

[Report 1915] / Medical Officer of Health, Staffordshire County Council.

Contributors

Staffordshire (England). County Council.

Publication/Creation

1915

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STAFFORDSHIRE COUNTY COUNCIL.

ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH,


GEORGE REID, M.D., D.P.H.,

FOR THE YEAR 1915.

STAFFORD:

PRINTED BY ALLISON & BOWEN, LTD., THE "CHRONICLE" PRESS,
19, GREENGATE STREET.

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1916.



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STAFFORDSHIRE COUNTY COUNCIL.

ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH,

Presented to the Council at the Quarterly Meeting,

November 4th, 1916.

Introduction.

Last year, in presenting my Twenty-sixth Annual Report, I had to point out that the matter it contained was considerably curtailed owing to my being engaged in military duties, and this year, partly for the same reason, and also because the Local Government Board have intimated that during the war Medical Officers of Health will not be expected to print the usual full Reports, my twenty-seventh Report is also materially curtailed. Reference to the text of the reports of district Medical Officers of Health is again omitted, and, in addition, the usual table summarising the work of sanitary inspectors is not introduced. I give, however, a short summary of the work carried on by the Public Health Committee for the twelve months ending June 30th, 1916, together with the special summary tables dealing with the more important statistics. I much regret that the statistical figures this year are incomplete owing to the fact that no report relating to the Wednesfield Urban District has been received, owing to circumstances which will be explained to the Public Health Committee in order that they may determine whether or not to recommend that the usual contribution towards the cost of the public health service of the district shall be withheld.

GEO. REID,

COUNTY MEDICAL OFFICER OF HEALTH.

Stafford,

September, 1916.

SUMMARY OF YEAR'S WORK OF THE PUBLIC HEALTH COMMITTEE
OF THE COUNTY COUNCIL.

The most important matter which has engaged the attention of the Public Health Committee during the year has been the framing of a scheme of health visiting for the County, under the Notification of Births (Extension) Act, 1915. The question of the expediency of exercising the powers of the County Council under the Act during the period of the war gave rise to considerable controversy, but ultimately a scheme was approved by the Council which has since been approved by the Local Government Board, excepting certain areas where schemes were already in operation, and a few others for which schemes had been submitted since the passing of the Act which complied with the requirements of the Board. It is hoped that the County Scheme, which will serve 28 districts with a total estimated population of 264,921, will come into operation on October 1st.

The general work of the Public Health Committee has again, for the reason stated, been considerably curtailed. At the same time, matters which had previously been taken in hand have been advanced and, as far as possible, new work has been undertaken. For example, during the year detailed reports on the sanitary circumstances in the following districts have been presented :—Darlaston, Wednesbury and Willenhall, while in other districts previously reported upon the matters referred to the respective District Councils have been under the consideration of a special sub-committee appointed to deal with such reports.

The routine work under the Rivers Pollution Prevention Acts has proceeded on former lines, the systematic work of inspecting sewage disposal works having gone on systematically.

As regards sewage effluents, while special attention is directed to recently constructed works, the works which have been thoroughly established are by no means overlooked. All are systematically inspected by the County River Inspector, who at once reports to me any irregularities he observes. Needless

to say, his visits are surprise ones, no previous notice being given of his intention to visit, and it speaks well for the good faith of the local authorities that his visits are hailed with appreciation rather than resentment.

It is customary to call the Public Health Committee's attention at the time to any serious irregularities which are noted in the management of sewage works, and the responsible Authorities in such cases are invariably communicated with. Many lesser irregularities noted, however, are satisfactorily dealt with by myself, without troubling the Committee, by merely calling the local surveyor's attention to them.

As regards the southern districts which drain into the River Tame, I am glad to be able to state that the new and extensive works at Walsall continue to treat satisfactorily the whole of the sewage of the Borough. At Willenhall, also, the still newer works are yielding good results, and from the Bilston and Wednesbury works the usual good effluents continue to be discharged. At Tipton the new works are giving satisfactory results, and progress has been made in connecting the houses with the new sewers. The construction of the new works at Darlaston has not yet been commenced owing to the fact that the sanction for the necessary loan has been postponed on account of the war. For the same reason the contemplated extension of the works at Oldbury and West Bromwich has been postponed.

In the north of the County, apart from one or two unimportant temporary irregularities, which have been corrected on representations being made, the numerous works constructed during recent years, and the effluents from which discharge into the Trent or its tributaries, have proved to be quite equal to dealing with the sewage of the large populations which they serve.

Besides one or two smaller schemes which have been hung up for the present, schemes for Audley and the Borough of Stafford, the former being an entirely new scheme, and the latter an important extension, have also been suspended because of the war

I regret to say that in various parts of the County streams have suffered owing to the establishment of munition works from which highly polluting effluents are discharged. These effluents are most difficult to deal with, and, under the circumstances, there is no possible remedy. Incidentally, because of a greatly increased call for gas for munition works and the resulting excessive amount of tar products to be disposed of, a sudden and serious pollution of the River Tame took place from the Saltley Gas Works belonging to the Birmingham Corporation, which resulted in the destruction of a large number of fish in the River Trent. The circumstances were enquired into jointly by the County Council, the Birmingham Tame and Rea Drainage Board, and the Trent Fishery Board, with the result that steps were taken to prevent a recurrence of the pollution, and, I understand that, by way of compensation, the Birmingham Corporation gave a grant to the Fishery Board of £100.

One other pollution which gave rise to the destruction of fish in the River Sow at Stafford was specially enquired into. Although it was not possible to trace this pollution to its definite source, circumstances rather favoured the view that it arose from some irregularity at the Stafford Gas Works. The enquiry failed to establish the fact that any pipe or drain from the gas works communicated with the stream direct, but owing to the absence of any drain plan it was difficult to determine whether there was any indirect communication between the works and the stream. Since the occurrence steps have been taken by the Engineer of the Works to trace all the drains for the purpose of preparing an accurate plan, and it is understood that the County Council will be supplied with a copy of such plan.

The Council are again to be congratulated upon the success which has attended the arrangements for the gratuitous bacteriological examinations in suspected cases of diphtheria, enteric fever, and tuberculosis, as the following figures show :—

	DIPHTHERIA.				TUBERCLE.				ENTERIC FEVER.			
	Positive.	Negative.	Doubtful.	Total.	Positive	Negative.	Doubtful.	Total.	Positive.	Negative.	Doubtful.	Total.
Commencement of Scheme, Oct. 20, 1898, to June 30, 1899	110	101	1	212	...	...	...	...	...	...	...	...
(From July 1, 1899, to June 30, 1900	196	180	2	378	...	...	...	...	...	...	...	...
(From Jan., 1900, to June 30, 1900	...	...	...	...	9	14	...	23	5	4	...	9
From July 1, 1900, to June 30, 1901	350	350	30	730	30	70	...	100	36	36	2	74
" " 1901 " " 1902	190	367	14	571	25	67	...	92	26	32	3	61
" " 1902 " " 1903	247	421	...	668	45	77	...	122	8	41	...	49
" " 1903 " " 1904	183	324	...	507	41	107	...	148	3	34	4	41
" " 1904 " " 1905	231	494	22	747	36	100	...	136	8	24	...	32
" " 1905 " " 1906	271	469	15	755	56	103	...	159	13	34	4	51
<i>a</i> " " 1906 " " 1907	714	771	...	1485	82	120	...	202	18	45	...	63
<i>b</i> " " 1907 " " 1908	660	943	...	1603	47	103	...	150	5	33	1	39
" " 1908 " " 1909	333	637	...	970	48	155	...	203	15	132	3	150
" " 1909 " " 1910	350	904	1	1255	62	187	...	249	11	57	1	69
<i>c</i> " " 1910 " " 1911	442	1518	1	1961	55	196	1	252	13	69	3	85
<i>d</i> " " 1911 " " 1912	311	1035	...	<i>e</i> 1346	13	253	...	266	11	202	4	217 <i>f</i>
" " 1912 " " 1913	175	549	...	724	109	424	...	533	10	35	...	45
<i>i</i> " " 1913 " " 1914	449	1249	...	<i>g</i> 1698	102	536	...	638	4	51	...	55
" " 1914 " " 1915	471	1218	...	<i>h</i> 1689	110	410	...	520	21	52	...	73
<i>j</i> " " 1915 " " 1916	297	774	...	<i>k</i> 1071	87	343	...	430	11	30	1	42
Totals from commencement of Scheme to June 30, 1916	5980	12304	86	18370	957	3265	1	4223	218	911	26	1155

a Seven special examinations of Cerebro-Spinal fluid for Meningococcus,

b From this year onwards, excluding Smethwick, now a County Borough.

c Excluding five Pottery Towns which, with Hanley, now constitute the new County Borough of Stoke-on-Trent.

d Handsworth added to Birmingham C.B., November 9, 1911.

e Including 224 "Contacts."

f Including 109 Special Blood Examinations from Cheddleton Asylum.

g Including 185 "Contacts."

h Including 117 "Contacts."

i Twelve Special Examinations of Cerebro-Spinal fluid and swabs for Meningococcus.

j Thirty-two ditto ditto ditto.

k Including 106 "Contacts."

As regards the number of examinations for suspected tuberculosis, the considerable reduction this year is explained by the fact that the fitting up of the laboratory at the Tuberculosis

Dispensary at Wolverhampton has enabled the Tuberculosis Officers of the Southern Area to make such examinations for themselves, a practice which it is anticipated will also be possible in the Northern and Mid-Staffordshire Areas.

With reference to the administration of the Midwives Act, 1902, the Council have already been informed as to the progress of the work in the two divisions of the County, but the following statement, which I have compiled from official returns and from information supplied by the Inspectors, will indicate the present position of the County as regards the number of midwives on the Register, and the number who have notified their intention to practise, as well as other details.

The number of certificated midwives on the Roll is 585, of whom 320 have notified their intention to practise, 129 being trained midwives. In addition to these, 48 midwives residing in county boroughs and adjoining counties have also notified their intention to practise within the administrative county.

The ages of midwives who were practising in the administrative county on the 30th June, 1915, and 1916, are indicated in groups in the following table :—

District.	25 to 45.		45 to 65.		65 and Upwards.		Total.	
	1915.	1916.	1915.	1916.	1915.	1916.	1915.	1916.
North	48	37	77	74	32	33	157	144
South	53	66	79	66	32	39	164	171
Total	101	103	156	140	64	72	321	315

As regards the number of cases attended by midwives during 1915 in the two areas respectively, the figures are as follows :—

	No. of Midwives.	Births attended.	Total Births.	Percentage attended by Midwives.	Mean number of cases attended per Midwife.
North	152	3497	5970	58.5	23.0
*South	166	7828	11437	68.4	46.5

* Excluding Wednesfield.

The total number of cases attended by midwives only in the Administrative County during 1915 (excluding Wednesfield) was 11325, the total number of births registered being 17407. It thus appears that midwives attended approximately 65 per cent. of the total births in the county, which is the same percentage as for the previous year.

During the period covered by this summary (July 1st, 1915, to June 30th, 1916), in compliance with the rules of the Central Midwives' Board, 1482 notifications have been received from certified midwives.

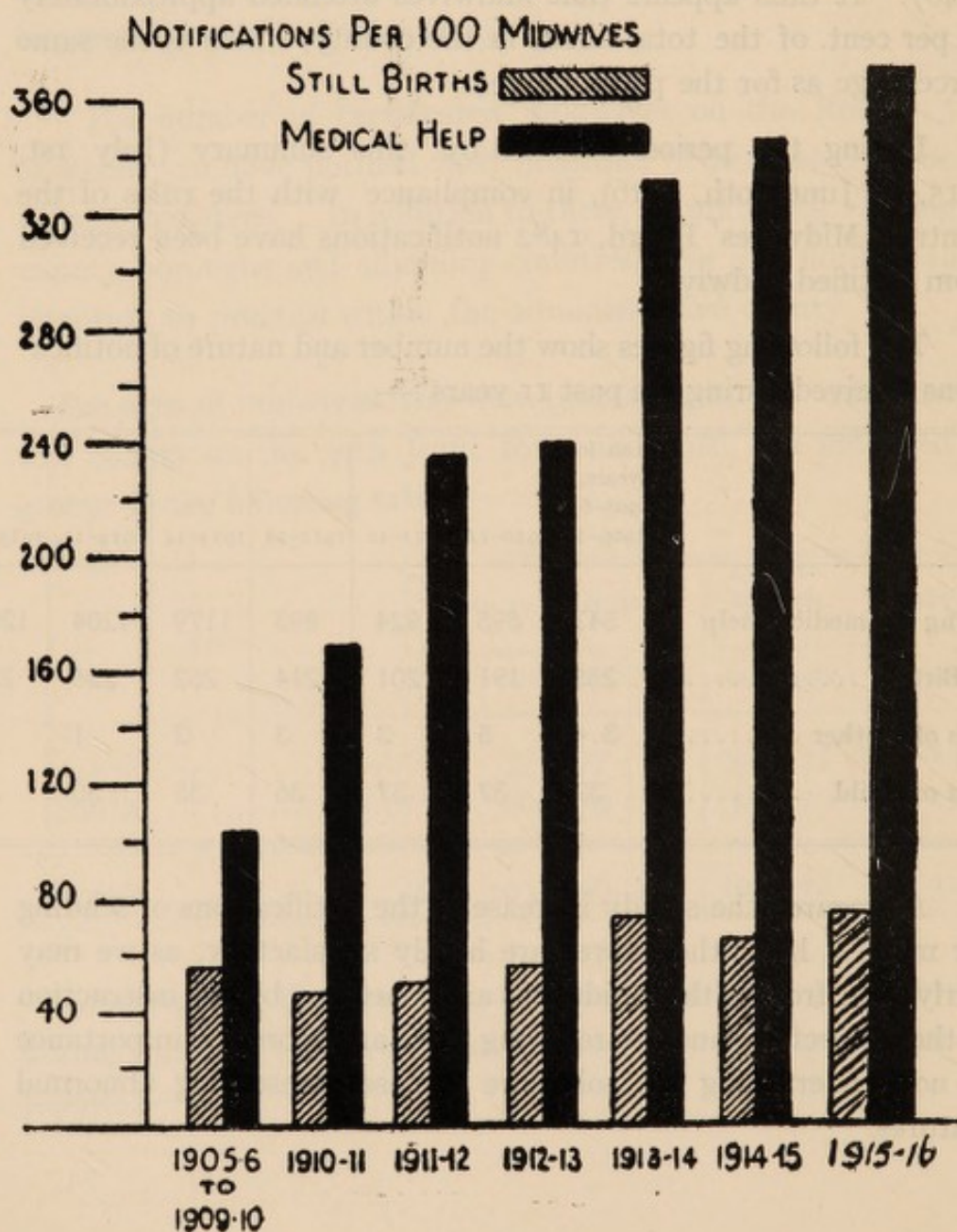
The following figures show the number and nature of notifications received during the past 11 years :—

	Mean for 5 years, 1905-6 to 1909-10.	1910-11	1911-12	1912-13	1913-14	1914-15.	1915-16.
Sending for medical help	547	695	924	893	1179	1204	1209
Still Births	285	191	201	214	252	226	234
Death of Mother	3.4	5	3	3	2	1	4
Death of Child	37	37	37	36	35	30	35

As regards the steady increase in the notifications of sending for medical help, the figures are highly satisfactory, as we may fairly infer from it that midwives are benefiting by the instruction of the Inspectors, and are realising more and more the importance of not undertaking the sole care of cases presenting abnormal features.

These figures are all the more satisfactory in view of the fact that in 1907 Smethwick was constituted a County Borough, thus removing 40 certified midwives from the number under the control of the Local Supervising Authority of the County, and also because of the transference of 73 midwives to the Local Supervising Authority of the County Borough of Stoke-on-Trent, constituted in 1910, and the inclusion of Handsworth in the County Borough of Birmingham in November, 1911.

The significance of these figures becomes more apparent when represented in diagrammatic form showing the relative proportion of medical help and still birth forms per 100 midwives in each year :—



It will thus be seen that while the notifications of still births were pretty constant, varying between the limits of 43 and 73 per 100 midwives, the corresponding figures of sending for medical help steadily progressed from 63 in 1905-6 to 378 in 1915-16, an increase of 500 per cent.

To some extent the marked increase during the past three years in the medical help cases may be accounted for by the Treasury maternity grant of 30s.

The following figures show the causes which occasioned the sending for medical help:—

Causes of sending for medical aid.					Northern District.	Southern District.	Total.
PREGNANCY :							
Abortion	...	...	...	...	20	20	40
Threatened abortion	...	...	...	...	1	2	3
Puffiness of face and hands	...	...	...	...	4	5	9
Premature birth	...	...	...	...	5	7	12
Fainting	...	...	...	...	1	2	3
Varicose Veins	...	...	...	...	1	3	4
Fits	...	...	...	...	—	5	5
Vaginal discharge	...	...	...	...	1	—	1
Unsatisfactory condition	...	...	...	...	—	2	2
Prolapse of uterus	...	...	...	...	1	—	1
					34	46	80
LABOUR :							
Abnormal presentation	...	...	...	...	27	72	99
Delayed or difficult	...	...	...	...	95	201	296
Placenta prævia	...	...	...	...	—	1	1
Hæmorrhage ante	...	...	...	...	15	19	34
Ditto post	...	...	...	...	8	28	36
Eclampsia	...	...	...	...	—	2	2
Prolapse of cord	...	...	...	...	—	15	15
Lacerated perinæum	...	...	...	...	51	100	151
Retained placenta and membranes	...	...	...	...	17	48	65
Unsatisfactory condition	...	...	...	...	5	—	5
Cough	...	...	...	...	2	—	2
Inertia	...	...	...	...	18	15	33
Contracted pelvis	...	...	...	...	—	8	8
					238	509	747

Causes of sending for medical aid.	Northern District.	Southern District.	Total.
LYING-IN :			
High temperature	14	39	53
Inflamed and painful leg ...	1	2	3
Unsatisfactory condition ...	14	8	22
Offensive lochia	2	—	2
Sores of genitals	1	—	1
Rigor	—	2	2
Abdominal swelling & tenderness	—	5	5
	32	56	88
CHILD :			
Deformities	7	13	20
Convulsions	6	4	10
Inflamed and discharging eyes ...	31	35	66
Feebleness and prematurity ...	41	117	158
Unsatisfactory condition ...	7	7	14
Rash	1	2	3
Pemphigus	—	6	6
Whooping cough	1	—	1
Spina Bifida	2	8	10
Hare lip and cleft palate ...	—	6	6
	96	198	294
GRAND TOTAL	400	809	1209

Unless reliable information is otherwise forthcoming, it is the routine practice to specially enquire into the circumstances attending all still-births reported by midwives, also, in special circumstances, inquiries are made into cases where medical help is sent for as well as when deaths of mothers or infants are reported, and it is the invariable practice when cases of puerperal fever attended by a midwife only in the first instance are reported to specially inquire into the circumstances. In the following table figures are given showing the number of ordinary visits paid by the Midwife Inspectors as well as special visits, the outcome of notifications received :—

As regards the number of visits paid by the two inspectors, it will be seen that those in the southern area largely exceed those in the northern. This is entirely accounted for by the fact that the population in the south is larger and much more concentrated, thus necessitating the expenditure of less time in travelling, and these facts were taken into account in constituting the two areas, the object being to equalise the work as far as possible.

In addition to the routine enquiries, 19 reported irregularities were specially investigated. Of these, nine were dealt with by letters of caution from the County Medical Officer of Health ; four were formally censured by the Local Supervising Authority ; five were reported to the Central Midwives Board ; and in one case the midwife voluntarily surrendered her certificate. Another midwife also voluntarily surrendered her certificate on account of ill-health. As regards the five midwives dealt with by the Central Midwives Board, the certificates were cancelled in each case.

Since the Act came into operation, the names of 78 midwives have been removed from the Roll as the result of representations to the Board by the Local Supervising Authority.

It would appear that the policy of the Local Supervising Authority in prosecuting women who, though uncertificated, have practised as midwives, has had the desired effect, for, during the year under review proceedings had to be taken in one such case only.

During the year six midwives have died.

In the following table particulars as regards equipment, etc. of certificated midwives are set forth :—

PARTICULARS AS TO EQUIPMENT AND EFFICIENCY OF MIDWIVES VISITED.

District.	Requirements.					No. reasonably clean as to		No. who can—		Reasonable knowledge as to Treatment of Mother and Infant Manage- ment.	
	Washing Dresses and Aprons.	Bags Equipped.			Case Books and Forms.						
		Fully.	Partially.	Nil.							
North	152	146	6	—	152	146	147	146	132	68	143
South	168	127	41	—	168	167	167	153	121	71	167

As regards the Sale of Food and Drugs Acts, the administration of the Acts in this County by the Public Health Committee of the County Council is highly efficient.

The County is divided into two areas under the charge of two Senior Inspectors, who have under them assistants, and who also have the power of appointing further temporary assistants as occasion requires. The work under the Weights and Measures Act is also under the same administration and staff.

As regards the number of samples collected, this County compares favourably, I think, with other counties. In the following table I have set forth the samples which were analysed during the year 1915, together with the results :—

	No. of Samples Sub- mitted.	No. Genuine.	No. Adulter- ated.	Cautions	Prosecu- tions.	Convic- tions.
Arrowroot ..	11	11	..	..	..	..
Butter	473	451	22*	2	11	11
Camphorated Oil ..	1	1	..	..	..	..
Cayenne Pepper ..	2	2	..	..	..	..
Cheese	3	3	..	..	..	..
Cocoa	1	1	..	..	..	..
Coffee	30	29	1	1	..	..
Cream	1	1	..	..	..	..
Cream (Preserved)	4	4	..	..	..	..
Cream of Tartar ..	3	3	..	..	..	..
Flour	21	21	..	..	..	..
Flour (Self-raising)	10	10	..	..	..	..
Ginger (Ground) ..	22	22	..	..	..	..
Lard	88	88	..	..	..	..
Margarine ..	24	24	..	..	2†	2
Milk	1149	1055	94§	21	65	64
Mustard	6	6	..	..	..	..
Pearl Barley ..	1	1	..	..	..	..
Pepper	60	60	..	..	..	..
Rice	3	3	..	..	..	..
Spirits	94	85	9	4	5	5
Sugar	3	3	..	..	..	..
Tartaric Acid ..	1	1	..	..	..	..
Tea	1	1	..	..	..	..
Totals	2012	1886	126	28	83	82

* Seven unofficial; one repeat sample; one case withdrawn and wholesale dealer proceeded against. † Exposed for sale unlabelled. § Four cases withdrawn; wholesale dealer proceeded against in two cases; two taken direct from cows.

Summary of Statistics with Comments.

AREA AND POPULATION.

I have no alteration to record this year in the area of the Administrative County, neither have the areas of the constituent districts been altered since my last report. As the outcome of a Local Government Board Enquiry the area of the Borough of Stafford will be enlarged by the absorption of adjoining parts of the Stafford Rural District, but the Order does not come into force until April 1st, 1917.

The populations of the various districts are, for the purpose of this report, based upon the figures of the civil population, supplied to me by the Registrar-General, but the figures came to me too late to allow of their being made use of in all of the reports of the district medical officers of health. In working out the death-rates for this report, however, I have made use of them, but the populations on which the birth-rates are estimated differ from those used in estimating the death-rates. The former are worked out on the estimated general population at the middle of 1914, while the latter, as stated, are calculated upon the civil populations as supplied by the National Register of August, 1915.

The arguments for this procedure are as follows: As regards the birth-rates, the births registered in 1915 would relate to the population before its disturbance by the war and, therefore, it would not be suitable to base this calculation upon the civil population of 1915. It is true that error may arise owing to immigration, and the Registrar-General points out that the medical officers of health are not precluded from making use of any local information in that direction which would permit of a truer estimate being arrived at. As regards the death-rates on the other hand, as the deaths registered during 1915 occurred among civilians, the Registrar-General points out that the rates should be based upon the civilian population. This departure will, however, render

less valuable the factors of correction for age and sex population, and concerning this the Registrar-General says "difficulties, which will probably prove insoluble, remain as to estimation of populations in age and sex groups and the standardizing factors dependant upon them." Notwithstanding this, however, as the Registrar-General in the summary tables issued in his report for the last quarter of 1915, has made use of the standardizing factors, for age and sex correction, I have also made use of them for the purpose of this report.

In the following table the census figures of population of the Administrative County for 1911, and the civil population in the middle of 1915 are set forth, the urban being distinguished from the rural districts :—

	Census, 1911.	Civil Population middle of 1915.
*Urban	453323	455040
Rural	207232	201667
Total	660555	656707

* Excluding Wednesfield.

BIRTHS.

The births registered in the Administrative County (excluding Wednesfield) numbered 17,407, the number in the urban districts being 12,620 and in the rural districts 4,787.

The mean birth-rates in the whole Administrative County and in the urban and rural districts respectively, for five quinquennial periods and for the past two years (those for 1915 being calculated in the manner described), are shown in the following table, in which corresponding rates in England and Wales and in the large towns in England, compiled from the Registrar-General's returns, are included :—

DISTRICTS.		BIRTH-RATE PER 1000 OF POPULATION.					
		5 Years 1889-1893.	5 Years 1894-1898.	5 Years 1899-1903.	5 Years 1904-1908.	5 Years 1909-1913.	1914. 1915.*
Staffordshire	Combined Urban & Rural	33·6	33·2	32·5	30·3	27·8	27·5 25·6
	Urban	35·5	34·7	33·6	31·5	29·2	29·1 27·0
	Rural	30·2	30·5	30·2	27·0	24·4	23·8 22·5
England and Wales		30·8	29·7	28·7	26·9	24·5	23·8 21·8
Large Towns in England		31·5	30·7	29·7	27·8	25·2	25·0 22·8

* Excluding Wednesfield.

It will be noticed that there is a considerable decrease in the birth-rates both in urban and rural areas, and that the decline is equally marked in England generally and in the large towns.

DEATHS.

The number of deaths among the civil population of the Administrative County amounted to 10,007, the number in the urban districts being 7,238, and in the rural districts 2,769.

In the following table comparative rates for five quinquennial periods and for the past two years are given, together with corresponding figures for the country as a whole, and for town and country districts throughout England :—

		DEATH-RATE PER 1000 OF POPULATION.					
		5 Years 1889-1893.	5 Years 1894-1898.	5 Years 1899-1903.	5 Years 1904-1908.	5 Years 1909-1913.	1914. 1915.*
Staffordshire	Combined Urban & Rural	18·1	16·9	16·1	14·6	14·1	14·1 15·2
	Urban	18·9	17·5	16·6	15·1	14·7	14·9 15·9
	Rural	16·8	15·7	15·1	13·4	12·7	12·3 13·7
England and Wales		19·1	17·4	16·9	15·3	13·9	14·0 15·1
Large Towns		21·0	19·0	18·2	15·8	14·3	14·7 15·6
Country Districts		17·6	15·9	15·7	14·9	13·6	13·4 14·8

* Excluding Wednesfield.

It will be noticed that there is a considerable increase in death-rates, both of urban and rural districts, and that a corresponding increase has occurred in England as a whole. To what extent, if any, this increase may be attributed to the altered basis of calculation adopted owing to the disturbance of the population because of the war it is impossible to say, but one is certainly justified on such grounds in not regarding the figures too pessimistically.

The death-rates in urban and rural districts, together with the figures upon which they are based, are shown in the tables at the end of this report. In the following table the figures are given for those urban districts in which the rates this year exceed 16.0 per 1,000, together with figures and remarks bearing on the influence which causes, preventable and more or less non-preventable, have had in causing such high rates. The districts are placed in order in accordance with the death-rates, the highest being placed first. The fact must not be overlooked, however, that there are other districts, besides those appearing in the table, in which the rates were by no means satisfactory, as a glance at the detail tables at the end of this report will show :—

DISTRICT.	Death rate per 1000 of Population.	Civil Population to middle of 1915.	Number of persons to the Acre.	Zymotic death-rate per 1000 of population.	Occupation, &c.	Increase over average of entire districts from the undermentioned diseases, affecting appreciably the general rate.				Position as regards mean death rate for previous 10 years.
						Measles.	Whooping Cough.	Diarrhea and Enteritis.	Diseases of Respiratory Organs.	
Bilston	20.1	25229	13.5	3.40	Working class	slight	slight	slight	considerable	18.8
Tipton	19.9	32005	14.7	4.11	"	Considerable	—	slight	slight	15.1
Willenhall ...	18.3	18880	14.7	4.33	"	—	Considerable	slight	—	17.0
Coseley	17.9	22817	6.1	1.83	"	—	—	—	slight	16.0
Newcastle ...	17.7	19282	28.7	2.02	"	—	—	—	slight	16.8
Darlaston ...	17.5	17384	19.0	1.61	"	—	—	—	slight	18.5
Lichfield ...	16.7	8196	2.3	1.58	Mostly residential	—	—	—	—	14.6
Stone	16.6	5223	4.9	0.95	Working class	—	—	—	—	14.8
Wednesbury	16.5	28414	12.4	1.50	"	—	—	—	—	15.7

INFANTILE MORTALITY.

It is satisfactory to be able to record that the decline in infant mortality in the Administrative County during recent years has been maintained, the urban mortality being 117 this year compared with 120 the previous year, and the rural 86 compared with 85. As it cannot be said that the climatic conditions were by any means favourable to a low infant death-rate, one is inclined to hope that efforts in the direction of improving general sanitary conditions, and special efforts directed towards a reduction in this rate are beginning to manifest themselves.

ZYMOTIC DEATH-RATE.

The death-rate from zymotic diseases, including under that heading, according to the Registrar-General's classification, the seven principal ones, viz., small-pox, measles, scarlatina, diphtheria, fevers, whooping-cough, and diarrhœa, although higher than in 1914, is not much in excess of that for the two preceding quinquennial periods. The increased rate this year is practically entirely attributable to the prevalence of measles and whooping-cough, diseases which are not very amenable to preventive measures:—

In the following table comparative figures are given for the five quinquennial periods from 1889 to 1913, and for the past two years:—

DISTRICTS.		ZYMOTIC MORTALITY PER 1000 OF POPULATION.						
		5 Years 1889-1893.	5 Years 1894-1898.	5 Years 1899-1903.	5 Years 1904-1908.	5 Years 1909-1913.	1914.	1915.*
Staffordshire	Combined Urban and Rural	1.73	2.15	1.80	1.48	1.48	1.33	1.57
	Urban	1.98	2.54	2.07	1.73	1.75	1.59	1.81
	Rural	1.30	1.44	1.28	0.88	0.83	0.73	1.02
England and Wales		2.13	2.09	1.87	1.55	..	..	..
Large Towns in England ..		2.74	2.77	2.40	1.95	..	..	..

* Excluding Wednesfield.

SPECIAL ZYMOTIC DEATH-RATE.

Small-pox.—With the exception of one case of small-pox which occurred at the Military Detention Barracks, Stafford, and was isolated in the Borough Small-pox Hospital, and another case which was notified in Leek urban district, the County has again been free from cases. As regards the latter case, although every precaution was taken, including isolation, disinfection, and vaccination of contacts, it proved in the end to be a case of chicken-pox which at first presented marked signs of modified small-pox.

Measles.—In the Administrative County, 356 deaths occurred from measles, as compared with 178 in 1914, equal to a rate per 1,000 of the population of 0·54, as against 0·25. Of these deaths, 282 occurred in the urban districts, or 0·62 per 1,000, and 74 in the rural districts, producing a rate of 0·37 per thousand.

In the following table corresponding figures are given for five quinquennial periods, and for the past two years :—

MEASLES.		5 Years 1889-1893	5 Years 1894-1898.	5 Years 1899-1903.	5 Years 1904-1908.	5 Years 1909-1913.	1914.	1915.
Urban	Number of Deaths	195	239	188	211	268	154	282*
	Rate per 1000	0·50	0·58	0·42	0·41	0·54	0·32	0·62*
Rural	Number of Deaths	66	69	40	39	30	24	74
	Rate per 1000	0·29	0·30	0·17	0·19	0·14	0·11	0·37

* Excluding Wednesfield.

Scarlet Fever.—In the Administrative County, 48 deaths occurred from scarlet fever, as compared with 64 in 1914, equal to a rate per 1,000 of the population of 0·07, as compared with 0·09. Of these deaths, 41 occurred in the urban districts, or 0·09 per 1,000, and 7 in the rural districts, producing a rate of 0·03 per 1,000. In the following table corresponding figures are given for five quinquennial periods, and for the past two years :—

SCARLET FEVER.		5 Years 1889-1893.	5 Years 1894-1898.	5 Years 1899-1903.	5 Years 1904-1908.	5 Years 1909-1913.	1914.	1915.
Urban	Number of Deaths	76	95	87	56	43	57	41*
	Rate per 1000	0.19	0.23	0.19	0.11	0.08	0.12	0.09*
Rural	Number of Deaths	39	37	36	16	11	7	7
	Rate per 1000	0.17	0.16	0.15	0.08	0.05	0.03	0.03

* Excluding Wednesfield.

Diphtheria and Membranous Croup.—In the Administrative County, 105 deaths occurred from diphtheria and membranous croup, as compared with 111 in 1914, equal to a rate per 1,000 of the population of 0.16 in each year. Of these deaths, 69 occurred in the urban districts, or 0.15 per 1,000, and 36 in the rural districts, producing a rate of 0.17 per 1,000. In the following table corresponding figures are given for five quinquennial periods, and for the past two years :—

DIPHTHERIA.		5 Years 1889-1893.	5 Years 1894-1898.	5 Years 1899-1903.	5 Years 1904-1908.	5 Years 1909-1913.	1914.	1915.
Urban	Number of Deaths	16	79	91	84	56	76	69*
	Rate per 1000	0.04	0.19	0.20	0.16	0.11	0.16	0.15
Rural	Number of Deaths	20	52	72	28	26	35	36*
	Rate per 1000	0.09	0.23	0.31	0.14	0.12	0.16	0.17

* Excluding Wednesfield.

Whooping Cough.—In the Administrative County, 220 deaths occurred from whooping cough, as compared with 162 in 1914, equal to a rate per 1,000 of the population of 0.33, as against 0.23. Of these deaths, 179 occurred in urban districts, or 0.39 per 1,000, and 41 in rural districts, producing a rate of

Whooping Cough—Enteric Fever—Diarrhœa & Enteritis. 23

0·20 per 1,000. In the following table corresponding figures are given for five quinquennial periods, and for the past two years :—

WHOOPIING COUGH.		5 Years 1889-1893.	5 Years 1894-1898.	5 Years 1899-1903.	5 Years 1904-1908.	5 Years 1909-1913.	1914.	1915.
Urban {	Number of Deaths	182	172	152	175	132	135	179*
	Rate per 1000	0·47	0·42	0·34	0·34	0·27	0·28	0·39*
Rural {	Number of Deaths	52	54	44	42	40	27	41
	Rate per 1000	0·22	0·24	0·19	0·20	0·19	0·12	0·20

* Excluding Wednesfield.

Enteric Fever.—This disease, which must be looked upon as being entirely preventable, caused 14 deaths, compared with 25 in 1914, equal to a rate of 0·02, as against 0·03. Of these, 12 occurred in urban and 2 in rural districts, equalling a rate per 1,000 of the population respectively of 0·02 and 0·01. In the following table corresponding figures are given for five quinquennial periods, and for the past two years :—

ENTERIC FEVER.		5 Years 1889-1893.	5 Years 1894-1898.	5 Years 1899-1903.	5 Years 1904-1908.	5 Years 1909-1913.	1914.	1915.
Urban {	Number of Deaths	59	84	71	49	24	20	12*
	Rate per 1000	0·15	0·20	0·16	0·09	0·05	0·04	0·02*
Rural {	Number of Deaths	29	19	22	6	9	5	2
	Rate per 1000	0·12	0·08	0·09	0·03	0·04	0·02	0·01

* Excluding Wednesfield.

Diarrhœa and Enteritis.—In the Administrative County, 291 deaths occurred from diarrhœa and enteritis, compared with 373 in 1914, equal to a rate per 1,000 of the population of 0·44 as against 0·54. Of these deaths, 244 occurred in urban districts, or 0·53 per 1,000, and 47 in rural districts, producing a

rate of 0·23 per 1,000. In the following table corresponding figures are given for five quinquennial periods and for the past two years :—

DIARRHŒA.		5 Years 1889-1893.	5 Years 1894-1898.	5 Years 1899-1903.	5 Years 1904-1908.	5 Years 1909-1913.	1914.	1915.
Urban	Number of Deaths	242	359	336	309	336	315	244*
	Rate per 1000	0·62	0·87	0·75	0·60	0·68	0·66	0·53*
Rural	Number of Deaths	88	93	81	40	56	58	47
	Rate per 1000	0·38	0·41	0·35	0·20	0·27	0·27	0·23

* Excluding Wednesfield.

Tuberculosis.—Since February 1st, 1913, Tuberculosis, which had been partially notifiable previously, became notifiable generally, both pulmonary and other forms.

In the following table figures are given showing the number of primary notifications received from medical practioners, medical officers of institutions, and school medical inspectors during the twelve months, sub-divided as regards sex, age periods, and locality of disease.

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.

Summary of Notifications during the period of twelve months from 3rd January, 1915, to 1st January, 1916.

Primary Notifications by Practitioners and Medical Officers of Institutions.													Primary Notifications by School Medical Inspectors.				
Age Periods . . .	..	0	1	5	10	15	20	25	35	45	55	65 and up- wards.	Total.	Under 5	5 to 10	10 to 15	Total.
		to	to	to	to	to	to	to	to	to	to						
Pulmonary Males ..	..	4	14	26	18	50	48	97	84	47	33	10	431	—	29	18	47
„ Females ..	..	2	12	29	45	48	57	100	73	37	15	4	422	1	34	37	72
Non-pulm. Males ..	..	13	49	27	9	5	4	8	5	5	1	1	127	—	8	4	12
„ Females ..	..	11	16	28	15	11	7	6	6	2	—	—	102	1	9	10	20

It is interesting to note that fewer notifications have been received this year than in 1914, and still fewer than in 1913, although for that year compulsory notification had only been in operation for eleven months. The figures are 1,722 for 1913, 1,399 for 1914, and 1,233 for 1915. No doubt the diminishing figures are explained by a surmise I made two years ago that the early figures would be higher than those of the succeeding few years, because they naturally would include a considerable number of cases of long standing.

GENERAL MORTALITY TABLES.

TABLES SHEWING THE RESULT OF WORKING
OF THE NOTIFICATION ACT.

NOTE.—In the following tables the individual zymotic mortality is given in order to indicate readily the class of disease that has mostly contributed to the gross rate. Apart from this, no accurate deductions can be drawn from such figures for one year only.

Table showing Population, Number of Persons per Acre, Birth and Death-rates, as well as the Death-rates at all ages and among Children under 1 year, and the Death-rates from Zymotic Diseases, Phthisis, Diseases of the Respiratory Organ, &c.

URBAN.

District.	Population at all ages.		Number of persons per acre.	Birth-rate per 1000 of population 1914.	General mortality per 1000 of population.	Standardizing Factor.	Standardized Death-rate.	Mortality in children under one year per 1000 registered births.	Zymotic mortality per 1000 of population.	Individual zymotic mortality per 1000 of population.							Phthisis.	Tuberculous Meningitis and other Tuberculous Diseases.	Cancer, Malignant Disease.	Bronchitis.	Pneumonia (all forms).	Other Diseases of Respiratory Organs.	Cirrhosis of Liver.	Alcoholism.	Nephritis and Bright's Disease.	Congenital Debility and Malformation, including Premature Birth.
	Census 1911.	Civil Population, 1915.								Smallpox.	Measles.	Scarlet Fever.	Whooping Cough.	Diphtheria and Croup.	Enteric Fever.	Diarrhoea and Enteritis.										
Amblecote .	3155	3091	4.6	20.2	15.8	0.9881	15.6	171	0.32	...	...	...	...	...	0.32	...	1.94	3.23	1.29	...	...	...	...	0.32	1.94
Audley	14776	14756	1.7	27.7	15.0	1.0133	15.1	109	1.69	...	...	0.40	...	0.67	0.34	...	0.27	0.40	1.01	2.57	0.88	0.06	...	0.67	1.21
Biddulph....	7422	7773	1.3	24.3	14.1	0.9855	13.8	120	2.31	...	...	1.28	0.25	0.77	...	...	...	0.12	0.51	0.77	...	0.12	...	0.77	1.28
Bilston	25681	25229	13.5	30.6	20.1	0.9888	19.8	154	3.40	...	...	1.30	0.04	0.87	...	...	1.18	0.67	0.83	3.56	2.01	0.04	0.04	0.15	1.58
Brierley Hill	12263	12034	11.8	25.9	15.0	0.9898	14.8	78	2.57	...	...	0.08	0.08	0.16	1.74	...	0.49	0.24	0.74	1.74	1.16	0.16	...	0.24	0.58
Brownhills .	16852	17564	2.7	31.2	13.7	1.0174	13.9	102	1.65	...	...	0.91	0.23	0.05	0.17	...	0.28	0.62	0.17	0.79	1.65	1.59	...	0.22	1.76
Cannock	28586	30337	3.7	30.4	13.7	0.9913	13.5	99	0.95	...	...	0.19	0.06	0.16	0.09	...	0.42	0.65	0.39	0.85	1.31	1.44	0.13	0.09	1.15
Coseley	22834	22817	6.1	28.3	17.9	0.9886	17.6	142	1.83	...	...	0.65	0.08	0.04	0.13	0.13	0.78	0.17	1.00	1.31	2.67	0.08	0.13	0.08	1.53
Darlaston .	17107	17384	19.0	30.0	17.5	1.0202	17.8	148	1.61	...	...	0.57	...	0.11	0.05	0.05	0.80	0.51	0.86	1.78	2.70	...	...	0.17	1.89
Heath Town	12276	12174	13.7	27.0	14.0	1.0082	14.1	83	0.82	...	...	0.24	...	0.24	...	0.08	0.24	0.16	0.65	1.39	3.03	...	...	0.16	0.57
Kidsgrove .	9012	8972	2.8	25.5	14.4	0.9970	14.3	127	1.89	...	...	0.67	...	0.78	0.22	...	0.22	0.55	1.00	1.56	0.44	...	...	0.55	1.11

Deaths occurring during the year 1915, classified according to Diseases, Ages, and Localities, together with Births occurring during the year.

URBAN.

[illegible]

URBAN—continued.

District.	Population at all ages.		Number of persons per acre.	Birth-rate per 1000 of population, 1914.	General mortality per 1000 of population.	Standardizing Factor.	Standardized Death-rate.	Mortality in children under one year per 1000 registered births.	Zymotic mortality per 1000 of population.	Individual zymotic mortality per 1000 of population.						Phthisis.	Tuberculous Meningitis and other Tuberculous Diseases.	Cancer, Malignant Disease.	Bronchitis.	Pneumonia (all forms).	Other Diseases of Respiratory Organs.	Cirrhosis of Liver.	Alcoholism.	Nephritis and Bright's Disease.	Congenital Debility and Premature Birth.	
	Census 1911.	Civil Population, 1915.								Smallpox.	Measles.	Scarlet Fever.	Whooping Cough.	Diphtheria and Croup.	Enteric Fever.											Diarrhoea and Enteritis.
Leek	16663	17658	12.0	19.1	15.1	1.0028	15.1	97	1.07	...	0.11	0.17	0.11	0.45	...	0.22	1.35	0.16	1.24	1.47	1.01	0.05	0.17	...	0.39	0.96
Lichfield ...	8616	8196	2.3	18.3	16.7	0.8873	14.8	110	1.58	...	0.73	...	...	...	0.12	0.73	1.46	0.24	2.44	0.97	0.48	...	0.24	...	0.73	0.97
Newcastle .	20201	19282	28.7	25.8	17.7	0.9887	17.4	104	2.02	...	0.57	0.20	0.46	0.15	...	0.62	1.50	0.62	1.19	1.39	2.17	0.15	0.10	...	0.67	1.13
Perry Barr	2403	2458	0.6	24.7	9.7	1.0642	10.3	66	0.40	...	...	0.40	...	...	...	...	0.80	...	...	1.20	2.81	...	...	...	0.40	0.40
Quarry Bank	7393	7636	11.4	28.9	14.6	0.9991	14.5	141	1.57	...	0.78	0.26	...	0.13	...	0.39	0.65	...	0.78	1.83	1.57	0.13	0.26	...	0.65	1.17
Rowley Regis	37000	38274	9.9	27.6	14.8	1.0209	15.1	134	1.25	...	0.31	0.15	0.20	0.02	0.02	0.52	0.73	0.31	0.91	1.93	1.38	0.07	0.02	...	0.52	1.69
Rugeley	4504	4438	6.8	22.1	13.9	0.9134	12.6	50	0.45	...	...	...	0.22	...	...	0.22	0.22	0.22	1.35	1.12	0.67	...	0.22	...	...	0.67
Sedgley	16527	16459	4.2	27.1	15.0	0.9906	14.8	116	1.21	...	0.12	...	0.73	0.18	...	0.18	1.09	0.42	0.79	1.03	2.06	...	...	0.24	1.58	
Short Heath	4075	4084	3.8	34.0	14.6	0.9523	13.9	117	2.69	...	0.73	0.73	0.98	...	...	0.24	0.24	0.24	0.48	1.71	0.73	0.24	...	...	0.48	1.95
Smallthorne	13559	13606	5.0	31.2	13.7	1.0308	14.1	112	1.83	...	0.51	...	0.80	0.14	...	0.36	0.73	0.22	0.51	1.39	1.54	0.22	...	...	0.36	1.98
Stafford.....	*21856	*20760	19.1	22.8	15.2	1.0278	15.6	95	0.77	...	0.09	0.14	0.19	...	...	0.34	1.78	0.24	0.82	1.63	1.25	0.04	0.19	0.09	0.29	1.06
Stone	5688	5223	4.9	22.6	16.6	0.8798	14.6	54	0.95	...	...	...	0.57	...	...	0.38	1.33	0.38	1.53	1.33	1.53	0.19	0.57	...	0.38	0.76
Tamworth.	7738	7311	25.7	20.6	15.1	0.9564	14.4	110	0.68	...	0.41	...	...	...	...	0.27	1.09	0.13	0.95	1.50	1.09	...	...	0.27	0.41	1.36
Tettenhall...	5381	5408	3.5	17.9	11.8	0.9002	10.6	51	0.92	...	0.18	0.18	0.55	...	...	...	0.55	...	0.73	0.92	0.92	0.18	0.18	...	...	0.36

* Excluding persons in Public Institutions not belonging to the Borough.

URBAN—continued.

District.	Deaths from all causes.	Deaths from all causes at subjoined ages.								Enteric Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping Cough.	Diphtheria and Croup.	Influenza.	Erysipelas.	Phthisis (Pulmonary Tuberculosis).	Tuberculous Meningitis.	Other Tuberculous Diseases.	Cancer, Malignant Disease.	Rheumatic Fever.	Meningitis.	Organic Heart Disease.	Bronchitis.	Pneumonia (all forms).	Other Diseases of Respiratory Organs.	Diarrhoea and Enteritis.	Appendicitis and Typhitis.	Cirrhosis of Liver.	Alcoholism.	Nephritis and Bright's Disease.	Puerperal Fever.	Other Accidents and Diseases of Pregnancy and Parturition.	Congenital Debility & Malformation, including Premature Birth.	Violent Deaths, excluding Suicide.	Suicides.	Other Defined Diseases.	Diseases ill-defined or unknown.	
		Under 1 year.	1 and under 2 years.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and upwards.																															
Leek	327 268	32	4	10	19	7	36	64	96	...	...	2	3	2	8	4	2	24	...	3	22	...	31	34	26	18	1	4	...	3	...	7	1	...	17	2	1	53	...
Lichfield	163 137	18	3	6	2	3	14	40	51	1	...	6	...	...	...	4	...	12	...	2	20	...	...	12	8	4	...	...	6	...	2	...	6	...	8	...	...	46	...
Newcastle	525 343	55	25	20	19	10	47	84	83	...	...	11	4	9	3	2	1	29	7	5	23	2	2	26	27	42	3	12	1	2	...	13	1	1	22	7	2	85	1
Perry Barr	60 24	4	...	2	1	1	4	2	10	1	2	3	3	7	1	...	1	...	1	1	...	5	...
Quarry Bank...	219 112	31	10	7	8	2	13	24	17	...	...	6	2	...	1	...	...	5	...	...	6	...	7	5	14	12	1	3	...	2	...	5	1	1	9	7	...	10	15
Rowley Regis	1045 569	141	37	28	25	34	61	98	145	1	...	12	6	8	1	5	1	28	3	9	35	3	3	38	74	53	3	20	2	1	...	20	1	2	65	21	6	148	...	
Rugeley.....	100 62	5	5	2	4	3	4	9	30	...	...	...	...	...	1	1	...	1	1	...	6	...	1	4	5	3	...	1	1	1	...	...	...	3	3	...	30	...	
Sedgley	454 247	53	25	7	10	9	27	50	66	...	...	2	...	12	3	1	...	18	2	5	13	1	...	17	34	1	3	...	3	...	4	...	1	26	10	3	89	2	
Short Heath .	145 60	17	3	1	11	1	5	7	15	...	...	3	3	4	...	...	...	1	1	...	2	...	1	4	7	3	1	1	1	1	...	2	...	1	8	1	1	14	1
Smallthorne .	452 187	51	16	12	6	12	16	38	36	...	...	7	...	11	2	...	...	10	2	1	7	...	...	17	19	21	3	5	...	...	...	5	...	4	27	7	...	20	19
Stafford.....	525 317	50	8	10	7	14	46	79	103	2	3	4	...	1	1	37	...	5	17	1	2	39	34	26	1	7	4	2	6	...	2	22	11	2	88	...
Stone	129 87	7	2	6	2	...	5	19	46	...	...	...	...	3	...	...	...	7	1	1	8	...	1	10	7	8	1	2	...	...	3	...	2	...	4	1	...	16	12
Tamworth ...	163 111	18	4	4	2	2	11	27	43	...	...	3	...	...	...	1	...	8	1	...	7	2	3	11	11	8	...	2	...	...	2	...	3	...	10	7	...	32	...
Tettenhall.....	97 64	5	1	2	3	5	6	14	28	...	...	1	1	3	...	...	...	3	...	...	4	...	1	10	5	5	1	...	1	1	...	...	...	1	2	2	...	12	11

URBAN—continued.

District.	Population at all ages.		Number of persons per acre.	Birth-rate per 1000 of population 1914.	General mortality per 1000 of population.	Standardizing Factor.	Standardized Death-rate.	Mortality in children under one year per 1000 registered births.	Zymotic mortality per 1000 of population.	Individual zymotic mortality per 1000 of population.							Pneumonia (all forms).	Other Diseases of Respiratory Organs.	Cirrhosis of Liver.	Alcoholism.	Nephritis and Bright's Disease.	Congenital Debility and Malformation, including Premature Birth.				
	Census 1911.	Civil Population, 1915.								Smallpox.	Measles.	Scarlet Fever.	Whooping Cough.	Diphtheria and Group.	Enteric Fever.	Diarrhoea and Enteritis.							Tuberculous Meningitis and other Tuberculous Diseases.	Cancer, Malignant Disease.	Bronchitis.	
Tipton	31756	32005	14.7	30.8	19.9	0.9735	19.3	139	4.11	...	2.49	0.03	0.31	0.12	0.06	1.09	0.62	0.31	1.02	1.65	2.24	0.24	0.06	0.21	0.24	1.18
Uttoxeter ...	5717	5203	5.0	19.9	13.4	0.9543	12.7	101	0.19	...	...	...	0.19	...	...	...	0.96	0.38	1.53	0.57	1.34	...	...	...	0.38	0.76
Wednesbury	28103	28414	12.4	27.2	16.5	1.0071	16.6	114	1.50	...	0.63	0.07	0.10	0.07	0.03	0.59	1.50	0.31	1.36	1.57	1.12	0.14	0.10	0.03	0.80	1.26
Wednesfield	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Willenhall...	18844	18880	14.7	28.0	18.3	1.0304	18.8	154	4.33	...	0.89	0.05	2.43	...	...	0.95	0.89	0.31	0.84	1.32	1.26	0.42	0.05	...	0.26	1.48
Wolstanton.	27335	27614	5.0	25.8	13.6	1.0365	14.0	92	1.15	...	0.21	0.07	0.18	0.14	0.07	0.47	0.79	0.72	0.79	1.73	1.12	0.03	0.10	...	0.36	0.79
Totals and Averages	453323	455040	5.7	27.0	15.9	1.0001	15.9	117	1.81	...	0.62	0.09	0.39	0.15	0.02	0.53	0.94	0.34	0.96	1.66	1.59	0.11	0.08	0.03	0.36	1.28
96 large towns in England, average population	...	† 188918	...	22.8	15.6	...	15.9	...	...	...	0.50	0.07	0.23	0.16	0.04	† 24.4	...	...	...	...	...	...	...	...	...	...

† Under 2 years; rate calculated to 1,000 births (corresponding urban rate in Administrative County 16.7).

‡ Estimated to middle of 1914.

URBAN—continued.

District.	Deaths from all causes.	Deaths from all causes at subjoined ages.								Enteric Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping Cough.	Diphtheria and Croup.	Influenza.	Erysipelas.	Phtisis (Pulmonary Tuberculosis).	Tuberculous Meningitis.	Other Tuberculous Diseases.	Cancer, Malignant Disease.	Rheumatic Fever.	Meningitis.	Organic Heart Disease.	Bronchitis.	Pneumonia (all forms).	Other Diseases of Respiratory Organs.	Diarrhoea and Enteritis.	Appendicitis and Typhlitis.	Cirrhosis of Liver.	Alcoholism.	Nephritis and Bright's Disease.	Puerperal Fever.	Other Accidents and Diseases of Pregnancy and Parturition.	Congenital Debility & Malformation, including Premature Birth.	Violent Deaths, excluding Suicide.	Suicides.	Other Defined Diseases.	Diseases ill-defined or unknown.
		Under 1 year.	1 and under 2 years.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and upwards.																														
Tipton	992 640	138	74	54	41	25	52	111	145	2	...	80	1	10	4	7	1	20	2	8	33	3	10	30	53	72	8	35	1	2	7	8	...	4	38	25	2	148	26
Uttoxeter	118 70	12	3	4	3	4	9	12	23	...	...	...	...	...	1	...	...	5	2	...	8	...	1	5	3	7	...	...	...	1	...	2	1	...	4	...	22	4	
Wednesbury...	780 471	89	41	20	19	26	63	96	117	1	...	18	2	3	2	2	...	43	1	8	39	2	2	30	45	32	4	17	1	3	1	23	4	4	36	15	3	130	...
Wednesfield ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Willenhall	531 347	82	44	29	10	14	35	51	82	...	...	17	1	46	...	...	1	17	3	3	16	1	4	30	25	24	8	18	...	1	...	5	1	2	28	6	1	56	33
Wolstanton....	750 376	69	22	13	22	21	53	70	106	2	...	6	2	5	4	4	1	22	5	15	22	2	4	33	48	31	1	13	...	3	...	10	1	3	22	21	6	60	30
Totals ...	12620 7238	1485	530	403	344	305	811	1430	1930	12	...	282	41	179	69	70	14	430	55	103	438	29	93	551	757	724	54	244	17	38	14	165	15	39	584	271	40	1736	174

RURAL.

District.	Population at all ages.		Mean area per person in acres.	Birth-rate per 1000 of population 1914.	General mortality per 1000 of population.	Standardizing Factor.	Standardized Death-rate.	Mortality in children under one year per 1000 registered births.	Zymotic mortality per 1000 of population.	Individual zymotic mortality per 1000 of population.						Phthisis.	Tuberculous Meningitis and other Tuberculous Diseases.	Cancer, Malignant Disease.	Bronchitis.	Pneumonia (all forms).	Other Diseases of Respiratory Organs.	Cirrhosis of Liver.	Alcoholism.	Nephritis and Bright's Disease.	Congenital Debility and Malformation, including Premature Birth.
	Census 1911.	Civil Population, 1915.								Smallpox.	Measles.	Scarlet Fever.	Whooping Cough.	Diphtheria and Croup.	Enteric Fever.	Diarrhoea and Enteritis.									
Blore Heath	2287	2204	6.1	23.0	13.1	0.8432	11.0	18	0.45	...	...	...	0.45	...	...	...	0.45	1.36	...	...	...	0.90	...	0.90	...
Cannock ...	19786	19936	2.6	23.8	12.0	0.9419	11.3	69	0.35	...	0.10	0.10	0.15	...	...	...	0.55	0.80	1.15	1.20	...	...	0.05	0.35	0.70
Cheadle	26706	25950	2.0	21.0	14.9	0.9539	14.2	95	1.00	...	0.27	...	0.42	0.07	...	0.23	0.53	0.80	1.07	0.96	...	0.07	0.03	0.07	0.80
Gnosall	4765	4593	6.2	18.3	15.6	0.8188	12.7	136	0.87	...	0.65	...	0.21	...	...	...	1.65	0.43	1.52	1.30	0.21	0.21	...	0.21	1.08
Kingswinford	20803	20446	0.2	27.6	15.7	0.9253	14.5	120	1.17	...	0.19	0.04	0.09	0.19	...	0.63	1.07	1.27	1.61	2.64	...	0.14	...	0.53	0.83
Leek	15487	15641	4.4	22.3	13.4	0.9313	12.4	93	1.85	...	0.51	0.12	0.25	0.57	...	0.38	0.89	0.76	0.76	1.15	0.06	...	...	0.19	0.70
Lichfield ...	*27718	*23626	2.9	21.6	12.4	0.9706	12.0	78	0.80	...	0.34	...	0.12	0.04	...	0.29	0.50	1.48	1.22	1.09	0.08	0.04	...	0.29	0.88
Mayfield	3915	3957	6.2	21.2	15.4	0.8569	13.1	36	1.51	...	0.50	...	...	...	...	1.01	...	2.52	1.01	1.51	...	...	...	0.25	...
Newcastle ..	6410	6198	3.2	20.0	13.7	0.9426	12.9	101	0.64	...	...	0.16	...	0.48	...	...	0.32	1.77	0.64	1.12	...	...	...	0.48	1.45
Seisdon	15074	15348	2.8	21.0	14.1	0.8773	12.3	80	0.52	...	0.13	0.06	0.13	0.19	...	...	0.71	1.10	1.43	1.04	0.26	0.19	0.06	0.19	0.65
Stafford	11777	12097	4.6	21.7	12.9	0.9194	11.8	56	1.07	...	0.74	...	0.08	0.08	...	0.16	0.33	1.40	0.57	1.48	...	0.08	0.08	0.08	0.41

* Excluding 1000 Inmates of Burntwood Asylum.

RURAL—continued.

District.	Deaths from all causes.	Deaths from all causes at subjoined ages.								Enteric Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping Cough.	Diphtheria and Croup.	Influenza.	Erysipelas.	Phthisis (Pulmonary Tuberculosis).	Tuberculous Meningitis.	Other Tuberculous Diseases.	Cancer, Malignant Disease.	Rheumatic Fever.	Meningitis.	Organic Heart Disease.	Bronchitis.	Pneumonia (all forms).	Other Diseases of Respiratory Organs.	Diarrhoea and Enteritis.	Appendicitis and Typhitis.	Cirrhosis of Liver.	Alcoholism.	Nephritis and Bright's Disease.	Other Accidents and Diseases of Pregnancy and Parturition.	Congenital Debility & Malformation, including Premature Birth.	Violent Deaths, excluding Suicide.	Suicides.	Other Defined Diseases.	or unknown.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
		Under 1 year.	1 and under 2 years.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and upwards.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Blore Heath....	54	29	1	...	2	3	...	5	3	15	1	...	1	...	1	3	5	1	3	2</

RURAL—continued.

District.	Population at all ages.		Mean area per person in acres.	Birth-rate per 1000 of population 1914.	General mortality per 1000 of population.	Standardizing Factor.	Standardized Death-rate.	Mortality in children under one year per 1000 registered births.	Zymotic mortality per 1000 of population.	Individual zymotic mortality per 1000 of population.						Phthisis.	Tuberculous Meningitis and other Tuberculous Diseases.	Cancer, Malignant Disease.	Bronchitis.	Pneumonia (all forms).	Other Diseases of Respiratory Organs.	Cirrhosis of Liver.	Alcoholism.	Nephritis and Bright's Disease.	Congenital Debility and Malformation, including Premature Birth.
	Census 1911.	Civil Population, 1915.								Smallpox.	Measles.	Scarlet Fever.	Whooping Cough.	Diphtheria and Croup.	Enteric Fever.	Diarrhoea and Enteritis.									
Stoke-on-Trent	4774	4692	0.7	28.1	13.4	0.9773	13.0	143	1.70	...	...	...	0.42	0.42	0.21	0.64	0.64	0.21	0.21	0.42	2.13	...	...	0.21	2.13
Stone.....	14387	13710	4.9	19.1	13.8	0.8990	12.4	68	0.51	...	0.07	...	0.14	0.14	...	0.14	0.43	0.07	0.94	1.09	1.16	0.07	...	0.29	0.65
Tamworth (Staffs. par.)	5113	5124	4.2	20.8	12.2	0.8927	10.8	36	0.78	...	0.58	...	...	...	...	0.19	1.75	0.78	0.58	1.17	0.58	...	...	0.19	0.19
Tatbury ...	9087	8490	3.0	19.4	12.2	0.9221	11.2	45	0.58	...	0.23	...	0.11	0.23	...	...	0.94	0.47	0.58	0.82	0.70	0.23	...	0.23	0.58
Uttoxeter..	8152	7383	6.4	18.5	11.3	0.9136	10.3	66	0.27	...	0.13	...	...	...	0.13	...	0.40	0.67	1.08	0.67	0.67	...	...	...	0.40
Walsall.....	10991	12272	0.9	31.7	15.1	0.9746	14.7	114	3.25	...	1.79	...	0.65	0.57	...	0.24	1.05	0.16	0.81	1.30	1.30	0.16	...	0.32	1.22
Totals and Averages	207232	201667	3.0	22.5	13.7	0.9262	12.6	86	1.02	...	0.37	0.03	0.20	0.17	0.01	0.23	0.67	0.29	1.04	1.09	1.28	0.05	0.02	0.26	0.77

RURAL—continued.

District.	Deaths from all causes.	Deaths from all causes at subjoined ages.								Enteric Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping Cough.	Diphtheria and Croup.	Influenza.	Erysipelas.	Phthisis (Pulmonary Tuberculosis).	Tuberculous Meningitis.	Other Tuberculous Diseases.	Cancer, Malignant Disease.	Rheumatic Fever.	Meningitis.	Organic Heart Disease.	Bronchitis.	Pneumonia (all forms).	Other Diseases of Respiratory Organs.	Diarrhoea and Enteritis.	Appendicitis and Typhitis.	Cirrhosis of Liver.	Alcoholism.	Nephritis and Bright's Disease.	Puerperal Fever.	Other Accidents and Diseases of Pregnancy and Parturition.	Congenital Debility & Malformation, including Premature Birth.	Violent Deaths, excluding Suicide.	Suicides.	Other Defined Diseases.	Diseases ill-defined or unknown.
		Under 1 year.	1 and under 2 years.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and upwards.																														
Stoke-on-Trent	139	63	20	7	1	3	1	8	5	18	1	...	...	2	2	2	1	3	...	1	1	13	...	5	2	10	...	3	...	...	...	1	...	1	10	3	1	14	...
Stone	279	190	19	6	4	9	7	11	38	96	...	...	...	2	2	8	...	6	1	...	13	...	1	30	15	16	...	2	1	1	...	4	...	...	9	9	2	33	34
Tamworth (Staffs. port'n)	109	63	4	4	2	2	9	10	8	24	...	...	...	...	...	...	...	9	2	2	3	...	8	6	3	2	1	...	...	...	1	...	1	1	5	1	16	...	
Tutbury	176	104	8	7	2	4	2	14	11	56	...	...	...	1	2	6	...	8	3	1	5	...	1	16	7	6	...	...	...	2	1	...	2	1	5	3	1	29	3
Uttoxeter	151	84	10	3	1	3	2	8	19	38	1	...	...	...	...	...	...	3	2	3	8	...	7	5	5	...	...	...	...	...	...	...	...	3	3	1	31	11	
Walsall	357	186	41	20	12	17	7	21	26	42	...	22	...	8	7	1	...	13	...	2	10	1	12	16	16	1	3	...	2	...	4	...	1	15	9	...	35	8	
Totals ...	4787	2769	414	144	105	134	97	271	550	1054	2	74	7	41	36	45	3	136	27	32	210	12	15	328	221	259	11	47	9	18	4	53	2	10	156	91	28	688	204

URBAN—continued.

CAUSE OF DEATH.	Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 4 Weeks.	4 Weeks and under 3 months.	3 Months and under 6 Months.	6 Months and under 9 Months.	9 Months and under 12 Mths.	Total Deaths under One Year.
Pneumonia (all forms) ...	...	...	2	2	4	18	40	52	67	181
{ Diarrhœa ...	...	...	1	5	6	8	20	14	12	60
{ Enteritis ...	...	1	3	1	5	30	37	19	12	103
Gastritis ...	...	1	...	1	2	7	6	...	1	16
Syphilis ...	2	...	...	2	4	3	3	1	1	12
Rickets ...	...	...	...	...	...	...	...	1	2	3
Suffocation, overlying ...	3	3	2	1	9	2	3	...	...	14
Injury at Birth ...	1	1	1	...	3	...	...	...	...	3
Atelectasis ...	12	2	1	...	15	...	...	...	...	15
Congenital Malformations ...	26	3	5	...	34	8	2	3	4	51
Premature Birth ...	171	27	19	8	225	18	2	1	...	246
Atrophy, Debility and Marasmus ...	79	22	29	16	146	75	36	15	9	281
Other Causes ...	17	6	3	4	30	17	17	18	7	89
Totals ...	323	74	77	48	522	260	241	220	242	1485

INFANTILE MORTALITY DURING THE YEAR 1915.

Nett Deaths from stated Causes at various ages under One Year of Age.

RURAL.

CAUSE OF DEATH.	Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 4 Weeks.	4 Weeks and under 3 months.	3 Months and under 6 Months.	6 Months and under 9 Months.	9 Months and under 12 Mths.	Total Deaths under One Year.
Small-pox
Chicken-pox
Measles	2	5	11	18
Scarlet Fever	1	2	3
Whooping Cough	3	3	5	11
Diphtheria and Croup	1	1	2
Erysipelas
Tuberculous Meningitis	3	..	3
Abdominal Tuberculosis	3	2	..	..	5
Other Tuberculous Diseases	1	..	1
Meningitis (<i>not Tuberculous</i>)	1	1	..	2	4
Convulsions	8	2	..	..	10	10	4	5	1	30
Laryngitis	1	..	..	1
Bronchitis	..	3	1	3	7	11	8	10	4	40

RURAL—continued.

CAUSE OF DEATH.		Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 4 Weeks.	4 Weeks and under 3 months.	3 Months and under 6 Months.	6 Months and under 9 Months.	9 Months and under 12 Mths.	Total Deaths under One Year.
{	Pneumonia (all forms) ...	1	...	1	2	4	8	17	18	13	60
	Diarrhoea ...	...	...	1	1	2	2	4	...	2	10
	Enteritis ...	...	1	...	2	3	8	4	4	1	20
	Gastritis ...	...	...	...	...	...	1	2	1	3	7
	Syphilis ...	...	...	1	1	2	...	...	...	...	2
	Rickets ...	...	...	...	...	...	...	...	1	...	1
	Suffocation (overlying) ...	...	1	...	1	2	2	1	...	...	5
	Injury at Birth' ...	1	...	...	...	1	...	...	...	...	1
	Atelectasis ...	4	...	...	1	5	...	1	...	...	6
	Congenital Malformations ...	5	4	1	1	11	2	2	...	...	15
	Premature Birth ...	67	4	7	3	81	5	3	2	...	91
{	Atrophy, Debility and Marasmus ...	19	7	4	3	33	10	4	3	...	50
	Other Causes ...	5	1	4	1	11	...	7	5	5	28
Totals ...		110	23	20	19	172	63	66	63	50	414

NOTE.—Cases of Measles and Whooping Cough are only given when these are included in the diseases compulsorily notified. Small-pox, Scarlet Fever, Diphtheria, and Fevers alone are included in the percentage calculation of hospital cases.

In those districts against which an asterisk is placed, hospitals either exist or provision for isolation is made with other authorities

URBAN.

[illegible]

URBAN—continued.

District, Population, Percentage of Cases treated in Hospital.		Smallpox.	Scarlatina.	Diphtheria (including Membranous Group).	Typhus Fever.	Enteric Fever.	Continued Fever.	Relapsing Fever.	Puerperal Fever.	Cholera.	Erysipelas.	Phthisis.	Other Tubercu- lous Dis- eases.	Acute Polymyositis.	Cerebro-spinal Meningitis.	Ophthalmia Neonatorum.	Measles.	Whooping Cough
BILSTON.* 25,229. 78.5.	Cases	Under 5..... 5 and upwards	13 33	4 5	... 1	... ...	... ...	... ...	... ...	... ...	2 19	3 64	12 2	... ...	... ...	3...	......	...
	Deaths	Under 5..... 5 and upwards	... 1	... ...	... ...	... ...	... ...	... ...	... ...	... ...	1 2	... 31	12 5	... ...	... ...	... ...	30 3	19 3
	Cases treated in hos- pital	Under 5..... 5 and upwards	... 41	3 3	......	......	......	......	......	......	......	......	......	......	......	......	......	...
	Cases	Under 5..... 5 and upwards	9 19	16 73	... ...	... ...	... ...	... ...	2 ...	... ...	7 ...	... 21	2 5	... ...	... ...	1...	......	...
BRIERLEY HILL.* 12,034. 41.8.	Deaths	Under 5..... 5 and upwards	1 ...	5 16	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... 13	1 2	... ...	... ...	... ...	1 ...	2 ...
	Cases treated in hos- pital	Under 5..... 5 and upwards	... 6	43 43	......	......	......	......	......	......	......	......	......	......	......	......	......	...
	Cases	Under 5..... 5 and upwards	15 38	10 34	... ...	... ...	... ...	... ...	... ...	... ...	9 ...	... 29	2 5	......	......	......	......	...
	Deaths	Under 5..... 5 and upwards	3 1	2 1	... ...	... ...	... ...	... ...	... ...	... ...	... ...	... 11	3 ...	... ...	... ...	... ...	15 1	1 ...
BROWNHILLS.* 17,564. Nil.	Cases treated in hos- pital	Under 5..... 5 and upwards	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	...
	Cases	Under 5..... 5 and upwards	40 93	5 16	... ...	... ...	... ...	... ...	5 ...	... ...	4 21	1 56	3 17	... ...	... 1	2...	......	...
	Deaths	Under 5..... 5 and upwards	2 ...	1 2	... ...	... ...	... ...	... ...	1 ...	... ...	... ...	... 19	6 6	... ...	... ...	... ...	6 ...	5 ...
	Cases treated in hos- pital	Under 5..... 5 and upwards	... 24	5 5	......	......	......	......	......	......	......	......	......	......	......	......	......	...
CANNOCK.* 30,337. 18.8.	Cases	Under 5..... 5 and upwards	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	...
	Deaths	Under 5..... 5 and upwards	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	...
	Cases treated in hos- pital	Under 5..... 5 and upwards	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	...
	Cases	Under 5..... 5 and upwards	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	...

URBAN—continued.

District, Population, Percentage of Cases treated in Hospital.		Under 5 5 and upwards	Smallpox.	Scarlatina.	Diphtheria (including Membranous Croup).	Typhus Fever.	Enteric Fever.	Continued Fever.	Relapsing Fever.	Puerperal Fever.	Cholera.	Erysipelas.	Phthisis.	Other Tuber- culous Dis- eases.	Acute Polymyositis.	Cerebro-spinal Meningitis.	Ophthalmia Neonatorum.	Measles.	Whooping Cough.
LEEK.* 17,658. 88·1.	Cases	Under 5 5 and upwards	... 161	35	9 23	...	...	...	...	1	...	15	37	8	...	...	6	...	...
	Deaths	Under 5 5 and upwards	... 2	1	1 7	...	...	...	...	1	...	2	23	3	...	...	...	2	2
	Cases treated in hos- pital.....	Under 5 5 and upwards	... 187	...	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...
LICHFIELD.* 8,196. 61·9.	Cases	Under 5 5 and upwards	... 13	3	4	...	1	...	...	...	...	7	24	2	...	1	9	...	...
	Deaths	Under 5 5 and upwards	... ...	...	...	...	1	...	...	...	...	...	12	2	...	...	...	5	...
	Cases treated in hos- pital.....	Under 5 5 and upwards	... 9	...	4	...	...	...	...	...	...	...	...	...	...	...	...	1	...
NEWCASTLE.* 19,282. 90·6.	Cases	Under 5 5 and upwards	... 119	37	6 34	...	7	...	...	2	...	8	71	7	...	...	5	...	...
	Deaths	Under 5 5 and upwards	... 2	2	1 2	...	...	...	...	1	...	1	29	4	...	...	...	10	9
	Cases treated in hos- pital.....	Under 5 5 and upwards	... 145	...	32	...	7	...	...	1	...	...	...	...	...	...	...	...	...
PERRY BARR.* 2,458. 43·7.	Cases	Under 5 5 and upwards	... 10	4	2	...	...	...	...	...	...	2	1	2	...	...	...	...	...
	Deaths	Under 5 5 and upwards	... 1	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...
	Cases treated in hos- pital.....	Under 5 5 and upwards	... 7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

URBAN—continued.

District, Population, Percentage of Cases treated in Hospital.		Smallpox.	Scarlatina.	Diphtheria (including Membranous Croup).	Typhus Fever.	Enteric Fever.	Continued Fever.	Relapsing Fever.	Puerperal Fever.	Cholera.	Erysipelas.	Phthisis.	Other Tubercu- lous Dis- eases.	Acute Polymyelitis.	Cerebro-spinal Meningitis.	Ophthalmia Neonatorum.	Measles.	Whooping Cough.
SHORT HEATH.* 4,084. Nil.	Cases	Under 5 5 and upwards	3 40	...	...	...	...	...	...	...	1 2	5	3	...	...	...	...	...
	Deaths	Under 5 5 and upwards	...	...	...	...	...	...	...	...	...	1	1	...	...	...	1 2	4 ...
	Cases treated in hos- pital.....	Under 5 5 and upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Cases	Under 5 5 and upwards	4 7	10 24	...	6	...	...	...	...	2 15	23	1	...	...	...	...	...
SMALLTHORNE.* 13,606. 80·3.	Deaths	Under 5 5 and upwards	...	2 ...	...	...	...	...	...	...	...	1 9	1 2	...	...	...	6 1	10 1
	Cases treated in hos- pital.....	Under 5 5 and upwards	11	24	...	6	...	...	...	...	...	...	...	...	...	...	...	...
	Cases	Under 5 5 and upwards	25 117	1 21	...	1	...	...	...	...	1 14	69	3 8	...	...	5	...	...
	Deaths	Under 5 5 and upwards	2 1	...	...	...	...	...	...	...	1 1	37	4 1	...	...	...	2 ...	4 ...
STAFFORD.* 20,760. 84·8.	Cases treated in hos- pital.....	Under 5 5 and upwards	124	15	...	1	...	...	...	...	...	...	...	...	...	...	...	...
	Cases	Under 5 5 and upwards	38	3	...	...	...	...	...	...	3	13	4	...	...	1	...	...
	Deaths	Under 5 5 and upwards	...	...	...	...	...	...	...	...	...	7	2 ...	...	...	...	...	3 ...
	Cases treated in hos- pital.....	Under 5 5 and upwards	37	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
STONE.* 5,223. 95·1.	Cases	Under 5 5 and upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Deaths	Under 5 5 and upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Cases treated in hos- pital.....	Under 5 5 and upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Cases	Under 5 5 and upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

URBAN—continued.

District, Population, Percentage of Cases treated in Hospital.		Smallpox.	Scarlatina.	Diphtheria (including Membranous Croup).	Typhus Fever.	Enteric Fever.	Continued Fever.	Relapsing Fever.	Puerperal Fever.	Cholera.	Erysipelas.	Phthisis.	Other Tuber- culous Dis- eases.	Acute Polymyelitis.	Cerebro-spinal Meningitis.	Ophthalmia Neonatorum.	Measles.	Whooping Cough.
WEDNESBURY.* 28,414. Nil.	Cases	Under 5 5 and upwards	5 15	4 10	...	3	...	...	6	...	3 14	5 62	8 7	1 ...	1 ...	19...	...	...
	Deaths	Under 5 5 and upwards	...	1 1	...	1	...	...	4	...	...	3 40	7 2	...	...	...	16 2	3 ...
	Cases treated in hos- pital.....	Under 5 5 and upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
WEDNESFIELD.* 6,784.	Cases	Under 5 5 and upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Deaths	Under 5 5 and upwards	...	...	No	...	data	available	...	...	...	...	...	...	...	...	...	...
	Cases treated in hos- pital.....	Under 5 5 and upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
WILLENHALL.* 18,880. Nil.	Cases	Under 5 5 and upwards	23 49	1 1	...	2	...	...	...	...	15 ...	1 57	3 5	...	...	...	...	...
	Deaths	Under 5 5 and upwards	1 ...	...	...	...	...	...	1	...	1 ...	...	3 3	...	...	...	16 1	44 2
	Cases treated in hos- pital.....	Under 5 5 and upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
WOLSTANTON.* 27,614. 86.3.	Cases	Under 5 5 and upwards	62 194	11 32	...	2	...	...	2	...	15 ...	25 ...	2 7	...	...	5...	...	...
	Deaths	Under 5 5 and upwards	2 ...	1 3	...	2	...	...	1	...	1 ...	22 ...	12 8	...	...	...	5 1	5 ...
	Cases treated in hos- pital.....	Under 5 5 and upwards	222	38	...	1	...	...	...	...	...	...	...	...	...	...	...	...

RURAL—continued.

District, Population, Percentage of Cases treated in Hospital.		Smallpox.	Scarlatina.	Diphtheria (including Membranous Croup)	Typhus Fever.	Enteric Fever.	Continued Fever.	Relapsing Fever.	Puerperal Fever.	Cholera.	Erysipelas.	Phthisis.	Other Tuber- culous Dis- eases.	Acute Polymyositis.	Cerebro-spinal Meningitis.	Ophthalmia Neonatorum.	Measles.	Whooping Cough.
KINGSWINFORD.* 20,446. 72·3.	Cases	Under 5 5 and upwards	13 40	5 7	...	...	...	...	...	...	8	1	2	...	...	3	...	...
	Deaths	Under 5 5 and upwards	...	3 1	...	...	...	...	...	...	...	1	3	...	...	...	4	1
	Cases treated in hos- pital.....	Under 5 5 and upwards	45	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
LEEK.* 15,641. 47·7.	Cases	Under 5 5 and upwards	13 34	8 35	...	...	...	...	...	...	1	15	3	...	1	1	...	...
	Deaths	Under 5 5 and upwards	...	3 6	...	...	...	...	...	...	1	14	5	...	...	...	7	4
	Cases treated in hos- pital.....	Under 5 5 and upwards	39	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...
LICHFIELD.* 23,626. 52·5.	Cases	Under 5 5 and upwards	9 26	7 35	...	...	...	...	2	...	5	26	3	...	1	1	...	...
	Deaths	Under 5 5 and upwards	...	1	...	...	...	...	1	...	...	12	1	...	...	...	8	3
	Cases treated in hos- pital.....	Under 5 5 and upwards	25	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...
MAYFIELD.* 3,957. Nil.	Cases	Under 5 5 and upwards	3 13	...	...	...	...	...	...	...	1	2	1	...	...	...	...	...
	Deaths	Under 5 5 and upwards	...	...	...	...	...	...	...	...	...	...	2	...	...	...	1	1
	Cases treated in hos- pital.....	Under 5 5 and upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

RURAL—continued.

District, Population, Percentage of Cases treated in Hospital.	Cases	Under 5..... 5 and upwards	Smallpox.	Scarlatina.	Diphtheria (including Membranous Croup).	Typhus Fever.	Enteric Fever.	Continued Fever.	Relapsing Fever.	Puerperal Fever.	Cholera.	Erysipelas.	Phthisis.	Other Tubercu- lous Dis- eases.	Acute Polymyositis.	Cerebro-spinal Meningitis.	Ophthalmia Neonatorum.	Measles.	Whooping Cough.
STONE.*	Cases	Under 5..... 5 and upwards	}	39	15	...	1	...	...	1	...	1	14	2	...	3	...	...	...
13,710.	Deaths	Under 5..... 5 and upwards		...	2	...	...	...	...	...	...	...	6	1	...	...	...	1	1
67.2.	Cases treated in hos- pital.....	Under 5..... 5 and upwards		}	29	7	...	1	...	...	...	...	...	...	...	...	...	...	...
TAMWORTH.*	Cases	Under 5..... 5 and upwards	...		2	...	...	...	...	...	...	...	2	14	1	1	...	...	...
5,124.	Deaths	Under 5..... 5 and upwards	...		...	...	...	...	...	...	...	...	9	2	2	...	...	2	1
100.0.	Cases treated in hos- pital.....	Under 5..... 5 and upwards	}	...	2	...	...	...	...	...	...	...	...	...	1	...	...	...
TUTBURY.*	Cases	Under 5..... 5 and upwards		9	1	...	...	...	...	...	3	...	2	10	2	...	...	...	...
8,490.	Deaths	Under 5..... 5 and upwards		...	7	...	...	...	...	...	1	...	...	8	2	...	...	2	1
79.5.	Cases treated in hos- pital.....	Under 5..... 5 and upwards	}	34	5	...	...	...	...	...	...	...	...	...	...	...	...	...
OTTOXETER.	Cases	Under 5..... 5 and upwards		1	4	...	...	1	...	...	...	...	1	6	1	...	...	...	...
7,383.	Deaths	Under 5..... 5 and upwards		...	18	...	...	1	...	...	...	...	...	1	2	...	...	...	1
Nil.	Cases treated in hos- pital.....	Under 5..... 5 and upwards	...	...	...	...	1	...	...	...	...	...	2	3	...	...	...	...
		Under 5..... 5 and upwards	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

