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HYDROLOGICAL MEMORANDUM No.10

**Rainfall over the area of the Trent River Board ,
1916—1950**

by

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Rainfall over the area of the Trent River Board 1916-1950



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Rainfall over the area of the Trent River Board 1916-1950

1. Rainfall, 1916-1950:

1.1 Introduction The estimation of standard-period averages for the months or for the year, is carried out in three stages; the selection of sound, homogeneous records complete for the 35 years, 1916-1950, which provide arithmetic means of monthly and annual rainfall, the basic values for all other work; the estimation of standard-period, monthly averages for stations in the second group, where these are needed for special purposes.

A detailed account of the methods developed and used in the Meteorological Office (M.O.3) to estimate standard-period averages from short-period records, is given in Hydrological Memoranda No. 5.

It is possible to process the data in a number of ways but the maps and tables are presented here in the simplest, most precise forms in order to be of use to a wide range of enquirers.

1.2 The Primary Survey, for Great Britain and Northern Ireland, of stations with complete records during 1916-1950, included some cases where the site had been changed to one with a better exposure and observations from both sites had been recorded for a few years. Attempts were made to amend the earlier readings by comparison of the data during a period of overlap, in order to have a set of values from 1916, to the date of the change, which would be representative of the 3 later, and better, record. But since the earlier exposures were usually unsatisfactory (being over-exposed or over-sheltered), the results were mostly erratic and the amended sets of values were not homogeneous. In a few cases, small breaks in a long record were completed by using estimated values, based on a nearby station, with or without the use of a modifying factor.

Of the many records examined, monthly and annual averages were accepted for 53 stations. The accepted values (in inches), together with the proportions (per cent) of each monthly average to the annual average, are given in Table I together with the altitude and the National Grid reference for each station. Most of these averages were included in H.M.S.O. publication, M.O. 635, "Averages of Rainfall for Great Britain and Northern Ireland, 1916-1950", some were omitted because other stations were so near.

The percentage proportion of monthly averages to the annual averages for the long-period stations were used to draw a series of twelve monthly maps from which it is possible to estimate the percentage of average annual rainfall, for any place, for each month of the year. These maps are shown as Figure 1. Values estimated for a few points between the isopercental lines have been added to give a clearer indication of the variations from place to place. The points chosen are not necessarily the same for each map.

1.3 The Secondary Survey of short-period stations was undertaken next, using records up to the time of the survey, usually into the late 1950's. Long-period stations, whose averages had been rejected from the Primary Survey because the record was not homogeneous, were examined again and averages were estimated for the later (and usually improved) part of the series of observations. Averages based on data for less than 5 years were not usually accepted for publication. A list of the accepted averages, for the short-period stations, is given in Table II together with the altitude and National Grid reference for each. The stations are listed in

an order based on natural drainage areas which will be used for the first time in British Rainfall, 1961.

These averages, together with the long-period averages listed in Table I, were plotted on Ordnance Survey Maps (scale 4 miles to the inch), and used to draw the lines of average annual rainfall, 1916-1950. The map is shown as Figure 2. The Secondary Survey is frequently revised for special areas using the most up-to-date observations for relatively new stations and the map is subject to revision from time to time. The redrawing of the isohyets usually results in greater detail and perhaps a clearer definition of a wet area as more and more observations become available from improved River Board networks of rain-gauges. Drastic changes are not expected. In Tables I, II and III with a few exceptions the average quoted are for records still being maintained in 1963.

1.4 Monthly Averages for a further group of stations were next estimated for use in the Monthly Weather Report and for enquiries. For the purpose some stations were chosen from those listed in Table II to supplement those listed in Table I. To find the monthly averages, the monthly proportions (per cent of annual average) were chosen from the equipercental maps (see Fig. 1) so that the total for the twelve months was 100. These monthly percentages were then used to apportion the annual average (in inches) amongst the months. The results are given in Table III.

1.5 Daily Rainfall, 1916-1950 Five of the initial 53 records which were accepted for the Primary Survey (1.2.) were analysed further. These records had regular daily entries, for the 24-hour period 0900 to 0900, for each of the 35 years, 1916-1950. Table IVa gives for each of the stations the 35-year totals for each day of the year (in inches for each of the stations. Table IVb gives $1/35$ of all possible totals from .17 in. to 24.67 in., thus providing a reduction table for the values in IVa to give average daily falls from "trace" to .70 in. For 29 February the reduction factor is, of course, $1/9$.

These daily averages can be re-grouped as 5-day means, 7-day means, consecutive or sliding means or in whatever form suits a specific requirement.

2. Frequencies of Daily Rainfall, 1916-1950 The same set of daily values used for Table IVa were re-grouped to give frequency tables with intervals of .01 inch. These have been re-arranged in Table V, to give accumulated frequencies with intervals of .10 in. up to 2.50 in. and a wider grouping above this.

3. Extremes of Rainfall The records for the 35-year period, 1916-1950, for the stations used in Tables IV and V were also used to find maximum and minimum values for the year and for each month and also maximum daily values for each month. These maxima and minima are given in Table VI and Table VII. Additional extremes are given in these tables to cover the 50-year period, 1911-1960.

Appendix I

Intense Falls Falls of 2 hours or less, which have been recorded in British Rainfall and rank as "noteworthy", "remarkable" or "very rare", are listed in Appendix I.

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TABLE I. Monthly and Annual averages of Rainfall, 1916-1950
Trent River Board Area

County	Station & N.G.R.	Alt. ft.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Year	Inch %
Staffs.	Hatton W.Wks. SJ(33)829370	355	3.18 10.0	2.31 7.3	1.97 6.2	2.09 6.6	2.27 7.2	1.94 6.1	3.07 9.7	2.98 9.4	2.60 8.2	3.27 10.3	3.14 9.9	2.87 9.1	31.69 100.0	Inch %
"	Stafford SJ(33)921229	247	2.87 9.6	2.14 7.2	1.89 6.3	1.98 6.6	2.32 7.8	2.04 6.9	2.93 9.8	2.77 9.3	2.43 8.2	2.94 9.9	2.86 9.6	2.62 8.8	29.79 100.0	Inch %
"	Milford W.Wks SJ(33)975212	246	2.74 9.5	2.12 7.3	1.84 6.3	1.95 6.7	2.24 7.7	1.94 6.7	2.92 10.1	2.80 9.7	2.35 8.1	2.86 9.9	2.72 9.4	2.49 8.6	28.97 100.0	Inch %
"	Rugeley, Brindley Bank SK(43)037195	254	2.65 9.7	1.99 7.3	1.71 6.3	1.87 6.9	2.08 7.6	1.82 6.7	2.79 10.2	2.52 9.3	2.17 8.0	2.65 9.7	2.60 9.5	2.40 8.8	27.25 100.0	Inch %
"	Meir SJ(33)941418	617	3.20 9.7	2.47 7.5	1.94 5.9	2.14 6.5	2.34 7.1	2.18 6.6	3.22 9.8	3.26 9.9	2.68 8.1	3.20 9.7	3.30 10.0	3.02 9.2	32.95 100.0	Inch %
Worcs.	Dudley Shavers End SO(32)933912	745	2.63 9.2	1.79 6.2	1.62 5.6	2.06 7.2	2.47 8.6	1.97 6.9	2.90 10.1	2.78 9.7	2.40 8.4	2.83 9.9	2.88 10.0	2.35 8.2	28.68 100.0	Inch %
Staffs.	West Bromwich SP(42)011915	543	2.69 9.4	1.99 7.0	1.70 6.0	2.20 7.4	2.43 8.5	1.84 6.4	2.78 9.7	2.65 9.3	2.33 8.2	2.70 9.5	2.87 10.1	2.43 8.5	28.51 100.0	Inch %
Warws.	Frankley SF(42)008801	571	3.14 9.7	2.27 7.0	2.01 6.2	2.44 7.6	2.60 8.1	2.01 6.2	3.08 9.6	2.92 9.1	2.60 8.1	3.08 9.6	3.18 9.9	2.88 8.9	32.21 100.0	Inch %
"	Sutton Coldfield SP(42)116964	370	2.69 9.5	2.04 7.2	1.76 6.2	2.12 7.5	2.29 8.1	1.81 6.4	2.63 9.3	2.65 9.4	2.24 8.0	2.72 9.7	2.82 10.0	2.45 8.7	28.22 100.0	Inch %
"	Minworth Greaves SP(42)165923	258	2.37 9.2	1.84 7.2	1.60 6.2	1.94 7.5	2.19 8.5	1.76 6.8	2.55 9.3	2.46 9.6	2.09 8.1	2.40 9.3	2.45 9.5	2.11 8.2	25.76 100.0	Inch %
Staffs.	Cannock Res. SK(43)040074	475	2.64 9.3	1.92 6.7	1.74 6.1	2.07 7.3	2.35 8.2	1.95 6.8	2.77 9.7	2.84 10.0	2.32 8.1	2.70 9.5	2.84 10.0	2.38 8.3	28.52 100.0	Inch %
"	Shobnall SK(43)234231	157	2.36 9.2	1.89 7.4	1.58 6.2	1.79 7.0	2.08 8.2	1.60 6.3	2.55 10.0	2.58 10.1	2.05 8.0	2.38 9.3	2.48 9.7	2.19 8.6	25.53 100.0	Inch %
"	Leek SJ(33)998571	680	3.67 9.7	2.85 7.5	2.16 5.7	2.52 6.6	2.67 7.0	2.67 7.0	3.66 9.6	3.53 9.3	3.25 8.6	3.74 9.8	3.84 10.1	3.47 9.1	38.03 100.0	Inch %

TABLE I. Monthly and Annual Averages of Rainfall, 1916-1950
Trent River Board Area Continued

County	Station & N.G.R.	Alt. ft.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Year	Inch %
Derby	Blakeley Lodge SK(43)268304	189	2.41 9.3	1.83 7.1	1.53 5.9	1.74 6.7	2.10 8.1	1.68 6.5	2.73 10.5	2.56 9.9	2.09 8.1	2.51 9.7	2.49 9.6	2.22 8.6	25.89 100.0	Inch %
"	Mickleover Hosp. SK(43)297332	320	2.44 9.2	1.96 7.4	1.65 6.2	1.88 7.0	2.07 7.8	1.70 6.4	2.63 9.9	2.70 10.1	2.18 8.2	2.58 9.7	2.56 9.6	2.27 8.5	26.62 130.0	Inch %
"	Broadhead Clough SK(43)169962	1010	6.24 11.3	4.95 8.9	3.75 6.8	3.85 6.9	3.43 6.2	3.04 5.5	4.05 7.3	4.46 8.1	4.25 7.7	5.73 10.3	6.19 11.2	5.41 9.8	55.35 100.0	Inch %
"	Slippery Stone SK(43)169951	908	6.04 11.5	4.66 8.8	3.43 6.5	3.66 6.9	3.20 6.1	2.93 5.6	3.88 7.4	4.14 7.9	4.04 7.7	5.49 10.4	6.02 11.4	5.18 9.8	52.67 100.0	Inch %
"	Blacklow Cote SK(43)145936	970	6.24 11.3	4.80 8.7	3.57 6.5	3.73 6.7	3.28 5.9	3.31 6.0	4.26 7.7	4.56 8.3	4.25 7.7	5.72 10.4	6.09 11.0	5.43 9.8	55.24 100.0	Inch %
"	Howden Dam SK(43)168924	845	5.75 11.4	4.38 8.6	3.24 6.4	3.53 7.0	3.10 6.1	2.95 5.8	3.79 7.5	4.00 7.9	3.93 7.8	5.23 10.3	5.66 11.2	5.05 10.0	50.61 100.0	Inch %
"	Birchinlee SK(43)165918	890	6.12 11.6	4.63 8.7	3.38 6.4	3.69 7.0	3.18 6.0	3.01 5.7	3.98 7.5	4.12 7.8	4.07 7.7	5.50 10.4	5.89 11.1	5.32 10.1	52.89 100.0	Inch %
"	Killhill Bridge SK(43)171838	560	4.66 11.2	3.70 8.9	2.72 6.6	2.96 7.1	2.56 6.2	2.45 5.9	3.16 7.6	3.17 7.6	3.17 7.6	4.14 10.0	4.51 10.9	4.33 10.4	41.53 100.0	Inch %
"	Bamford SK(43)202829	509	4.41 11.1	3.42 8.6	2.52 6.3	2.80 7.0	2.53 6.4	2.30 5.8	3.10 7.8	3.19 8.0	3.08 7.7	4.06 10.2	4.32 10.9	4.06 10.2	39.79 100.0	Inch %
"	Buxton SK(43)059738	1007	5.49 11.3	3.96 8.2	2.88 5.9	3.34 6.9	2.89 6.0	3.17 6.5	3.90 8.0	4.14 8.5	3.94 8.1	4.98 10.3	4.98 10.3	4.83 10.0	48.50 100.0	Inch %
"	Whitstandvelli SK(43)325555	245	3.61 10.7	2.78 8.3	2.17 6.4	2.34 6.9	2.26 6.7	1.99 5.9	2.99 8.9	3.01 8.9	2.61 7.7	3.32 9.6	3.44 10.2	3.25 9.6	33.77 100.0	Inch %
"	Press Res. SK(43)354657	810	3.22 9.8	2.41 7.4	2.05 6.3	2.27 6.9	2.53 7.7	2.05 6.3	2.89 8.8	3.03 9.3	2.57 7.8	3.20 9.8	3.54 10.8	2.97 9.1	32.11 100.0	Inch %
"	Brackenfield SK(43)357584	595	3.53 10.6	2.63 7.9	2.13 6.4	2.28 6.9	2.37 7.1	1.96 5.9	2.98 9.0	2.97 9.0	2.59 7.8	3.21 9.7	3.40 10.3	3.10 9.4	33.15 100.0	Inch %

TABLE I. Monthly and Annual Averages of Rainfall, 1916-1950
Trent River Board Area Continued

County	Station & N.G.R.	Alt. ft.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Year	Inch %
Derbys.	Derby Royal Infirmary SK(43)357355	211	2.81 9.8	2.11 7.3	1.79 6.2	2.02 7.0	2.32 8.1	1.83 6.4	2.80 9.7	2.78 9.7	2.42 8.4	2.72 9.4	2.77 9.6	2.43 8.4	28.80 100.0	Inch %
Leics.	Wistow Hall SP(42)642957	310	2.33 9.1	1.77 6.9	1.60 6.3	1.96 7.7	2.02 7.9	1.81 7.1	2.57 10.1	2.45 9.6	2.07 8.1	2.30 9.0	2.51 9.9	2.11 8.3	25.50 100.0	Inch %
"	Leicester, De Montfort Sq. SK(43)593037	250	2.19 9.1	1.70 7.1	1.47 6.1	1.82 7.5	1.99 8.3	1.65 6.8	2.41 10.0	2.49 10.3	1.96 8.1	2.27 9.4	2.27 9.4	1.90 7.9	24.12 100.0	Inch %
"	Leicester Gilroes Cemetery SK(43)562064	294	2.48 9.2	1.96 7.3	1.69 6.3	2.03 7.6	2.19 8.1	1.78 6.6	2.70 10.0	2.62 9.7	2.15 8.0	2.50 9.3	2.57 9.6	2.23 8.3	26.90 100.0	Inch %
"	Leicester Towers SK(43)623042	267	2.37 9.0	1.77 6.7	1.59 6.0	2.00 7.6	2.16 8.2	1.83 6.9	2.66 10.1	2.65 10.0	2.19 8.3	2.52 9.6	2.48 9.4	2.17 8.2	26.39 100.0	Inch %
"	Waltham-on-the-Wolds SK(43)804252	570	2.29 9.0	1.95 7.6	1.60 6.3	1.89 7.4	2.06 8.1	1.64 6.4	2.85 11.2	2.40 9.4	2.08 8.2	2.25 8.8	2.34 9.2	2.14 8.4	25.49 100.0	Inch %
"	Melton Mowbray, White Lodge SK(43)756187	237	2.27 9.1	1.83 7.3	1.52 6.1	1.91 7.6	1.97 7.9	1.66 6.6	2.58 10.3	2.37 9.5	2.04 8.2	2.32 9.3	2.45 9.8	2.06 8.3	24.98 100.0	Inch %
"	Barkby Hall SK(43)637098	227	2.36 9.0	1.80 6.8	1.62 6.2	2.02 7.7	2.17 8.2	1.81 6.9	2.78 10.6	2.65 10.1	2.19 8.3	2.42 9.2	2.42 9.2	2.06 7.8	26.30 100.0	Inch %
"	Thornton Res. SK(43)473072	369	2.66 9.4	2.10 7.4	1.85 6.5	2.18 7.7	2.28 8.0	1.81 6.4	2.73 9.6	2.62 9.2	2.32 8.2	2.68 9.4	2.76 9.7	2.42 8.5	28.41 100.0	Inch %
"	Swithland Res. SK(43)556148	171	2.68 9.6	2.03 7.2	1.77 6.3	2.10 7.5	2.35 8.4	1.80 6.4	2.68 9.6	2.65 9.4	2.18 7.8	2.68 9.6	2.76 9.8	2.36 8.4	28.04 100.0	Inch %
"	Prestwold Hall SK(43)579215	209	2.42 9.2	1.91 7.2	1.66 6.3	1.89 7.2	2.15 8.1	1.66 6.3	2.81 10.7	2.51 9.5	2.05 7.8	2.45 9.3	2.67 10.1	2.20 8.3	26.39 100.0	Inch %
"	Nanpantan Res. SK(43)508171	269	2.72 9.7	2.05 7.3	1.79 6.4	2.08 7.4	2.28 8.1	1.80 6.4	2.76 9.8	2.68 9.5	2.16 7.7	2.65 9.4	2.76 9.8	2.40 8.5	28.13 100.0	Inch %
Derby	Codnor Park SK(43)442517	243	3.07 10.0	2.36 7.7	1.93 6.3	2.09 6.9	2.30 7.5	1.92 6.3	2.89 9.5	2.69 8.8	2.54 8.3	2.92 9.6	3.07 10.0	2.77 9.1	30.55 100.0	Inch %
Notts	Papplewick P. Sta. SK(43)583521	317	2.72 9.9	2.02 7.4	1.79 6.5	1.97 7.2	2.15 7.8	1.68 6.1	2.65 9.6	2.62 9.5	2.17 7.9	2.56 9.3	2.78 10.1	2.40 8.7	27.51 100.0	Inch %

TABLE I. Monthly and Annual Averages of Rainfall, 1916-1950
Trent River Board Area Continued

County	Station & N.G.R.	Alt. Ft.	Jan	Feb	Mar	Apr	May	June	Jly	Aug	Sep	Oct	Nov	Dec	Year	Inch %
Not'se	Bullwell Hall SK(43)532468	252	2.74 10.1	2.05 7.5	1.73 6.3	1.93 7.1	2.08 7.6	1.72 6.3	2.58 9.5	2.56 9.4	2.19 8.0	2.54 9.3	2.74 10.1	2.40 8.8	27.26 100.0	Inch %
"	Basford W. Wks SK(43)565429	168	2.45 9.6	1.88 7.4	1.58 6.2	1.86 7.3	2.05 8.1	1.55 6.1	2.58 10.1	2.51 9.9	2.01 7.9	2.34 9.2	2.46 9.7	2.16 8.5	25.43 100.0	Inch %
"	Nottingham SK(43)568395	192	2.28 9.4	1.76 7.3	1.47 6.1	1.79 7.4	1.98 8.2	1.47 6.1	2.52 10.4	2.37 9.8	1.98 8.2	2.24 9.2	2.30 9.5	2.03 8.4	24.19 100.0	Inch %
"	Ramsdale Hill Res. SK(43)596843	503	2.56 9.3	1.98 7.2	1.68 6.1	1.94 7.1	2.23 8.1	1.73 6.3	2.78 10.1	2.71 9.9	2.21 8.0	2.59 9.4	2.72 9.9	2.37 8.6	27.50 100.0	Inch %
Lincs.	Gate Burton SK(43)838831	97	2.12 9.1	1.66 7.1	1.43 6.1	1.60 6.8	1.84 7.9	1.72 7.3	2.40 10.2	2.23 9.5	1.90 8.1	2.19 9.4	2.31 9.9	2.01 8.6	23.41 100.0	Inch %
Not's.	Sutton-in-Ashfield SK(43)510595	455	2.82 9.7	2.14 7.4	1.85 6.4	2.08 7.2	2.25 7.8	1.75 6.1	2.79 9.6	2.57 8.9	2.25 7.8	2.84 9.8	2.99 10.3	2.61 9.0	28.94 100.0	Inch %
"	Clipstone W. Wks SK(43)603643	228	2.39 9.3	1.91 7.5	1.65 6.5	1.84 7.2	2.00 7.8	1.47 5.7	2.52 9.9	2.38 9.3	2.01 7.9	2.47 9.7	2.65 10.4	2.26 8.8	25.55 100.0	Inch %
"	Rainworth W. Wks SK(43)587586	349	2.62 9.7	2.01 7.4	1.70 6.3	1.93 7.1	2.08 7.7	1.61 5.9	2.61 9.6	2.60 9.6	2.18 8.0	2.60 9.6	2.76 10.2	2.42 8.9	27.12 100.0	Inch %
"	Doughton P. Sta. SK(43)667692	141	2.33 9.4	1.83 7.4	1.56 6.3	1.70 6.9	2.02 8.1	1.58 6.4	2.33 9.4	2.42 9.8	1.93 7.8	2.34 9.4	2.58 10.4	2.17 8.7	24.79 100.0	Inch %
"	Elkesley P. Sta. SK(43)664760	120	2.15 8.9	1.80 7.4	1.56 6.4	1.69 7.0	2.03 8.4	1.62 6.7	2.29 9.4	2.45 10.1	1.89 7.8	2.29 9.4	2.43 10.0	2.05 8.5	24.25 100.0	Inch %
"	Wigthorpe Hill SK(43)594835	100	2.21 9.1	1.80 7.4	1.56 6.4	1.70 7.0	1.91 7.9	1.71 7.1	2.27 9.4	2.44 10.1	1.95 8.0	2.28 9.4	2.36 9.7	2.05 8.5	24.24 100.0	Inch %
Lincs.	Crowle P. Sta. SK(44)755108	10	2.11 8.9	1.69 7.2	1.44 6.1	1.57 6.6	1.96 8.3	1.76 7.5	2.33 9.9	2.46 10.4	1.89 8.0	2.17 9.2	2.24 9.5	1.98 8.4	23.26 100.0	Inch %
Derbys	Swineshaw SK(43)045958	733	4.58 10.5	3.63 8.3	2.75 6.3	2.82 6.4	2.92 6.7	3.04 6.9	3.84 8.8	3.82 8.7	3.53 8.1	4.35 9.9	4.53 10.3	4.00 9.1	43.81 100.0	Inch %

TABLE II Estimated Annual Averages of Rainfall, 1916-1950, for
Short-period stations.
Trent River Board Area

County	Station	N.G.R.	Alt. (ft.)	Av. (in)
Staffs.	Hanley S. Wks.	SJ(33)886461	386	30.89
"	Etruria	SJ(33)875470	423	33.02
"	Keele	SJ(33)820446	587	31.59
"	Yarlet Hall	SJ(33)913293	402	29.96
"	Codsall	SJ(33)870028	410	29.14
"	Slade Heath P. Sta.	SJ(33)917071	340	27.81
"	Gt. Wyrley	SJ(33)991076	420	28.74
"	Pye Green	SJ(33)989143	768	30.47
"	Bilvide Res.	SJ(33)861105	367	29.85
"	Slitting Mill	SK(43)033173	299	29.05
"	Wallmires P. Sta.	SJ(33)950463	761	34.88
"	Hulme	SJ(33)934454	710	33.10
"	Crosswell P. Sta.	SJ(33)974394	538	34.53
"	Middleton Green	SJ(33)995354	597	32.70
"	Fradswell	SK(43)007334	450	31.21
"	Gratwich	SK(43)040315	381	30.53
"	Booth	SK(43)042272	360	29.19
"	Kingston	SK(43)063295	420	29.18
"	Blithfield	SK(43)071226	273	28.67
"	Port Fields	SK(43)067237	316	28.54
"	Hamstall, Ridware No. 2	SK(43)103193	240	26.27
"	Gentleshaw	SK(43)099123	744	31.28
"	Hanch Res.	SK(43)103136	259	26.92
"	Alrewas	SK(43)168148	200	26.09
"	Darlaston S. Wks.	SO(32)985978	393	26.43
"	Bilston, The Lunt Outfall	SO(32)963958	410	27.72
Worcs.	Dudley, Tipton	SO(32)950916	490	27.89
"	Oldbury, Bamford Hill Park	SO(32)997876	607	30.84
Staffs.	Tividale S. Wks.	SO(32)973910	432	29.07
"	Toll End, S. Wks.	SO(32)978931	400	28.29
"	Brownhills, Coombe House	SK(43)038058	491	28.58
"	Goscote S. Wks.	SK(43)015025	435	28.43
"	Bescot S. Wks.	SP(42)007966	387	28.31
Warws.	Handsworth, Howard Road	SP(42)059909	368	29.70
"	Edgbaston	SP(42)046864	536	30.70
"	Handsworth, Vistoria Road	SP(42)042892	469	29.35
"	Handsworth Park	SP(42)048900	424	29.67
"	Erdington	SP(42)102917	442	28.63
"	Bartley Res.	SP(42)010812	600	32.78
"	Bromwich Wood	SO(32)999810	611	32.90
"	Birmingham, K. Edward's School	SP(42)051836	450	30.28
"	Saltley S. Wks.	SP(42)105888	292	28.17
"	Erdington, Spring Lane	SP(42)113911	386	28.52
"	Perry Bar Res.	SP(42)084953	515	28.98
"	Coleshill	SP(42)195913	238	25.53
"	Solehull, Station Road	SP(42)148796	424	29.67
"	Balsall Common	SP(42)235769	385	28.10
"	Hampton-in-Arden	SP(42)197791	500	29.48
"	Highters Heath Res.	SP(42)087793	517	29.98
"	Stechford	SP(42)135886	302	27.65
"	Elmdon	SP(42)171837	319	26.76
"	Whiteacre W. Wks.	SP(42)227909	269	26.48
Staffs.	Sandhills	SK(43)067048	407	28.44
"	Little Hay	SK(43)123030	298	27.79
Leics.	Hinckley, Bowling Green Road	SP(42)434941	400	27.55
Warws.	Nuneaton P. Sta.	SP(42)361923	269	26.00
"	Hartshill	SP(42)325952	304	27.97

TABLE II Estimated Annual Averages of Rainfall, 1916-1950, for
Short-period stations.
Trent River Board Area (Continued)

County	Station	N.G.R.	Alt. (ft.)	Av. (in)
Leics.	Osbaston Hall	SK(43)425045	390	27.87
Staffs.	Tamworth S. Wks.	SK(43)200041	182	25.55
Derbys.	Church Gresley, Maurice Lee Pk.	SK(43)305189	400	25.95
Staffs	Outwoods	SK(43)227240	310	27.27
"	Outwoods Hospital	SK(43)232248	220	26.94
"	Leek, Mermaid Inn	SK(43)038608	1471	45.47
"	Onecote	SK(43)035576	1350	42.14
"	Ellastone Vicarage	SK(43)117434	410	33.70
"	Middle Hills	SK(43)030639	1840	45.51
"	Luek, The Hollies	SK(43)005602	694	39.48
"	Alder Lee	SJ(33)989606	685	37.99
"	Lower Haddon	SJ(33)476606	875	38.56
"	Tittesworth	SJ(33)990589	657	37.92
"	Dilhorne	SJ(33)968470	919	35.10
"	Hardwick Farm	SJ(33)956442	810	32.49
"	Uttoxeter	SK(43)089340	295	30.60
Derbys.	Rodsley P. Sta.	SK(43)194401	415	31.27
"	Etwall S. Wks.	SK(43)274298	201	26.72
"	Repton	SK(43)302267	230	25.44
"	Stanton-by-Bridge W.Wks.	SK(43)375272	144	26.57
"	Barrow Clough	SK(43)142976	1330	62.49
Yorks W.R.	Sandy Lee	SK(43)180953	1320	56.40
Derbys.	Ronksley Moor	SK(43)147951	1660	62.18
"	Deep Grain	SK(43)123951	1360	61.81
"	Ridge Farm	SK(43)161931	883	55.49
Yorks W.R.	Howden Clough No. 64A	SK(43)177936	1010	49.91
"	Howden Dean	SK(43)185926	960	51.02
Derbys.	Ouzleden Clough	SK(43)160907	885	53.55
"	Fairholmes	SK(43)173893	685	50.67
"	Mill Brook	SK(43)188894	770	48.61
"	Crook Hill	SK(43)185870	1100	47.53
"	Sandy Heys	SK(43)075894	2040	58.89
"	Nether Red Clough	SK(43)084903	1370	61.13
"	Middle Seal Clough	SK(43)111897	1320	64.37
"	Blackdean Brook	SK(43)127890	1070	62.99
"	Ashop Weir	SK(43)140895	795	57.64
"	Alport Moor	SK(43)106943	1790	66.62
"	Hogg Farm	SK(43)160885	700	50.97
"	Grimbocar	SK(43)172872	700	50.04
"	Ladybower	SK(43)205869	985	45.91
"	Yorkshire Bridge Weir	SK(43)198850	560	41.31
"	Bamford Filters	SK(43)212830	660	40.17
"	Jacob's Ladder	SK(43)090860	1115	59.84
"	Upper Booth	SK(43)104854	950	49.87
"	Dalehead	SK(43)101841	1030	52.58
"	Mam Nick	SK(43)123837	1368	49.49
"	Grindslow	SK(43)119867	940	55.57
"	Edale Mill	SK(43)134854	725	49.97
"	Nether Moor	SK(43)143875	1460	55.89
"	Edale End	SK(43)162863	632	45.15
"	Moss Rake Head	SK(43)144799	1435	47.00
"	Bradwell	SK(43)162811	1060	45.11
Yorks W.R.	Higger Lodge	SK(43)273816	1225	38.02
"	Parsons House	SK(43)271810	1307	37.30
Derbys.	Lower Eurbage	SK(43)258802	924	37.15
"	Chatsworth Gardens	SK(43)262701	436	32.60
"	Portc bello Bar	SK(43)032712	1606	54.87
"	Eurbage Edge	SK(43)035728	1400	54.92

TABLE II Estimated Annual Averages of Rainfall, 1916-1950, for
Short-period stations.
Trent River Board Area (Continued)

County	Station	N.G.R.	A.H. (ft.)	Av. (in)
Derbys.	Stanley Moor	SK(43)041712	1340	53.26
"	Ashwood Dale S. Wks.	SK(43)072728	917	48.39
"	Green Fairfield	SK(43)007747	1120	45.36
"	Rushup Edge	SK(43)103824	1245	49.58
"	Eldon Hill	SK(43)121806	1350	46.36
"	Peak Forest	SK(43)111792	1050	44.63
"	Wheston	SK(43)129768	1140	42.14
"	Hargate Hall	SK(43)117752	1140	44.01
"	Whiterake	SK(43)143781	1220	43.61
"	Tideswell	SK(43)149752	1000	40.31
"	Ambergate Res.	SK(43)350526	646	34.54
"	Belper	SK(43)346468	203	28.79
"	Wirksworth, Wash Green	SK(43)295538	738	33.57
"	Wirksworth	SK(43)285538	560	35.45
"	Morley	SK(43)385401	350	29.46
"	Breadsall Priory	SK(43)381414	370	28.44
"	Markeaton Park	SK(43)331377	190	28.74
"	Derby S. Wks.	SK(43)389351	135	26.22
Leics.	Frolesworth	SP(42)506903	370	25.59
"	Wigston S. Wks.	SP(42)597968	257	24.98
"	Leicester, Arnsdale Road	SK(43)564040	200	25.22
"	Leicester, Stoughton Drive, N.	SK(43)609031	240	25.53
"	Scalford	SK(43)764241	343	27.30
"	Lowesby Hall	SK(43)723076	517	26.42
"	Ulverscroft	SK(43)496118	640	30.57
"	Cropston Res.	SK(43)549114	245	28.85
"	Loughborough	SK(43)520180	210	26.21
"	Loughborough S. Wks.	SK(43)529209	135	26.78
"	Blackbrook Res.	SK(43)457178	379	27.91
Notts.	Kingston Hall	SK(43)508277	130	25.76
"	Sutton Bonington	SK(43)503262	157	22.95
"	Moorgreen Res.	SK(43)468474	301	28.29
"	Eastwood Hall	SK(43)462477	240	27.84
"	Ilkeston S. Wks.	SK(43)482395	133	25.75
Derbys.	New Stanton	SK(43)475386	150	25.29
"	Breaston, Woodland Ave.	SK(43)469336	115	25.21
Notts.	Brancote Res.	SK(43)507375	327	25.39
"	Beeston Lab.	SK(43)542364	85	25.22
"	Lenton	SK(43)573381	160	24.83
"	Watnall	SK(43)506454	366	27.22
"	Woodthorpe	SK(43)580440	225	26.46
"	Sneinton P. Sta.	SK(43)592393	83	23.96
"	Colwick Hill Res.	SK(43)596399	314	24.18
"	West Bridgford	SK(43)592372	80	24.28
"	Colwick	SK(43)617341	70	23.58
"	Stoke Bardolph	SK(43)647416	66	24.08
"	Blidworth	SK(43)563554	400	28.52
"	Southwell	SK(43)697542	125	26.38
"	Kelham	SK(43)780550	40	22.32
Leics.	Whitmore P. Sta.	SJ(33)799400	396	30.47
Notts.	Newark, The Friary	SK(43)802540	48	24.03
Lincs.	Torksey	SK(43)836780	16	22.94
Notts.	Mansfield	SK(43)543618	362	27.48
"	Edwinstowe	SK(43)524671	215	25.21
"	Rushley P. Sta.	SK(43)547578	425	29.45
"	Rufford P. Sta.	SK(43)632611	275	26.11
"	Lound Hall	SK(43)700731	50	24.54

TABLE II Estimated Annual Averages of Rainfall, 1916-1950, for
Short-period stations.
Trent River Board Area (Continued)

County	Station	N.G.R.	Alt. (ft.)	Av. (in)
"	Warsop	SK(43)591699	150	23.10
Derbys.	Whaley Well	SK(43)509718	337	25.74
Notts	Babworth Hall	SK(43)687811	98	23.09
"	Sunnyside W. Wks.	SK(43)589806	245	24.77
"	Bracebridge S. Wks.	SK(43)597790	97	24.82
"	Osberton Hall	SK(43)629798	85	25.35
"	Finningley	SK(43)658995	34	22.27
Yorks W.R.	Austerfield P. Sta.	SK(43)661962	32	22.97
Lincs.	West Butterwick	SE(44)835065	20	24.73
Yorks W.R.	Tickhill, Dodsley Road	SK(43)891935	60	24.13
"	Rossington Colliery	SK(43)602984	22	24.09
"	Balby S. Wks.	SE(44)569010	29	23.47
"	Low Pasture P. Sta.	SE(44)589022	-24	23.44
Lincs.	Wroot P. Sta.	SE(44)732017	7	22.88
"	Keadby P. Sta.	SE(44)835112	20	24.60

TABLE III. Monthly Averages of Rainfall (in. inches) 1916-1950, estimated from
Short-period stations
Trent River Board Area

County	Station	Jan	Feb	Mar	Apr	May	June	Jly	Aug	Sep	Oct	Nov	Dec	Year
Staffs.	Keele	2.97	2.24	1.86	2.02	2.40	2.09	3.03	3.06	2.69	3.22	3.10	2.91	31.59
Warws.	Edgbaston	2.98	2.21	1.87	2.30	2.58	1.90	2.86	2.76	2.49	2.89	3.16	2.70	30.70
"	Elmdon	2.51	1.90	1.69	1.98	2.22	1.66	2.60	2.43	2.17	2.51	2.68	2.41	26.76
Derbys.	Belper	2.82	2.22	1.81	1.96	2.22	1.81	2.74	2.65	2.39	2.73	2.94	2.50	28.79
"	Marley	2.33	2.03	2.15	1.89	2.21	2.42	2.68	3.01	1.97	3.12	2.56	3.09	29.46
Notts	Sutton Bonington	2.18	1.68	1.42	1.68	1.86	1.45	2.36	2.20	1.86	2.13	2.20	1.93	22.95
"	Watnall	2.69	2.01	1.72	1.93	2.07	1.72	2.72	2.59	2.23	2.53	2.67	2.34	27.22
"	Mansfield	2.66	2.03	1.76	1.98	2.14	1.65	2.67	2.50	2.14	2.67	2.83	2.45	27.48
"	Warsop	2.13	1.71	1.48	1.59	1.80	1.50	2.22	2.26	1.80	2.20	2.40	2.01	23.10

TABLE IVa 35-Year Totals of Daily Rainfall, 1916-1950 (in inches)

* Swineshaw

Day	Jan	Feb	Mar	Apr	May	June	Jly	Aug	Sep	Oct	Nov	Dec
1	8.17	6.34	2.93	4.03	2.12	4.17	2.79	3.78	6.67	2.74	6.39	6.01
2	6.34	6.25	2.88	5.08	1.80	4.70	2.33	4.30	4.16	2.67	3.74	5.00
3	4.68	5.06	2.38	3.14	2.06	3.76	4.00	3.04	4.91	4.05	4.62	5.82
4	5.07	4.94	3.74	4.32	3.23	2.16	4.15	3.69	4.24	4.75	3.83	7.96
5	5.64	4.49	2.77	3.08	4.13	3.42	3.61	4.16	2.57	5.05	4.84	5.10
6	6.93	6.24	2.58	4.07	4.17	3.18	3.60	4.97	3.37	4.28	4.04	4.11
7	5.13	5.38	4.30	2.68	3.07	4.24	3.62	7.63	5.34	4.98	6.08	4.82
8	4.68	5.69	3.77	3.06	1.79	3.14	3.46	4.15	2.88	5.80	3.89	4.70
9	6.47	8.22	2.99	4.10	2.30	2.73	5.16	4.38	2.90	7.90	7.81	3.86
10	4.68	4.18	3.54	2.55	3.59	2.00	4.84	4.30	3.11	6.15	3.99	4.07
11	6.76	4.46	2.73	2.46	2.90	2.04	5.08	5.32	3.06	3.58	9.41	2.83
12	5.71	3.73	5.16	3.63	2.55	3.41	6.02	4.32	4.66	4.87	6.67	2.62
13	4.05	2.40	1.78	4.13	2.82	4.31	3.56	2.64	4.89	5.59	5.82	3.58
14	5.54	3.26	2.00	2.88	2.83	4.79	2.83	2.89	5.13	2.57	5.41	4.60
15	6.30	4.76	4.35	2.56	3.05	2.81	5.89	2.30	4.04	3.33	4.95	2.88
16	3.23	4.09	2.97	3.93	3.38	2.25	4.94	4.29	4.84	2.76	6.54	4.05
17	4.97	3.34	3.94	5.25	4.48	2.95	3.91	5.23	3.90	7.59	7.20	2.86
18	5.75	3.24	2.27	3.69	2.81	9.82	5.57	4.14	4.83	5.48	7.54	3.30
19	3.85	4.94	3.34	3.67	3.53	3.67	5.39	5.89	6.40	3.88	4.34	3.35
20	2.86	3.27	3.24	2.89	2.53	2.75	5.76	5.39	5.23	2.89	4.00	2.24
21	5.33	1.98	3.00	1.51	1.85	3.30	3.40	5.39	2.87	6.25	4.32	3.89
22	4.49	5.38	2.08	2.45	2.84	5.53	7.55	4.45	6.60	4.88	4.72	4.13
23	4.02	2.19	3.79	3.87	3.61	2.84	5.33	3.87	3.81	5.28	5.51	4.65
24	5.93	3.24	2.75	2.72	2.33	2.55	3.86	4.47	4.93	5.81	4.66	5.11
25	3.19	3.95	3.79	4.03	3.14	3.05	3.68	2.50	5.15	6.46	5.29	4.41
26	4.22	5.97	2.80	2.88	6.06	2.72	4.32	5.43	2.80	7.11	5.96	5.32
27	4.47	4.97	2.64	3.67	4.33	4.01	3.66	4.31	5.56	4.48	5.27	4.84
28	6.11	3.90	2.60	1.96	2.39	3.26	5.39	5.77	1.85	4.03	4.81	5.30
29	4.73	1.17	3.60	2.68	10.09	3.45	5.07	4.46	2.18	7.33	3.44	7.40
30	4.29	-	1.77	1.80	3.65	3.49	2.42	2.87	3.51	4.47	3.74	5.44
31	7.23	-	3.83	-	2.59	-	3.08	3.35	-	5.01	-	5.81

* Just within the Mersey Catchment

TABLE IVa Contd. 35-Year Totalsof Daily Rainfall, 1916-1950 (in inches)

Werksof, Wigthorpe Hall

Day	Jan	Feb	Mar	Apr	May	June	Jly	Aug	Sep	Oct	Nov	Dec
1	3.33	1.84	1.50	2.27	1.70	2.22	1.50	1.77	3.20	1.64	4.07	1.35
2	1.70	2.91	1.80	2.90	1.91	3.05	1.14	2.43	2.29	0.96	2.66	3.63
3	2.67	2.60	1.12	2.62	1.39	2.33	1.98	1.91	3.96	2.95	2.22	1.68
4	0.97	1.12	2.67	2.85	1.79	0.88	1.65	2.50	1.88	1.78	2.09	4.23
5	1.54	1.86	1.47	1.74	3.73	2.97	2.62	3.49	1.09	2.76	2.70	2.78
6	2.08	1.97	0.77	2.25	3.13	1.75	3.28	4.05	3.11	1.78	1.78	2.15
7	1.93	1.80	2.15	2.30	1.17	1.60	2.15	5.44	0.63	2.20	3.05	2.03
8	2.14	2.88	1.90	2.49	1.13	1.39	1.51	4.45	1.52	2.05	1.65	2.10
9	3.43	2.99	2.27	2.93	1.00	1.55	3.01	3.86	2.29	4.17	3.45	1.36
10	2.84	1.75	1.86	2.28	1.52	0.71	3.48	2.56	1.37	3.80	1.79	1.57
11	3.09	1.95	2.74	1.68	2.64	1.65	1.33	3.23	0.82	2.91	3.84	2.70
12	2.27	2.37	3.01	1.66	2.29	2.64	2.23	2.85	2.70	1.52	1.87	0.75
13	1.83	0.96	0.82	1.67	0.95	5.37	3.76	1.65	3.47	1.52	2.72	2.14
14	3.00	0.69	1.73	1.32	1.26	2.61	4.24	1.61	3.28	1.53	3.40	3.11
15	2.54	1.37	2.56	1.59	2.24	1.92	6.00	1.33	1.35	1.03	3.15	2.36
16	1.37	2.94	2.07	1.87	2.62	2.57	2.94	1.20	2.00	2.14	3.85	1.70
17	2.33	2.00	2.43	3.05	1.94	0.75	4.85	1.48	2.85	3.63	2.69	0.84
18	3.68	1.66	1.42	2.71	1.52	4.01	2.46	2.18	3.58	2.20	6.26	2.03
19	1.68	3.69	2.00	1.50	1.70	2.89	2.59	3.64	3.44	2.28	3.13	2.03
20	1.67	1.42	1.89	1.53	3.03	1.40	4.70	5.06	2.13	1.00	3.27	2.24
21	1.98	1.46	1.08	0.98	5.54	2.69	2.97	2.51	1.49	3.58	3.50	2.41
22	3.08	1.84	1.62	0.99	2.49	2.07	1.66	2.47	3.69	4.01	1.75	2.45
23	2.01	0.65	1.11	2.10	2.99	1.22	1.55	2.67	2.84	3.27	2.68	2.82
24	2.16	4.27	1.52	1.24	1.51	2.16	1.02	1.87	3.85	3.05	2.81	2.59
25	2.77	2.64	2.57	2.81	1.78	0.57	1.57	1.70	2.40	3.51	1.75	1.25
26	2.89	3.37	1.31	1.71	3.56	1.13	3.49	2.48	2.30	3.46	2.04	2.26
27	1.87	3.66	2.29	2.27	2.71	1.39	2.15	2.78	1.41	3.64	2.20	3.67
28	4.67	3.23	0.92	0.94	1.35	0.90	3.27	4.21	1.02	1.42	2.94	2.14
29	3.35	0.92	1.11	1.95	3.16	1.91	1.86	3.91	1.38	3.85	1.96	3.50
30	2.40	-	1.36	1.45	1.08	1.44	1.23	2.36	2.93	2.24	1.38	5.27
31	4.10	-	2.60	-	1.99	-	1.97	1.73	-	3.83	-	1.79

TABLE IVa Contd. 35-Year Totals of Daily Rainfall, 1916-1950 (in inches)

Nottingham

Day	Jan	Feb	Mar	Apr	May	June	Jly	Aug	Sep	Oct	Nov	Dec
1	3.95	1.89	1.41	3.03	1.49	1.84	1.24	1.91	2.53	1.31	3.85	2.05
2	2.28	2.68	1.57	3.29	1.53	2.24	2.11	3.23	2.19	1.11	2.46	2.66
3	2.90	2.97	0.87	2.90	2.03	1.76	2.81	2.33	3.47	3.27	2.18	2.53
4	1.43	1.34	3.24	3.14	1.76	1.46	1.71	2.76	1.59	1.98	1.70	3.96
5	2.01	2.41	1.70	1.91	3.15	2.75	2.28	3.39	1.27	2.07	2.76	1.71
6	2.29	2.35	0.89	1.72	2.58	2.25	3.03	3.98	2.93	1.86	2.59	1.80
7	2.61	2.34	2.24	2.33	1.19	1.24	3.87	3.35	0.72	2.31	2.94	2.21
8	1.69	1.89	0.95	2.36	1.39	1.26	1.60	2.96	2.25	3.08	2.48	2.22
9	3.55	3.49	1.83	2.38	1.84	1.66	3.44	3.17	1.54	3.68	2.45	1.81
10	2.86	1.49	1.64	1.75	2.58	1.01	4.21	2.31	1.84	2.78	2.13	1.31
11	2.80	1.85	2.38	1.74	2.19	0.80	1.18	1.95	1.18	1.44	4.17	1.97
12	2.62	2.57	2.50	1.25	2.10	1.86	3.33	1.87	3.77	2.17	1.62	0.69
13	1.68	1.03	0.92	2.09	0.92	3.36	3.19	0.63	1.60	1.08	2.46	1.96
14	3.14	0.96	1.59	1.41	1.29	3.02	4.74	2.88	5.58	1.30	3.04	3.17
15	2.68	1.65	2.31	1.99	2.13	1.25	6.30	1.54	1.30	1.27	2.60	1.75
16	1.28	3.21	2.26	2.27	2.24	1.72	2.80	1.62	1.51	2.82	3.86	1.35
17	1.69	1.96	2.63	2.81	2.56	0.90	3.42	2.22	3.55	3.98	2.32	0.80
18	3.12	1.60	0.69	1.79	2.86	3.07	2.36	1.46	2.10	2.01	5.32	1.30
19	2.35	3.10	2.31	2.06	1.55	2.18	3.15	4.97	3.26	2.43	3.03	2.09
20	1.94	1.76	1.61	1.65	3.03	1.22	2.51	3.53	2.81	2.01	2.70	1.63
21	2.48	1.54	1.70	0.97	4.12	2.13	2.38	3.33	1.45	2.24	3.66	2.46
22	2.54	1.74	1.73	1.22	2.75	1.64	3.50	1.76	3.69	3.54	2.15	2.34
23	2.13	0.78	1.04	2.33	3.79	1.15	1.92	3.19	2.91	4.45	2.29	2.48
24	1.77	3.42	1.26	1.42	1.51	1.02	2.64	2.86	3.75	2.96	1.87	1.82
25	2.95	2.53	1.80	3.15	1.92	0.86	1.73	2.08	1.38	3.29	1.64	2.07
26	2.96	2.08	1.04	2.42	2.98	1.45	3.43	1.98	1.66	3.26	1.48	2.78
27	2.57	3.38	1.28	2.50	1.82	1.19	2.51	3.15	2.35	2.88	3.15	3.90
28	3.84	2.32	1.11	1.29	1.43	0.90	3.06	4.19	1.16	1.49	3.78	3.12
29	3.22	0.91	1.38	1.73	4.74	1.43	2.02	3.39	1.70	3.84	1.97	2.97
30	2.18	-	1.28	0.95	1.48	2.33	2.03	2.36	2.09	1.89	1.55	5.34
31	3.35	-	1.93	-	2.07	-	2.93	1.80	-	3.77	-	2.29

TABLE IVa Contd. 35-Year Totals of Daily Rainfall, 1916-1950 (in inches)

Longton, The Meir

Day	Jan	Feb	Mar	Apr	May	June	Jly	Aug	Sep	Oct	Nov	Dec
1	5.13	3.89	2.16	3.53	1.34	2.19	1.76	4.54	5.08	1.66	5.77	3.60
2	3.73	4.18	1.33	3.76	1.16	2.71	2.28	3.54	2.79	1.89	3.29	4.22
3	3.65	2.95	1.98	2.12	2.05	3.62	3.20	2.86	5.34	4.74	2.40	3.40
4	2.40	2.56	3.22	2.41	2.42	2.30	3.59	2.52	4.63	3.15	2.38	5.42
5	3.75	3.73	2.32	2.56	5.01	2.96	3.65	4.72	2.98	4.18	3.98	4.13
6	3.73	3.88	2.16	2.68	2.19	3.28	3.71	3.40	2.73	3.46	4.10	2.83
7	3.79	5.78	2.86	2.70	1.35	2.91	3.04	5.77	1.90	3.84	4.12	4.12
8	2.81	3.15	1.88	2.37	1.75	1.57	3.03	3.44	1.92	5.05	3.17	2.30
9	4.34	3.77	1.32	1.95	1.83	2.37	4.90	4.98	1.80	4.93	3.55	2.03
10	4.00	2.06	2.30	1.86	2.75	1.53	4.24	3.30	1.62	5.05	3.36	3.17
11	4.29	3.68	1.81	2.47	2.32	1.34	3.18	4.16	1.34	2.08	6.26	3.03
12	3.85	3.21	1.85	3.17	3.36	4.13	5.74	4.84	5.41	2.38	3.44	0.92
13	2.52	1.21	1.77	3.16	1.47	2.00	3.86	2.90	4.18	2.31	4.47	2.81
14	3.78	2.28	2.20	2.30	2.17	4.68	3.58	3.68	3.35	2.13	4.41	3.74
15	3.89	2.55	1.77	2.45	3.16	2.23	6.81	2.35	1.95	2.05	2.47	3.43
16	2.51	2.36	2.81	4.25	2.22	3.71	2.97	2.61	2.87	3.87	5.67	2.29
17	3.19	2.12	2.87	3.73	3.52	1.50	3.48	3.30	4.19	4.43	4.98	1.72
18	5.44	2.31	1.46	3.08	3.21	4.17	4.45	3.47	3.00	2.70	5.88	2.67
19	2.79	4.15	2.57	2.40	2.09	2.80	4.34	2.95	4.45	3.23	3.99	2.34
20	2.63	2.24	2.43	1.87	2.31	1.73	3.66	5.52	4.07	2.92	3.40	3.31
21	5.48	2.00	1.97	1.28	2.34	3.13	4.62	4.07	2.64	3.97	4.22	3.58
22	4.11	2.55	3.37	1.17	2.75	2.70	3.64	3.09	3.94	4.54	3.60	3.91
23	2.30	1.27	2.14	3.35	4.64	1.51	3.16	3.96	3.62	4.39	3.14	3.96
24	2.06	4.09	2.09	1.29	1.91	1.57	2.44	3.13	3.74	4.96	3.52	2.36
25	3.14	2.88	2.29	3.18	4.51	1.42	3.12	2.86	1.93	4.78	3.46	2.75
26	2.76	4.14	2.26	2.00	3.12	2.17	3.27	2.40	2.47	3.32	3.37	3.79
27	2.65	4.39	1.80	2.62	3.80	2.86	3.59	5.31	2.64	3.37	4.91	4.07
28	5.01	2.39	2.02	1.08	2.00	1.72	4.03	4.84	1.27	2.90	3.77	4.80
29	4.20	0.73	2.34	2.10	4.16	2.36	4.04	4.28	1.95	5.62	2.10	4.75
30	3.04	-	2.04	1.97	1.73	3.03	2.72	3.00	3.98	3.33	2.32	5.83
31	5.19	-	2.67	-	3.16	-	2.64	2.17	-	4.67	-	4.32

TABLE IVa 35-Year Totals of Daily Rainfall, 1916-1950 (in inches)

Edgbaston

Day	Jan	Feb	Mar	Apr	May	June	Jly	Aug	Sep	Oct	Nov	Dec
1	4.35	3.32	1.71	3.19	3.28	2.80	1.97	3.57	3.07	1.23	4.76	3.08
2	2.12	4.09	1.27	4.02	2.42	2.15	3.43	3.45	3.36	1.75	3.56	1.99
3	3.31	3.66	1.48	2.75	2.06	1.69	2.27	2.75	4.99	3.67	2.52	1.68
4	1.92	1.38	3.53	3.53	2.57	1.38	2.60	2.03	2.33	2.31	4.13	4.49
5	2.63	3.53	2.48	3.76	4.70	2.81	3.61	2.82	2.30	3.80	4.43	2.13
6	2.79	2.20	1.45	2.50	3.17	2.90	2.46	4.17	2.73	2.88	4.77	2.44
7	2.33	3.85	1.93	2.18	1.90	1.59	2.34	3.98	1.93	2.53	2.47	3.36
8	2.92	2.48	0.87	2.28	2.45	1.77	2.90	4.34	2.32	5.61	3.19	2.43
9	3.17	3.31	1.56	2.07	1.83	3.16	2.68	4.20	1.96	3.74	3.59	2.95
10	3.86	1.94	2.46	1.89	3.13	2.37	2.58	3.57	1.21	3.75	2.95	2.16
11	4.44	2.11	1.61	1.87	2.50	1.70	2.43	2.63	1.44	1.51	4.94	3.02
12	3.31	3.09	1.80	2.19	2.54	3.12	3.44	3.15	4.37	1.77	2.15	1.17
13	1.98	1.22	2.00	3.75	0.80	2.47	3.85	1.85	2.17	1.36	3.45	3.22
14	3.98	1.65	2.87	2.32	2.70	3.45	4.75	3.05	4.29	1.57	4.26	3.43
15	3.58	1.65	2.09	2.37	3.34	1.66	5.64	1.88	1.50	2.05	2.69	2.41
16	2.06	2.74	3.18	3.33	1.88	2.02	1.94	1.76	2.50	3.35	4.48	2.57
17	2.48	2.59	2.18	2.13	2.78	1.78	4.10	2.33	3.99	4.23	3.05	1.43
18	4.61	2.04	1.46	1.94	2.99	3.18	2.75	2.01	3.71	2.25	6.22	2.03
19	2.68	2.83	3.26	2.69	2.19	1.99	4.77	2.94	4.63	3.78	4.35	2.63
20	2.40	2.20	2.03	2.46	3.44	0.96	2.60	4.89	3.69	2.67	4.12	1.83
21	3.02	1.84	1.72	1.71	3.95	2.72	4.09	3.00	4.98	3.31	4.26	3.80
22	3.73	2.97	2.00	1.00	2.42	1.70	4.33	3.12	3.24	5.01	2.42	3.84
23	2.43	1.04	2.12	2.20	3.70	1.21	3.54	3.54	3.98	4.26	3.46	3.58
24	2.27	3.24	1.69	1.18	2.20	2.02	1.11	1.43	3.25	4.56	3.41	2.88
25	3.54	2.78	2.65	4.25	2.71	1.56	2.62	2.19	2.47	4.28	2.25	2.35
26	4.17	3.46	1.79	2.68	3.17	1.73	2.61	4.87	1.14	4.04	2.78	3.41
27	2.78	3.08	1.73	3.93	3.94	1.52	2.43	4.18	1.35	3.06	2.90	4.15
28	5.23	2.87	1.36	2.03	3.42	1.82	3.16	4.55	0.88	1.63	3.57	3.37
29	3.26	0.67	2.72	2.39	3.96	1.71	3.01	4.30	2.24	4.19	2.13	3.32
30	2.96	-	1.57	2.21	1.17	3.06	2.92	2.35	3.70	2.87	2.81	6.91
31	5.51	-	2.48	-	3.16	-	2.91	1.28	-	4.23	-	3.47

Table IVb Rainfall totals in inches, divided by 35, thus giving 35-year means ranging from 'trace' to .70 in., for use with table IVa.

Totals in inches x	35 yr means x/35		Totals in inches x	35 yr means x/35
- .17	'trace'		12.43 - 12.77	.36
.18 - .52	.01		12.78 - 13.12	.37
.53 - .87	.02		13.13 - 13.47	.38
.88 - 1.22	.03		13.48 - 13.82	.39
1.23 - 1.57	.04		13.83 - 14.17	.40
1.58 - 1.92	.05		14.18 - 14.52	.41
1.93 - 2.27	.06		14.53 - 14.87	.42
2.28 - 2.62	.07		14.88 - 15.22	.43
2.63 - 2.97	.08		15.23 - 15.57	.44
2.98 - 3.32	.09		15.58 - 15.92	.45
3.33 - 3.67	.10		15.93 - 16.27	.46
3.68 - 4.02	.11		16.28 - 16.62	.47
4.03 - 4.37	.12		16.63 - 16.97	.48
4.38 - 4.72	.13		16.98 - 17.32	.49
4.73 - 5.07	.14		17.33 - 17.67	.50
5.08 - 5.42	.15		17.68 - 18.02	.51
5.43 - 5.77	.16		18.03 - 18.37	.52
5.78 - 6.12	.17		18.38 - 18.72	.53
6.13 - 6.47	.18		18.73 - 19.07	.54
6.48 - 6.82	.19		19.08 - 19.42	.55
6.83 - 7.17	.20		19.43 - 19.77	.56
7.18 - 8.52	.21		19.78 - 20.12	.57
7.53 - 7.87	.22		20.13 - 20.47	.58
7.88 - 8.22	.23		20.48 - 20.82	.59
8.23 - 8.57	.24		20.83 - 21.17	.60
8.58 - 8.92	.25		21.18 - 21.52	.61
8.93 - 9.27	.26		21.53 - 21.87	.62
9.28 - 9.62	.27		21.88 - 22.22	.63
9.63 - 9.97	.28		22.23 - 22.57	.64
9.98 - 10.32	.29		22.58 - 22.92	.65
10.33 - 10.67	.30		22.93 - 23.27	.66
10.68 - 11.02	.31		23.28 - 23.62	.67
11.03 - 11.37	.32		23.63 - 23.97	.68
11.38 - 11.72	.33		23.98 - 24.32	.69
11.73 - 12.07	.34		24.33 - 24.67	.70
12.08 - 12.42	.35			

TABLE V. Accumulated Frequencies of Daily Rainfall Amounts 1916-1950

Swineshaw

Daily Totals (in inches)	Jan	Feb	Mar	Apr	May	June	Jly	Aug	Sep	Oct	Nov	Dec	All months
4.50					1								1
4.10					1	1							2
2.50					1	1							2
2.40					1	1							2
2.30					1	1	1				1		3
2.20					1	1	1				1		4
2.10					1	1	1				1		4
2.00			1		1	2	1	1			1		7
1.90			1		1	2	3	1			1		9
1.80			1		1	2	3	1			2		10
1.70			1		1	3	4	1			3		13
1.60	2		1		1	3	4	1		1	3		16
1.50	5	3	2	1	2	3	4	2	3	2	5		32
1.40	6	5	4	1	2	3	5	3	4	5	7	1	46
1.30	6	6	4	1	2	3	5	5	5	7	8	1	53
1.20	6	8	5	2	4	5	5	6	7	11	11	1	71
1.10	9	12	7	2	4	7	7	7	8	14	14	3	94
1.00	16	14	8	3	7	8	11	9	12	18	17	6	129
0.90	21	21	6	5	12	10	16	13	18	21	22	8	175
0.80	33	26	10	9	19	17	24	19	26	25	34	13	255
0.70	47	34	17	13	27	26	34	30	31	41	42	26	368
0.60	71	48	26	23	37	34	60	45	38	62	65	46	558
0.50	96	73	40	37	55	49	82	69	64	95	89	70	814
0.40	124	102	59	63	74	73	114	118	99	121	121	114	1182
0.30	181	147	103	109	101	121	166	163	148	170	183	162	1754
0.20	280	219	175	194	163	174	241	239	214	262	269	247	2677
0.10	432	339	277	312	272	279	353	362	319	402	408	417	4174
0.005	704	561	552	545	493	516	579	604	577	656	688	704	7179
* 0.004	381	428	533	505	592	534	506	481	473	429	362	381	5605
Total No: of days	1085	989	1085	1050	1085	1050	1085	1085	1050	1085	1050	1085	12784

* Including Rainless days.

TABLE V. Contd. Accumulated Frequencies of Daily Rainfall Amounts 1916-1950

Worksop

Daily Totals (in inches)	Jan	Feb	Mar	Apr	May	June	Jly	Aug	Sep	Oct	Nov	Dec	All Months
3.00								1					1
2.60					1			1					2
2.50					1			1					2
2.40					1			1					2
2.30					1			1					2
2.20					1			1					2
2.10					1			1					2
2.00					1			1		1			3
1.90					1			2		1			5
1.80					1			2		1		1	5
1.70		1			1			2		1		1	6
1.60		1			1		3	4	1	1		1	12
1.50		1			1		3	4	1	1		2	13
1.40		1			1		3	4	1	1		2	13
1.30		1			1		3	4	1	1		2	13
1.20		1			1		5	5	3	2		3	23
1.10	1	2			1	3	6	7	3	3		3	30
1.00	4	3	1	1	2	4	10	8	4	6	1	3	47
0.90	4	5	6	1	4	8	11	14	6	10	5	3	77
0.80	7	6	8	1	7	12	15	18	9	14	9	4	110
0.70	10	8	11	2	9	13	20	24	19	20	12	6	154
0.60	12	15	17	4	20	16	25	29	26	27	20	12	223
0.50	23	19	18	13	31	20	36	38	37	41	27	19	322
0.40	38	32	29	30	41	30	54	59	50	52	45	35	505
0.30	73	57	48	54	72	57	89	86	75	70	88	62	831
0.20	125	112	86	96	105	97	141	115	113	120	148	123	1381
0.10	239	193	162	210	190	182	235	201	191	234	252	232	2521
0.005	554	459	408	491	421	401	460	453	423	514	561	542	5687
*0.004	531	530	677	559	664	649	625	632	627	571	489	543	7097
Total No: of days	1085	989	1085	1050	1085	1050	1085	1085	1050	1085	1050	1085	12784

* Including rainless days.

TABLE V Contd. Accumulated Frequencies of Daily Rainfall Amounts 1916-1950

Nottingham, The Castle

Daily Totals (in inches)	Jan	Feb	Mar	Apr	May	June	Jly	Aug	Sep	Oct	Nov	Dec	All Months
2.60								1					1
2.30								1					1
2.20								1					1
2.10								1					1
2.00					1			1					2
1.90					1			2					3
1.80					1			2					3
1.70					1			2					3
1.60					1		1	2					4
1.50					1		1	2	1				5
1.40					1		1	2	2			1	7
1.30					1		2	2	2	1		1	9
1.20			1		2		6	4	3	2		1	19
1.10			1		3		8	4	4	3	2	1	26
1.00			2		4	1	10	4	4	4	2	1	32
0.90	1	1	4		4	2	14	7	9	12	3	1	58
0.80	1	5	4	1	5	3	16	8	13	14	6	4	80
0.70	8	6	5	3	11	5	25	13	17	20	10	5	128
0.60	20	10	9	7	18	6	29	25	19	24	14	10	191
0.50	28	14	14	15	25	11	39	36	31	37	25	18	283
0.40	46	23	25	26	39	26	60	58	43	54	47	32	479
0.30	80	57	42	50	75	54	88	86	74	76	78	59	679
0.20	139	106	77	103	124	83	151	133	113	111	144	127	1411
0.10	242	206	155	217	197	174	244	227	186	216	262	229	2555
0.005	622	498	461	499	454	403	482	474	460	533	557	588	6031
* 0.0004	463	491	624	551	631	647	603	611	590	552	493	497	6753
Total No: of Days	1085	989	1085	1050	1085	1050	1085	1085	1050	1085	1050	1085	12784

* Including rainless days.

TABLE V Contd. Accumulated Frequencies of Daily Rainfall Amount 1916-1950

Longten, The Meir

Daily Totals (in inches)	Jan	Feb	Mar	Apr	May	June	Jly	Aug	Sep	Oct	Nov	Dec	All Months
2.50													
2.40													
2.30													
2.20										1			1
2.10										1			1
2.00		1								1			2
1.90		2						1		1			4
1.80		2						1		1	1		5
1.70		2						2		1	1		6
1.60		2						2		2	1	1	8
1.50		2			1		2	2	1	2	2	1	13
1.40		3			1	1	2	3	1	2	2	1	16
1.30	1	3			1	3	5	3	1	3	3	1	24
1.20	1	3		1	3	3	5	5	2	4	3	1	31
1.10	3	3	1	1	3	3	7	5	5	6	4	2	43
1.00	4	5	1	1	4	3	10	6	6	9	5	4	58
0.90	5	6	1	2	7	7	13	12	8	14	6	5	85
0.80	7	11	2	3	8	8	19	18	15	18	13	8	130
0.70	14	12	6	3	12	13	27	23	21	27	21	12	190
0.60	30	19	9	11	19	17	38	40	32	38	32	21	306
0.50	50	27	17	21	34	29	56	63	39	49	49	30	464
0.40	79	54	33	36	55	44	87	88	66	77	91	64	774
0.30	132	92	59	72	89	76	123	139	87	126	132	111	1138
0.20	201	154	121	139	148	128	188	194	163	201	215	197	2049
0.10	343	257	240	249	237	244	318	312	271	312	340	345	3468
0.005	680	531	514	528	479	484	566	576	521	599	620	672	6770
* 0.004	405	458	571	522	606	566	519	509	529	486	430	413	6014
Total No: of days	1085	989	1085	1050	1085	1050	1085	1085	1050	1085	1050	1085	12784

* Including rainless days.

TABLE V Contd. Accumulated Frequencies of Daily Rainfall Amounts 1916-1950

Edgbaston

Daily Totals (in inches)	Jan	Feb	Mar	Apr	May	June	Jly	Aug	Sep	Oct	Nov	Dec	All Months
2.5													
2.4													
2.3													
2.2								1					1
2.1								1					1
2.0								1					1
1.9								1					1
1.8								1				1	2
1.7								1				1	2
1.6							1	1		2		1	5
1.5					1		2	1	1	2		1	8
1.4					1		5	2	1	3	2	1	15
1.3					2		8	4	3	3	2	1	23
1.2	3			1	2		8	4	3	3	3	1	28
1.1	3			1	4	1	10	7	5	4	4	1	40
1.0	7	1	1	1	7	3	12	8	5	7	4	2	58
0.9	8	2	1	2	8	5	13	12	8	10	7	3	79
0.8	11	3	2	6	9	8	17	15	10	22	11	3	117
0.7	12	6	4	10	12	10	22	19	12	24	16	7	154
0.6	20	15	10	13	24	12	28	30	24	35	18	12	241
0.5	38	21	16	20	37	15	39	39	35	45	32	24	361
0.4	64	42	30	35	67	35	63	66	56	72	54	53	637
0.3	96	65	56	58	93	54	92	89	82	81	84	86	936
0.2	168	135	106	134	149	110	161	155	117	149	190	171	1745
0.1	273	220	174	219	217	173	239	228	208	234	266	262	2713
0.005	674	532	514	550	518	469	544	539	535	597	626	633	6731
* 0.004	411	457	571	500	567	581	541	546	515	488	424	452	6053
Total No; of days	1085	989	1085	1050	1085	1050	1085	1085	1050	1085	1050	1085	12784

* Including rainless days.

TABLE VI Maximum and Minimum Monthly and Annual Totals of Rainfall
(in inches), 1916-1950, with supplementary list covering
extremes for the 50-year period, 1911-1960

	Jan	Feb	Mar	Apr	May	June	Jly	Aug	Sep	Oct	Nov	Dec	Year
Swineshaw	1948	1946	1947	1949	1944	1930	1939	1931	1927	1938	1929	1919	1944
1916-50 (Max)	10.65	7.05	6.03	5.36	9.48	7.09	7.40	7.07	7.16	7.35	8.94	8.03	55.73
(Min)	1929	1935	1931	1938	1935	1925	1943	1947	1941	1946	1945	1933	1933
	2.35	0.29	0.30	0.54	0.75	0.11	1.43	0.41	0.71	0.86	0.61	0.31	33.74
Other (Max)								1956	1957			1915	1954
Extremes								11.13	8.46			8.25	57.40
(Min)	1911			1957			1911	1959	1959				1955
	1.75			0.52			0.48	0.39	0.21				32.62
Worksop	1939	1923	1916	1920	1932	1936	1930	1922	1927	1933	1946	1929	1930
1916-50 (Max)	4.72	4.08	3.83	3.70	6.88	4.62	5.18	6.52	4.32	4.14	4.69	4.26	32.77
(Min)	1916	1921	1929	1938	1935	1925	1921	1937	1928	1931	1945	1933	1921
	0.37	0.21	0.07	0.10	0.37	0.10	0.35	0.22	0.23	0.67	0.35	0.35	17.47
Other (Max)											1951	1915	
Extremes											5.40	5.32	
(Min)		1959			1956		1911		1959				1959
		0.13			0.30		0.16		0.00				15.19
Nottingham	1928	1916	1947	1920	1932	1927	1930	1922	1935	1949	1940	1934	1930
1916-50 (Max)	4.29	4.16	4.86	4.03	6.15	4.26	4.69	5.81	4.79	4.37	5.69	3.89	30.77
(Min)	1935	1921	1929	1938	1935	1937	1935	1947	1941	1947	1945	1933	1943
	0.94	0.35	0.08	0.09	0.38	0.33	0.28	0.23	0.34	0.25	0.21	0.23	17.92
Other (Max)	1960						1915	1951	1957	1960		1914	1960
Extremes	4.64						6.15	6.05	5.11	4.37		4.61	32.51
(Min)	1953	1959					1911		1959				
	0.86	0.15					0.09		0.09				
Longton	1948	1937	1947	1920	1925	1927	1936	1931	1918	1932	1940	1934	1931
The Meir (Max)	6.45	5.91	4.76	5.21	5.11	5.20	7.16	6.51	5.78	5.89	8.13	5.93	40.90
1916-50 (Min)	1951	1932	1931	1938	1936	1925	1935	1947	1941	1922	1945	1933	1921
	1.19	0.20	0.15	0.13	0.53	0.11	0.93	0.74	0.46	0.48	0.39	0.33	22.10
Other (Max)						1958			1957		1951	1914	1954
Extremes						5.76			6.17		9.51	6.07	44.21
(Min)	1911				1911		1911	1959	1959				1911
	0.89				0.49		0.37	0.73	0.28				21.97
Edgbaston	1939	1923	1947	1940	1932	1927	1936	1917/46	1918	1949	1929	1929	1927
1916-50 (Max)	5.81	5.88	6.79	4.80	6.81	4.15	6.59	5.66	6.51	5.42	7.12	5.34	35.71
(Min)	1950	1921	1929	1938	1928	1942	1935	1940	1928	1947	1920	1926	1921
	0.74	0.17	0.16	0.10	0.46	0.17	0.40	0.22	0.65	0.40	0.69	0.41	17.93
Other (Max)	1960					1912		1912		1960	1951	1910	1960
Extremes	6.02					4.91		6.81		5.89	7.82	5.38	40.93
(Min)							1911		1959				
							0.27		0.17				

TABLE VII Maximum Daily Rainfall (in inches), 1916-1950, with additional maxima for the 50-year period, 1911-1960

	Jan	Feb	Mar	Apr.	May	June	Jly	Aug	Sep	Oct	Nov	Dec
Swineshaw (1916-50 (Max	1941 1.68	1918 1946 1.50	1919 2.00	1949 1.50	1944 4.50	1930 4.13	1946 2.36	1922 2.08	1931 1.55	1945 1.61	1947 2.47	1947 1.40
(1911-60 (Max	1954 2.29		1953 2.20	1952 1.64					1957 1.62			1915 1.96
Worksop (1916-50 (Max	1937 1.12	1920 1.75	1941 1.01	1949 1.01	1923 2.68	1930 1937 1.25	1918 1.64	1922 3.08	1931 1.63	1933 2.00	1916 1.13	1937 1.98
(1911-60 (Max			1955 1.08	1959 1.02		1952 1.80					1915 1.38	
Nottingham (1916-50 (Max	1919 0.93	1920 0.98	1947 1.26	1940 0.80	1932 2.08	1931 1.00	1937 1.69	1922 2.60	1931 1.53	1940 1.33	1916 1.11	1948 1.40
(1911-60 (Max	1960 1.15					1953 1.40	1915 2.58					1960 1.74
Longton, The Meir (1916-50 (Max	1936 1.37	1946 2.05	1941 1.16	1923 1.22	1930 1.58	1931 1.42	1937 1.55	1948 1.93	1931 1.56	1933 2.28	1929 1.88	1922 1.62
(1911-60 (Max			1955 1.31									
Edgbaston (1916-50 (Max	1923 1.29	1950 1.02	1919 1.00	1940 1.24	1924 1.51	1931 1.10	1925 1.66	1922 2.20	1925 1.58	1929 1.64	1940 1.48	1948 1.86
(1911-60 (Max	1960 1.67		1953 1.35	1959 1.48		1958 1.28	1915 1.85					

* Taken from Worksop (Bracebridge S. Wks.)

Appendix I
Intense falls of Rain in 2 hours or less, 1865-1960
Extracted from British Rainfall
(Arranged chronologically, in county order).

Year	Class	Station	Riv. Div.	Date	Amt. in.	D'r'n min.	Rate in/hr.
<u>Rutland</u>							
1905	R	Market Overton	3	Jly. 9	2.07	60	2.07
<u>Staffordshire</u>							
1865	R	Leek	5	Aug. 7	0.80	18	2.67
1880	R	Cheadle (Oakamoor)	5	Aug. 27	1.72	60	1.72
1880	R	Cheadle (Heath House)	5	May 3	1.00	12	5.00
1891	N	Burton (Derby Road)	4	June 25	1.50	120	0.75
1893	R	Cheadle (Heath House)	5	Jly. 3	1.97	60	1.97
1893	R	Brewood (Belvide Res.)	3	June 14	2.38	120	1.19
1897	N	Salt Vicarage	3	Apr. 28	1.04	60	1.04
1905	R	Hoar Cross	4	Jly. 9	1.52	60	1.52
1905	R	Salt Vicarage	3	June 27	1.52	60	1.52
1905	N	Mayfield House	5	Jly. 9	1.14	60	1.14
1905	N	Lichfield (St. John Street)	3	Jly. 9	1.63	90	1.09
1914	N	Mayfield House	5	Jly. 2	0.58	13	2.68
1914	N	Ipstones (Sharpccliffe Hall)	5	Jly. 20	1.11	45	1.48
1915	R	Leek (Hillesdon)	5	May 7	1.78	60	1.78
1918	VR	Stafford (Rising Brook)	3	May 17	2.27	60	2.27
1927	R	Uttoxeter (The Gendalls)	5	Jly. 11	2.00	75	1.60
1931	R	Walsall (Gorway)	3	June 14	1.80	50	2.16
1931	N	Brereton	3	June 5	1.34	90	0.89
1931	VR	Cannock S. Wks.	3	June 14	2.35	98	3.71
1935	R	Aldridge (Bourne Vale)	3	Aug. 8	1.50	45	2.00
1936	R	Lichfield (Hanch Res.)	3	June 21	1.50	60	1.50
1936	N	Yarlet Hall	3	June 21	1.36	120	0.68
1940	N	Brownhills	3	Apr. 26	1.10	42	1.57
1946	R	Stafford (Newport Road)	3	Aug. 19	1.75	60	1.75
1947	N	Stafford (Newport Road)	3	May 30	0.91	45	1.21
1952	N	Willenhall S. Wks.	3	Aug. 15	0.90	24	2.25
1953	N	Hanley (Etruria)	3	June 25	0.91	45	1.21
1954	N	Hanley S. Wks.	4	Aug. 21	1.05	50	1.26
1957	N	Keele (Univ. Coll. of N. Staffs.)	3	Jly. 6	0.80	22	2.18
1957	N	" "	3	Jly. 6	0.84	37	1.36
1957	N	" "	3	Aug. 11	1.08	40	1.62
1957	N	" "	3	Aug. 11	1.18	58	1.22
1958	N	" "	3	Aug. 10	0.70	15	2.80
1959	N	" "	3	Aug. 21	1.13	60	1.13
<u>Worcestershire</u>							
1910	N	Sparkhill	5	June 12	0.96	30	1.92
1957	N	Dudley (Tipton Road)	5	Jly. 4	0.96	40	1.32
<u>Warwickshire</u>							
1872	N	Bickenhill Vicarage	4	June 19	0.99	20	2.97
1884	N	Willey Rectory	4	Jly 27	1.30	75	1.04
1884	N	Solihul Cemetery	4	May 7	1.48	90	0.99
1931	R	Northfield (Wych Elm)	4	June 14	1.61	45	2.15
1941	N	Selly Oak (Wesley Hill)	4	Jly. 12	1.35	120	0.67
1946	VR	Sutton Coldfield (Wylde Green)	4	June 23	2.85	60	2.85
1946	VR	" " (The Fark)	4	June 23	2.74	85	1.93
1949	N	Minworth Greeves	4	Jly. 13	1.39	70	1.19
1949	R	Birmingham Airport (Elmdon)	4	Jly. 13	1.38	35	2.37
1952	N	Birmingham (Walsall Road)	4	Jly. 1	1.11	45	1.48
1952	N	Handsworth (Howard Road)	4	Jly. 1	1.32	50	1.58
1952	R	Birmingham (Erdington, Spring Lane)	4	Jly. 1	1.63	60	1.63
1952	N	" (Handsworth Park)	4	Jly. 1	0.95	30	1.90
1952	N	" "	4	Jly. 4	0.81	20	2.43

/Leics.

Appendix I (Contd.)

Year	Class	Station	Riv. Div.	Date	Amt. in.	D'r'n min.	Rate in/hr.
<u>Leicestershire</u>							
1867	N	Leicester	4	Jly. 13	0.88	30	1.76
1869	N	Wigston	4	Apr. 14	1.00	60	1.00
1872	N	Leicester (Belmont Villas)	4	Jly. 11	0.90	40	1.35
1873	N	Melton Mowbray (Goston Rectory)	4	Aug. 19	1.00	60	1.00
1880	N	Ashby Magna	4	Aug. 30	1.72	120	0.86
1891	N	Thurcaston	4	Jly. 8	0.51	5	6.12
1891	R	Loughborough	4	June 25	2.00	90	1.33
1893	N	Rotherby Hall	4	Aug. 3	1.47	90	0.98
1898	N	Leicester	4	Aug. 19	1.05	35	1.80
1913	N	Belvoir Castle	4	June 17	0.84	25	2.02
1921	N	Ratcliffe-on-Wreake College	4	Aug. 17	1.04	60	1.04
1925	N	Barkby Hall	4	May 18	1.20	90	0.80
1932	N	"	4	June 11	1.00	30	2.00
1936	R	Market Bosworth (Senior School)	4	June 21	2.47	120	1.23
1937	VR	Ashfordby Hill (Iron Works)	4	Jly. 15	3.50	120	1.75
1937	R	Melton Mowbray (White Lodge)	4	Jly. 15	2.11	120	1.05
1941	R	Frolesworth	4	Jly. 12	0.85	10	5.10
1947	R	Leicester (Woodville Road)	4	Jly. 19	0.98	15	3.92
1949	N	Barkby Hall	4	Jly. 15	0.98	45	1.31
1949	R	ULLverscroft (Chittermann)	4	Jly. 15	1.75	75	1.40
1953	R	Melton Mowbray (White Lodge)	4	Jn. 26	1.98	75	1.58
1956	R	Leicester Woodville Road	4	Jly. 16	1.05	60	1.05
1954	VR	Netherseal (Chilcote)	4	Jly. 6	3.36	85	2.37
<u>Lircholsnshire</u>							
1905	N	Burton-on-Stather	6	Aug. 28	0.84	25	2.02
1956	R	Torksey P. Sta.	6	Jly. 17	1.54	45	2.05
<u>Nottinghamshire</u>							
1876	N	Mansfield (Grove House)	5	Jly. 22	0.61	10	3.66
1883	R	Newark (East Stoke)	2	Jly. 3	1.45	30	2.90
1884	N	Thrumpton Hall	2	Jly. 9	0.70	15	2.80
1884	N	Worksop (Hodsock Priory)	5	Jly. 9	1.34	80	1.01
1890	N	Southwell (Grants)	5	June 12	0.89	30	1.78
1891	N	Retford (W. Retford House)	5	June 15	0.83	25	1.99
1891	N	Nottingham (Breston Fields)	5	Jly. 1	1.10	90	0.73
1894	R	Newark (Averham Rectory)	5	Aug. 10	1.30	22	3.55
1896	R	Worksop (Hodsock Priory)	5	June 4	1.85	110	1.01
1912	N	" " "	5	Jly. 27	0.80	24	2.00
1912	N	Mansfield (West Bank)	5	May 30	1.26	40	1.89
1912	R	" (High Oakham)	5	May 30	1.46	55	1.59
1912	N	" (Berry Hill)	5	May 30	1.43	55	1.56
1912	R	" (West Bank)	5	May 30	1.54	60	1.54
1918	N	Nottingham	5	May 21	1.02	20	3.06
1918	R	Worksop (Clinton Villa)	5	Jly. 20	1.79	88	1.22
1925	N	" (Hodsock Priory)	5	Jly. 13	1.09	50	1.31
1930	N	Retford (Babworth Hall)	5	Aug. 29	0.90	20	2.70
1930	N	" " "	5	June 18	0.98	30	1.96
1930	VR	Langold (Council School)	5	June 18	2.02	35	3.46
1930	VR	Welbeck Abbey	5	June 17	2.78	60	2.78
1930	N	Harworth Colliery	5	June 17	1.37	60	1.37
1931	R	" " "	5	Jly. 14	1.66	50	1.99
1934	R	Worksop (Osberton Gardens)	5	Aug. 2	1.53	60	1.53
1936	N	Sutton Bonington (Agr. College)	2	Jly. 9	1.26	60	1.26
1937	N	Southwell (The Residence)	2	Jly. 15	1.44	60	1.44
1939	N	Ruddington (Westlands)	2	Jly. 21	0.80	15	3.20
1940	N	" " "	2	May 23	0.91	50	1.09
1941	N	Mansfield (Crow Hill)	5	Jly. 12	0.80	30	1.60
1946	N	Nottingham (Mansfield House)	5	Aug. 25	1.03	60	1.03
1952	R	" (Aspley)	5	Jly. 1	1.23	15	4.92
1952	R	Hunchell (Watnall Road)	5	Jly. 1	1.56	30	3.12
1952	R	Watnall	5	Jly. 1	1.19	18	3.97
1953	R	Nottingham (Sneinton P. Sta.)	5	June 26	1.74	100	1.04
1957	N	Retford (Babworth Hall)	5	Aug. 6	1.19	60	1.19

Appendix I Contd.

Year	Class	Station	Riv. Div.	Date	Amt. in.	D'r'n min.	Rate in/hr.
<u>Nottinghamshire contd.</u>							
1958	N	Kegworth (Kingston Hall)	2	Aug. 10	0.90	20	2.70
1958	N	Nottingham (The Castle)	5	Aug. 10	0.93	45	1.04
1958	N	Beeston (Bramote Drive)	5	Aug. 10	1.11	60	1.11
<u>Derbyshire</u>							
1867	R	Duffield	6	Aug. 20	2.34	120	1.17
1871	N	Trent College	7	June 14	1.27	120	0.63
1878	N	Derby (Findern)	5	June 26	1.08	60	1.08
1878	R	Matlock Bath	6	Aug. 6	2.59	120	1.25
1879	N	Derby (Spondon)	6	Jn. 11	1.24	40	1.86
1880	N	" (Findern)	5	Jly. 13	1.05	60	1.05
1884	R	" (Duffield)	6	Aug. 9	1.75	27	3.89
1884	R	Milford	6	Aug. 9	1.30	35	2.23
1891	N	Willington	5	June 25	1.20	60	1.20
1891	N	Derby (Findern)	5	June 3	1.37	70	1.17
1891	N	" (Elvaston)	5	June 25	1.50	120	0.75
1900	N	Ashbourne W. Wks.	4	Jly. 12	1.58	90	1.05
1909	N	Chellaston	5	Aug. 16	0.92	25	2.21
1912	R	Wirksworth (Manor House)	6	Jly. 22	1.00	10	6.00
1912	N	Darley Hall	6	Jly. 27	0.80	20	2.40
1912	VR	Baslow (The Beeches)	6	Jly. 12	2.20	40	3.30
1912	R	Chesterfield S. Wks.	8	Jly. 27	1.35	40	2.02
1914	N	Ashbourne W. Wks.	4	Jly. 1	1.24	90	0.83
1915	N	Littleover (The Knoll)	5	June 30	1.75	120	0.88
1917	N	Alderwasley	6	May 29	1.22	75	0.98
1918	N	Wirksworth (Manor House)	6	May 13	0.58	8	4.10
1925	R	Derby (Royal Infirmary)	6	May 19	1.63	60	1.64
1926	N	" (Hill House)	7	June 8	0.51	5	6.12
1933	N	Burbage (Lower Burbage)	6	June 22	0.75	10	4.50
1933	N	Derby (Royal Infirmary)	6	June 20	0.90	30	1.80
1936	R	Hegnaston Vicarage	4	June 25	2.33	90	1.55
1937	N	Derby (Royal Infirmary)	6	Sep. 17	0.92	15	3.68
1938	N	" " "	6	Jly. 1	1.47	105	0.84
1952	R	Ilkeston S. Wks.	7	Jly. 1	1.72	30	3.44
1952	R	Morely Hall	7	Jly. 1	1.49	30	2.98
1952	R	Derby (Littleover Crescent)	6	Jly. 1	1.43	35	2.45
1952	N	Ilkeston (New Stanton)	7	Jly. 1	1.16	35	1.99
1952	N	Wirksworth (West End)	6	Jly. 1	1.10	45	1.47
1952	N	Chesterfield (Linacre Filter)	8	Jly. 1	1.18	30	2.36
1952	N	Burbage (Lower Burbage)	6	Jly. 1	1.08	30	2.16
1952	N	Chesterfield S. Wks.	8	Jly. 1	1.25	75	1.00
1957	VR	Church Gresley Maurice Lea Park	3	Jly. 6	2.79	90	1.86
1958	N	Burbage (Lower Bridge)	6	Jly. 2	1.33	54	1.48
1958	N	Breaston (Woodland Ave)	7	Aug. 10	0.84	25	2.02
1958	N	Monyash Rectory	6	Aug. 22	1.61	85	1.14
<u>Yorkshire (West Riding)</u>							
1872	R	Tickhill	6	Jly. 6	1.30	35	2.23
1884	N	Doncaster (Hatfield)	6	Aug. 9	1.29	45	1.72
1894	N	Tickhill (Sandbeck Park)	6	Jly. 25	1.00	30	2.00
1894	VR	" " "	6	Jly. 25	1.82	30	3.64
1897	N	Tickhill	6	June 30	2.60	80	1.95
1899	N	Doncaster (Wadworth Hall)	6	Jly. 12	0.77	30	1.54
1944	N	Burbage (Lower Burbage)	6	May 29	0.44	5	5.28
1949	N	Tickhill (Dadsley Road)	6	Jly. 25	1.24	30	2.48
1952	N	Finningley Airfield	6	Jly. 1	0.75	15	3.00

Trent:- Rutland 3 Lincs. 6, 7
 Staffs. 3, 4, 5 Notts. 2, 3, 4, 5
 Worcs. 5 Derbys. 3, 4, 5, 6, 7
 Warwa. 4 Yorks W.R. 5, 6
 Leics. 4

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Key:

N = Noteworthy
 R = Remarkable
 VR = Very Rare

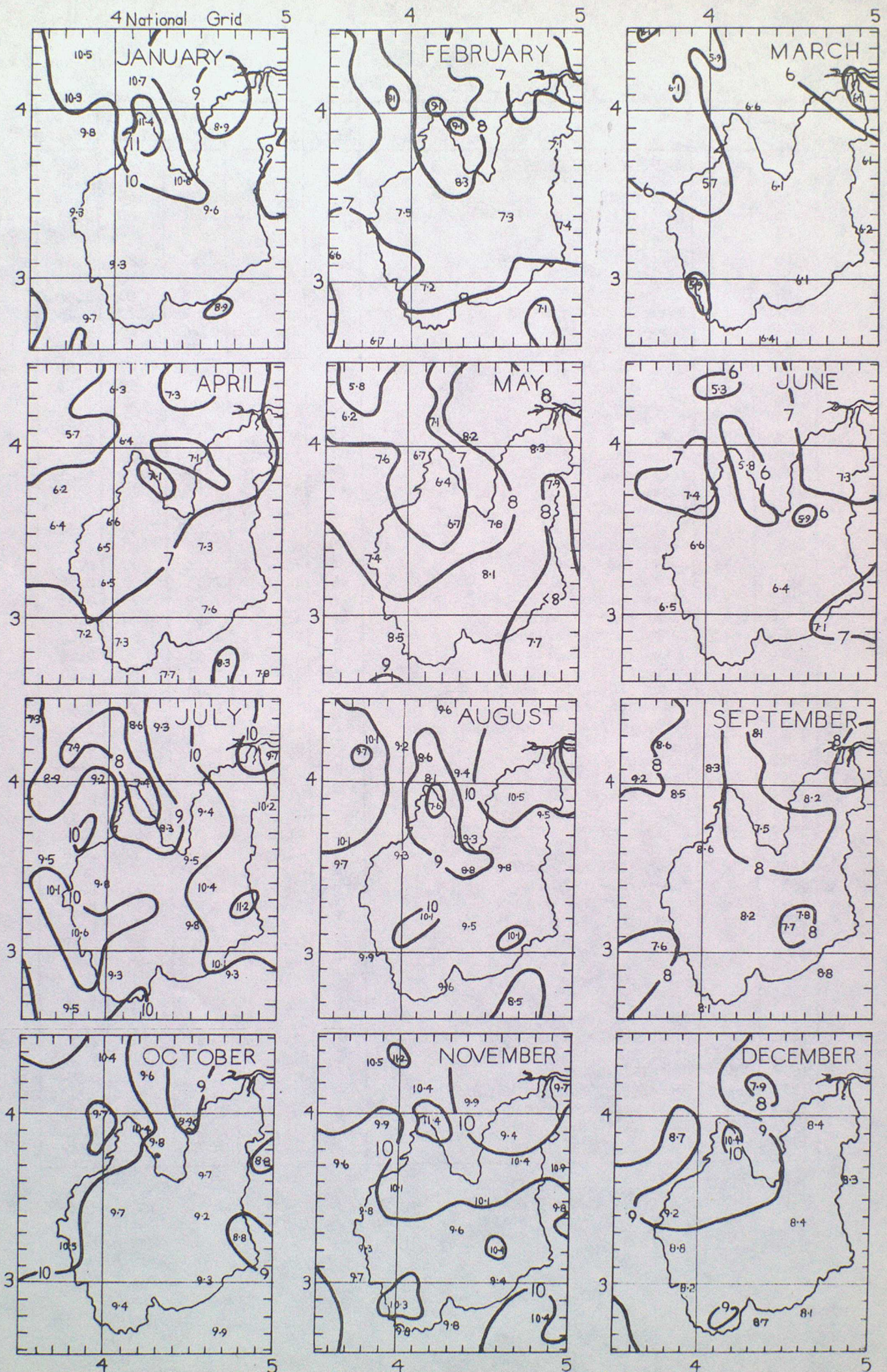


Fig 1 Average Monthly Rainfall as percentage of Average Annual Rainfall 1916-1950

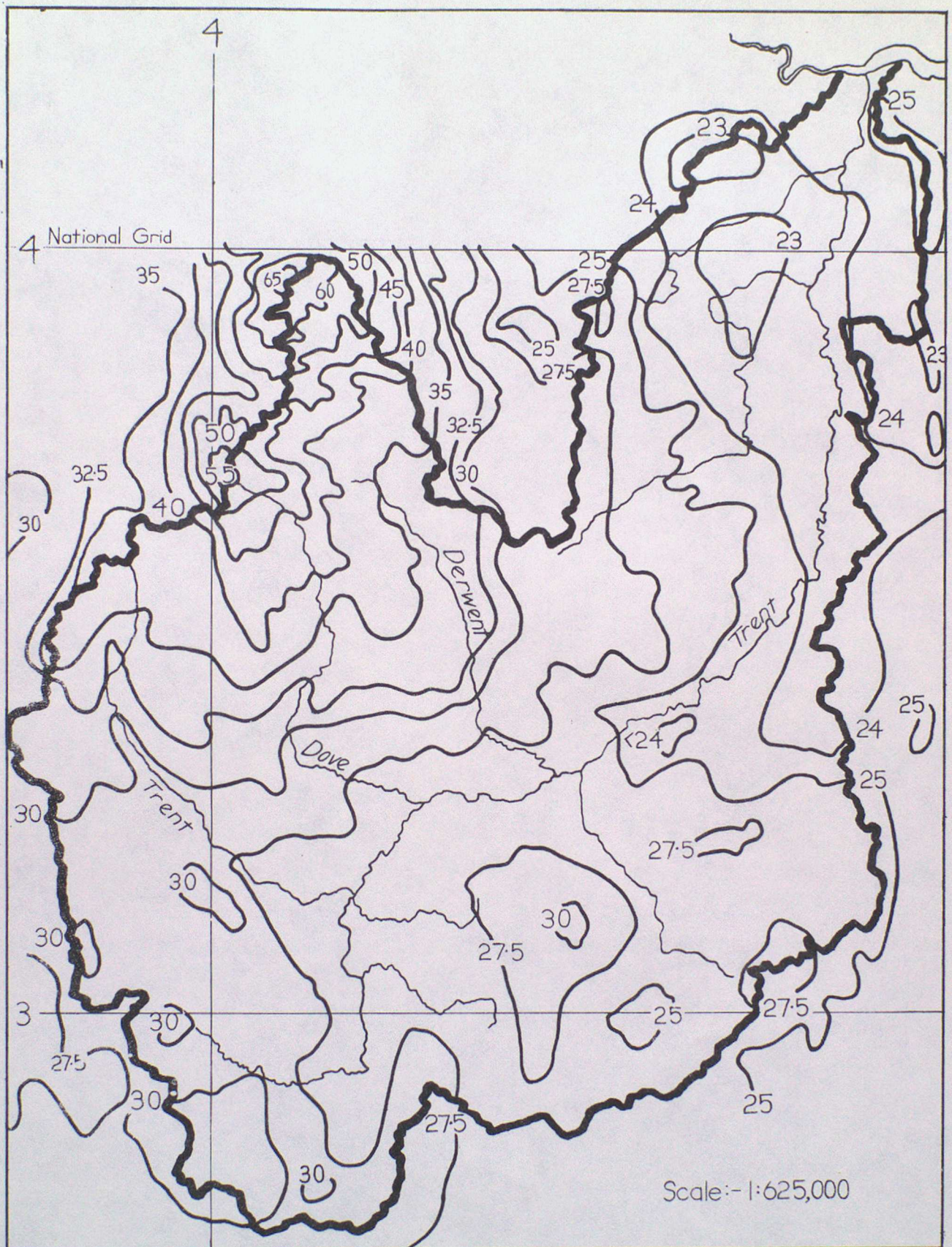


Fig 2 AVERAGE ANNUAL RAINFALL 1916—1950,(in inches) over the Trent River Board area