cala) .. ..	.. Capt. H. Blakeney ..	NM(17)748173	30	57·4	63·27	248	207
M	Lismore (Mousedale) .. ..	.. Com'rs. of N. Lighthouses		38	43·7	67·36	221	194
D	Iona (Cnocmor) .. ..	.. Mr. MacNiven		60	...	43·58	232	191
d	Mull (Auchnacraig) .. ..	.. G. W. Duncan, Esq. ..		50	...	88·54	...	195
D	Mull (Gruline) .. ..	.. Mr. N. Livingstone ..	NM(17)552393	55	79·0	77·64	249	212
M	Mull, Sound of .. ..	.. Com'rs. of N. Lighthouses		...	61·5	66·80	210	187
D	TIREE Airport .. ..	.. (± A) Meteorological Office ..	NL(07)999446	29	44·7	45·14	237	183

¶ Gauge over-sheltered.

§ Turf wall round gauge.

DIVISION XVI—EAST MIDLAND COUNTIES

STATIONS	AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
		National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more

DIVISION XVI—EAST MIDLAND COUNTIES

CLACKMANNANSHIRE. (Area, 55 sq. mi.)					ft.	in.	in.		
1.—FORTH. LOWER. Left Bank Tributaries. 55 sq. mi.									
Alloa W.W. (Gartmorn Res.)	..	Burgh Surveyor	..	..	172	32.1	37.65	...	...
w Menstrie (Lipney Filters)	..	J. D. A. Ross, Esq.	..	..	328	...	36.65	...	...
KINROSS-SHIRE. (Area, 87 sq. mi.)									
1.—FORTH. LOWER. Left Bank Tributaries. 15 sq. mi.									
2.—LEVEN & C. 67 sq. mi.									
M Glendevon (Burnsfoot Burn)	..	County Engineer, Fife	..	..	1250	...	63.12	...	...
D Loch Leven Sluice	..	G. Harley, Esq.	..	..	NT(36)171994	360	35.8	40.75	250 146
Kinross (Muirpark Road)	..	F. Mackay, Esq.	..	..	400	...	39.03	...	...
D Milnathort (Greenburn)	..	A. Ross, Esq.	..	..	476	36.3	39.46	189	146
D Milnathort (Ledlanet)	..	Sir James Calder, K.B.E.	..	..	650	47.1	44.41	201	158
d Milnathort (Ochil Hills Hospital)	..	Medical Superintendent	..	..	NO(37)097076	800	43.9	43.97	... 148
3—EDEN. 2 sq. mi.									
4.—TAY. Earn. 3 sq. mi.									
FIFESHIRE. (Area, 505 sq. mi.)									
1.—FORTH. LOWER. Left Bank Tributaries. 66 sq. mi.									
D Kincardine (Tulliallan)	..	Scottish Home Dept.	..	..	90	33.8	33.02	177	148
M Carnock (Craigluscar Reservoir)	..	A. Sinclair, Esq., C.E.	..	..	480	36.1	34.65	...	...
2.—LEVEN & C. 208 sq. mi.									
d Burntisland (Cullaloe Reservoir)	..	Burgh Surveyor	..	..	294	...	33.09	167	144
D Kirkcaldy (Beveridge Park)	..	Town Clerk	..	..	NT(36)272907	106	30.0	32.88	195 140
D Cowdenbeath (Sewage Works)	..	H. Gardiner, Esq.	..	..	NT(36)170916	390	...	37.88	193 144
M Cleish Hills (Craigaveral)	..	H. Gardiner, Esq.	..	..	760	41.0	41.27	...	...
M Cleish Hills (Roscobie Reservoir)	..	H. Gardiner, Esq.	..	..	660	39.6	40.82	...	...
D Kirkcaldy (Carberry)	..	R. Ritchie, Esq.	..	..	326	...	34.34	178	138
d Glenrothes (Woodside)	..	(+A) Glenrothes Developmt. Corp.	..	..	NO(37)289002	273	...	32.40	177 138
D Leslie (Lothrie Reservoir)	..	R. Ritchie, Esq.	..	..	NO(37)223040	700	36.7	39.28	189 145
D Leven (Silverburn)	..	D. M. Russell, Esq.	..	..	70	...	29.09	158	124
D Markinch (Rothes)	..	D. M. Russell, Esq.	..	..	198	...	34.40	190	135
D Markinch (Carriston Res.) old site	..	County Engineer	..	..	NO(37)327036	293	32.9	37.16	191 143
D Markinch (Carriston Res.) new site	..	County Engineer	..	..	NO(37)327036	293	...	35.14	188 135
D Markinch (Coul Reservoir)	..	County Engineer	..	..	NO(37)270037	438	35.2	37.60	209 147
d Carnbee (Ovenstone Waterworks)	..	John R. Stewart, Esq.	..	..	168	25.8	30.84	173	134
D Arncroach (Belliston)	..	J. M. Roger, Esq.	..	..	270	...	31.24	188	126
3.—EDEN & C. 205 sq. mi.									
D Cupar (Clatto Reservoir)	..	R. W. Morrison, Esq.	..	..	505	30.1	35.08	180	143
D Cameron (Waterworks)	..	Burgh Engr., St. Andrews	..	..	478	29.9	30.99	184	133
D Cupar (Pitlair)	..	Miss Walker	..	..	126	29.5	30.58	196	129
d Cupar (Rankeillour)	..	Mr. R. Meldrum	..	..	240	28.7	30.36	...	...
D Cupar (Over Rankeillour)	..	Major Sir Robert Spencer-Nairn, Bt.	..	..	170	28.7	30.23	155	113
D CUPAR (Beet Sugar Factory)	..	British Sugar Corpn. Ltd.	..	..	NO(37)388152	82	...	28.92	157 121
D St. Andrews (Waterworks)	..	Burgh Engineer	..	..	217	27.3	29.69	177	128

DIVISION XVI—EAST MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
FIFESHIRE—(contd.)				ft.	in.	in.		
3.—EDEN & C.—(contd.)								
d	St. ANDREWS	Burgh Engineer	NO(37)502171	13	27.1	26.09	...	125
D	LEUCHARS Airfield	(+A) Meteorological Office	NO(37)458207	36	25.7	25.36	160	122
4.—FIRTH OF TAY. 25 sq. mi.								
D	Balmerino Manse	Mr. R. L. Constable		200	...	29.00	173	128
d	Newport (Tayfield)	Dr. J. Berry	NO(37)422274	110	28.3	27.69	...	...
D	Tayport Lighthouse	Dundee Harbour Trust	NO(37)447293	27	26.3	28.41	169	131
5.—TAY. Earn. 1 sq. mi.								
6.—INSULAR.								
M	Isle of May	Com'rs of N. Lighthouses		180	...	24.14	132	104
PERTHSHIRE. (Area, 2,535 sq. mi.)								
1.—FORTH. Right Bank Tributaries. 17 sq. mi.								
D	Loch Dhu	S. D. Canvin, Esq., C.E.	NN(27)429037	325	79.8	80.77	228	193
2.—FORTH. UPPER. Left Bank Tributaries. 84 sq. mi.								
3.—FORTH. Teith. 221 sq. mi.								
M	Ochertyre (Stirling)	Lt.-Col. J. C. Dundas, D.S.O.	NS(26)751979	14	39.4	40.51	...	...
	Loch Drunkie	S. D. Canvin, Esq., C.E.	NN(27)546041	420	62.4	63.30	...	...
D	Callander (Duilatur)	Sir James R. Wilson	NN(27)601063	282	...	63.66	237	175
	Ben Venue (Glasahole)	S. D. Canvin, Esq., C.E.		1150	79.4	77.10	...	...
D	Loch Vennachar	S. D. Canvin, Esq., C.E.		275	55.3	58.69	193	170
D	Brig o' Turk	S. D. Canvin, Esq., C.E.		275	63.7	68.04	225	182
	Loch Katrine (Tunnel Hill Top)	S. D. Canvin, Esq., C.E.	NN(27)417088	830	79.0	84.20	...	...
D	Callander (McLaren High School)	Town Council	NN(27)627077	250	...	59.39	214	170
	Achnahard	S. D. Canvin, Esq., C.E.		474	65.5	68.04	...	...
w	Strone Bridge	S. D. Canvin, Esq., C.E.	NN(27)454105	380	71.7	68.70	...	...
	Glen Meann	S. D. Canvin, Esq., C.E.	NN(27)522125	800	76.5	74.96	...	...
	Glen Finglas	S. D. Canvin, Esq., C.E.		1200	78.3	74.13	...	...
D	Glengyle, old site	S. D. Canvin, Esq., C.E.	NN(27)388133	380	89.9	89.47	242	197
D	Glengyle, new site	S. D. Canvin, Esq., C.E.	NN(27)388133	380	...	90.15	240	193
	Upper Glengyle	S. D. Canvin, Esq., C.E.	NN(27)361148	750	94.7	96.60	...	...
	Allt a' Choin	S. D. Canvin, Esq., C.E.		1250	88.2	92.80	...	...
d	STRATHYRE	Forestry Commission	NN(27)560168	425	...	89.31	...	...
w	Balquhiddie (Blaircreach)	Miss E. Fergusson	NN(27)441178	460	92.7	84.63	...	...
4.—FORTH. LOWER. Left Bank Tributaries. 107 sq. mi.								
D	Dunblane (Old Doune Road)	Burgh Surveyor	NN(27)776011	206	...	38.60	194	152
D	Dunblane (Ledcameroch)	J. F. Carnegie, Esq.	NN(27)788019	320	...	40.48	204	158
D	Glendevon (Glenquey Reservoir)	County Engineer, Fifeshire	NN(27)981028	942	58.0	59.09	214	172
D	Glendevon (Glenquey Res.) new site	County Engineer, Fifeshire	NN(27)981028	920	...	62.65	215	174
M	Glendevon (Frandy Burn)	County Engineer, Fifeshire	NN(27)942043	1100	...	65.29	...	...
D	Glendevon (Frandy)	County Engineer, Fifeshire	NN(27)942043	911	61.6	62.25	203	182
M	Glendevon (Bald Hill)	County Engineer, Fifeshire		1202	58.0	60.51	...	...
5.—LEVEN. 1 sq. mi.								
6.—EDEN. 4 sq. mi.								

DIVISION XVI—EAST MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
PERTHSHIRE—(contd.)				ft.	in.	in.		
7.—TAY. Earn. 376 sq. mi.								
M	Blackford .. ..	.. Water Engineer, Perthshire	NN(27)898081	500	...	38.30	...	...
D	§Upper Farg (Main Bank) .. ..	.. County Engineer, Fifeshire	NO(37)109109	632	37.6	37.85	215	146
	Glenfarg (Waterworks) .. ..	.. Water Engineer, Perthshire	NO(37)127127	675	...	39.09	...	...
	Bridge of Earn (Ramsheugh) .. ..	.. Water Engineer, Perthshire	NO(37)131141	310	...	37.77	...	...
D	Bridge of Earn (Ballendrick) .. ..	.. G. M. Taylor, Esq. ..	NO(37)119175	50	31.5	34.73	198	138
D	Lochearnhead (Edinchip) .. ..	.. Sir Malcolm MacGregor, Bt.	NN(27)577223	513	69.0	69.74	244	191
D	Comrie (Dunira Gdns.) .. ..	.. Lt.-Col. A. J. C. Rose ..	NN(27)731238	200	54.6	55.19	186	163
M	Meall nam Fiadh .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)712275	1850	...	63.24	...	...
d	§Comrie (Invergeldie Lodge) .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)742278	795	...	56.50	...	...
M	Allt am Driuchd .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)679307	1750	...	63.00	...	...
D	Crieff (Strathearn Hydro) .. ..	.. Manager	NN(27)867223	400	40.9	43.02	193	154
	Loch Turret (Lower Barvick) .. ..	.. Water Engineer, Perthshire	NN(27)843263	1100	...	54.00	...	...
	Loch Turret (Lower Glenturret) .. ..	.. Water Engineer, Perthshire	NN(27)821266	1100	54.6	50.53	...	...
	Loch Turret (Lower Shaggie) .. ..	.. Water Engineer, Perthshire	NN(27)875282	1450	...	65.05	...	...
	§Loch Turret (Upper Kelty) .. ..	.. Water Engineer, Perthshire	NN(27)844289	1850	...	69.95	...	...
	§Loch Turret (Alt Nan Colunan) .. ..	.. Water Engineer, Perthshire	NN(27)780289	2350	...	71.75	...	...
	§Loch Turret (Upper Shaggie) .. ..	.. Water Engineer, Perthshire	NN(27)861292	2000	...	72.45	...	...
	§Loch Turret (Glenturret Lodge) .. ..	.. Water Engineer, Perthshire	NN(27)802293	1250	...	66.05	...	...
	§Loch Turret (Upper Glenturret) .. ..	.. Water Engineer, Perthshire	NN(27)795299	1400	...	65.16	...	...
	Loch Turret (Lower Ben Chonzie) .. ..	.. Water Engineer, Perthshire	NN(27)781304	2050	...	74.90	...	...
	§Loch Turret (Ben Chonzie) .. ..	.. Water Engineer, Perthshire	NN(27)769304	2800	...	80.90	...	...
	§Loch Turret (Lochan Uaine) .. ..	.. Water Engineer, Perthshire	NN(27)786307	1550	...	71.85	...	...
8.—TAY. Almond & c. 149 sq. mi.								
d	Perth (Craigie Haugh) (+A)	J. Penman, Esq., C.E. ..	NO(37)113224	14	...	30.39	154	129
D	PERTH (Wellshill Cemetery) .. ..	.. Town Council	NO(37)101239	77	30.8	32.16	191	137
M	Methven (Waterworks) .. ..	.. Water Engineer, Perthshire	NN(27)988267	450	...	34.40	...	...
9.—TAY. Strathtay below Dunkeld. 33 sq. mi.								
10.—TAY. 81 sq. mi.								
D	Strath Bran (Glenquaich Lodge) .. ..	.. W. A. Cox, Esq.	NN(27)874373	900	54.1	51.84	217	170
11.—TAY. Strathtay above Dunkeld. 95 sq. mi.								
D	Aberfeldy (Tigh'n Eilean) .. ..	.. Dr. N. D. Mackay	NN(27)852492	320	37.4	38.90	216	141
d	Strathtay (Derculich) .. ..	.. R. W. Honeyman, Esq. ..	NN(27)891526	350	...	36.03	176	143
12.—TAY. Loch Tay. 241 sq. mi.								
D	§Glenoglehead .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)558281	942	...	66.46	208	182
	Beinn Leabhain .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)567285	1850	...	69.90	...	...
d	Tyndrum (Tighness) .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)328307	790	...	96.30	...	...
	Auchlyne West .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)484308	1480	...	92.77	...	...
	Allt-meal-nan-Damh .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)663317	1500	...	60.80	...	...
D	Killin (Kinnell Gardens) .. ..	.. Head Gardener	NN(27)577329	380	58.2	55.23	215	168
M	Ben Challum .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)396334	1500	...	115.65	...	...
M	Badvaim .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)412338	900	...	107.29	...	...
D	Braentrain .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)662344	850	...	53.70	202	175
d	Finlarig Power Station .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)585345	350	...	51.81	...	...
d	Lochay Power Station .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)546349	410	...	63.52	...	...
M	Murlaganmore .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)538342	750	...	72.09	...	...
M	Kenknock .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)465365	745	...	83.78	...	...
M	Lairig nan Lunn .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)447390	1720	...	96.69	...	...
d	Lawers Dam (+A)	N. of S. Hydro-Electric Bd.	NN(27)597391	1825	...	76.15	219	201
M	Lochan-nan-Cat .. ..	.. N. of S. Hydro-Electric Bd.	NN(27)649425	2350	...	79.61	...	...
D	Kenmore (Dalerb) .. ..	.. Forestry Commission ..	NN(27)763454	390	...	42.82	174	144

§ Turf wall round gauge.

DIVISION XVI—EAST MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with -01 in. or more	Days with -04 in. or more
PERTHSHIRE—(contd.)				ft.	in.	in.		
13.—TAY. Lyon. 142 sq. mi.								
D	Glenlyon (Meggernie Castle) ..	.. Sir E. S. Wills, Bart. ..	NN(27)552462	750	61·5	62·08	227	181
M	Coire Riadhailt .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)575400	2000	...	79·84	...	...
	Dalchiorlich West .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)473414	1050	...	73·28	...	...
	Invermearan .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)404418	1150	...	106·48	...	...
	Glen Da Eig .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)604419	1980	...	75·25	...	...
D	Stronuich Dam .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)508422	941	...	70·64	207	184
D	Lubroech Dam .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)455418	1080	...	77·02	228	189
M	Chobhair .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)626425	1950	...	90·21	...	...
M	Finglen No. 2 .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)627445	1430	...	74·05	...	...
M	Loch Daimh .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)470457	1430	...	81·83	...	...
D	Giorra Dam .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)510465	1375	...	71·23	230	190
W	Fortingall (Glenlyon House) ..	.. Mr. R. MacLeod	NN(27)735472	425	44·7	46·89	...	...
14.—TAY. Tummel. 587 sq. mi.								
D	Gaur (Power Station) .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)464571	794	...	57·36	237	180
d	Foss (Domnaheich) .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)792579	640	...	41·74	...	141
D	Loch Tummel (Tummel P.H.) ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)762591	500	...	40·02	201	146
D	§PITLOCHRY .. ..	.. Town Clerk	NN(27)945588	473	...	32·26	164	146
D	PITLOCHRY (Faskally) .. ..	.. Scottish Home Dept.	NN(27)918599	310	...	32·42	198	134
W	Loch Tummel (Over Bohespig) ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)740608	1000	...	35·62	...	...
D	Pitlochry (Bonskeid) .. ..	.. Secretary, Y.M.C.A. ..	NN(27)894611	540	33·0	33·38	192	145
M	Pitlochry (Allt Girnaig) .. ..	.. Burgh Surveyor	NN(27)924627	850	...	31·80	...	...
D	Fincastle House .. ..	.. R. S. Barbour, Esq. ..	NN(27)868623	980	35·4	32·08	174	137
d	Ericht Dam .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)511629	1196	54·1	58·39	...	...
D	Auchleeks Post Office .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)724641	880	45·5	47·94	201	165
d	Struan (Tomnacuag) .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)810653	500	...	32·33	...	...
W	Dalnacardoch .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)730672	1500	...	46·48	...	...
D	Blair Atholl (Blair Castle Gardens)	.. Mr. A. B. Duguid	NN(27)864658	450	33·6	31·77	187	141
D	Edendon Bridge .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)715706	1029	44·6	48·10	210	167
W	Dalnaspidal (Luidhearnaidh) ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)622730	1710	63·4	68·25	...	...
M	Edendon (Stronphadruig Lodge)	.. N. of S. Hydro-Electric Bd. ..	NN(27)714791	1630	...	70·25	...	...
15.—TAY. Isla. 282 sq. mi.								
D	BLAIRGOWRIE (Dunellen) ..	.. D. A. Robertson, Jnr. ..	NO(37)176434	200	...	29·90	170	123
d	Blairgowrie (Burnhead) ..	.. M. McLaren, Esq. ..	NO(37)174458	440	...	30·82	174	121
D	Dunkeld (Cardney) .. ..	.. A. R. Macgregor, Esq. ..	NO(37)051452	350	37·4	35·89	187	138
d	Dunkeld (Riechip Lodge) ..	.. A. McLean, Esq. ..	NO(37)064478	930	...	35·86	176	143
M	Loch Benachally .. ..	.. Blairgowrie Dist. Water Bd. ..	NO(37)078497	1012	40·4	38·35	...	...
d	Kirkmichael (Woodhill) ..	.. Kenneth M. Thorne, Esq. ..	NO(37)098544	600	...	34·93	...	...
D	GLENSHEE LODGE .. ..	.. Lt.-Col. C. A. Peel	NO(37)133684	1100	...	42·09	232	160
16.—TAY. Left Bank Tributaries. 51 sq. mi.								
	Balbeggie (Montague Reservoir) ..	.. Water Engineer, Perthshire ..	NO(37)182283	530	...	31·35	...	...
17.—FIRTH OF TAY. 45 sq. mi.								
M	Errol (Fingask) .. ..	.. Water Engineer, Perthshire ..	NO(37)227273	550	...	31·76	...	...
D	Longforgan .. ..	.. Dr. J. H. Brush	NO(37)303307	166	...	28·09	180	127
18.—SPEY. Right Bank Tributaries. 1 sq. mi.								
19.—LOCH LINNHE. Left Bank Tributaries. 2 sq. mi.								
20.—CLYDE. Leven. 36 sq. mi.								
M	Lairig (Arnan) .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)295182	1115	...	127·88	...	...
M	Dubh Eas .. ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)291203	1210	...	118·07	...	...
M	Loch Sloy (Allt nan Caorunn) ..	.. N. of S. Hydro-Electric Bd. ..	NN(27)278222	1200	...	115·94	...	...

§ Turf wall round gauge.

DIVISION XVI—EAST MIDLAND COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
ANGUS. (Area, 875 sq. mi.)				ft.	in.	in.		
1.—TAY. Isla. 211 sq. mi.								
D	GLAMIS CASTLE .. ..	.. .. Strathmore Estates	NO(37)388486	200	30·9	32·80	190	128
D	Forfar (Lilybank Crescent) .. ..	.. .. D. Duncan, Esq.	NO(37)456505	270	...	34·96	195	133
D	Kirriemuir (Lintrathen)	(+A) R. Little, Esq., C.E.	NO(37)273541	700	34·7	37·20	185	145
M	Kirriemuir (Balnakeilly) .. ..	.. .. R. Little, Esq., C.E.	NO(37)281554	685	34·1	37·82	...	...
M	Kirriemuir (Dykends) .. ..	.. .. R. Little, Esq., C.E.	NO(37)253569	750	36·4	40·10	...	...
M	Kirriemuir (Backwater) .. ..	.. .. R. Little, Esq., C.E.	NO(37)255589	850	39·7	40·70	...	...
M	Kirriemuir (Westerton) .. ..	.. .. R. Little, Esq., C.E.	NO(37)282598	900	40·5	42·90	...	...
M	Kirriemuir (Macritch) .. ..	.. .. R. Little, Esq., C.E.	NO(37)260611	1300	38·7	41·50	...	...
M	Kirriemuir (Newton) .. ..	.. .. R. Little, Esq., C.E.	NO(37)285573	735	37·4	39·90	...	...
M	Kirriemuir (Longdrum) .. ..	.. .. R. Little, Esq., C.E.	NO(37)278619	1045	39·3	43·70	...	...
M	Kirriemuir (Glendye) .. ..	.. .. R. Little, Esq., C.E.	NO(37)296621	1050	44·9	46·75	...	...
M	Kirriemuir (Barney) .. ..	.. .. R. Little, Esq., C.E.	NO(37)251632	1120	40·2	40·80	...	...
M	Kirriemuir (Glenhead) .. ..	.. .. R. Little, Esq., C.E.	NO(37)273648	1200	43·1	43·60	...	...
M	Kirriemuir (Dalvanie) .. ..	.. .. R. Little, Esq., C.E.	NO(37)186657	1020	42·7	41·40	...	...
M	Kirriemuir (Glen Damff) .. ..	.. .. R. Little, Esq., C.E.	NO(37)249650	1150	43·7	42·40	...	...
M	Glen Isla (Auchavan) .. ..	.. .. R. Little, Esq., C.E.	NO(37)191697	1200	...	44·20	...	...
M	Glen Isla (Linns) .. ..	.. .. R. Little, Esq., C.E.	NO(37)201705	1370	...	46·90	...	...
M	Glen Isla (Tulchan Lodge) .. ..	.. .. R. Little, Esq., C.E.	NO(37)185723	1450	...	48·40	...	...
M	Glen Isla (Sheilin) .. ..	.. .. R. Little, Esq., C.E.	NO(37)196756	1530	...	54·25	...	...
2.—FIRTH OF TAY. 80 sq. mi.								
D	Carnoustie (BUDDON NESS Light) .. ..	.. Dundee Harbour Trust	NO(37)539309	15	26·4	27·97	174	122
d	Dundee (Stobsmuir Reservoir) .. ..	.. R. Little, Esq., C.E.	NO(37)414321	285	...	30·73	...	127
d	Dundee (Camperdown Works) .. ..	.. Cox Bros. Ltd.	NO(37)382314	300	26·8	26·42	...	...
D	DUNDEE (MYLNEFIELD) .. ..	.. Horticultural Res. Institute	NO(37)341299	100	...	28·82	182	127
M	Balruddery .. ..	.. D. H. Sharp, Esq.	NO(37)315322	260	29·8	30·39	...	...
D	DUNDEE (Mayfield) .. ..	.. Director of Studies	NO(37)435310	147	26·2	30·49	176	127
D	Dundee (Clatto Reservoir) .. ..	.. R. Little, Esq., C.E.	NO(37)368344	500	...	32·96	917	138
3.—SOUTH ESK & C. 371 sq. mi.								
D	Monikie Reservoir .. ..	.. R. Little, Esq., C.E.	NO(37)502383	494	34·7	34·04	195	135
D	Monikie (Crombie Reservoir) .. ..	.. R. Little, Esq., C.E.	NO(37)522404	528	35·2	35·09	182	128
M	Monikie (Fallaws) .. ..	.. R. Little, Esq., C.E.	NO(37)503407	585	33·2	35·78	...	...
D	ARBROATH (Springfield Park) .. ..	.. Town Council	NO(37)649411	95	25·6	23·75	167	124
W	Arbroath (Muirheads Reservoir) .. ..	.. Burgh Engineer	NO(37)607443	251	28·1	28·82	...	...
D	Montrose (Wellington Park)* .. ..	.. Burgh Surveyor	NO(37)718578	17	...	24·51	154	116
D	§Forfar Waterworks (Den of Ogil) .. ..	.. Alex C. Millar, Esq.	NO(37)439620	663	...	42·11	207	153
D	Glenogil (Waterworks) .. ..	.. Burgh Engineer	NO(37)445625	690	40·9	42·36	206	148
M	Glen Prosen (Cormuir) .. ..	.. R. Little, Esq., C.E.	NO(37)306667	870	53·1	42·90	...	...
4.—NORTH ESK & C. 213 sq. mi.								
D	MONTROSE (ROYAL MENTAL HOSPITAL) .. ..	.. Medical Superintendent	NO(37)707617	200	27·0	26·37	186	127
d	Montrose (Kinnaber Waterworks) .. ..	.. Burgh Surveyor	NO(37)727615	30	...	26·03	163	125
D	Brechin (Stracathro Hospital) .. ..	.. Medical Superintendent	NO(37)626655	120	...	33·10	197	127
D	Loch Lee (Inchgrundle) .. ..	.. County Engineer	NO(37)413794	885	...	50·23	216	158
M	Bridge of Lee .. ..	.. County Engineer	NO(37)395803	920	...	49·55	...	...
D	Loch Lee (Invermark) .. ..	.. County Engineer	NO(37)431803	895	...	46·02	224	158
M	Glen Lee (Stables) old site .. ..	.. County Engineer	NO(37)374815	1545	...	48·73	...	...
M	Glen Lee (Stables) new site .. ..	.. County Engineer	NO(37)374815	1555	...	50·49	...	...

DIVISION XVII—NORTH-EASTERN COUNTIES

KINCARDINESHIRE. (Area, 382 sq. mi.)

1.—NORTH ESK & C. 99 sq. mi.

D Fettercairn (Fasque)	Sir Albert Gladstone	NO(37)649757	320	36·0	38·53	201	149
D §FETTERCAIRN (GLENSAUGH)	(+A) Hill Farming Research Org.	NO(37)669782	560	39·3	42·23	216	153

* Gauge moved from West End Park, Feb. 1957.

§ Turf wall round gauge.

DIVISION XVII—NORTH-EASTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957					
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more			
KINCARDINESHIRE—(contd.)							ft.	in.	in.		
2.—BERVIE, COWIE & C. 139 sq. mi.											
D	STONEHAVEN	Town Council	NO(37)873864	125	27.4	29.34	176	127			
D	MUCHALLS	N. of S. College of Agric. ..	NO(37)898919	210	...	32.94	174	117			
M	Girdleness Lighthouse ..	Com'rs of N. Lighthouses ..	NJ(38)972054	89	...	27.30	165	113			
3.—DEE. 144 sq. mi.											
D	Strachan (Bridge of Dye) ..	Sir Albert Gladstone ..	NO(37)650857	553	...	47.70	212	144			
D	Banchory (Invery)	Major Jas. Kerr	NO(37)698940	225	34.8	40.56	189	131			
D	Banchory (Invercarnie) ..	A. G. Booth, Esq., C.E. ..	NO(37)664966	208	31.9	34.40	191	122			
ABERDEENSHIRE. (Area, 1,974 sq. mi.)											
1.—DEE. 672 sq. mi.											
M	Glen Muick (Allt na Guibhsaich) ..	A. G. Booth, Esq., C.E. ..	NO(37)300858	1370	45.1	45.59	...	...	
D	Glen Muick (Inchnabobart) ..	A. G. Booth, Esq., C.E. ..	NO(37)310876	1270	41.9	44.78	214	165			
d	§Aitnach	A. G. Booth, Esq., C.E. ..	NO(37)413918	1260	41.9	44.23	222	163			
D	BRAEMAR (Bank)	R. A. Lees, Esq.	NO(37)151912	1111	35.4	30.08	215	149			
d	Ballater (Birkhall Sawmill) ..	Forestry Commission ..	NO(37)349936	650	...	37.19	195	137			
D	Glen Tanar (Mansion House) ..	Lord Glentanar	NO(37)474958	553	...	42.56	213	143			
D	BALMORAL Castle Gardens ..	(+A) Mr. E. Stuart	NO(37)253949	927	33.0	31.87	205	142			
D	§Ballater (Irrigation Farm) ..	A. G. Booth, Esq., C.E. ..	NO(37)381966	633	33.2	37.57	205	135			
M	Beinn Bhreac	A. G. Booth, Esq., C.E. ..	NO(37)058968	2700	47.1	45.39	...	...	
d	Aboyne (Irrigation Farm) ..	A. G. Booth, Esq., C.E. ..	NO(37)542982	380	31.9	32.42	181	127			
D	Glen Gairn (Gairn Shiel Lodge) ..	A. G. Booth, Esq., C.E. ..	NJ(38)295008	1100	34.4	35.14	207	149			
M	Glen Gairn (Corndavon) ..	A. G. Booth, Esq., C.E. ..	NJ(38)228021	1500	...	35.47	...	...	
M	§Lumphanan	A. G. Booth, Esq., C.E. ..	NJ(38)575036	476	31.6	35.71	...	...	
D	Drumoak (Drum Castle) ..	H. Q. Forbes Irvine, Esq. ..	NJ(38)796005	320	30.9	35.20	214	133			
d	§Tarland (Irrigation Farm) ..	A. G. Booth, Esq., C.E. ..	NJ(38)488040	467	...	31.30	...	130			
d	LOGIE COLDSTONE School ..	Jas. R. Ferguson, Esq., M.A.	NJ(38)434044	608	30.9	32.13	220	133			
w	Bieldside (Netherton Lodge) ..	J. A. Ross, Esq.	NJ(38)875025	375	...	33.02	...	...	
D	ABERDEEN (MANNOFIELD RES.) ..	(+A) City Engineer, Aberdeen ..	NJ(38)915042	171	30.5	30.25	185	126			
D	Craigiebuckler	Macaulay Inst. Soil Research	NJ(38)903045	220	...	33.35	196	142			
2.—DON. 512 sq. mi.											
D	Strathdon (Tornashean) ..	Mr. G. A. Crawford ..	NJ(38)349121	1000	...	38.84	207	148			
D	Bridge of Don (Braehead) ..	The Marquis of Aberdeen ..	NJ(38)938098	114	...	33.64	185	133			
D	Aberdeen (Gordon Barracks) ..	Education Officer	NJ(38)948098	75	...	29.91	179	121			
D	Dyce (CRAIBSTONE)	(+A) N. of S. College of Agric. ..	NJ(38)872107	300	32.3	35.36	187	131			
D	DYCE (Aberdeen Airport) ..	(+A) Meteorological Office ..	NJ(38)873125	241	32.0	34.61	183	134			
D	Alford (Littlewood Park) ..	Sir Alan McLean	NJ(38)516185	750	...	45.94	212	161			
3.—YTHAN & C. 285 sq. mi.											
D	UDNY (Tillycorthie)	University of Aberdeen ..	NJ(38)906232	363	...	37.90	227	149			
D	Ellon (Esslemont House) ..	Mrs. Wolrige Gordon ..	NJ(38)934304	100	...	29.98	193	128			
D	Haddo House	Major D. Gordon	NJ(38)868347	186	31.5	34.78	221	163			
D	Fyvie Castle	Sir Ian Forbes-Leith, Bart.	NJ(38)764393	200	33.9	35.85	247	155			
4.—UGIE & C. 257 sq. mi.											
D	New Deer (School House) ..	C. S. Henderson, Esq. ..	NJ(38)886470	397	32.3	34.80	228	164			
D	Peterhead (Forehill Works) ..	J. Coull, Esq., C.E. ...	NK(48)105463	132	...	29.47	199	136			
D	Peterhead (Mains of Buthlaw) ..	W. Johnston, Esq.	NK(48)064484	120	30.3	30.27	215	148			
D	Fedderate Reservoir	G. S. Stewart, Esq.	NJ(38)865526	410	...	34.26	216	175			
D	RATTRA HEAD (Coastguard Stn.) ..	(+A) Station Officer, for M.O. ..	NK(48)093582	85	...	28.72	221	140			
5.—DEVERON & C. 248 sq. mi.											
D	HUNTLY	Wm. Eddie, Esq., for M.O.	NJ(38)523398	405	...	41.35	243	163			
D	Turriff (Muirsk House) ..	Air Com. G. E. Wilson, O.B.E.	NJ(38)704496	130	...	34.92	211	144			

§ Turf wall round gauge.

DIVISION XVII—NORTH-EASTERN COUNTIES—(contd.)

DIVISION IV
HIGHLAND DISTRICT

STATIONS	AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
		National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
BANFFSHIRE. (Area, 630 sq. mi.)			ft.	in.	in.		
1.—YTHAN. 1 sq. mi.							
2.—DEVERON & C. 344 sq. mi.							
D	Cabrach Manse.. ..	.. Aberdeen County Council..	NJ(38)388269	1025	...	45.46	222 179
d	Drummuir Castle .. ..	.. Col. Gordon Duff	NJ(38)372441	620	36.4	40.42	... 159
d	Keith (Isla Bank Mills) ..	.. G. & G. Kynoch, Ltd. ..	NJ(38)429506	360	33.8	35.95	230 156
D	Turriff (Forglen Gardens) ..	.. Mr. S. Barclay	NJ(38)699519	220	31.9	34.05	196 153
D	BANFF .. ..	.. Town Council	NJ(38)684638	130	28.7	30.79	208 154
d	Buckie (Rochomie) .. ..	.. Burgh Surveyor	NJ(38)436627	287	27.0	33.95	... 142
D	Cullen House Gardens .. ..	.. C. A. Ritchie, Esq. ..	NJ(38)508671	150	30.6	31.88	215 143
3.—SPEY. Right Bank Tributaries. 285 sq. mi.							
D	GLENLIVET (Clashnoir) .. ..	.. Walter Duncan, Esq., for M.O.	NJ(38)223222	1085	36.2	39.44	225 171
D	Dufftown (Glenrinnes Manse)	.. Rev. W. Gardiner	NJ(38)795554	995	...	46.22	230 167
D	Ballindalloch .. ..	.. R. McIntosh, Esq.	NJ(38)185369	630	33.7	38.38	200 168
MORAYSHIRE. (Area, 477 sq. mi.)							
1.—DEVERON & C. 7 sq. mi.							
2.—SPEY. Right Bank Tributaries. 35 sq. mi.							
D	FOCHABERS (GORDON CASTLE) ..	.. Col. G. C. Gordon Lennox, C.V.O., D.S.O.	NJ(38)350595	104	29.8	31.51	204 124
3.—SPEY Left Bank Tributaries. 133 sq. mi.							
4.—LOSSIE & C. 154 sq. mi.							
D	Forres (Dallas Lodge) .. ..	.. Brig. H. W. Houldsworth ..	NJ(38)108526	600	...	39.31	210 163
D	Kellas (Kellas House) .. ..	.. Mrs. Christie	NJ(38)165539	446	31.4	37.49	199 152
D	Lhanbryde (Blackhills House)	.. S. F. Christie, Esq.	NJ(38)272582	310	32.0	33.14	189 150
D	Elgin (Kirkhill) .. ..	.. Dr. Elizabeth J. A. Yool ..	NJ(38)211624	35	...	29.43	186 139
D	Elgin (The Bield) .. ..	.. Mrs. Jean Harrison	NJ(38)184627	120	...	27.98	189 126
D	§ELGIN (Cemetery) (+A)	.. Town Council	NJ(38)226617	92	...	27.90	182 128
D	Elgin (Lesmurdie) .. ..	.. Mrs. J. G. Norman	NJ(38)226636	114	26.9	30.07	216 141
D	Elgin (Newton Nursery) .. ..	.. Forestry Commission	NJ(38)164638	75	...	27.97	187 117
5.—FINDHORN & C. 148 sq. mi.							
D	FORRES (Hydro) .. ..	.. Town Clerk	NJ(38)047587	155	24.8	26.88	179 122
D	Kintessack (Culbin) .. ..	.. Mr. W. G. Milne	NJ(38)000602	28	...	28.41	222 131
D	KINLOSS Airfield (+A)	.. Meteorological Office	NJ(38)069625	15	...	27.66	198 119
D	FINDHORN .. ..	.. D. Cameron, Esq.	NJ(38)039644	20	...	26.97	188 120
NAIRNSHIRE. (Area, 163 sq. mi.)							
1.—FINDHORN & C. 102 sq. mi.							
D	Drynachan Lodge .. ..	.. Cawdor Estate Office	NH(28)865395	750	...	41.37	232 161
D	Ardclach (Glenferness) .. ..	.. Mr. J. May	NH(28)937430	700	34.8	39.59	207 158
d	Lethen .. ..	.. Major D. J. Brodie	NH(28)938517	300	...	34.61	... 131
2.—NAIRN & C. 61 sq. mi.							
D	Cawdor (Auchindoune) .. ..	.. Col. the Hon. I. M. Campbell	NH(28)838479	425	...	33.26	218 145
D	Cawdor Castle .. ..	.. Earl of Cawdor	NH(28)847498	225	29.2	32.11	227 142
D	Nairn (Firhall) .. ..	.. Lt.-Col. Angus Cameron ..	NH(28)881551	65	24.7	27.57	198 132
d	Nairn (Balblair) .. ..	.. Major R. H. Allanby	NH(28)873553	94	24.7	28.82	... 140
D	Nairn (Achareidh) .. ..	.. Mrs. Clarke	NH(28)868565	59	23.9	27.20	214 132
D	NAIRN (Golf Course) .. ..	.. Town Clerk	NH(28)862566	20	22.5	25.48	198 121

§ Turf wall round gauge.

DIVISION XVIII—NORTH-WESTERN COUNTIES

STATIONS	AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
		National grid reference	Altitude		Rain-fall	Days with ·01 in. or more	Days with ·04 in. or more

DIVISION XVIII—NORTH-WESTERN COUNTIES

INVERNESS-SHIRE. (Area, 4,146 sq. mi.)

1.—TAY. Tummel. 28 sq. mi.

2.—SPEY. Right Bank Tributaries. 437 sq. mi.

			ft.	in.	in.		
D	DALWHINNIE	G. Ritchie, Esq., for M.O.	NN(27)638848	1176	46·7	47·04	227 172
M	Loch Seilich (Gaick Lodge)	N. of S. Hydro-Electric Bd.	NN(27)756848	1430	...	57·67	... ..
D	Loch Seilich (Tromie Dam)	N. of S. Hydro-Electric Bd.	NN(27)763883	1430	46·6	47·46	258 195
M	§Loch Cuaich	N. of S. Hydro-Electric Bd.	NN(27)702836	1340	...	42·91	... ..
D	Glenshero	British Aluminium Co. Ltd.	NN(27)550931	880	45·9	47·35	223 173
M	Glenfeshie Lodge	Department of Agriculture	NN(27)842933	1170	...	39·94	... ..
d	Aviemore (Kinrara)	Wm. Murphy, Esq. . . .	NN(27)877072	800	...	34·60	... ..
D	Loch-an-Eilein (Achnagoichan) ..	Nature Conservancy ..	NH(28)913082	1000	...	32·93	213 162
D	Loch Morlich (Forester's Cottage) ..	Forestry Commission ..	NH(28)978097	1072	...	42·33	217 160
D	Loch Morlich (GLENMORE LODGE) ..	D. of Field Studies, for M.O.	NH(28)977097	1075	...	40·51	220 155

3.—SPEY. Left Bank Tributaries. 257 sq. mi.

				ft.	in.	in.		
D	Cluny Castle	J. Burnaby Coutts, Esq. . .	NN(27)646943	830	39·9	39·62	242 171	
M	Loch Spey	British Aluminium Co. Ltd.	NN(27)424939	1164	64·9	75·62	... ..
M	Glen Spey (Mealgarve)	British Aluminium Co. Ltd.	NN(27)464959	1135	55·2	62·00	... ..
D	Laggan (Gergask)	Mrs. Jessie A. Gillies ..	NN(27)613948	900	...	39·07	232 170	
D	Kingussie	Miss Jessie Dallas .. .	NH(28)760009	800	...	33·38	282 169	
D	KINCRAIG (Ard Insh)	Dr. C. B. Williams, F.R.S.	NH(28)831057	780	...	30·65	227 151	

4.—FINDHORN. 164 sq. mi.

				ft.	in.	in.		
D	Strath Dearn (Coignafearn Lodge) ..	N. of S. Hydro-Electric Bd.	NH(28)681153	1460	...	56·71	229 194	
D	Tomatin (Dalmigavie Lodge)	C. W. Christie-Miller, Esq.	NH(28)753234	1150	42·5	43·90	258 202	

5.—NAIRN & C. 131 sq. mi.

				ft.	in.	in.		
d	Strathnairn (Brin House)	R. D. Trotter, Esq. . . .	NH(28)667298	700	...	41·82	... ..
D	Strathnairn (Farr)	Forestry Commission ..	NH(28)683331	650	...	37·23	228 178	
d	Dalcross Airfield	(+A) Meteorological Office ..	NH(28)766520	34	...	28·25	196 129	

6.—NESS. Right Bank Tributaries. 252 sq. mi.

				ft.	in.	in.		
d	Invergarry (Aberchalder Lodge) ..	N. of S. Hydro-Electric Bd.	NH(28)343033	180	...	47·61	... ..
M	Auchterawe (Lon Mor)	Forestry Commission ..	NH(28)336068	525	...	52·96	... ..
D	Fort Augustus (Auchterawe)	Forestry Commission ..	NH(28)368092	136	47·7	48·56	229 188	
D	FORT AUGUSTUS (St. Benedicts) ..	Procurator	NH(28)381091	68	44·2	44·93	215 170	
d	Loch Ness (Sronlairig Lodge)	N. of S. Hydro-Electric Bd.	NH(28)535070	1175	...	58·85	... ..
D	Loch Ness (Garthbeg)	British Aluminium Co. Ltd.	NH(28)512182	630	40·1	46·46	265 182	
D	Loch Ness (Foyers)	British Aluminium Co. Ltd.	NH(28)497212	52	38·2	44·33	241 179	
D	Loch Ness (Aberchalder)	British Aluminium Co. Ltd.	NH(28)552201	640	39·4	39·24	214 169	
w	Loch Ashie	Town Council	NH(28)637359	718	...	35·84	... ..

7.—NESS. Garry & c. 185 sq. mi.

				ft.	in.	in.		
M	Loch Quoich (Cruadhach)	N. of S. Hydro-Electric Bd.	NM(17)932994	710	...	177·18	... ..
M	Glen Kingie (Lochan na Sgud)	N. of S. Hydro-Electric Bd.	NN(27)061983	470	...	98·26	... ..
M	Loch Quoich (Kinlochquoich)	N. of S. Hydro-Electric Bd.	NG(18)961007	713	...	160·83	... ..
d	Invergarry (Craigard)	N. of S. Hydro-Electric Bd.	NH(28)293010	181	...	58·90	... ..
d	Glen Garry (Kingie Camp)	(+A) N. of S. Hydro-Electric Bd.	NH(28)102014	480	...	95·38	... ..
d	Glen Garry (Inchlaggan)	N. of S. Hydro-Electric Bd.	NH(28)175017	360	...	66·50	... ..
	Glen Quoich (Alltbeithe)	N. of S. Hydro-Electric Bd.	NH(28)021072	760	...	111·20	... ..
d	Glenquoich	N. of S. Hydro-Electric Bd.	NH(28)025032	700	...	122·13	... ..

§ Turf wall round gauge

DIVISION XVIII—NORTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
INVERNESS-SHIRE—(contd.)				ft.	in.	in.		
8.—NESS. Moriston. 120 sq. mi.								
d	Cluanie Dam	N. of S. Hydro-Electric Bd.	NH(28)192100	600	...	93·09	...	...
d	Glenmoriston (Ceannacroc)	N. of S. Hydro-Electric Bd.	NH(28)226113	427	...	81·20	...	...
D	Glenmoriston (Bhlaraidh) .. (+ A)	N. of S. Hydro-Electric Bd.	NH(28)382165	229	...	49·84	234	164
d	Invermoriston Post Office	N. of S. Hydro-Electric Bd.	NH(28)417170	70	44·0	44·29	...	...
d	Invermoriston (Allt Saigh)	N. of S. Hydro-Electric Bd.	NH(28)456192	95	41·2	48·21	...	...
9.—NESS. Enrick. 133 sq. mi.								
D	Glen Urquhart House	G. H. Wilkinson, Esq. ..	NH(28)442307	470	36·1	42·82	213	163
10.—BEAULY. 341 sq. mi.								
M	Glen Affric (Creag na Calman) ..	N. of S. Hydro-Electric Bd.	NH(28)185218	1050	71·7	81·10	...	...
D	Glen Affric (Affric Lodge)	N. of S. Hydro-Electric Bd.	NH(28)185230	765	59·4	72·09	201	192
M	Glen Fiadh	N. of S. Hydro-Electric Bd.	NH(28)180257	1550	83·3	95·41	...	...
d	Glen Affric (Benevean Dam)	N. of S. Hydro-Electric Bd.	NH(28)275280	762	...	56·78	...	...
D	CANNICH (Balcladaich)	Forestry Commission ..	NH(28)297259	350	45·9	53·42	247	179
D	Cannich (Fasnakyle)	N. of S. Hydro-Electric Bd.	NH(28)314288	264	42·6	47·46	217	175
M	Glen Affric (Loch na Gobhlaig) ..	N. of S. Hydro-Electric Bd.	NH(28)279307	2030	...	53·29	...	...
d	Glen Cannich (Mullardoch Dam) <i>n. site</i>	N. of S. Hydro-Electric Bd.	NH(28)223310	820	...	76·77	...	...
d	Glen Cannich (Mullardoch Dam) <i>old site</i>	N. of S. Hydro-Electric Bd.	NH(28)228314	672	63·4	74·79	...	...
D	Strathglass (Glassburn)	Maj.-Gen. A. L. Collier, C.B.E.	NH(28)370344	170	42·5	48·04	229	175
D	Strathfarrar (Milton Cottage) ..	N. of S. Hydro-Electric Bd.	NH(28)394406	175	...	46·32	213	161
d	The Aird (Teanacoil)	Forestry Commission ..	NH(28)492413	220	...	38·27	...	...
11.—CROMARTY FIRTH. 13 sq. mi.								
12.—SOUND OF SLEAT. 259 sq. mi.								
D	Arisaig (Traigh House)	Mrs. Vera Shaw Stewart ..	NM(17)657906	20	...	62·19	235	187
D	Loch Morar (Rhubana)	N. of S. Hydro-Electric Bd.	NM(17)688922	52	...	74·92	258	204
D	Loch Nevis (Inverie Gardens) ..	Col. Crosthwaite-Eyre ..	NM(17)774994	15	84·0	82·62	224	209
	Coire Shubh Beag	N. of S. Hydro-Electric Bd.	NG(18)960044	770	...	147·93	...	...
D	Loch Hourn (Kinlochourn)	Ewen MacRae, Esq. ..	NG(18)950065	18	107·3	117·52	252	226
13.—SOUND OF ARISAIG. 126 sq. mi.								
d	Moidart (Glenmoidart)	Miss Margery Lees ..	NM(17)745728	200	84·5	89·63	242	216
D	Loch Ailort (Inverailort)	Mrs. L. P. F. Cameron-Head	NM(17)763815	8	...	88·01	253	211
D	Arisaig House	Miss C. G. Astley Nicholson	NM(17)692848	40	62·9	69·20	257	208
14.—LOCH LINNHE. Right Bank Tributaries. 48 sq. mi.								
15.—LOCHY. Right Bank Tributaries. 143 sq. mi.								
D	Loch Eil (Achdaliu)	Mrs. B. Lambie	NN(27)060782	100	...	66·26	227	181
W	Glen Loy (Erracht)	Major E. C. Cameron ..	NN(27)143823	150	79·8	76·22	...	...
D	Loch Arkaig (Achnacarry)	Lt.-Col. D. H. Cameron of Lochiel	NN(27)176880	128	80·6	81·17	244	192
M	Clunes (Kilmallie)	Forestry Commission ..	NN(27)188894	1050	...	76·56	...	...
16.—LOCHY. Left Bank Tributaries. 362 sq. mi.								
M	Fort William (Allt a'Mhuilinn) ..	British Aluminium Co. Ltd.	NN(27)148747	1000	83·6	96·00	...	...
D	Fort William (The Factory)	British Aluminium Co. Ltd.	NN(27)127752	75	73·0	72·77	239	185
M	Roy Bridge (Lairig Road)	British Aluminium Co. Ltd.	NN(27)280752	1650	85·7	108·16	...	...
M	Spean Bridge (The Cour)	British Aluminium Co. Ltd.	NN(27)227756	1050	92·4	104·45	...	...
M	Sgurr Finisgaig	British Aluminium Co. Ltd.	NN(27)195763	1850	89·4	97·86	...	...
D	Loch Treig (Fersit)	British Aluminium Co. Ltd.	NN(27)354780	850	62·9	72·12	228	182
M	Tulloch (Allt Laire)	British Aluminium Co. Ltd.	NN(27)330781	1050	60·7	79·40	...	...

|| Over-sheltered.

DIVISION XVIII—NORTH-WESTERN COUNTIES—(contd.)

STATIONS			AUTHORITIES	Rain-gauge site		Average Rain- fall	1957		
				National grid reference	Altitude		Rain- fall	Days with ·01 in. or more	Days with ·04 in. or more
INVERNESS-SHIRE—(contd.)					ft.	in.	in.		
16.—LOCHY. Left Bank Tributaries—(contd.)									
M	Roy Bridge (Allt Leachdach) ..	..	British Aluminium Co. Ltd.	NN(27)257790	650	61·3	66·15	...	...
M	Loch Pattack ..	..	Sir J. F. Ramsden, Bart. ..		1420	58·8	59·45	...	...
M	Glen Spean (Craigbeg) ..	..	British Aluminium Co. Ltd.	NN(27)407817	860	58·6	57·37	...	...
d	Spean Bridge (Spean Lodge) ..	..	Mrs. L. Davy ..	NN(27)221816	200	64·5	64·58	201	183
D	Spean Bridge (Gairloch) ..	..	J. McLaren, Esq. ..	NN(27)176843	100	74·2	75·85	225	198
D	Loch Laggan (Ardverikie) ..	..	Sir J. F. Ramsden, Bart. ..	NN(27)508876	838	54·0	58·77	247	193
	Glen Roy (Braeray Lodge) ..	..	N. of S. Hydro-Electric Bd.	NH(28)335914	734	...	71·50	...	...
17.—LOCH LINNHE. Left Bank Tributaries. 120 sq. mi.									
D	ONICH ..	..	Forestry Commission ..	NN(27)030635	48	77·4	87·35	236	220
D	Onich (Corran Gardens) ..	..	R. W. Paine, Esq. ..	NN(27)023636	72	...	84·49	232	209
D	Glenleven (Blackwater Dam, N.) ..	..	British Aluminium Co. Ltd.	NN(27)248607	1100	85·5	87·53	275	216
M	Glenleven (Loch Eilde Mhor) ..	..	British Aluminium Co. Ltd.	NN(27)217633	1130	94·9	95·45	...	...
d	Glenleven (Corrour) ..	..	British Aluminium Co. Ltd.	NN(27)356664	1350	70·1	92·16	...	...
d	Glen Nevis (Achriabhach) ..	..	N. of S. Hydro-Electric Bd.	NN(27)145684	169	...	97·52	...	...
D	FORT WILLIAM (Secondary School)†(+A)	..	Miss R. Irvine ..	NN(27)099737	34	78·9	83·13	232	192
D	Fort William (Glasdrum) ..	..	British Aluminium Co. Ltd.	NN(27)101735	216	75·9	81·43	234	196
18.—INSULAR. INNER HEBRIDES. 832 sq. mi.									
D	Isle of Eigg ..	..	Rt. Hon. Viscount Runciman ..		120	59·2	68·42	241	211
D	Skye (Glenbrittle) ..	..	Ewen MacRae, Esq. ..		30	81·9	82·76	241	212
D	Skye (Kyleakin, Dunringell) ..	..	W. A. Douglas- Hamilton, Esq. ..	NG(18)744263	70	...	68·18	266	199
d	Skye (Ghula) ..	..	Forestry Commission ..	NG(18)381266	60	...	87·79	...	...
D	Skye (Tallisker) ..	..	James A. Cameron, Esq. ..	NG(18)325302	15	...	67·14	243	225
D	Skye (Loch Harport, Carbst) ..	..	Mr. D. M. MacCaskill ..	NG(18)369330	160	...	92·00	259	228
D	Skye (Portree) ..	..	Miss F. Macdonald ..	NG(18)479441	90	73·1	76·83	263	217
D	Skye (Storr Lochs) ..	..	N. of S. Hydro-Electric Bd.	NG(18)510525	480	75·8	80·57	268	234
D	Skye (Prabost) ..	..	R. M. Murray, Esq. ..	NG(18)422497	200	...	73·52	258	215
D	Skye (DUNTULM, Kilmuir) ..	..	Seton Gordon, Esq., C.B.E.	NG(18)399718	294	53·5	59·08	270	207
19.—INSULAR. OUTER HEBRIDES. 243 sq. mi.									
D	BENBECULA Airport ..	..	(+A) Meteorological Office ..	NF(08)784556	18	...	50·47	255	191
D	North Uist (Lochmaddy) ..	..	Peter R. MacIntyre, Esq. ..		34	...	45·16	264	204
D	Harris (Kyles Lodge) ..	..	L. H. Lomas, Esq. ..	NF(08)997878	20	...	47·76	247	185
ROSS & CROMARTY. (Area, 3,237 sq. mi.)									
1.—NESS. Moriston. 35 sq. mi.									
2.—BEAULY. 109 sq. mi.									
3.—MORAY FIRTH COAST STREAMS. 64 sq. mi.									
D	Munlochy (Allangrange) ..	..	Major A. J. Cameron ..	NH(28)625515	70	...	31·63	176	146
D	§FORTROSE ..	..	Town Clerk (Fortrose) ..	NH(28)749557	15	23·8	27·16	185	128
D	Millbuie (Blackstand) ..	..	Forestry Commission ..	NH(28)716611	520	...	36·11	218	152
d	Fearn (Geanies) ..	..	Sir Kenneth Murray, J.P. ..	NH(28)895793	200	22·8	28·79	173	142
4.—CROMARTY FIRTH. 714 sq. mi.									
	Upper Meig (Gleann Fiadhaig) ..	..	N. of S. Hydro-Electric Bd.	NH(28)177490	730	...	75·02	...	...
D	River Meig (Corrie-feol) ..	..	N. of S. Hydro-Electric Bd.	NH(28)203509	530	...	77·92	228	191
d	Orrin Dam ..	..	N. of S. Hydro-Electric Bd.	NH(28)405505	900	...	60·82	...	...
D	Muir of Ord (Fairburn) ..	..	Sir John Stirling ..	NH(28)455528	500	36·2	41·03	195	160
D	Strathconon (Bridgend) ..	..	N. of S. Hydro-Electric Bd.	NH(28)323551	400	...	54·30	197	177
d	Loch a'chroisg (Luibmore) ..	..	N. of S. Hydro-Electric Bd.	NH(28)096585	550	...	82·64	...	...
D	Loch Luichart (East) ..	..	N. of S. Hydro-Electric Bd.	NH(28)390575	165	39·5	45·86	227	180

§ Turf wall round gauge.

† Gauge moved from Teviot, Oct. 1957.

DIVISION XVIII—NORTH-WESTERN COUNTIES—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
ROSS & CROMARTY—(contd.)				ft.	in.	in.		
4.—CROMARTY FIRTH—(contd.)								
D	Achnasheen (Druimdhù)	.. .. N. of S. Hydro-Electric Bd.	NH(28)187593	540	...	67·65	235	200
D	Lochluichart (The Manse)	.. .. N. of S. Hydro-Electric Bd.	NH(28)320625	310	42·0	47·30	206	165
D	Lochluichart (Aultdearg)	.. .. N. of S. Hydro-Electric Bd.	NH(28)289654	725	53·6	53·01	238	187
M	Garbat (Dubh Choille)	.. .. Forestry Commission	NH(28)399683	1150	46·7	51·56	...	...
D	Garbat Forest (Longart)	.. .. Forestry Commission	NH(28)408685	500	42·9	51·73	238	186
D	GARVE (Inchbae)	.. .. Forestry Commission	NH(28)405693	526	...	49·00	237	183
D	Strath Vaich Schoolhouse	.. .. N. of S. Hydro-Electric Bd.	NH(28)373710	700	44·7	55·64	236	186
D	Strath Vaich Lodge	.. .. N. of S. Hydro-Electric Bd.	NH(28)348742	790	...	62·32	275	221
D	Alness (Ardross School)	.. .. J. H. Ross, Esq.	NH(28)644736	495	...	37·06	226	152
5.—DORNOCH FIRTH. 355 sq. mi.								
	Tain (Mayfield)	.. .. Dr. E. W. Fraser	NH(28)776825	77	29·0	33·03	185	141
6.—ENARD BAY. 78 sq. mi.								
7.—LOCH BROOM & C. 367 sq. mi.								
d	Loch Droma	.. .. N. of S. Hydro-Electric Bd.	NH(28)253758	940	62·3	75·34	243	225
D	Inverbroom (Glackour)	.. .. Forestry Commission	NH(28)191820	65	...	66·40	228	195
D	Ullapool (Semardon)	.. .. J. R. Matheson, Esq.	NH(28)128942	50	...	60·16	240	192
D	Strath Kanaird (Power Station)	.. .. N. of S. Hydro-Electric Bd.	NC(29)149013	90	...	71·09	249	207
8.—LOCH EWE, LOCH TORRIDON & C. 423 sq. mi.								
D	Loch Torridon (Torridon House)	.. .. Capt. R. G. Gunter	NG(18)869572	25	...	72·26	248	205
M	Glen Torridon (Carn Anthony)	.. .. Nature Conservancy	NG(18)977575	350	...	109·67	...	...
D	KINLOCHWE (Anancaun)	.. (+A) Nature Conservancy	NH(28)024630	82	...	86·14	261	207
	Gairloch (Loch na h-Oidhche)	.. .. N. of S. Hydro-Electric Bd.	NG(18)899642	1350	...	99·05	...	...
	Gairloch (a'Gharbh-Choire)	.. .. N. of S. Hydro-Electric Bd.	NG(18)873701	800	...	65·90	...	...
M	Loch Maree (Grudie Bridge)	.. .. Nature Conservancy	NG(18)977674	60	...	76·57	...	...
D	Loch Bad-na-Sgalaig	.. .. N. of S. Hydro-Electric Bd.	NG(18)848719	355	...	79·72	270	221
D	Gairloch (Badachro)	.. .. N. of S. Hydro-Electric Bd.	NG(18)778736	90	...	51·84	228	188
	Sithean Mor	.. .. N. of S. Hydro-Electric Bd.	NG(18)848741	850	...	60·25	...	...
D	Poolewe (Inverewe)	.. .. National Trust	NG(18)861818	20	...	66·44	262	217
D	Inverasdale (Midtown)	.. .. Alex. J. MacLeod, Esq.	NG(18)821866	40	...	67·00	252	212
9.—LOCH CARRON, LOCH ALSH & C. 401 sq. mi.								
M	Glen Shiel (Tigh an Allt)	.. .. Forestry Commission	NH(28)017132	600	135·2	115·92	...	...
D	Loch Duich (Ratagan)	.. .. Forestry Commission	NG(18)916200	12	82·3	91·36	242	205
M	Loch Duich (Druim Sgurr)	.. .. Forestry Commission	NG(18)902197	1100	81·2	99·94	...	...
D	Loch Alsh (Nostie)	.. .. N. of S. Hydro-Electric Bd.	NG(18)857273	25	...	82·00	253	211
D	Stromeferry (Dailfean)	.. .. Forestry Commission	NG(18)854337	60	...	67·03	262	207
M	Stromeferry (Am Meallan)	.. .. Forestry Commission	NG(18)874339	625	...	73·40	...	...
D	Applecross (Milltown)	.. .. Dr. H. B. Martin	NG(18)707439	20	...	55·69	243	198
	Applecross (Bealach)	.. .. D. J. Sutherland, Esq.	NG(18)756439	1300	...	70·23	...	...
D	Loch Kishorn (Culdoran)	.. .. Miss J. Huntsman	NG(18)843441	50	...	96·89	253	222
D	ACHNASHELLACH	.. .. Forestry Commission	NH(28)040491	220	79·9	91·94	280	220
M	§Coulin Pass	.. .. Forestry Commission	NH(28)025501	950	...	105·15	...	...
10.—INSULAR. OUTER HEBRIDES. 691 sq. mi.								
D	§STORNOWAY Airport	.. .. (+A) Meteorological Office	NB(19)465332	11	41·5	47·32	251	185
D	Stornoway (Back Schoolhouse)	.. .. A. Matheson, Esq., B.Sc.	NB(19)482401	102	...	47·25	252	191

§ Turf wall round gauge.

DIVISION XIX—NORTHERN COUNTIES

STATIONS	AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
		National grid reference	Altitude		Rain-fall	Days with ·01 in. or more	Days with ·04 in. or more

DIVISION XIX—NORTHERN COUNTIES

SUTHERLAND. (Area, 2,080 sq. mi.)

			ft.	in.	in.		
1.—DORNOCH FIRTH. 413 sq. mi.							
D	Dornoch (Ospisdale)	Mrs. J. O. Sudlow ..	NH(28)713898	100	...	35·69	235 136
D	Strath Oyke (Rosehall)	A. Munro, Esq. ..	NC(29)504000	250	36·8	40·89	241 173
D	LAIRG (ACHANY)	Forestry Commission ..	NC(29)570018	240	...	44·23	242 174
D	Glenrossal	Lt.-Col. P. C. H. Grant ..	NC(29)465040	130	43·4	51·65	245 185
d	Raonocloy	N. of S. Hydro-Electric Bd.	NC(29)566037	279	...	36·49	...
D	Loch Ailsh (Ben More Lodge) ..	N. of S. Hydro-Electric Bd.	NC(29)323114	513	...	88·07	262 248
d	Glen Cassley (Dalphaid)	N. of S. Hydro-Electric Bd.	NC(29)397145	360	...	77·79	...
D	Glen Cassley (Duchally)	N. of S. Hydro-Electric Bd.	NC(29)388170	436	65·6	74·79	245 230
	Glen Cassley (Ben More)	N. of S. Hydro-Electric Bd.	NC(29)346194	1240	...	150·05	...
D	Overscaig	N. of S. Hydro-Electric Bd.	NC(29)421226	305	...	67·41	251 213
M	Loch Shin (Fiag)	N. of S. Hydro-Electric Bd.	NC(29)445238	880	...	66·42	...
D	LAIRG (CRASK)	J. Bieleckie, Esq. ..	NC(29)525246	740	...	55·62	260 196
D	Loch Shin (Corrykinloch)	N. of S. Hydro-Electric Bd.	NC(29)365257	386	72·0	93·30	281 229

2.—FLEET, BRORA & C. 309 sq. mi.

D	Loch Merkland	N. of S. Hydro-Electric Bd.	NC(29)401297	387	...	80·56	225 203
§	Loch Merkland (Garvault)	N. of S. Hydro-Electric Bd.	NC(29)372305	1100	...	105·86	...
d	Lairg (Dalnessie)	N. of S. Hydro-Electric Bd.	NC(29)631152	581	...	37·15	...

3.—HELMSDALE & C. 226 sq. mi.**4.—NORTH COAST STREAMS. 736 sq. mi.**

d	Kinbrace (The Hatchery)	N. of S. Hydro-Electric Bd.	NC(29)872285	341	...	34·57	...
w	Loch Choire Lodge	N. of S. Hydro-Electric Bd.	NC(29)651305	575	...	59·06	...
	Loch Merkland (Ben Hee)	N. of S. Hydro-Electric Bd.	NC(29)409368	1700	...	132·25	...
D	Skerray (Borgie)	Forestry Commission ..	NC(29)663579	110	37·5	48·36	257 189
D	Tongue	D. Murray, Esq. ..		40	41·5	46·76	244 183
D	STRATHY (Bowside) <i>old site</i>	Department of Agriculture	NC(29)830609	125	...	44·39	257 191
D	STRATHY (Bowside) <i>new site</i>	Department of Agriculture	NC(29)830609	125	...	47·88	257 191
d	Melvich School	W. Macdonald, Esq. ..	NC(29)877650	200	...	39·83	238 178
D	CAPE WRATH	Principal Keeper, for M.O.	NC(29)259747	367	41·3	55·77	237 198

5.—LOCH LAXFORD & C. 256 sq. mi.**6.—ENARD BAY. 138 sq. mi.**

d	Elphin	Capt. H. MacLeod ..	NC(29)222118	600	61·4	75·69	262 235
D	Lochinver (Bank House)	G. W. Gordon, Esq., J.P. ..	NC(29)094223	22	44·6	57·03	240 204

7.—INSULAR. 2 sq. mi.

CAITHNESS. (Area, 696 sq. mi.)

1.—BERRIEDALE, DUNBEATH & C. 169 sq. mi.

M	Berriedale (Langwell)	Duke of Portland ..	ND(39)103224	230	...	35·70	...
	Clythness	Com'rs. of N. Lighthouses	ND(39)291363	133	29·6	35·10	...

2.—WICK & C. 184 sq. mi.

D	Wick Airport	(+A) Meteorological Office ..	ND(39)366523	119	29·9	33·75	237 160
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3.—THURSO & C. 238 sq. mi.

d	Halkirk (Westerdale)	Rev. A. S. Maciver ..	ND(39)129517	195	...	36·33	226 174
d	HALKIRK (OLGRINBEG P.S.)	N. of S. Hydro-Electric Bd.	ND(39)091527	232	...	38·85	219 174
d	Loch Calder (Achavarn Weir)	County Water Engineer ..	ND(39)086595	221	...	36·69	198 155

§ Turf wall round gauge.

DIVISION XIX—NORTHERN COUNTIES—(contd.)

STATIONS		AUTHORITES	Rain-gauge site		Average Rain-fall	1957		
			National grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .01 in. or more
CAITHNESS—(contd.)								
3.—THURSO & C.—(contd.)								
D	Thurso (Buckies)	.. .. Miss J. W. Davidson	ND(39)109633	240	39.0	36.67	229	187
	Thurso (Holburn Head)	.. .. Com'rs. of N. Lighthouses	ND(39)108707	68	...	33.84	205	186
4.—FORSS & C. 104 sq. mi.								
5.—INSULAR. 1 sq. mi.								
ORKNEY ISLANDS. (Area, 389 sq. mi.)								
M	Pentland Skerries Lighthouse	.. .. Com'rs. of N. Lighthouses	ND(39)465785	70	...	36.66	207	153
M	Hoy (Cantick Head)	.. .. Com'rs. of N. Lighthouses	ND(39)346893	68	32.9	31.56	215	179
M	Hoy (Graemsay Sound, High)	.. .. Com'rs. of N. Lighthouses	HY(310)246066	29	35.8	42.79	208	169
D	§ GRIMSETTER Airport	.. .. (+A) Meteorological Office	HY(310)483076	84	...	43.46	241	172
D	Stenness	.. .. Mr. P. Leith, Jr.	HY(310)299118	75	...	43.74	235	177
M	Hellyar Holm	.. .. Com'rs. of N. Lighthouses	HY(310)483151	35	32.9	40.39	220	171
M	Shapinsay (Balfour Castle)	.. .. Mr. J. W. Liddell	HY(310)474165	50	32.0	41.80	...	...
M	Sanday (Start Point)	.. .. Com'rs. of N. Lighthouses	HY(310)787435	27	31.1	42.83	226	183
D	SULE SKERRY	.. .. Principal Keeper, for M.O.	HX(210)623241	43	...	43.39	247	174
SHETLAND ISLANDS. (Area, 558 sq. mi.)								
d	Sandwick	.. .. Zetland County Council	HU(411)411250	330	...	44.56	246	194
D	Burra Isle	.. .. Zetland County Council	HU(411)373337	100	...	42.24	238	193
D	LERWICK OBSERVATORY	.. .. (+A) Meteorological Office	HU(411)454396	269	38.1	46.67	249	194
D	Bixter (Vementry)	.. .. Capt. D. Cross	HU(411)309597	25	37.2	45.73	254	202
D	BALTASOUND (Halligarth)	.. .. P. Tait, Esq.	HP(412)609090	30	42.1	52.61	268	208

† Northern Ireland

FERMANAGH. (Area, 713 sq. mi.)

1.—ERNE. 667 sq. mi.							
D Newtownbutler (Crom Castle) ..	.. The Earl of Erne ..		200	38.7	41.83	236	182
D Florencecourt .. ..	.. The Earl of Enniskillen ..		274	...	46.75	228	167
D Enniskillen (Bellevue) .. ..	.. Lady Margaret Lowry-Corry	IH(23)253410	210	...	39.36	261	170
D Colebrooke .. ..	.. Viscount Brookeborough ..	IH(23)410446	250	...	41.49	219	182
D Belleek (Roscor) .. ..	.. Mrs. M. K. Dick, for M.O.	IG(13)971551	500	...	48.25	250	196
D Belleek .. ..	.. Mrs. Beacom ..	IG(13)944590	150	...	50.89	247	207
d Irvinestown (R.U.C.) .. ..	.. Sergeant in Charge* ..		303	...	41.02	...	...

2.—DROWES & C. 46 sq. mi.

ARMAGH. (Area, 514 sq. mi.)

1.—DUNDALK BAY. 118 sq. mi.**2.—CARLINGFORD LOUGH. 23 sq. mi.**

n Bessbrook (The Woodhouse) J. S. W. Richardson, Esq.		260	...	41.09	221	170
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§ Turf wall round gauge.

* Per Govt. of Northern Ireland.

† Irish grid reference.

NORTHERN IRELAND—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			Irish grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
ARMAGH—(contd.)				ft.	in.	in.		
3.—BANN. Lough Neagh, East. 37 sq. mi.								
4.—BANN. UPPER. 144 sq. mi.								
D	Ballylane (Waterworks)	.. .. Engineer, Armagh R.D.C...	IH(23)965352	480	...	41·47	227	174
d	Markethill (Whitecross)	.. .. R.U.C. Barracks*	IH(23)987313	400	...	39·83	195	163
5.—BANN. Lough Neagh, West. 192 sq. mi.								
D	Seagahan Reservoir	.. .. (+ A) Armagh & Dungannon W.W.	IH(23)898379	525	...	40·53	232	165
D	Tynan Abbey	.. .. Sir Norman Stronge, Bart.	IH(23)759422	167	...	37·19	219	171
D	ARMAGH Observatory	.. .. (+ A) Director of Obsy., for M.O.	IH(23)874457	205	31·7	35·92	220	164
d	Richhill (Sandymount)	.. .. Mrs. C. B. Lamb	IH(23)924495	200	...	36·93	191	156
DOWN. (Area, 961 sq. mi.)								
1.—CARLINGFORD LOUGH. 104 sq. mi.								
D	Newry (Bridge Street House)	.. .. C. Blaney, Esq.	IJ(33)083259	23	38·1	38·24	199	157
2.—DUNDRUM BAY & C. 173 sq. mi.								
D	KILKEEL (Coastguard Station)	.. .. Station Officer, for M.O. ..	IJ(33)314141	59	...	36·60	195	143
d	Newcastle	.. .. Alastair Simpson, Esq. ..	IJ(33)377312	10	...	49·57	...	...
D	Silent Valley (Belfast Waterworks)	.. .. R. E. D. Bain, Esq., B.A. ..	IJ(33)305210	457	...	60·02	226	181
D	Annalong (Belfast Waterworks)	.. .. R. E. D. Bain, Esq., B.A. ..	IJ(33)355225	435	...	56·76	225	159
M	Mourne Mount'ns (Slieve Lamagan)	.. .. R. E. D. Bain, Esq., B.A. ..	IJ(33)322255	1320	...	82·60	...	...
M	Mourne Mount'ns (Lough Shannagh)	.. .. R. E. D. Bain, Esq., B.A. ..	IJ(33)298259	1280	65·6	83·03	...	...
M	Mourne Mount'ns (Slieve Bearnagh)	.. .. R. E. D. Bain, Esq., B.A. ..	IJ(33)314279	1954	...	80·20	...	...
D	Foffany Reservoir	.. .. Engineer, Portadown W.W.	IJ(33)285291	940	...	69·54	210	178
D	Seaforde	.. .. Lt.-Col. D. C. Forde	IJ(33)402435	180	38·3	46·92	192	163
3.—STRANGFORD LOUGH. 260 sq. mi.								
d	Lough Cowey (Waterworks)	.. .. H. S. L. Knight, Esq., C.E.	IJ(33)596545	45	...	33·45	142	122
d	Ballynahinch Spa	.. .. J. A. G. J. Robb, Esq. ..	IJ(33)375481	285	...	39·96	...	...
D	DUNDONALD (Heatherdene)	.. .. W. R. McKibbin, Esq. ..	IJ(33)426728	105	...	38·23	193	150
4.—COAST STREAMS. 47 sq. mi.								
D	Ballywalter Park	.. .. Lord Dunleath	IJ(33)620682	50	...	35·82	216	159
D	Donaghadee (Orlock Reservoir)	.. .. Resident Engineer	IJ(33)561827	23	...	30·92	186	143
5.—BELFAST LOUGH. 206 sq. mi.								
D	Dromara	.. .. Govt. of Northern Ireland ..	IJ(33)289495	400	...	44·25	202	169
D	HILLSBOROUGH (Ag. Research Inst.)	.. .. Secretary	IJ(33)251577	388	33·5	37·01	214	160
D	Hillsborough (Lisadian)	.. .. W. J. McCann, Esq. ..	IJ(33)219591	217	...	36·03	210	161
D	Dundonald (Moyard)	.. .. Dr. F. G. L. Barnes ..	IJ(33)412730	200	...	36·56	201	142
D	BELFAST (STORMONT CASTLE)	.. .. Estate Superintendent ..	IJ(33)402748	186	...	35·59	194	144
D	Conlig Reservoir	.. .. Bangor Borough Council ..	IJ(33)499781	213	...	39·63	222	152
D	Ballysallagh Reservoir	.. .. Bangor Borough Council ..	IJ(33)455785	245	...	41·05	193	156
D	HOLYWOOD (Waterworks)	.. .. Town Surveyor	IJ(33)409780	346	...	40·16	197	157
D	Bangor (Garth House School)	.. .. Miss E. N. Swanson ..	IJ(33)494822	120	...	36·80	188	144
6.—BANN. Lough Neagh East. 7 sq. mi.								
7.—BANN. UPPER. 162 sq. mi.								
M	Mourne Mountains (Deers Meadow)	.. .. Engineer, Portadown W.W.	IJ(33)260257	1250	...	74·44	...	...
M	Mourne Mountains (Ott)	.. .. Engineer, Portadown W.W.	IJ(33)280272	1500	...	76·55	...	...

* Per Govt. of Northern Ireland.

NORTHERN IRELAND—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			Irish grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
DOWN—(contd.)				ft.	in.	in.		
7.—BANN. UPPER—(contd.)								
D	Mourne Mountains (Spelga Dam)	.. Engineer, Portadown W.W.	IJ(33)263273	1050	...	73.52	217	190
d	Banbridge	.. Town Surveyor	IJ(33)123457	252	...	37.12	...	...
8.—INSULAR. 2 sq. mi.								
ANTRIM. (Area, 1,193 sq. mi.)								
1.—BELFAST LOUGH. 107 sq. mi.								
D	Dunmurry (Lagmore)	.. R. E. D. Bain, Esq., B.A.	IJ(33)265690	385	...	45.26	229	177
D	Belfast (Sewage Works)	.. City Surveyor	IJ(33)352770	26	...	36.39	190	144
D	Belfast (Oldpark Filters)	.. R. E. D. Bain, Esq., B.A.	IJ(33)323775	203	...	43.77	208	173
D	Carrickfergus (Dorisland)	.. R. E. D. Bain, Esq., B.A.	IJ(33)386879	271	...	42.95	227	176
D	Carrickfergus (Knockagh)	.. R. E. D. Bain, Esq., B.A.	IJ(33)364880	723	...	45.52	230	178
D	Carrickfergus (South Woodburn)	.. R. E. D. Bain, Esq., B.A.	IJ(33)371893	640	...	44.69	224	177
D	Carrickfergus (North Woodburn)	.. R. E. D. Bain, Esq., B.A.	IJ(33)367904	735	...	47.23	236	179
D	Carrickfergus (Copeland)	.. R. E. D. Bain, Esq., B.A.	IJ(33)429916	427	...	40.70	218	171
D	Carrickfergus (Lough Mourne)	.. R. E. D. Bain, Esq., B.A.	IJ(33)416922	596	...	44.15	230	180
2.—GLENARM & C. 186 sq. mi.								
D	Larne (Ballycarry)	.. John McClintock, Esq.	IJ(33)459949	210	...	38.96	196	150
D	Larne (Sallagh Springs)	.. H. C. Walker, Esq.	ID(34)348049	566	...	56.29	250	198
D	PARKMORE FOREST	.. N. Stephens, Esq.	ID(34)203207	779	...	62.90	239	199
3.—BUSH & C. 193 sq. mi.								
M	Cloughmills (Altnahinch)	.. Ballymoney R.D.C.	ID(34)123230	830	...	57.84	...	...
D	Ballycastle (Coolgreany)	.. E. R. Casement, Esq.	ID(34)123406	90	...	38.78	221	174
4.—BANN. LOWER. 112 sq. mi.								
D	Toomebridge	.. M. of Finance Lock Keeper*	IH(23)988905	59	...	37.28	222	172
5.—BANN. Lough Neagh, East. 590 sq. mi.								
D	Stoneyford (Belfast Waterworks)	.. R. E. D. Bain, Esq., B.A.	IJ(33)221701	453	...	41.35	255	169
D	Leathemstown (Belfast Waterworks)	.. R. E. D. Bain, Esq., B.A.	IJ(33)214723	534	...	40.53	230	169
D	NUTTS CORNER (Belfast Airport)	.. Meteorological Office	IJ(33)196776	338	...	38.07	211	160
D	ALDERGROVE Airfield	.. (+A) Meteorological Office	IJ(33)143800	220	33.0	34.22	207	145
D	Randalstown	.. Old Bleach Linen Co. Ltd.	IJ(33)083907	100	...	40.83	216	175
W	Ballyclare (Killylane Res.)	.. F. G. Johnston, Esq.	IJ(33)279986	741	...	51.66	...	...
D	Ballymena (Harryville)	.. R. Leathem, Esq.	ID(34)107028	150	41.5	41.58	234	167
D	Broughshane (Quolie)	.. H. W. Craig, Esq., C.E.	ID(34)178128	864	...	55.16	260	208
6.—INSULAR. 5 sq. mi.								
LONDONDERRY. (Area, 816 sq. mi.)								
1.—LOUGH SWILLY. 6 sq. mi.								
2.—BUSH & C. 9 sq. mi.								
3.—BANN. LOWER. 240 sq. mi.								
D	Upperlands (Ardtara)	.. W. M. W. Clark, Esq.	IC(24)874047	250	...	43.83	258	189
D	GARVAGH (MONEYDIG)	.. J. Porter, Esq.	IC(24)890170	121	38.8	44.02	241	177
D	Coleraine (The Cutts)	.. M. of Finance Lock Keeper*	IC(24)854302	22	37.5	41.50	236	187
4.—BANN. Lough Neagh, West. 196 sq. mi.								
D	Draperstown (Ard Muiri)	.. James Gunn, Esq.*	IH(23)779947	267	...	50.74	266	177

* Per Govt. of Northern Ireland.

§ Turf wall round gauge.

|| Gauge over-exposed.

NORTHERN IRELAND—(contd.)

STATIONS		AUTHORITIES	Rain-gauge site		Average Rain-fall	1957		
			Irish grid reference	Altitude		Rain-fall	Days with .01 in. or more	Days with .04 in. or more
LONDONDERRY—(contd.)				ft.	in.	in.		
5.—FOYLE & C. 365 sq. mi.								
M	Glenedra Hill .. ..	.. Londonderry C.B.C. ..	IH(23)696992	1333	...	61·77	...	...
M	Glenedra Lodge .. ..	.. Londonderry C.B.C. ..	IC(24)705005	950	57·0	59·08	...	...
M	||Glenedra (Altagarran Mountain)	.. Londonderry C.B.C. ..	IC(24)711012	1230	...	56·59	...	...
M	Dungiven (Labbyheige) ..	.. Londonderry C.B.C. ..	IC(24)723021	1150	...	60·66	...	...
M	Altnaheglish (Altabrogy Burn)	.. Londonderry C.B.C. ..	IC(24)701033	967	...	57·50	...	...
M	Altnaheglish (Glack Burn) ..	.. Londonderry C.B.C. ..	IC(24)707040	967	...	53·72	...	...
D	Dungiven (Banagher Filters) ..	.. Londonderry C.B.C. ..	IC(24)670046	373	...	49·43	255	194
D	Dungiven (Grianan) .. ..	.. A. E. Bunn, Esq.* ..	IC(24)694089	330	...	41·70	251	175
D	Londonderry (Creggan Reservoir)	.. City Surveyor ..	IC(24)415171	325	41·8	42·29	246	184
D	Limavady (Drenagh) .. ..	.. Lt.-Col. C. R. McCousland	IC(24)689236	80	37·0	39·69	245	194
TYRONE. (Area, 1,257 sq. mi.)								
1.—ERNE. 46 sq. mi.								
2.—BANN. Lough Neagh, West. 442 sq. mi.								
D	Dungannon (Aloha) .. ..	.. Major R. Stevenson ..	IH(23)807614	275	...	39·15	229	172
D	Dungannon Park .. ..	.. Dungannon Park, Ltd. ..	IH(23)802606	250	...	42·25	255	198
D	Castlecaulfield (Parkanaur) ..	.. Major Y. A. Burges ..	IH(23)739614	250	...	38·83	243	175
D	Cookstown (Loughery Agric. College)	J. A. Young, Esq.* ..	IH(23)813743	208	41·3	38·04	224	169
3.—FOYLE. 769 sq. mi.								
D	Omagh (Edenfel) .. ..	.. Mrs. F. M. Hammond Smith	IH(23)464718	280	40·1	41·32	226	193
d	Gortin (Beltrim School) .. ..	.. H. C. Willis, Esq.* ..	393	...	...	46·59	211	185
d	Sion Mills (Sion House) .. ..	.. Capt. J. C. Herdman ..	IH(23)340934	100	39·1	42·10	...	...

* Per Govt. of Northern Ireland.

|| Gauge over-exposed.

BRITISH RAINFALL 1957

PART III

SNOW SURVEY OF GREAT BRITAIN SEASON 1956-57

The report which follows is the first annual report of the Snow Survey of Great Britain to appear in British Rainfall. Previous annual reports, commencing with that for the season 1953-54, were also prepared in the climatological division of the Meteorological Office, but were published in the *Meteorological Magazine*. Annual reports for the seasons 1946-47 to 1952-53 were prepared by the British Glaciological Society, from whom the Meteorological Office assumed responsibility for the Survey in 1953, and were published in the *Journal of Glaciology*.

The basic material for this report has been obtained, as in previous years, from returns made by voluntary observers who have provided, month by month, daily records of snowfall and of any snow cover in sight. These records, from a network of stations distributed over the country, have been augmented by data extracted from the regular monthly returns from official weather stations and from voluntary climatological stations reporting to the Meteorological Office. Without the co-operation of all those responsible for the voluntary observations, this report could not have been prepared in anything like its present detail.

The measurements of snow depth in the following pages refer, in general, to 0900 G.M.T. or thereabouts.

Summary of 1956-57 season

Temperature was above average for the season as a whole and precipitation below

average, particularly over England and Wales, with snowfall well below average. Data for ten representative stations* in Great Britain at altitudes between 400 and 1,200 ft., which have been used for seasonal comparison since the Survey of 1946-47, give a mean of 12 days with snow lying at the morning observation. This compares with a mean of 36 days for the 1955-56 season and an average value of 35 days for the past ten seasons. Other relatively snow free seasons were 1948-49 and 1949-50 with means in this series of 15 days and 13 days respectively. The snowfall of the season under review occurred mainly in the months December, January and February, most frequently over the Yorkshire Pennines in December, and over the Scottish mountains in January and February.

The number of days with snow falling ranged from more than 70 in the Cairngorms to nil in a number of places along the southern coasts of England and Wales. Over high ground, totals of about 40 days were reported from the Lowther Hills and Ben Nevis, 30 to 35 days in the northern Pennines and Snowdonia, and 10 to 15 days over Dartmoor. At low levels snow fell on 50 to 60 days in the Shetlands, on 30 to 40 days in the Orkneys, and 20 to 30 days in northern coastal areas of Scotland. Totals of 10 to 20 days were

* These stations are Dalwhinnie, Braemar, Penicuik, Eskdalemuir, Huddersfield (Oakes), Buxton, Dunstable, Little Rissington, Princetown and Llandrindod Wells. Penicuik, Dunstable and Llandrindod Wells are replacements for West Linton, Whipsnade and Rhayader respectively, the three stations used until season 1954-55.

reported from many districts including northern East Anglia, eastern coastal areas as far north as the Tay, relatively low-lying areas of the Midlands, and parts of Wiltshire and Kent. Snow fell on less than 10 days over much of southern England and in western coastal districts of England, Wales and southern Scotland. The seasonal duration of snow cover in the mountainous regions of Great Britain is summarized in Table I and illustrated for a selected number of these regions in Fig. 2. For low-level areas totals of 10 to 15 days with snow lying were reported from parts of the Shetlands and from Worcestershire and the north-east Midlands, otherwise snow lay on not more than 5 days at many places near sea-level, with many coastal stations of England and Wales failing to report a single day with snow lying.

Notes on the months.—August 1956 was very wet and cool. Snow or sleet showers were reported from Baltasound, 78 ft., in the Shetlands on the 29th and from Glenlivet, Banff, 1,050 ft., on the 30th. Snow also occurred in the Cairngorms on the 30th, where, on Braeriach, it lay for 24 hours at heights above 3,700 ft. September was another wet month, but with temperatures slightly above average. Snowfall was slight and confined to northern districts. Sleet showers were reported from Stenness, 75 ft., in the Orkneys on the 11th, and late in the month scattered snow showers occurred over the Grampians, down to 3,000 ft. around Ben Nevis and to 2,000 ft. around Glenshee Lodge in Perthshire, but little settled at these levels.

October was generally dry and sunny with temperatures around normal. Cold unstable air spread southwards very early in the month and persisted until the 6th. Snow showers occurred over much of the high ground above about 1,000 ft. in Scotland and extreme northern England, and also above 2,000 ft. in Snowdonia. Snow showers were reported down to sea-level in the Orkneys and Shetlands and in a few places in north-east Scotland, while sleet showers occurred as far

south as the Wirrall. There was little further snow until the last week of the month when a fresh outbreak of arctic air brought widespread snow showers to Scotland, including the Western Isles, and more scattered showers to north-west England, the Midlands and north-west Wales. Amounts of snow were small although drifts of 18 in. to 24 in. were reported early in the month at 3,700 ft. in the Cairngorms. Snow lay for a total of 27 days at 4,000 ft. on the northern slopes of Ben Nevis, where it was to remain for much of the season. During both snowy periods snow lay at 1,000 ft. for a day or two in parts of northern Scotland and settled at this level in the Cheviots on the 25th. On the same day the snow line temporarily came down to 500 ft. around Glengyle, Perthshire, and to 1,500 ft. in both the Lake District and Snowdonia.

November, like October, was generally dry. Temperatures were above normal in Scotland, but slightly below average in England and Wales. Snowfall was confined to the last seven days of the month and then occurred in most areas except south-west England and south Wales, although the falls in many places were small. Very cold continental air spread into the British Isles on the 22nd, and many places, mainly over high ground in Scotland and northern England, had slight falls of snow. After two much milder days, very cold air returned southwards on the 26th. Snow showers became frequent over Scotland between the 26th and 30th and also occurred in many parts of England and Wales on the 28th and 29th. Snow lay at many places in Scotland for a number of days and in parts of northern England, the Midlands and Wales for a day or two, although coastal areas, particularly those in the west, remained relatively clear. Near sea-level the depth of snow lying was small, but depths of 3 in. at 3,000 ft. with drifts of 4 ft. were reported from the Cairngorms on the 27th, with 5 in. at Glenlivet, 1,050 ft., and Dalwhinnie, 1,175 ft., in the Grampians on the 29th, and 2 to 3 in. at 2,000 ft. in Snowdonia from the 28th to the

30th. Late in the month the snow line came down to sea-level in north-east England, north and east Scotland, to around 500 ft. in north Wales and to 1,000 ft. over Dartmoor.

December was dull and mostly mild, particularly during the first eight days. Outbreaks of polar air in the rear of a succession of depressions moving north-eastwards off north-west Scotland brought snow showers to much of Scotland and some northern districts of England and Wales between the 11th and the 16th. Falls were slight in the south, but heavier further north where a depth of 2½ in. was measured at Achnagoichan, Inverness-shire, 1,000 ft., on the 13th. Snow lay for 2 to 3 days in the north, down to near sea-level in places, and for 1 to 2 days in the south, but rarely below 1,000 ft. A series of troughs moving east-north-eastwards from the Atlantic brought snow to most districts of Great Britain, except south-west England, between the 23rd and 26th, with light snow continuing intermittently in the extreme north until the 28th. On the 26th and 27th snow lay to a depth of 2 to 4 in. in the south Midlands, and 6 to 8 in. in parts of the north Midlands and the higher ground in Wales. Falls of 9 in. were measured at Ross-on-Wye, Herefordshire, 223 ft., and Evancoyd, Radnorshire, 744 ft., on the morning of the 26th: on the same day drifts of 4 ft. were reported from Hirnant, Radnorshire, 1,250 ft., and at Tairbull, Brecknockshire, 660 ft., with 8 ft. drifts on the hills in Brecknockshire. Further north the greatest snow depths were reported a little later in the month, 6 in. being recorded at Slaidburn, Yorkshire, 630 ft., and at Catcleugh, Northumberland, 800 ft., on the 28th, with drifts of more than 3 ft. around Alston, Cumberland, 1,070 ft. In Scotland, 10 in. lay at Glenshee, Perthshire, 1,100 ft., on the morning of the 27th.

The first few days of January 1957 were very mild with heavy rain, but colder air reached Scotland from the north-west on the 8th and spread to all areas. Between the 9th and 13th scattered snow showers occurred in most areas

except the extreme south. Amounts of snow were small over low ground, but 3½ in. was measured on the 9th at Llanbadarnfynydd, Radnorshire, 1,250 ft. Showers became more widespread in central and eastern districts on the 14th and 15th as winds veered east of north. A few showers also occurred on the 16th in the south and, although a patchy cover of snow existed by this time over a substantial area including north Scotland, north and east England, the Midlands and parts of south-west England, falls were not heavy. After a few days of quiet, anticyclonic weather, unsettled conditions developed around the 20th and persisted until the end of the month. Snow was reported from some part of Great Britain on each day from the 21st to the 31st, with widespread snow showers on the 24th, 26th and 27th, days on which successive outbreaks of maritime polar air covered all areas. Many places in west Scotland, north-west England, the Midlands, Wales and south-east England reported snow lying between the 24th and 26th. There was a fairly general snow cover over north and east Scotland on the 27th, where depths of 6 in. were reported from Fairburn, 500 ft., and Glenferness, 700 ft., both in Ross and Cromarty, with drifts of 2 to 4 ft. at about 600 ft. in the Ardtalnaig area of Perthshire. The snow line came down to sea-level at times in most northern and eastern districts, but did not fall below about 500 ft. in west Scotland and north Wales and about 1,000 ft. in south Wales and south-west England.

Snow showers were widely reported over north and east Scotland on February 1 and 2, with scattered showers over high ground in northern England. Snow lay fairly generally over north Scotland and reached a depth of 3 in. at Achnagoichan, Inverness-shire, 1,000 ft., on the 2nd. Further snow showers occurred over much of Scotland on the 5th and 6th, but amounts were small and little snow settled on low ground. A mild unsettled spell followed in all areas with much rain but very little snow. Cold weather spread southwards over Great Britain on the

14th, persisting until the 20th in the south and until the 25th in the extreme north. This was the snowiest part of the winter, with fairly frequent outbreaks of snow in all areas. South-west England and Wales were affected from the 16th to the 18th, there being a fall of $3\frac{1}{2}$ in. at Wootton Courtenay, Somerset, 485 ft., on the 16th. Falls were numerous over the Midlands and parts of Yorkshire on the 18th and 19th, snow lying to a depth of 15 in. at Redmires, Yorkshire, 1,100 ft., and 12 in. at Leicester on the morning of the 19th. The latter fall was noteworthy in that relatively very little snow fell outside the city boundary. A vigorous trough of low pressure moving north-eastwards brought general snow to northern England on the 23rd and to Scotland on the 24th and 25th; drifts of 3 ft. were reported at 1,000 ft. in Cumberland and drifts of 7 ft. at 1,500 ft. in Perthshire. Snow lay from the 12th to the 28th at Derry Lodge, Inverness-shire, 1,400 ft., and from the 15th to the 23rd at Glackour, Ross and Cromarty, 64 ft. As far south as the Midlands a snow cover persisted at Bishops Castle, Shropshire, 735 ft., from the 15th to the 24th, whilst snow was lying from the 15th to the 20th at 1,400 ft. on Dartmoor. The snow line came down to sea-level in most parts of Great Britain during the month except in the extreme south-west where it reached down to about 800 ft. on Dartmoor on the 16th.

March was very mild with very little snow. Between the 2nd and 4th scattered snow showers occurred in north and east Scotland and there were a few sleet showers in north-west England on the 4th and 5th. Amounts of snow were very small and little settled below 1,000 ft., even in the north. After a mild, rainy spell very warm dry air spread northwards from Spain and temperatures rose to above 70 °F. in many places. Snow cleared from most high ground except the highest peaks in Scotland where the snow line receded temporarily to 3,000 to 3,500 ft. Temperatures fell after the 13th, and on the 20th an influx of polar air gave a few snow showers in Scotland and northern England with sleet

showers in the Midlands, but no snow settled below 1,500 ft. Further showers occurred in the extreme north on the 26th and 27th and, although no snow settled at low levels, a depth of 12 in. was measured at a height of 2,400 ft. in the Cairngorms.

April was an exceptionally dry month with temperatures slightly above average. The first five days were warm, but cooler north-easterly winds then spread across all areas. On the 10th a further abrupt fall in temperature followed in the north and reached the extreme south on the 12th. Snow showers developed in many areas between the 10th and 12th and were widespread on the 11th, affecting areas as far south as Dorset. Amounts were small, however, and no snow lay below about 1,500 ft. in England and Wales and below 500 ft. in Scotland, although a little settled near sea-level in the Shetlands. Milder weather with slight rain, preceded in Scotland by moderate snow in places above 2,500 ft., followed on the 14th and persisted for a few days, but outbreaks of polar air on the 17th, 18th and 19th brought a few snow showers to the Orkneys and Shetlands and parts of Sutherland. Further light snow was reported over the mountains of Scotland on the 22nd and 31st.

May was dry and sunny with temperatures a little above average. After two warm sunny days in all areas, arctic air spread quickly southwards on the 3rd. Between the 3rd and 6th snow showers occurred in many areas except south Wales and south-west England and were widespread on the 5th, when they were reported as far south as Sussex. Snow-fall was generally slight and none settled at low levels, the snow line falling only to 1,000 ft. in northern Scotland and not below 2,500 ft. in north Wales and north-east England. Troughs of low pressure moving slowly eastwards brought substantial rain to many districts between the 7th and 9th, with snow, moderate in places but non-persistent, above 2,500 ft. in the mountains of north and west Scotland and above 3,000 ft. on the peaks in north Wales. After a mild, unsettled spell

another outbreak of polar air brought a few snow showers to the highest ground in northern districts of Scotland and Wales on the 18th and 19th. By about the 20th Snowdonia was

clear of snow, there was less than half cover on the Ben Macdhui plateau at 4,000 ft. in the Cairngorms, but snow still lay at 3,000 ft. on the north-facing slopes of Ben Nevis.

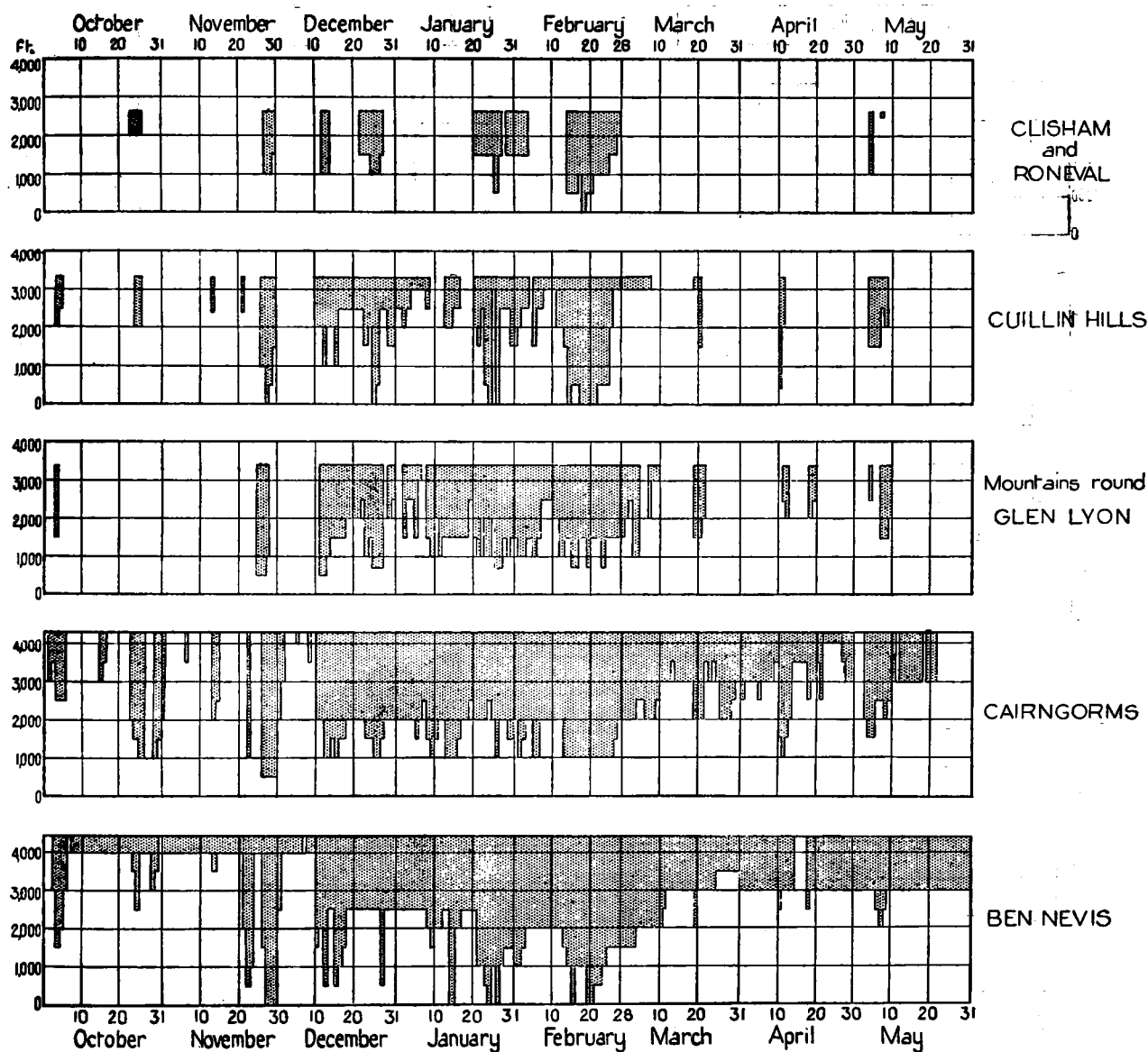


Fig. 1. DISTRIBUTION OF SNOW COVER IN RELATION TO HEIGHT
SCOTLAND

Duration of snow cover on British mountains.
—The mean number of days of snow cover at 2,500 ft. on four mountain groups is used as an index for comparing successive seasons. For 1956-57 it was 61 compared with 97 in the

previous season and an average of 81 for the past ten seasons. The stations used were Glenbrittle (Cuillin Hills, 3,309 ft.), Meggernie Castle (mountains around Glen Lyon, 3,407 ft.), Capel Curig (Snowdonia, 3,560 ft.)

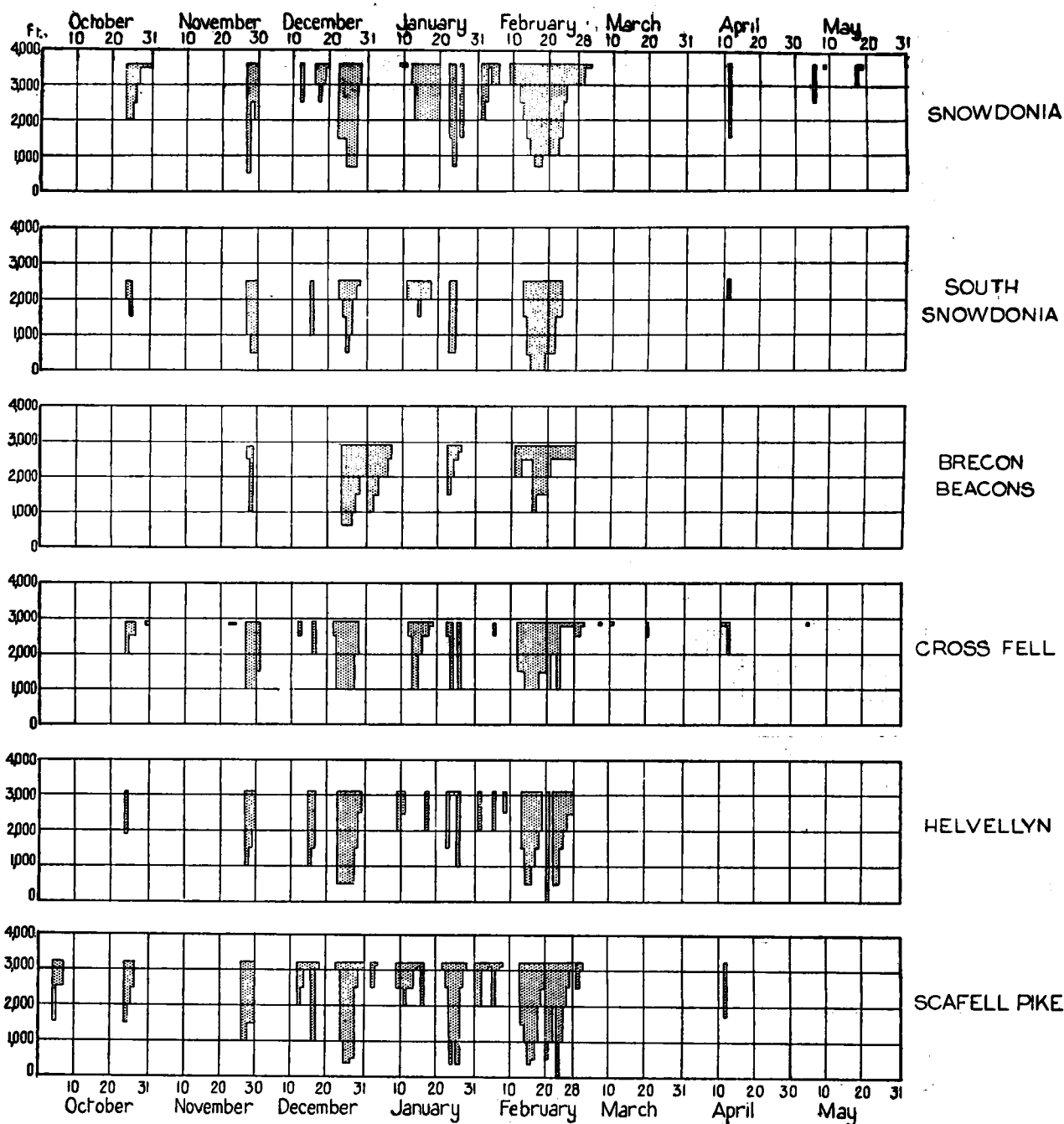


Fig.1.(cont) DISTRIBUTION OF SNOW COVER IN RELATION TO HEIGHT
ENGLAND AND WALES

and Tairbull (Brecon Beacons, 2,906 ft.). The heights of the various mountain ranges given here and also in Table 1 are those of the highest peaks visible from the observing stations.

Diagrams showing the distribution of snow cover relative to height for 11 areas are given in Fig. 1. They are based very largely upon

the reports received for the relevant station given in Table 1. On a small number of occasions it was found necessary to supplement these reports with those from other stations in the same area, although it has not been possible to include the names of these additional stations in the table.

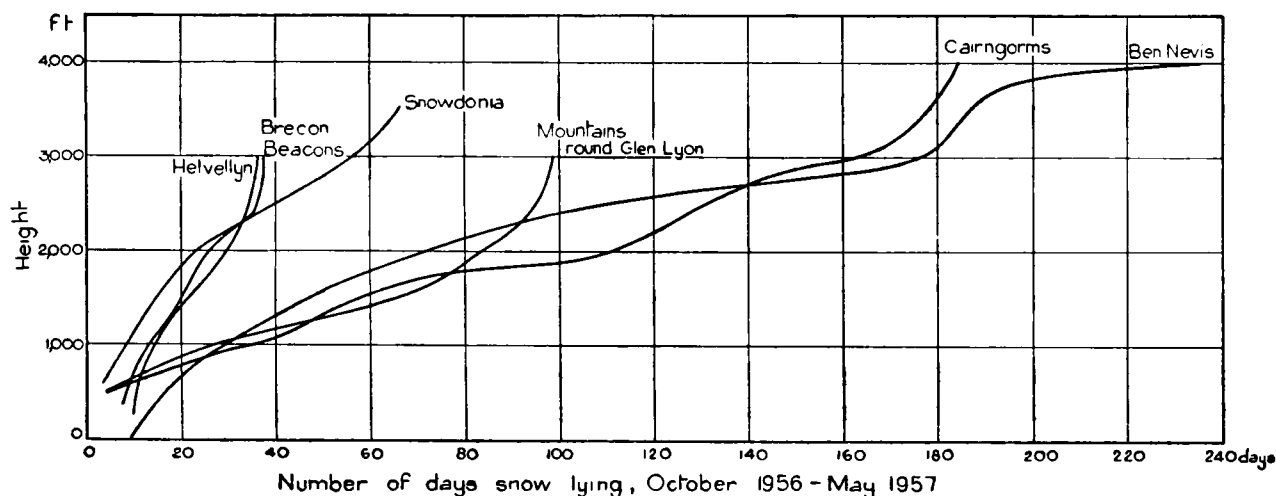


Fig 2 SEASONAL DURATION OF SNOW COVER

Table 1. Number of days with snow lying in the British Mountains
(a) near summit; (b) at about 2,500 ft.; (c) at station level.

		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Season
Clisham and Roneval (2,622 ft.) Station: Leverburgh, Harris, Inverness-shire (25 ft.)	a } b } c }	3 3 0	3 3 0	8 8 0	10 10 0	18 18 1	0 0 0	0 0 0	2 2 0	44 44 1
Cuillin Hills (3,309 ft.) Station: Glenbrittle, Skye, Inverness-shire (30 ft.)	a b c	4 4 0	6 6 1	21 21 1	24 19 2	27 22 6	10 1 0	2 2 0	5 5 0	99 80 10
Mountains round Glen Lyon (3,407 ft.) Station: Meggernie Castle, Perthshire (760 ft.)	a b c	1 1 0	3 3 1	19 19 5	28 27 2	28 28 6	11 9 0	4 4 0	4 4 0	98 95 14
Cairngorms (4,296 ft.) Station: Achnagoichan, Inverness-shire (1,000 ft.)	a b c	13 9 1	9 8 5	25 22 5	31 31 4	28 28 16	31 17 0	30 8 0	17 7 0	184 130 31
Ben Nevis (4,406 ft.) Station: Corpach, Inverness-shire (30 ft.)	a b c	27 3 0	30 7 3	30 22 0	31 31 3	28 28 3	31 13 0	27 2 0	31 3 0	235 109 9
Snowdonia (3,560 ft.) Station: Capel Curig, Caernarvonshire (700 ft.)	a b c	7 3 0	3 3 1	11 7 3	13 10 1	23 14 2	4 0 0	1 1 0	4 1 0	66 39 7
South Snowdonia (2,527 ft.) Station: Llanfrothen, Merionethshire (475 ft.)	a } b } c }	2 0 0	3 2 1	6 1 1	9 2 2	11 5 5	0 0 0	1 0 0	0 0 0	32 10 10
Brecon Beacons (2,906 ft.) Station: Tairbull, Brecknockshire (660 ft.)	a b c	0 0 0	2 2 0	7 7 3	11 10 0	17 17 0	0 0 0	0 0 0	0 0 0	37 36 3
Cross Fell (2,893 ft.) Station: Alston, Cumberland (1,070 ft.)	a b c	4 3 0	6 3 3	10 10 5	10 9 4	17 13 6	6 3 0	3 1 0	1 0 0	57 42 18
Helvellyn (3,118 ft.) Station: Patterdale, Westmorland (520 ft.)	a b c	1 1 0	3 3 0	9 9 5	7 5 0	16 16 5	0 0 0	0 0 0	0 0 0	36 34 10
Scafell Pike (3,210 ft.) Station: Windermere, Westmorland (350 ft.)	a b c	6 6 0	4 4 0	14 8 2	16 12 2	23 17 2	2 1 0	1 1 0	0 0 0	66 49 6

THE VARIANCE OF EVAPORATION, RAINFALL, SOIL MOISTURE DEFICIT AND RUN-OFF

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In assessing the water yield from a catchment area or the irrigation water requirements of an agricultural district it is most important to know the extent of their year to year variation as well as their long-term average values. Variation in the water yield from a catchment area is influenced by the variation in the summer soil moisture deficit as this determines the time and amount of through drainage and run-off during the late summer and autumn months. The variation in irrigation need will also depend on the variation in the maximum annual soil moisture deficit and this will affect the economic significance of irrigation.

Hitherto the calculation of soil moisture deficit variance has been based solely on the variance of summer rainfall (Pearl, 1954). However, if soil moisture deficit is defined as the cumulative difference between water loss and rainfall when the soil is drier than field capacity, and if the water yield is defined as the cumulative difference between annual rainfall and annual water loss, then the variance of both soil moisture deficit and water yield equals the variance of rainfall plus the variance of water loss minus twice the covariance of rainfall and water loss. If the last term is negative, and the variance of water loss significant, then estimates of variation in water yield or water requirement based solely on rainfall variance will be underestimates.

The results of such an investigation are given below.

Table I shows the mean annual evaporation and rainfall for six widely separated stations in England and Scotland together with their

variances, covariances, per cent standard deviations and correlation coefficients.

The data shown in Table I were calculated from values given in "British Rainfall" and include all the published long-term records, which include both rainfall and evaporation measured by the standard methods. Table I shows that the variance of annual rainfall was in all cases greater than that of evaporation. The variance of evaporation was linearly related to the mean annual evaporation and, taken with twice the covariance term, average 23 per cent of the total variance of the six stations. The percentage of variance caused by these two terms varied from 33 at Ormesby St. Michael with its high evaporation and low rainfall, to 19 at Talla Water with its low evaporation and high rainfall.

The correlation between evaporation and rainfall at Camden Square can be seen in Fig. I, and this also shows that the trends in annual evaporation can be related to the number of hours of sunshine. The relationship between annual evaporation (y) and annual total sun-hours (x) measured at Kew was $y = 0.0116x - 1.0208$ and the correlation coefficient was $+0.78$.

Although the variance of annual water yield can be calculated from the variance of annual rainfall and water loss, for other purposes seasonal or even monthly variances are required. The necessary data for calculating these values were immediately available for only one of the six stations listed in Table I—Camden Square, London, which almost certainly had the least satisfactory exposure. It appears however from Table I that the

Table I. Variance of Annual Evaporation and Rainfall and their Covariance

Stations	Camden Square, London	Otterbourne, Hants.	Ormesby St. Michael, Norfolk	Kennick, S. Devon	Harrogate, Yorks.	Talla Water, Peebles	Mean
Number of years ..	48	48	37	37	48	42	43
Mean annual evaporation—in. ..	16.25	19.79	17.05	18.17	19.45	13.81	17.42
Variance—in. ² ..	4.62	3.64	4.87	3.40	2.88	5.20	4.10
Standard deviation—per cent ..	13.2	9.7	12.9	10.2	8.7	16.5	11.9
Mean annual rainfall—in. ..	25.26	32.40	24.82	44.80	31.02	49.56	34.64
Variance—in. ² ..	18.73	26.87	16.93	49.83	25.15	42.43	29.99
Standard deviation—per cent ..	17.1	16.0	16.6	15.8	16.2	13.1	15.8
Covariance—in. ² ..	-4.95	-2.70	-1.65	-2.27	-1.45	-2.27	-2.54
Correlation coefficient	-0.53	-0.28	-0.18	-0.17	-0.17	-0.15	-0.25

variance at this station did not differ greatly from those at the other five listed and the poor exposure of the station is therefore probably not important in considering the variance.

Evaporation and rainfall records taken at Camden Square during the 71 years 1885–1955, were used to calculate the variance and covariance during the two six-monthly periods, April to September and October to March (Table II).

As expected, the year to year variation in both evaporation and rainfall was greater for the two six-monthly periods than for the yearly totals. The differences between summer and winter were not large; evaporation was more variable in winter, and rainfall in summer. The variance of soil moisture deficit during the summer period was double that to be expected from rainfall alone.

The same Camden Square records were used

**Table II. Variance of Seasonal Evaporation and Rainfall and their Covariance
Camden Square, London, 1885–1955**

SEASON	SUMMER April to September	WINTER October to March
Mean Seasonal Evaporation—in. ..	14.04	2.02
Variance—in. ² ..	4.29	0.17
Standard deviation—per cent ..	14.8	20.6
Mean Seasonal Rainfall—in. ..	12.12	12.72
Variance—in. ² ..	11.49	8.51
Standard deviation—per cent ..	28.0	22.9
Covariance—in. ² ..	-3.39	-0.39
Correlation coefficient ..	-0.48	-0.32

to calculate monthly values of evaporation and rainfall with their variance and covariance. (Table III.)

Although there was little difference in the variance of rainfall throughout the year, there was apparently a marked increase in the percentage standard deviation of evaporation during the mid-winter months. This was probably caused by difficulties of measurement during this period of low evaporation (Stanhill, 1958).

ber 1955. When evaporation exceeded rainfall (i.e., when there was a soil moisture deficit) the difference was added to the deficit at the end of the preceding month. When rainfall next exceeded evaporation, the excess rainfall was subtracted from the accumulated soil moisture deficit until this was zero. Subsequently any rainfall in excess of evaporation was regarded as drainage until the monthly amount of evaporation again exceeded rainfall.

Table III. Variance of Monthly Evaporation and Rainfall and their Covariance
Camden Square, London, 1885-1955

Month	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Mean
Mean Monthly Evaporation—in. ..	.09	.24	.73	1.54	2.50	3.07	3.10	2.40	1.43	.65	.24	.09	1.34
Variance—in. ² ..	.01	.01	.05	.16	.22	.30	.55	.35	.13	.04	.01	.01	.15
Standard deviation—per cent ..	135	49	31	26	19	18	24	25	25	30	45	103	44
Mean Monthly Rainfall—in. ...	2.06	1.68	1.74	1.75	1.81	1.92	2.35	2.30	1.99	2.48	2.49	2.28	2.07
Variance—in. ² ..	1.16	1.18	1.36	0.78	0.90	1.41	1.85	1.56	1.22	1.88	1.81	1.52	1.39
Standard deviation—per cent ..	52	65	67	50	52	62	58	54	56	55	54	54	57
Covariance—in. ² ..	-.03	-.05	-.15	-.22	-.22	-.27	-.45	-.33	-.12	-.09	-.01	-.03	-.16
Correlation coefficient ..	-.27	-.36	-.59	-.64	-.49	-.41	-.45	-.44	-.30	-.33	-.10	-.26	-.39

The variance of soil moisture deficit and drainage was calculated directly from the Camden Square records by the following method. The evaporation from the tank was taken as being equal to the water loss from soil covered with transpiring vegetation. There is much evidence that under similar weather conditions the two losses are linearly related (Penman, 1955), and some evidence that the losses are approximately equal (Stanhill, 1958a). Even if the two losses were not identical, the relative variance of one should be similar to that of the other because of their near proportionality. The difference between evaporation and rainfall was noted for each month from January 1885 to Decem-

ber 1955. When evaporation exceeded rainfall (i.e., when there was a soil moisture deficit) the difference was added to the deficit at the end of the preceding month. When rainfall next exceeded evaporation, the excess rainfall was subtracted from the accumulated soil moisture deficit until this was zero. Subsequently any rainfall in excess of evaporation was regarded as drainage until the monthly amount of evaporation again exceeded rainfall.

Fig. II shows the mean monthly values of deficit and drainage and the amount of their variance is shown by a vertical line of a length equal to twice the standard deviation. The variances were greatest in mid-summer and were least in early spring. The smallest deviation from the mean occurred in April, when drainage had ceased but before a soil moisture deficit had arisen. In contrast, when this same soil status occurred in early winter the deviation was large. This suggests that the end of April is the best time to use as a yearly datum point for hydrological purposes because soil moisture storage is then at its maximum stable value (field capacity) and the year to year variance is least. It is noticeable that the

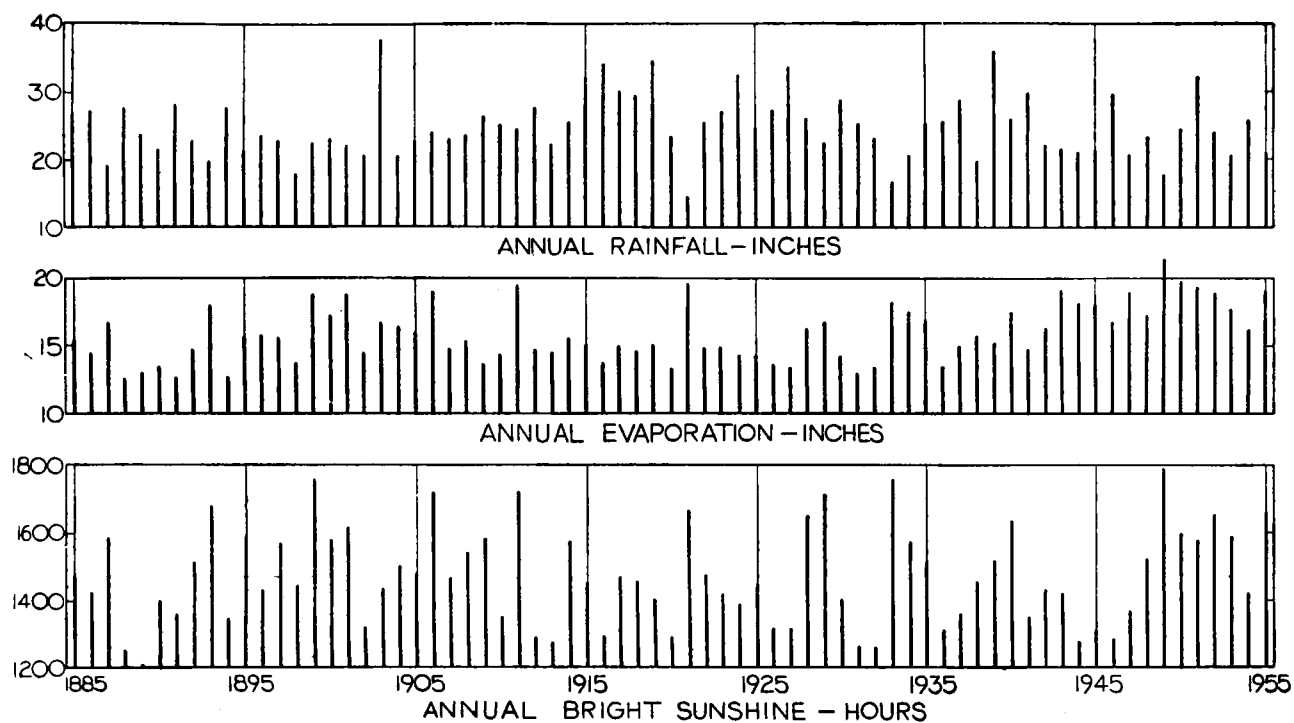


Fig. I. Annual rainfall, evaporation and sunshine, 1885-1955

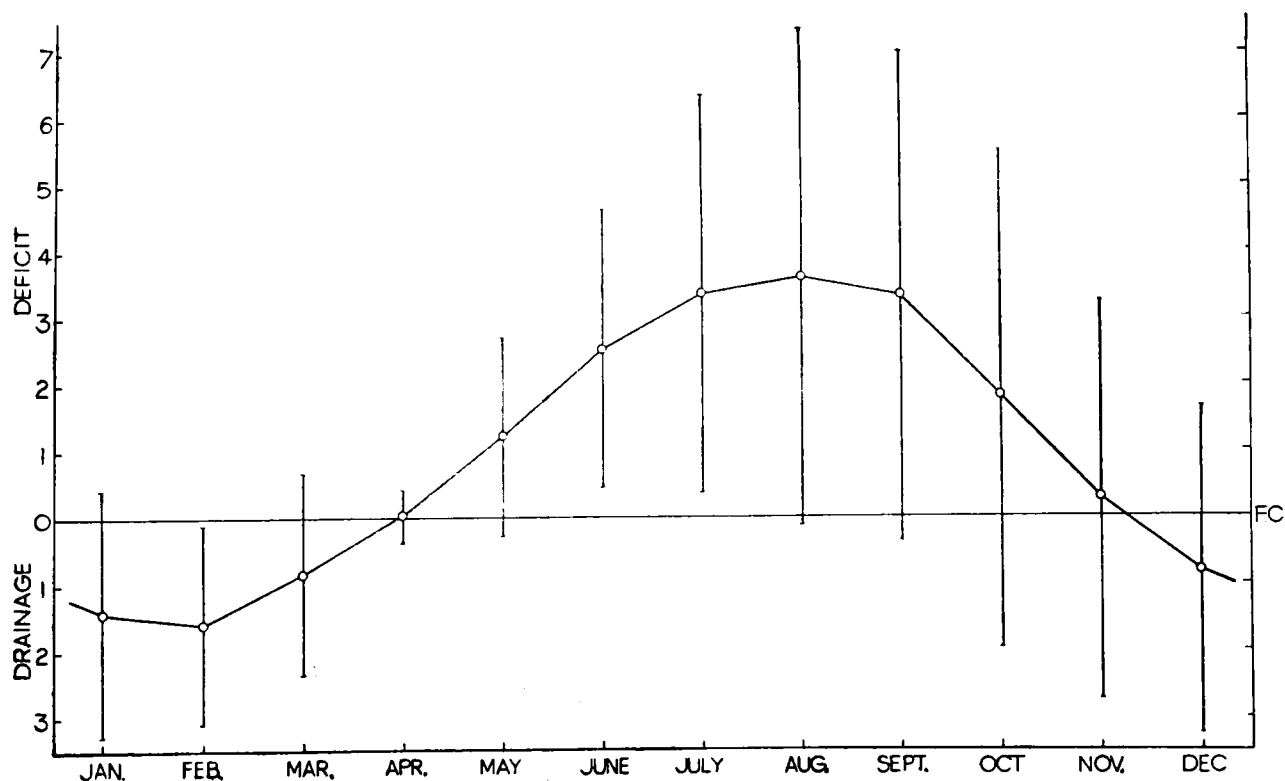


Fig. II. Estimated deficit in inches, Camden Square, 1885-1955

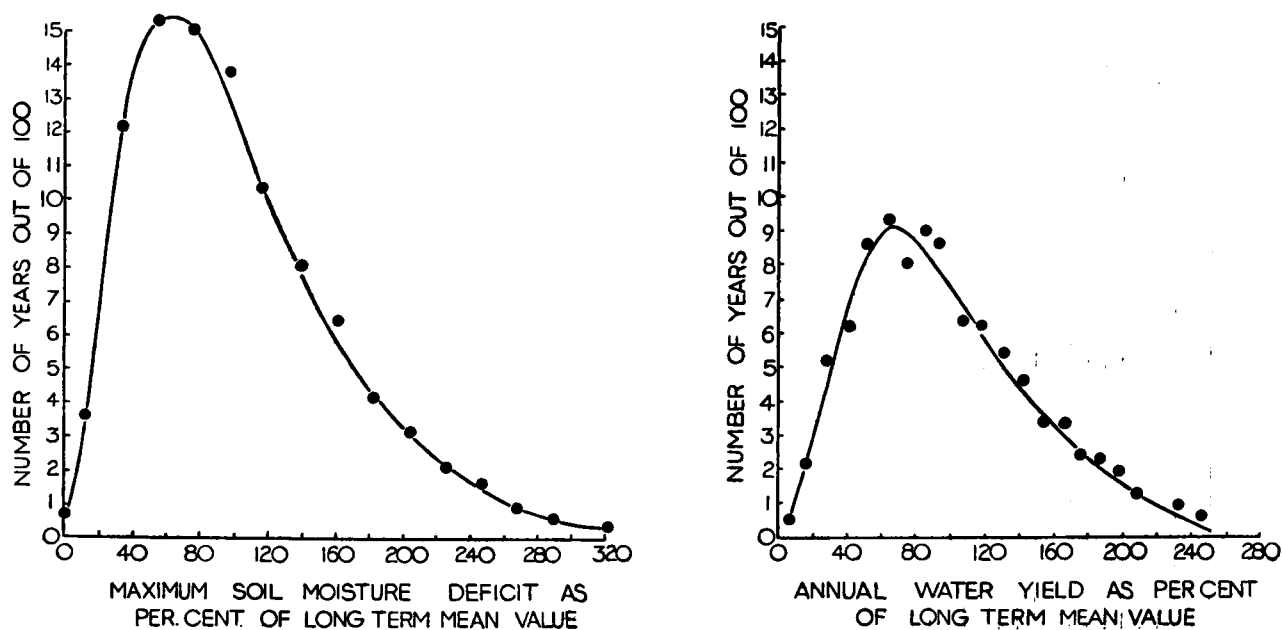


Fig. III. Maximum soil moisture deficit and annual water yield as per cent of long term mean values

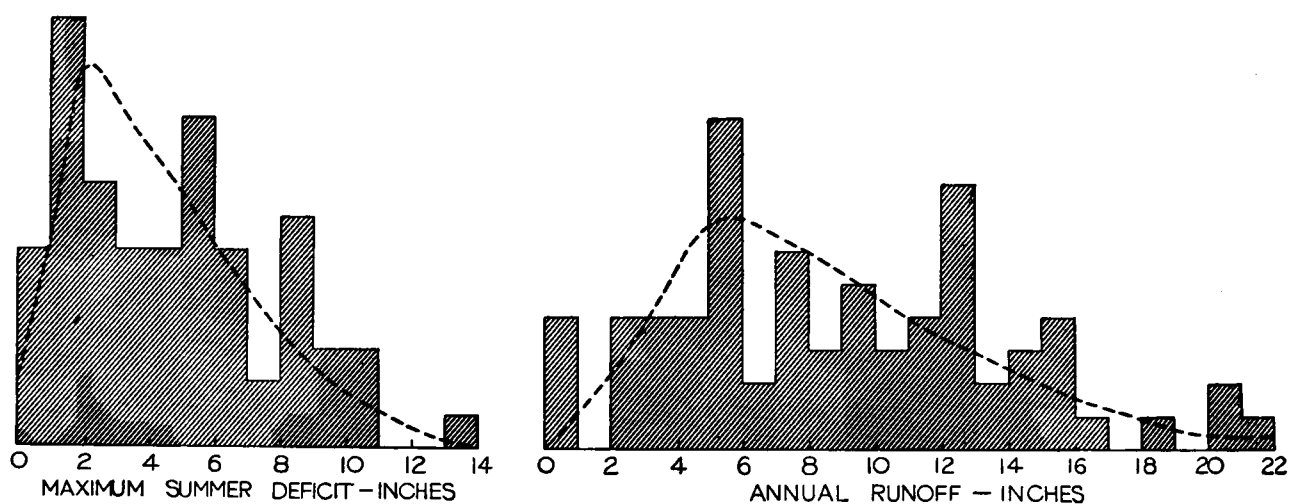


Fig. IV. Frequency distributions of calculated maximum summer deficit and annual run-off, Camden Square, 1885-1955

variances in Fig. II are much greater than those calculated from the individual monthly values shown in Table III. This is presumably because of a high positive serial correlation in the amount of rainfall and of evaporation in successive months.

The probability of the maximum soil moisture deficit and the annual water yield varying from their long-term mean by a given amount has been calculated from the Camden Square data by fitting gamma distributions to the 71 annual values of maximum moisture deficits and water yield (Fig. III). It can be seen from Fig. IV that the agreement between the fitted and actual values was not very close although in both cases the disagreements were not significant at the 10 per cent probability level.

One important point neglected in this method of calculating deficit and water yield is the possibility of the moisture-holding capacity of the root zone limiting the size of the deficit. In many areas the maximum calculated deficit will never be reached because of limitation in soil moisture available for evapo-transpiration. The limiting deficit will vary with the soil type and depth of the root zone, and the effect of such limitations will be to reduce somewhat the annual variation in both deficit and water yield.

SUMMARY

The variance of the annual amount of evaporation and its correlation with rainfall have been calculated from long-term records of six stations, and the effect of this variance and covariance on the variability of soil moisture deficit and water yield has been assessed.

The variances were also calculated for monthly and six-monthly periods, using 71 years' records from Camden Square. The monthly variance of soil moisture deficit and drainage was found to be considerably in excess of values expected using only rainfall variance, and the seasonal trend showed the variance in soil moisture storage to be markedly least in April.

The probability of the maximum annual soil moisture deficit and the total annual water yield varying from their long-term mean by given amounts has been calculated.

ACKNOWLEDGEMENTS

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