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# REPORT

ON THE

# HEALTH OF THE BOROUGH

OF

# BIRMINGHAM,

FOR THE YEAR 1878,

ALSO,

ON THE PROCEEDINGS TAKEN UNDER THE ACT FOR THE

# PREVENTION OF ADULTERATION

OF ARTICLES OF FOOD AND DRINK,

BY

# ALFRED HILL, M.D., F.I.C.,

Medical Officer of Health,
and
Analyst to the Borough.

PRINTED BY ORDER OF THE HEALTH COMMITTEE.

BIRMINGHAM:

# MEDICAL OFFICER OF HEALTH'S DEPARTMENT, PUBLIC OFFICE, BIRMINGHAM, May 3rd, 1879.

### TO THE HEALTH COMMITTEE.

MR. CHAIRMAN AND GENTLEMEN,

I have the honour to present my Report for the year ending December 28th, 1878.

The population of the Borough, estimated by the Registrar-General to the middle of the year upon the basis of the last census in 1871, was 383,117, spread over an area of 8,400 acres, and occupying about 73,000 houses, about 6,000 houses in addition being void. The average number of persons per acre is 45.6, but of course the population is not spread equally over the whole area.

The density of a population has a marked influence on mortality, as a rule those towns which are most densely populated suffer the heaviest mortality, and the same may be said of parts of towns. Birmingham is very favourably circumstanced in regard to the area which it occupies, comparing advantageously with some of the other principal towns of the kingdom. The following table shows the population, number of persons per acre, and mortality in certain towns of the kingdom:—

		Estimated Population, 1878.	No. of Persons per Acre.	Death-rate.
London	200	3,577,304	47.5	23.5
Norwich	***	84,620	11.3	24.6
Birmingham		383,117	45.6	25.2
Liverpool		532,681	102.2	29.4
Manchester		360,514	84.0	27.9
Leeds	***	304,948	14,1	23.8
Newcastle	***	144,570	26.9	23.8
Glasgow	***	566,940	94.0	24.9
Dublin		314,666	31.3	29.6

Although density of population exerts so marked an effect on public health, its influence may be interfered with, and even eclipsed, by bad conditions of another kind; a striking example of this fact is furnished by the city of Dublin, where, with a population numbering only 31.3 persons per acre, the mortality is excessively high.

The number of

### BIRTHS

registered during the year is 15,964, against 16,001 in 1877 and 15,816 in 1876, consisting of 8,155 males, and 7,809 females. The numbers for each quarter of the years 1873 to 1878 inclusive are as follows:—

1873.			1st Quarter.		2nd Quarter.	Srd Quarter.		4th Quarter.	TOTAL.	
Total			3,741		3,564	 3,378		3,814	***	14,497
Males	***	***	1,892	***	1,783	 1,715	***	1,950		7,340
Females	***		1,849		1,781	 1,663		1,864	***	7,157

187	4.										
Total			3,814		3,871		3,493		3,710		14,888
Males			1,953		1,961		1,758		1,853	***	7,520
Females			1,861		1,910		1,740	***	1,857		7,368
187	5.						-				
Total			3,787		3,787		3,581		3,757		14,862
Males			1,929		1,884		1,815		1,904		7,532
Females		***	1,857		1,853		1,766	***	1,853		7,329
Sexless			1		0		0		0		1
187											
Total		***	4,140		3,924		3,803	***	3,949	***	15,816
Males			2,045		1,996		1,959	***	2,028		8,028
Females			2,095		1,928		1,844		1,921		7,788
187											
Total		***	4,296	**	4,009		3,769		3,927		16,001
Males	***		2,139		2,015	***	1,878	***	2,037		8,069
Females	***		2,157		1,994		1,891	1111	1,890		7,932
187	8.		100000000								
Total			4,139	***	4,096	***	3,849	***	3,880		15,964
Males			2,160		2,051		1,962		1,982		8,155
Females	***	***	1,979		2,045		1,887		1,898	***	7,809

The Birth-rate for the year is 41.67 per 1,000 persons living, against 42.39 last year, and 39.38, the average rate in the 10 years 1868—77, and though lower than last year, is still higher than in any one of the preceding ten years, except 1876 and 1877, and is exceeded this year by only two of the twenty-three large towns of the United Kingdom, viz., Salford and Hull.

In the subjoined statement will be found the Birth-rate per 1,000 of the population in the undermentioned large towns for the year 1878:—

London.	Norwich.	Birmingham.	Liverpool.	Manchester.	Leeds.	Newcastle.	large Towns.
36.2	33.6	41.7	38.8	38.2	39.2	38.1	36.8

### DEATHS.

The Deaths registered during the year amount to 9,662, against 9,038 last year, and 8,330 in 1876. The Death-rate per 1,000 persons living is 25·2, as compared with rates of 24·8, 26·8, 26·3, 22·4, and 23·9, in the years 1873 to 1877 respectively. This rise is the result of the epidemic of Scarlet Fever, which raged in the Borough during the whole of the year, but more particularly, as is usual, in the 4th Quarter, and of the prolonged severity of the weather in the last two months of the year, when deaths from diseases of the Respiratory Organs were more than ordinarily numerous, as well as of a slightly higher Death-rate from Diarrheea. Although the Death-rate was higher in 1878 than in the two previous years, it was not so high as in 1874 and 1875; in the former year both Scarlet Fever at its acme and much Small-pox existed, while in 1875 Diarrheea was exceptionally fatal.

The death-rate given above does not exactly agree with that stated by the Registrar General, who makes it 25.5 per 1,000. This difference is explained by a footnote in the Registrar General's Annual Summary for 1878 to the effect that "the deaths in Birmingham . . . include paupers belonging to the Borough who died in Workhouses situated outside the municipal boundaries."

The Workhouses referred to are those of Erdington and King's Norton; the former receives paupers from that part of the parish of Aston situate in the Borough of Birmingham, and the latter receives them from that part of the parish of Edgbaston which constitutes a portion of the Borough.

But while these deaths are strictly set down to the account of the Borough, there is no allowance made in the opposite direction for the deaths of persons in the numerous medical and eleemosynary institutions of the Borough who come from places outside its boundaries, so that our death-rate, cateris paritus, appears considerably higher than it actually is. I have not endeavoured as yet

to rectify the error, because from my experience of procuring returns I fear it would be very difficult, if not impossible, to obtain the necessary statistics, but I intend to enquire into the matter.

The Table below affords comparative information for the last 14 years upon estimated population, actual numbers of Births and Deaths and Birth-and Death-rates:—

-rates:	-									
Year.		imated Populat		Births.		Deaths.		Annual l	Rate ving.	
A Cont.	3	each Year.						Births.		Deaths.
1865	1		- (	12,699		8,014		38.87		24.5
1866	1	The Estimated	1	12,877	1000	8,042		38.48		24.0
1867		Population		13,029	***	8,318	***	38.01	***	25.6
1868	711	n these years not to be	18	12,992	***	8,548		36.31	***	25.9
1869	1	relied on.		12,779		7,737		35.23		23.1
1870	)		(	12,922	***	7,805		35.00		23.0
1871		344,980		13,443		8,594		39.00		24.9
1872		350,164		14,123	***	8,048		40.50		23.1
1873		355,540		14,497		8,990		40.78		24.8
1874		360,892		14,888	***	9,665		41.25		26.8
1875		366,325		14,862		9,668	***	40.57	***	26.3
1876		371,839		15,816		8,330		42.53		22.4
1877		377,436		16,001		9,038		42.39		23.9
1878		383,117		15,964		9,662		41.67		25.2

In the following statement is given the Death-rate per 1,000 of the population of Birmingham and the principal large towns for the year 1878, and the five preceding years:—

DEATH-RATE PER 1,000 PERSONS LIVING.

English Towns.				London.	Norwich.	Birm.	Liverpool.	Manchstr.	Leeds.	Newcastle.
1878	***	24.4	***	23.5	24.6	25.2	29.4	27.9	23.8	23.8
1877		22.8	***	21.9	21.0	23.9	26.5	27.4	22.3	22.4
1876	***	23.6		22.3	21.9	22.4	27.6	29.2	25.1	22.8
1875		25.4		23.7	24.5	26.3	27.5	29.9	26.4	26.1
1874		25.4		22.5	23.5	26.8	32.0	30.4	28.7	29.2
1873		24.4	***	22.5	21.5	24.8	25.9	30.1	27.6	30.1

In the subjoined Table will be found the total number of Deaths, the number of Deaths in each sex, and the Death-rate for each quarter of the year, together with the totals for each of the four preceding years:—

Total	1st Quarter. 2,592	2nd Quarter. 2,045	3rd Quarter. 2,431	4th Quarter. 2,594	Total 1878. 9,662	Total 1877. 9,038	Total 1876. 8,330	Total 1875. 9,668	Total 1874. 9,665
Males	1,340	1,105	1,277	1,364	5,086	4,745	4,390	5,044	4,993
Females	1,252	940	1,153	1,229	4,574	4,292	3,939	4,623	4,672
Sexnotknown	-	_	1	1	2	1	1	1	_
Death-rate	27:06	21.35	25.90	27.08	25.2	23.95	22.40	26:34	26.78

The division of the Deaths among the nine Registration Sub-Districts is shown in the statement below :—

Ladywood		1st Quarter. 297	2nd Quarter. 250	3rd Quarter. 296	4th Quarter. 311	Total 1878. 1,154	Total 1877. 950	Total 1876. 890	Total 1875. 1,090	Death-rate 1878. 23:3
St. Thomas		237	205	221	246	909	880	805	932	21.7
St. Martin	***	288	199	279	304	1,070	996	1,028	1,084	24.6
St. Mary		97	74	87	100	358	352	347	394	23.5
St. George	***	443	311	354	357	1,465	1,383	1,286	1,568	27.5
All Saints'	***	404	380	365	454	1,603	1,571	1,376	1,370	37.4
Deritend		396	314	427	415	1,552	1,437	1,260	1,365	24.3
Duddeston		349	247	341	323	1,260	1,239	1,091	1,292	23.9
Edgbaston	**	81	65	61	84	291	230	247	273	13.6

If we exclude all the Institutions in the Borough, except the Workhouse, the Death-rate last year is 23.6; excluding the Workhouse also, it is 22.2 per 1,000 per annum.

The high Death-rates in St. George's and All Saints' Sub-Districts are due to the existence in the former of the General Hospital, and in the latter of the Gaol, Asylum, Borough Hospital, and Workhouse. The death-rate of St. George's Registration Sub-District, excluding the deaths recorded in the General Hospital, would be 23.7 instead of 27.5, as it actually now appears. In like manner, if the deaths in the Queen's Hospital, situated in St. Thomas' district be excluded, the number of deaths in that district is reduced from 909 to 781, and the death-rate from 21.7 to 18.7.

By eliminating the deaths that have taken place in the Children's Hospital the death-rate in Ladywood Registration Sub-District is brought down to 21·1, and by discarding those registered as dying in the Workhouse, Borough Hospital, Lunatic Asylum and Gaol, the death-rate of All Saints', instead of appearing as 37·4, stands at 21·3.

In the subjoined Table will be found the number of deaths in each of the 16 Wards of the Borough for each quarter of the year:—

				1st	2nd	Srd	4th	Total
Rotton Park	(W., B.	H.)	1.11	274	Quarter. 281	Quarter. 259	Quarter. 323	Total. 1,137
All Saints' (I	)			185	168	182	202	737
Ladywood (H	.)	***	***	159	133	161	158	611
St. Paul	***	***	***	123	80	102	129	434
St. George			***	176	120	160	147	603
St. Stephen	***		+	161	103	145	116	525
St. Mary (H.	)	***		168	164	176	192	700
St. Bartholon	new			182	112	184	196	674
Market Hall	***	***	18.88	120	84	88	99	391
St. Thomas (	H.)		***	174	136	146	162	618
St. Martin	***		***	139	118	136	144	537
Edgbaston	-11		255	93	72	73	97	335
Deritend		***	+++	167	112	150	161	590
Bordesley	2000		333	169	159	179	190	697
Duddeston	***			132	97	119	111	459
Nechells		***		170	106	171	167	614
	Total			2,592	2,045	2,431	2,594	9,662

In the following statement is given the number of deaths at various ætal periods for each of the quarters of 1878, and the totals for that and the two preceding years:—

			1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Total 1878.	Total 1877.	Total 1876.
	1 year of age	***	714	546	902	606	2,768	2,629	2,538
Betwe	en 1 and 5 years	of ag	e 606	440	571	645	2,262	1,832	1,344
- 11	5 and 10	11	110	92	135	185	522	278	290
11	10 and 20	11	72	85	79	86	322	292	304
***	20 and 40	11	251	249	220	255	975	1,054	1,020
- 11	40 and 60	11	393	293	262	361	1,309	1,432	1,393
11	60 and 80	11	371	301	219	394	1,285	1,321	1,245
At 80	years and upwa	ards	75	39	43	62	219	200	196

By comparing the figures for 1878 and 1877, it will be found that there is an increase in the number of deaths at each of the ætal periods up to 20 years, and at that above 80 years of age, while at the ætal periods between 20 and 80 years

of age the number has diminished. At the ætal periods below 20 years of age, the rise in the mortality is entirely due to the excessive fatality of Scarlet Fever; that at 80 years of age and upwards is to be ascribed to a slightly larger number of deaths from Local Diseases generally at that age.

The average age at death for each Quarter of the Year, and for the whole year, is given below, and compared with the corresponding data of the previous year.

 First Quarter
 ...
 24 years 2 months.
 ...
 27 years 7 months.

 Second
 "
 ...
 24 " 0 " ...
 ...
 25 " 4 "

 Third
 "
 ...
 17 " 8 " ...
 ...
 20 " 10 "

 Fourth
 "
 ...
 23 " 3 " ...
 ...
 22 " 1 " ...

 Whole Year
 ...
 ...
 2 " 2 " ...
 ...
 ...
 ...
 24 " 2 "

The death age for the year 1877 was two years higher than in 1878. The principal cause of the lower age in the latter year is the increased mortality from Scarlet Fever and Diarrheea among young children.

On looking at the death age for the several Quarters of the year, it will be observed that it was lowest in the third quarter, the explanation of this fact is that in that part of the year the high mortality from Diarrhea, combined with a high mortality from Scarlet Fever carried off a great number of the infant population; in the fourth Quarter, although Scarlatina was more fatal than at any other time, and a still low death age might be expected, the death age rose to nearly the same figure as in the first two quarters, and above that of the corresponding quarter of the previous year, this fact receives its explanation from the circumstance that there was a considerable mortality at the end of the quarter amongst persons of advanced age, from chest and other diseases.

Appended to the Report is a Chart showing the death-rate and death-age at the various weekly periods throughout the year.

### INFANT MORTALITY.

The following are the per-centages of deaths under one year of age on the total number of births registered in the principal large English towns during the last six years:—

Average of 20 large English Towns.				London.	Norwich.	Birm.	Liverpool.	Manchstr.	Leeds.	Newcastle.
1878	***	17.2		16.4	21.1	17.0	19.3	17.5	18.8	16.1
1877		15.4	***	14.6	15.4	16.4	18.8	16.1	16.5	15.1
1876		16.7	***	15.7	17.8	16.0	20.8	18.0	18.1	16.7
1875	***	17.6		16.2	21.0	19.6	21.0	18.4	19.7	18.7
1874	***	17.5	***	15.6	17.8	17.8	23.3	19.7	19.9	19.8
1873		17.4	***	16.0	16.1	18.1	21.3	20.0	19.4	18.7

The slight increase in the figures for 1878 is due to the diminished birthrate for the same year.

The per-centage of deaths under one year of age on total deaths during the last six years in the principal large English towns is given in the subjoined statement:—

	large	verage of : English T	20 owns.	London.	Norwich.	Birm.	Liverpool.	Manchstr.	Leeds.	Newcastle.
1878		26.5	***	25.2	28.7	28.6	25.5	24.0	31.0	25.8
1877	***	25.5		24.1	24.7	29.1	27.5	22.6	29.7	26.6
1876	***	26.9		25.7	27.0	30.5	29.6	24.5	29.9	30.4
1875	***	26.2	***	24.4	28.0	30.6	29.4	24.3	30.1	29.1
1874	***	26.4	100	24.9	24.0	27.8	28.2	25.4	28.8	27.5
1873		27.0	***	25.2	24.5	29.2	30.4	25.7	28.0	27.1

The diminution in the per-centage of deaths under one year on the total deaths is owing to the generally higher mortality at ages above one year.

### ZYMOTIC DISEASES.

From the seven principal Zymotic Diseases 2,421 deaths, or 25·1 per cent. of the total number of deaths from all causes, have been registered. In 1877 the total number of deaths from this class of diseases was 1,576, or 845 less than that for the present year; while the average number for the five years, 1873—77, was 1,950, or 471 less than that for the year under notice. The Zymotic death-rate is this year 6·3 per 1,000 persons living per annum, against rates of 5·6, 7·3, 5·9, 3·6, and 4·2 in the years 1873, 4, 5, 6, and 7 respectively, as shown in the table below, from which it is also seen that the Zymotic death-rate is higher than in any year of the last six, except 1874, when the last epidemic of Scarlatina reached its height, and existed in conjunction with Small-Pox:—

		rage of large							
	Englis	sh Towns.	London.	Norwich.	Birm.	Liverpool	Manchestr.	Leeds.	Newcastle.
1878		4.4	4.1	3.6	6.3	6.1	4.0	4.5	4.6
1877		3.2	3.5	2.9	4.2	4.7	4.2	2.8	2.5
1876		4.1	3.6	2.9	3.6	6.1	5.2	4.5	2.5
1875	***	4.4	3.9	4.3	5.9	4.5	4.6	4.6	3.6
1874		4.5	3.3	2.0	7.3	8.4	5.5	6:3	5.5
1873	***	3.9	3.3	2.2	5.6	4.0	5.9	5.6	6.8

In the subjoined Table is given the percentage of Zymotic deaths on total deaths during the same period in the same principal towns:—

		20 large lish Towns.	London.	Norwich.	Birm.	Liverpool.	Manchstr.	Leeds.	Newcastle.
1878		18.2	17.6	14:5	25.1	21.9	14.3	19.0	19.2
1877		15.4	16.0	13.8	17.4	17.8	15.4	12.6	10.3
1876		17.3	16.1	13.2	16.0	22.1	17.8	17.8	11.0
1875		17.5	16.5	17.6	22.2	16.4	15.5	17.4	13.8
1874	***	18.0	14.9	9.0	27.4	25.2	19.7	22.0	18.6
1873		16.3	14.9	10.1	23.8	19.1	19.7	22.9	22.0

SCARLET FEVER has been this year the most fatal of the Zymotics, having occasioned as many as 995 deaths, against 237 in 1877, and 406 the annual average in the five years 1873-1877. The mortality from this cause during the present year (1878) has been 2.6 per 1,000; in 1874 it was a little over 2 per 1,000. It has been widely scattered throughout the Borough, but has been, in relation to population, most fatal in St. Martin and Ladywood Sub-Districts, more particularly the latter. It is the habit of this disease, which is a constant guest with us, to reach the height of its epidemic wave about every five years. Such a culminating period was 1874, and in 1878 it again occurred. This regularity of appearance is no doubt due to the fact that the disease is one principally confined to children between two and seven years of age, and that the epidemic having assailed nearly every susceptible child declines from sheer want of subjects of attack, and so diminishes for a time to gradually increase and attain its maximum of development again in the quinquennial period referred to.

It will be observed that not only is the actual number of deaths from this disease greater in 1878 than in 1874, which might be accounted for by the increase of population, but it is also relatively greater to the number of persons living, the death rate being as much as 30 per cent. higher in 1878 than in 1874. The question naturally suggests itself what is the cause of this increase? It can hardly be due to worse sanitary conditions, for the last four or five years have been characterised by remarkable activity in the amelioration of the state of the town; in my opinion it is the result of that extension of the educational movement which it is so desirable to advance, but which like all other good

measures is handicapped with certain drawbacks and disadvantages. The association of children in much larger numbers than formerly in private, national, and board schools naturally favours the spread of a disease which is as intensely infectious, perhaps, as any with which we are acquainted, and the ignorance or carelessness of parents in allowing children affected to mix with other children in all stages of the disease promote the extension of it to a degree which is most blameable as well as alarming, because by care in isolating cases at an early period in their history there is no doubt that the disease might

be restricted within comparatively narrow limits.

Although the greater prevalence of certain Zymotic diseases of children is as a fact traceable to the circumstance that a greater number of children are brought together in the present time than formerly, yet this in no wise reflects on the means employed for the diffusion of education. The Schools, the new ones certainly, and particularly the Board Schools, are well adapted for their purpose, and no blame is therefore to be placed on either them or their management, which latter is also excellent. As the periodical nature of Scarlet Fever epidemics is now well-known, the conditions of its propagation or arrest are understood, and the advantages of Hospital isolation and treatment are fast becoming recognised, we clearly have the means largely at command of preparing for and providing against such future epidemics. The great want is the willingness of parents and guardians of children to avail themselves of the benefits to be derived from the utilisation of the means of prevention and protection placed by the Sanitary Authority and certain benevolent institutions at their disposal.

DIARRHCEA has proved fatal in 680 instances; last year the deaths from this cause numbered 457, while the average number for the five years 1872-6 was 703. These facts show that while the mortality from Diarrhœa is this year greater than it was during 1877, owing probably to the considerably higher temperature of the third quarter of the year than existed in 1877, it has not been so high as the average of the five years 1872-6. The largest number of deaths from this cause has taken place in the Registration Sub-District of St. George. Sixty-nine per cent. of the deaths occurred in infants under one year of age, and 90.6 per cent. in children under five years

of age

The following are the Diarrhœa death-rates in certain of the large towns for 1878:—

London. Norwich. Birmingham. Manchester. Liverpool. Leeds. Newcastle. 1.0 1.5 1.8 1.8 1.4 2.0 1.6

WHOOPING COUGH comes next in order of fatality, with 455 deaths, as compared with 369 deaths in 1877, 189 in 1876, and 438 in 1875. This disease has been most prevalent in St. George's Registration Sub-District, which

is the most populous of the whole nine.

FEVER, of which 2 are certified from Typhus, 119 from Typhoid, and 26 from Simple Continued Fever, has resulted in 147 deaths, against 144 in 1877, 147 in 1876, and 204 in 1875. Although there are 3 cases of Fever more than in 1877, terminating fatally, the increase of population leaves the Fever death-rate unchanged.

The death-rates from Fever in Birmingham and in 20 large English towns

since 1870, are as under:-

-	-		Birm.			20 large towns.
1870				r 1,000 pe	er annum.	.90
1871			 .53	0	11	.78
1872		***	 .54	11	0	.60
1873		***	 .57	"	11	.59
1874			 .56		0	.58
1875	***	***	 .56	11	"	.52
1876	***	***	 .40	11	11	.45
1877			 .38	11	11	.42
1878			 .38			.42

The steady diminution of Typhoid Fever during the last few years has this year apparently ceased, the proportion of deaths returned as resulting from that disease being exactly the same as last year. There is, however, good reason to believe that this arrest in the decrease of Typhoid fatality is apparent rather than real. It is reasonable to expect that the improvements of water-supply, drainage, and house construction, which have been so largely effected, and which stand confessedly in such close relation to the prevention of Typhoid, should be followed by a lower mortality, and, for my part, I have faith in the view that it is so. In the absence of such a confidence, the prospect would be anything but encouraging to the sanitarian. How, then, is the anomaly to be be explained? My own observation leads me to the conclusion that much carelessness is exhibited in both diagnosing and naming several forms of disease. I have reason to know that cases of Scarlet Fever first seen by the attendant towards their termination, and after all the more characteristic signs and symptoms had disappeared, are hastily and thoughtlessly set down as Typhoid; that cases of simple fever, occurring in feeble subjects, and therefore characterised by a low type, are at once, without any careful examination for, or any discovery of the distinguishing signs of true Typhoid, designated and certified as Typhoid. On putting the matter to medical men, in some cases where, from the unexceptionably satisfactory state of the premises, there was reason to believe the cause of death could not be Typhoid, they have frankly admitted that by Typhoid they did not mean true Typhoid, but simply low fever, which, however, is not Typhoid at all. But the abuse of nomenclature does not stop here.

A case that occurred recently was certified and registered as Typhus. visited the premises with a view to discover the conditions which are so well understood to be associated with this dreadfully infectious and fatal disease but found them all absent. Convinced that Typhus, which is so rare a disease in Birmingham, could not be the cause of death, I waited upon the medical man who candidly, in reply to my questions, said he did not mean Typhus, nor yet Typhoid, but simply low Fever, a fever in fact low like Typhoid or Typhus. Of course it is quite time, now that the distinctions between different kinds of fever are so well made out, that this vitiation of the registration of disease returns by means of loose nomenclature should cease. They are a repreach to professional prestige, and are injurious to the excellent object of Disease Registration, and I hold that although no fee rewards the trouble of giving medical certificates of the cause of death, yet as the duty is imposed on the medical attendant, there is no excuse for such certificates being made out incorrectly; at the same time I am prepared to admit that it appears unfair and unreasonable to expect professional men to give their time in rendering service to the State without remuneration.

Under all the circumstances, it seems justifiable to conclude that if cases were properly certified, the mortality from Typhoid, instead of appearing stationary, would exhibit a gradual decrease, and this view is strengthened by the consideration that we have no explosions or habitats of Typhoid, but that the cases are pretty generally distributed.

DIPHTHERIA is debited with a considerably larger number of deaths, 83 having been certified as terminating fatally, as compared with 52 deaths in 1877 and 58 deaths in 1876. This large increase is, however, probably rather apparent than real. In bearing in mind the severe epidemic of Scarlatina which has existed during the year, and the difficulty of distinguishing it from Diphtheria in some

cases where the eruption is slight, and therefore unobserved, or where, perhaps, it is altogether absent, we may reasonably conclude that many such obscure cases of Scarlatina have been set down as Diphtheria. I am strengthened in this view by the fact that at about the same time, and in the same house, cases have been, to my knowledge, described one as Scarlatina and another as Diphtheria; and although it is not impossible that the two diseases should exist in the same house at the same time, it is more than probable that all the cases were of the same kind, the more particularly as the peculiar conditions likely to generate Diphtheria have been proved by careful examination to be absent. Taking this view of the question, it is very likely that the actual cases of Diphtheria this year are little, if at all, proportionately greater than in previous years.

MEASLES, on the contrary, has largely diminished in its prevalence and fatality, it being accountable for only 54 deaths in 1878, against 309 deaths in 1877, 87 deaths in 1876, and 141 in 1875, having been less fatal, indeed, than in any year since 1872.

SMALL-POX.—Twenty-seven cases have come under my knowledge during the year, while the deaths were only five. The number of cases reported last year was 50, eight of which terminated fatally.

DEATHS AND DEATH-RATE FROM SMALL-POX PER 100,000 OF THE POPULATION.

Town.		Population.	Deaths from Small-pox in		Rate pe	r 100,000.	
			the year 1878.	1878.	1877.	1876.	1875.
London		3,577,304	1,416	39.6	72.0	21.1	2.2
Portsmouth	***	129,461	0	0.0	0.8	0.8	0.0
Norwich	***	84,620	2	2.4	0.0	2.4	0.0
Bristol		206,419	0	0.0	0.0	17.0	35.7
Wolverhampton		74,240	0	0.0	0.0	0.0	0.0
Birmingham		383,117	5	1.3	2.1	0.0	47.5
Leicester		121,473	0	0.0	0.9	0.0	0.0
Nottingham		165,276	0	0.0	0.0	0.0	0.0
Liverpool		532,681	3	0.6	56.7	68.4	5.6
Manchester		360,514	1	0.3	13.3	55.9	4.8
Salford	***	170,251	1	0.6	57.1	250.7	23.8
Oldham	***	107,366	1	0.9	26.7	7.9	3.4
Bradford		185,088	1	0.6	2.2	0.6	1.8
Leeds		304,948	0	0.0	1.0	1.4	7.0
Sheffield		289,537	1	0.3	0.7	0.3	0.0
Hull		143,139	1	0.7	0.7	0.0	1.5
Sunderland		112,459	1	0.9	0.0	0.0	0.0
Newcastle-on-Ty	ne	144,570	0	0.0	0.7	0.7	0.0
In 18 Towns		7,098,654	1,433	20.2	42.8	24.9	6.4

The following statement gives the number of cases and deaths from Small-Pox in each quarter since the end of 1871:—

1	DATE. 1871.			Cases.		Death	8.
November 18th		l of year		359		43	
		Total	***		359	-	43
Tet Owenter	1872			798		96	
1st Quarter	***	***	***	632		92	
2nd "	***	***	+++	355		67	
412	***	***		192		44	
4th "	***	Total	43.1	152	1,977		299
	1873.	Total	***		1,011		200
1st Quarter				171		29	
2nd "				246		37	
3rd "				124		18	
4th "		***		253		38	
		Total			794		122
	1874.			-		***	
1st Quarter	***	***	***	757		123	
2nd "	***	***	***	1,303		196	
3rd "	***	***	***	1,059		165	
4th "	227	m . 1	***	672	0 701	153	207
	1075	Total		-	3,791		637
1st Quarter	1875.	***		366		85	
2nd "		***		347		72	
3rd "				95		14	
4th "		***		16		2	
	***	Total			824		173
	1876.						
1st Quarter	***	***		2		0	
2nd "	***	***	427	2		0	
3rd "		***	***	2		0	
4th "	***			5	-	0	-
	1000	Total		-	11		0
1st Quarter	1877.			7		1	
2nd "	***	***		20		3	
3rd "	***	***		20		3	
4th "				3		1	
2000 11 111	****	Total			50		8
	1878.				- 100		
1st Quarter	***		***	3		0	
2nd "	***		***	4		0	
3rd "		***	***	10		2	
4th "	100	- 11	***	10	7000	3	150
		Total		_	27	_	5
		Grand T	otal	***		-	-
					7,833	1	,287

The total mortality from

### CONSTITUTIONAL DISEASES

has slightly increased on that in 1877. The deaths from Cancer have decreased in number, while those from Phthisis (Consumption), Tabes Mesenterica and Dropsy have each increased. With regard to

### LOCAL DISEASES,

those of the Nervous System have not materially changed, the number of deaths from Paralysis and Epilepsy having diminished, while those from Apoplexy and Brain Disease have increased a little. The deaths referred to Heart Disease show a marked diminution on the number in the previous year, while those from diseases of the Respiratory Organs have remained nearly stationary, the deaths from Bronchitis showing a fall and those from Pneumonia a rather considerable rise on the number in 1877. The deaths classed under diseases of the Digestive Organs show

generally a decrease on last year, which is more particularly noticable in the case of Liver Disease. The number of persons certified as dying from diseases of the Urinary Organs has undergone no material alteration, and the same remark applies to the deaths from diseases of the Organs of Generation and Locomotion, and from those of the Integumentary System.

With reference to

### DEVELOPMENTAL DISEASES

it may be noted that the number of deaths from both Premature Birth and Teething has considerably augmented, while the numbers from Old Age and Debility are smaller than those in the previous year.

Childbirth and Puerperal Fever (Metria) are certified as causing 49 deaths as compared with 59, 52, and 75 in the years 1877, 1876, and 1875 respectively, so that the deaths from these causes equal an annual rate of 3.1 per 1,000 Births registered during the year.

### DISEASE MAPS,

illustrating the distribution of Scarlatina, Measles, and Typhoid, will be found appended; one object of such maps is to present to the eye the area of distribution of these diseases, by which a much better notion is formed than could possibly be conveyed by a verbal description, another is to indicate those parts of the town which are most subject to invasions of Zymotic disease, and so to indicate the direction in which to make inquiries into the possible local causes of and the conditions favourable to the existence of this class of preventable disease.

On looking at the SCARLATINA Map, it is at once observable that the disease existed pretty equally over the whole of the Borough, excepting in the centre of the town, the extreme outlying portions of the town and Edgbaston Ward. The explanation of these facts seems to be that in such localities the population is very sparse, and more particularly, children who form the principal subjects of attack, are few in number there. In Edgbaston Ward another condition comes into play, the combination of greater prosperity and intelligence, care and cleanliness, in consequence of which the disease has less opportunity of successfully invading that portion of the town, and in cases where it obtains a footing, curative and preventive measures are more completely employed, so that the cases as a rule terminate in recovery, and the spread of the disease is checked.

I find that in the last epidemic of Scarlet Fever in 1874 the same distribution obtained.

From a consideration of the incidence of the disease during the last six years, the conclusion is forced upon the mind that wherever children are found in large numbers, irrespective of locality, the disease is most prevalent. In one year some parts of the town are more severely visited, in another year other parts suffer most; but all parts, with the exceptions already made, are attacked in turn, those, however, suffering most—like St. George's Ward—where the population is most dense. Local conditions then, excepting density, seem to have little effect on the prevalence of Scarlatina; the real cause of the spread and general distribution being the communication of infection directly from one individual to another.

The MEASLES map shows that the 54 deaths of the year are distributed in much the same manner as those from Scarlatina, and that the disease does not appear to have displayed any partiality for particular localities, with the exceptions and for the reasons before named.

The TYPHOID map illustrates the freedom of the centre of the town and Edgbaston Ward from the disease, and a pretty general distribution over the other parts of the town. During the past six years the disease has been most prevalent in the Wards of St. Mary, St. George, and Duddeston, all of which are largely inhabited by a poor and dense population.

### VACCINATION.

During the past year 8,635 persons have been vaccinated by the public Vaccinators. This number is exclusive of the cases treated by private practitioners. It is desirable, in order to judge of the amount of protection secured against Small-pox, to know how many of all the children born are submitted to the operation of Vaccination; but as it is impossible to give this information for the whole of the year ending December 31st, owing to the Act applying only to children three months old, and to other circumstances, I have given in Table XVI. a summary of the last returns made to the Local Government Board for the year ending 30th June, 1878, by Mr. Wilcox, Vaccination Officer for the parish of Birmingham, Mr. Towler, Vaccination Officer for the parish of Aston, and Mr. E. Docker, Vaccination Officer for the parish of Edgbaston, to whose courtesy and kindness I am indebted for the Statistics.

From the Table it will be found that out of 9,763 births registered in the parish of Birmingham, 680 or 6.9 per cent. apparently escaped Vaccination, or are unaccounted for, but it is probable that some few referred to in column 11 have since been Vaccinated, and others have died.

In the Borough portion of the parish of Aston likewise, out of 5,653 registered births, 358 or 6.3 per cent. had remained unvaccinated at the time the return was made, while in the corresponding part of the parish of Edgbaston, 46, or 9.1 per cent. were unaccounted for.

### METEOROLOGY.

The Meteorological returns, kindly supplied by Mr. D. Smith, are as follows for the last six years :-

Mean te	mperature	of 1st	Quarter					1875. 40°·4		1873. 39°·0
	11	2nd	11	***	540.5	510.4	51°·2	530.7	530-2	51°.8
	11	3rd	"		600.9	580.4	61°.3	600.0	590.9	590.1
11	11		11		400.9	45°-5	460-2	420.5	410.6	440.5
11	11	year			490.1	490.5	490.4	490.1	490.0	480.6

The mean temperature for the first three quarters and for the whole year was above the average, while that for the fourth quarter was under the average temperature of the last ten years.

The rainfall, which was collected to the extent of more than 10th of an inch on 148 days during the year, was three inches in excess of the average during the past ten years.

Full particulars of the height of Barometer, the range of temperature and mean temperature of each month of the year, the rainfall, etc., may be found in Tables XII and XIII.

### THE BOROUGH HOSPITAL

has received during the year 424 cases of Scarlet Fever, and 29 cases of Small Pox, making a total of 444, against 43 cases of Scarlet Fever, and 38 cases of Small Pox, or a total of 81, in 1877.

Of the twenty-nine cases of Small Pox received into the Hospital seventeen had been vaccinated and twelve unvaccinated; when it is considered what a small proportion the unvaccinated bear to the vaccinated in the whole population, some idea is obtained of the enormous proportion of the former to the latter which are subjects of attack, and therefore of the immense value of Vaccination in protecting from the disease; for although the percentage of unvaccinated persons to vaccinated is small, the proportion of unvaccinated persons attacked with Small Pox upon the total number of persons so attacked is no less than 41 per cent. The same remarkable disparity between the two classes is seen also in the mortality from Small Pox. Of the twenty-nine cases five died, or a little over 17 per cent., but of these five three were unvaccinated.

It is very satisfactory to find that the public are beginning to better appreciate the advantages offered by the Hospital. The number of cases admitted in 1878 is larger than in any year since its establishment, not excepting the year 1875, in which the severe epidemic of Small-pox existed. The increase is the more significant in regard to the fact that persons are, as a rule, much more ready to avail themselves of the benefits of such an Institution in cases of Small-pox, than in those of Scarlet Fever, one reason being that there is a greater fear in the popular mind of the former, than of the latter, and another reason being that Scarlet Fever occurs in younger subjects, and mothers and friends have consequently a stronger objection to part with them.

If the Borough Hospital were used as intended, that is, for the isolation of first cases, it would be easy to effectually prevent such an epidemic of Scarlet Fever as that from which the town is now recovering, and, indeed, epidemics generally; but though the Corporation has wisely and humanely done its part in establishing and efficiently maintaining such an institution, it is powerless to remove patients thither, except with the consent of their parents and friends, who, unfortunately, too often fail to do their part.

Under the circumstances the most that such a hospital can do is to confer the benefits of its treatment on those who choose to accept them; but it is clear that when an epidemic has become so widespread as that of Scarlatina in 1878, the preventive character of the hospital ceases to exert much influence, and it is powerless to restrain such epidemic, however valuable it may be as a mitigating and curative means.

The excellent management of the hospital, the improvements in its arrangements internal and external, and the addition now being made of a spacious, well-lighted, efficiently-warmed ward, will have the effect of increasing the claims of the institution to the favourable estimation of the public. I know, from my own observation, that children enjoy their convalescence there, and are so agreeably impressed by the treatment they receive that they leave it with reluctance, and would like to return, in some instances, with a suffering brother or sister about to go there.

The following statement gives the number of patients treated in the hospital in each quarter and year since its establishment:—

700	D.	ATE.		Sr	nall-pox.		Searlatina.		Total Cases.
1874 4th Q			***		194		_		194
		o the en				27.00			
1875		o the en	d or er	io year	1				
1st Qu					186		-		186
2nd	11	***			169	***	-		169
3rd	0				53	***	13		66
4th	0	***	***	444	12		7	***	19
		Totals			420	***	20		440
	1876								
1st Qu	narter			***	2		1	***	3
2nd	0		444		2	1.00	4		6
3rd	.01	***			2		5		7
4th	0		***		5		28		33
		Totals		***	11		38		49
	1877								
1st Q	uarter	***	***	1111	4	**	20	***	24
2nd	11	***	***	***	19	***	7	***	26
3rd	11		***	***	15	***	13		28
4th	11	***				***	3	-	3
		Totals		***	38		43		81
	1878								
	uarter		***		3	***	13		16
2nd	-11		***		7	***	34	***	38
3rd	11	***	***	***	12	***	139		145
4th	0	***	***	***	7		238	***	245
		Totals	***	- 18	29	***	424	***	444

### THE DISINFECTING STATION,

situated in Bacchus Road, has been much more used than formerly, as will be seen by the comparative statement below. The operations carried on at the station must be highly useful in arresting the spread of infection in households where cases of disease have occurred, particularly when aided as they are by the disinfection and cleansing of the houses or apartments where the cases of illness originated.

The articles disinfected at the Station in Bacchus Road number 6,976,

against 1,403 last year, and consist of :-

				1878.	1877.
Bolsters and	Pillov	vs	***	 899	315
Mattresses		***	***	 290	126
Blankets			111	 353	103
Beds				 466	115
Sheets	***		***	 424	346
Counterpanes				 262	68
Other Article	8	***		 4,282	330
			Total	 6,976	1,403

The cost of maintaining the establishment during the year has been about £210, viz. :—

Wages Horsekee	Oh a				***	£135	4	0
Gas, for ]	Heatin	g and l	Lighting		***	52 16	0	0
Coal	***	***				6	0	0
				Total		£209	4	0

Among the various sanitary agencies by which health is maintained and improved or restored, few are more important than bathing. It is not only healthful in its influence, pleasurable in itself, and agreeable in its results, it is elevating to both the physical and moral being, and, indeed, seems as nearly as possible an unmixed good. In spite, however, of these facts it is most regrettable to find how far from universal is the practice of frequent bathing. Very much has been done of late years by public authorities in the establishment of

### PUBLIC BATHS

to encourage the practice of warm and cold bathing, but at present the opportunities offered have not been embraced with the ardour or even appreciation that could be desired, and the number of the army of the "Great Unwashed" is still lamentably large. One has only to stand for a short time in a crowd, whether indoors or in the open air, to be satisfied, if any doubt previously existed, of the uncleanly condition of the great bulk of the lower classes. Now, looked at from a sanitary, let alone an æsthetic, point of view, this condition of things is a great evil, and one that efforts should be made to remove; the skin is so important a part of the human mechanism, so essential a member of that complex system of vital organs on which comfort, health, and even life depend that the neglect of it is unavoidably fraught with serious consequences. The effects of such neglect may be tardy, but they are none the less sure, and this being so, I would strongly urge, in the interests of public health, the desirability of placing the bath within more easy reach of the masses of the people. In order to do this the charges must first be reduced and ultimately probably it would be necessary to establish more baths. Swimming baths for summer might be constructed very cheaply, but in a climate like ours in which the summers are so short, and in a community made up largely of artizans like that of Birmingham, the greater want is cheap facilities for warm bathing, that is for the use of soap and water. The great point to be secured is not a pecuniary profit on the baths, but the general practice of frequent bathing by the people, and I cannot see why, as in many other sanitary matters, this view should not be acted on. If there should be no direct pecuniary gain to the funds of the Borough, there would be a distinct gain to the comfort, health, and efficiency of the community. With a rapidly-increasing population like ours the practice of bathing ought naturally to increase in at least equal proportion, but I find by a return of the number of bathers at the public baths, kindly furnished me by Mr. Purnell, Superintendent of Baths, that there were between 11,000 and 12,000 fewer bathers in 1878 than in 1876, and above 6,000 fewer than in 1875 as shewn by the following statement.

RETURN OF THE NUMBER OF BATHERS AT EACH OF THE CORPORATION BATHS FOR THE LAST FIVE YEARS:—

	Kent	r St.		Wo	орсоск	ST.	Northwood St.		
	Men.	Women.	Total.	Men.	Women.	Total.	Men.	Women.	Total.
1874	77138	4796	81934	47317	1889	49206	80801	2899	83700
1875	105162	4931	110093	73341	2055	75396	100858	2827	103685
1876	107647	4880	112527	76781	2451	79232	99941	2832	102773
1877	95428	4397	99825	58432	2012	60444	83844	2153	85997
1878	106820	6016	112836	64680	2171	66851	101059	2129	103188

These results are very discouraging, and to my mind shew the necessity of increasing the facilities for bathing. The Romans had a merely nominal charge to their baths, and on certain holiday occasions threw them open to the public free of charge. A proceeding of this kind was highly appreciated and made the most of, it was regarded by the populace as a great treat, similar to the present practice of the throwing open of the continental theatres on certain fête-days, and indeed was used by the leaders of the people as a means of gaining popular favour. I suggest an imitation, suitable to our circumstances, of the excellent policy of our great civilisers, we are slowly copying their system of water supply to towns, as we have long copied many other of their useful models in social economics, and we might, doubtless, with equal advantage imitate their policy with regard to the bath.

### WATER SUPPLY.

I have made, as usual, monthly analyses of the Corporation Water, the average analytical results of which show a slight diminution in the quantity of organic matter present, but in mineral matter a slight increase.

The number of well waters submitted to and analysed by me during the year is 509, of these 489 were so polluted that orders were issued for the closing of the wells from which they were derived. At the end of the year as many as 465 of these wells had actually been closed; in order to do this it was found necessary to serve 126 summonses upon certain owners to attend before the Magistrates, many of these summonses, however, never came to a hearing, and, indeed, in the great majority of cases owners of property have consented without the necessity of magisterial proceedings to close wells represented to them as dangerous to health.

### SEWAGE AND REFUSE DISPOSAL.

During the year 1878, 3½ miles of Sewers were constructed in streets taken to by the Corporation, and two miles in streets not taken to.

The advantage to Health of improved Sewering and Draining, together with a better water supply, frequently presents itself, but it received a striking exemplification in the case of a terrace in Argyle Street. This at the end of the year 1877 was the constant abode of much Typhoid, Diarrhea and low-type disease, ten or a dozen cases of illness might always be found there, and the cause was not difficult to discover. There was no proper drainage, for owing to the situation and disposition of the site and its entourage, this was impossible; drains were defective, traps inefficient or absent, the water supply was consequently polluted, and everything around was dirty, damp, and dismal. Last year, however, thanks to the United Drainage Scheme, the construction of a sewer became possible, and was carried out; as if by magic, the condition of things became entirely changed. The air of depression which had previously prevailed gave way to one of cleanliness, cheerfulness, and health, and now the property presents a clean bill of health and a comfortable aspect.

The foul middens in the Borough still continue to be done away with, and pan closets substituted for the privies attached to them.

Those ashpits that are soaking into the adjoining premises, or are in connection with houses where Typhoid Fever or Diphtheria have existed, receive attention first.

During the year 5,992 pans have been introduced; at the end of the year the total number of pan privies in the Borough was 28,660.

### THE PAVING

of the carriage ways and footpaths, particularly of the latter, has been largely extended, and as this is a matter affecting comfort and health, it is a source of satisfaction as well as of hope that the work may be actively continued until the whole town be redeemed from the dampness and dirt and dustiness which the absence of pavement inevitably involves.

The length of streets in the Borough was at the end of the year 194½ miles, of which 157¾ miles had been taken to by the Corporation, and 36½ miles are not at present taken to. In the streets taken to and through private lands the length of sewers is about 142 miles, while in those not taken to, it only amounts to 31 miles. Eleven miles of the carriage ways are now paved and two miles on tramway routes are partly paved and partly macadamised.

I regret to state that the untidy and injurious habit of throwing out slops and refuse of all kinds into the streets continues unabated. On Sunday mornings the state of some streets is particularly bad, having on their surface an extra quantity of refuse of different kinds, including straw, paper, cabbage leaves, and other matters, rendering them very objectionable to the persons who have to traverse them, and positively unhealthy to those who reside in them. I have observed, over and over again, that in these dirty, damp, littered streets the population has always a less healthy appearance than one living in cleanly streets. Sore eyes, pallid countenances, cachectic subjects, persons with their heads or jaws swathed in flannel, are commonly seen in such localities, and are, I feel convinced, principally the result of that particular condition of the streets which I have mentioned. People occupying the front houses are of course the principal offenders, they prefer the ready method of throwing refuse out at the doors on to the streets, to the trouble of carrying it round to the proper receptacles which are provided in every yard, and I hope the reprehensible custom will receive the attention it deserves; it is illegal and therefore preventable, and as it constitutes a considerable sanitary evil, the prevention which is possible should be insisted on and secured.

### MORTUARIES.

In these Institutions fifty-seven bodies, upon which Inquests have been held, have been deposited during the year. The return, furnishing this information and obtained through the Police, is signed by Inspector James Willis, Summoning Officer to the Coroner, who, however, remarks in a foot note, that other bodies upon which Inquests have not been held, have also been taken to the several Mortuaries.

No proper records however, appear to have been kept at the various Stations connected with the Mortuaries, so that I am unable to give with certainty the total number of bodies received into the latter, but Inspector Willis informs me, that from what he can remember from his own observations, he estimates that about seven such bodies were deposited there, making a total of 64, against 65 last year.

The fifty-seven bodies mentioned were distributed among the four Mortuaries as shown in the following Table, which also gives the corresponding statements for the previous year.

			1878.				1877.
Moor Street	***	***	32	***	****	***	32
Duke Street			10	***		***	12
Kenion Street	***		10			***	8
Ladywood Road	d	***	5			***	13

It is unnecessary to remark upon the great utility and convenience of these Mortuary houses. They are situated in different parts of the town for the reception of the bodies of persons killed, found dead, or for any other reason requiring temporarily to be disposed of in a convenient and decent manner, such as was impossible before their establishment, and they thus supply a want which for a long time was grievously felt.

The

### SANITARY WORK

of the Borough continues to be rapidly pushed forward, no less than 12,377 notices having been issued for the abatement of nuisances during the year. Nearly 3,200 drains have been efficiently trapped, nearly 2,000 filthy houses cleansed and whitewashed, 1,190 houses where contagious disease had existed, cleansed and purified, 1,447 privies reconstructed, 1,384 ashpits and privies repaired, 930 accumulations of manure, wash, etc., removed, 1,549 drains opened and cleared from obstruction, and 859 sink drains disconnected from the sewer. Full particulars of the work done by the Inspector and his assistants with regard to lodging houses, houses let in lodgings, the keeping of swine and other animals in improper places, smoke, &c., may be found in Table VI., the details of most of which have been supplied to me by Mr. Booker, the Inspector of Nuisances, who, I am glad to acknowledge, has given me much valuable assistance and ready cooperation. The work of the Limewashers includes the whitewashing of 5,173 privies and 3,550 passages, courts, and back yards.

### SLAUGHTER-HOUSES

which are private, number 282, against 278 in 1877 and 1876, and 274 in 1875. One hundred and sixty of them are licensed, and 122 are registered. The number of visits of inspection to Slaughter-houses, seizures of bad meat, and other particulars in connection with the Meat Supply, are to be found under the heading "Slaughter Houses" in Table VI., as furnished by Mr. Birckley, Superintendent of Markets. I regret that nothing has yet been done to supplant these private slaughter-houses by a public abattoir, because, as I have on previous occasions stated, in addition to their being frequently altogether unsuitable and great nuisances, they facilitate the traffic in diseased meat, which a single large abattoir under official supervision would enable the authorities almost entirely to prevent.

I am pleased, however, to be able to report that the Markets and Fairs Committee is exercising and has exercised for some months past every possible care to prevent the licensing of private premises which are not well suited for the purpose of slaughter-houses. It is now made an indispensable condition to further licenses that the proper requirements of space, light, ventilation, water-supply, drainage, and ready and safe access be thoroughly fulfilled, and so the errors of the past, flagrant in many instances, will in future be avoided. It is, nevertheless, much to be hoped that the time is not far distant when the boon of a public abattoir will be accorded.

I remain,

0

Mr. Chairman and Gentlemen,

Your obedient Servant,

ALFRED HILL, M.D., Medical Officer of Health.

TABLE I.
BIRTHS & DEATHS (GROSS NUMBERS).

DATE.	BIRTHS.	DEATHS.
1878.	15,964	9,662
1877	16,001	9,038
1876	15,816	8,330
1875	14,862	9,668
1874	14,888	9,665
1873	14,497	8,990
1872	14,123	8,048
1871	13,443	8,594
1870	12,922	7,805
1869	12,779	7,737
1868	12,992	8,548
Average of Ten Years, }	14,232	8,642

### NOTES.

- 1.—Population at Census, 1871, 343,787.
- 2.—Population, estimated to the middle of the Year 1878, 383,117.
- 3. —Area in Acres, 8,400.
- 4.—Number of Inhabited Houses in Borough at Cenus 1871, 68,532.
- 5.—Average number of Persons in each House at Census 1871, 5.0.

TABLE II.

ANNUAL RATE OF MORTALITY, DEATH RATE AMONG CHILDREN, AND DEATHS IN PUBLIC INSTITUTIONS.

DATE.	Annual rate of Mortality per 1,000 living.	Deaths of Children under 1 year; percentage to total Deaths.	Precentage of Deaths of Children under 1 year to Registered Births.	Deaths of Children under 5 years; percentage to total Deaths.	Percentage of Deaths in Public Institutions,
1878	25.2	28.6	17.0	53·1	11-8
1877	23.9	29.1	16.4	1.67	12.2
1876	22.4	30-5	16.0	46.6	11-6
1875	26.3	30-6	9-61	49.4	11.8
1874	26.8	27.8	17.8	47.0	11.8
1873	24.8	29-2	18.1	49-2	11-6
1872	23.1	29.1	16.6		12.0
1871	24.9	29.7	19-0		10-9
1870	23.0	29.9	18·1		11-4
1869	23.1				
1868	25-9				
Average of 10 Years   1868—1877	24.4				

BIRMINGHAM, REGISTERED IN THE BOROUGH OF During the Year ending DECEMBER 28th, During the Year

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### TABLE IV.

Mortality from certain classes of Diseases, and proportions to population and to 1,000 deaths in 1878:—

CLASS OF DISEASES.	Total Deaths.	Death Rate per 1,000 of the population.	Proportion of Deaths to 1,000 Deaths.
1.—Seven principal Zymotic Diseases	2,421	6.3	250
2.—Pulmonary (other than Phthisis)	1,751	4.6	182
3.—Tubercular	1,015	2.6	105
4.—Wasting Diseases of Infants	831	2.2	. 86
5.—Convulsive Diseases of Infants	648	1.6	67

### NOTES.

- 1.—Includes Small-pox, Measles, Scarlet Fever, Diphtheria, Whooping Cough, Fever, and Diarrhea.
- 3.—Includes Phthisis, Scrofula, Rickets, and Tabes.
- 4.—Includes Marasmus, Atrophy, Debility, Want of Breast Milk, and Premature Birth.
- 5. —Includes Hydrocephalus, Infantile Meningitis, Convulsions, and Teething.

SHEWING THE NUMBER OF DEATHS IN THE FIVE YEARS, 1873 TO 1877, FROM THE SEVEN PRINCIPAL ZYMOTIC DISEASES, AND THE NUMBER IN 1878. TABLE V.

Proportion of deaths to 1,000 deaths in 1878.	0.5	9.9	103.0	9.8	47-1	15.2	9.02	250.6	
1878		54	995	83	455	147	682	2,421	
Proportion of deaths to 1,000 deaths in 5 years, 1873—1877.	20.7	17.5	44.4	7.5	8.08	19-7	72.9	213.5	163.0
Annual average of 5 years, 1873-1877.	189	160	406	69	281	180	999	1,951	12,258
1877	∞	309	237	52	369	144	457	1,576	10,292
1876	0	87	204	58	189	147	651	1,336	12,565
1875	174	141	265	55	438	204	898	2,145	13,411
1874	637	139	737	7.4	242	201	622	2,652	11,230
1873	125	123	587	101	169	203	728	2,042	11,385
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	:	1	er	:	Cough	1	:	:	:
	Small-pox	Measles	Scarlet Fever	Diphtheria	Whooping Cough	Fever	Diarrhœa	TOTAL	London

## TABLE VI.

# YEAR ENDING DECEMBER 29TH, 1878.

SUMMARY OF NUISANCES AND OTHER MATTERS REPORTED	AND WORK	ACCOM-
PLISHED BY THE OFFICERS AND MEN EMPLOYED		
ENDED DEC. 31st, 1878.	270111111111111111111111111111111111111	L AMILIE
ENDED DEC. 3181, 1010.	Work	Work
	Reported.	Done.
Number of cases of Nuisances remaining on the books Dec.		
31st, 1877	2,986	
Defective Yard or Private Street Drains requiring opening		
and clearing from obstruction	1,501	1 549
" Drains not efficiently trapped	2,945	3,195
Sink Drains requiring disconnection from the		
Sewer	827	859
" Spout Drains	162	118
Nuisances arising from the want of drains	370	366
" " keeping of fowls	432	487
water in cellars	122	186
faul and defeating unimals		
ii ii foul and defective urmais	513	538
" the overcrowding of houses	61	69
Houses reported unfit for human habitation	84	48
Houses Disinfected by the Inspectors where Zymotic		
disease has occurred	1,281	1.281
Filthy Houses requiring cleansing and whitewashing	1,713	
Houses Cleansed and Purified—paper stripped off the	2,120	1,000
	1 001	1 100
walls, &c	1,281	1,190
Accumulations of wash, deposits of offensive matter,	19 239 11	1 1253
manure, &c	1,090	930
Swine and Swine Styes so kept as to be a nuisance	269	486
Foul Ashpits and Privies requiring repairs	1,257	1,384
Privies requiring re-construction	1,541	1,447
Houses not having on Coint union accommodation	000	872
	001	
Back Yards requiring paving	621	615
Filthy Workshops requiring limewashing	16	77
Privies requiring cleansing and limewashing	5,450	77
Number of Privies limewashed by our own men		5,173
" Courts, Passages, and Back Yards ditto	3,639	3,550
Miscellaneous premises limewashed by our men		289
Viniaguage and in the second of all the land	183	469
coverings for ditto	158	177
" " water	109	162
" " Inemcient ventuation	137	153
" foul dumb wells	3	9
want of washhouses	2	5
Number of Nuisances remaining on the Books under		
		1,934
notice, December 31st, 1878		1,504
Testal	20.000	00.000
Total	29,660	29,660
Number of Notices issued for the abatement of Nuis	00000	
		~~
during the year ended Dec. 31st, 1878	12,3	
Number of cases dealt with by the Magistrates	45	0
Amount of Fines	£20 0	0
" Costs	55 14	9
	£75 14	9
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### TABLE VI.—Continued.

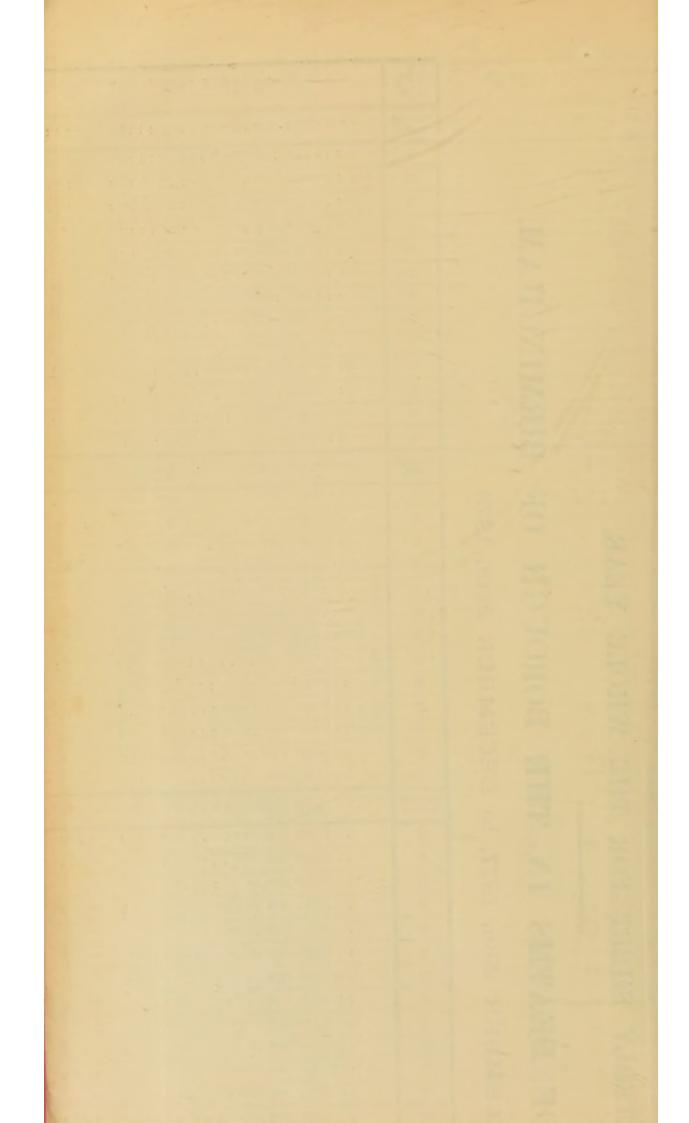
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No. of Well Waters sul	bmitted b	y the Ins	pector	for ana	lysis		. 509
No. of Wells reported a	as polluted	l					. 489
No. of Wells closed							. 465
No. of Premises supplied	ed with T	ap Water					. 496
No. of Persons dealt wi	ith by the	Magistra	ates				. 126
Amount of Costs	***					£18	16 0
			_				
C	OMMON	LODGI	NG I	HOUSE	S.		
							438
Number of Lodgers allo	wed in th	e Houses				***	8,913
Number of Visits by D	ay				***		8,027
" " Ni	ght		***	***		***	3,148
		-	_				
	IOUSES	LET IN	LOI	GING	S.		
							772
No. of Lodgers allowed	in the Ho	uses	***	***	•••	***	4,289
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No. of Slaughter House		244					282
		***	***				12,072
Seizures of Bad Meat		***		***	* ***		302
			***	***	***		435lbs.
Seizures of Fish, &c					***		115lbs
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No. Convicted							211
Amount of Penalties			***			£142	
" Costs							16
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QUARTERLY SHEET FOR THE WHOLE YEAR.

# WEEKLY REGISTER OF DEATHS IN THE BOROUGH OF BIRMINGHAM,

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DEATHS REGISTERED IN THE BOROUGH OF BIRMINGHAM, During the Quarter ending MARCH 30th, 1878.

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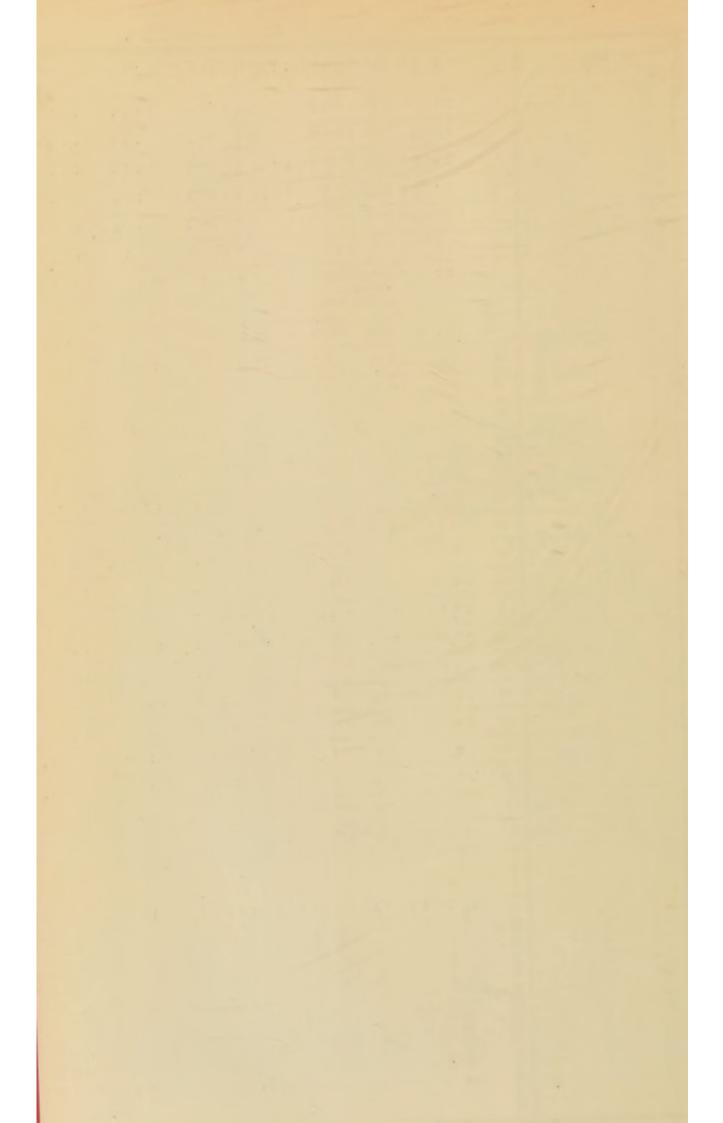
DEATHS REGISTERED IN THE BOROUGH OF BIRMINGHAM,
During the Quarter ending JUNE 29th, 1878.

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	o line and	× ::			177 ( ) )	4.5		112:4	1111111111	111	72 :2 :7	****!!!*!!!!!!	111111			gm : 0 m		0		
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POTAT	ware	0.0	: : ham : 25 m2 mm : : : Mg : :		per per p	- 1	17817	2222	**************************************	: *2	F1: -2-2	******** : : : : : : : : : : : : : : :	n :pn :ng		· w w m m	20:00	:: 3		game (eg )	
_		111	1111111112		01171	1.00		1119	17111111	111	1111111			111	11 111	6		1	11111111	
	CAUSES OF DEATH.	CLASS 1—Zymotic Diseases. Onorn 1—Massamr. (Tarcinaled	1 Smith of Sat Workshood  1 Smith of Sat Workshood  2 Manual of Sat Workshood  2 Manual of Sat Workshood  2 Manual of Sat Workshood  3 Manual of Sat Workshood  4 Manual of Sat Workshood  5 Manual of Sat Worksho	Rheumatines Other Zymotic Business Other Zymotic Business Syphitis Stricture of Urethra Stricture of Urethra Gatashers Gatashers	Ousen 5-Derre.  1 Friesbon 2 Wash of Breat Mile 3 Frapers and Sterry 4 Alcebellos (a. Delicem Trens	Desert 4-1 Thresh Worten, &c.	CLASS II.—Constitutional Diseases Onesa 1—Diseases I Gent E Disport Consect A Number	Esperatus     Talona Menosterios     Estatus (Conompation)     Allydrocephalms (Water on the Ber	CLASS III.—Local Diseases.  - Outer I.—Narces Stream,  - Cophalitis  - Angeles  - Angeles  - Angeles  - Charles  - Charle	Percentitis Americas Front Donne, do.	1. Lacywellina 2. Describina 3. Pereiny 4. Pereiny 5. Aviliana 5. Aviliana 6. Long Domas, dt.	Maria - Institute organical control of the control	Ocean a University Observation of Statement	Charina Boogey Chera Disease, &c.	2. Just Disner, dr. Onten 9 - Integersan Street, 1. Palemon 2. Uner 2. She Disner, de	CLASS IV.—Developmental Disease Ocean L.—Dreaders or Currance. 1 Presented Rich. 2 Cytassis. 2 Cytassis. 3 Color Mathematics. 3 Torbing.	1 Panasana 2 Childheth (see Poergend Fever) Onzen 3-Denzans or Ota Proetz 1. Od Age	Obsest 4-Distance or Normmon.  1. Absolved Debility CLASS VViolent Deaths Obsest 1-Accepts on Nothernor.	1. Practures and Contraines. 2. Wounds Contrained. 3. Months Cod. Sale. 4. Nature of Solids. 5. Nature of Solids. 6. Sulfactures. 6. Sulfactures. 7. Calervise. 7. Calervise. 7. Calervise. 7. Calervise. 7. Calervise.	Morber and Mandangdor     Outer & Service     Tournel Combet     Tournel Cott, Nab     Devening     Outership     Devening     Cottage     Cottage     Cottage     Cottage     Service     Cottage     Service     Servic



DEATHS REGISTERED IN THE BOROUGH OF BIRMINGHAM, During the Quarter ending SEPTEMBER 28th, 1878.

DOUR TO SHAPE OF THE PROPERTY 2112 ### WEARS AND THE PROPERTY OF 31/18 40 mg 2118 a minder 10 resident -1100 071 SEX TOTAL



DEATHS REGISTERED IN THE BOROUGH OF BIRMINGHAM,

During the Quarter ending DECEMBER 28th, 1878.

H. Joseph T. J. March T. J. Ma 12 2 3 The control of the co 37 3112 3113 8799 STIE o light ra line 9 10 to 10 t SEX

## TABLE XII.

METEOROLOGICAL CONDITION OF THE AIR, AND AMOUNT OF RAINFALL FOR THE YEAR ENDING DECEMBER 28th, 1878.

Observed at 63, Bloomsbury Street, Birmingham, at 8.0 a.m., by D. Smith, Esq., F.R.A.S.

The Instruments are considered to be 340 feet above the mean level of the sea.

From the returns of the Registrar-General, the area within the Municipal Boundary of the Borough of Birmingham is taken at 8,400 acres, and the population estimated to the middle of the year 1878, at 383,117.

	Pressure of Air.	TEMPE	RATUR	E OF TH	IE AIR	Gauge Receiving		ameter.
1878.	Barometer	Read	ling of T	hermom	eter.	Depth of	the ground	Number of
Months.	Mean Monthly Reading (corrected and reduced to 32 degrees Fahrenheit)	Highest in Shade.	Lowest in Shade.	Range of Temp erature, in the Month		Rain depo- sited upon a square foot of sur- face, in inches and parts.	ment converted	Days on which Rain fell, when you this of an inch or more was measured.
Jan	In Parts. 29.750	Dg. Prts. 57° 0	Dg. Prts. 26°-4	Dg. Prts.	Dg. Prts.	In. Parts. 1.96	Tons. 198	11
					40 2	1.90	198	11
Feb	29.847	61.0	28.0	33.0	40.1	1.11	112	8
Mar	29.755	59.0	27.3	31.7	43.6	1.17	119	9
April	29.445	67.0	30.0	37.0	48.3	2.17	219	11
May	29:368	70.0	39.0	31.0	54.7	5.33	539	21
June	29:545	89.0	43.0	46.0	60.8	3.37	340	14
July	29.665	90.3	48.8	41.5	63.7	0.98	99	7
Aug	29.384	77.0	46.3	30.7	62.0	6:44	650	18
Sept	29.587	73.0	36.3	36.7	56.9	3.15	318	13
Oct	29:364	70.6	33.2	37.4	52.2	3.66	370	16
Nov	29:396	51.1	29:0	22.1	39.4	3.15	318	11
Dec	29.320	52.8	10.4	42.4	31.2	2.44	246	11



RAINFALL AND TEMPERATURE IN EACH MONTH AND YEAR FROM 1868 TO 1878. TABLE ALLI.

	Temperature	48.5	40-1		9.00	100	54.7	80.09	53.7	0.39	6.95	25.5	39.4	51 51 51	9.69
1878.	No. of days on which or an inch or ability of the process of the p	11	oc	) (	2	9 10	-			18		16	=	=	150
	.HelnisH	1.96	143					3.37	0.08	17.9	3.15	3-66	3.15	2.44	34-93
years	Temperature	99.68	40.4							61.3	7.92	60 10	45.6	39.3	8.69
for 10	No. of days on which of a total and total and total and total and a total and	13	=	-					6	6	100	123	10	14	129
Average for 10 1868-77	Meloieff	2.99	0.94						3-14	60 60	3.77	3.54	0.07	100	32.50
-	Temperature	00.04			10.9			200	8.65	0.09	53.7	49.1	50.00	41.3	19-1
1877.	dolding on excl. 10. OX to dold an 10 scitout-o dormann sam pross	18	0	1 1	01	2	es.	10	120	10	13	175	100	=	149
	IbbaisH	4.47	0.48			01 00 04		5.50	5.03	50.50	82.4	1.51	15.87	2.40	36.75
	Temperature	36.1	20.00				48.1	28.0	63.7	62.7	222	53.0	43.4	00 01 01	1.61
1876.	diddw no eys bo .o.X so dani na bo adriot s .bountenu naw yeont	10	ī	: :	21	20	19	90	9	10	12	0	00	19	136
	Metanost	1.75			3.16	1.98	1.00	10.03	1.45	1.55	5.83	2.26	2.94	5.68	32.03
	Temperature	0.17		0.90	2.07	47.5	54.8	58.0	6.89	62.0	59.3	4.7.4	41.9	39.1	1.61
1875.	And the of days on which so that we had not be selled to be been so that the property of the p	36	0 0	10	ro.	1-	12	15	60	1-	14	16	10	10	135
	Heinfell	61.8			0.81	1.09	2.10	3.915	8.14	1.80	68-8	7-21	3.31	1.45	38-51
	Temperature	41.4		100	9.11	20.2	2.09	2.82	64.0	60.1	1.95	2112	41.6	6.55	49.0
1874.	field a no symble oX to first ma to affect a formament are recor	10	0	20	16	10	1	10	00	7	10	150	10	16	131
	Hainfall	1.0.1		089.8	1.72	1.45	3.54	1.13	1-26	1-985	4.242	2.71	1.45	4.375	28.41
	Temperature			22.7	339.3	9.91	9.02	0.80	62.3	61-1	9.89	47.8	43.0	41.3	48.6
1873.	filled to seek to No. 50 or State on the seek to select the seek on the seek of the seek on the seek of the seek o	9	70	=	14	-1	27	6.	Ξ	18	90	0	10	NG.	133
	Habnish	1	7000	1.76	5.66	0.77	2.545	1.65	91.9	3.435	5.13	1.86	1.83	0.975	29-255
	Temperature			65.05	44.0	47.6	49.3	28.89	0.59	60.3	27.0	47.1	41.3	41-1	8.67
1872.	fighte no read to N or S of S		54	121	120	10	=	15	==	10	00	19	90	17	167
	Medininst		4.750	3.410	2.365	3-925	2-265	5-770	3.265	3.810	2.645	4.650	3.475	4.505	45-135
1	Temperature	0	10 00 00	42.5	44-1	47.6	53.6	2.49	2.62	61.7	9.00	9.69	37.7	39.0	0.69
1871.	No. of days on which to dast as lock of the days of an inch of the days of the days of the days of the days of the days of the days of the days of the days of the		0	6	90	10	1-	11	17	0	=	21	4	6	113
	Heinfell.		1.485	1.730	1.240	3.820	2.165	3.005	4.220	2:180	010-9	1.955	0.835	1.615	30.620
	Temperature		38.0	36.0	9.09	10.1	53.9	60.7	61.2	61.0	55.4	20.2	40.7	00 64 69	10
1870.	and days on which of the strain of the street the strain of the street the street of the street	N N	13	10	9	10	1-	7	10	10	1-	16	11	13	0 102
	Hebnish .		2.582	2.300	1.660	0.915	1.300	0.785	1:270	1.720	0.800	6-215	2.195	2.202	23.650
	Temperature.	0	41.6	45.3	36.2	8.69	20.5	9.99	63.6	9.09	01 00 20 20	9.65	44.3	36.5	49.3
1869.	and the section of th	n T	12	120	0	00	17	t-	01	90	13	90	0	13	6119
	Hainfall		3.460	3.075	2.500	1.825	5.745	1-210	0.580	1.260	4.105	1.660	2.035	4.002	31.460
	Lemberature.	. 0	37.9	43.1	144.1	47.0	56.9	61.3	65.3	62.59	57.6	47.0			8.09
960	didder an eyeb to a to dool as to saften bostesses as w one	10	03	12	100	0.	10	-	60	10	1-	11		CH	0 116
	HalmiaH		0.550	1.890	2.920	1.935		0.190	0.395	5.515	19		1.815	9	29-620
	MONTH.		January	February	March			June		t		October		December	YEAR



TABLE XIV.

NEW CASES OF DISEASE COMING UNDER TREATMENT DURING THE YEAR ENDING DECEMBER 28th, 1878, AT THE FOLLOWING INSTITUTIONS, &c.

The second second	1-0		the second second	The state of the last			11 00	
DISEASES.	I.	II.	III.	IV.	v.	VI. Out-door	VII.	TOTAL
DISEASES.	General Hospital.	General Dispensary	Queen's Hospital.	Children's Hospital.	The Work- house.		Boro' Hosptl.	TOTAL
Small Pox		•••	***			3	20	23
Measles	7	21	11	10	11	13		73
Scarlet Fever	68	95	51	205		281	424	1,124
Diphtheria	6	7	16	32	1	3		65
Whooping Cough	17	31	33	1,247	83	87		1,498
Croup	4	1	5	7	1	1		19
Diarrhœa	1,044	107	388	2,441	92	372		4.444
Dysentery	4	1	1	1				7
Asiatic Cholera		2300		1				
Erysipelas	28	18	44	18	26	21		155
Continued Fever	***						1	1
Typhus				***				
Typhoid	32	34	30	58	25			179
Relapsing			***	***	***	3		3
Febricula	29	12	29	344	10	348		772
Ague	4		4					8
Rheumatic Fever	41	52	78	6	2	46		225
Puerperal Fever	**	3				17		20
Bronchitis & Catarrh	670	1,010	900	2,502	498	1,696		7,276
Influenza	1	59	4	11				75
Pleurisy & Pneumonia	98	117	103	123	25	32		498
Phthisis	425	959	523	105	201	170		2,383
Constl. Syphilis	302	94	373	263	266	20		1,318
All other Diseases	14,427	9,714	9,799	9,383	2,901	3,453		49,317
Accidents	10,435	106	6,642	85	96	9		17,373
Totals	27,282	12,441	19,034	16,841	4,238	6,576	444	86,856

The above returns are made by (I.) Howard G. Lowe, Esq.; (II) J. H. Palmer, J. M. Taylor, and C. Gosling, Esqrs.; (III.) J. Spofforth, Esq., M.R.C.S., and J. Wood, Esq.; (IV.) W. Rhodes, A. Cardew, M.R.C.S., and T. Richards, Esqrs.; (V.) A. B. Simpson, Esq.. L.R.C.S.; (VI.) V. G. Coulton, Esq., Clerk to the Guardians; (VII.) William Bates, Esq., B.A., Surgeon to the prough Hospital.

## TABLE XV.-WATER: RESULTS OF ANALYSIS

1878.         CORPORATION SUPPLY.         6°·6         26·30         ·248           Jan. 10th         Rear of 46, Miles Street         6°·1         33·08         ·081           Feb. 5th         2 Court, Skinner Street         6°·1         31·36         ·118           Mar. 5th         21 Court, Heneage Street         6°·7         24·30         ·303           April 10th         19 Court, Lancaster Street         12°·2         21·46         ·130           May 7th         9 Court, Fordrough Street         20°·0         24·90         ·143           June 12th         16 Court, Carver Street         17°·2         20·20         ·372           July 12th         12 Court, Bordesley Street         17°·7         33·80         ·139	·024 ·029 ·047 ·044
Jan. 10th       Rear of 46, Miles Street        6°·1       33·08       .081         Feb. 5th       2 Court, Skinner Street        6°·1       31·36       ·118         Mar. 5th       21 Court, Heneage Street        6°·7       24·30       ·303         April 10th       19 Court, Lancaster Street        12°·2       21·46       ·130         May 7th       9 Court, Fordrough Street        20°·0       24·90       ·143         June 12th       16 Court, Carver Street        17°·2       20·20       ·372         July 12th       12 Court, Bordesley Street        17°·2       20·20       ·372	·024 ·029 ·047 ·044
Feb. 5th         2 Court, Skinner Street         6°·1         31·36         ·118           Mar. 5th         21 Court, Heneage Street         6°·7         24·30         ·303           April 10th         19 Court, Lancaster Street         12°·2         21·46         ·130           May 7th         9 Court, Fordrough Street         20°·0         24·90         ·143           June 12th         16 Court, Carver Street         17°·2         20·20         ·372           July 12th         12 Court, Bordesley Street         17°·2         20·20         ·372	·029 ·047 ·044
Mar.         5th         21 Court, Heneage Street          6°·7         24·30         ·303           April 10th         19 Court, Lancaster Street          12°·2         21·46         ·130           May 7th         9 Court, Fordrough Street          20°·0         24·90         ·143           June 12th         16 Court, Carver Street          17°·2         20·20         ·372           July 12th         12 Court, Bordesley Street          17°·2         20·20         ·372	047
April 10th       19 Court, Lancaster Street        12°·2       21·46       ·130         May 7th       9 Court, Fordrough Street        20°·0       24·90       ·143         June 12th       16 Court, Carver Street        17°·2       20·20       ·372         July 12th       12 Court, Bordesley Street         17°·2       20·20       ·372	-044
May 7th 9 Court, Fordrough Street 20°0 24.90 .143  June 12th 16 Court, Carver Street 17°2 20.20 .372  July 12th 12 Court, Bordesley Street 17°2 20.20 .372	100000000000000000000000000000000000000
June 12th 16 Court, Carver Street 17°·2 20·20 ·372	100000000000000000000000000000000000000
July 12th 12 Court, Bordesley Street	A CHARLES OF THE RESIDENCE OF
Aug. 12th 27 Court, Sherlock Street " 160-1 26-00 141	
Sep. 11th 6 Court, Vauxhall Road 110-1 27-00 238	
Oct. 11th 38, Gibb Street 24.80 .255	10000000
Nov. 13th Rear of 29, Lord Street	-
Dec. 15th   152, Sand Pits 100.0   90.75   900	
Average results, 1070 1000 95.14 .970	100
11 11 1011 1000 25 12 200	
90.8 27.70 .285	100000000000000000000000000000000000000
11 1010	
Jan. 7th Stone's Buildings, College St. (Whooping) 87.0	rather
	large
114.8	moderate
G. H. J. Grand Housen Street (Scarlet) 130-0	moderate
" Lee Crescent Ter., Lee Crescent (Whooping) 80.8	rather
" 3 Ct., & No. 60, Up. Gough St. (Measles) 132.0	very large
" Springfield Terrace, Spring Street 66.0	moderate :
" " 67, Gough Road 61.0	large
9th 3 and 4 Courts, Hollier St. (Whooping) 195.8	very large
" St. Michael's Ter., Factory Rd. (Scarlet) 122.0	11
" 5 Court, Long St. (Whooping Cough) 229.8	moderate
" 5 and 6 Courts, Kent Street North 196.0	large
" 10th 24 Court, Lower Tower Street (Whooping) 211.0	very larger
" " 13 Court Lancaster Street 246.0	11
" " 22 Court, Bordesley Street 162.8	very large
" " 5 Court, Newtown Row 267.0	
" 8 Court, Vauxhall Road (Scarlet Fever) 185.8	very large
" " 1 Court, Cotton Row 283-0	
15th 20 Court, Alcester Street (Measles) 248.2	large
" " 13 and 15, Sun Street West (Whooping) 61.1	-11
and 2, Proteine villas, Dolobian Md 620	very larger
901 D 1 D 1	
" " 363 and 364 Pershore Road 101.0	311
17th 22 Court, Gt. Russell Street (Faver) 94.9	-11
" " 34 Court, Summer Lane (Whooping)	
" " 134, Icknield Square, and 261—265,	"
Monument Road (Scarlet Fever) 69.0	111
" 168 and 169, St. Vincent Street 76:0	moderate
" " 18 and 19, Cattell's Grove (Diarrhoga) 120.0	"
" " 41 and 42, Austin Street (Whooping) 70.4	very larges
Jo, Heath Street (Lyphoid)	rather larges
" 4 and 48, Ickmeld Sq. (Scarlet Fever) 112.0	very large
" Ta and 45, Lodge Road (Mossles)	rather true
"   Court, Sherlock Street	ratherlarges
or and so, Priston Street (Typhoid)	rather large
" " 11 Court, Barford St. (Whooping Cough) 363.4	rather large

	Nitrogen as Nitrates	Total	Previous Sewage			Hardness.		
mmonia	and Nitrites.	Nitrogen.	or Animal Contam- ination. (Estimated)	Chlorine.	Tempor- ary.	Permanent.	Total.	REMARKS.
		-						
.004	.341	.423	3120	1.9	80.3	70.7	16°·0	Clear
.002	.220		1890	1.4	70.4	100.0	170.4	Clear
.001	.209		1780	1.4	90.3	90.5	180.8	Clear
.002	.321	-369		1.9	60.1	70.7	130.8	Slightly turbid
.005	.220		1920	1.9	40.7	90.3	140.0	Turbid
.003	.198	100 100 100		1.9	70.2	70.3	140.5	Clear
.004	.143		1140	1.5	50.9	60.1	120.0	Clear
.005	.209		1810	1.7	130.1	70.1	200.2	Clear
.002	.099		686	1.7	70.8	80.7	160.5	Slightly turbid
.003	.110		800	1.5	100.9	90.3	200.2	Clear
.003	-209			1.6	90.0	60.0	150.0	Rather turbid
.003	.330	000000	3000	2.0	90.1	100.1	190.2	
		700000000000000000000000000000000000000			90.2			Nearly Clear
.003	217	7 20 70 70	1870	1.78		80.2	170.4	
002	-261	.253		1.65	70.2	80.3	150.5	
.002	.230	1 1000000000000000000000000000000000000			60.3	100.2	16°.5	120.00
.0025	.166	.250	1420	1.78	60.9	12°-5	190.4	
-006	2.20	2.205	21730	10.8				Clear
.007	1.10	1.106	10740	22.3				Clear
.004		-663						Clear
.048		6.639						Clear
.003		3.33	33000					Clear
.004	3.08	3.083			***	1000		Clear
.004		2.863					***	Clear
.005	The state of the state of	1.324		100000				Clear
.004		6.053	The state of the s		1			Clear
.005		6.722	The second second					Clear
.004			105310				***	Clear
-004			65710					Clear
.006			105310		***			1200000
				The second second			***	Clear
1.000		7.423			***			Clear
.007	1 20 10 10 10 10	5.176			17.5	***	***	Clear
.085		9.966		The state of the s		***	***	Clear
.004		7.703		The second second		***	22.5	Clear
.300		4.977	The second secon	TOTAL STREET	***		***	Clear
.006	The second	9.355	Market Company of the					Clear
.018		2.765		W 100				Clear
.005	1		0					Clear
.004			0				***	Clear
.006		3.525						Clear
.006		3.525			***			Clear
.008		2.756		The second second	***		***	Clear
.003	2.42	2.422	23900	30.6	***		***	Clear
00.1	0	0.000	05010			6, 3	11.23	-
.004		2.533						Clear
.002		3.742		1 3 3 5 5 5 5 5 5				Clear
.004		3.303						Clear
.004		2.313						Clear
.007	Charles and the contract of	3.506		4.4				Clear
.250	4.40	4.606	45740	16.5				Clear
.005		3.524	34920	8.9	NA			Clear
.030	3.96	3.985		The second second				Clear
.006		3.415			1			Clear
	3.52	3.536		29.5		1		Clear

1	Recei	e of pt of apple.	DESCRIPTION.	Temp. C.	Total solid Impurity.	Organic Carbon.	
Jan. 23rd   134 and 315, Coventry Road (Searlet)   1712   208-0   very   140—145, Grange Road   131-0   131-0   141   141   141   155, Greenway Street   202-0   very   142   48 and 49, Hawkes Street   202-0   very   284   53   Court, Farm Street   261-2   53   Court, Farm Street   261-2   54   284   53   Court, Farm Street   261-2   54   Caremont Place, Dolobran Road   156-0   62   284   63   Caremont Place, Dolobran Road   156-0   64   48   46   65   George Street West, and   37   Court, Prescott St. (Typhoid)   39-0   39-0   30th   111   and 112, Sampson Road   198-0   very   17   Court, Prescott St. (Typhoid)   39-0   3	18	78	WELL WATERS(continued).				- 1
1			314 and 315 Coventry Road (Scarlet)		A SECOND SECOND		ratherlan
140—145, Grange Road   96-0   very   114 and 115, Greenway Street   96-0   very   24 Court, Darwin Street   202-0   101-4   12   12   12   13   101-4   101-			10 Court Emily Street			***	excessiv.
114 and 115, Greenway Street					The second secon		large
1			114 and 115, Greenway Street	***	No. of the last of		very large
1			24 Court. Darwin Street				11
1	1		48 and 49. Hawkes Street				11
							- 115
							11
Hampstead Place, Dolobran Road, (Whooping Cough)			Claremont Place, Dolobran Road		50.0		11.
(Whooping Cough)  1, Winson Green Road  1, Winson Green Road  1111-2  111-2  111-2  111-2  111-2  112-0  113-2  113-3  113-2  113-3  113-3  113-3  113			Hampstead Place, Dolobran Road,				
1, Winson Green Road		- "	(Whooping Cough)	***			rat he large
111 and 112, Sampson Road.   111 and 112, Sampson Road.   37 Court, Prescott St. (Typhoid)   39 0   198 0				***	99.0		
				***	111.2		very large
37 Court, Prescott St. (Typhoid)   39.0   mode			64 and 65, George Street West, and				
Feb. 1st 17 Court, Bell Barn Road (Fever)   140.0   140.0   17 Court, New John St. (Scarlet Fever)   190.4   17 Court, Sell Barn Road (Fever)   190.4   133.2   133.			37 Court, Prescott St. (Typhoid)		39.0		moderates
Feb. 1st	,,	11		***	198.0		very larger
1		1st			140.0	***	ratherlarge
1		11			190.4		
101—105, Cuckoo Road	11	5th			133.2		very larges
1	11	11	The state of the s		128.0		11
1	11	11	1, Lorne Terrace, Argyle Street		82.0		
The_Hollies and The Laurels, Hickman Road    15th	11	.11			80.0		
The Hollies and The Laurels, Hickman Road	11	11			120.0		very large:
15th   9 Court, Navigation Street   141.0   12 Court, Suffolk Street   112.0   12 Court, Suffolk Street   112.0   12 Court, Suffolk Street   112.0   12 Court, Ryland Street, and 7 Court, Darwin Street   322.2   203.0   136.0   1 Court, Upper Highgate Street, and 8   Court, Leopold Street (*Cough*)   163.4	11	11					100
12 Court, Suffolk Street			man Road		72.4		
12 Court, Suffolk Street	11	15th	9 Court, Navigation Street		141.0		very large:
Darwin Street	11	11			112.0		
13 Court, Lombard Street   203.0   very to the court   1 Court, Upper Highgate Street, and 8   Court, Leopold Street (Whooping)   136.0   136.0   141—45, Oughton Place (Whooping)   163.4   163.4   178.6	-11	- 11	4 Court, Ryland Street, and 7 Court,			100000	
1 Court, Upper Highgate Street, and 8   Court, Leopold Street (\(\frac{Whooping}{Cough}\)   136.0     136.0     1					322.2		***
1 Court, Upper Highgate Street, and 8   Court, Leopold Street (\begin{align*}{c} \text{Viscoping} \text{)} \\ \text{12} \text{ 41—45, Oughton Place (\begin{align*}{c} \text{Viscoping} \text{)} \\ \text{163.4} \\ \text{17.86} \\ \text{18.87} \\ \text{19.87} \\ \text{10.87} \\ 10	11	11			203.0	***	very large
1	11	11					
1			Court, Leopold Street (Whooping)		136.0		11
20th	11	180000000	41—45, Oughton Place (Whooping)		163.4	***	11
12 Court, Cheapside (Diarrhoea)   321·8   166·0   16	-11	20th	8 and 9, Frank Street (Typhoid)		178.6		11
12 Court, Cheapside (Diarrhea)   321.8   166.0   166.0   166.0   166.0   166.0   165.4   17 and 18, Newdegate Street   159.6   17 and 18, Newdegate Street   159.6   18 Court, Meriden Street (Whooping)   202.8   19.1   18 Court, New Canal Street (Diarrhea)   919.1   18 Court, Allison Street   334.0   19.1	-11	50				***	11
11	1000		12 Court, Cheapside (Diarrhœa)				11
117, Great King Street (Scarlet Fever)		1000000	23 & 24 Courts, Wheeler St. (Scarlet)		166.0		
159.6	100		117 Courts, Wheeler St. (Scarlet)		4 TO SEE T	***	****
1		100000000000000000000000000000000000000	17, Great King Street (Scarlet Fever)				
1					B0000000000000000000000000000000000000	***	
26th   5 Court, Allison Street   334·0   66·8   197·4   1   245 & 246, Bell Barn Road (Fever)   66·8   197·4   1   27th   1 Court, Cromwell Street   197·4   152·6   152·6   1   1   1   1   1   1   1   1   1			8 Court Now Cough Street ("Rooping)			***	
" " 245 & 246, Bell Barn Road (Scarlet) 66.8 " 42 Court, Cromwell Street 197.4 " 27th I Court, Tower St. (1st pump) (Scarlet) 152.6 " 1 Court, Tower St. (2nd pump) (Scarlet) 165.8 " 22—25, Rodway St. (Whooping Cough) 47.8 " 36—41, All Saints' Road 102.0 " " 23—25, Piddock St. (Whooping Cough) 135.8	100		5 Court, New Canal Street (Diarrhea)			***	***
1			245 & 246 Poll Down D. 1 Country		Property of the second	200	***
1   1   1   1   1   2   2   2   2   2		- 07	42 Court Crommall Street				ratherlarge
1 Court, Tower St. (1st pump) (Search   152.6   165.8   165.			I Court Tower St (let			999	very large
" " 22—25, Rodway St. (Whooping Cough) 165·8 165			1 Court Tower St. (1st pump) (Scarlet)			1000	very large
" " 26—41, All Saints' Road 102.0 102.0 very la 135.8	1000		22-25 Rodway St. (Will pump) (Scarlet)				
" " 2 Court, Farm Street (Fever) 135-8 very li		10	36—41. All Saints' Poor			***	moderate
II II 23—20. Piddock St / Whashing C. 13			2 Court, Farm Street (Farm)				very large
- Thursday (Wildoping Cough) 148.4	300		23—25. Piddock St (Whomis C		ECHELO SELO SELO SELO SELO SELO SELO SELO S	***	
very li			, Lindock Cu (Whooping Cough)		148.4		very large

I		Nitrogen as	Total	Previous Sewage			Hardness.		
^	mmonia	Nitrates and Nitrites.	Combined Nitrogen.	Contam- ination. (Estimated)	Chlorine.	Temporary.	Perman- ent.	Total.	REMARKS.
ı	000	7.01	0.470	84380	10.1				Clear
П	.800	7.81	8.470		18·1 15·4		***		Clear
П	.008	4.40	4.406	43740 30530			***		Clear
Ш	.006	3.08	3.085	45950	8.8				Clear
Ш	.009	4.62	4.627	55090			***	***	Clear
П	.050	5.50	5.541	32740	9.0	***	***	***	Clear
П	.008	3.30	3.306	43000	31.9				Clear
п	1.120	3.41	4·330 3·337	33050		***	***		Clear
ı	.145	THE PERSON NAMED IN	9.991		1.4			***	Clear
ш	.010	trace	***	***	1 4	***	***	***	Clear
п	.007				2.2			1000	Clear
н	.040	.55	.583	5510	-				Slightly turbid odour
н		.55	.909						Slightly turbid
н	.009	trace	***	0	10.0				Slightly turblu
н	.004	1.10	1.103	10710	5.4				Clear
	.004	1 2 2 2				***			Clear
	.008			109750			***		Clear
	.016				The state of the s	***	***	***	Clear
	.100		100000000000000000000000000000000000000						Clear
	.006					***	***	***	Clear
н	.006		1 7 7 7 7		1 1000	***	***		Clear
н	.046		1.908			***	***		Clear
п	.015		1.716						Clear
н	.005	1.87	1.874	18420	121	***			Clear
ı	0.000		1.700	16740	6.2			1 1 1 1 1 1 1 1	Turbid, yellow, odour of
	2.080		1.706				***		Sewage Clear
	.007	4.40							Clear
	.004	4.29	4.293	42610	11.9	***			Cicar
и	.010	9.50	3.533	35010	00.0			182	Clear
н	.016	1 0000000			Control of the Contro	17.5			Clear
п	.006	5.50	5.505	54730	19.0				Cioni
н	.004	1.34	1.433	14010	14.2		1000		Clear
ш	·004	1 10 70 7	1 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		10.0				Clear
		3777770			14.4	***			Clear
	·006	1000 0000		The second second second				***	Clear
	-003			131690					Clear
	2.050	1 100 - 100 0		100000000000000000000000000000000000000					Clear
1	120		20 - East 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10			***			Clear
1	250		The state of the s			***			Clear
	450				100000000000000000000000000000000000000				Clear, resilue brown
	.540					***	***		Clear
	.030	1000000				200	100		Clear
	1.800			3 111310	THE RESERVE AND A SECOND SECON	1	1111		Clear, residue brown
	.004		75 TO 180 TO 180 TO 180						Clear
	.003								Clear
	.00:						***		Clear
	.150	N. C. C.	30 30.50		CONTRACTOR OF THE PARTY OF THE		***		Clear
	.00:						***		Clear
	00:	100 100 100	23		20 20 20				Clear
	-530	31 31 5			0 10.2				Clear
	.00	3 97.190				***	***		Clear
1	00	10	1 01	1 1042	0 122	3.75	***		
1	-	-					1		

Receip		DESCRIPTION.	Temp. C.	Total solid Impurity.	Organic Carbon.	Organic Nitrogen.
	-	THE THE MAN (continued)				1 3
187		WELL WATERS—(continued).				
Mar.	5th	159 and 160, Ledsam St., and 171 and		119.6		
		172, St. Vincent St. (Scarlet Fever)		114.8	***	very large
11	11	8 Court, Kent Street, (Scarlet Fever)		105.8	***	ratherlarge
11.	11	40 & 41 Cts., Irving St. (Scarlet Fever)		132.0	**	moderate rather
11	9	22 and 22½, Hick Street	***	222.0	***	large
11		5, Glover Street (Diarrhœa) 2 Court, Lawley Street	***	244.4	***	very large
111	741	M. Contract of Marie Land		150.6		rather
.11	7th	22, Friston Street (Scarlet Fever) 38 and 39, Cambridge St. (Diarrhœa)		149.8		large
"	"	14 & 15, Turner St. (Whooping Cough)		123.8		
11	"	43 and 44, Cregoe Street		146.0	**	large
"	"	73 and 74, Summer Rd. (Diphtheria)		177.4	220	
"	15th	191 and 192, Cheapside		269.6	***	very large
11	1961	62—68, William Edward Street		151.8		11
11.	11	22 and 23, Adelaide Street		108.0		
"	"	79—82, Bridge Street West		64.8		moderate
"	"	12 Court, Inkerman Street		164.4		large
"	18th	101—105, Cuckoo Road		132.6		
11	11	Back 106, Cuckoo Rd. (Scarlet Fever)		90.8		
115	11	33 and 34, Lee Crescent		42.0		very large
11	19th	Edgbaston Ter., Bell Barn Rd. (Typhoid)		158.8		large
111	11	13 Court, Bell Barn Road (Typhoid)		164.4		rather
	22nd	79 and 80, Freeth Street (Diphtheria)		103.6		large
11	11	9 and 10, Spring Hill		124.8		
11	0	110 and 111, Inkerman Street		81.8		
11	0	112 and 113, Inkerman Street		86.0		rather
11	23rd	47 and 48, Great King Street		80.8		large
11	11	82 & 83, Well St. (Whooping Cough)		123.9		
11	26th	4 Court, Lennox Street (Fever)		107.6		moderate
11	11	21 Court, Alcester Street		198.8		very large
11	11	4 Court, Conybere Street (Measles)		174.8		small
11	11	30-33, Sandy Lane (Small-pox)		122.0		small
11	- 11	61 and 62. Main Street (Diarrhoea)		113.8		very large
11	29th	78 and 79, Well Street (Whooping)		67.4		small
.11	11	19 Court, Bromsgrove Street		146.6	***	very large
11	11	18—20, Court, Bromsgrove Street		204.8	***	very targe
11	11	6 Court, Lancaster Street (Diarrhœa)		148.0		
11	11	103 and 104, Bridge Street West		64.8		
11 A	"	97 and 98, Burbury Street	***	264.4		
April		81 and 82, Balsall Heath Road		93.6		
- 11	11	68-70, Bloomsbury Place		197.6		very large
"	-11	11, Varna Road		129.0	***	11
"	11	22 and 23, Henry Street		192.8	***	large
"	"	154—159, Ashted Row (Typhoid)	***	204.4	***	very large
"	5th	1 Court, Canal Street (Scarlet Fever)		266.0		···
"	oth	104 and 105, Inkerman Street (Scarlet)	***	114.6		very large
"	11	117, Wheeley's Road	***	147.6		large
"	11	1 Court, Palmer Street		251.0		very large
1	"	62 and 63, Navigation Street 5 Court, Curzon Street		156.8		11
11	"	285 and 286, Watery Lane	***	72.4		
		THE WHILE STOP AND ADDRESS OF THE PARTY OF T		146.0		large

	anta	Nitrogen as Nitrates	Total Combined	Previous Sewage or Animal	Chlorino		Hardness.		DEMANA
Amı	monia	and Nitrites.	Nitrogen.	Contam- ination. (Estimated)	Chiorine.	Tempor- ary.	Perman- ent.	Total.	REMARKS.
	.009	9.68	9.687	96550	12.4				Clear
	.009	6.60	6.607	65760					Clear
	.005	5.39	5.394	53620	13.5				Clear
	.005	1.98	1.984	19520	6.3				Turbid
	.006	2.20	2.205	21730					Clear
	.005	4.40	4.404	43720					Slightly turbid
	.005	6.71	6.714	66820 17570	14·0 37·3		***		Clear
	·036	1·76 2·75	1.789 2.923		1.1	***	***	***	Slightly turbid Clear
	.005	3.85		38220		***			Clear
	.006			71230					Clear
	.006								Clear
	.005	2.20		21720	13.2	***			Clear
	$\cdot 002$	3.3	3.301	32690					Clear
	.002	2.75	The second second	27190	8.1				Clear
	.003		1 10 10 10 10	60204	10.8				Clear
	.027	4.95		77 70 70 70 70	1000			***	Clear Clear
	·005	2.20		8490		***	***		Clear
	.003	6.60			1 2 2 2				Clear
	-002	6.60		65690					Clear
	.005	3.85	The state of the s						Clear
	.040	3.30	3.333	33010	26.0				Clear
	.020								Clear
	.004	3.30							Clear
	.004	4.18							Clear
	.050	5.50	1 2 2 2 2	55091 19680	15·8 9·7		***		Clear Clear
	·012	1.98 6.82			The state of the s				Clear
	.001	2.75			100 000 000				Clear
	-001		100-100-100						Clear
	.003				1 120 100	***			Clear
	.002		2.311	22890	9.3				Clear
	.010								Clear
	.365		The second second						Clear
	015							***	Clear Clear
	420			19640 144090				***	Clear
2	2·850 ·800				100000000000000000000000000000000000000		***		Clear
	.007			142740					Clear
	.003		The state of the s						Clear
	.004				0.000 000				Clear
	.004			71210	25.8				Clear
	150		The second second	The Contract					Turbid
	.005				21000 00			***	Clear
	:003								Clear
	.006			120730 54780			***		Clear
	·012						***		Clear
	.005				1 10 100 100				Clear
	000	0.00	0 004	00020	200	1			

Date Receip Samp	t of	DESCRIPTION.	Temp. C.	Total solid Impuity,	Organic Carbon,	Organic Nitrogen
187	0	WELL WATERS—(continued).				
April	9th	2 Court, Pershore Street		77.6		
aprii	11	Ryland Ter., Ryland Street, Deritend				
- 11		(Measles)		215.6		large
11	"	8 Court, Vaughton Street (Scariet )		197.0		
11	11:	23 and 24, Friston Street		116.0		rather
11	11	134, Icknield Square, and 339-343,				
		Monument Road	**	72.4		large
11	11	67 and 68, Dean Street (Whooping)	***	74.0	***	
11	12th	136 and 137, Inkerman Street	140	201.6		***
11	11	140 and 141, Inkerman Street		156.6	***	***
11	-11	4 Court, Curzon Street (Scarlet Fever)	***	89.0	***	
11	11	14 Court, Bordesley Street	***	179.8	0.000	222
11	.11	23, Bordesley Street	***	112.4	***	very larg
11	11	- 10 11111 01		86.0	***	
11	11	7 and 8, Adelaide Street	***	136.0		very larg
11	15th	20, Cambridge Crescent		86.0		11
11	11	137 and 138, Bath Row		122.6		***
11	18th	162 and 163, Bristol Street (Typhoid)		163.0	***	very larg
11	11	118 and 119, Wheeley's Road		171.8		"
11	.01	Back 71 & 72, South Road (Typhoid)		231.4	***	***
11	11	20 and 21, Exeter Row		155.0	. ***	
11	0541	3 Court, Norfolk Street (Diphtheria)		67-6	***	very larg
"	25th	149 and 150, Well Street	-	173.6	***	***
"	11	2 Court, Freeman Street (Fever) Victoria Terrace, Great King Street		135.0	***	***
111	"	1 and 0 Ct Mantin's Lane		71.8	***	
11	26th	OK Carallhanale Chanat		180.4		***
11	11	15 and 16 Drintel Church		158.0		very larg
11	"	13 Court, Warwick Street (Diarrhea)		234.6		moderati
11	11	97 and 98, Coventry Road		121.6		
	"	Back 50, Bordesley Park Road		55.0		large
11	11	314, Bradford Street (Scarlet Fever)		37.8		
11		Paradise Terrace, Darwin Street	1	184.4		very larg
111	11	Stoke Square, Hick Street (Typhoid)		118.0		11
May	1st	76 and 77, Long Acre, and 53 and 54,		1		
100		Railway Terrace (Scarlet Fever)		97.6		large
- 11	.01	79 and 80, Herbert Road (Whooping)		107.4		11
31	11	91—94, Lord Street		168.0		
11	11	17 Court, Nelson Street South, and 88	3			1 .
		and 89, Sherlock Street (Scarlet)	1	271.0		
111	11	11 Court, Navigation Street (Scarlet)		178.0		very lar
11:	"	146 and 147, Grange Road		136.0	***	***
11:	3rd	214 and 215, Nechells Park Road		79.0		excessi
"	11	228, Nechells Park Road		119.2		
"	"	29—32, Vale Street		287.0		
"	11	83, Smallbrook Street		169.0	***	very lar
"	11	84, Smallbrook Street		172.0	***	11
"	7+1	1 Court, Henn's Walk		42.0		larg
"	7th	28 and 29, Weston Street		178.0	***	
"	"	5 Court, Vale Street		251.4		
"	11	6 Court, Vale Street		368.0		***

		Nitrogen as Nitrates	Total	Previous Sewage or Animal	and the land		Hardness.		
Am	nmonia	and Nitrites.	Nitrogen.	Contam- ination. (Estimated)	Chlorine.	Temporary.	Permanent.	Total.	REMARKS.
	1.500	2.09	3.320	32880	8.5				Clear
ш	.004	3.30	3.303	32710	15.8				Clear
ш	.500	4.51	4.920	48880	27.1		***		Clear
П	.004	6.49	6.493	64610	13.7				Clear
				1000000					
	.008	3.85	3.857	38250		2.22		***	Clear
	1.150	1.54	2.486	24540	5.3				Clear
1	3.300	14:30	17.016	169840 110340	18·5 19·1			***	Clear
	·750	10·45 3·30	11.066 4.288	42560	11.3	***			Clear Clear
	.017	-22	234	2020	25.1	***	***	***	Clear
	.005	4.40	100000000000000000000000000000000000000	43720	11.3	***		***	Clear
	.250			45740	7.9				Clear
	.004	6.05			9.9		***		Clear
	.003			27200	5.1				Bright, with some particles
	.050	6.05	6.091	60050	18.5		***		Turbid
	.005	2.86	2.864	28320	9.4				Clear
	.004	1.98	1.983	19510	42.0				Clear, with small particles
1	2.000			82180	13.2				Clear
	.040		10.813		23.2	***			Clear
	.004	2.97	2.973	29410	36.2			***	Clear
	.022		5.628	55960	10.5	***		***	Slightly turbid
1	035 $2.500$			21970 78570	31·0 18·2	***	***		Clear
1	028		E		12.5			***	Clear Turbid, contains many
	-009			71250	22.6	***	***	27.7.5	Clear, contains many
-	.065		0.000000	88210	15.1			***	Clear
	.003			76700	28.0				Clear
1.	.002	20,000			7.8				Clear
	.006	-99	.995	9630	2.5				Clear
1	.230	0.0	.189	1570	2.3				Slightly turbid
	.006								Clear
	.005	3.30	3.304	32720	6.2				Clear, many suspended particles
	.008	3.30	3.306	32740	12.5				Clear, with many sus- pended particles
	.005		700000000000000000000000000000000000000				***	***	Clear
	.410	3.96	4.298	42660	26.8				Clear
	1.000	7.92	8.743	87110	29.5				Clear
	.008	100 0000		The second second	The second second				Clear
	.125								Clear
	.008	2.64	2.646	26140	5.4			***	Clear
	1.650	5.50	6.853	68210	11.2				Clear
	.240		7 7 7 7 7 7 7	121560	TOTAL POST OF THE PARTY OF THE				Clear
	.005		The second second		Contract Contract			***	Clear
	.004		The state of the s			***	***		Clear
	.005		1000000				***	***	Clear
1	1.000		100 100 100 100 100			***			Clear Clear
1	1.020 .530		The second second second	120270 $191030$					Turbid
	000	10.10	19.199	191090	44.4				Lurbia
-			1	-		1			

Date of Receipt	f DESC	RIPTION.		Temp.	Total solid Impurity.	Organic Carbon.	Organic Nitrogen,
Sample					Impurity.		
-	_						-
1878.	WELL WAT	ERS-(continued).					3
May 7	th   8 Court, Vale Str	reet			259.0		
11	8 Court, Dudley	Street	***	***	153.0		
	7 and 8, Phillips	Street (Diarrh	10ea)		116.0		rather
11 8	th   3 Court, Angelina			***	158.6	***	very large
11	36 and 37, Ledsa				161.4		11
- 0	156 and 157, Led			***	55.0		very large
11	14 Court, Darwin			***	126.0	***	11
11	15 Court, New B	artholomew S	treet	***	101.0	***	
	16 Court, New B	artholomew S	treet		147.0	***	
" 13	0			***	141.0		***
	70—71, Bridge St		rrhœa)		139.4	***	
" 14					184.0		
"	2—10, Little Am			***	108.0		
"	Back 43, Horse F				155.0		very large
The second second	6 and 7, Cross St				186.0		11
11 17			***	***	109.0		
11	377 and 378, Per			***	87.4	***	
11	6 Court, Inge Str		***		290.0	***	***
11 1	12 Court, Inge St				125.0	***	very large
11	1 and 2 Courts, I				207.0		
11					209.0	4.	
11 221			***		119.0	***	very large
" "				***	114-4		
11 1		Street, and 30	Court,				
	Gooch Street				182.0	***	very large
"			***		144.0		large
11 05			ver)		181.0	***	very large
1 25					143.0	***	"
" "					71.0	***	11
11 1					65.4		11
" "		k Road ("Cough	5)		128.0	***	11
" '			nœa)		108.0		moderate
" "			***	***	59.0		11
" 20			***	***	186.0	***	very large
" 29		3		***	95.0	***	"
11 1					112.0		11
11 1					170.0	***	***
" "					35.0		***
" '			***	***	67.0		very large
June 6		7 7 70	Count	***	126.0		large
June 6			Court,		107.0		
	Alcester Street		***	***	197:0		
" !	47 and 48, Prince 7, Varna Road			***	72.0	***	
11 1	247—250, Bradfo	rd Street	***		135.0	***	very large
11 1				CONTRACT DA	157.0	***	"
11 1	Paget's Buildings, 12—15, Dawson S	Street (Trophe	htheria)	100000	146.6	***	"
" 7	h 43 and 44, Thorp				154.0		
" "	3 and 4, Edgbasto		***		161.0	***	large
11 1	9 Court, Charles I		***		148.0		***
11 1	93, Smallbrook St	reet.	***		201.0	***	lamor.
	or, smarstook ist	reet	***		103.0		large
			-				

Ammonia	Nitrogen as Nitrates	Total Combined	Previous Sewage or Animal	Chlorine		Hardness.		DEWARKS
Amatoma	and Nitrites.	Nitrogen.		- Cartalian Carta	Tempor- ary.	Permanent.	Total.	REMARKS.
.420	9.35	9.696	96640		***			Clear
.425	5.06	5.410	53880					Clear
.014	3.52	3.531	34990		400			Clear
.006	2.42	2.425	23930	10.7		***	***	Clear, with many sus- pended particles
.007	8.14	8.146	81140		***	***		Clear
·012	1.65 3.30	1.660	16280	6.5	***	***	***	Clear
-030	1.32	3·307 1·567	$\frac{32750}{15350}$	8·7 5·9	***	***	***	Clear
.035	4.62	4.910	48780		***	***	***	Clear Clear
125	4.62	4.623	45910		***	***	***	Clear
1.800	4.84	6.322	62900			***		Clear
.045	2.20		22050					Clear
.020	1.54	1.556						Clear
.008	6.60					***		Turbid
.003	5.50	1 00 00000				***		Clear
.050	3.74	3.781	37490	10.3				Turbid
.450		2.900	28680	4.2	***			Clear
1.600								
.011	7.70		The second second		1	***		Clear
.004				The state of the s	***			Clear
1.100	10.00							Clear
012			THE RESERVE TO SERVE THE PARTY OF THE PARTY	The second second				Clear
1.500	3.30	4.530	44980	14.5				Clear
.010	5.06	5.068	50360	26.0				Clear
.000	1000					1		Clear
.013						***		Clear
.005			The second secon					Clear
.005		1000						Clear
-007	3.41	The second secon						Clear
.006	7.15	7.155	71230	17.3				Clear
-011		100 00000						Clear
.004	37 37 37 37	A STATE OF THE PARTY OF THE PAR						Clear
.005	11 70 100 1	The state of the s						Clear
.008	A CONTRACTOR	OF THE PERSON NAMED IN						Numerous suspended particles
.003					***	***	***	Clear
3.000		A CONTRACTOR OF THE PARTY OF TH		1				Clear
·017		The second second second second					***	Clear
-004				Section 2 and a section of the secti		2.55	***	Clear Clear
004	20	2010	22010	24.0	***	***		Clear
.017	4.9	4.964	49320	23.6	-		-	Clear
.400								Turbid
.010						1		Clear
.015					1			Clear
.010								Clear
.030	6.27							Clear
.005								Clear
.420		778 103 105 100		THE RESERVE OF THE PARTY OF THE				Clear
-600	3							Clear
.00	9 4.2	9 4.297	7 42650	13.3				Clear
	1		have a				1	

Date of		Temp.	Total solid	Organie	Organie
Receipt of	DESCRIPTION.	C.	Impurity.	Carbon.	Nitrogen.
Sample.			2 3		
		V-100			- 5
1070	WELL WATERS—(continued).				3
1878.			99.6	***	
June 8th	13—17, Angelina Street		218.0		very large
11 11	1 Court, Ryland Street		175.0		11
" 13th	13 Court, Inkerman Street		116.0	**	
11 11	108 and 109, Inkerman Street	***	70.0		
11. 11	9, Argyle Street	****	124.0		
11 11	17, Argyle Street		466.0	***	**
11 11	155, Argyle Street		56.0		very large
11 11	164, Argyle Street	***	229.0		"
" 14th	6, Adelaide Street	***	180.0	***	-11
11 11	8 Court, Lombard Street			***	11
11 11	149, Vaughton Street		105.0	***	moderate
11 11	221, Alcester Street	***	265.0	***	large
11 11	5 and 6, Edgbaston Street		108.6	***	***
11 11	37—39½, Upper Dean Street, and 77,		000		
	10 10 11 0 101		92.0		***
" 19th	40—49, Aston Road (Measles)	***	276.0	***	,
11 11	73 and 74, Caroline Street		104.0		large
1 " "	5, Alcester Street		329.0		***
11 11	16 and 17 Courts, Alcester St. (Scarlet)		206.0		very large
11 11	Back 71 and 72, South Road (Typhoid)		123.6	***	11
0 0	83—87, Emily Street		96.0		30
u 21st	26 Court, Tower Street		145.0		***
11 11	10 and 11 Courts, Lower Hospital St.		90.0	***	very large
11 11	10 and 11, Cuckoo Road	***	108.0	***	11
0 0	12 and 13, Cuckoo Road (Scarlet)		78.0		P
0 0	285 and 286, Heath Street		148.6		
10 11	294, Heath Street		92.0		
11 25th	74, Ford Street		113.0		*** **
0 0	6 Court, Clarke Street		94.0		***
0 0	Cambridge Place, Freeth Street		117.0		very large
11 11	454 and 455, Park Road (Scarlet)		141.0	***	313
11 11	2 Court, and No. 11, Sherlock Street		166.6	***	***
11 11	91, Varna Road		146.0		***
" 27th	$64\frac{1}{2}$ and 65, Well Street		113.0		
11 11	3, Princess Road		179.0		
11 11	4 and 5, Princess Road		183.0	J	
" "	2 and 3 Courts, Blucher Street		188 0		
11 11	8 Court, Bridge Street West		59.6		very large
11 11	The Birchlands, Westfield Road		70.0		large
July 1st	80 and 81, Summer Road		171.0		
11 1	4 Court, Miles Street (top pump)		112.0		
11 11	4 Court, Miles Street (bottom pump)		135.0		
11 11	134 and 135, Aberdeen Street (Scarlet)		131.0	***	***
11 11	203 and 204, Icknield Port Rd. (Scarlet)	***	122.0		
11 11	82 and 84 Cough Pood		100.0		very larger
" 5th	91 and 92, Pershore Street, and 33 and		1000		.11
100000	24 Dramanna Ctanat		205:0		
11 11	11 Court. Bromsgrove Street, and 54,	***	205.0		***
			1000		
11 11	39 Court, Cheapside (Whooping Cough)	111	196.0		***
11 11	15 Court, Alcester Street (Scarlet Fever)		183.0	***	
	(Scariet Pever)	***	147.0	***	large
					100

	Nitrogen	Total	Previous Sewage			Hardness.		
Ammonia	Nitrates and Nitrites.	Combined Nitrogen.	or Animal Contam- ination. (Estimated)		Tempor- ary.	Perman- ent.	Total.	REMARKS.
-008	1.32	1.327	12950	6.8				A CONTRACTOR OF THE PARTY OF TH
-009	2.86	2.867	28350	18.3				Clear
.005	9.02	9.024	89920	16.3				Turbid
.610	6.71	7.212	71800	11.3				Clear
.090	1.21	1.284	12520	4.5				Clear
.150	2.31	2.433	24010	10.2		***		Clear, yellowish
.003	.66	.662	6300	2.0				Clear
.007	1.10	1.106	10740	2.3				Many suspended particles
.004	6.05	6.053	60210	32.5				Clear
.003	7.15	7.152	71200	14.0		***		Clear
.003	2.31	2.312	22800	11.5				Clear
.003	9.13	9.132	91000	40.5	***			Clear
.150	4.18	4.303	42710	18.0				Clear
.250	.66	.806	7740	12.3				Clear
1.300	trace	1.070	10380	48.0				Slightly turbid
.014	6.60	6.611	65790	11.8				Clear
.300	13.20	13.447	134150	59.8				Slightly turbid
.003	6.05	6.052	60200	8.4				Clear
.004	1.76	1.763	17310	23.6				Clear
.015	1.98	1.992	19600	6.9				Clear
-070	9.02	9.078	90460	26.0		***		Clear
.006	2.75	2.755	27230	10.7				Clear
.004	.88	.883	8510	7.0				Clear
.003	3.52	3.522	34900	3.8				Clear
.150	8.03	8.153	81210	19.0				Clear
.200	3.30	3.465	34330	6.2				Clear
-650	6.82	7.351	73190	13.9				Clear
2.000	0.77	2.417	23850	5.2		***		Clear, residue brown
.008	4.95	4.957	49250	11.5				Clear
-007	7.37	7.376	73440	11.9		1		Clear
3.200	4.95	7.585	49250	22.5				Clear
.019	2.09	2.106	20740	10.5				Clear, yellow
.013	4.73	4.742	47100	7.5				Clear
.250		5.376		9.9	]			Clear
.260								Clear
.020	8.58							Clear
.005	1.65			9.1				Clear
.003	1.76			2.6				Clear
.350		8.758						Clear
1.000					***			Clear
-700					***			Clear
2.500			82970	12.5	***			Clear
.009								Clear
.010								Clear, greenish
.500	8.25	8.660	86280	25.0				
1 000	0.05		20000	00.5				Brown Co.
1.200	6.27					***		
.800		1 700 100 100 100						
.003	2.31	2.312	22800	9.5				

Recei		DESCRIPTION.	Temp. C.	Total solid Impurity.	Organie Carbon.	Organic Nitroger
187	8	WELL WATERS—(continued).				
July	8th	29 Court, Summer Lane (Scarlet Fever)		172.6		
-	100000000	15 Court, New John St. West (Fever)		224.0		very large
11	9th	140 and 141, Varna Road		194.0		***
11		110 77 70 1	***	198.0		very large
11	11	120 & 121, Greenway Street (Typhoid)	***	124.0	***	"
11	11	122—124, Greenway Street (Typhoid)		133.0	***	-11
11	.01	12 15 Decite Pd (See Pot Fever)		80.6		-11
111	11	13—15, Braithwaite Rd.(Scarlet Fever)	***	63.0		rather
11	11	50 and 51 Priestley Road	155		***	large.
11	11th	32 and 40, Summer Road (Whooping)	***	82.0		very large
11	11	1 Court, Sun Street	***	198.0	***	large
11	12th	45—48, Bloomsbury Place		183.0		very large
11	11	Prospect Place, Holborn Hill (Diarrhea)	***	151.0		***
11	11	57 and 58, Varna Road		101.6		very large
11	11	6 and 7, Spring Vale (Diarrhœa)		170.0		11
11	17th	440 and 441, Coventry Road		85.0		11
11	18th	Sent by Mr. Councillor Tait from				
		Children's Hospital		72.0		11
11	- 11	46 and 47, Priestley Road		57.0		11
11	11	40 and 41, Friston street (Diarrheea)	***	58.0		
11		44 Court, Bell Barn Road, and Oxford	***			moderate
100		Place, Bell Barn Road (Typhoid)		149.0		
11	- 11	10 Court, Darwin Street (Typhoid)		129.0	***	lange
11	"	119, Digbeth (Typhoid)		289.0	***	large
	19th	9 Count Donague Street		158.0	***	"
"		14 and 15 Palasli Heath Dank	***	88.0	***	***
"	"	19 and 10 Palcell Heath Dead	***		***	
"	.11		***	80.0		very large
"	"	142, Bromsgrove St. (Whooping Cough)	***	158.0	***	moderate
11	11	4 and 5, Johnstone Street	***	61.0	***	
-11	09.3	56 and 57, Johnstone Street		77.0	***	rather large.
11	23rd	15½, Caroline Street		176.0		very large
11	.01	75, Brearley Street West (Scarlet Fever)		177.0		
11	11	19 Court, Bradford Street		164.0		large
0	11	4 and 5, Leopold Street		115.0		11
11	"	56, Newtown Row		209.0	***	very large
11	- 11	"The Cottage," Richmond Hill Road		45.0		11
11	26th	1 Court, Inkerman Street		170.0	***	
- 11	11	2 Court, Inkerman Street		166.0	***	11
11	31	3 Court, Inkerman Street	***	162.0	***	11
11		6 and 7, New Vauxhall Terrace,			***	
		Duddeston Mill Road		75.0	1000	large
11	27th	52 and 53, Stratford Road		76.0	***	
11	11	165—169, Moseley Street		235.0	***	very large
11	11	17-24 New Church Street (Scarlet)	***	192.0	***	lamora
11	30th	32 & 33 Bell Barn Road (Scarlet)	***	132.0		large
	11	3 and 4, Hooper Street, and 12 and 13,	***	1020	***	***
		Dudley Road		120.0		
11	11	114, Hope Street, and 25 Court, Hope	***	130.0		
2011		Street (Scarlet Fover)		1000		
11	11	Back 198 Steiner Hill	***	199.0		
11	"	Back 128, Spring Hill	***	273.0		
	- 10	1 Court, Brearley Street, and 40 Court, Newtown Row				
		Newtown Row		171.0		large

	Nitrogen	Total	Previous Sewage			Hardness.		
Ammonia	Nitrates. and Nitrites	Total Combined Nitrogen.	Contam- ination (Estimated)	Chlorine.	Tempor.	Perman- ent.	Total.	. REMARKS.
.003		4.292	42600			***	***	
1.200		8.688	86560	21.3				Clear
.008	T - T - T - T - T - T - T - T - T - T -	4.406	43740	10.0			***	Clear
.008	5.06	5.066	50340	10.5	***			Clear
.004	5.50	5.503	54710	15.0				Clear
.004	6.49	6.493	64610	13.8				Clear
.003		1.212	11800	5.2				Clear
.005		1.434	14020	4.5				Clear
.005		3.854	38220	6.2				Clear
.001	7.70		76690	20.0				Clear
.003			54700	17.8		***		Clear
1.500	1 10 10 10 10	4.860	48280	29.6				Clear
.006	1.87	1.875	18430	25.0				Clear
.005	1.54	1.544	15120	25.0				Clear
.007	1.98	1.985	19530	5.8				Clear
.004	1.87	1.873	18410	5.5				Turbid
.006	1.56	1.655	16230	3.5				Clear
.004			100000000000000000000000000000000000000	The Contract of the Contract o				Clear
.005	8.80	8.804	87720	15.9				Clear
.004	1 0 0 0	The second second						Clear
.003		E 17 17 17 17 17 17 17	54700					Clear
.500		10 /000 000						Clear
.035	100.000 00	A CONTRACTOR	27470			1		Clear
.006	200 0 00		14030					Clear
.018			60330					Clear
.050		1.911	18790					Clear
.003			23800	100 100				Clear
.005		10.344						Turbid
.060			100000000000000000000000000000000000000					Clear
.005		100000000000000000000000000000000000000						Clear
-007		The same of the sa						Clear
-006	100							Clear
.007								Clear
-004		The second second second	The second second					Clear
-004		The state of the s					100	Clear
-004				The state of the s		***	1000	Clear
1 001	102	. 020	10010	100	***		111	3.000
-005	3.52	3.524	34920	9.4		200		Clear
-005			The second second					Clear
.006								Clear
.004			100 77 CT 100 TO					Clear
.050								Clear
000	7 10	1 111	11100	101		• • • •		CACILL
-200	6.60	6.765	67330	19.9				Clear
.043	-66	-697	6650	28.8				Turbid
3.000			178370					Clear
000	10 10	11 000	1.0010	021			***	Olda
:012	8.25	8.260	82280	28.8				Clear

1878.   WELL WATERS—(continued).   July 31st   170, Green Lane (Diphtheria)     76.0     very large   1						1
1878	Date of			Total		
1878	The Control of the Co	DESCRIPTION.		solid		Organic
July 31st	Sample.		U.	Impurity.	Caroon.	Mittogen
July 31st						
July 31st	1878.	WELL WATERS—(continued).				1 - 3
1				76:0		
Aug. 1st   Back 11, Parliament St. (Scarlet Fever)   100·0   very larg   100·0   Back 12, Parliament St. (Scarlet Fever)   199·0   very larg   100·0   very larg   1						
Back 12, Parliament St. (Scarlet Fever)   99-0						
Brookfield Place, New Spring Street						1
141—144, New Spring Street				The second second second		
13 and 14 Courts, New Town Row   164-0						
1						
13   3   3   3   3   3   3   3   3   3				The state of the s		
1		33 Court Lower Tower Street (Whooping)		The second second		
7th   5   5   5   5   5   5   5   5   5						
14, Oxford Street   242.0   very larger   9th   94 & 95, Hingeston St. (Scarlet Fever)   53.0   very larger   73—76, Main Street (Diarrhea)   132.6   very larger   122 and 23, Erasmus Road, and 51—   54, Auckland Road   78.0   very larger   157 and 58, Erasmus Road   89.0   very larger   159 and 60, Erasmus Road   77.0   very larger   14th   16 Court, Great Barr St. (Diarrhea)   228.0   very larger   150 and 58, Erasmus Road   228.0   very larger   150 and 58, Erasmus Road   228.0   very larger   150 and 60, Erasmus Road   228.0   very larger   150 and 58, Erasmus Road   228.0   very larger   150 and 58, Erasmus Road   228.0   very larger   150 and 58, Erasmus Road   228.0   very larger   150 and 53, Larches St. (Scarlet Fever)   98.0   very larger   152 and 53, Larches St. (Scarlet Fever)   168.0   very larger   152 and 53, Larches St. (Scarlet Fever)   168.0   very larger   168.0   ver				THE RESERVE TO A STATE OF THE PARTY OF THE P		
9th   94 & 95, Hingeston St. (Scarlet Fever)   73-76, Main Street (Diarrheea)   132-6       132-6     13				The second second		
1	100					very large
1					7000	
54, Auckland Road  42—44, Lower Camden Street (Scarlet Fever)  57 and 58, Erasmus Road  59 and 60, Erasmus Road  77.0  14th  16 Court, Great Barr St. (Diarrhœa)  52 and 53, Larches St. (Scarlet Fever)  52 and 53, Larches St. (Scarlet Fever)  53, Camp Hill (Scarlet Fever)  52 and 53, Larches St. (Scarlet Fever)  52 and 53, Larches St. (Scarlet Fever)  53, Camp Hill (Scarlet Fever)  52 and 53, Larches St. (Scarlet Fever)  53, Camp Hill (Scarlet Fever)  54, Auckland Road  55, Court, Great Barr St. (Diarrhœa)  56, and 57, Larches St. (Scarlet Fever)  51, and			***	1020	***	very large
		54 Analdand Dood		78:0		
1	0 0					
14th   16 Court, Great Barr St. (Diarrhoea)   289·0         16 Court, Floodgate Street (Diarrhoea)   228·0       17	2	TE JEO D D J		400 G (100)		
14th	0 0					
	" 14th			The state of the s		
Alma Place, Turner St. (Scarlet Fever)   179.0   179	0 0			The state of the s		
	0 0		7.07			
	11 11					
	11 11		1000			
21st   21—23, Bordesley Park Rd. (Typhoid) (1st Pump)   131·0     178·0   178·0   122·0   12	0 0	29-31, Braithwaite Road				
(1st Pump)	11 21st	21-23, Bordesley Park Rd. (Typhoid)			***	
		(1st Pump)		131.0	20.0	
(2nd Pump)	0 0	21-23, Bordesley Park Rd. (Typhoid)			***	"
1		(2nd Pump)		178.0		232
1	11 11	Lady offer Loridco, Greenway Ot. (Tenhold)				
		66 and 67, White Road				
Brompton Place, Larches St. (Typhoid)	" 22nd	26-24, Darwin Street (Scarlet Fever)		- 1000	1000	
Alma Place, Turner Street (Soft Water)   5.0   80		Brompton Place, Larches St. (Typhoid)			677	
	n 26th	Alma Place, Turner Street (Soft Water)			100	
Astwood Place, Turner Street	0 11	Salford Place, Turner Street		100000000000000000000000000000000000000	1000	
		Astwood Place, Turner Street			1000	
		25 Court, Moseley Street (Diarrhœa)		A STATE OF THE STA		
1		167—172, Alcester Street		179/75/2011 1 X X X X X X X X X X X X X X X X X		
30th		5 Court, Bordesley Park Road				
110.0		14 and 15, Dymoke Street (Typhoid)				
		21 and 22, Dymoke St. (Scarlet Fever)		HET LEVIS TO THE REAL PROPERTY OF THE PERTY		
" " Gladstone Terrace, South Road 16 Court, Allison Street 50.0  Sept. 4th Thomason's Buildings. and No. 49, Heath Street (Typhoid) 54.0  Rotton Park Terrace, and Helena Terrace, Osler Street 58.0  Terrace, Osler Street (Diarrhea) 1 Court, Manchester St. (Scarlet Fever)	0				19.75	
Sept. 4th Thomason's Buildings. and No. 49, Heath Street (Typhoid)  Rotton Park Terrace, and Helena Terrace, Osler Street  97 and 98, Irving Street (Diarrhea) 1 Court, Manchester St. (Scarlet Fever)		Gladata T			100	
Sept. 4th  Thomason's Buildings. and No. 49, Heath Street (Typhoid)  Rotton Park Terrace, and Helena Terrace, Osler Street  97 and 98, Irving Street (Diarrhea) 1 Court, Manchester St. (Scarlet Fever)		16 Court All: Court Road				
Heath Street (Typhoid) 54.0  Rotton Park Terrace, and Helena Terrace, Osler Street 58.0  7 and 98, Irving Street (Diarrhea) 106.0  1 Court, Manchester St. (Scarlet Fever)	and the same of th	Thorneson's P. 111		50.0		
" " Rotton Park Terrace, and Helena Terrace, Osler Street " " 97 and 98, Irving Street (Diarrhea) 1 Court, Manchester St. (Scarlet Fever)	Sept. 4th	Hooth Stand No. 49,				. c. y mige
Terrace, Osler Street		Potton Book Typhoid)		54.0		
" 97 and 98, Irving Street (Diarrhea) 106.0 very large	" "	Torrace, and Helena				
" " Court, Manchester St. (Scarlet Fever) 106.0		97 and 98 Twin Circuit		58.0	***	Very large
" Court, Manchester St. (Scarlet Fever)   247.0		1 Court Manchest (Diarrhea)			1000	1
	ne ne	Court, Manchester St. (Scarlet Fever)		247.0		
					1	

i		Nitrogen as	Total	Previous Sewage			Hardness.		
	Ammonia	Nitrates and Nitrites.	combined Nitrogen.	or Animal Contam- ination (Estimated)	Chlorine.	Temporary.	Permanent.	Total.	REMARKS.
١							110		
ı	.012	1.87	1.884	18520					Slightly turbid
ı	·005	1·43 5·06		14020 50330		***		***	Clear
	.005	2.53		25020					Clear
١	.011	8.25		82270					
1	.013	6.71	6.720	66880	11.9	***			
1	.007	6.05	6.056	60240			***		Clear
ı	.004	6.80		67910		***	***		Clear
ı	·026	8·80 1·76		87890 16340			***	****	Clear Clear
ı	-210			30310					Clear
١	.006	2.86		28330					Clear
1	.007	1.43		14040					Clear
	.012	6.05	6.460	60280	11.7				Clear
	.035	2.57	2.779	27470	7.4				Clear
	.005	2.97	2.977	29459	9.9				Clear
	.009		2.977	29450					Clear
	.050			17690	5.8				Clear
	.050			44090					Clear
	.035	2.20		21970					Clear
	.006	3.45		38230					Clear
	·005			70120 60210					Clear Clear
١	.003			8500					Clear
	.004	1.54	1.543	15110	10.0				Clear, yellowish
-	100	2.00	0.000	20500	10.5				CI
	100	100000000000000000000000000000000000000				***		***	Clear Clear
	·009	5.83		58050 5210	1.1	***			Clear
	.003			100000000000000000000000000000000000000					Clear
	.003								Clear
į	•250		.206						Clear
	.006							***	Clear
	.030			The second secon		***	***	***	Clear
	2·200 ·008						***		Clear Clear
	.005								Clear
	.010								Turbid
	.009	2.09	2.097	20650	7.0				Clear
	.005						***		Clear
	1.200								Clear
	·016					•••	***		1000
	010	1 02	1 020	12300	0.1				
	190	1.32	1.476	14440	9.9				
	.009	1.87	1.877	18450	8.1			***	
	.008								
	.500			A 100 M 100 M					
						64			

_						
Rec	ate of eipt of imple.	DESCRIPTION.	Temp. C.	Total solid Impurity.	Organie Carbon.	Organic Nitrogen.
						-
and the second	878.	WELL WATERS—(continued).		1010		
Sep.	. 9th	5 Court, New John Street West (Scarlet)		134.0		very large
11	11	5 Court, Vere Street (Typhoid)		185.0	***	11
11	10th	2 Court, Mount St., Deritend (Typhoid)	***	114.0		moderate
- 11	11	105 and 106, Bristol Street		142.0	***	very large
11	11	4 Court, Warwick Street (Typhoid)	***	188.0	***	"
111	11	10 and 11, Little King Street, and 32 Court, New John St. West (Searlet)		115.0		
1		11 Court, and 18, Well St. (Scarlet Fever)		103.0	***	"
"	"	46 Court, Bell Barn Road	***	159.0	***	
11	13th	41 Court, Newtown Row (Diarrhea)		229.0	***	***
1 "	10111	438 & 439, New John St. West (Scarlet)		124.0		
1 "	"	8—12, Whitmore Street (Diphtheria)	•••	108.0		very large
1 "	"	Tichborne Place, and Castro Place,		1000		11-
1 "		Ford Street (Scarlet Fever)		104.0		1000
111	11	3 Court, Farm Street (Scarlet Fever)		91.0		large
1 "	"	11 Court, Farm Street (Scarlet Fever)		101.0	***	
1 11	17th	55 and 56, Chattaway Street		125.0		very large
11	11	205 and 206, Watery Lane (Scarlet Fever)		125.0		very large
11	11	168—174, Well Street		148.6		
n	11	7 and 8, Great Barr Street		288.0		very large
11	11	26 Court, Gt. Russell St. (Diarrhoea)		85.0		
it	11.	3 Court, Oliver Street (Diarrhœa)		150.0		very large
11	20th	42 and 43, Bristol Road		102.0		large
11	11	18 and 19, Kent Street (Typhoid)		120.0		
11	11	40 and 41 Courts, Spring Street		106.6		moderate
11	21st	2 Court, Vaughton Street	***	141.0		
- 11	11	6 Court, Highgate Street	***	169.0		large
- 11	"	7 Court, Highgate Street		209.0	***	very large
"	24th	24—29, Anderton Road (Small Pox)		154.0	***	***
"	"	46 and 47, Price Street (Scarlet Fever)		192.0		very large
"	"	25 Court, Hatchett Street (Diarrhoa)	***	164.6		large
"	11.	33—36, Lawden Road (Diarrhoea)	***	162.0		
"	11	26 & 27, Sampson Rd. North (Diarrhoea)		61.0		very large
- 11	26th	130—132, Bordesley Park Road	***	72.0		11
"		46 and 47, Ryland Street (Diarrhoea)	***	122.0	***	11
"	"	16 Court, Thorp Street (Diarrheea)	***	162.0	***	11
"	"	41—45, Johnson Street 46—49, Johnson Street		136.6	***	***
1 "	"	Magenta Place, Winson Green Road		120.0		very large
100	100	/Classical Thursday		00.0		
11	11	6 & 7 Courts, Vaughton St. (Diarrhea)		88.0		***
Oct.	1st	10 Court, Adelaide Street (Diarrhea)		137.0	***	very large
11	11	54, Lancaster Street		223.0		very large:
11	11	63-67, Great Barr Street (scarlet Fever)		270·0 334·0	***	"
11	11	34 Court, Cheapside (Scarlet Fever)		206.0	***	
11	11	254—258, Park Road (Diphtheria)		146.0	****	very large
31	"	36—43, Lower Dartmouth St. (Scarlet)		162.0	***	***
11	3rd	52 Court, Irving Street		132.0	****	
11	.01	Houses occupied by Shaw and Pardoe.		1020		very large
	-	Dudley Road		80.0	and the same	
-1	"	Houses occupied by Goodacre and		000		
		Brindley, Dudley Road	***	80.6		large
					7.000	iargo

Ī		Nitrogen	Total	Previous Sewage or Animal			Hardness,		
Δ	mmonia	Nitrates and Nitrites.	Combined Nitrogen.	Contam- ination. (Estimated)	0	Tempor- ary.	Perman- ent.	Total.	REMARKS.
	.005	6.60	6.604	65720	21.1		10000		
	.007	3.08	3.085	30520					Clear
	.002	2.64	2.641	26190					Clear
П	.004	2.75	10 10 10 10						Clear
	.005	3.19	2 2 2 2						Clear
1	.004	6.27	6.273	62410	14.0				Turbid
	.020	4.40	THE RESIDENCE OF						Clear
ı	.410	200000000000000000000000000000000000000							Clear
н	.800		10.22	116380	The state of the s				Clear
П	.005			61320					Clear
	.008	6.60	6.606	65740	10.7	***	***		Slightly turbid
			F 700	=====	1				600
1	.250					***			Clear
Н	.004	4.29	The second second				***	***	Clear
	.009	1 100 100 100		43750			***		Clear
1	.003		4 10 100 100 100					***	Clear
	.060			The state of the s					Clear
1	.005			A CONTRACTOR				***	Clear
Н	.003	1 10 10 10						***	Clear
П	.025								Clear
Ш	.005			43720		***		***	Clear
Ш	.002	1		16190			***	***	Clear
	2.000	1	100 100 100 100						Clear
	.004	1 2000	and the same of th	100000000000000000000000000000000000000					Clear
П	-300	1 2 27		16450 49200		***		***	Clear
н	.003	1 20 100				***	***	***	Clear
	1.650								Clear Clear
и	.015				1000000			***	Clear
Ш	-007			The second second	Control of the last of the las			***	Clear
н	-520						***	***	Clear
Ш	.005								Clear
п	.015		1 20 100 100 100 100 100 100 100 100 100			***		***	Clear
	.005						***		Clear
1	.008				29.0		***		Clear
	.450	1 2 7		1 177777777	10.0	***	***	***	Clear
-	.006				10.6	***			Clear
1	000	000	0 000	00020	1.00	***		100	0.00
1	1.200	3.85	4.838	48060	14.3				Clear
	.007				12.6				Clear
	.006	9 20 2 3			29.5				Clear
1	.009		The same of the sa		47.5				Clear
	1.030	1 100		101660	100000000000000000000000000000000000000				Clear
	.008				25.0				Clear
	-735				16.2				Clear
1	.018				19.2		#		Clear
	.008		1 2 10/2/2		16.6				Clear
	3.400				11.7	1			Very turbid, yellow, ocour of sewage
	.008	5.28	5.286	52540	10.0				Clear

Date of Receipt Sample	of	DESCRIPTION.	Temp. C.	Total solid Impurity.	Organic Carbon.	Organic Nitroger
1878		WELL WATERS-(continued).		108.0		
Oct.	3rd	6—8, Great Colmore Street		67.0	***	very larg
11	4th	10 Court, Devon Street		60.0	***	large
	11	36 and 37 Devon Street			***	very large
11	8th	121_125 Heneage St. (Scarlet Fever)	***	164.0	***	1
11	11	Bk. 56 & 57, Railway Terrace, Nechens		90.0	***	large
11	11	345-350 Nechells Park Road	***	69.6		11
11	11	54 and 55 Stratford Road (Typhold)		106.0	***	yery larg
11	11	12 and 13. Adelaide Street, Vauxnan	***	103.0	***	"
11	11	65—72, Highgate Lane (Typnoid)	***	102.0	222	"
	14th	5 and 6, Wordsworth Road	***	136.0	***	very large
11	11	14 and 15, Winson Green Road		120.0		
11	11	12 and 13, Winson Green Road		106.6		very larg
	11	170 Green Lane		80.0		. 11
	15th	2 Court, Oughton Place (Scarlet Fever)	***	274.0		large
11	11	32 and 33, Ladypool Lane		268.0		
	17th	Kelvnge Terrace, Kelvnge Street		76.0		rather
11	11	Hanley Terraces, Kelynge Street (Fever)	***	68.0		large
11	11	107 & 108, Ryland St. North (Diarrhosa)	***	140.6	111	very large
"	11	27. Navigation Street		294.0	***	11
11	11	39-41, Parker Street, and back 24,				
		Bellis Street (Typhoid)		109.0	***	
11	11	Back 52, Garrison Lane (Scarlet Fever)		191.0		exeessive
11 2	28th	108 & 109, New John St. West (Scarlet )		132.0		
11	11	22, Court Well Street (Typhoid)		109.0		***
11	11	311 and 312, Monument Road		87.6		
11	11	Noah's Buildings, Wheeley's Lane		164.0		
.11	31st	303, Pershore Road	***	69.0		very large
11	11	390, Bristol Road	***	133.0	***	11
Nov.	1st	36 Court, Newtown Row (Scarlet)		140.0		large
11	11	103, Steelhouse Lane (Typhoid)		192.0		very large
11	0	93-95, Floodgate Street		271.6		
11	11	1 Court, Meriden St., top (Scarlet Fever)		90.0		very large
11	U.	3 Court, Meriden St. (Scarlet Fever)	***	25.0		
11	11	1 Court, Meriden Street, bottom (Scarlet)		112.0	***	
11	6th	12 and 13, Rodway St. (Scarlet Fever)		68.0	***	very large
11	11	16 Court, Smith Street (Scarlet Fever)	+++	232.0		
11	11	31—34, Ormond Street (Scarlet Fever)	***	208.6	***	very large
-11:	11	21 and 22, Cathcart Street (Typhoid)		180.0	***	
-11	11	23 and 24, Cathcart St. (Scarlet Fever)		134.0	***	very larg
11	11	25 and 26, Cathcart Street	***	124.0		11
11	13th	90 and 92, St. Luke's Road	***	147.4		very larg
11	11	12 Court, Bissell Street (Typhoid)	***	156.0	***	very marge
11	n	85, Summer Lane (Diphtheria)	***	164.0		***
11	11	47 and 48, Tillingham St. (Typhoid)	***	112.4	***	***
11	11	20, Highgate Lane	***	135.4		very larg
11	11	2 Court, Sun Street (Typhoid)		195.0		very larg
11	18th	8, Kent Street North (Small-pox)		78.4		
11	11	130 and 131, Cregoe Street		134.0		very larg
11	11	16-21, Cregoe Street, and 7 Court,			10.00	1000
11	11	Latimer St. South (Scarlet Fever)		113.0		11
11	-11	2 Court, Burbury St. (Scarlet Fever)		261.4		

9		Nitrogen	Total	Previous Sewage			Hardness.		
100	mmonia	Nitrates and Nitrites.		or Anima	Chlorine.	Tempor-	Perman- ent.	Total.	REMARKS.
1	-006	6.60	6.605		13.5				Clear
ĕ	.005	3.30		32720	7.8			***	Clear
g	.006	2.86	The second second	28330	6.5		***		Clear
	.018	7.48	The second second	74630	20.0				Clear
	.006	2.86	0.00	28330	12.0				Clear
	.006	2.75	2.755	27230	3.5				Clear
	.003	3.30		32700	4.9				Clear
	.004	5.39	5.393		7.0				Clear
В	.003	.99		9600	7.5				Slightly turbid
	.006	4.51	4.515	44830	14.5				Clear
H	.325	7.71	6.977	69450	15.0				Clear
-	.010	5.28	5.288	52560	17.8				Clear
1	.007	2.09	2.096	20640	7.1				Clear
ı	.004	6.82	6.823	67910	17.5				Clear
1	.150	6.05	6.173	61410	4.9				Clear, yellow
ı	.004	2.75	2.753	27210	4.9		***	***	Clear
ı	.005	2.53		25020	5.4				Clear
1	.003	6.60	6.602	65700	22.5				Clear
ı	.015	16.72	16.832	168000	40.8				Clear
ı	1.050	1.0-	0.000	20720	132				CI
ı	1.650	4.95	6.308	62760					Clear
ı	.009	4.07	4.077	40450			***	***	Clear
	·020 1·150	4.40	4.416	43840	20.0	***			Clear
ı	1.900	3·52 4·18	4·466 5·745	44340 57130	9.7	***	***	***	Clear Clear
ı	024	1.43	1.450	14180	47.1	***	****	***	Clear
ı	.010	.66	668	6360	4.5	*****	****	***	Clear
П	.007	3.19	3.196	31640	9.1				Clear
ı	.007	7.59	7.596	75640	19.3				Clear
	.006	6.93	6.935	69020					Clear
	.680	4.62	5.180	51480					Clear
	.008	2.75	2.756	27240					Clear
	.052	.11	.153	1210	1.2				Turbid
	.820	3.30	3.976	39440	13.0				Clear
	-006	3.41	3.415	33830	THE PARTY OF THE P	***			Clear
	2.100	13.31	THE RESERVE TO SERVE	150000					Clear
	.012	1.10	1.110	10880					Clear
	950	9.90		106490	DESCRIPTION OF THE PARTY OF THE		***	***	Clear
	.007	5.50	5.506	54740	6.9				CI.
	·005	4.62	4.624	45920	6.7		***		Clear
	1.450	3·30 4·62	3·306 5·814	32740 57820	The Property lies			***	Clear Clear
	052	7.70	7.743	77110					Clear
	.058	3.52	3.568		6.1			***	Clear
	.005	4.62	4.624	45920	8.2			***	Clear
	.019	4.29	4.306	42740					Clear
	.014	3.02	3.029	29970	8.0		4		Clear
	.005	8.25	8.254	82220					Clear
							-		Transaction of the second
	.005	5.17	5.174	51420	13.8				Clear
	1.300	16.28	17.350	173180	38.0				Clear
		-				-			
1	-								-

Date of Receipt of Sample.	DESCRIPTION.	Temp.	Total solid Impurity.	Organic Carbon.	Organi Nitroge
1878. Nov. 18th	well waters—(continued). 4 and 5, Mount Street (Small-pox)	***	157.4		
11 11	8 and 9, Little King Street, and 250, New John St. West (Scarlet Fever)		87·0 115·4		very large
" 20th	70-72 Dollman Street		99.0		large
11 11	48—53, Leopold St. (Scarlet Fever) 4 and 5 Courts, Inkerman St. (Scarlet Fever)		150.0		
" "	29-31, Emily Street (Scarlet Fever)		232.4		very large
11 11	306 Pershore Road ···	***	72·4 66·0		"
" 22nd	307, Pershore Road (Typhoid)		360.4		"
" 22nd	1—7, Lilly Green 139 and 140, Sampson Road (Scarlet )		101.0		**
11 11	1 Court Norfolk Street		43.0		
11 11	3 Court, Little Edward Street (Scarlet)		245·4 155·4		***
" "	Windsor Terrace, Ravenhurst Street 32 and 33, Anderton Road		90.0		very lar,
" 29th	2 and 3, Stafford Street (Scarlet Fever)		112.4		11
11 11	6 and 7. Highgate Place, Moseley Road	***	159·0 180·0		"
" 30th	Shipway Terrace, Highgate St. (Scarlet) 17, Montpellier Street		133.8		"
11 11	5 Court, Emily Street (Scarlet Fever)		181.4		large
" "	3 & 4 Courts, Emily St. (Scarlet Fever)	***	227.0		very lar
Dec. 5th	21 & 22 Courts, Brearley St. West (Scarlet) 18 Court, Well Street		134·4 95·0	***	***
" "	104 & 105, Rupert St. (Scarlet Fever)		156.0		very large
11 11	Back 7, Bull Ring		151.4		
0 0	2—10, Cregoe Street (Scarlet Fever)	***	135·± 141·0		very lars
" " " 9th	132—136, Cregoe Street 18 and 19, Bloomsbury Street	***	82.4		"
0 0	15, Speedwell Road 2, Poplar Avenue, Sandon Road		101.0		"
11 11	2, Poplar Avenue, Sandon Road		50.0		11
11 11	12 Court, Lee Bank Road (Scarlet Fever) 10—12, Spring Street		105·4 263·4		"
11 11	44 and 45, Inkerman Street		197.0		very land
11 12th	Prospect Place, Holborn Hill		144.4		
" 20th	9—13, Wordsworth Road 49 and 50, Wordsworth Road		98.4		***
" 21st	69 and 70, Cheapside		108·0 356·0		very land
11 11	12, Court, Milk Street (Scarlet Fever)		235.4		11
11 11	44—46, New Canal Street Back 19, Park Lane		197.4		"
1 30th	448 & 449, New John St. West (Measles)		292·0 148·4		* ***
11 11	5-7, Dymoke Street (Scarlet Fever)		151.0		very land
11 11	73-78, Newtown Row (Scarlet Fever)		122.0		· · ·
1 "	93—95, Emily Street (Scarlet Fever) 46—49, Johnson Street		95.4	***	
11 11	41—45, Johnson Street		161·4 156·0	***	

ı		Nitrogen as	Total	Previous Sewage			Hardness.		
m	monia	Nitrates and Nitrites.	Combined Nitrogen.	or Animal Contam- ination (Estimated)	Cinorine.	Temporary.	Perman- ent.	Total.	REMARKS.
	-019	6.01	6.066	60340	14.0				Clear
В	.005	4.62	4.624	45920	9.7				Clear
в	.085	4.40			7.0	***			Clear
В	.004	1.76		7 5 7 7	7.6	***	***		Clear
п	620	3.96		44380	18.1			***	Clear Clear
ш	·005	6.60	6.604	65720 4120	16·7 7·1	***		***	Clear
н	.004	.55			R. CO. 11		***	***	Clear
в	015	10.01	10.02	99900					Slightly turbid
п	.011	0.09	2.099	20670	000000				Clear
в	.006	.77	.775	7430					Clear
в	.190	6.82	6.976	69440	20.2				Clear
в	.480	7.15		75130		***			
в	.005	1.32		12920			***	***	Clear
	.013			31680		***			Clear
	.009	3·63 2·09		36050 20600		***		***	Clear Clear
ш	·003	4.29	The second second			***	***	***	Clear
н	.003	3.74		The second second	A COUNTY OF THE PARTY OF THE PA		***	***	Cicii
н	.002	5.17		51390					
в	-650	4.51	5.045						Clear
в	.028	3.30	3.323	32910	13.9				Clear
и	.007	1.87		The state of the s	A CONTRACTOR OF THE PARTY OF TH				Clear
п	.125	4.40						***	Clear
ш	.010		The state of the s				***		Clear
	.018	7.70				***	***	***	Clear
	014	1.54 1.43		15190 14120			***	***	Clear Clear
	·016		10000000	18450		***	***	****	Clear
	.010			The second second	A STATE OF THE STA	***			Clear
	1.200			and the second					Clear
B	.025				A STATE OF THE PARTY OF THE PAR				Clear
3	3.400	2.42	5.218	51860	25.3				Clear, some suspended particles
1 2	2.000		The second second second					***	Turbid
	.008								Turbid
	.005		The second second	186720					Clear
	.010					***			Clear Clear
	·650			THE RESERVE AND ADDRESS OF	A CONTRACTOR OF THE PARTY OF TH			***	Clear
	.020			The second	100000000000000000000000000000000000000			***	Clear
	.008		0.000						Clear
	.150								Clear
	.017				1 - 2 - 2				Clear
	.090				The second second				Clear
	.075	7.92	7.982	79500	7.0		***		Clear
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		-		- 10			1		
-	-		-		-			-	

TABLE XVI.

RETURN FOR THE PERIOD IST JULY, 1877, TO 30TH JUNE, 1878, RESPECTING THE VACCINATION OF CHILDREN WHOSE BIRTHS WERE REGISTERED IN THE BOROUGH DURING THE SAID PERIOD.

					_		
Number of these Births remaining neither duly entered in the	Register (cols 3, 4, 5, and 6 of	this Return) nor temporarily accounted for in the "Report Book" (cols. 8, 9, and 10 of this Return).	11	1	28	27	
the remained Register" on the Book) of	Removed to	ng ng ng	10	619	330	19	
Number of these Births duly entered in Columns 10, 11, and 13 of the "Vaccination unentered in the "Vaccination Register" on Register" (Birth List Sheets), viz.:	Democraf to	.E >>	G.	∞	16	65	
Number of th unentered in th account (as		Postponement by Medical Certificate.	90	93	29	46	
necination	Col. 13.	"Dead, Unvacci- nated."	10	940	517	20	
ths duly en s of the "V;	Register" (Birth List Sheets), viz.:	". Had Smallpox."	0	ı	- 1	1	
Number of these Births duly entered in olumns 10, 11, and 13 of the "Vaccination Register" (Birth List Sheets), viz.:		Col.	Col.	"Insus- ceptible of Vaccination"	4	6	1
Number Columns 1 Regist	Col. 10.	" Success- fully Vac- cinated."	00	8,033	4,695	388	
Number of	returned in the	"Birth List Sheets" as Registered.	0.	9,763	5,653	505	
	Ustava	LABIOTA.	1	Birmingham	Aston (within the Borough)	Edgbaston ( " " )	

Table of the Number of Deaths occurring in each Street in the Borough of Birmingham during the Year 1878.

	-							
STREETS.	Zymotic	Other	STREETS.	Zymotie	Other	STREETS.	Zymotic	Other
	3		Path Paus	0	-			
A			Bath Row Bath Street	2 2	5		1	1
^			Beach Street	1	7	C		
		0	Beak Street	2	3			
Alabam Otmont	" 2	5	Beaufort Road		7	Calthorpe Road	1	
A boundards Okament	10		Bedford Road	1	i	Cambridge Crescount	20000	1
A. B. Row			Belgrave Road	2	5	Cambridge Street	- 44	2
	6		Bell Barn Road Bellis Street	8	41 6	Camden Drive		
Adderley Street Adelaide Street, Deriter	0.01 E	6	Bell Street		2	Camden Grove	10 100	10
Adelaide St., Duddesto	1 2		Belmont Passage	100	4	Camp Hill.	2	40
Albert Street, Deritend		5	Belmont Row	3	7	Camp Street	- 0	2
Albert Street, All Saint Albert Street, St. Martin			Bennett's Hill	8	28	Canal Street		5
Albian Diment		2	Berkeley Street	1	1	Cape Line		1
Alcester Street	8	20	Berner's Street	1	2	Cape Street		
Alexandra Road		5	Beswick Street Betholom Row		1 1	Cardigan Street	5	11
Alfred Street		0	Birchall Street	1	5	Carlisle Street	1	5
Allcock Street	3	8	Bird Lane		1	Carpenter Road		2
Allesley Street	. 6	0.0	Bishopgate Street	4	20	Carr's Lane	130	
All Cainte' Dood	0	26	Bishop St., St. Martin's Bishop Street, St. Mary's	3	14	Cartland Road Carver Street	5	3
All Cal to! Otmont		2	Bishop Street South	3	7	Castle Street, St. Martin		1
Alma Crescent		3	Bissell Street	11	13	Castle Street, Deritend		2
Aladam Diment	3	5	Blake Lane Blews Street		6	Cathcart Street	1	7
Ampton Road	1	9	Blews Street West	2	4	Cata Street North	7	9
Andarton Dood		5	Bloomsbury	1	10	Cattell Road	100	18
Anderton Street	2	5	Bloomsbury Street	2	15	Cattell Grove	1	3
Amenalina Channet	2	111	Blucher Street Bolton Road	2 4	17	Cecil Street	1000	111
Ann Stuant		1	Bolton Street	10	i	Chad Road		1
Argyle Street	. 4	5	Bond Street	-	5	Chapel House Street		î
Amount Ciment		1	Bordesley Green Bordesley Green Road	5	20	Chandos Road Chapel Street		1
Anthon Dond			Bordesley Bordesley Park Road	6	27	Chanman Dood		6 2
Arthur Street	8	13	Bordesley Street	16	18	Charles Arthur Street	- 0	11
	11	10	Bow Street	3 2	7	Charles Henry Street	5	37
Anton Dood	9	38	Bowyer Street Bracebridge Street	7	7	Charlotte Road Charlotte Street		3
Aston Street	4	14	Bradford Street	6	36	Chattaway Street	- 0	2
Asylum Road		3	Braithwaite Road		3 9	Cheapside	9.00	41
Atlan Ctunet	1	1 1	Branston Street Brasshouse Passage	4	2	Cheatham Street	46	2
Analdand Dood	1	2	Brass Street	2	6	Cherry Street	1 -	4 2
Augusta Street	2	5	Bread Lane	1	3	Cherry Wood Lane		î
Amotin Ctmast	1		Bread Street, St. Paul's Bread Street, St. Martin's		1	Chester St., Ladywood Chester St., Duddeston	8	16
Avenue Deed		2	Brearley Street	7	24	Cheston Road		4
	1		Brearley Street West	7	20	Christ Church Passage		2
	1	18	Brewery St., Deritend Brewery St., St. Mary's	2	6	Church Road, All Saints' Church Road, Duddeston	1	4
В	1		Brewery St., Duddeston	î	14	Church Road, Edgbaston		3
	-		Brickiln Street	1	3	Church Street	1	5
Bacchus Road	1	6	Bridge Street Duddeston		1	Clarendon Road		3
Daniel Olimant	. 5	10	Bridge Street, Duddeston BridgeStreet, St. Thomas	1		Claverdon Street	100	16
Bailey Street	. 1	2	Bridge Street West	3	45	Claybrook Street	- 24	1
Baker Street	. 2	8	Bristol Road	1 3	13	Cleve Terror	1	
Releatt Heath Dond		5	Bristol Street	13	16	Cleve Terrace		
Dalas II Church	1	3	Bromsgrove Street	0	21	Cliveland Street		5
Banbury Street		3	Brookfield Road		,	Coach Yard	1	1
Dawford Street South	10	27	Brook Road Brook Street		1 2	Coleman Street Coleshill Street	100	19
Barleon Street	111	2	Broom Street	1		College Street		14
Barlow's Road		1	Brueton's Street		10	Colmore Row		1
Dannagh Chuach	. 4	19	Buckingham Street	5	16	Commercial Street Communication Row		
Barn Stuant	. 6	8	Buck Street Bullock Road			Congreve Street		5
Barr Street West	. 2	6	Bullock Street	1	1	Constitution Hill	- 0	8
Danthalaman Church		2	Bull Ring		2 3	Cooksey Road	3	18
Bankawilla Dansana	4	10	Bull Street Burbury Street	4	9	Cooksey Road	0	8
Baskerville Place		1	Butler Street	1	3	Coplow Street	0	5
Rath Danagas	-1	1	Butler Street South		1	Cotton Row	1	1

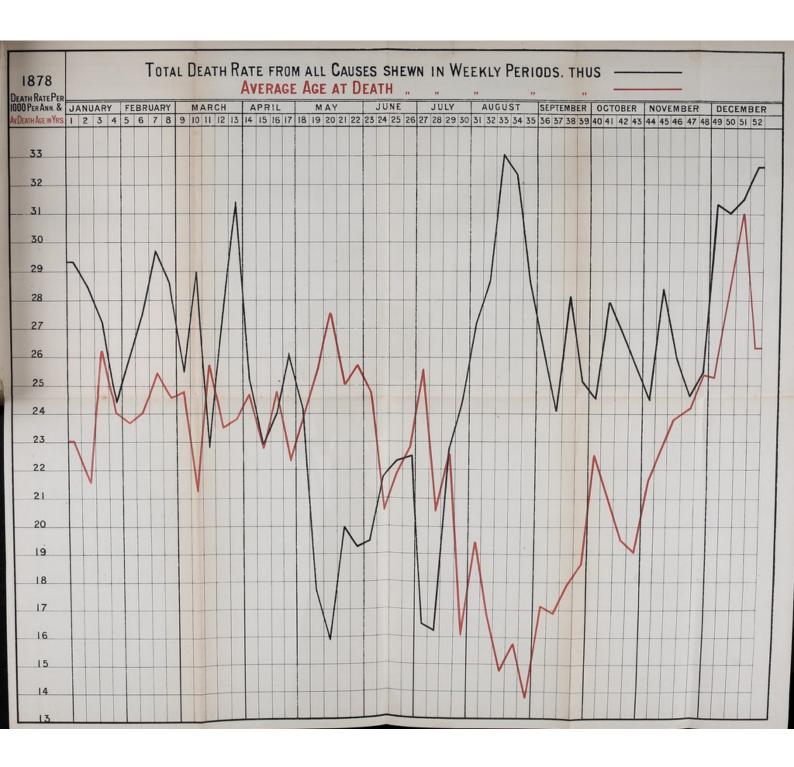
						_	75 MD	00		100	01 30
STREETS.		Zymoti	Other	STREETS.		1	Lymothe	Other	STREETS.	Zymotic	Other
Cotton Street	- 0.0	1	3	P. P. I				2	Greaves' Court		
Courthouse Yard	**		3	Farm Street		::	17	50	Greenfield Crescent		
Coventry Road Coventry Street		100	36	Farquhar Road					Green Lane Green's Court	1 0	18
Cox Street	**	8	13	Fawdry Street			3	3	Green Street, Deritend	-	0
Coxwell Road	- 22		6	Fisher Street			2	10	Green Street, All Saints'	3	5
Crabtree Road Cranemore Street	4.4	2	5	Fleet Street			6	24	Green's Village Greenway Street	10	9
Cregoe Street		5	15	Floodgate Street			-	4	Grindstone Road	10	3"
Crescent	- 1		2	Fordrough Lane		++			Grosvenor Row		1
Crescent Wharf Cromwell Street		10	37	Fordrough Street Ford Street			8 5	7	Grosvenor Street	8	24]
Crooked Lane	-			Forge Street				î	Grove Street	0	24.7
Cross Street Cuekoo Road		5	3	Foundry Road			1 1	2	Guest Street	1	1
Cumberland Street		1	5	Fowler Street			4	11	Guildford Street Gullet, St. Mary	6	11
Curzon Street		4	2	Francis Road				4	Gullet, Deritend		
Cuthbert Road	111			Francis Street Frankfort Street			2 3	26	Gullet, St. Thomas'		1
				Franklin Street			0	1			
D				Frank Street				4			
U				Frederick Road Frederick Street				5	Н		
Dale Pad				Freeman Road				3		-	
Dale End Dart Street	**	4	8	Freeman Street Freeth Street			8	2	W. J. D. J		
Dartmouth Street	**	4	14	Friston Street				10 20	Hagley Road	1	24 5
Darwin Street Dawson Street		13	26					70	Hampton Street	5	16
Dean Street		3	4			1		- 1	Handsworth New Road		1
Derby Street			3				-		Hanley Street	2	8
Devonshire Street			15	G	9		1		Harborne Road		7
Digbeth		7	22				1		Harding St , St. George's Harding Street, AllSaints'	3	7 7 4
Digby Street Doe Street	**	1	3						Harford Street	1	3
Dolobran Road	11	2	2	Galton Street Garbett Street		1 6		2	Harrison's Road		
Dolman Street Drury Lane			7	Garrison Lane		1 74		32	Hatchett Street	6	18
Duchess Road				Garrison Street	-			11	Heath Mill Lane	1	13
Duddeston Mill Road			15	Gas Street Geach Street	-	1 2		1 5		18 :	25
Duddeston Row Dudley Road			13	Gee Street		1		1	Heaton Street	4	1 15
Dudley Street		2	0.	Gem Street George Road		1		3	Helena Street	1	1
Dugdale Street Duke Street		5	0	George Street (All Sain	its"	3			Henday Street		5
Dymoke Street			12	George Street, Neche George Street West	lls	8			Henn Street	9	
				Gibb Street	**	0	-	7	Henn's Walk	-	_
				Gillott Road					Henry Street		7
E				Gladstone Road Glebe Passage				1 1	Herbert Road		10
				Glebe Street		2		6 1	Hermitage Road		1
Eastern Road				Gloucester Street Glover's Road	**		1	0. 13	dick Square	1	
Easy Row				Glover's Street		18		3	lick Street	3	6
Edgbaston Road	1.			Godwin Street Golden Hillock Road		3	100	1   1	lighgate Lane	9	4
Edgbaston Street Edmund Street			0 1	Jooch Street	**	4 9	2	9 1	lighgate Place		1
Edward Road	**		1 (	Goode Street		1			ligh Park Street 1		
Edward Street Elkington Street.			2 11	Goodman Street		1	1	1 1	ligh Street		5
Ellen Street		1 1		FODSall Street	**	3	1	2   1	ligh Street, Deritend 1	0 1	9
Ellis Street			3 6	Josta Green	***	1	1 5	2   F	lingeston Street	6 1 2	
Elvetham Road Emily Street	44	1	2 (	lough Street	**	9		0   1	lob Moor Lane		1
Emmeline Street		2 1	0 6	Frace Road				Î	lockley Hill lockley Pool Road	1	6
Enfield Road Engine Street			1	Fraham Street	**	1	11	9 1	lockley Street	2 3	9
Erasmus Road	**		2 6	range Road		1	1 9	1 2	tolborn Hill	6 1	5
Essex Street			Ğ	rantham Road				E	tolliday Street	1 1	
Essington Street		6	7 6	ranville Street	11	3	10	2   30	Ioilier Street		
Ethel Street			1100	reat Barr Street reat Brook Street		8	14	E	followay Head ]	1 1	
Eyre Street				Test Charles Street		5	19	1 13	olt Street	8 11	1
		2 (	. 11 6	reat Colmore Street		5	21		Ooper Street	1 3	1
			6	reat Francis Street		7	31	H	ope Street(All Saints) 18	30	
F			10	reat Hampton Street		6	19	A3	Orse Fair	1 4	
		1	11 10	reat King Street reat Lister Street		7	25		oward Place		
Factory Road			11.00	treat Oneon Street		14	32	B	loward Street	9	
Falconer Road				reat Russell Street	::	16	33		lowe Street 5		
			-	reat Tindal Street			0		umpage Road		
									umbele road 1	1	

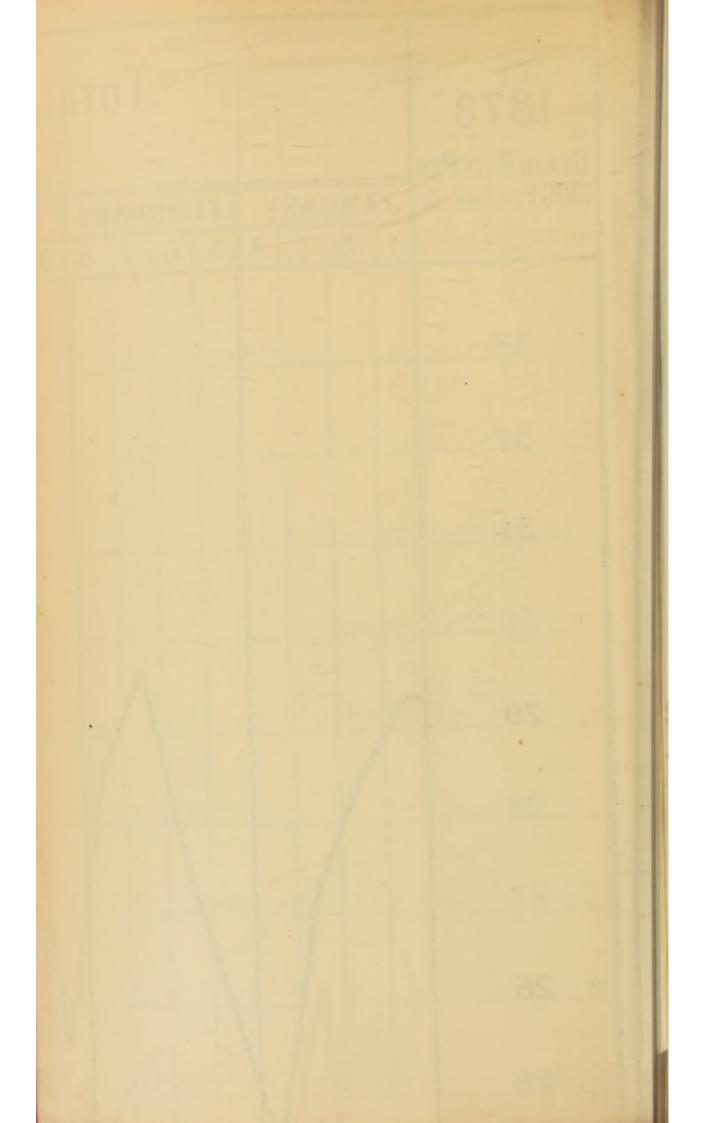
STREETS.	100	Zymotic	Disease	STREETS.	Diseases	Diseases	STREETS.	Zymo	Other
				Lees Street	2	1	Montgomery Street		-
FF. A. FILL A.		1	1		1	3	Montpellier Street	1	
Washing Character	**	3	11	Legge Street	3 2	11	Monument Road	9	2
FFA- FAA	::	1	7		9	13 10	Moore's Row Moorsom Street	1	
Walter Disease		- 1	ill		9	15	Moon Chunch	2	
			23	Lichfield Street	1	6	Moreton Street	î	
					2	2	Morville Street	6	1
					1	2	Moseley Road	7	2
				Lister Street	2	16	Moseley Street	10	2
				ACCURACY AND ACCUR	4	3	Mountfield Road	6	
				The state of the s	î	6	Mount Dissount		
				Little Bow Street		1	Meriden Street	6	1
Icknield Port Road		26	28	Little Broom Street			Metchley Lane	2	
Francisco Profession Contraction Contracti		8	8 21	Little Cannon Street		3	Metchley Park Road		
Town Charles		5	11		2	1	Miles Street	4	1
In alaba Dimak		1	16	Little Francis Street	-	1	Milk Street	14	1
inkerman Street		5	11	Little Green Lane ;	8	16	Mill Lane	14	
Irving Street		17	34	Little Hill Street		-	Mill Street, Duddeston	100	
Islington Row		1	5 2	W 1441 COL 3 11 COL 1	1	12	Mill Street, Ladywood	2	
Ivy Lane	"	*	-	Little Shadwell Street			Milton Street	5	
				Liverpoo! Street		1	Milward Street Minories		
				Livery Street	7	11	Moat Lane		
J				Lloyd Street			Moat Row		
	- 1				10	33	Moilliett Street	125	
Jamaica Row			3	Lombard Street London 'Prentice Street	2	13 5	Moland Street	7	1
Jamaica Row James Street	::		1		5	17	Mole Street Mona Road	1	
Jenkin's Street .			^		4	2	Monmouth Street		
Jennen's Row .				Long Street	2	13	Montague Road		1
Johnson Street .			2	220200 10200000	2	9	Montague Street	6	1
John Street		2 2	4	Louisa Street		70	Mount Street, St. Paul's		
John Street		2	11	Years Years	4	19	Mount Street, Deritend	4	H
					3	13	Mount St., Winson Green Mount Street, Nechells	1 2	1
					4	5	Musgrave Road	î	ľ
K				Lower Darwin Street		1	Muntz Street	3	
					8	19			ı
Varian Street		0	0		1	-			
Keeley Street Kelynge Street		5	9		2 4	7 7			
Kelynge Street Kendall Road	::				3	i	N		1
Kent Street		6	3		4	5			
Kent Street North		1	9		2	1	Navigation Street	5	
Kenyon Street		3	10	Lower Lawrence Street			Nechells Park Road	6	1
Key Hill King Alfred's Place		2	10	Lower Loveday Street	2	2 4	Nechells Place	1	
King Edward's Place	**		2	Lower Russell Street	-	0	Needham Street		ŧ.
King Edward's Road		2	12	Lowe Street		3	Nelson Street	5	I.
Kingston Road		1	4	Lower Temple Street		4	Nelson Street South	166	1
Kingston Row				Lower Tower Street 1	13	26	Nelson Street West .	4	13
King Street		1	2	Lower Trinity Street	-	6	New Bartholomew Street		1
Kyott's Lake Road		2	13	Lama Street	2	2	New Bond Street		I
Kyrwick's Lane		-	13	Lowe Street	1		New Bridge Street New Canal Street	7	1
		1 3		The second secon	1	4	New Church Street		
				Ludgate Hill Passage			Newdegate Street		-
L				Lupin Street	7	9	New Edmund Street		В
		4 3					New England		1
Ladypool Lane		1	1				New Hall Hill New Hall Street		-
Ladywell Passage		100	*	M			Many Indiahana	-	1
Ladywell Walk		1	1				New John Street	13	1
			6				New John Street West	22	
Ladywood Grove			26	Macdonald St., St. Geo	2	6	New Market Street	1	1
Ladywood Grove Ladywood Road		S	16	Males Obsessed	1	7	New Meeting Street		1
Ladywood Grove Ladywood Road Lancaster Street	**			AT A PERSON TO A	5	8	New Spring Street New Street	1 77	1
Ladywood Grove Ladywood Road Lancaster Street Lander Street				Malvern Hill Road	5	3	New Summer Street	W 400	
Ladywood Grove Ladywood Road Lancaster Street Lander Street Langley Road			4				Namkon Church	-9	1
Ladywood Grove Ladywood Road Lancaster Street Lander Street Langley Road Lansdown Street		1 5	9	Manor Road	1	1	THE WOOL STREET	1 10	
Ladywood Grove Ladywood Road Lancaster Street Lander Street Langley Road Lansdown Street Larches Street Latimer Street		5 1	9 2	Manor Road Market Street	1	1	Newtown Row	8	
Ladywood Grove Ladywood Road Lancaster Street Lander Street Langley Road Lansdown Street Larches Street Latimer Street Latimer Street South		5	9 2 22	Manor Road Market Street Mark Lane	1	1 3	Newtown Row Nile Street		1
Ladywood Grove Ladywood Road Lancaster Street Lander Street Langley Road Lansdown Street Larches Street Latimer Street Latimer Street South Lawden Road		1 5 1 12	9 2 22 1	Manor Road	1	3 1	Newtown Row Nile Street Nineveh Road Neel Bood	1	
Ladywood Grove Ladywood Road Lancaster Street Lander Street Langley Road Lansdown Street Larches Street Latimer Street Latimer Street South Lawden Road Lawley Street Lawley Street		1 5 1 12	9 2 22 1 15	Manor Road Market Street Mark Lane Marroway Street Marshall Street	1	1 3	Newtown Row Nile Street Nineveh Road Noel Road.		
Ladywood Grove Ladywood Road Lancaster Street Lander Street Langley Road Lansdown Street Larches Street Latimer Street Latimer Street South Lawley Road Lawley Street Lawrence Street		1 5 1 12 4 7	9 2 22 1 15 23	Manor Road Market Street Mark Lane Marroway Street Marshall Street Marshall Street South		1 3 1 1	Newtown Row Nile Street Nineveh Road Noel Road Norfolk Street		-
Ladywood Grove Ladywood Road Lancaster Street Lander Street Langley Road Lansdown Street Larches Street Latimer Street Latimer Street South Lawden Road Lawley Street Lawrence Street Lease Lane	the there	1 5 1 12 4 7	9 2 22 1 15	Manor Road Market Street Mark Lane Marroway Street Marshall Street Marshall Street South Mary Ann Street	1	3 1	Newtown Row Nile Street Nineveh Road Noel Road Norfolk Road Norfolk Street	2	
Ladywood Grove Ladywood Road Lancaster Street Lander Street Langley Road Lansdown Street Larches Street Latimer Street Latimer Street South Lawden Road Lawley Street Lawrence Street Lawrence Street		1 5 1 12 4 7 1 4	9 2 22 1 15 23 1	Manor Road Market Street Mark Lane Marroway Street Marshall Street Marshall Street South		1 3 1 1	Newtown Row Nile Street Nineveh Road Noel Road Norfolk Road Norfolk Street Norman Street	2	
Ladywood Grove Ladywood Road Lancaster Street Lancer Street Langley Road Lansdown Street Latimer Street Latimer Street South Lawden Road Lawden Road Lawrence Street Lease Lane Ledsam Street		1 5 1 12 4 7 1 4 3	9 22 1 15 23 1 10	Manor Road Market Street Mark Lane Marroway Street Marshall Street South Mary Ann Street Mary Street		1 3 1 1 3	Newtown Row Nile Street Nineveh Road Noel Road Norfolk Road Norfolk Street Norman Street	2	-

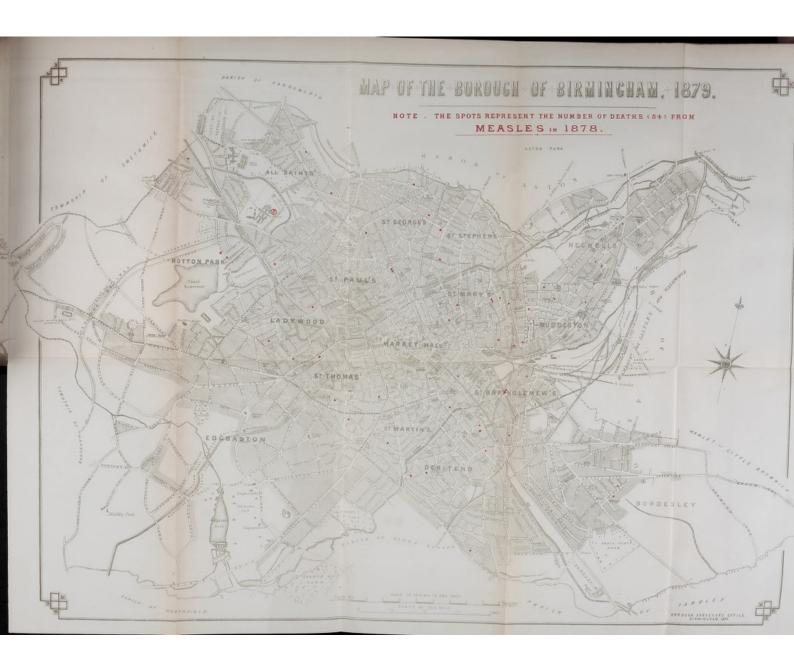
1   St. Mark's Street West   2   6   Summer St, St. Phillips   4   4   4	The same of the sa				0 %	20		tic	er 808
Northwood Street		the see	上京		oti	ner	STREETS.	mo	oth Sea
Northwood Street	STREETS.	nol	the	STREETS.	ym	Oth		80	Ä
Northwood Street	134 AVENUE	Zyr	Dis		ZO	-			1
Norting Street									
North Street     2   4	Northwood Street	8	8				St. Paul's Square	1	1
Norton Stever Street   Norse Seeds Street   Norse Stree	North Street	1 10	4				St Peter's Place		
Author   Column   C		_	8	R			St. Philip's Churchyard		1
College   Coll			2				St Vincent's Street		16
College   Coll				and the same of th		2	Scholefield Street	1 / 2	21
Against Terrace, Seconds   2   2   3   3   3   3   3   3   3   3				Radnor Street	1	4	Scotland Passage		1
Oakley Road				Railway Terrace, Nechells	1		Scott Street		1
Dakley Road	0			Rann Street	2	9	Severn Street		6
Qakier Road				Ratcliffe Place			Seymour Street	- 0	0
Oakler Road         1         4         Rawlins Street         2         4         Sheepcote Lane         6         10           Oid Inkleys         1         1         Res Street         1			0		1		Shadwell Street	200	9
According Street   1				Rawlins Street	2		Sheepcote Lane	-	
Did Meeting Street		2		Rea Street South	1		Sheepcote Street		
Coliver Road				Recent's Parade	100			0	
Cliver Street			2	Regent Park Road			THE R. L. L. LEWIS CO. L. L. LEWIS CO. L.	0.	
Oozells Street North   2	The state of the s	1.73		Regent Place					
Reservoir Rada				Regent Row				1_	1
Skinner Street   1   3   3   3   3   3   3   3   3   3	Oozells Street North			Reservoir Retreat					
Outlet Road   1   3   3   3   3   3   3   3   3   3		5		Reservoir Road	1				
Owen Street		1		Richard Street	0	9		74	8
Owen Street	Outlet Road		1	Richmond Hill Road	3.				
Paddington Street	45 A 3 MA	1		River Street	1				
Paddington Street		1		River Street, All Saints	1		The state of the s		-
Paddington Street	Gaygon officer 11						Smith St., St. George's	5	9
Paddington Street						6			
Paddington Street	P			Rope Walk				- 65	
Rayent Street				Rotton Park Road		2	October 19 and 1		
Paddington Street				Rowland Street	2	4			100
Pakeniam Road   12   7   Ruston Street   1   4   6   8   19   7   7   7   7   7   7   7   7   7	Paddington Street	1	7	Rupert Street	4			- 22	8
Palmer Street   12   7   7   7   7   7   7   7   7   7			3		10				
Paradise Street   2	Palmer Street	12		Ruston Street North	1 0			1	
Park Lane			0		1			1 7	4
Park Lane	The American Characters of	0	6	Ryland Street, Deritend					9
Park Road, All Saints   12   30   Apart Road, Edgbaston   2   4   10   10   10   10   10   10   10	The state of the s			Ryland St., Ladywood	1 2				
Park Street	Park Road, All Saints'	12	40	Ayland Street Form	1	1	Spooner Street	1	
Parliament Street   2   6   Paternoster Row     2   6   Peternoster Row     2   6   Peternoster Row     2   6   Peternoster Row     2   6   Peternoster Road     1   3   Penn Street, Duddeston   1   4   Penn Street, Duddeston   1   4   Pershore Road   Pershore Road     4   Pershore Road     4   Pershore Street     1   Phillip's St. St. Martin's Place     1   Sailtey Road     2   11   Stafford Street     2   10   Pinfold Street     1   1   Sampson Road     3   1   Steward Street     1   Stoke Street     3   Steward Street     3   Steward Street     3   Stoke Street     3   Stoke Street     3   Stoke Street     3   Stoke Street     3   Stone Yard (Deritend)   1   Stoney Lane     Stoney Lane     Stoney Lane     Stratford Place     Stratford Place     Stratford Road     4   1   Stratford Place     Stratford Place     Stratford Road     4   1   Stratford Place	THE POST POST OF THE PARTY OF T		10				Springfield Street	0	
Peblo Mill Road	Parliament Street .	. 2	6				Spring Hill Passage		10
Peen Street	W-111- MIII D 1	1	5	S			Spring Road		5
Penn Street, Deritend	David Oldmank	1 1							
Pershore Road   Pershore Road   Pershore Road   Pershore Road   Pershore Road   Pershore Street   Phillip's St. St. Martin's   1	Penn Street, Deritend	1	3				Staniforth Street		
Pershore Street	and the second	1					Discourse David		
Phillip's St. St. Martin's   Phillip's St. George's   3   3   3   3   3   3   3   3   3									
Pickford Street	Phillip's St., St. Martin'	8			2				25
Piddock Street	Dielefoud Stueet	1		Campage Dand	- 0				l
Pigott Street	Diddon's Stunet	1		Sampson Road North	2	1	Steward Street	9.0	18
Pitney Street	Pigott Street	1 3	10	Sand Pits	1				
Pitsford Street	Didmon Obsessed	-	1	Candan Dand	1 4			1 0	11
Plough and Harrow Road   Pope Street   St. Augustine's Road   St. Andrew's Street   St. Andrew's Street   St. Andrew's Road   Stoney Lane   Stour Street   St. Andrew's Road   Stratford Place   Stratford Road   Stratford Road   Stratford Street   St. Andrew's Road   Stratford Road   Stratford Street   St. Andrew's Road   Stratford Street   Stratford Street   St. George's Street   St. George's Place   Stratford Street   St. George's Place   Stratford Street   St. George's Place   St. George's Place   St. George's Place   St. George's Place   St. James' Road   Summer Hill Road   Summer Road   Sum Street   Sum Str	Ditafond Otmork	- 3	2	Candy Tana	100				-
Pope Street	Plough and Harrow Roa	d		Sarah Street		1000	Stone Yard (Edgbaston)	)	1
Poplar Avenue West   Porchester Street   1   3   St. Andrew's Road   1   St. Clement's Road   St. Stratford Road   4   16   St. George's Crescent   St. St. George's Street   9   16   Stratford Street   2   6	Pope Street	100	10	Ot Androw's Others	1 0	0	Okasan Okasak	- 10	77
Porchester Street	Perday Avenue West			St Androw's Dond			Stantford Diago		11
Portland Road   St. George's Crescent   St. George's Street   Other Street   St. George's Street   Other Street   St. George's Street   Other Street   St. George's Place   Other Street   St. George's Place   Other Street   St. George's Place   Other Street   St. George's Terrace   Summerfield Road   Summer Hill Road   Other Street   St. James' Place   Other Street   St. James' Place   Other Street   Other	Porchester Street			St. Clement's Road .		-	Stratford Road	. 4	
Poultry	Portland Road							. 2	
Powell Street	Poultres		3	St Cooppe's Diago	1 6		Onners self-1d Ward		18
Prescott Street         4         7         St. James' Place         3         5         Summer Hill Street         8         9           Price Street         5         14         St. James' Road         1         Sammer Hill Terrace         2         2           Prisestley Road         6         1         St. James' Street         1         4         Summer Lane         17         39           Princes Row         1         St. Luke's Road         5         10         Summer Road         5         9           Princes Street         2         3         St. Mark's Street         2         6         Summer St., Edgbaston         4         4           Princes Road         1         St. Mark's Street         2         6         Summer St., Edgbaston         4         4         4           Princes Road         1         St. Martin's Lane         2         6         Summer St., Edgbaston         4 </td <td>Powell Street</td> <td>70</td> <td></td> <td>St. George's Terrace .</td> <td></td> <td></td> <td></td> <td>100</td> <td>4</td>	Powell Street	70		St. George's Terrace .				100	4
Pricetley Road	Prescott Street	. 4	1 7	St. James' Place	- 0		Summer Hill Street .	1 0	9
Primrose Hill	Pringtley Dond	1 2		St Turnou! Street			Daniel V	2.00	
Princes Row         2         3         St. Luke's Street         1         7         Summer Row         5         9           Princes Street         2         3         St. Mark's Street         2         6         Summer St., Edgbaston         4	Primrose Hill			St. Luke's Road			Common Days	-	28
Princes Street	Princes Row			St. Luke's Street	. 1	7	Summer Row	. 5	9
Princip Street         4         8         St. Martin's Lane         2         10 <td< td=""><td>Princess Dood</td><td></td><td></td><td>St. Mark's Street</td><td>. 2</td><td></td><td>Summer St., Edgbaston</td><td></td><td>4</td></td<>	Princess Dood			St. Mark's Street	. 2		Summer St., Edgbaston		4
Priory Read Pritchett's Lane Pritchett Street Proctor Street Proctor Street Prospect Row Prischett Street Prospect Row Prischett Street Prospect Row	Princip Street			St Martin's Lone		6	Sam Stuart		
Pritchett Street 10 19 St. Martin's Street 2 6 Swallow Street 2 4 Proctor Street 2 4 St. Mary's Row 1 Swan Passage 2 Swan Passage	Priory Road			St. Martin's Place		1 3	Sun Street West	1	10
Proctor Street 2 4 St. Mary's Row 1 Swan Passage	Pritchett's Lane		0 70	St. Martin's Row		1 1	Sutton Street		4
Prospect Row . 1 3 St. Mary's Street	Proctor Street			St Marv's Row			Swallow Street	0	2
THE SYMPHOLIC HOLD IN COLUMN TO STATE OF THE SYMPHOLIC HOLD IN COLUMN TO STATE	Progrant Dom	- 1		Q4 Mayorla Stunet		1 4	Rudonkow Dead		1

STREETS.	Zymotic Diseases	Other	STREETS.	Zymotic Diseases	Other Diseases	STREETS.	Zymotic Diseases	Other
т			Vauxhall Road	9 1 5	22 5 9	Winson Green Road Winson Street Witton Street Woodbourne Road	6	14 5 7
Talbot Street	3	16	Victoria Grove Victoria Street Villa Street	1	1 4 5	Woodcock Street Wood Street, St. Thomas' Wood Street, Ladywood	1	9
Tanter Street Taylor Street Temple Field Street	3 4	5 5	Villiers Street	1	3 1 2	Worcester Street Worcester Wharf Wordsworth Road	1	1
Temple Row West Temple Street		3	Vyse Street		4	Wrentham Street Wright Street Wrotteslev Street	6	14
Tenby Street Tenby Street North Tennant Street	1 6	3 2 15	W Walter Street	1	4	Wyndham Road Wynn Street	3	1 2 18
Theresa Road	1 2	9 2 10	Ward Street Warner Street Warstone Lane	1 1 5	12 3 21	×		
Thomas St., St. Mary's Thomas Street, Deritend Thorp Street	4	6	Warstone Parade East Warstone Parade West Warwick House Passage		2			
Tillingham Street Tindal Street Tonk Street	5	6 6 2	Warwick Street Washington Street Waterloo Street	7	13 3 2	Yew Tree Road York Passage		1
Tower Street	10	30	Water Street Waterworks Road Watery Lane	3 18	14 2 18	York Road		1 2
Trinity Terrace	11	8 6	Watts Road	6	1 15 1	z		
Tyndan Street			Wellington Passage Wellington Road		4	. ADDENDA.		
U	1		Wellington Street Well Lane Well Street	5 10	8 24	Bordesley Station Rotton Park Reservoir Soho Railway Station		5 1 1
Unett Street Union Passage	4	24	Westbourne Road Western Road Westfield Road			Birmingham and Warwick Canal		4
Union Street		1	Westley Street Weston Street Wharf Lane	1	3 2 2	Pebble Mill Pool Old Birmingham Canal Hockley Railway Station		1 3 2 2 1
Upper Gough Street Upper Highgate Street Upper Hockley Street	1 2 1	6 3 1	Wharf St., St. Thomas' Wharf Street, Deritend Wharf Street, Duddeston	5	10	River Rea		1 1
Upper Hospital Street		16 2	Wharf Street, All Saints' Wharton Street Wheeler Street	9	1 7 15			
Upper Priory	3	6	Wheeley's Lane Wheeley's Road	1	3 -	AT INSTITUTIONS.	1	
Upper Trinity Street	9	8 14	White Road Whitmore Road Whitmore Street	2 2	9 9	General Hospital Queen's Hospital Children's Hospital		182 121 65
			Whittall Street	2	6	Workhouse		523 76 6
<b>v</b>			William Henry Street William St., St. Thomas' William Street, Deritend	7 2	1 18 1	Borough Hospital Homœpathic Hospital Women's Hospital,	71	1 2
Vale Street	3	6	William Street North Willis Street Wilton Street	3 5 1	3 9 2 3	Deaf and Dumb Institu-		7
Vaughton Street	3 1	18	Windmill Hill Windmill Street	3	3 2			

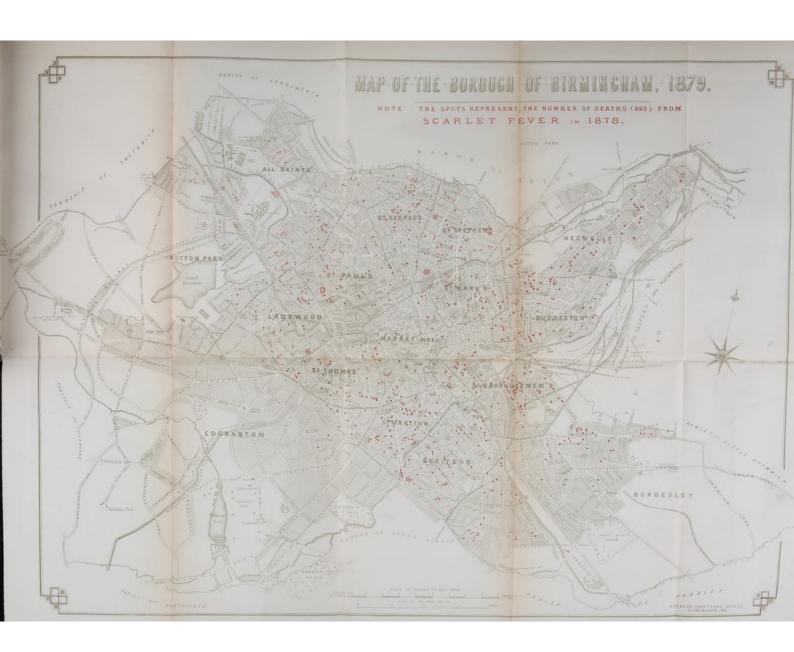




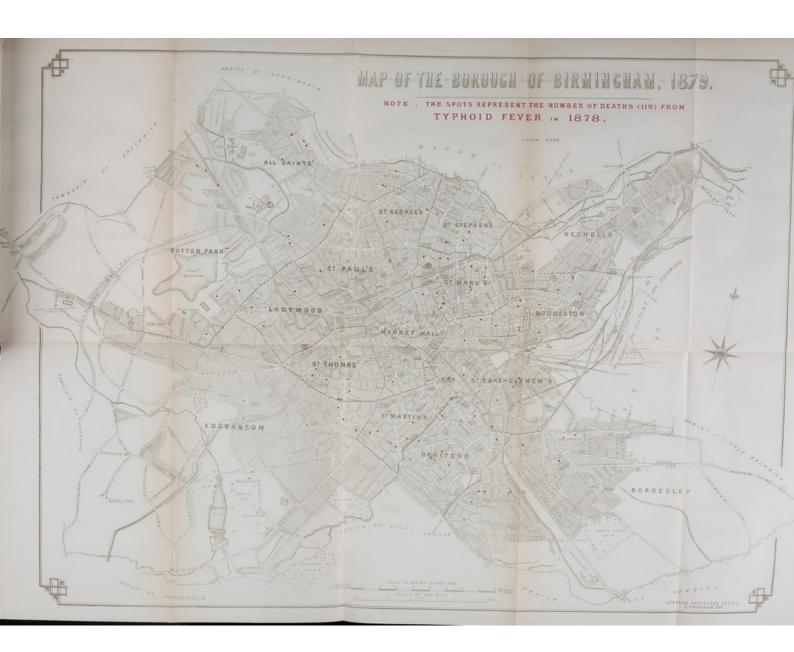














## BOROUGH ANALYST'S LABORATORY,

PUBLIC OFFICE, BIRMINGHAM,

May 3rd, 1879.

## TO THE HEALTH COMMITTEE.

## MR. CHAIRMAN AND GENTLEMEN,

I beg to report that during the year 1878 I have analysed 158 articles of food and drink, of which the following are the particulars:—

Took and drink, or which the following the	o the particulars .
No. DATE.—1878. ARTICLES.	REMARKS.
509—Jan. 1st Milk	Adulterated with 16% of water. Private
The state of the s	purchaser. No prosecution.
"510—Feb. 8th Milk	Adulterated with 28% of water. Private purchaser. No prosecution.
511Mar. 15th Mustard	Genuine.
512— " Mustard	Genuine.
513— " Mustard	Genuine.
514— " Mustard	Genuine.
515— " Mustard	Genuine.
	Genuine.
516— " Mustard	Adulterated with 6% of water. Private
	purchaser.
518 " Tea	Genuine.
519— " Tea	Genuine.
520— " Tea	Genuine.
521— " Tea	Genuine.
522— " Tea	Genuine.
523— " Tea	Genuine.
524—Mar. 26th Coffee	Genuine.
525— " Coffee	Adulterated with chicory.
526— " Coffee	Slightly adulterated.
527— " Coffee	Genuine.
528— " Coffee	Adulterated with chicory.
529— " Coffee	Genuine.
530-Mar. 27th Milk	Genuine.
531— " Milk	Genuine.
532— " Milk	Genuine.
533— " Milk	Genuine.
534—Mar. 29th Milk	Slightly Adulterated.
535— " Milk	Genuine.
536— " Milk	Adulterated with 75% of water, or upwards
	8 parts of water added to 100 of milk.
537— " Milk	Genuine.
538—April 29th Milk	Genuine.
539 " Milk	Nearly genuine.
540— " Milk	Adulterated with 7% of water.
541— " Milk	Adulterated with 8% of water.
542—May 6th Black Tea	Genuine.
543— " Black Tea	Genuine.
544— " Black Tea	Genuine.
545—May 7th Milk	Adulterated with 9.5 % of water.
546— " Milk	Adulterated with 6 % of water.
547— " Milk	Adulterated with 5 % of water.
548— " Milk	Nearly genuine.
549—May 13th Black Tea	Genuine.
550— " Black Tea	Genuine.
551— " Black Tea	Genuine.
552— " Coffee	Genuine.
553 — " . Black Tea	Genuine.
554— " Coffee	Genuine.
555—May 14th Milk	Adulterated with 11.3 % of water.
556—May 20th Coffee	Genuine.
-557— " Coffee	Genuine.

	REMARKS.
ARTICLES.	Genuine.
No. DATE -1010. Coffee	A state
558—May 20th White Pepper White Pepper	Adulterated with 5 % of Earthy matter.
Black Pepper	
White Penper	Adulterated with 6 % of Earthy matter.
Black Pepper	Genuine.
act Ala	Cannine
Ala	Contained 63 grains of Salt per gallon.
	Adulterated with 27% of water. Fined
565— " Ale	20/- and costs.
	Adulterated with 19% of water. Fined 10/-
307	Genuine. [and costs.
200	Adulterated with 19.5 % of water.
Milk	Genuine.
Milk	Genuine.
Drift Talwoth Milk	Genuine.
Flour	Genuine,
570 " Flour	Genuine.
Flour	Genuine.
Flour	Genuine.
575 " Flour	Genuine.
576- " Flour	Genuine.
577- " Tilana	Genuine.
578- Flowe	Genuine.
579— Flour	Genuine.
580— Flour	Genuine.
D81— Mills	Genuine,
Will-	Genuine.
500 Ang 24th Ale	Contained 94.32 grains of salt per gallon.
FOE H AIC	
596 H Ale	Genuine. [Fined 20]- and costs.
587_Aug. 26th Ale	Genuine.
588 n A10	Genuine.
303— Ala	Genuine,
590— " Ale	Genuine.
DOI Ale	Genuine.
Ale	Genuine.
593— " Ale	Genuine.
EOE " Ale	Genuine.
596_Aug. 30th Gin	Genuine.
597— " Gin	Genuine.
598 " Gin	Genuine, nearly Genuine.
599— " Gin	Adulterated with Water, 28° under proof.
600— " Gin	Genuine.
601— " Gin	Adulterated with 28 % of Water. Case
602-Aug. 5150 Milia	dismissed through an informality.
603— " Milk	Adulterated with 10 % of Water.
604— " Milk	Genuine.
605— " Milk	Genuine.
606—Sept. 6th Milk	Adulterated with 16 % of Water, and
	Cream abstracted. Case dismissed
goz Cont oth Will.	through an informality.  Adulterated with 22 % of Water. Ditto.
607—Sept. 9th. Milk	Adulterated with 12 % of Water. Ditto.
608— " Milk	Adulterated with 12 % of Water. Ditto.  Adulterated with 20 % of Water. Ditto.
610— " Milk	Adulterated with 18 % of Water. Ditto.
611—Sept. 12th Gin	Genuine.
612— " Gin	Genuine,
613— " Gin	Genuine.
614— " Gin	
615— " Gin	Genuine.
616— " Gin	Genuine.

No.	DATE.—1878.	ARTICLES.	REMARKS.
	Oct. 3rd	Butter	Genuine.
618-		We will be a second of the sec	Genuine.
619-0	oct. 8th	Milk	Adulterated with 8.5 % of Water.
620-		Butter	Genuine.
621		The state of the s	Genuine.
622-	11	Butter	Genuine.
623-	h	Butter	Genuine.
624-		Butter	Genuine.
625-	11	Butter	Genuine.
626-	11	Butter	Genuine.
627-		Butter	Genuine.
628-		Butter	Genuine-
629-		Butter	Genuine,
630—I	Dec. 2nd	Sherry	Genuine
631-		Sherry	Genuine.
632-		Sherry	Genuine.
633-		Sherry	Genuine.
634-		Sherry	Genuine.
635-		CV1	Genuine.
636—I	ec. 6th	Milk	Adulterated with 22 % of Water. Fined 10/-
637-		Milk	Genuine. [and costs.
638-		Milk	Adulterated with 13 % of Water. Fined
639—I	ec. 14th	Coffee	Genuine. [2/6 and costs.
640-		Coffee	Genuine.
641-		Coffee	Genuine.
642-		Coffee	Genuine.
643-		Coffee	Genuine.
644-		Contract Con	Genuine.
645—D	ec. 19th	Mustard	Genuine.
646-	11	Pepper	Genuine.
647—	0	Mustard	Genuine.
648-		Pepper	Genuine.
649—		Mustard	Genuine.
650-		Pepper	Genuine.
651—		Mustard	Genuine.
652-		Pepper	Genuine.
653—D	ec. 19th	Mustard	Adulterated with 25 % of Wheat Flour and Turmeric.
654-		Pepper	Genuine.
655-		Mustard	Genuine.
656-		Pepper	Genuine.
657—		Mustard	Genuine.
658-		Pepper	Genuine.
659-		Mustard	Genuine.
660-		Pepper	Genuine.
661-		Mustard	Genuine.
662-		Pepper	Genuine.
663-		Mustard	Genuine.
664—		Pepper	Genuine.

## The articles examined comprised-

42	Samples of	Milk.
17	"	Coffee.
16	"	Mustard.
15	11	Ale.
14	11	Pepper.
13		Tea.
12	- 11	Gin.
12	11	Butter.
11	"	Flour.
6	11	Sherry.
_		The state of the s

Total 158

Out of the 158 samples examined, 34, or upwards of 21 per cent., were adulterated.

Of the 42 samples of Milk, so many as 24, or 57 per cent, had been diluted with water and in one instance a portion of the cream had also been abstracted.

Three of the 17 samples of Coffee were more or less adulterated with Chicory, while one of the 16 samples of Mustard contained 25 per cent. of Wheat Flour and Turmeric.

In two of the samples of Ale analysed there was an excessive quantity of Salt, and in two of the Peppers I found a larger quantity of mineral matter than is naturally present in genuine samples of this condiment.

Two of the samples of Gin were below the allowed standard of strength. The samples of Tea, Butter, Flour, and Sherry were all genuine.

I remain.

Mr. Chairman and Gentlemen,

Your obedient Servant,

ALFRED HILL, M.D., F.I.C., Borough Analyst.