

Quarterly report of the Medical Officer of Health. First quarter, 1903.

Contributors

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Harris, Alfred Edwin.

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*With the Compliments of
the Medical Officer of Health.*

*Town Hall,
Islington N.*





HEALTH OF ISLINGTON.

QUARTERLY REPORT

OF THE

MEDICAL OFFICER OF HEALTH.

First Quarter, 1903.

LONDON:

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QUARTERLY REPORT

ON THE

HEALTH and SANITARY CONDITION of the METROPOLITAN BOROUGH OF **ISLINGTON.**

First Quarter, 1903.

Thirteen Weeks ending 4th April, 1903.

No. 41.

PUBLIC HEALTH DEPARTMENT,

TOWN HALL,

27th April, 1903.

*To the Worshipful the Mayor, Aldermen, and Councillors of the
Borough of Islington.*

GENTLEMEN,

Population.—The population of Islington on which the statistics of this report are based is 339,137. It is distributed to the sub-registration districts as follows:—Tufnell, 32,838, Upper Holloway, 34,822, Tollington, 34,765, Lower Holloway, 41,537, Highbury, 65,112, Barnsbury, 54,278, South-East Islington, 75,785.

The mean population for the ten years 1893-1902, on which the decennial birth, death, and sickness rates have been calculated, is 334,783.

The figures relating to the population of the borough, whether actual or estimated, are those published by the Registrar-General, and the various rates have been calculated on them.

Births.—2,264 births, 1,174 being males and 1,090 females, were registered. These are 252 below the corrected average (2,516) for the preceding ten years, and are equal to an annual birth-rate of 26·70 per 1,000 of the population, as compared with a mean birth-rate of 29·68 in the preceding ten years. In London the rate was 29·1 per 1,000 inhabitants.

The births and birth-rates of the **Sub-registration Districts** were as follows:—

Tufnell	193	births	=	23·50	per 1,000 inhabitants.
Upper Holloway	276	„	=	31·70	„
Tollington	224	„	=	25·77	„
Lower Holloway	273	„	=	26·29	„
Highbury	361	„	=	22·17	„
Barnsbury	433	„	=	31·91	„
Islington South-East	504	„	=	26·60	„
<hr/>					
The Borough	2,264	„	=	26·70	„
<hr/>					

Deaths.—These numbered 1,383, the lowest figure recorded in any corresponding quarter during the last eighteen years. They were 307 less than the corrected average (1,690) of the ten years (1893-1902), and were equal to an annual death-rate of 16·31 per 1,000, as compared with a mean rate in ten years for this quarter of the year of 19·93 per 1,000. The decreased mortality was mainly due to the unusually mild climatic conditions that prevailed during the quarter. The highest number of deaths occurred in the third week in January, and the lowest in the second week in March.

In the County of London the death rate was 16·8, and in the Encircling Districts 16·9 per 1,000.

In the **Sub-registration Districts** the deaths were as follows:—Tufnell 107 deaths, Upper Holloway 151, Tollington 140, Lower Holloway 181, Highbury 229, Barnsbury 249, and Islington South-East 326.

These deaths represented a death-rate of 13·04 in Tufnell, 17·34 in Upper Holloway, 16·10 in Tollington, 17·43 in Lower Holloway, 14·06 in Highbury, 18·35 in Barnsbury, and 17·20 in South-East Islington.

In the **Wards** the several returns were as follows:—

Wards.	Deaths.	Death-rates.	Wards.	Deaths.	Death-rates.
Tufnell - -	107	13·04	Thornhill - -	161	19·30
Upper Holloway -	151	17·34	Barnsbury - -	88	16·83
Tollington . -	140	16·10	St. Mary - -	64	14·80
Lower Holloway -	181	17·43	Canonbury - -	135	17·32
Highbury . -	132	15·14	St. Peter - -	140	17·11
Mildmay - -	84	13·51			

Ages at Death.—Of the 1,383 deaths, 329 were under a year old, which is 4 above the average of the preceding ten years. The deaths under five years were 528, or 30 below the average of the first quarters of these years. The deaths above five years numbered 855 and were 255 above the average.

Ages.	Number of Deaths.	Mean Deaths (10 years), 1893-02.	Increase or decrease on Mean.
0—1	329	325	+ 4
1—5	199	233	— 34
5—15	43	54	— 11
15—25	42	64	— 22
25—35	65	92	— 27
35—45	101	134	— 33
45—55	121	160	— 39
55—65	151	193	— 42
65—75	165	211	— 46
75—85	130	162	— 32
85 upwards	37	40	— 3
	<u>1,383</u>	<u>1,668</u>	<u>— 285</u>

Causes of Death (Classified).—Compared with the first quarters of the preceding eight years the deaths from diseases of the following classified causes showed a decrease, viz. :—Miasmatic Diseases 35, Constitutional 32, Developmental 51, Nervous System 46, Respiratory 123, Digestive System 13, Venereal 1, Dietic 1, Urinary System 2, Reproductive System 2, Integumentary System 4, Violence 1, and from Ill-defined causes 22; whilst from the under-mentioned diseases there was an increase, namely, 4 from Diarrhœa, 7 from Septic Diseases, 4 from Organs of Special Sense, 11 from Circulatory System, 1 from Parasitic Diseases, 3 from Lymphatic system, and 1 from Diseases of Bones and Joints.

Infantile Mortality.—There were 329 deaths of infants under a year old, or 4 above the average (325) of the preceding ten years at this period of the year. These deaths represented an infantile mortality rate of 145 per 1,000 infants born, as compared with 135 per 1,000 in the first quarters 1893-02. In London the rate was 127; and in the encircling Boroughs 121. In the latter the mortality in the separate Boroughs was as follows:—St. Pancras 123, Stoke Newington 127, Hackney 115, Hornsey 100, Finsbury 136 and Shoreditch 123.

In the **sub-registration districts** the Infantile deaths and the proportional mortality to births were as follows:—

	Deaths under one year.	=	Deaths per 1,000 Births.
Tufnell - - -	27	=	140
Upper Holloway -	45	=	163
Tollington - - -	32	=	143
Lower Holloway -	45	=	165
Highbury - - -	50	=	138
Barnsbury - - -	48	=	111
Islington, South-East	82	=	163
	<hr/>		<hr/>
The Borough	329	=	145
	<hr/>		<hr/>

DEATHS IN PUBLIC INSTITUTIONS.

Within the Borough.—385 deaths occurred in the Public Institutions of Islington, of which only 222 could be described as belonging to this borough, the remaining 163 having only come here for treatment or relief. Among the latter were 136 persons who died in the Holborn Infirmary and 14 other persons who died in the Great Northern Central Hospital.

Of the 222 deaths of inhabitants, 168 occurred in the Islington Infirmary, 24 in the Islington Workhouses, and 21 in the Great Northern Central Hospital. The proportion which the 222 deaths bore to the total mortality was 16·0 per cent.

Without the Borough—166 deaths of persons belonging to Islington were registered as occurring in Public Institutions in other parts of London outside the Borough. These included, amongst others, 25 in the North-Eastern Fever Hospital, 6 in University Hospital, 4 in the Eastern Fever Hospital, 10 in the Childrens' Hospital, Great Ormond Street, 13 in St. Bartholomew's Hospital, 14 in the Colney Hatch Asylum, 10 in the Royal Free Hospital, and 7 in the Hanwell Asylum.

These 166 deaths represented 12·0 per cent. of all the deaths registered in the quarter.

Within and Without the Borough.—These deaths numbered 551, and were equal to 39·8 per cent. of the total deaths registered during the first quarter.

Fatal Accidents or Sudden Deaths outside the Borough.—Six inhabitants died from accidental deaths, or suddenly in places outside Islington.

It may be of interest to contrast the foregoing figures with those of preceding years.

1st Quarter of Years.	Total Deaths in Local Institutions.	Inhabitants of Islington in Local Institutions.	Non-Inhabitants of Islington in Local Institutions.	Inhabitants in Islington Infirmary.	Inhabitants of Islington in G.N.C. Hospital.	Inhabitants of Islington in Institutions outside the Borough.	Total Deaths of Inhabitants in all Institutions.
1895	382	220	162	189	15	126	346
1896	336	204	132	152	25	173	377
1897	348	201	147	157	23	160	361
1898	371	222	149	179	26	148	370
1899	442	281	161	225	34	111	392
1900	529	341	188	267	35	146	487
1901	377	262	115	218	28	137	399
1902	472	280	192	186	33	216	496
Average	407	251	156	197	27	152	403
1903	389	222	167	168	21	172	394

CONSTITUTIONAL DISEASES.

Cancer was the registered cause of the deaths of 90 persons, of whom 38 were males, and 52 females, representing an annual death-rate of 1.06 per 1,000 inhabitants. These deaths are 2 below the corrected average (65) of the first quarters of the preceding ten years, and represent a decrease in the death-rate of 0.03 per 1,000.

The ages at death were as follows:—

Years:	Years.
0—5 - - 2 deaths.	45—55 - - 22 deaths.
5—15 - - 1 death.	55—65 - - 22 „
15—25 - - 1 „	65—75 - - 17 „
25—35 - - 2 deaths.	75—85 - - 6 „
35—45 - - 17 „	85 and upwards - - — „

The deaths were distributed in the sub-districts as follows:—

Tufnell	6 deaths.
Upper Holloway	9 „
Tollington	10 „
Lower Holloway	7 „
Highbury	19 „
Barnsbury	16 „
Islington South-East	23 „
The Borough	90

Phthisis caused 108 deaths (as against an average of 153 in the first quarters of the preceding ten years) which were equal to an annual death-rate of 1·27 per 1,000.

The ages at death were as follows :—

Years.	Deaths.	Years.	Deaths.
0—5	11	45—55	19
5—15	2	55—65	15
15—25	6	65—75	4
25—35	21	75—85	1
35—45	29	85 and upwards	—

Other Tubercular Diseases—In addition to the deaths from Phthisis there were 35 other tubercular diseases, namely from

Tabes Mesenterica	9
Tubercular Meningitis	19
Tuberculosis of the Larynx	1
General Tuberculosis	5
Other forms of Tuberculosis	1

These bring up the total deaths from tubercular diseases to 143 which are equal to an annual death-rate of 1·69 per 1,000 inhabitants.

The distribution of these deaths in the sub-registration districts was as follows :—

	Phthisis.	Tabes Mesenterica.	Tubercular Meningitis.	Tuberculosis of Larynx.	General Tuberculosis.	Other forms of Tuberculosis.	TOTALS.
Tufnell	8	1	—	—	—	—	9
Upper Holloway	11	2	1	—	1	—	15
Tollington	13	2	—	—	1	—	16
Lower Holloway	15	—	3	—	1	1	20
Highbury	15	1	7	—	1	—	24
Barnsbury	15	—	4	—	—	—	19
Islington South-East	31	3	4	1	1	—	40
The Borough	108	9	19	1	5	1	143

DEATHS FROM THE ZYMOTIC DISEASES.—To these diseases the **deaths** of 170 persons were ascribed, which were equal to an annual **death-rate** of 2·00 per 1,000 inhabitants. These returns compare

satisfactorily with the corrected average of 178 and the mean death-rate of 2·13 in the first quarters of the ten years 1893-1902. The deaths are, therefore, 8 below this average, and the death-rate 0·13 below the mean.

The death-rate was 1·83 per 1,000 in the County of London, while in the Encircling Boroughs the zymotic death-rate was 1·83 per 1,000, whilst in St. Pancras it was 2·07, in Stoke Newington, 1·69, in Hackney, 1·61, in Hornsey, 1·17, in Finsbury, 2·17, and in Shoreditch, 2·01 per 1,000.

Locally the deaths and death-rates of the **Sub-registration Districts** were as follows:—

		Death-rates.
Tufnell - - - -	14 deaths	= 1·70
Upper Holloway - - -	17 „	= 1·95
Tollington - - - -	23 „	= 2·64
Lower Holloway - - -	26 „	= 2·50
Highbury - - - -	26 „	= 1·60
Barnsbury - - - -	40 „	= 2·95
Islington South-East - -	24 „	= 1·27
	170 „	= 2·00
	170 „	= 2·00

Small Pox.—No death was registered from Small Pox during the quarter, as against an average of 2 deaths in the first quarters of the ten years, 1893-1902.

Measles was credited with 35 deaths, or 29 less than the corrected average (64) of the preceding ten first quarters of the year. Pneumonia was ascribed as a secondary cause in 26 of these deaths, Bronchitis in 5, and Empyema in 1, or altogether 32 from these affections of the respiratory organs.

In the borough the death-rate was equal to 0·41 per 1,000 inhabitants per annum, in London 0·58, and in the Encircling Boroughs 0·65.

Scarlet Fever.—Only 9 deaths were registered, or 3 more than the corrected average (12) of the ten preceding first quarters. The death-rate was 0·10.

Diphtheria caused 20 deaths, which were equal to a death-rate of 0·24 per 1,000 inhabitants, as against a corrected average of 37, and a mean death-rate of 0·43 per 1,000.

Whooping Cough showed an increased mortality, for 88 deaths were ascribed to it, whereas the average mortality has been 48, and were equal to a death-rate of 1·04 per 1,000 inhabitants.

Typhus Fever.—*Nil* return. During ten years only one death has been registered in the first quarter, namely in 1895.

Enteric Fever caused 7 deaths, or one less than the average (8) for the ten preceding first quarters, and produced a death-rate of 0.08.

Diarrhœal Diseases.—These led to 10 deaths, which were 4 above the corrected average (6), and the death-rate was 0.12 per 1,000.

Continued Fever.—Only one death was ascribed to this disease.

OTHER INFECTIOUS DISEASES.—**Influenza** returned only 30 deaths, compared with a corrected average of 51, the resulting death-rate being 0.35, as against a mean rate of 0.59.

Puerperal Fever.—3 deaths were registered, or one above the average (2). This death-rate was in the proportion of 1.32 per 1,000 children born, as against 0.79 per 1,000 births in the preceding ten first quarters.

Erysipelas.—Only 2 deaths were recorded, as against 4 in the corresponding quarter of last year.

THE NOTIFICATION OF INFECTIOUS DISEASES.

These diseases comprise *Small Pox, Scarlet Fever, Diphtheria, Membranous Croup, Enteric Fever, Typhus Fever, Continued Fever, Erysipelas and Puerperal Fever.*

The total number of cases notified was 437, which produced an annual attack-rate of 5.15 per 1,000 inhabitants. They show a decrease of 209 on the average (646) which obtained in the first quarters of the preceding ten years. This was due to a decrease, on the average of ten years, of 109 cases of Scarlet Fever, 36 cases of Diphtheria, 22 cases of Enteric Fever, and 21 cases of Erysipelas.

In London the attack-rate was 6.15 per 1,000, or 1.00 higher than in Islington, while in the Encircling Boroughs it was 6.21, or 1.06 higher than here.

Small Pox.—No case was known in the borough during the quarter, as compared with 121 cases in the corresponding quarter of last year, whilst the average for the previous ten (first quarters) was 19.

Scarlet Fever, of which 199 cases were notified, showed a decrease of 109 on the corrected average (308) of the first quarters 1893-1902. The attack-rate was equal to 2.35 per 1,000 inhabitants annually, which is a

decrease of 1.28 per 1,000 on the mean rate (3.63) of the preceding ten first quarters.

Diphtheria and Membranous Croup were not so prevalent, but were, however, responsible for 146 cases of illness, or 36 below the corrected average (182) of the first quarters of the preceding ten years. The attack-rate was equal to 1.72 per 1,000 inhabitants annually, or 0.43 per 1,000 below the mean rate (2.15) of these quarters. In January the cases averaged 14 per week; in February they fell to 11 per week; and in March to 11 per week. The weekly average for the quarter was 11 cases. The chief incidence of the disease fell on Lower Holloway, Upper Holloway, Tollington and Tufnell Wards, where the attack-rates were respectively 4.53, 1.95, 1.84 and 1.58 per 1,000 inhabitants.

In London the attack-rate was 1.95 per 1,000, and in the Encircling Boroughs 2.18.

Enteric Fever was notified in 23 instances, or 22 less than the corrected average of 45 which obtained during the first quarters of 1893-2. The attack-rate was 0.27 per 1,000 annually, or 0.26 per 1,000 below the mean rate (0.53) of the first quarters during the last ten years. In London the rate was 0.38 and in the Encircling Boroughs 0.43 per 1,000.

Typhus Fever.—*Nil* return.

Erysipelas.—Sixty-three cases were notified, or 21 less than the corrected average (84) of the first quarter of the preceding ten years, the attack-rate being 0.74 per 1,000, as compared with 0.96 in London, and 0.96 in the Encircling Boroughs.

Puerperal Fever.—Four notifications were received, being in the proportion of 1.77 cases per 1,000 births. These figures represent a decrease of 3 on the average number of cases and of 1.32 in the proportion of attacks to births.

Continued Fever.—Two cases were notified, compared with a corrected average of 1, in the first quarters of the ten years 1893-1902.

HOSPITAL TREATMENT OF THE INFECTIOUS DISEASES.

There were 316 cases isolated in hospital equal to 72.3 per cent. of the 437 cases which were notified during the quarter.

This proportion contrasts with previous first quarters as follows :—

1896	-	46·8 per cent.	1900	-	62·6 per cent.
1897	-	55·0 „	1901	-	67·1 „
1898	-	53·8 „	1902	-	71·7 „
1899	-	62·0 „	1903	-	72·3 „

This percentage has not been exceeded in any previous first quarter.

The particulars respecting each disease are as follows :—

Scarlet Fever	-	174 out of 199 notified cases, or 87·4 per cent.	were isolated.
Diphtheria	-	115 „ 146 „ „	78·7 „ „
Enteric Fever	-	16 „ 23 „ „	69·5 „ „
Erysipelas	-	9 „ 63 „ „	14·3 „ „
Puerperal Fever	-	1 „ 4 „ „	25·0 „ „
Continued Fever	-	1 „ 2 „ „	50·0 „ „

FATALITY.—Of the 199 Scarlet Fever cases there died 4·5 per cent.; of the Diphtheria cases 13·7 per cent.; of the Enteric Fever cases 30·4 per cent.; of the Erysipelas cases 3·2 per cent.; of the Puerperal Fever cases 75 per cent.; and of the Continued Fever cases 50 per cent. The fatality among all the notified cases was 9·6 per cent.; and of all cases treated in hospital 10·1 per cent. and at home 8·2 per cent.

DISINFECTATION.—Houses.—474 rooms were disinfected with formaldehyde in the first quarter, as compared with 975 in the corresponding period of last year, while 35 rooms were stripped as against 872.

In consequence of the prevalance of Measles, Scarlet Fever, and Diphtheria amongst the scholars, the Infants' departments of the following schools were disinfected :—

York Road Board School	St. John's Schools, Duncan Street
Hungerford Road Board School	St. John's Schools, Conewood Street
Westbourne Road Board School	St. Mary's Schools
Pakeman Street Board School	Caledonian Asylum
Hornsey Road Board School	Alexandra Orphanage
Wesleyan Schools, Drayton Park	

Bed Clothing, etc.—5,254 large articles, such as bedding or carpets, were disinfected by the Steam Disinfector, at the Council's Disinfecting Station, compared with 10,639 large articles disinfected in the first quarter of last year. Among them were 414 beds, 735 blankets, 278

bolsters, 266 mattresses, 286 palliasses, 708 pillows, 646 sheets, and 1,339 smaller articles which are not classified but disinfected in parcels.

Shelter House.—During the first quarter no application was received for admission into the Shelter House.

BACTERIOLOGICAL DIAGNOSES.—63 examinations were made of sputum, blood and membrane of patients suspected to be suffering from either Phthisis, Enteric Fever, or Diphtheria, of which 17, or 27 per cent., gave positive results.

Diphtheria.—22 cases were examined, and in 5, or 22·7 per cent., the disease was identified.

Enteric Fever.—14 specimens of blood were submitted for examination, of which 2, or 14·3 per cent., gave indications of the disease.

Phthisis.—27 specimens of sputum were examined, and in 10, or 37 per cent., tubercle bacilli were discovered.

INFECTIOUS DISEASES IN THE PUBLIC ELEMENTARY SCHOOLS.

Notifiable Infectious Diseases.—Out of the total number of infectious diseases (437) notified during the quarter 196 occurred among children attending the Public Elementary Day Schools, of whom 123 were attacked with Scarlet Fever, 61 with Diphtheria, 7 with Enteric Fever, and 5 with other Fevers.

Scarlet Fever was most prevalent in the following schools, viz:—Yerbury Road (7); Catholic School, Eden Grove (7); St. John's, Conewood Street (11); and Richard Street Board School (9).

Diphtheria occurred in 25 out of 55 schools. The largest number of recorded cases was referred to Brecknock, Hungerford and Canonbury Road Board Schools, in each of which there were 11, 7 and 5 cases respectively.

Enteric Fever.—Only 7 cases occurred among the scholars of 6 schools.

In addition to the 196 cases of notifiable diseases among scholars, 122 cases occurred among children and adults who resided in houses from which children attended the schools.

Non-Notifiable Diseases.—A large number of cases (1,103) have come to my knowledge during the quarter. They comprised 533 cases of Measles, 115 of Whooping Cough, 107 of Chicken Pox, and 348 of other diseases.

The information respecting these cases was received for the most part from the teachers of 41 schools, to whom the Public Health Department feel much indebted.

INSPECTION AND EXAMINATION OF FOOD AND PLACES WHERE FOOD IS PREPARED.

Food—Inspection of.—Inspector Wilkinson reports that during the quarter he has paid 655 visits to the 42 slaughter houses, in which he has ascertained that 9,598 animals were killed, namely:—668 oxen, 102 cows, 8 calves, 31 pigs, and 8,789 sheep.

The total amount of unsound or diseased meat destroyed was 16 cwt., 2 quarters. 10 lbs. The diseases from which the animals suffered are set out in detail in his report.

Cow Houses.—These, which number 13, were visited systematically, 38 inspections having been made.

Offensive Trade Establishments.—47 visits have been paid to these places, and 13 visits to the knacker's yard. In none of these has there been cause for complaint.

Mr. H. WILKINSON'S REPORT.

PUBLIC HEALTH DEPARTMENT,
TOWN HALL,

UPPER STREET, N.

To A. E. HARRIS, ESQ.,
Medical Officer of Health.

April 21st, 1903.

DEAR SIR,

I have pleasure in submitting my report for the quarter ending April 4th, 1903, on the inspection of slaughterhouses, butchers' meat, etc., etc. During the quarter 655 visits have been paid to the 42 slaughterhouses within the Borough, the whole of which have been kept in satisfactory sanitary condition.

The numbers of animals slaughtered therein during the period were as follows, viz. :—

Oxen.	Cows.	Calves.	Sheep.	Pigs.	TOTALS.
668	102	8	8,789	31	... 9,598

These, generally speaking, were of good quality, but tuberculous lesions were found in the carcase or some individual organ or organs of 35 cattle, 31 of which were cows and 4 oxen; the whole of which carcasses were well nourished and in every case the affection was mild in degree or localised in extent. After the necessary stripping of diseased membranes and the rejection of affected organs or parts the carcasses were passed as fit for human consumption.

The carcasses and organs of two calves which were unwholesome and unfit for human food were condemned, as were also the carcase and organs of a sheep which had died or been slaughtered in a moribund condition.

A large number of organs (various) were condemned on account of other diseases and affections, chiefly of a parasitic nature, particulars of which will also be found in the appended table :—

No.	Description of Carcase.	Extent of Disease or Affection.	Nature of Disease.	How disposed of.
2	Calves ..	Entire carcase and Organs ..	Unwholesome ..	Carcase & Organs destroyed
1	Sheep ..	do. do. ..	do. ..	do. do.
1	Ox ..	Portion of flank, &c. ..	Bruised ..	Bruised parts do.
1	Cow ..	Right flank ..	do. ..	do. do.
1	do. ..	All internal organs—heart ..	Tuberculosis ..	Affected Organs do.
1	Ox ..	All internal organs—heart and liver	do. ..	do. do.
4	Cows ..	Lungs, liver and bronchial lymphatic glands	do. ..	do. do.
1	do. ..	Lungs, tripe, spleen, &c. ..	do. ..	do. do.
3	do. ..	Lungs and bronchial lymphatic glands	do. ..	do. do.
14	do. ..	Lungs	do. ..	do. do.
3	Oxen ..	do.	do. ..	do. do.
2	Cows ..	Livers	do. ..	do. do.
6	do. ..	Mediastinal and other bronchial lymphatic glands	do. ..	do. do.
6	do. ..	Livers	Abscesses ..	do. do.
3	Oxen ..	do.	do. ..	do. do.
3	Cows ..	do.	Distomatosis ..	do. do.
1	Ox ..	do.	do. ..	do. do.
1	Cow ..	Head and tongue ..	Actinomycosis ..	do. do.
13	Sheep ..	Liver and lungs ..	Echinococcus	do. do.
			Veterinorum	
22	do. ..	Lungs	do. ..	do. do.
5	do. ..	Livers	do. ..	do. do.
1	do. ..	do.	Distomatosis ..	do. do.
1	do. ..	Liver, lungs and heart ..	Abscess ..	do. do.
1	do. ..	Lungs	Pseudo-tuberculosis	do. do.
1	do. ..	do.	Congested ..	do. do.
1	do. ..	Kidney and surrounding fat and tissues	Dropsical ..	do. do.

The whole of the foregoing organs, etc., were found in slaughterhouses and were destroyed by owners' consent.

The butchers' shops and stalls, the preserved meat factories, and various food establishments have been regularly and frequently visited, over 1,100 visits being paid to these during the quarter, and the quality of the meat, etc., as a general rule has been good.

The following unsound foods were found during such visits, viz. :—20 lbs. of beef tainted, 5 ox tails tainted, 3 rabbits tainted, 78 lbs. of unsound fruit, and 450 lbs. of ox livers and spleens, which came under your notice and were condemned as unwholesome and unfit for human consumption on account of imperfect preservation in a cold air store. These were all destroyed by owners' consent, and warnings were addressed to persons where any disregard or carelessness concerning the provisions of the unsound food clauses of the Public Health Act were observed.

The approximate weight of diseased and unsound food destroyed during the quarter were as under, viz. :—

	Cwt.	Qrs.	lbs.
Diseased organs, meat, etc., from slaughterhouses	11	2	6
Unsound meat, organs, etc., from shops	4	1	10
Unsound fruit, from shops	0	2	22
Total	16	2	10

The 13 cowsheds have received 38 visits, and have been fairly well kept; the offensive trade establishments have been visited regularly, a total of 47 visits being paid to these; and also 13 visits to the knacker's yard. In none of these has any cause for complaint arisen during the quarter.

I am, Sir,

Yours Obediently,

H. WILKINSON,

Meat Inspector.

Adulteration of Food.—During the first quarter 284 samples of food and drugs were purchased, or procured during transit by the Inspectors, of which, 5 were bought under the Margarine Act; 43 or 15·4 per cent. of the total samples were found upon analysis to be adulterated.

The samples included, Milk, 151; Butter, 41; Coffee, 13; Cocoa, 8; Demerara Sugar, 15; Iron Pills, 6; Cream of Tartar, 2; Tincture of the Perchloride of Iron, 2; Whiskey, 1; Gin, 1. Of these there were adulterated:—Milk 20, or 13 per cent.; Butter 5, or 12 per cent.; Demerara Sugar 7, or 47 per cent.; Iron Pills 4, or 66 per cent.

29 summonses were issued, of which 26 were successfully prosecuted.

Penalties:—Altogether penalties to the amount of £56 were obtained, and of this amount £35 15s. resulted from Inspector Ward's prosecutions, and £20 5s. from the prosecutions by the other Inspectors.

Milk.—The particulars of the Analysis of the Milk samples, which I have now published for several years for the purpose of showing that the official standard is too low, were as follows:—

Milk procured in transit at	No. of Samples.	Solids not Fat.	Fat.	Total solids.
Finsbury Park Station	30	8·70	3·71	12·41
Milks taken on Sundays	52	8·41	3·55	11·96
Milks taken on week-days	69	8·45	3·64	12·00
Official Standard	—	8·50	3·00	11·50

The particulars as to the genuineness or otherwise of the samples procured or purchased on Week-days, Sundays, and at Finsbury Park Railway Station were as follows:—

	Number taken.	Genuine.	Adulterated.	Percentage Adulterated
Samples taken Sundays	52	46	6	11·5
Samples taken on Weekdays	69	56	13	18·8
Samples taken at Finsbury Park Station... ..	30	29	1	3·3
	<u>151</u>	<u>131</u>	<u>20</u>	<u>13·2</u>

PUBLIC ANALYST'S REPORT.

*The Worshipful the Mayor, Aldermen and Councillors of
the Metropolitan Borough of Islington.*

GENTLEMEN,

During the Quarter ending on March 31st, I have analysed 289 samples submitted to me for that purpose under the Sale of Food and Drugs Acts.

Of these samples I had to report against 46, showing 15·9 per cent. of adulterated samples.

These samples came from three sources. 99 were submitted by your Special Food and Drugs Inspector, but his time has been so much occupied by other duties that he has only been able to purchase about two-thirds of his usual number. The advisability of relieving your Food and Drugs Inspector from his other duties is a matter I have commented on previously, and the figures of the present Quarter strengthen my reasons.

Of the 99 samples from your Food and Drugs Inspector 25 samples (or 25·3 per cent.) were adulterated. The second source of supply was your other Inspectors, who submitted 185 samples, of which 18 samples (or 9·7 per cent.) were adulterated; and the third source of supply was a private purchaser, who submitted 5 samples of butter, of which 3 samples (or 60 per cent.) were adulterated. Of the 284 samples purchased officially 43 samples (or 15·1 per cent.) were adulterated.

Previous comments of mine on the prevalence of adulteration in Islington have been the cause of placing me in a most unpleasant position, which is not encouraging to anyone endeavouring to fearlessly and honestly perform his statutory duties. My views have, however, so comparatively recently been placed before you that I trust it is unnecessary on the present occasion to repeat them.

I am, GENTLEMEN,

Your obedient servant,

FRANK L. TEED,

Public Analyst.

Showing the **Samples of Food and Drugs** submitted to, and examined by, the
Public Analyst (Mr. F. L. Teed, D.Sc.) during the **First Quarter, 1903.**

Samples taken.	Description.	Genuine.	Adulterated.
151	Milk	131	20
..	Brandy ... ..	..	..
1	Whisky ... ..	..	1
..	Rum ... ..	..	..
1	Gin ... ..	..	1
8	Cocoa	8	..
13	Coffee	12	1
1	Black Tea	1	..
1	Pepper, White	1	..
2	Pepper, Black	2	..
1	Mustard	1	..
1	Arrowroot	1	..
2	Linseed, Crushed	2	..
..	Bread ... ..	..	..
41	Butter	36	5
1	Lard	1	..
1	Ground Ginger	1	..
15	Demerara Sugar	8	7
2	Malt Vinegar	2	..
2	Baking Powder	2	..
3	Yeast	2	1
2	Paregoric	2	..
2	Lime Water	2	..
..	Quinine Wine ... ..	..	..
1	Sal. Volatile	1	..
..	Precipitated Sulphur ... ..	..	..
..	Diluted Acetic Acid ... ..	..	..
2	Tincture of Digitalis	2	..
2	Camphor, Spirits of	2	..
..	Iodi. Tinct. ... ..	..	..
2	Solution of Strychnine Hydrochloride	2	..
1	Tincture of Nux Vomica	1	..
1	Tincture of Iodine	1	..
3	Sweet Spirits of Nitre	3	..
2	Tincture of Gentian	2	..
2	Olive Oil	2	..
..	Juniper Oil ... ..	..	..
2	Cream of Tartar	1	1
1	Prescription ... ..	..	1
..	Sulphate of Quinine ... ..	..	..
6	Iron Pills	2	4
..	Milk Sulphur ... ..	..	..
2	Com. Tincture of Rhubarb	2	..
1	Tincture of the Perchloride of Iron ... ..	..	1
279	All Articles	236	43 = 15·4

MARGARINE ACT.

Samples.	Description.	Samples taken in contra-vention of Act.
5	Margarine	0

N.B.—Five samples of butter were also submitted to Dr. Teed by private purchasers, of which two were genuine and three adulterated.

SANITARY WORK.

FACTORY ACT—ADMINISTRATION OF.

Factories, Workshops, Laundries and Bakehouses, Inspection of.—Inspector West and Miss Gray made 2,106 inspections and visits to the factories, workshops and bakehouses in the district. The several inspections and visits of these inspectors were as follows:—

	Inspector West.		Miss Gray.		Total.
Factories and Workshops	- 915	...	708	...	1623
Homeworkers	- —	...	226	..	226
Bakehouses	- 63	...	—	...	63
Restaurants	- 194	...	—	...	194
Totals	- <u>1172</u>		<u>934</u>		<u>2106</u>

Bakehouses.—The Public Health Sub-Committee visited 119 Under-ground Bakehouses during the quarter, in company with the Medical Officer of Health and the Chief Inspector. In every instance a communication has been sent to the occupiers or owners advising them that before a certificate is granted by the Council in accordance with section 101 (2) of the "Factory and Workshop Act, 1901," certain specified alterations must be carried out in order to comply with the requirements necessary to render the premises suitable for the purpose.

INSPECTOR WEST'S REPORT.

TOWN HALL,

UPPER STREET, ISLINGTON, N.

To A. E. HARRIS, ESQ.,
Medical Officer of Health.

April 22nd, 1903.

SIR,

I have pleasure in submitting for your consideration a report of my work for the three months ending the 4th April, 1903, during which period you will observe I have visited 1,172 places of business, comprising factories, workshops, and work-rooms in the Borough, and reported upon various nuisances existing thereon; 531 inspections and 641 re-inspections were made, including visits to the following trades:—112 tailors, 190 shoemakers, 46 pianoforte makers, 31 cycle makers, 63 bakehouses, 194 restaurants, and 536 miscellaneous.

During the quarter, 90 notices have been served for the abatement of nuisances, 82 workshops have been limewhited, 7 additional w.c.'s have been provided (5 for males and 2 for females), also 108 other improvements have been carried out.

Outworkers.—In accordance with Section 107 of the Factory and Workshop Act, 1901, I have sent to the Medical Officers of Health of various Metropolitan Boroughs the names and addresses of 140 outworkers who live and work at home in their districts for tradespeople in this Borough.

I have reported to H.M. Inspector of Factories the addresses of three workshops in the Borough where young people under the age of 18 years were employed, as required by Section 27 of the Public Health Act, 1901.

Register.—At present there are 618 workshops with 909 work-rooms on the register. Thirty-five workshops containing 39 work-rooms have been added during the quarter.

I am, Sir,

Your Obedient Servant,

GEORGE WEST,
Inspector of Workshops, &c.

MISS GRAY'S REPORT.

THE TOWN HALL,

ISLINGTON, N.

April 22nd, 1903.

To A. E. HARRIS, ESQ.,

Medical Officer of Health.

SIR,

I have the honour of laying before you a report of my work for the first three months of the year 1903.

Register.—At the end of the quarter there were on the Register 1,089 workshops, work-places and laundries, in which females were employed, containing 1,828 work-rooms. Fifty-nine workshops, etc., were added to the Register during the quarter, while 39 workshops were removed from it. The addresses of 53 workshops, not previously visited by H.M. Inspector of Factories for the district, have been forwarded to him.

Inspections.—I have made 548 inspections during the quarter; 295 of these inspections were of the registered workshops, 226 were of the homes of female outworkers, and 27 were miscellaneous inspections. The premises inspected contained 713 work-rooms. I have also made 386 calls and re-inspections.

Cleanliness.—I found 22 work-rooms in a dirty condition. Eighteen of these were cleansed and whitewashed, and arrangements were made for the others to be done during the Easter holidays.

Overcrowding.—I found four work-rooms overcrowded; in these the overcrowding has been abated. I have distributed 77 cards, stating the cubic capacity of work-rooms and the number of persons who may be employed in each.

Sanitary Defects.—Besides the defects which I have mentioned, I have discovered and reported to you 28 defects, liable to be dealt with as "nuisances" under the Public Health Act. I have served seven intimation notices, and I have personally supervised the abatement of 12 nuisances.

Homeworkers.—During the quarter I have paid 286 visits to the homes of female outworkers, who were notified as living in Islington, and whom I had not previously visited. Sixty of these had removed or had given up work before I called on them. I inspected the homes of 226 workers. The addresses of 297 homeworkers who work for Islington employers in other districts have been forwarded to the Medical Officers of Health for those districts.

I am, Sir,

Your Obedient Servant,

JESSY M. S. GRAY,
Sanitary Inspector.

Houses Let in Lodgings—Inspection of.—The houses on the register, to which 53 were added during the quarter, number 586. They received 2,146 visits, which resulted in 337 improvements being effected in 170 houses.

	Inspector Jordan.	Inspector Ward.	Totals.
Houses on Register -	429 157	157 429	586
Houses Inspected -	318	42	360
Re-visits - - -	1,287	499	1,786
Premises Improved -	170	—	170
Improvements - -	337	—	337

District Inspection.—During the first quarter 1,470 houses were inspected by the District Inspectors, in which 3,503 improvements were effected. The subsequent visits for the purpose of inspecting work in the course of construction or for passing it when completed numbered 16,062.

Among the nuisances dealt with were the following :—

Dirty houses - - -	155	Defective Dustbins - -	135
Foul w.c.'s - - -	196	Defective Drains - -	372
Improperly constructed w.c.'s	258	Unventilated Drains -	154
Defective w.c.'s - -	154	Rain water pipes connected with drains - -	145
Insanitary yards - -	135		
Gullies inside houses -	106		

Mortuary and Coroner's Court.—During the first quarter 168 bodies were received into the mortuary, and 110 inquests were held.

PROSECUTIONS.—First Quarter, 1903.

	Successful.	Dismissed.	Withdrawn.	Total.
" Public Health (London) Act, 1891 " -	4	1	—	5
" Sale of Food and Drugs Acts " - -	26	3	—	29
" Margarine Act " - - - -	—	—	—	—
	30	4	—	34

TABLE I.

Deaths Registered in the Borough of Islington during Quarter ending
4th April, 1903.

Deaths of Non-Residents in Hospitals excluded. Deaths of Residents in Public Institutions are distributed.

Deaths in In-situations within Boro'	DISEASES.	AGES.													Under 5.	Over 5.	DISTRICTS.								Males.	Females.	Totals.
		0-	1-	5-	10	15-	20-	25-	35-	45-	55-	65-	75-	85-			Tuf.	U.H.	Toll.	L.H.	H	B.	S.E.				
	Small Pox																										
	(a) Vaccinated																										
	(b) Unvaccinated																										
	(c) No Statement																										
	Measles	7	28											35		3	1	1	2	9	12	7	23	12	35		
	Scarlet Fever	1	4	1	2			1						5	4	1	1	1	2	3	1	1	8	9			
	Typhus Fever																										
	Epidemic Influenza		1	1		1	1	3	3	7	7	4	2	1	29	4	4	2	1	6	5	8	16	14	30		
	Whooping Cough	43	44	1										87	1	5	13	18	14	11	17	10	40	48	88		
	Diphtheria	1	8	8	1		1	1						9	11	1	2	2	8	1	5	1	11	9	20		
	Enteric Fever				1	1	1		2	1	1				7				1	3	2	1	3	4	7		
	Asiatic Cholera																										
	Diarrhoea, Dysentery	6	3											9		3		2			1	3	5	4	9		
	Epidemic Enteritis		1											1							1	1	1	1	1		
	Other Allied Diseases																										
	Hydrophobia																										
	Glanders																										
	Tetanus																										
	Anthrax																										
	Cow Pox																										
	Syphilis	2	1					1						3	1		2		1			1	3	1	4		
	Gonorrhoea																										
	Phagedæna																										
	Erysipelas	2												2		1			1				2		2		
	Puerperal Fever					1	2								3	1	1		1				3	3	3		
	Pyæmia	1					1	1	1	1	1			1	4		1		2		1	1	3	2	5		
	Infective Endocarditis					1		1						2	2			1	1				2	2	2		
	Other Allied Diseases	1	1	*1										2	2	*2		1		1			4		4		
	Malarial Fever										1																
	Rheumatic Fever			1							1				2				1			1	2		2		
	Rheumatism of Heart					1			1	1					3				2			1	1	2	3		
	Tuberculosis of Brain	5	10	3		1								15	4		1		3	7	4	4	12	7	19		
	Tuberculosis of Larynx						1								1							1	1		1		
	Phthisis	5	6	1	1	2	4	21	29	19	15	4	1	11	97	8	11	13	15	15	15	31	57	51	108		
	Abdominal Tuberculosis	4	5											9		1	2	2		1		3	4	5	9		
	General Tuberculosis		2	2						1				2	3		1	1	1	1		1	3	2	5		
	Other forms Tuberculosis			1											1							1	1		1		
	Other Infective Diseases																										
	Thrush	1												1								1	1		1		
	Actinomycosis																										
	Hydatid Diseases																										
	Scurvy																										
	Other Diseases due to Altered Food																										
	Acute Alcoholism						1								1							1		1	1		
	Chronic Alcoholism							1	3	3	1				8	2	1	1		2		2	5	3	8		
	Chronic Industrial Poisonings																										
	Other Chronic Poisonings																										
	Osteo-arthritis							1	1	1			1	4					1	1	1	1	1	3	4		
	Gout													1									1		1		
	Cancer			2	1		1	2	17	22	22	17	6	90	6	9	10	7	19	16	23	38	52	90			
	Diabetes Mellitus									1	2			3		1			1		1	1	2	3			
	Purpura Hæmorrhagica																										
	Hæmophilia																										
	Anæmia								1	1				2		1	1					1	1	2			
	Lymphadenoma																										
	Premature Birth	54												54		3	4	5	8	12	5	17	24	30	54		
	Injury at Birth																										
	Debility at Birth	9												9		1	1		2	1	1	3	8	1	9		
	Atelectasis	5												5							1	2	3	2	5		
	Congenital Defects	5	1											6			2					4	5	1	6		
	Want of Breast Milk																										
	Atrophy, Debility, Marasmus	32	5											37		5	9	1	3	6	4	9	21	16	37		

* 1, Continued Fever.

TABLE I.—Continued.

Deaths in Institutions within Boro.	DISEASES.	AGES.													DISTRICTS.							Males.	Females.	Totals.			
		0-	1-	5-	10-	15-	20-	25-	35-	45-	55-	65-	75-	85-	Under 5.	Over 5.	Tuf.	U.H.	Toll.	L.H.	H.				B.	S.E.	
	Dentition	6	4											10		1	1	4	2	1	1	1	1	6	4	10	
	Rickets	1	3											4		4	5	4	5	9	7	2	1	2	2	4	
	Old Age, Senile Decay												8	22	12	4	5	1	3	1	1	1	8	23	6	42	
	Convulsions	18	1											19		1	5	1	3	1	1	2	15	2	1	19	
	Meningitis	3	2	2										5		1	1	1	1	2	2	2	7	2	1	9	
	Encephalitis				1											1	1	3	2	5	3	3	8	11	1	19	
	Apoplexy								4	2	8	5				19	1	2	2	5	3	3	8	11	1	3	
	Softening of Brain									1	1	2				3		1	1	2	2	3	2	1	1	9	
	Hemiplegia									1	5	3				9		2	2	2	2	3	3	1	1	9	
	General Paralysis of the Insane						3	2	2	2						7	1	1	1	1	1	2	5	2	7	7	
	Other forms of Insanity						1	1	1		3	1				7	1	3	1			2	1	6	7	7	
	Chorea																										
	Cerebral Tumour		1						1							1	1	1					2			2	
	Epilepsy																										
	Laryngismus Stridulus																										
	Locomotor Ataxy								1	1						2			1	1						2	
	Paraplegia									3	5	6				14		1	3	2	4	4	6	8	14	14	
	Other forms, Brain Diseases	1			1	1	1			1	1					1	5		1	1	1	3	2	2	4	6	
	Otitis	4			1		1									4	2		3	2	1				4	6	
	Disease of Nose, Epistaxis	1														1			1				1		1	1	
	Disease of Eye	1														1				1					1	1	
	Pericarditis																					2		1	2	3	
1	Endocarditis			1			1									3	1						1	2	3	3	
	Hypertrophy of Heart																					1	1	1	1	1	
	Angina Pectoris										1					1						1	1	3	1	4	
1	Aneurism				1				1	1	1					4		1			2	1	3	1	4	1	
1	Senile Gangrene											1				1					1		1	1	1	1	
2	Embolism, Thrombosis						1		1	2		1	1			6		1	2	2	1		3	3	6	6	
	Phlebitis															1						1			1	1	
	Varicose Veins															1						1			1	1	
36	Other Diseases, Heart and Vessels	1	2		2	4	2	4	11	17	30	28	23	7	3	128	10	12	10	15	22	33	29	51	80	131	
	Laryngitis		2								1					2	1	1		2			2	1	1	3	
	Croup		1													1						1	1	1	1	1	
	Other Diseases, Larynx and Trachea	1														1				1					1	1	
8	Acute Bronchitis	26	19				1	3	1	4	12	7	1	45	29	9	10	4	9	11	11	20	36	38	74		
25	Chronic Bronchitis		2	1			1	1	4	15	20	31	26	9	2	108	5	4	12	13	19	24	33	41	69	110	
	Lobar Pneumonia				1		1				1					4		1			2	1	2	2	4	4	
	Lobular Pneumonia																										
7	Pneumonia	30	34				2	4	6	2	11	8	6	5	64	44	7	13	17	13	7	21	30	58	50	108	
	Empysema, Asthma										1					1		1							1	1	
2	Pleurisy					1				1		2				4		2		2			3	1	4	4	
3	Other Diseases, Respiratory System			1		1			1		1		1			5	1		1	1	1	1	3	2	5	2	
	Diseases of Mouth and Annexa			2												2			1				1	1	1	2	
	Diseases of Pharynx	2																1	1				1	1	1	2	
	Diseases of Oesophagus																										
	Ulcer of Stomach and Duodenum				1		1	2	3	1						8	1		1	1	1	1	3	2	6	8	
	Other Diseases of Stomach	6									1	1	1			6	3	4	1		3	1	5	4	9	9	
	Enteritis	14	3			1										17	2	1	1	2	4	4	3	11	8	19	
	Appendicitis			1	1	2	1									5	1			1	1	2	4	1	5	5	
	Obstruction of Intestine	5									1	1				5	2		2	3	1	1	4	3	7	7	
	Other Diseases of Intestine								1	1	1					3			1	1	1				2	3	
	Cirrhosis of Liver						1				1		1			3			1	1	1	1	2	1	3	3	
	Other Diseases of Liver										1		1			3		1			1	1	2	1	3	3	
	Peritonitis	1					2									1	2		1			2	1	2	3	3	
	Other Diseases, Digestive System																										
	Diseases, Lymphatic System and Glands	1								1	1	2				1	4				2	1	2	1	4	5	
	Acute Nephritis			2				1	1							4	1			3			4	1	4	5	
	Bright's Disease						3	1	3	5	5	5				22	1	3	2	5	5	3	3	14	8	22	
	Calculus																										
	Diseases of Bladder and Prostate										1	3	2			6			1	1	1	2	1	6		6	
	Other Diseases, Urinary System		1							1	1	1	2			1	5	2			2	1	2	4	6	6	
	Diseases of Testis and Penis															2			1	1					2	2	
	Diseases of Ovaries																										
	Diseases of Uterus and Appendages							1	1		1					3				1	1		1		3	3	
	Diseases of Vagina and External Genitals																										
	Diseases of Breast																										
	Abortion, Miscarriage																										
	Puerperal Mania																										
	Puerperal Convulsions																										
	Placenta Prævia, Flooding						1									1						1		1	1	1	

TABLE II.

Showing the **Births, Deaths, Infantile Mortality, the Deaths from the Zymotic Diseases, and from Influenza, Cancer, Phthisis and Puerperal Fever during the First Quarters, 1893—1903.**

Years.	Births.	Birth-rates.	Deaths.	Death-rate.	Deaths of Infants under 1 year of age.		Deaths under 1 year to 1,000 Births.		Deaths from the Principal Zymotic Diseases.													Total Zymotic Death-rate.	Influenza.		Cancer.		Phthisis.		Puerperal Fever.	
									Totals.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Typhus Fever.	Enteric Fever.	Simple and un-defined Fevers.	Diarrhoeal Diseases.	Deaths.	Death-rates.	Deaths.		Death-rates.	Deaths.	Death-rates.	Deaths.	Deaths in 1,000 births.			
1893	2,492	30.48	1,597	19.53	403	161	134	..	25	24	32	32	..	9	..	12	1.64	31	0.37	58	0.71	123	1.50	2	0.80					
1894	2,490	30.14	1,613	19.52	313	125	231	..	66	16	64	70	..	8	..	7	2.79	31	0.37	45	0.54	146	1.77	5	2.01					
1895	2,618	31.35	1,936	23.18	353	134	106	..	7	21	25	35	1	9	1	7	1.27	137	1.64	65	0.78	191	2.29	3	1.14					
1896	2,467	29.22	1,664	19.71	373	151	330	..	170	10	56	76	..	13	2	3	3.91	13	0.15	58	0.68	126	1.49	1	0.40					
1897	2,570	30.48	1,421	16.85	296	115	122	..	15	18	40	38	..	7	..	4	1.45	14	0.16	66	0.78	142	1.68	3	1.16					
1898	2,401	28.52	1,774	20.71	362	151	308	..	183	10	41	58	..	4	1	11	3.66	41	0.48	65	0.77	133	1.58	3	1.25					
1899	2,493	29.65	1,681	19.99	308	123	131	..	45	3	12	61	..	9	..	1	1.56	52	0.61	58	0.69	165	1.96	2	0.80					
1900	2,475	29.47	1,819	21.66	326	132	132	..	64	7	25	23	..	9	..	4	1.57	122	1.45	64	0.76	185	2.20	0	..					
1901	2,453	29.26	1,411	16.83	304	124	82	..	7	1	17	41	..	8	1	7	0.96	18	0.21	74	0.88	152	1.81	4	1.63					
1902	2,378	28.20	1,796	21.30	311	131	181	16	53	15	48	36	..	9	1	3	2.14	45	0.53	92	1.09	153	1.81	2	0.73					
Corrected Average.	2,516	29.68	1,690	19.93	339	135	178	2	64	12	37	48	..	8	1	6	2.13	51	0.59	65	0.76	153	1.80	2	0.79					
1903	2,264	26.70	1,383	16.31	329	145	170	..	35	9	20	88	..	7	1	10	2.00	30	0.35	90	1.06	108	1.27	3	1.32					
Departure from Average.	-252	-2.98	-307	-3.62	-10	+10	-8	-2	-29	-3	-17	+40	..	-1	..	+4	-0.13	-21	-0.24	+25	+0.30	-45	-0.53	+1	+0.53					

I am, Gentlemen,
Your obedient servant,

W. Edwards
Medical Officer of Health.

