Contributors

Kirkby-in-Ashfield (England). Urban District Council.

Publication/Creation

1905

Persistent URL

https://wellcomecollection.org/works/htkhvy5q

License and attribution

You have permission to make copies of this work under a Creative Commons, Attribution license.

This licence permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited. See the Legal Code for further information.

Image source should be attributed as specified in the full catalogue record. If no source is given the image should be attributed to Wellcome Collection.



Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org KIRKBY-IN-ASHFIELD

Urban District Council.

Annual



For 1985,

BY

John Mackenzie,

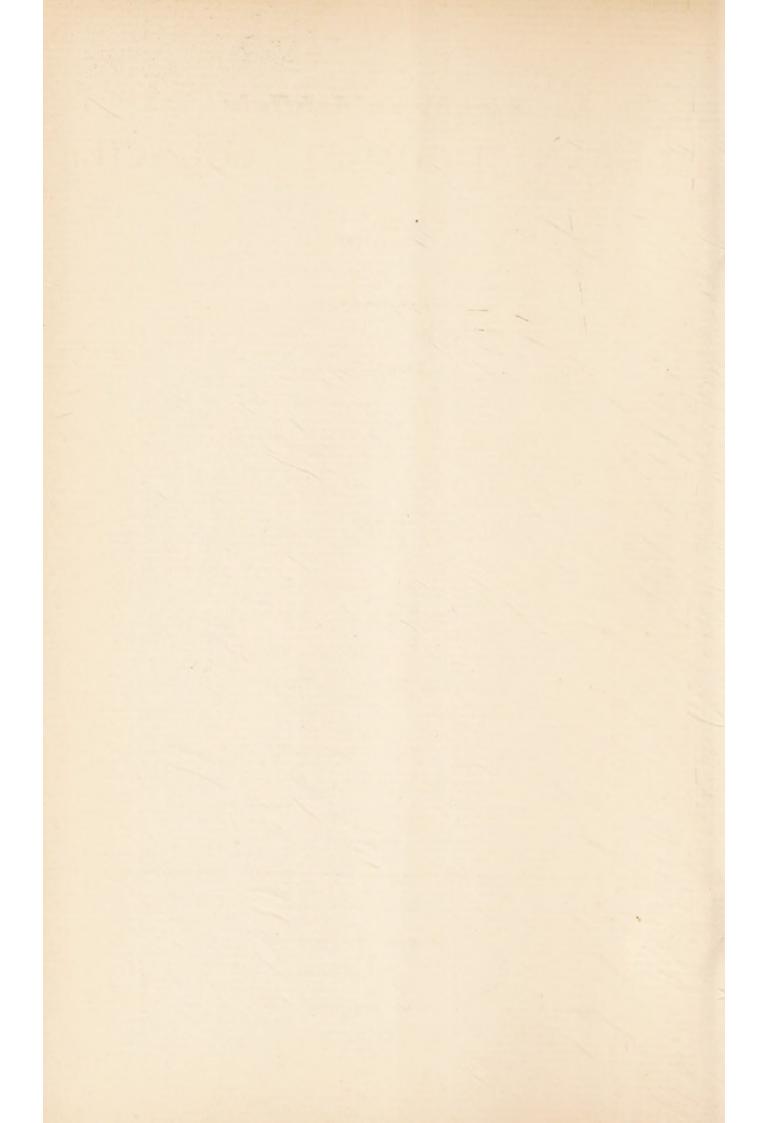
Medical Officer of Health.

EAST KIRKBY:

W. HOLLINGSWORTH, PRINTER, LOW MOOR ROAD.







Kirkby-in-Ashfield

URBAN DISTRICT COUNCIL.

Chairman :

W. H. HENSON, Esq., J.P.

Vice-Chairman :

JOSEPH SMITH, Esq.

Councillors:

EAST WARD. W. DAVISON J. G. SHACKLOCK JOHN MERCER ENOCH BOWEN WILLIAM BIRD WEST WARD. W. H. HENSON GEORGE HY. HUNT T. RILEY FRANK RAWSON HY. HOLT.

JOHN TATE JOSEPH SMITH SOUTH WARD. GEO. KNOWLES FRED. W. ABBOTT MOSES WEBSTER.

Clerk:

E. B. HIBBERT, Esq.

Medical Officer of Health:

JOHN MACKENZIE.

Sanitary Inspector:

WILLIAM MASSEY.

Surveyor :

W. DODSLEY.

Collector of General and District Rates:

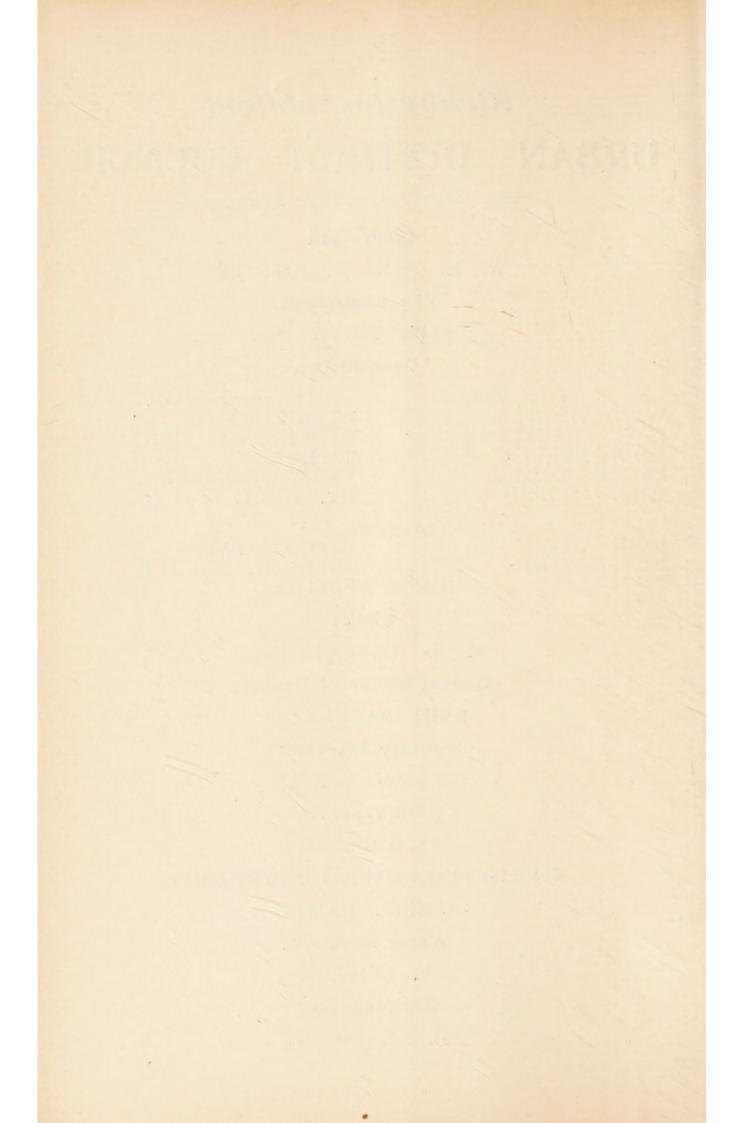
SAMUEL UNWIN.

Water Manager :

L. LEIVERS.

Gas Manager :

H. SHADBOLT.





Digitized by the Internet Archive in 2017 with funding from Wellcome Library

https://archive.org/details/b29537034

REPORT.

To the Chairman and Members of the Kirkby-in-Ashfield Urban District Council.

GENTLEMEN,

I beg to submit the Annual Report on the Health and Sanitary circumstances of your district.

This being the toth Annual Report since the Parish was A retrospect of created an Urban District, it seems to me a suitable occasion for the last 10 years retrospect. To review the past with the knowledge acquired from experience is a wise step in sanitary work; and however much may have been accomplished will show what still remains to be done.

May I preface this review by an expression of unfeigned Mr. Hibbert's sorrow at the sudden death of your Clerk, Mr, G. H. Hibbert, to'

death.

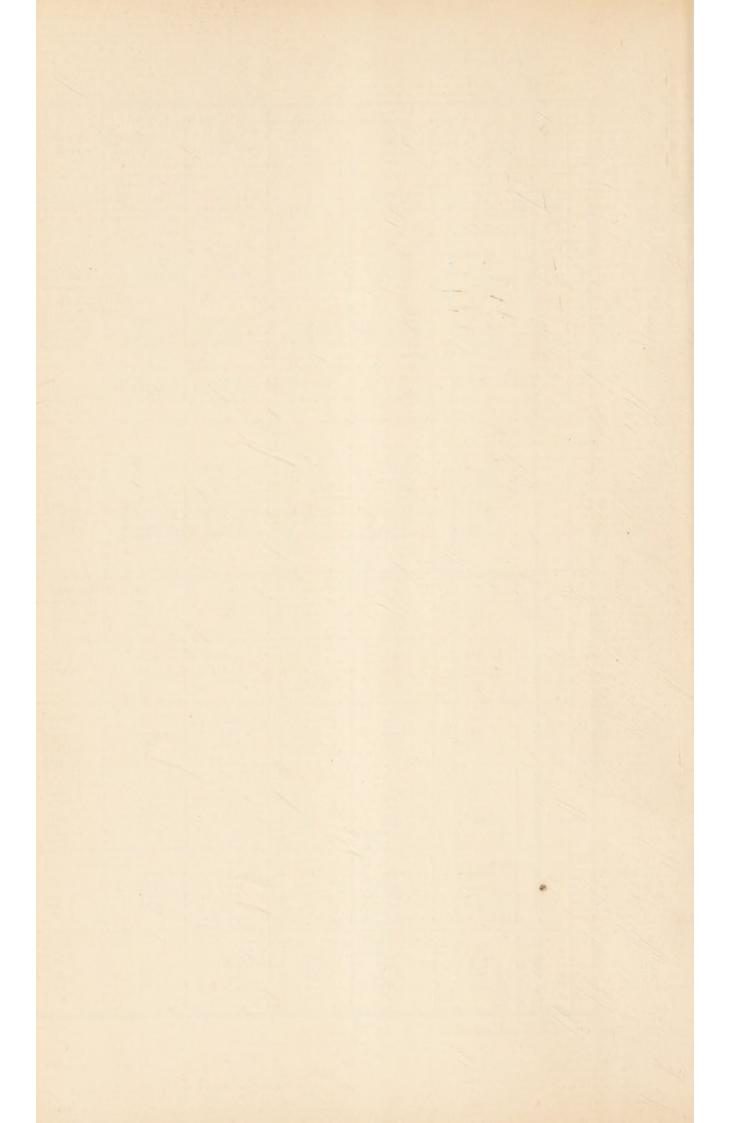


		WHO	LE DISTRI	ст.		LOCALITIES OR WARDS.					
Years.	Population.	Number Notified.	Rate per 1000 Notified.	Deaths.	per 1000 including	De'th r'te per 1000 not includ Diarrhœa	Numb'rs notified in Wards.		Population	Deaths,	Zymotic death rate including Diarrhœa.
1896	8520	78	9.1	42	4.9	4. I	35 25 18	East Ward West ,, South ,,	4000 2194 2326	20 8 14	5.0 3.6 6.0
1897	8898	84	9.4	18	2.0	1.3	39 21 24	East Ward West " South "	3545 2300 3200	7 4 7	1.9 1.7 2.1
1898	9277	108	11.6	30	3.3	1.6	58 23 27	East Ward West " South "	3540 2620 3415	13 4 13	3.6 1.5 3.8
1899	9655	223	23.0	33	3.4	2.1	88 101 34	East Ward West " South "	3590 3060 3515	10 15 8	2.7 4.9 2.2
1900	10034	65	6.4	17	1.8	0.6	19 24 22	East Ward West " South "	3705 3225 3610	9 3 5	2.4 0.9 1.3
1901	10412	43	4.I	24	2.3	1.3	16 25 2	East Ward West " South "	3872 3173 3273	10 9 5	2.5 2.8 1.5
1902	11495	42	3.6	24	2.0	1.9	15 15 12	East Ward West " South "	4548 3444 3549	9 13 2	1.9 3.7 0.5
1903	12660	94	7.4	14	I.I	0.7	43 26 25	East Ward West ,, South ,,	5325 3705 3630	11 0 3	2.0 0 0.8
1904	13755	160	11.6	25	1.8	0.8	42 30 38	East Ward West ,, South ,,	5965 4020 3770	13 4 8	2.1 0.9 . 2.1
1905	14465	161	11.1	34	2.3	1.7	44 72 45	East Ward West " South "	6335 4260 3870	13 12 9	2.0 2.8 2.3

Cases of Infectious Diseases notified during the last 10 years with (a) rate per 1000 notified; (b) Zymotic death-rate including Diarrhœa; (c) Zymotic death-rate not including Diarrhœa.



-	1 2 1		1									113.7. 130.4 146.3
	Infant death rate	184.6 170.5 176.9	118.0 88.6 198.5	184.7 87.9 160.3	127.7 194.4 112.9	243.0 214.9 132.7	147.9 200.0 162.9	137.2 237.0 187.9	113.2 83.1 138.6	163.8 180.3 155.2	rtadity.	
	Death rate at all ages.	19.3 18.2 18.1	16.3 10.4 14.6	15.8 13.3 14.3	16.1 18.3 12.5	23.7 20.4 9.9	15.3 17.3 15.2	14.3 17.7 14.1	10.0 14.0 12.3	11.5 11.6 15.6	Infant Mortality. 128 140 132 113	9.7 10.5 12.1
WARD.	Birth Rate.	45.2 35.1 43.1	50.2 34.3 44.0	44-3 34-7 31-0	50.1 35.2 35.2	48.8 33.1 31.3	43.6 39.3 41.2	45.5 37.4 34.8	39.8 39.4 37.8	39.9 30.3 42.7		33.3 37.7 31.8
HACH V	Population	3420 2100 3000	3545 2300 3200	3540 2620 3415	3590 3060 3515	3705 3225 3610	3872 3173 3273	4548 3444 3549	5325 3705 3630	5965 4020 3770	ison :	6335 4260 3870
FOR H	Houses, Pc	684 420 600	709 460 640	708 524 683	718 612 703	741 645 722	756 625 674 3	906 686 707 3	1065 5 741 3 726 3	193 5 804 4 754 3	npar	1267 852 774
		East Ward West " South "	East Ward West " South "	East Ward West ,, South ,,	East Ward West " South "	East Ward West " South "	East Ward West " South "	East W a rd West ", South ",	East Ward I West "South "	East Ward I West " South "	Wales, 1905, for co Death rate. 15.2 15.7 14.4	East Ward West " South "
-	Infant Death Rate.	186.9	140.7	152.5	140.7	204.4	167.8	173.8	1.111	165.0	and	127.3
	Death rate at all ages.	18.5	14.4	1 5.0	16.4	18.9	15.9	15.3	12.1	12.6	of England Birth rate. 27.2 28.2 26.9 26.3	1.11
DISTRICT.	Birth rate.	39.5	44.7	38.1	42.6	39.9	41.2	40.5	39.1	37.8	Statistics	34.2
WHOLE DIST	Population.	8520	8898	6277	9655	10034	10412	11495	12660	13755	al	14465 3
W	Mouses.	1704	6081	1915	2033	2108	2177	2299	2532	2751	Vir England and Wales 76 Gireat Towns 141 Smaller Towns England and Wales less 217 Towns.	2 ⁸⁹³ I
	Years.	1896	1897	1898	1899	1900	1061	1902	1903	1904	Engle 76 G Engle Engle	1905 26



It will be seen that the Birth-rate in 1896 was 39.5, that is 391 babies were born for every 1,000 of the population living at Midsummer of that year. In 1897 the Birth-rate is 44.7, that is a gain over 1896 of 5.2, but in 1898 we find a loss of 1.4 as compared with 1896. In 1899 there is an increase of 3.1, but in 1900 the rate is practically the same as 1896.

A further comparison of the Birth-rate for each year in the next five years shows a steady decline; thus in 1901 the rate is 41.2 per 1.000, but 1902 is less by .8, and 1903 2.1 less, whilst years 1904 and 1905 show the big drops of 3.4 and 7.0, and lastly there is a difference of 5.3 between 1896 and 1905, that is to say in 1905 five and one-third fewer children were born to every 1,000 of the population than in 1896, when the parish was made an Urban District, so that we are unable to claim that local self-government increases the birth-rate. We shall see by further study of this table where local selfgovernment and sanitary improvements affect the increase of population by a very great reduction in the general Death-rate.

It must be borne in mind that taking this country as a Natural increase whole, independent of local fluctuations, our population is almost entirely derived from the excess of births over deathsnatural increase-this being so the Death-rate becomes a leading factor in the maintenance of a healthy equilibrium between the national gains and losses.

Again taking the general Death-rate, and for the sake of simplicity dividing the decade into two periods of five years, death rate at all for the first period, 1896-1900, we find in 1896 a Death-rate at all ages of 18.5 per 1,000; 1897 is less by 4.1, 1898 by 3.5, and 1899 by 2.1, whilst in 1900 there is an increase in the rate of 0.4.

In the second period, 1901-1905, a steady decline is noticeable. Thus in 1901 the rate is 15.9 per 1,000, 1902 is less by 0.6, and again years 1903-1904 less by 3.8 and 3.3, whilst in 1905 there is a considerable drop of 4.8. That is to say, taking 1901 rate as our standard of comparison, we find a reduction of an average of 3.1. Practically, the Death-rate of 1901 is reduced by one-fifth, whilst the average reduction on the 1896 Deathrate for the first period is 2.3, or one-eighth.

1896 Birthrate compared with 1897-8-9.

1901 Birthrate compared with 1902-3-4.

excess of births over deaths.

Reduction in the ages.

Turning now to the other great spending department, Infant Mortality, and assuming for the sake of illustrating the figures that 1,000 babies were born in the District in 1896, then 186.9 died before they were one year old, and on the same basis each succeeding year, of course, taking 1896 as our standard of comparison, we reduce the Infant Death-rate thus :—

Reduction in the Infant deathrate

1897 by 46.2	per 1,000 births	5. ~
1898 ,, 34.4	,,	
1899 ,, 46.2	,,	
1900 increas	ed by 17.5 per	1,000 births.
1901 reduced	d by 19.1 per 1	,000 births.
1902 ,,	13.	,,
1903 ,,	75.8	"
1904 ,,	21.9	,,
1905 ,,	59.6	"

This is the expression of stating the reduction of our Infant Mortality in decimals per 1,000 births, but what actually took place was as follows :---

337 Infants were born in 1896, of whom 63 died under one year.

398	,,	1897	,,	56	,,
354	,,	1898	,,	54	,,
412	,,	1899	,,	58	,,
401	. ,,	1900	,,	82	,,
429	,,	1901	,,	72	,,
466	,,	1902	,,	81	,,
495	,,	1903	,,	55	,,
521	,,	1904	,,	86	,,
495	,,	1905	,,	63	,,

We further see that during the first five years 1902 Infants were born alive, of whom 313 died under one year of age, equivalent to an average Annual Mortality of 164.5 per 1,000 births, but during the last five years 2,406 were born alive, of whom 357 died under one year, equal to 148.3 per 1,000 births.

Continuing our study of the same figures, Birth-rate, Deathrate, and Infant Mortality for the various Wards or localities, we find the same general results, that is as Sanitary improvements advance a declining Birth-rate pari passu with a declining Death-rate at all ages, and also a declining Infant Death-rate. Taking the first five years, when the new Sanitary Authority had to grapple with large schemes of Sewerage and Water Supply, when again Scavenging was done by the neighbouring farmers, and often not done for long intervals, Pail Closets and Water Closets not yet introduced, and many other details of Sanitary organization wanting. In the nature of things time must be allowed for such improvements to affect our Vital Statistics and enable us to state in decimals the benefit to the Public Health. We should also expect to find if one Ward received earlier attention in the matter of sanitation than the others that the same Ward should show corresponding good results. In comparing the Ward Statistics we find for the first five years but little difference, but during the last five years, 1901-1905, the East Ward leads with a distinct decrease in the Death-rate at all ages and Infant Death-rate thus :--

Death-rate a	at all Ages.	Infant Death-rate.
1901.—East Ward	15.3	147.9
West Ward	17.3	200.0
South Ward	15.2	162.9
1902.—East Ward	14.3	137.2
West Ward	17.7	217.0
South Ward	14.1	187.9
1903.—East Ward	10.0	113.2
West Ward	14.0	82.1
South Ward	12.3	138.6
1904.—East Ward	11.5	163.8
West Ward	11.6	180.3
South Ward	15.6	155.2
1905.—East Ward	9.7	113.7
West Ward	10.5	130.4
South Ward	12.1	146.3

It is well-known that East Kirkby, or the East Ward, the business centre of the district, is in advance of the other Wards, not only as regards the early adoption of sanitary measures, but also their extent. Here we had first introduced such improvements as scavenging done by the Council's own men and horses, new streets sewered, ventilated, and flushed, old streets kerbed, paved, metalled, and channelled, the early adoption of the lighting of streets, asphalting of backyards, the use of pail closets and water closets instead of vaulted midden privies. The effect of Sanitary Improvement.

Death rate less in the East Ward and why ?

The result has been, as already pointed out, a reduction in the Death-rate in the East Ward as compared with the West and South Wards.

Lastly, the Zymotic incidence-attack-rate and death-ratepresents the same uniformity to the general principles, i.e., improvements will take time to effect a change in the Vital Statistics of a district.

Thus years 1896-1900 the total number of Infectious cases notified were 557, a yearly average of 111.4, whereas 1901-1905 total number 500 cases, average 100.0. Again the Zymotic Death-rate

(a)	Including	g Diarrl	ıœa.	(b)	Not	Including	Diarrhœa.
	1896-1900	average	3.08			1.94	
	1901-1905	,,	1.9			1.48	

In an Appendix to the Report will be found Tables dealing Tables prepared with :--

- (a) L.G.B. (b) County
- Councii

for

- (c) Home Office
- (d) Rainfall_
- (a) Administration of Factory and Workshops Act, 1901.
- (b) Houses condemned as unfit for human habitation under the Housing of the Working Classes Act, 1890, Sec. 32.
- (c) Summary of Sanitary Work done in the Inspector of Nuisances Department.
- (d) Tables I., II., III., IV., and V., prepared for the Local Government Board and County Council.

Vital Statistics for 1905.

One hundred and sixty-two Deaths were registered during the year, equivalent to an Annual Mortality of 11.1 per 1,000 of the population, occurring Quarterly as follows :-

	First Quarter	Males. 29	Females. 31	
	Second Quarter	17	17	
Deaths at all	Third Quarter	20	16	
ages.	Fourth Quarter	20	12	
	Totals 1905	86	76	
	Totals 1904	101	74	
	Totals 1903	69	85	
	Totals 1902	90	86	

Table II.

	AREA STREET		-	CONTRACTOR ADDRESS SALARD		
			East Ward	West Ward	South Ward	
1st Quarte	er		23	18	19	
2nd ,,			12	II	II	Deaths
3rd ,,			15	II	IO	occuring Quarterly
4th ,,			14	IO	8	in Wards,
	Totals	1905	64	50	48	
	"	1904	69	47	59	
	,,	1903	57	52	45	
	,,	1902	65	61	50	
	"	1901	61	55	50	
	,,	1900	88	66	36	
	,,	1899	58	56	45	
	"	1898	56	35	49	
	"	1897	58	24	47	

Table showing Deaths in Wards :---

DEATH-RATE FOR THE LAST TEN YEARS.

1896	 18.5 per	r 1,000 of the	Population.	Corrected Death-rate
1897	 14.7	"		according to Census 1901
1898	 15.0	"	,,	
1899	 16.4	,,	,,	
1900	 18.9	,,	,,	
1901	 15.9	,,	"	
1902	 15.2	,,	**	
1903	 12.1	,,	"	
1904	 12.6	,,		
1905	 11.1	"	"	

8

Four hundred and ninety-five Births were registered, equivalent to an Annual Birth-rate of 34.2 per 1,000 of the population, occurring Quarterly as follows :---

	The Local	Males.	Females.	
Birthrate.	First Quarter	71	65	
	Second Quarter	61	66	
	Third Quarter	66	56	
	Fourth Quarter	61	49	
	Totals 1905	259	236	
	Totals 1904	281	240	
	Totals 1903	244	251	-
	Totals 1902	239	227	
	Totals 1901	214	215	
	Totals 1900	202	199	
	Totals 1899	219	193	
	Totals 1898	199	155	
	Totals 1897	190	208	

Table III.

Showing Births in each Ward :--

				East Ward.	West Ward.	South Ward
1st Q	uart	er		64	49 [°]	23
2nd	,,			56	31	40
3rd	,,			45	43.	34
4th	,,			46	38	26
		Totals	1905	211	161	123
		,,	1904	238	122	161
		"	1903	212	146	137
		,,	1902	204	129	133
		"	1901	169	125	135
		"	1900	181	107	113
		,,	1899	180	108	124
		"	1898	156	91	106
		,,	1897	178	79	141

Births Occurring Quarterly in Wards.

1896	 39.5 p	er 1,000.	Comparative Birthrate
1897	 44.7	,,	corrected according to Census 1901.
1898	 38.1	"	
1899	 , 42.6	"	
1900	 39.9	,,	
1901	 41.2	"	
1902	 40.4	"	
1903	 39.1		
1904	 37.8	.,	
1905	 34.2	,,	

BIRTH-RATE FOR THE LAST TEN YEARS.

Sixty-three Deaths were registered under one year of age, equivalent to an Annual Mortality of 127.2 per 1,000 Births, 385.2 per 1,000 total Deaths, and 4.3 per 1,000 of the Population, occurring Quarterly as follows :--

	Males.	Females.	Infant
First Quarter	12	10	Mortality.
Second Quarter	·· 4	4	
Third Quarter	12	9	
Fourth Quarter	7	5	
Totals 1905	35	28	
Totals 1904	54	32	

Table IV.

			East Ward.	West Ward.	South Wa-d
	ıst Quarter		9	6	7
	2nd ,,		2	3	3
	3rd ".		8	- 8	5
Ward Infant Mortality.	4th "		5	4	3
aortanty.	ſ	'otals 1005	. 24	21	18
		,, 1904	. 39	22	25
		" 1903	. 24	12	19
		" 1902	. 28	28	25
		" 1901	. 25	25	22
		,, 1900	. 44	23	15
		" 1899	. 23 ,	21	14
		" 1898		8	17
		" 1897		7	28
+		" 1896		12	16
T. S. et desthu			TE FOR TI		
Infant deathr for the last 10 years.)	1896 1897	140.7	er 1,000 Birt	
		1898	159.5	"	
		1899	140.7	,,	
		1900	904.4	,,	
		1901	. 167.8	"	
			173.8	,,	
		1902 .	110.0		
		1009	111.1	,,	
		1903 .			

Showing Deaths under one year of age occurring quarterly in Wards :---

Average, 1896-1905, 156.9.

Table V.

Notifiable Zymotic Diseases occurring in each month :---

			Scarlet fever	Diptheria	Typhoid Fever	Puerperal Fever	Erysipelas	Smallpox	Membranons Croup	Chickenpox	Typhus Fever	Zymotic Disease
January February March April May June July August September October November	···· ···· ···· ····	···· ··· ··· ···	6 5 3 5 3	I 3 I I I I	2 2 5 4 7 2 1 2 3 5 3	I	2 2 3 1 1 1 2 2 1 3 1					occnr- ring in each Month.
December			11	1			I					
	Totals	1905	92	8	38	2	20					
	,,	1904	79	6	18	3	12	3	I	38		
	,,	1903	41	4	26	I	17	5				
	"	1902	17		16	3	4					
	,,	1901	II	2	19	2	8	1				
	,,	1900	23	9	18		15					
	"	1899	163	19	22	5	13		I			
	"	1898	65	5	23		14		I	~		
	,,	1897	27	2	37		II		6		I	
	,,	1896	12	7	12	2	3					

Table VII.

Showing	Notifiable Zymotic Diseases	occurring	in
	each Ward :		

Notifiable Zymotic Diseases in Wards.

		East Ward	West Ward	South Ward
Diptheria		4	. 4	
Erysipelas		. 6	5	9
Scarlet Fever		19	- 57	16
Typhoid Fever		15	5	19
Puerperal Fever			I	I
Totals	1905	44	72	• 45
"	1904	42	30	88
"	1903	43	26	25
"	1902	15	15	. 12
"	· 1901	16	25	2
	1900	19	24	22
"	1899	88	101	34
"	1898	58	23	27
,,	1897	39	2 1	24

				140				
T	-	1	1	-	v	×.		
Т	а	D	I		Y	1		
-	_		-	-		-	_	-

Showing deaths from Zymotic Diseases occurring in each month :---

		Scarlet fever	Diphtheria	Typhoid Fever	Typhus Fever	Zymotic Enteritis	Puerperal Fever	Whooping Cough	Erysipelas	Measles	Influenza.
January February March April June July ? August September October November December						2 I 4 I		2 I I I 2		4 1 8 1 1	3
Totals	1905					8		7	•	16	3
""	1904		3	3		13	2	3		I	
	1903	I	I	6		4	-		2		
53	1902			2		I	2	6		13	
13	1901			I		10	2	3	2	6	
33	1900	2	I			10	I	3			
"	1899	5	3	4	-	12	2	I		6	
>>	1898	3		3		15		4	I	4	
"	1897	I	I	4	I	6		5	22		
,,,	1896		2	4		7		2		5	

Table VIII.

		East Ward.	West Ward.	South Wa-d.
	Influenza	2		I
	Measles	6	5	5
	Whooping Cough	2	4	I
Deaths from Zymotic	Diptheria	-Le ching	T	
Diseases in Wards.	Zymotic Enteritis	3	3	2
	Totals 1005	13	12	9
	" 1904 …	13	4	8
	" 1903 …	II		3
	" 1902 …	9	13	2
	" 1901 …	IO	9	5
	,, 1900	9	3	5
	" 1899	IO	15	8
	" 1898	13	4	13
	" 1897 …	7	4	7

Showing Deaths from Zymotic Diseases occurring in each Ward :---

Zymotic Death-rate for the last 10 years.

1896		4.I	per 1,000	of the	Population.
1897		1.3	,,		,,
1898		1.6	"		"
1899		2.1			"
1900		o '6	,,		"
1901		1. 3	,,		,,
1902		1.9	,,		"
1903		0.7			"
1904		0.8	,,		"
1905		1.7	,,		
-	Av	erage	years 1896-	-1905	1.6

Comparative Zymotic Death-rate corrected according to Consus 1901.

Not including Diarrhœa and Dysentery.

66

INFANT MORTALITY.

The Infant Death-rate this year, 127.2 per 1,000 Births, is Infant the lowest yet recorded save 1903, when it was 111.1.

The figures in Infant Mortality are always reliable, since they are based on the total Births and are not subject to any error due to fluctuations in the population as the general Death-rate might possibly be.

Again, the Infant is of all human beings the most sensitive to environment, air-space, food and clothing, so that it can be safely asserted that no community is in a flourishing condition whose Infant Mortality is abnormally high. No subject can better illustrate the influence of domestic relations on the life of the off-spring than illegitimacy.

Of the 495 births registered, 13 were illegitimate; five of Illegitimacy in these died before attaining one year of age, equivalent to a Death-rate. mortality of 384.6 per 1,000 Births, whereas the total Death-rate for legitimate children is only 120.3. That is to say, for every child born in wedlock dying under one year three illegitimate die, and the proportion is often even greater.

For the Infant of tender years the first condition is a healthy home; in slum dwellings, close alleys and contracted backyards, littered with pens and boxes for all sorts of animals, even in semi-rural districts like ours, the child is pale and stunted with flabby muscles and decalcified bones.

This subject of Infant Mortality is of first importance, and Ages and causes everything calculated to shed light on it is of great value. Let us look at it then under two headings :--(1) Ages at which they died, (2) Causes of death.

(1) Five died under the age of one week, three under two weeks, three under three weeks, and three under four weeks; that is to say 22 per cent. died before they were a month old. Practically half this number died from Premature Birth; antenatal conditions of a complex nature in which the mode of life of the parents and early marriages play an important part, predispose an offspring prematurely born, physiologically imperfectly developed, wanting in stamina and vital resistance.

One often wonders, in studying these Infants, as the vital powers show signs of early exhaustion, what resources cviilization has to preserve them. The odd ones that survive this early struggle for existence, often remain weaklings throughout and can scarcely be said to be an acquisition to the race.

Infant Deaths.

relation to

Mortality.

But if this is so with reference to the prematures and maldeveloped a far different conclusion must be arrived at in the case of the great majority of Infants dying under one year of age. Of the remaining 49, one died under two months, six under three months, four under four months, five under five months, eight under six months, five under seven months, six under eight months, four under nine months, five under ten months, one under eleven months, and four under twelve months.

Diet in relation to Infant Death-rate.

CAUSES :-- (1) Infant Feeding .-- Perhaps no cause contributes more to Infant Mortality than improper feeding. Careful enquiry into the method of feeding each of the 63 Infants who died this year under one year of age has elicited the following facts :- Four died within 24 hours of birth, so that in their case diet could scarcely be considered a factor in the causation of their death.

Of the remaining 59, 19 were exclusively fed on their mother's milk, and 40 were hand fed. This gives 32.2 per cent. for the breast fed, against 67.9 per cent. for the hand fed.

Then again, in the 63 families represented here, the total Births were found to be 229, of whom 86 died under one year of age, yielding an Infant Death-rate of 375.5 per 1,000 Births. This, of course, is not an annual rate.

Further, in twenty families the total Births were 132, an death-rate in certain families. average of 6.6, and the total Deaths under one year of age were 49, 371.2 per 1,000 Births; but in the thirteen families with the highest Birth-rate the Infant Mortality was found to be alarmingly high, equivalent to 600 per 1,000. This distinctly shows that in certain families, over a long series of years, the Infant Death-rate is high.

> Another interesting fact brought out by the inquiry was, that of the 63 mothers, 13 were young wives who lost their first child, and five unmarried women the mothers of illegitimate children, that is 28.5 per cent. were the first and only babies, so that small families contribute to Infant Mortality as well as large ones.

The influence of sanitation on

Migh Infant

(2) Sanitary Surroundings .- In damp, dirty yards, where Infant Mortality young Infants of tender years share with dogs, hens, pigeons, and rabbits as playground, the high-walled, dust-laden and

vegetable strewen Courts, Infant Mortality will always be In this connection the value of general · abnormally high. Sanitary Improvements can hardly be over-estimated. As bearing on the point, I beg again to refer to the East Ward Infant Death-rate figures.

East Kirkby is more town like in the general formation of its Streets and density of Population than any of the other Wards. Here, too, one finds the casual labourer and out of work gravitating, but Sanitary measures were early carried out in the East Ward, in particular the early advent of the Council's own Scavengers with Carts, Spades and Shovels. The results are obvious in the following Statistics :--

1901.—East Ward	147.9 pe	r 1,000 Births.	
West Ward	200.0	"	Compara Infant V
South Ward	162.9	,,	Statistics Wards.
1902East Ward	137.2	"	
West Ward	217.0	"	
South Ward	187.9	,,	
1903.—East Ward	113.2	"	
West Ward	82.1	"	
South Ward	138.6	,,	
1904.—East Ward	163.8	,,	
West Ward	180.3	,,	
South Ward	155.2	,,	
1905.—East Ward	113.7	"	
West Ward	130.4	**	
· South Ward	146.3	"	

(3) Epidemics which will at all times play an important role in Infant Mortality; but even in epidemics we see the weaklings, ill-fed, ill-housed, and ill-clothed, often the offspring of vicious, ignorant and careless parents, swept away when better favoured children of the same age weather the storm. Still many more of the children of the poor would recover under more favourable conditions. In the crisis of acute diseases, poverty and ignorance terribly weigh them down.

How often one sees one or two young children with The value of the Pneumonia, Measles, or Whooping Cough, first huddled together in the corner of a cold cheerless kitchen, then when night comes the sick ones are bundled off to share a bed with two or three others-as yet healthy-in a cold, damp-walled

careful mother in comparison with the careless in the treatment of infants.

Epidemics.

tive lital as in room, where the jerry builder has arranged that the winter rains will find free access along the angles of low pitched roofs and badly cemented walls.

During the long hours of the night none attends to the dying infant and sustains his exhausted powers by frequent feeding, or sees that in his feverish tossing he does not get uncovered and chilled; not till daylight next morning reveals the livid look and laboured breathing are the parents alarmed. A doctor is sent for in great haste, and then they consider with a good conscience that their whole duty has been fulfilled.

How different with the intelligent mother in equally poor circumstances, who at a glance quickly sees that the baby is ill. Everything is instantly thrown aside that the child may be properly attended to. The best bedroom in the house is selected, soon trimmed, aired and heated, and medical aid sent for. Many such mothers are to be found among the working classes of this district, who despite the lack of training are nurses by nature.

Measles.

and Sunday Schools.

Measles accounts for seven deaths under one year of age. A severe epidemic of Measles passed over the district in the early part of the year. As always happens, the less robust of the Infants attacked soon succumbed to Pneumonic com-Closing of Day plications. The West Ward was first attached, and the Elementary Schools were closed from December 10th, 1904, to January 8th, 1905. This outbreak did not extend to either of the other Wards, but early in March the South Ward experienced a similar outbreak, derived from a neighbouring parish, and again the Kirkby Woodhouse Elementary Schools had to be closed from February 24th to March 17th. The gradual extension of the epidemic to the East Ward necessitated the closing of the East Kirkby Infant Schools from March 13th to 31st.

> By the courtesy of their Superintendents, the various Sunday Schools were simultaneously closed, which step aided not a little in stamping out the epidemic.

Whooping Cough.

(5) Whooping Cough.-Four Infants under one year of age died from this disease, which has been prevalent in scattered cases throughout the district for the whole of the year.

Bronchitis, Pneumonia, and other diseases of the Respiratory respiratory organs .-- Twelve deaths, mostly in the first and Diseases. last quarters of the year.

It has often been pointed out in these Reports that young children are subject to very great danger, especially after convalescence from acute diseases, by our absurd and irrational way of dressing them with their arms and the most vulnerable parts of their bodies absolutely exposed.

Zymotic Diarrhœa.-Eight deaths, three in the East Infantile Ward, three in the West, and two in the South. Diarrhea, the Diarrhea. most fatal of diseases for the hand fed infant, is an infectious disorder prevalent in Summer and Autumn. There are at least two conditions which if we could obtain would greatly reduce the number of deaths from Diarrhoea. The first of these is a suggessions for pure milk supply, with an improved means of storage in the Infantile homes of the working classes. The second, easily accomplished, the asphalting or paving of yard; and courts.

I am afraid that in Kirkby we are far removed in thought as well as practice from the idea of Creches and Infant Incubators, but there is surely nothing extreme in suggesting to you the great utility for the lessening of Infant Mortality of (1) Municipal Milk Depots, now so common in many of our large towns. This would be an incalculable boon in Summer and Autumn; (2) a Children's Hospital Trained Nurse, whose Hospital trained duty would consist of visiting and superintending the rearing of Infants in health and disease.

Such a Nurse would, of course, give her time exclusively to improving the home life of young infants, food, clothing, and above all the education in the duties of motherhood of the scores of women here, mothers of lusty and healthy born children; of whom, alas, one can predict with every assurance that by the end of a year not a few will have succumbed to improper feeding or exposure.

The Children's Nurse should be in constant touch with the less robust, and also the babies of careless and indifferent mothers from their birth.

Precious opportunity for doing good is lost if she is only called in by the parents when the child has already been ill perhaps for several days.

Information regarding births could be easily obtained from the now well organised Certified Midwives and Medical Practitioners of the District.

decreasing Diarrhœa.

A Children's Nurse.

ZYMOTIC DISEASES.

Scarlet Fever.

SCARLET FEVER.-This disease has been more or less prevalent in scattered cases throughout the district during the whole year, first in the South Ward, then in the East Ward, and lastly in a serious outbreak at Mayfield district of the West Ward. In all, 92 cases were notified, against 79 in 1904.

The outbreat at Mayfield, necessitating the exclusion of all the children from that part of the parish from School from October 1st till October 23rd, 1905, requires a more detailed description.

Mayfield was free from Scarlatina, when early in August a Origin of the outbreak traced. family came from Sutton to live at 8, Mayfield Street, with three of the children actually suffering from the infection. The cases were mild, the parents obstinate, and the greatest difficulty was experienced in inducing them to practice even the semblance of isolation.

Then, too, the habits of the people lend themselves to the spread tion through the of infection, visiting each other absolutely indifferent to the indifference of danger of contracting this or any other disease.

> As the cases at first were very mild, the parents could not be convinced of the necessity for isolation. Not infrequently have I found, in visiting some of their houses, two or three young children as yet free from the infection sent by the next door neighbour to keep company with the youngsters who were isolated and kept in a room by themselves because suffering from Scarlet Fever.

> In a very short time every family in Mayfield with young children had some one ill. Many of the adult members were attacked with virulent sore throats. As the number of Scarlet Fever cases increased the infection underwent a marked change of type, from very mild to severe, with throat angina, and three well developed cases of Post Scarlutina-Diptheria.

> Contrary to anticipation, this sharp outbreak cleared up without a single death and but a few trivial sequelae.

Number of cases in 10 years.

In ten years 531 cases of Scarlet Fever were notified, with of Scarlet Fever 12 deaths (see Tables V. and VI.), giving a case mortality of 2.2 per cent., an exceptionally low mortality, lower than the figures of any Scarlet Fever Hospital I have seen published.

Spread of infeccarelessness and the people.

Considerable doubt has been thrown lately on the usefulness of Scarlet Fever Hospitals. Statistics show that even in Value of Isolapoor localities children can be treated at home with less risk and a lower death roll than at large Isolation Hospitals, and further that the removal of cases to Hospital increases rather than diminishes the number subsequently attacked.

That a community like ours will be free from Scarlatina for any length of time is very doubtful. Just think, a large working class population with frequent changes, one family going, another coming, almost a daily occurrence. Then again, Difficulty of during our feasts and wakes whole country sides migrate and stamping out Scarlet Fever. over-run the place for a week on end. Strange people from all the parishes in the next two or three counties, hawkers and showmen with their retinue and innumerable vans, carrying in their trail Zymotic Infection from almost every great town in England. And of course we, as a polite people, return their visits.

Witness, for instance, our Railway Stations on the occasion of the opening days of the Mansfield, Sutton, and Pinxton Wakes, to say nothing of the great carnival, Nottingham Goose Have we not beside all this our time honoured Socialgatherings Fair. Demonstrations, Processions, and Workmen's Excursions, Railway Carriages and Public-Houses, with our Elementary Schools as concentration camps, where the young and highly susceptible part of the community must of necessity come together as if it were to focus this miscellaneous collection of infected germs.

This also largely applies to most of the Infectious Disorders, but specially to Scarlet Fever, Whooping Cough, Measles, and Influenza.

DIPHTHERIA.-Eight cases were notified, four in the East Ward and four in the West Ward. No deaths.

The first case notified in the East Ward was imported. The other three in this Ward occurred in young children under school age, with sanitary surroundings above the average. In the West Ward three of the cases were Post Scarlatinal, occurring during the Mayfield outbreak, and the fourth at a house in Church Street, where the insanitary condition of the yard and house drainage was to all appearance the cause. The circumstances regarding this house have been duly reported to you through the Sanitary Inspector, and is being seen to.

tion Hospital doubtful.

and Schools in relation to infection.

Diptheria in Wards.

Typhoid Fever in Wards.

Bye-laws

disregarded.

TYPHOID FEVER .- Thirty-nine cases were notified and no deaths, against 18 in 1904 with three deaths. The cases were distributed in Wards as follows :- East Ward 15, West Ward 5, and South Ward 19.

Dealing first with the East Ward, a second case occurred in one house with a w.c. This w.c., like most w.c.'s in the district, is not provided with a ventilating shaft and inspection chamber, contrary to your Bye-laws, Section 63 (Sub. Sec. a). Of the remainder, five were in houses with Pail Closets and eight in houses with Midden Privies.

In the West Ward, three cases in houses with Pail Closets and two in houses with Midden Privies.

South Ward, one case in a house with a Slop Closet, nine in four houses with Pail Closets, and nine in nine houses with Midden Privies.

Sanitary the Typhoid and personal habits of the inmates.

With few exceptions the sanitary surroundings of what surroundings of may be justly termed the Typhoid type of houses are extremely defective, and the inmates, corresponding with their environments, are of careless habits, difficult to advise, obstinate in their own opinions, blank unbelievers in every form of infection save such as providence may send as the measure of one's luck.

> They-the inmates-are severe economists in the use of soap and water, and carry infection in their trail as they change from one street to another. Their backyards are always damp by continual irrigation with kitchen slops; notwithstanding the near proximity of properly grated gullies for the reception of kitchen waste; not only so, but the curtilage to the rear of their houses, let it be a court or uncultivated piece of land, is taken up with fowl pens, rabbit hutches, pigeon cotes, vegetable and tea leaves, fish bones, and mussel shells freely scattered about. To keep this class of houses and their occupants in good sanitary condition would need a Sanitary Inspector posted to each house all the year round.

Measures of removal of excreta in Typhoid pails to Furnace

Typhoid cases are carefully isolated, the excreta removed prevention every morning in a special typhoid pail by a servant of the Council, and carried in a closed van to a furnace built for the purpose, where they undergo complete cinderization.

> Last year, while commenting in my Annual Report on the wisdom of the Council in detailing off a man to flush the sewers twice weekly, this year this very necessary measure has been

Condition of backyards and gardens.

discontinued from June to October owing, I believe, to the scarcity of water. It should be remembered that the drier the regularly flushed season the greater the need for flushing sewers, drains, and catch-pits.

The following figures may represent more graphically the local distribution and sanitary conveniences of those houses from which typhoid cases were notified :--

East Ward, houses with	(a) W.C. 1	(b) Pails. 5	(c) Privies. 8	
West Ward ,,	0	3	2	
South Ward ,,	1	4	9	

This illustrates the great advantage of the water carriage system. 48.7 per cent. were in houses supplied with midden Percentages. privies, 30.7 in houses with pail closets, and only 5.1 per cent. in houses with w.c.'s, one of which was unventilated, the other of the filthy slop type.

The chief increase this year has been in the South Ward, easily traceable to two sources. (1) Early in March seven cases were notified from the village of Nuncargate, mostly in young children, whose milk supply without exception was from the same Dairy. Leaflets were distributed to every house in the village warning the people to boil the milk before use. (2.) After this we find no more cases from Nuncargate till November 6th, when a case occurred in a house with a dilapidated Midden Privy and house waste drainage communicating directly with the sewer untrapped.

The case, a young married woman, was an obscure one, and ill several weeks before being notified. The members of her father's family freely visited her, and her mother and grandmother nursed her. By and by one of the brothers contracted the disease, and; through imperfect means of isolation and extremely careless habits of the inmates, within a fortnight five others were down in this family.

Many of the cases in the other Wards were as already pointed out, due to careless personal habits, coupled with faulty sanitary conditions. Do what we may, the personal equation will remain an important factor in the causation of Typhoid Fever. Not so long ago Sanatarians preached that good and wholesome water supply to every village would banish Typhoid, but so long as we can point to yards, courts, and back gardens as described above, so long will Typhoid Fever remain with us.

Relative number of cases in (a) w.c.'s (b) pails (c) privies

Sewers not

PUERPERAL FEVER .- Two cases were notified, one in the supervision South Ward and one in the West Ward. No deaths. The increased supervision now exercised by the County Council over Certified Midwives, and the educational value of the Nurse Superintendent's visits to these, Practitioners is calculated in the future to render the lot of the parturient woman much safer.

Measles:

Increased

of mid-wives.

MEASLES .- As already explained, when dealing with Infant Mortality, a severe epidemic of Measles passed over the District in the First Quarter of the Year, resulting in 16 deaths, six in the East Ward, five in the West, and five in the South Ward.

The incidence of the attack fell entirely on the younger portion of the population, seven deaths under one year, eight deaths one year and under five years, and one death between five and fifteen years. The type of disease was very severe, and often complicated by a fatal pneumonia. Warmth in a room of even temperature is the safest treatment by far for Measles, The majority of deaths were however mild in its outset. directly due to exposure, either in the early stage when pneumonia was found to be present with the development of the rash, or undue exposure during early convalescence.

WHOOPING-COUGH accounts for seven deaths, two in the Whooping Cough East Ward, four in the West, and one in the South Ward. Four of these were under one year of age, and three between one and five years.

> ERYSIPELAS .- Twenty cases were notified, six in the East Ward, five in the West, and nine in the South. They were mostly trivial cases, occurring in old and feeble people, and in no case associated with traumatic conditions.

Phthisis.

Erysipelas.

PHTHISIS and other Tubercular Diseases .- Eight deaths from Phthisis were registered, five in the East Ward, one in the West Ward, and two in the South Ward. Other Tubercular Diseases, three in the West Ward and one in the South Ward.

The following figures will show that in this district Phthisis, like other Zymotic Disease, has yielded to sanitary improvements. For the first five years, 1896-1900, average deaths 8.8, last five years average 7.0 :--

Years.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.
Deaths	7	7	6	12	12	7	6	8	6	8

Rate per 1,000 of the Population for each Year.

1896	0.82		,,	"	
1897	0.78		,,	33	
1898	0.64		,,	"	
1899	1.22		,,	"	Reduction in the
1900	1.19	*	,,	"	Phthisical deathrate.
Average	0.93		,,	for the first five years.	(teathrates
1901	0.67		,,	for each year.	
1902	0.52		,,	33	
1903	0.63		,,	23	
1904	0.43		,,	"	
1905	0.55		,,	33	
Average	0.56		,,	for the last five years.	

CONSUMPTION is spread through expectoration, or How Consumption is spitting. This fact can't be too strongly insisted on. One can't help thinking as he watches the freedom with which the Consumptive often spits, both in the house and in the streets, that a radical reform is required in some of our habits, particularly this one of spitting.

In this way a person suffering from advanced Consumption will throw off millions of the tubercle bacilli in a day. Now Tubercle baccilli these bacilli and spores are amongst the most difficult to destroy of all germs, and can almost live and thrive under any condition. Such, for example, as in the dust on the floor and on the walls of rooms occupied by the Consumptive. Again they, the tubercle bacilli, stick to the cups, saucers, and other vessels used by the Consumptives; clothing, carpeting, and other turniture in the sick room get quickly loaded with them.

Being light as air and infinitely small, so that the unaided human eye cannot see them, the bacilli get easily mixed with the solid and liquid foods we take, and also the air we breath, and in this way the healthy by a prolonged exposure to this kind of danger become infected in their turn.

The great thing then to do is to destroy the sputum of the phthisical by either burning it or mixing it with strong disinfectants such as strong solutions of Carbolic Acid 1 in 20 Izal or Creolin. Of these methods burning is by far the best.

live and thrive in dust and mix with food, air. etc.

spread.

Use of disinfectants. Value of air and light,

Consumptives carefully and intelligently attended to in this way do not spread the disease. Of course, no one should sleep in the same bedroom as a Consumptive, particularly if the case is advanced. Sunlight and free ventilation of the bedroom and other rooms in which such a person lives are an absolute necessity.

Influenza.

INFLUENZA.—Three deaths were registered as due to this complaint. Early in the year Influenza in epidemic form visited the district, and as usual passed through the community with great rapidity. Many people were ill, and a sudden rise took place in the number of deaths, no doubt due to the indirect influence of this treacherous disease.

NON-ZYMOTIC DISEASES.

Heart disease.

HEART DISEASE.—Seven deaths were registered, three in the East Ward, three in the West, and one in the South, against seven last year. Four of this number were aged 70 years and upwards; it is evident that the heart leison in their case allowed them to live more than the full period of the average man's life.

Enteritis.

ENTERITIS.—Seven deaths were registered from such causes as "Gastro-Enteritis," "Gastritis," and "Enteritis." They are included under the above heading, inasmuch as enquiry showed that they were not Diarrhœal in origin. Two of the cases were under one year of age, two were one to five years, two 25 to 65 years, and one overe 65 years.

Bronehitis and Pneumonia. BRONCHITIS, PNEUMONIA, PLEURISY, and other Diseases of the Respiratory Organs account for 32 deaths. East Ward 11, West Ward 10, and South Ward 11. Twelve of these were infants under one year of age, 12 between one and five years, two 15 to 25 years, two 25 to 65 years, and four were 65 years and upwards.

ACCIDENTS AND SUICIDES.—Five deaths were certified as due to Accidents and one to Suicide. On these six inquests were held. Verdicts :—

Accidents.

3 "Accidentally Killed."
1 "Burnt."
1 "Scalded."
1 "Suicide."

CANCER .- Six cases were certified as having died from this cancer. disease, two in the East Ward, three in the West, and one in the South.

The following figures show the deaths registered from malignant diseases since 1896 :--

Years.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.
Deaths	2	4	0	3	4	3	0	5	6	6

Two deaths were regeistered from Alcoholism, one from Deaths from Venereal Disease, three from Nephritis, two from Meningitis, Alcoholism, etc. and from all other causes 40, distributed in Wards as follows: East Ward 21, West Ward 13, and South Ward 14.

Having thus far considered almost exclusively Vital Statistics, Diseases, their variations, distributions, and incidences, there yet remains for consideration a variety of of Public Health subjects of first-class importance, such as bad streets, unventilated sewers, impure milk supply, etc., etc., or what may not be inaptly termed the morbid anatomy of Public Health.

In last year's Report, on Page 33, reference is made to the Private Streets Works Act, 1892, and a list of streets given completed under the Act and taken over by the Council. This year, again in the East Ward, St. Thomas' Avenue, St. John Street, Oxford Street, and Beulah Road have been completed and taken over, but no further progress in this direction has Arrears. taken place in either the West or South Wards; although the following Private Streets are still waiting to be dealt with, some of which are exceedingly bad :- West Ward : Bentinck Town, Princes Street, Mayfield Street Hartley Road, and Southwell Lane. Thesee last two are mere swamps in wet weather. South Ward: Sansome Street, Fox Street, Reform Street, Bentinck Street, and James Street. The majority of these South Ward Streets are also of the bog varlety and urgently require your attention.

SEWAGE FARM .- The Park Lane outfall has been substantially improved this year by the addition of three new filt r new beds added. beds and one very large settling tank. To one of the primary filter beds an automatic distributing arm has been provided of a very serviceable kind, invented by the Council's capable caretaker, Mr. I. Moss. Portland Row Sewage Works are also working well.

Over-crowding the schools in abated.

The over-crowding reported last year as existing in the Elementary Schools has to a certain extent been relieved by the temporary premises provided for the younger children at East Kirkby and Kirkby Woodhouse, but the Kirkby Schools are still in statu quo.

Portland Row dirty towels and

May I in this connection draw the Managers attention to drinking vessels, the need of object lessons in cleanliness in at least one of their Schools. Late in the year, I had occasion to visit Portland Row Infants' School-a rather out of the way place. There were 82 scholars on the roll-present 62. In the cloak room there was a small dirty little piece of canvas, described as a towel, hanging on a roller. The School Mistress informed me that the Caretaker was responsible for this article, and that that worthy supplied a clean one every Monday morning. Three drinking cups were suspended on the water taps, but the cups and basins underneath were coated internally with a thick incrustation of grit or some other precipitate, so thick that when one drew his finger along it left a deep track revealing in pleasing contrast the white enamel of the vessels. Having said to much on this subject last year, I leave the simple facts to your consideration.

Unventilated closets & sewers.

On Pages 35-36, 1904 Report, the filthy slop closet is condemned and attention is drawn to the necessity for proper ventilation of sewers at given points in the district, and further that, according to your Bye-laws, every w.c. should be provided with a separate ventilator and inspection chamber. The slop closets were forthwith converted into regular wash down w.c.'s, but nothing has been done so far to remedy the evil of unventilated sewers and water closets.

Drain-testing not carried out.

Drain testing, another matter of very great importance to which your attention was drawn in last year's Report, but nothing done. When careless workmen and builders in a hurry lay down faulty drain pipes-their connections and seals never tested-nothing further is known till suspicion is aroused by continued illness in the house. Here very aptly the old proverb, "Prevention is better than cure," suggests itself. Another requirement not yet supplied, namely, Steam Disinfector.

IMPROVED MILK SUPPLY .- In order to better supervise Regulations for Milk supply. the Milk Supply of the District the Council has resolved to put in force the powers conferred on Sanitary Authorities under the Contagious Disease (Animals) Act, 1886, and Dairy, Cowsheds and Milk Shop Order, 1886.

In Mid-Summer regulations were drawn up (a) for pre- Bye-laws for scribing and regulating the Lighting, Ventilating, Cleansing, dairies Drainage, and Water Supply of Cowsheds and Dairies in the occupation of persons following the trade of Cowkeepers or Dairymen; (b) for securing the cleanliness of Milk Stores, Milk Shops, and Milk Vessels used for containing milk for sale by persons following the trade of Cowkeepers, Dairymen, or Purveyors of Milk; (c) prescribing precautions to be taken by Purveyors of Milk and Persons selling Milk by retail against infection or contamination. These Regulations have now been for some time in the hands of the Local Government Board waiting their sanction.

Any steps calculated to improve the Milk Supply of this District is of enormous importance to the community. As often Present milk supply a danger remarked in these Reports, I believe our disorganised Milk to public health Supply to be a great menace to the Public Health.

LINDLEY LANE.-Report 1896, Page 8. That is ten long State of years ago. This Lane is reported as follows :--" The piece of Lindley's Lane. land belonging to the Midland Railway Company in the angle between the Railway and Lindley Lane, and having the County Council Highway as its base, forms a stagnant filthy bog, which during rain storms overflows the Lane." Very little has been done to remedy this nuisance. So also King Street and Queen Street at the South end of Lindley Lane require to be properly sewered. At present their sewerage system is carried along their back gardens and actually under some of the houses. There is no defence of this state of things. The present arrangement should cease and new sewers should be made in the streets and the house connections joined direct.

RECREATION GROUNDS .- We are still as a community Need for a without lungs and gymnastia where the young can without let ground or hindrance romp, rove, and jump. In recent years the question of physical degeneration has received considerable

cowsheds and

attention, and the value of physical drill and gymnastics emphasised. For the young and growing of our race no drill or exexrcise equals playing in the open field, where every muscular contraction and rhythmic movement of veins and arteries act in response to agreeable cerebral impressions. Of what physiological value are the set figures of the schoolyard and dingy barrack square, where the dreaded sentorian commands of the drill master or mistress produce blanched faces and contracted capillaries in the nervous-child. Compared with the joy and vivacity of running, jumping, and skipping in the open air or country lane, where the tints and shades of Summer and Autumn scenery combine with pure air to infuse new life and energy into children reared in damp, dirty yards and ill-ventilated homes.

Cricket and football are excellent in their way for the few who practice, but for the thousands as here who are simply lookers on there is no exercise, rather a good deal of shivering by long stands in not infrequently cold and wet weather.

INSPECTOR OF NUISANCE'S DEPARTMENT.

A good deal of useful work has been done during the year in this department. From a Summary in the Appendix it will be seen that this excellent official has brought under your notice 314 cases, and except in three instances every one of these nuisances were remedied with but little loss of tmie.

The exceptions are :-(1) Portland Row, bedroom accommodation is deficient in these houses, very seriously felt when Infectious disease occurs in any of them. When a family, as here, has only two small bedrooms, isolation is impossible.

As an example of what can be done with houses of this class, I should like to point out to you the alterations effected in the tenements known as "Zulu Row," East Kirkby. Originally built like Portland Row, without sculleries and with two small bedrooms, but this year, through the exertions of the Sanitary Inspector and myself, the owner built new sculleries to each house, with an additional bedroom above, also drained, channelled, and blue bricked the yards to their back.

(2) Mackinley's Cowshed. The improvements carried out here are very incomplete. When your new regulations for Milk Shops and Dairies are confirmed, you will have power to insist on further improvements to these premises.

Work done in Inspector of Nuisance's Department.

Lack of bedroom accommodation at Portland Row.

(3) Wilson's Slaughter-house, Main Road, Annesley Wood-The manure hole and pigsty are too near to the house. Slaughter-house and should be removed. The floor of the Slaughter-house should be blue bricked, the yard asphalted and drained.

NEW MARKET .- This piece of ground would be much improved by asphalting, and on no account should be used as a rendezvous for showmen, their vans, and all the other paraphernalia of "Wakes Week."

The association of this unsavory crowd with the food supply The market of the people is most uninviting. Once, if not twice, this let to showmen. Autumn (for we keep the old and new "Wakes") the Market stand was used for several days as camping ground for an army of showmen and their miscellaneous following. When we reflect on the habits of these people going from one carnival to another, often carrying Infection in their trail, settling down for nearly a week in the Market Place with no sanitary conveniences for man or animal, on their departure leaving the place literally covered all over with their refuse and filth, to be in turn within say 12 hours covered with stands for the sale of every form of edibles, we are justly entitled to call the association not only uninviting, but unclean.

THE FACTORY AND WORKSHOP ACT, 1901 (S. 132).

Medical Officers of Health are required to report specifically to their Councils on the administration of this Act.

A list of Factories, Workshops and Workplaces is given in Factory and the Appendix with a Summary of Visits and Reports in tabular 1901. form. You will see that there are within your District four Factories, six Workshops, and seven Workplaces. To these over 30 official visits were paid during the year by the Sanitary Inspector and myself. You will further observe that at one Factory improvement in sanitary conveniences are suggested, at another they are required, and the thing is being done, to provide separate sanitary accommodation for male and female workers, and at a third-Ærated Water Works-the question of smoke nuisance and frequent removal of manure heap is being enforced.

should not be

Workshop Act,

At one of the Workshops the owner is required to remove a fowl pen and keep the premises generally cleaner. In every other respect, such as air space, fire escape, ventilation, and drainage, things are in a satisfactory condition. Infectious Disease—Scarlet Fever—was notified from seven houses used as domestic Workshops. Work was prohibited for a specified time and the articles disinfected.

May I again thank you, gentlemen, on behalf of the Sanitary Officials, for your consideration and courtesy during the year.

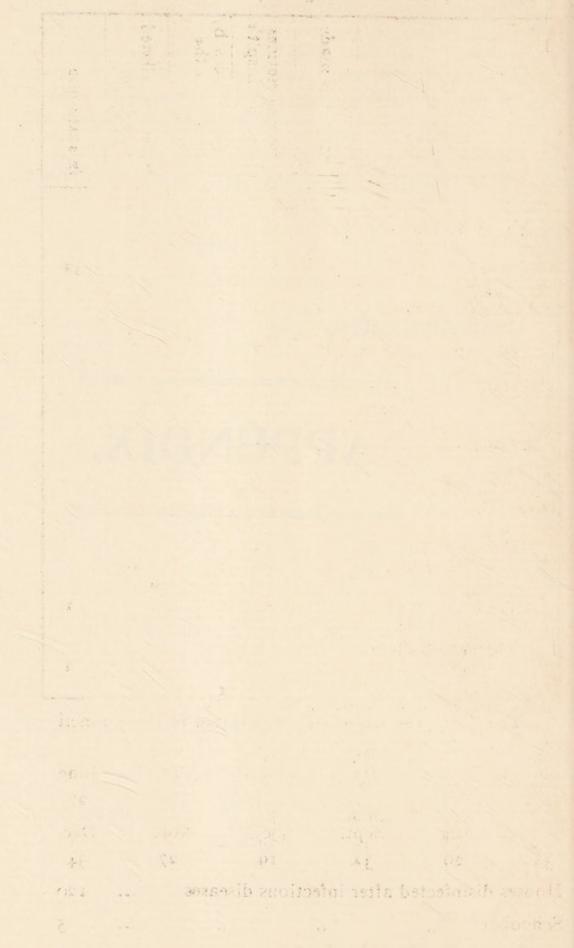
I remain,

Your obedient servant,

J. Mackenzie.

APPENDIX.

ton many of Work done in the Jaspector of Muisances' Depactment during the year 1905 :---



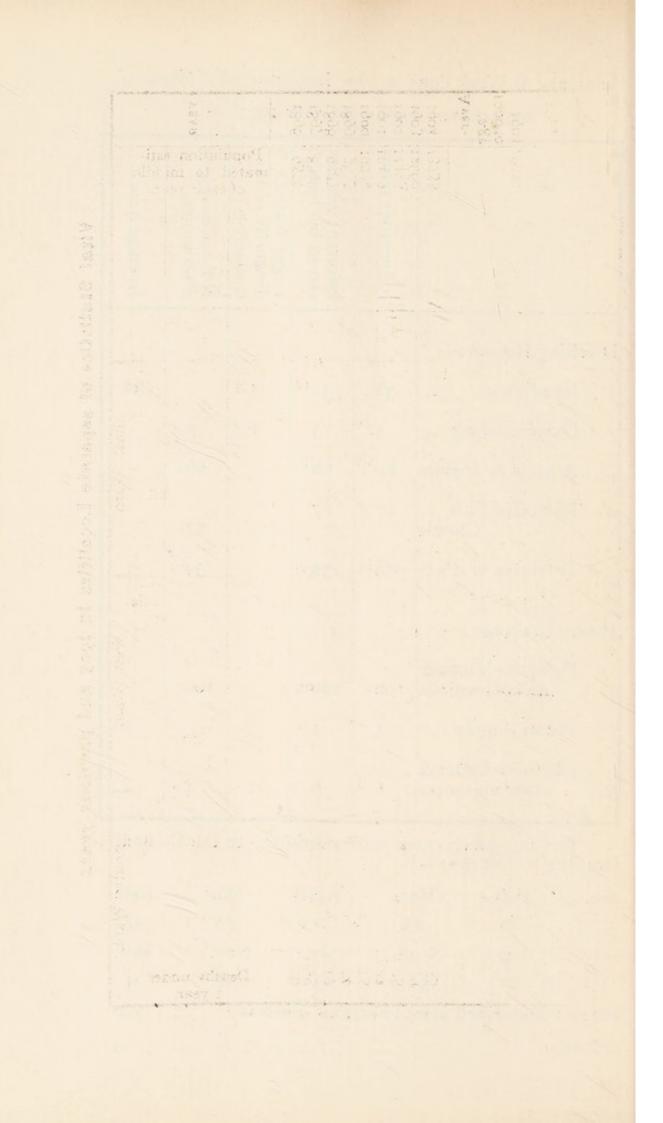
Summary of Work done in the Inspector of Nuisances'

Department during the year 1905 :---

	Inspections made	Informal notices served by Insp't'r.	Legal Notices by authority of the Council	Nuisances abated after notice.	In statu quo.
Dwelling Houses :					
Insanitary	32	32	I		32
Overcrowding	3	3	I	3	
Ashpits & Privies	66	66		66	
Defective Pail Closets	67	67		67	
Defective w.c.'s	39	39		39	
House Drainage :—					
Defective Traps & no connections	100	100		100	
Water Supply	I	1			I
Offensive trades & other nuisances	6	6	2	4	2

The foregoing cases were submitted to the Council monthly as follows :—

Jan.	Feb.	Mar.	April	May	June
17	23	23	23	15	27
July	Aug.	Sept.	Oct.	Nov.	Dec.
35	29	32	19	27	34
Houses	disinfecte	d after infe	ctious dise	ases	 120
Schools	,.	.,	,,		 5



Vital Statistics of separate Localities in 1905 and previous years.

and the second se		_
Deaths under 1 year.	16 28 17 15 15 15 19 25 25 25 25 19 25 19 25 18	
Deaths at all ages.	26 47 49 45 50 50 50 50 50 50 46 50 48 48	
Births regis- tered.	61 141 141 106 113 135 133 133 137 161 161 161	
Population esti- mated to middle of each year.	3307 3535 3535 3530 3770 1582.4 3870	
Deaths under 1 year.	12 7 88 25 25 288 12 288 12 27 27 27 27 27 27 27 27 27 27 27 27 27	
Deaths at oll ages.	26 24 25 55 61 53 47 47 46.8 56 53 55 53 55 55 55 53 55 55 55 55 55 55	
Births regis- tered.	60 91 107 107 125 129 146 122 123 107.4	
Population esti- mated to middle of each year.	3193 3430 3705 4020 1594.2 4260	
Deaths under I year.	21 235 235 239 24 24 24 24 24 24 24 24 24 24 24 24 25 29.7 29.7	
Deaths at all ages.	41 58 56 58 58 61 65 70 61.5 64	
Births regis- tered.	120 178 157 180 180 169 204 212 238 238 238 238 238 238 238 238 238 23	
Population esti- mated to middle of each year.	3912 4530 5325 5965 5965 5965 5965	-
I year. Deaths under	96 54 55 82 82 82 85 86 71.1 71.1	,
Deaths at all ages	159 129 139 158 190 166 155 177 177 162	
Births regis- tered.	337 337 354 401 401 401 495 521 495 521 495 521	
Population esti- mated to middle of each yeat.	9520 8898 9277 9655 9655 10034 10412 11495 13755 13755 13755 13755	
YEAR.	1896 1897 1898 1899 1900 1901 1902 1904 Aver- age 1906 1904	C
	Population esti- mated to middle of each year. Deaths at all ages Deaths at all by pulation esti- mated to middle Deaths at all Deaths at all by bulation esti- tered. Deaths under Deaths at all births regis- tered. Deaths under tered. Deaths under tered. Deaths under tered. Deaths under tered. Deaths under tered. Deaths at all ages. Deaths under tered. Deaths at all sges. Deaths at all sges.	Population Early ation Early at ation Early at at at ation Early at at at at at ation Early at at at

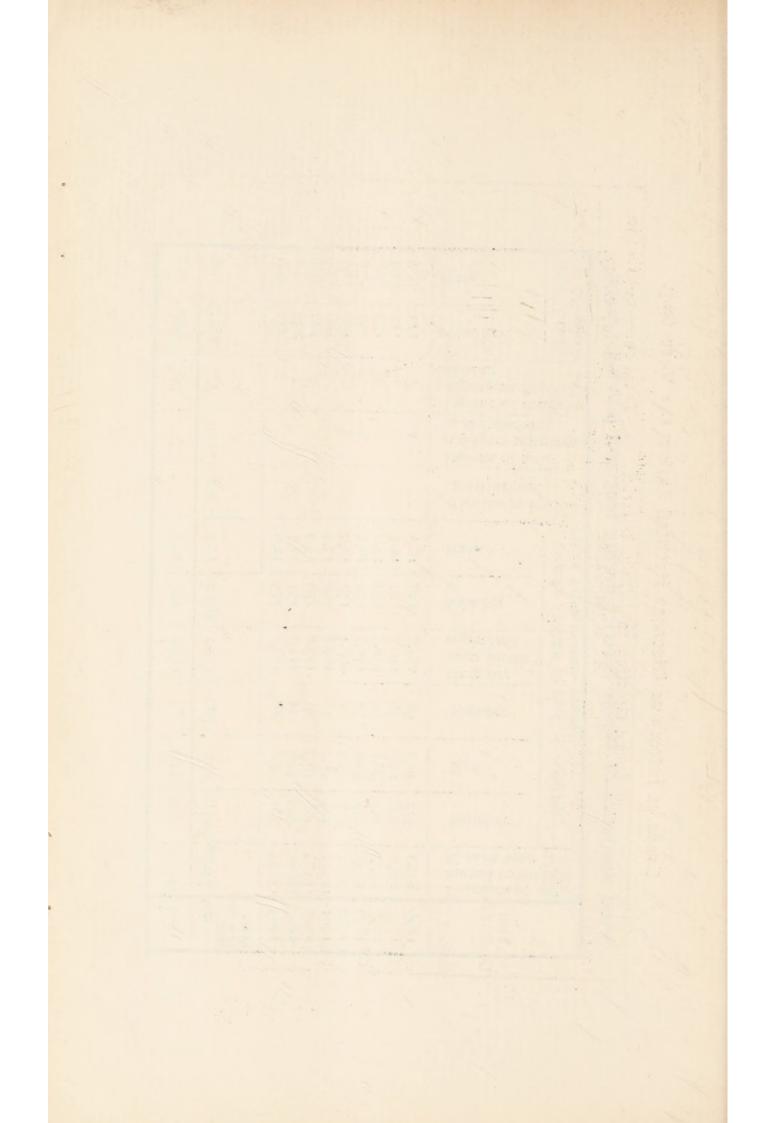
-

14.02 5.4 1002 14402 402 108 03 0432 311 04 51 64 20 108 20 21 3630 123 ARTEL REPERTOR OF LATING THEFTICS SMALLER THER AND DERAHOMA ABARD

.

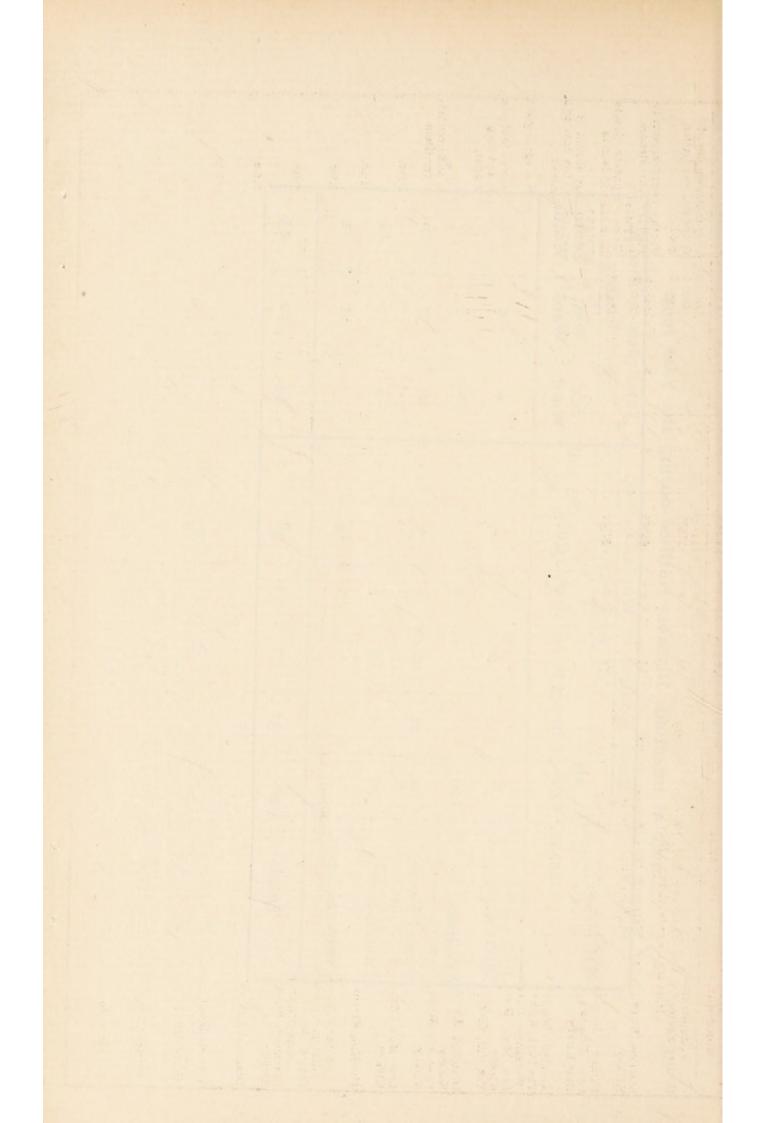
20
24
-
-
00
(1)
-
>
10
0
-
-
0
-
>
(1)
~
- Bast
0
-
-
-
-
and previou
60
-
10
-
0
-
1905
-
-
040
-
-
-
-
-
during
0
-
11
9
-
-
NO.
-
0
•
-
-
0
E
h
/hc
Vhc
Who
Who
Whole District
Who
f Who
of Who
of Who
of Who
of
Statistics of Who
of
Statistics of
Statistics of
Statistics of
Statistics of
Statistics of
Statistics of
Statistics of
Statistics of
Statistics of
of

It all Nett	Rate	18.5 14.4 15.8 15.9 15.9 15.6 12.8 12.8 12.8 12.8	1.11
Deaths at ages. N	Number	159 159 129 158 158 166 166 155 177 155 155	162
	Deaths of rest registered bey district	11 11 11 11 11 11 11 11 11 11 11 11 11	00
stered	Deaths of nor residents regi in the district	1 0 1 0 1 0	
	Deaths in P. Institutions.	0.2	
ths at all ages.	Rate	18.5 14.4 15.0 16.4 15.9 15.3 12.1 13.6 15.4	0.0I
undet Deaths f age age	Number	158 129 140 159 150 156 176 175 175	154
0	Rate per 1000 births registered	284.8 140.7 152.5 140.7 204.4 165.0 165.0	127.3
Deaths I year	Number	96 56 58 82 82 85 86 86 71'1	63
Births	Rate	39.5 44.7 38.1 38.1 38.1 44.7 39.9 39.9 37.8 37.8 37.8 37.8	34.2
Bir	Number	337 398 354 412 412 401 429 495 521 521 521	495
esti- ddle	Population Dopulation of each year	96 8520 97 8898 98 9277 99 9655 99 9655 90 10034 01 10412 10412 11495 03 12660 04 13755 13755 1304 105228	1905 14465
	Year	1896 1897 1898 1899 1900 1901 1903 1903 1904 Aver- 1906.	1905

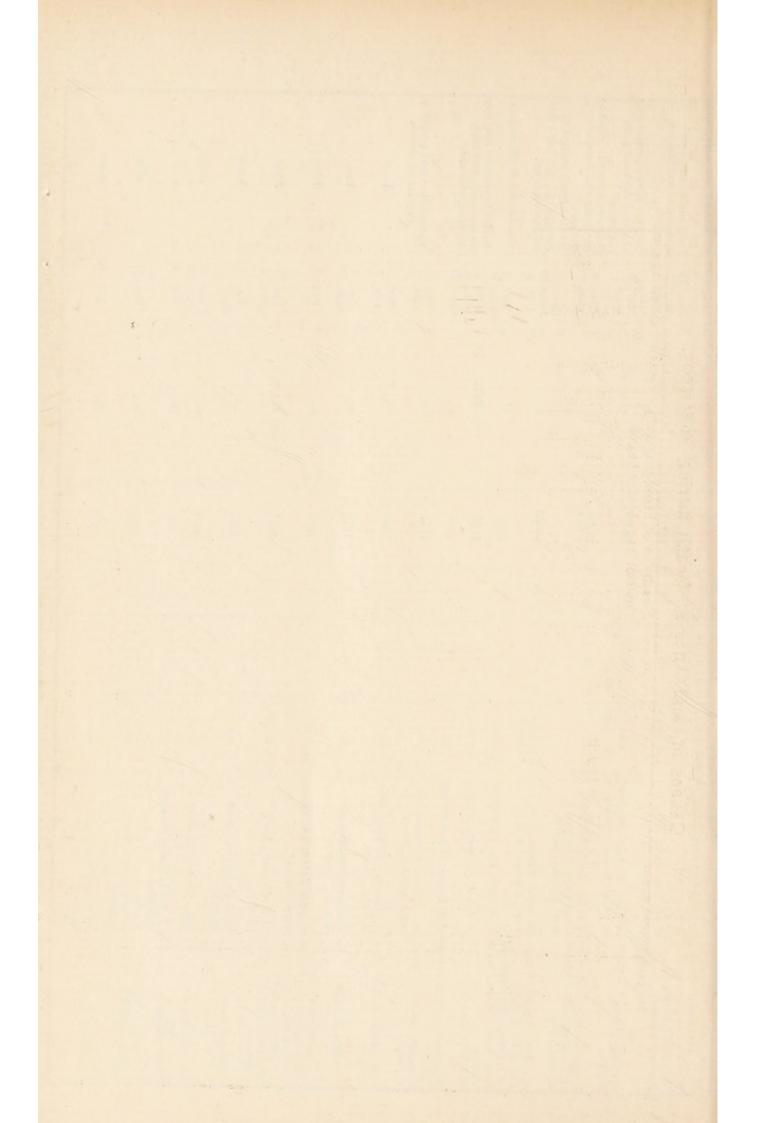


Cases of Infectious Diseases Notified during the Year 1905.

1		-					
fied in	South Ward.		6	1 6	19	I	45
Total cases notified in each locality	West Ward.	4	5	57	5	I	72
Total c	East Ward	+	9	61	15		4
rict.	65 and up.		a				5
le Dist ears.	a5to65	•	15	2	13		38
ied tn Whole Di At Ages-Years.	15to25		3	3	2		13
ified to At A	5 to 15	5		60	14		77
Cases Notified tn Whole District.	I to 5	3		23	9		31
Ca	At all ages.	80	20	63	39	2	161
NOTIFIARLE	ISEASE.	Diphtheria	Erysipelas	Scarlet Fever	Enteric Fever	Puerperal Fever	Totals

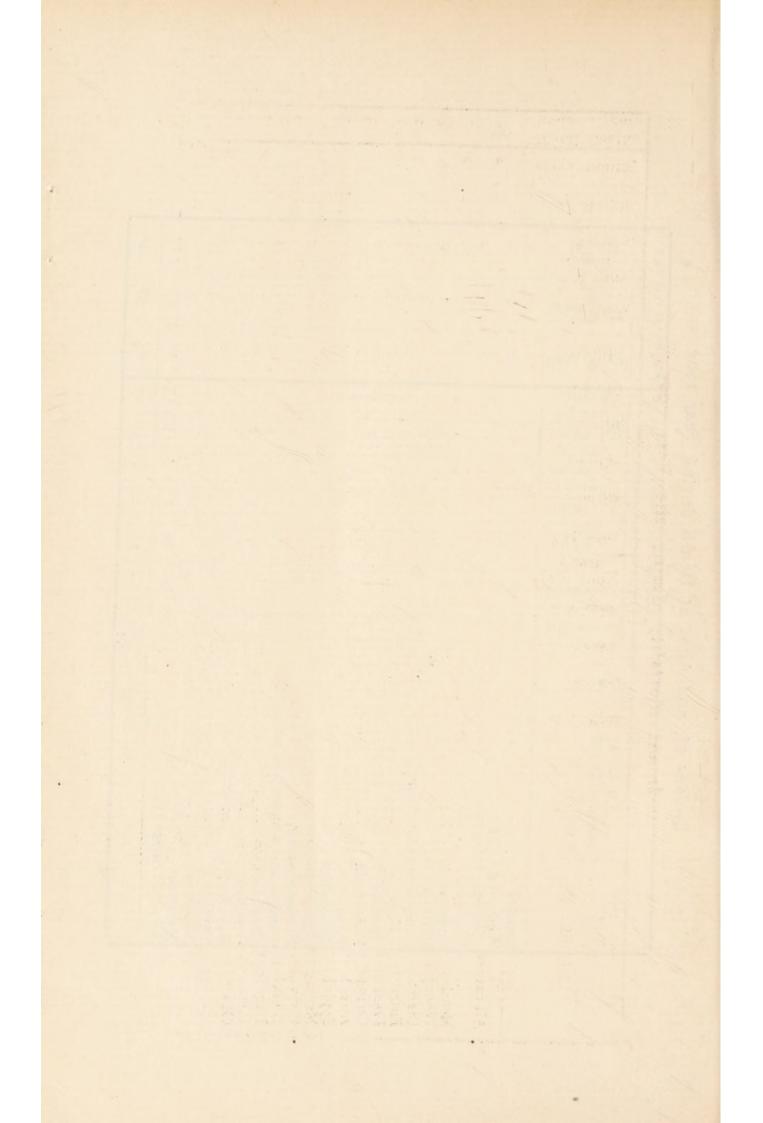


-																	
BUMMARY OF REPORTS	Only males employed Space and ventilation good.	Further improvements in sanitary conveniences suggested	To have separate closets for male nud female workers Manure heap should be	covered in, too near and seldom removed	Ventilation & space good	Notice to remove fowl pen as too near, and keep	premises cleaner.	Ventilation and premises in good condition	ditto.	ditto.	ditto.	ditto.	ditto.	ditto.		ditto.	disto
DATE OF INSPCTION	Jan. 10 Mar. 1 Dec. 9	Mar. 3 Oct. 9	Mar. 3 Oct. 9 Mar. 3	June 10 Oct. 9	Mar. 3	Feb. 17		Feb. 2 Oct. 9	Mar. 3 Oct. 9	Feb. 2 Sept. 10	Feb. 9	Feb. 9 Oct. 1	Feb. 9 Sept. 10	Feb 9 Oct 10	Feb. 9	Oct. 10	Feb. 9
CUBIC WATER CLOSETS. DATE OF M BUMMA SPACE. M F INSPCTION BUMMA		8				One Pail	do.	do.	do.	do.	do.	One Privy	do.	do.	do.	do.	do.
WATER	1	3			1	One	0	•			•	One	0)			
CUBIC SPACE.	cubic ft. 11035	63000	31360	16800	1232	1032	1040	1233	1452	1675	1040	1680	1321	1496	768	1152	1014
NO. OF ROOMS.	2	2	4	2	2	1	2	1	1	3	1	1	1	1	1	1	1
CAR-NUMBER OF ON. WORKERS	19	71	29		3	1	2	1	1	3	2			8	33	6	
WORK CAR- RIED ON.	Hosiery	do.	do.	Areated Waters	Baking	do.	do.	do.	do.	do.	Tailoring	Dressmking	do.	do.	do.	do.	do.
NAME AND ADDRESS WORK CAR-NUM OF OWMER. RIED ON. WO	ares – Geo Cook, Esq., Nuncar- Nuncargate gate, Kirkby, Notts.	Walker & Sons, Station St., East Kirkby, Notts	Manufacturing Kirkby Manufacturing spect Street, Co., Prospect Street, by East Kirkby, Notts.	Works, Hardy & Martin, The Park, Kirkby, Notts.	T. Wilson, Dast Kirkby	J. Bond, the Hill, Kirkby	East E. Wilbourn, East Kirkby	East R. Bains, Prospect St., East Kirkby, Notts.	East J. Burton, & Sons, East Kirkby, Notts.	Co-operative Society, Kirkby, Notts.	Fred King, Station Street East Kirkby	East Mrs. Scothern, East Kirkby	Miss Chadburn. East Kirkby	Miss Sharley, Kirkby	J. Beet, Fisher Street, Kirkby	Miss Saywell, East Kirkby	Miss Hoyland. East Kirkby
NAME AND SITUATION WORKSHOP.	FACTORIES - Hosiery Factory, Nuncargate	Station Street, East Kirkby	Kirkby Manufacturing Co.s Prospect Street, East Kirkby	Aerated Water Works, The Park, Kirkby	hops-Bakehouses loor Road, East	Kirkby The Hill, Kirkl y	d Avenue,	Rurkby Prospect Street, East Kirkby	Low Moor Road, East Kirkby		treet	Gladstone Street, East Kirkby	Diamond Avenue	Victoria Road	isher Street	'emetery Road	.ow Moor Road



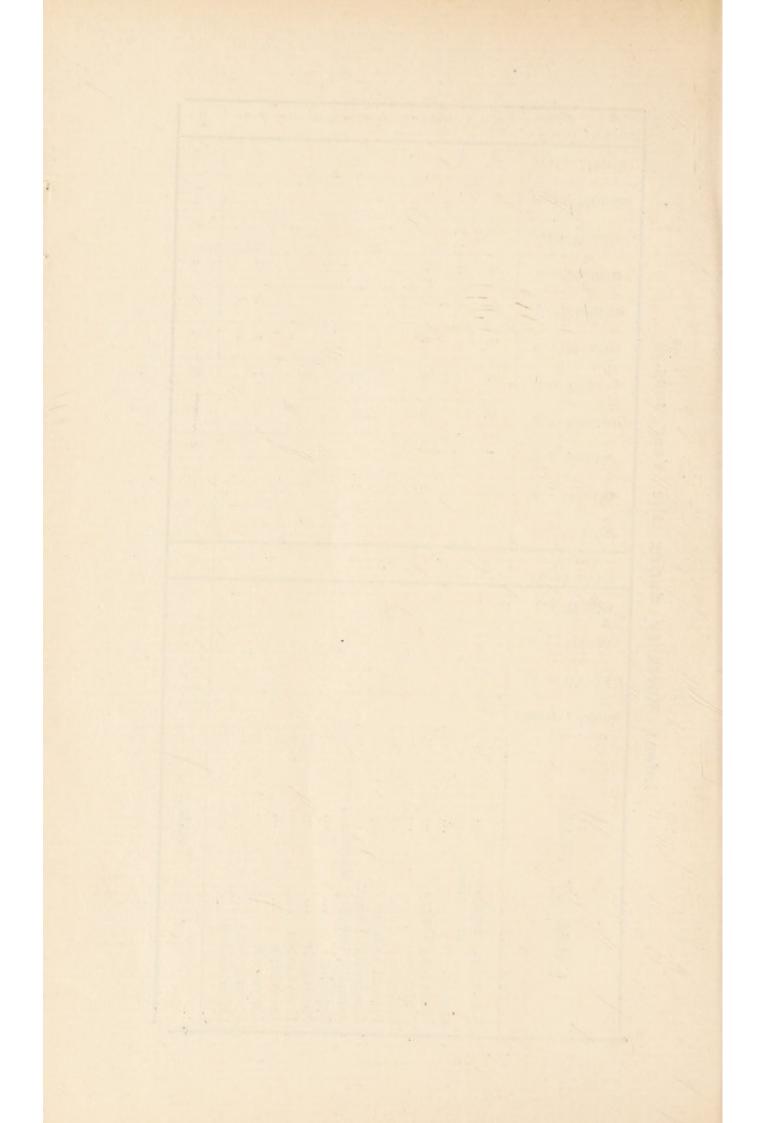
3
1905.
-
1
year
>
50
during
1
Ξ
P
_
-
a
Death
0
at
es
Ages
×
-
and
-
of
-
3
auses
3
9
0

		_	_	_		_	_	_		_	_	_	_	_			_	_		_		_		
age in s.	South Ward	5	I		5	3	а	I	I	3	x				I	I	I	I		ŝ			15	48
s at all a localities.	West Ward	5	4		3	5	I	3	3	3	9	I	I		I		3	I	1	~	61	I	6	50
Deaths	East Ward	9	61	3	3	61	5		61	I	IO		I	I			4	4		64	I	I	91	64
	nbwards.		1	61	1	I			I	3	0	Г	I				4				I		13	27
ng to ages	nuger 65 25 and					0	-0	I	2	0	61		I			I	4	4	I		61		4	32
Deaths in or belonging to District at subjoined ages.	nuqer 25 15 and			-	-	"	I			61									~			I	-	9
or bel subje	nuger 15 S and	I			-													I					I	3
s in c	nuqer 5. I and	00	3			0	I	61		I	II							I					61	31
)eath Distri	Under 1.	1	4	H	00	0				3	6			I	0					5		I	20	63
	All ages.	16	1	3	x	2	00	4	9	1	24	I	61	-	61	I	8	9	I	5	3	ы	40	162
		:	:	-	:	:	:	-	-	-	-	:	:	•	:	:	:	:	:	:	÷	:	:	1 :
	of Death.	:						es								of parturition								All causes
	Causes of I	Measles	Whoopirg Coug't	Epidemic Influenza	Diarrhœa	Enteritis	Phthisis	Other tubercular diseases	Cancer	'Aronchitis	Pneumonia	Pleurisy	Alcoholism	Veneral diseases	Premature Birth	sidents	Heart Disease	Accidents	Suicides	Debility	Nephritis	Marasmus	All other causes	



10
-
1005.
0
-
and .
Year
-
10
41
•
-
~
-
(1)
-
-
the
-
-
20
~~
-
-
+
-
during
-
Trans.
0
>
-
1.100
_
-
8
8
tal
rtal
rtal
ortal
ortal
lortal
Mortal
Mortality
Mortal
Mortal
Mortal
t
t
t
t
t
t
t
t
nfant Mortal
t
t

CAUSE OF Lauses, certified Inder 1 Week All causes, certified III causes, certified III causes, certified III causes, certified All causes, certified III causes, certified III causes, certified III causes, certified Measles III causes, certified III causes, certified III causes, certified III causes, certified Measles III causes, certified III iII causes, certified III iII conting III conting Measles III iII causes, certified III iII iII conting III iII iII conting III iII conting Measles III iII iII iII conting III			
H H		60 59 H 20 B 4 2 H 20 50 H 20 H 20 50 H 20	63
Image: Second secon	stinold 21-11	4 с н н	4
68 н н н н н 4 8-9 Months 70 н н н н н 6 7-6 Months 70 н н н н н 6 7-6 Months 70 н н н н н 1-2 Weeks 7-6 Months 70 1 1 1 1 1-2 Weeks 7-6 Months 7-6 Months 70 1 1 1 1 1 1-2 Weeks 7-6 Months 70 1 1 1 1 1 1-2 Weeks 7-6 Months 70 1 1 1 1 1-2 Weeks 7-6 Months 70 1 1 1 1 1-2 Weeks 7-6 Months 70 1 1 1 1 1-2 Months 1-1 70 1 1 1 1-3 1-4 1 70 1 1 1 1 1-5 1 70 1 1 1 1 </td <td>sntnoM 11-01</td> <td>н</td> <td>I</td>	sntnoM 11-01	н	I
SE Ог 8-0 Митhs Certified Certified SE Certified Certified SE Cough Certified S-6 Months Cough Neeks Neeks Cough N N N N N	9-10 Months	4 − ∞ 0	5
Generating definition Could of the definition Could of the definition SE OF Months Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Counting Counting Construction Construction Construction Counting Counting Counting Counting Construction Construction Construction Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting	sataoM e-8	4 n n n	4
SE Or SE Cough Certified Certified uncertified Cough Certified uncertified Incertified Incertified cough Incertified <td>sdinoM 8-7</td> <td>н л ц</td> <td>5</td>	sdinoM 8-7	н л ц	5
Generatified Counting of the certified SF OF DFATH. Constitution Constitution Constitution Constitution Counting Counting Counting Counting Counting Counting Counting Cotal under 1 Weeks Counting Counting Counting Cotal under 1 Weeks Counting Counting Cotal under 1 Weeks Cotal under 1 Weeks Counting Counting Cotal under 1 Weeks Cotal under 1 Weeks Counting Counting Cotal under 1 Weeks Cotal under 1 Weeks Counting Counting Cotal under 1 Weeks Cotal under 1 Weeks Counting Counting Cotal under 1 Weeks Cotal under 1 Weeks Counting Cotal under 1 Weeks Cotal under 1 Weeks Cotal under 1 Weeks Cotals: Cotal under 1 Weeks Cotal under 1 Weeks Cotal under 1 Weeks Cotals: Cotal under 1 Weeks Cotal under 1 Weeks Cotal under 1 Weeks Cotals: Cotal under 1 Weeks Cotal under 1 Weeks Cotal under 1 Weeks Cotal Cotal Cotal Cotal under 1 Weeks Cotal under 1 Weeks	sataoM 7-2	и р	5
SE OF SE OF SE OF Certified certified Cough certified Locettified Cough S S Marshuus S Math Marshuus Math Marshuus Math Marshuus Math Marshuus Math Math Math Math Math	sdfnoM 3-2	м п п м н	x
Cough Cough I2 Months nuccrtified	4-5 Months	10 H C	ŝ
H H H H H H H H H H H H H H H H H H H H H H H H H H H H H Materia Materia Materia Materia Materia Materia H H H H H Materia Materia Materia Materia Materia Materia Materia Materia Materia Materia Materia Materia Materi	3-4 Months	4 1 1 1 1 1	5
SE OF DEATH. Under 1 Week ISE OF DEATH. Under 1 Week Cough uncertified Inth Defects Inth	2-3 Months	6 1 3	9
H H Notal under 1 A H H Total under 1 Marasmus 0 Nature Nature Marasmus 0 Nature Nature Marasmus 0 Nature Nature Marasmus 0 Nature Nature Marasmus Nature Nature Nature Nature Nature Nature Nature Nat	stanoM 2-1	I	I
SE OF DEATH. ISE OF DEATH. ISE OF DEATH. Ist Ist Ist		14 6 1 2 3 3	14
SE OF DEATH. Ise OF DEATH. Ise OF DEATH. Ise OF DEATH. certified uncertified <td< td=""><td>3-4 Weeks</td><td>н 79</td><td>e,</td></td<>	3-4 Weeks	н 79	e,
SE OF DEATH. Defects certified uncertified uncertified cough Defects	2-3 Weeks	и и	3
Inder L Week Week Week L Week L Week L Week Week	1-2 Меекs	5 1 1 1	3
ISE OF DEATH. certified uncertified Cough Cough Defects ebility, Marasmus es Totals	Under 1 Week	so so	5
JSE OF DEATH. Certified uncertified Cough Cough Defects birth befects es Totals			:
CAUSE OF DEATH. CAUSE OF DEATH. All causes, certified mucertified Whooping Cough Whooping Cough Whooping Cough Whooping Cough Premature Birth Premature Birth Congenital Defects Atrophy, Debility, Marasmus Syphilis Atrophy, Debility, Marasmus Convulsions Preumonia Convulsions Preumonia Dther Causes Totals			:
CAUSE OF DEAT CAUSE OF DEAT All causes, certified Measles	.H.		:
CAUSE OF DE CAUSE OF DE All causes, certified ", uncertified Measles Whooping Cough Diarrhora Enteritis Premature Birth Congenital Defects Atrophy, Debility, Maras Syphilis Meningitis Convulsions Preumonia Dther Causes Other Causes	LES	1 : : : : : : : : : : : : : : : : : : :	als.
CAUSE OF All causes, certified ", uncertified Measles Whooping Cough Diarrhora Enteritis Premature Birth Congenital Defects Atrophy, Debility, Ma Syphilis Meningitis Convulsions Bronchitis Diarrhora Preumonia	DE	Itas	Tot
CAUSE O CAUSE O All causes, certifie "uncerti Measles Whooping Cough Diarrhœa Enteritis Premature Birth Congenital Defect Atrophy, Debility, Syphilis Meningitis Convulsions Bronchitis Dider Causes	H	Ma Ma	
CAUSE All causes, cert All causes, cert unc Measles Whooping Cou Diarrhœa Enteritis Premature Birt Congenital De Atrophy, Debil Syphilis Meningitis Convulsions Bronchitis Laryngitis Pneumonia Other Causes	0	iffect ity,	
CAU All causes, Measles Whooping Whooping Whooping Unarrhœa Enteritis Premature I Congenital Atrophy, D Syphilis Premature I Congenital Atrophy, D Syphilis Premature I Congenital Atrophy, D Syphilis Meningitis Convulsion Bronchitis Preumonia Other Cause	SE	Courter Courte	
All caus All caus Measles Whoopi Unarrhoc Enteritis Prematu Congeni Atrophy Syphilis Meningi Convuls Bronchit Laryngi Pneumo Other Ca	AU	, bung auso	
All c All c Meas Who Vuho Atroj Syph Meni Lary Preu Ucheu Otheu	0	aus aus copies aus copies aus copies aus copies aus copies aus copies aus copies aus copies aus copies aus copies aus copies aus copies aus copies co	
A ADDEROKOKOKOKOKOKOKO		Vho Vho Vho Vho Vho Vho Vho Vho Vho Vho	
		ANTHORNSONDITO	



List of Houses condemned as unfit for human habitation from

several causes 1902-05.

ILTS.	Remedied.		93	14		
Results.	In statu duo Remedied.	onh nime m		49	49	49
South Ward.			61	49	49	49
East Ward. West Ward. South Ward.			25			
East Ward.			7	14		
YEAR.			1902	1903	1904	3005

ł

*

4

