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County

Borough of



Middlesbrough.

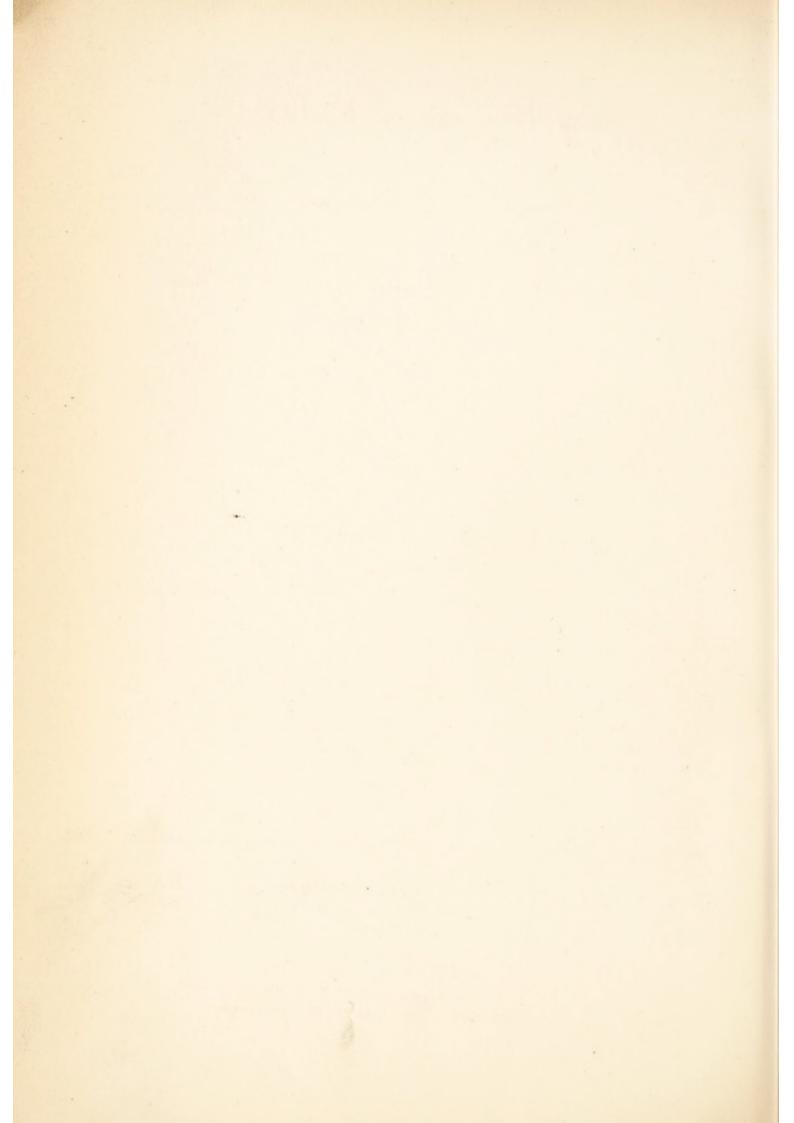
HEALTH DEPARTMENT.

## ANNUAL REPORTS

AND

Vital and Mortality
Statistics
for the Year 1909.

Middlesbrough : JORDISON & Co., Ltd., Printers, &c.



### County Borough of Middlesbrough.

### Members of the Sanitary Committee, 1910.

Chairman-Alderman Sir Samuel A. Sadler.

Vice-Chairman-Alderman A. Mattison.

HIS WORSHIP THE MAYOR (COUNCILLOR T. G. POOLE).

ALDERMAN W. J. BRUCE, J.P.

T. R. DENT.

J. Forbes.

COUNCILLOR G. CAREY.

E. Cone.

,, J. Robinson.

" M. Roddy.

W. T. THOMSON.

, E. TURNER.

.. W. J. Phillips

### Members of the Sanatorium Committee, 1910.

Chairman—Alderman J. McLauchlan, J.P.

HIS WORSHIP THE MAYOR (COUNCILLOR T. G. POOLE).

ALDERMAN J. FORBES.

,, J. Hedley, M.D.

COUNCILLOR J. BAINES.

J. Crombie.

J. Dawson.

.. A. Jowett.

.. J. McCreton.

.. W. J. Phillips

J. REVELEY.

S. Sadler, J.P.

### Hemlington Consumption Hospital—Committee of Management and Staff, 1909.

Chairman—Alderman J. McLauchlan, J.P.

HIS WORSHIP THE MAYOR (COUNCILLOR T. G. POOLE).

ALDERMAN J. FORBES.

., J. Hedley, M.D.

COUNCILLOR T. B. DAVIES.

Nurse-in-Charge-Miss J. Syme.

Assistant Nurse-Miss M. Charlton.

### OFFICIALS.

Medical Officer of Health and Superintendent of Fever Hospitals:
C. V. DINGLE, M.D., B.Hy., D.P.H.

Assistant Medical Officer of Health and Medical Inspector to the Education Committee:
R. J. EWART, M.D., F.R.C.S., D.P.H.

Chief Sanitary Inspector:
G. H. ANDERSON, Mem. R. San. Inst., Fel. S. I. Assoc.

Matron of Fever Hospitals: MISS M. WEBB.

### Assistant Sanitary Inspectors:

T. McDONALD. H. WATSON, C.R.S.I.

A. W. LUCAS, C.R.S.I. T. P. DIXON, C.R.S.I.

G. F. BULMER, C.R.S.I. J. A. DODSWORTH (Probationary Insp.)

Health Visitors:

Mrs. L. YOUNG, C.R.S.I. Miss M. A. BLAKE, C.R.S.I.

School Nurses:

MISS G. THOMAS, C.R.S.I. MISS E. M. WATSON.

Clerks:

J. W. RAWDON, T. A. BATTY, J. E. BLOODSWORTH.

Foreman Inspector of Scavengers:
G. STEVENSON.

## Borough of Middlesbrough, 1909.

Area of Municipal Boro	ugh							2,8	324 Acres
Number of Houses									22,171
Length of Public Street	s								55 Miles
Rateable Value									£398,618
Population (estimated to	middle	e of	1909)						105,255
Death Rate for 1909								19.41	per 1,000
Birth Rate for 1909			• •					31.95	per 1,000
Zymotic Death Rate								2.3	per 1,000
Infantile Deaths per 1,0	00 Birt	hs							159
					NO		ID 14/		
MORTALITY	STA	TIST	ICS F	UK E	NGLAN	) AI	ND W	ALES	
MORTALITY	STA	TIST	ICS F	OK E	NGLANI	) AI		OS	1909
MORTALITY Death Rate per 1,000	/ STA		ICS F	E	NGLANI		19		
							19 14	08	1909
Death Rate per 1,000							19 14 26	08 1.7	1909 14.5
Death Rate per 1,000 Birth Rate per 1,000	  r 1,000						19 14 26 1.	08 1.7 3.5	1909 14.5 25.6
Death Rate per 1,000 Birth Rate per 1,000 Zymotic Death Rate per	  r 1,000						19 14 26 1.	08 1.7 3.5 29	1909 14.5 25.6 1.12
Death Rate per 1,000 Birth Rate per 1,000 Zymotic Death Rate per Infantile Mortality Rate	 r 1,000						19 14 26 1.	08 1.7 3.5 29 21	1909 14.5 25.6 1.12
Death Rate per 1,000 Birth Rate per 1,000 Zymotic Death Rate per	  r 1,000						19 14 26 1.	08 1.7 3.5 29	1909 14.5 25.6 1.12
Death Rate per 1,000 Birth Rate per 1,000 Zymotic Death Rate per Infantile Mortality Rate	 r 1,000						19 14 26 1.	08 1.7 3.5 29 21	1909 14.5 25.6 1.12
Death Rate per 1,000 Birth Rate per 1,000 Zymotic Death Rate per Infantile Mortality Rate RATES FOR	 r 1,000 		LARG	EST	  TOWNS	  DUF	19 14 26 1. 1	08 1.7 3.5 29 21	1909 14.5 25.6 1.12 109
Death Rate per 1,000 Birth Rate per 1,000 Zymotic Death Rate per Infantile Mortality Rate  RATES FOR  Death Rate per 1,000	 r 1,000  THE	   76	LARG	EST .	  TOWNS	  DUF	19 14 26 1. 1	08 1.7 3.5 29 21 1909.	1909 14.5 25.6 1.12 109

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# Annual Report of the Medical Officer of Health for the Year 1909.

### To the Chairman and Members of the Sanitary Committee.

Gentlemen,

I have the honour to present for your consideration my Twelfth Annual Report upon the health of the Borough of Middlesbrough during the year ending December 31st, 1909.

During the year 1909 the death rate in England and Wales was 14.5 per 1,000 of the population, this being the lowest on record, and for the same period the death rate in this Borough was 19.4 per 1,000, being the lowest rate recorded since the year 1897.

The birth rate in the country has steadily declined since the year 1876, the rate for England and Wales last year being 25.6 per 1,000, a decrease of .9 per 1,000. In Middlesbrough, the birth rate for last year was 31.9 per 1,000, this being the lowest rate since the year 1896, and being 4.1 per 1,000 below the rate of the previous year.

It is owing to this decrease in the number of births, there being 370 less registered during 1909, that the mortality rates during the past year have shown an improvement, the average Infantile Mortality in this Borough being 177 per 1,000 births.

One of the reasons for a lower birth rate, both in the country as a whole and also to a slight extent in this town is that there has been a decrease in the marriage rate. The Registrar General of Births, Deaths and Marriages points out in his Annual Report that the age at marriage has an important bearing upon the subject, and that during recent years the mean age at marriage has steadily increased.

The past year has been notable for the number of New Acts and Regulations dealing with Health and Sanitation, which have either come, or are about to come in operation. The following being the most important of these, viz.:—

The Housing and Town Planning Act of 1909.

The Public Health (Tuberculosis) Regulations of 1908.

The Tuberculosis Order of 1909, and

The Children's Act of 1908.

In addition to the foregoing, great sanitary progress has been made locally by the adoption of the greater part of the Public Health Acts Amendment Act of 1907, by the insertion of many important Clauses dealing with the health and sanitation of the town in the proposed Middlesbrough Corporation Bill of 1910, and by the decision to provide a Public Cleansing Station.

The Housing and Town Planning Act.—The most important Clauses of this Act are those dealing with houses unfit for habitation or out of repair. The Local Authority is given power to prohibit the use of any dwelling-house which appears to be unfit for human habitation. Formerly this could only be done after obtaining a Magistrates' Order. Landlords are required to keep all houses reasonably fit for habitation, and the Local Authority may serve a Notice on them to execute such works as are considered to be necessary, any appeal against the above Orders must now be made to the Local Government Board. It shall not be lawful to erect back-to-back houses intended to be used as dwellings.

Town Planning is also largely a Public Health matter, and the Act gives Local Authorities power to prepare a scheme for the laying out of land for building purposes, with the object of securing proper sanitary conditions.

Causes of Death.—Reviewing those chief causes of death which usually show some considerable variation from year to year, we find that during the year 1909 there has been a decrease in deaths due to Zymotic Diseases, especially Diarrhœa, and an increase of deaths due to diseases of the Respiratory System, these causes, together with the mortality rate of Infants under one year of age per 1,000 births, are the main factors which regulate the rise and fall of the death rates in this Borough.

The decrease in Zymotic Diarrhœa, and the increase of Bronchitis and Pneumonia during the past year have, to a great extent, been due to the same cause, namely, the meteorological conditions experienced. In the records for a long series of years it is found that the rates of mortality are subject to wide fluctuations, and these are most marked in the third quarter of the year when Epidemic Diarrhœa among infants becomes most prevalent, an excessive rise in the Infantile Mortality rate in the third quarter corresponds with high summer temperature, especially if accompanied by deficient rainfall. The effects of temperature and rainfall must be considered together, frequent rain throughout the summer has an undoubted effect in checking the Infantile Diarrhœa death rate, whereas a cold, damp spring and autumn increase the mortality from Respiratory Diseases.

The only Zymotic Disease which showed an increase during the past year was Whooping Cough, and the high mortality from this disease can be attributed to exposure of infected children to unfavourable climatic conditions in the early stages of the disease.

Diphtheria decreased very considerably in its attack rate, but the mortality rate shows an increase. Many of the deaths from Diphtheria are due to delay in seeking medical treatment, parents too often suppose that the child is only suffering from a sore throat and do not obtain proper medical treatment until a fatal dose of the Diphtheritic Toxine has been absorbed into the system. The Corporation still continues to supply Antitoxine, free of charge, to those who are unable to obtain it, but this treatment will not save the life of the child if there has been undue delay.

Phthisis and Tubercular Diseases.—These caused an equal number of deaths during the past two years and are not on the increase, the death rate being 1.1 per 1,000 of the population from Phthisis, equal to the rate for the whole country and rather less than the rate in the Urban Counties.

The Public Health (Tuberculosis) Regulations, 1908, came into force on January 1st, 1909.

This Order directs that the Medical Officer of a Poor Law Institution, and also a District Medical Officer, shall within 48 hours after his first recognition of the symptoms of Pulmonary Tuberculosis post to the Medical Officer of Health a notification of the case. Notice of change of address of persons suffering from Pulmonary Tuberculosis is also to be given by Relieving Officers and Superintendents of Poor Law Institutions. By this order it is anticipated that all poor persons suffering from this disease will be kept under supervision, and that as many precautions as are possible will be taken to prevent the spread of the disease.

An attempt has been made by the means of printed instructions and personal visits to educate those suffering from Pulmonary Phthisis in the best methods of preserving their health and also that of those among whom they reside, proper appliances have also been provided for their use. So far, the results have been far from satisfactory, one of the greatest obstacles met with being the difficulty of finding the person notified at home when visited. There is also a constant change of address taking place, both from house to house and from house to the Union Infirmary and back again. Those affected appear to take very little interest in what is being done for them, and during the past year not a single application has been made for the renewal of the special spitting cups, handkerchiefs and disinfectants supplied free of any charge. It is found impossible to get anything like isolation of the infected persons in their homes, even to the extent of sleeping alone, and after removal or death it is not possible to effectively disinfect the house without temporarily removing If any permanent good is to be done by the notification the whole family. of Poor Law cases of Pulmonary Phthisis it will be necessary that isolation in the Union Infirmary or some other suitable Institution shall be compulsory. For the

second year in succession cases of Pulmonary Phthisis have been treated during the summer months in part of the Corporation Small-pox Hospital at Hemlington. Altogether 30 men received treatment. The improvement in these cases was not, on the whole, so satisfactory as that made by the cases the year before, still there can be no doubt that great benefit resulted both educationally and from the fact that such a large amount of infective sputum was banished from the town and destroyed. A full account of these cases will be found in an Appendix to this Report.

The Tuberculosis Order of 1909 which comes into operation on April 1st next, deals with this disease in animals, and more especially with dairy cows; it enacts that every person having in his possession or under his charge (1) any cow which is, or appears to be suffering from Tuberculosis of the udder, indurated udder or other chronic disease of the udder, or (2) any bovine animal which is or appears to be emaciated from Tuberculosis, shall, without avoidable delay, give information of the fact to a Constable of the Police Force for the area wherein the animal is, or to an Inspector of the Local Authority, and the Constable or Inspector shall transmit the information to the Local Authority, who, if not the Sanitary Authority, shall inform that Authority.

The Local Authority shall cause a Veterinary examination of such animals, and where satisfied by report that there is such an animal in their district, they shall give notice in writing to the owner or person in charge of the animal and cause the animal to be slaughtered.

Before the slaughter of an animal, the Local Authority shall either agree in writing with the owner of the animal the value thereof in its condition at the time of valuation, or if they shall fail so to agree shall cause such value to be ascertained by a valuer appointed by them. The compensation paid by the Local Authority to the owner varies from one-quarter to the whole of the sum arrived at as the value of the animal, according to the amount of disease found. Other sections of the Order deal with the isolation of suspected animals, cleansing and disinfection of premises, and precautions to be adopted with respect to milk from diseased animals.

This Order is of far-reaching importance, since it protects two of the chief food supplies, namely, Milk and Meat, and if carried out strictly it should result in the abolition from this country of tubercular infected animals. It will also simplify the duties of meat inspection, since tubercular animals will be examined before they are slaughtered, and, consequently, before any special dressing of the meat, with a view to hiding its diseased condition, can be made. Rural districts, especially those in which there are large dairy farms, will find the expense of compensation heavy until the diseased animals are weeded out. The expense will not fall heavily upon Urban districts.

The Children's Act of 1908 came into force on April 1st, 1909. By Section 122 of this Act the Local Education Authority may direct their Medical Officer to examine in any Public Elementary School the person and clothing of any child, and if found infected with vermin or in a foul or filthy condition may give notice to the parent or guardian to properly cleanse the person and clothing of the child within 24 hours. If this notice is not complied with, the Medical Officer may remove the child referred to and cause the person and clothing to be properly cleansed in suitable premises.

In order to carry out the provisions of this Act it is necessary to provide suitable premises, and the Sanitary Authority of this town have decided to provide a Public Cleansing Station for this purpose. This decision has been taken because it has been found, by experience, that it is impossible to properly cleanse such children without baths and disinfecting apparatus. The number of verminous children attending the Public Elementary Schools is far beyond anything anticipated, and they are a danger to the cleanliness of the other children.

The adoption by the Corporation during the past year of the greater part of the Public Health Acts Amendment Act of 1907 adds greatly to its power of dealing with the system of sanitary accommodation prevalent in this town. The Act gives the Local Authority power to order that all new property shall be provided with the Water Carriage System, and to order the gradual abolition of the old Pans and Middens. These powers have been adopted, and arrangements have been made for the conversion of a small area from the old to the new system. There can be no doubt that the adoption of the Water Carriage System will be one of the most beneficial changes in the sanitary history of the town, but the scheme will be a gradual one, as it will entail increased capacity of the main sewers before being carried out in its entirety.

The Midwives' Act, 1902.—By Section I. (B.) of this Act, on and after April 1st, 1910, no woman shall habitually and for gain attend women in child birth, otherwise than under the direction of a qualified Medical Practitioner, unless certified under the Act. Should any woman do so she is liable to a fine not exceeding £10.

There is, however, a proviso that this Section shall not apply to anyone rendering assistance in a case of emergency. As there are in Middlesbrough only 18 Certified Midwives and it is known that there are more than twice that number of uncertified women acting as Midwives, there will, after April next, probably be a want of properly trained and qualified Midwives in the town. During the past year 932 confinements were attended by registered and certified Midwives, and 736 by unregistered Midwives, being 47.8 per cent. of the total births notified.

Food and Drugs Act.—The question of the prevention of the adulteration of foods is one of increasing difficulty. Year by year the Inspectors of the Local Government Board urge the taking of increased numbers of Samples, and still the Local Authorities are waiting for more definite instructions as to what are to be considered standards of purity.

During the year 1908, 115 Samples of Milk were submitted for analysis, of which 72 were returned as genuine and 43 as adulterated, i.e., 40 were returned as having a certain percentage of Fats extracted, and 3 as having water added. During the past year, of 116 Samples analysed, 38 were returned as having Fats extracted.

In 1901, the Board of Agriculture issued Regulations giving a standard of purity for Milk, both as regards the quantity of Fat and also of Solids which should constitute a genuine Milk, namely, 3 per cent. of Milk Fat and 8.5 per cent. of Milk Solids. In the same Regulations it is suggested that although the quality of genuine Milk offered for sale will usually be well above the official limits of Milk Fat and non-fatty Solids, there may occasionally and especially in certain seasons of the year be cases in which a Sample of genuine Milk may fall below those limits. In such cases it is suggested that the Local Authority might in the first instance call the vendor's attention to the Analyst's report and ask him to offer an explanation, and if the explanation is one they are able to accept, they might in the exercise of their discretion refrain from the institution of proceedings.

The results of these Regulations have been most detrimental to the maintenance of a good milk supply. Of the total Samples submitted for analysis here, it is found that at least 33 per cent. are returned as deficient in Milk Fats, this being evidently a number far in excess of the occasional case anticipated by the Order of 1901, and none of these cases were proceeded against in Court as being below the official standard of purity, owing to the fact that it has become the practice of the Magistrates to accept the plea that such Milk may be the genuine product of the cow, as suggested in the Order of the Board of Agriculture. In one such case in this district proceedings were taken against the seller of milk deficient in milk fat, and a fine was inflicted which, on the appeal of the farmer, was remitted by the Home Secretary. Either it is absurd to fix a standard of purity which in a large number of cases it is found impossible to maintain, or having fixed a standard not to adhere to it.

No consideration so far has been given to the fact that the keeper of dairy cows is in the majority of cases responsible for the production by them of Milk deficient in Fats, and it should be considered to be just as great an offence for him to sell Milk of an inferior quality as it is to sell Milk which is adulterated—defects in feeding, the inferior quality and age of the herd, and the want of knowledge and skill in the management of the herd in such duties as the calving of the cows at proper intervals,

are all matters which can influence the quality of the Milk produced. At present it seems to be the aim of the dairy farmer to have a herd of cows which will produce a large quantity of milk of an inferior quality, instead of a normal quantity of a quality equal to the standard set up by the Board of Agriculture.

The addition of preservatives to foods is also a matter requiring to be dealt with in a more conclusive manner. Recently, samples of Sausages were taken in this Borough which were found to contain over 23 grains of Boric Acid per lb. From various sources, including reports of proceedings taken in Court and also from reports of Inspectors of the Local Government Board, it would appear that the difference of opinion as to what constitutes a harmful amount of Boric Acid varies between 1 or 2 grains to 35 grains per lb.

**Population.**—At the Census of 1901 the population of the County Borough of Middlesbrough was returned as 91,317, and for the middle of the year 1909 the Registrar General's estimate of the population was 105,255.

The estimated population of the three districts into which the town is divided being:—

**Deaths.**—During the year 1909 there were 2,068 deaths registered in the Borough. Of these, 84 were deaths of Non-Residents, and there were 59 deaths of Residents which occurred in Public Institutions outside the Borough, making the total deaths for the year 2,043, equivalent to a death rate of 19.41 per 1,000 of the population.

The death rates in the districts into which the town is divided for statistical purposes being as follows:—

North of the Railway .. 28.16 per 1,000. West of Linthorpe Road 19.03 ,, East of Linthorpe Road 16.08 ,,

The death rate in the Borough in 1908 was 19.95 per 1,000, and the rates in the districts:—

North of the Railway . . 28.17 per 1,000. West of Linthorpe Road 20.55 ,, East of Linthorpe Road 15.22 ,,

The death rate for that part of the town which is South of the Railway and which has an estimated population of 90,057, was 17.93 per 1,000 during 1909, being a decrease of .62 per 1,000 of the population.

The number and percentage of deaths, at the various age periods, to the total deaths during 1909 being:—

537 or 26.2 per cent. under 1 year of age.

396 or 19.3 per cent. over 1 year and under 5 years.

67 or 3.3 per cent. over 5 and under 15 years.

84 or 4.1 per cent. over 15 and under 25 years.

656 or 32.3 per cent. over 25 and under 65 years.

303 or 14.8 per cent. over 65 years of age.

46.1 per cent. of the total deaths being under 5 years of age.

**Births.**—During the year 1909 there were 3,363 births registered as having occurred in the Borough, representing a birth rate of 31.95 per 1,000 of the population, compared with the births in the previous year this represents a decrease of 370, equal to a rate of 4.1 per 1,000 of the population.

1,736 of the births were those of male children, and 1,627 were female children, being an excess of 109 males. The natural increase, i.e., the excess of births over deaths during the year being 1,320, a decrease of 347 on the previous year's natural increase.

**Zymotic Diseases.**—There were 250 deaths registered as having occurred from the principal infectious diseases, of which 6 were deaths of persons non-resident and brought into the Borough for treatment at the various hospitals, the remaining 244 deaths being 86 less than in the previous year, and representing a Zymotic death rate of 2.3 per 1,000 of the population.

The Zymotic death rate in England and Wales during the same period being 1.1 per 1,000.

Small-Pox.—It is now five years since there has been a case of Small-Pox in the Borough.

Scarlet Fever.—There were 105 cases notified, of which 2 died, being equal to a death rate of .01 per 1,000 of the population.

During the past two or three years Middlesbrough has been remarkably free from Scarlet Fever, and the death rate for the past year from this disease is the lowest on record. 83, or 79 per cent., of the cases notified were removed to the Isolation Hospital for treatment.

Enteric and Continued Fever.—69 cases of Enteric Fever and 2 of Continued Fever were notified, of which 16 cases of Enteric Fever were fatal, the mortality rate being .15 per 1,000 of the population, this being a slightly lower rate than that of the previous year. The attack rate equals .65 per 1,000 of the population, and is also slightly less.

69 per cent. of the cases were removed to the Isolation Hospital for treatment, a large proportion of the cases remaining at home were too ill for removal.

Enteric Fever continues to show a steady decrease in both its attack and mortality rates, but the mortality is still considerably above the average of other large towns.

The ages of the 69 cases were as follows:-

1	year and u	ınder 5	ars	 	6	
5	years and	under	10	years	 	11
10	,,	,,	15	years	 	8
15	,,	,,	25	years	 	12
25	.,	,,	65	years	 	32

44 were males and 25 females.

The cases were spread over the whole town, the St. Hilda's, Vulcan and Ayresome Wards having the largest proportion of cases.

51 houses in 46 streets were infected, 5 streets have two infected houses each.

The number of cases per house being as follows :-

1 house had 5 cases.
2 houses ,, 4 cases each.
2 ,, ,, 3 ,,
4 ,, ,, 2 ,,
42 ,, ,, 1 case.

The five cases occurring in the one house were all removed to Hospital, the first case being notified on March 3rd and the last on March 29th, all the cases having contracted the disease at the time the first notification was received.

The same applies to one of the houses in which there were 4 cases, in the other of these, two of the cases were notified some months after the first two.

With the exception of two girls, who stated they had recently eaten Whelks, I have been unable to trace any of the cases to the eating of contaminated shell-fish.

Many of the cases occurred in homes in which there was great poverty and lack of sufficient and proper food. There is also evidence that the number of notifications of Enteric Fever is not always a correct guide to the extent of the disease in the town, many cases which are of a doubtful character are removed to the Isolation Hospital, and after being kept under observation for a period are found to be suffering from other diseases. During the past year this has been especially so, several of the patients

being removed from the Isolation Hospital to the Infirmary for operation, whilst others have proved to be attacks of Pneumonia, which disease in Middlesbrough very often closely resembles Enteric Fever in its early stages.

**Diphtheria and Membranous Croup.**—There were 97 cases notified, of which 22 were fatal, this being a decrease of 72 cases and 8 deaths.

56, or 57.7 per cent. were removed to the Isolation Hospital for treatment.

The rate of mortality from this disease being .20 per 1,000 of the population and 22.6 per cent. of the cases.

Measles.—This disease which had been very prevalent during the previous year showed a very considerable diminution during the second half of the past year, the number of deaths having decreased by 38, this is probably accounted for by the fact that a large number of the children had already had the disease.

Whooping Cough.—A severe epidemic of Whooping Cough causing 69 deaths was experienced throughout the year, being at its severest in the summer months, nearly all the fatal cases being under 5 years of age—the mortality from this disease being .65 per 1,000 of the population.

**Diarrhæa.**—Zymotic Enteritis or Summer Diarrhæa was not so fatal as during the previous year, there being 97 less deaths recorded. With one exception, these were all deaths of children under 5 years of age, the greatest number occurred in the district West of Linthorpe Road.

Tubercular Diseases.—These include Phthisis (Pulmonary Tuberculosis) and various other forms of Tubercular Disease. During the past year there were 126 deaths from Pulmonary Tuberculosis and 71 from other Tubercular Diseases.

The death rate from Phthisis being 1.1 per 1,000 of the population, and the deaths from all Tubercular Diseases being 9.6 per cent. of the total deaths in the year under notice. In the previous year Tuberculosis was responsible for 10.8 per cent. of the mortality from all causes in this country. During the past 50 years the Tuberculosis death rate has decreased by one-half.

Since the Public Health (Tuberculosis) Regulations, 1908, came into force there have been 120 notifications of Pulmonary Tuberculosis received from the District and Poor Law Medical Officers, 73 of which were poor persons resident at the time of notification in the Union Hospital, and 47 resident in the town. 90 were males and 30 were females.

Of the 47 residing at home at the time of notification, 9 subsequently entered the Union Hospital; nine of the 73 notified from the Union Hospital subsequently returned home, and of those who left the Union Hospital, 6 again re-entered it.

49 of the 120 cases of Pulmonary Tuberculosis notified have died, this being 40.8 per cent. of the total cases. 37.7 per cent. of the males notified have died, and 50 per cent. of the females. 38 of the fatal cases occurred in the Union Hospital and 11 at the patients' homes. At the end of the year there were 44 notified cases in the Union Hospital and 27 resident in the town.

Respiratory Diseases.—There has been an increased death rate from these causes during the past year, the total deaths from diseases of the Respiratory System being 551, equal to 26.9 per cent. of the total deaths. 132 of these deaths were due to Bronchitis and 399 to Pneumonia, being an increase of 24 and 44 respectively as compared with those of the previous year.

Infantile Mortality.—During the year 1909 there were 543 deaths registered of Infants under one year of age, nine of these were deaths of non-residents, and there were 3 deaths of Infants belonging to the Borough which occurred in the North Ormesby Hospital, the corrected figure 537 represents an Infantile Mortality rate of 159 per 1,000 births, this rate being 1 per 1,000 higher than that of the previous year. The Infantile Mortality during the past year has shown a decided improvement when compared with the total deaths, the percentage of deaths under one year of age to the total deaths having declined 2.4 per cent. There was also a decline in the age period 1 year and under 5 years. The mortality per 1,000 births does not compare quite so favourably, owing to the very great decrease in the number of births registered. The reduction, which now seems to be permanent, made in the Infantile Mortality rates in the town during the past six years is a most satisfactory result of the persistent work of the Health Visitors. For the years 1898 to 1903 inclusive, the average Infantile Mortality per 1,000 births in this town was 190, and for the years 1904 to 1909 inclusive it was 165, a decrease of 25 deaths per 1,000 births, representing a saving of over 80 lives a year. There is, however, still very much work to be done before a satisfactory Infantile Mortality rate can be recorded. Since the adoption of the Notification of Births Act much greater progress has been made by systematic visiting. In 1908, the Health Visitors visited 1468 newly-born infants, and kept them under observation until those surviving were one year of age. From the following Tables it will be seen that in the Wards in which these births took place, namely, the St. Hilda's, Cannon and Newport, the proportion of Still-births to live births was 1 in 27.5, and that 3.7 per cent. of the births were those of illegitimate children, the St. Hilda's Ward having by far the greater number of such births, and that allowing for Still-births, removals and all other cases not traced, the Infantile Mortality was 196 per 1,000 births.

Most of the Infants were being breast-fed at the first visit, the total being 1,393 out of 1,468 born alive; the feeding after the first month or two varying from breast and bottle to mixed foods.

Table III. gives the number of deaths resulting from the various forms of feeding at the end of 6 months, the totals of columns 1, 2, 3 of Table III. correspond with column 2 of Table II. Column 4 of Table III. corresponds with column 3 of Table II. From these Tables it will be seen that in the St. Hilda's Ward, at the end of 6 months, out of 325 breast-fed infants 20 had died, and out of 26 bottle-fed infants 5 had died, and of the 14 mixed fed infants 9 had died.

		I	eaths of I	age and	under.		
			hs of				of Infants who
	Bre	ast-fed	l Infants.	Bottle-f	ed Infants		ed mixed eding.
St. Hilda's Ward		6.1 p	er cent.	19.2 p	er cent.	64.2 p	er cent.
Cannon Ward		7.0	,,	44.4	,,	10.0	,,
Newport Ward		6.5	,,	58.8	,,	100.0	,,

These percentages clearly demonstrate the advantages of Breast feeding.

Notification of Births Act.—During the twelve months ending December 31st, 1909, there were 3,483 Notifications of Births received, of which 148 were Notifications of Still-births. It will be seen from the following Table that the three Wards, Cannon, St. Hilda's and Newport, have the highest Infantile Mortality, and also the greatest number of Still-births. As the populations of the Wards are not known, it is impossible to give the birth rate for each Ward.

TABLE I. Summary of Births registered with the Medical Officer of Health during the year 1909.

						10						
th rate per 0 children ra alive.	Dea 1,00	73	7.9	121	94	95	57	102	118	120	105	Aver- age
ha occurring ug the year igst children otified.	durn	553	27	54	31	61	==	61	58	56	25	336
No. of births sed excluding tillbirths.	mon	315	3+5	446	329	233	194	216	490	468	304	3,333
emanumine	pi.	1-	NO.	00	Ξ	00	01	-	9	6	1-	
Stillbirths	1 ×	332 10	36013	713	9	10	17	Ŧ	===	6 9	9	80
No. of births fied including	tion			467	346	244	202	221	507	486	317	1 3,483 84 64
No. notified during the year.	E.	145	187	232	169	127	94	100	230	232	155	1671
1/4	M.	187	173	235	177	117	109	121	27.7	254	162	1812 167
Nove'ber Dec'mber	F.	14	11	119	17	. 15	=	+	18	27	14	150
Dech	M.	15	1.4	56	55	27	51	10	212	20	œ	17 17 17 17 17 17 17 17 17 17 17 17 17 1
.ber	12	Ξ	19	15	13	10	00	13	20	50	15	150 151
Nove	M.	18	00	17	14	×C.	00	œ	07	18	16	134
ber	E.	9	13	14	Ξ	00	9	1-	11	15	16	113
October	M.	55	14	67	=	00	Ξ	27	55	20	15	145
Septe' ber	2	15	27	50	10	00	10	=	13	119	6	127
Septe	M.	1.7	ΞĒ	62	Ξ	13	4	Ξ	25	13	14	162
	4	27	91	1-	17	==	7	10	55	13	Ξ	1
August	Ж.	8	13	27	27	1-	9	57	24	53	00	141 128
ly.	E.	Ξ	9	12	10	15	9	2	21	52	Ξ	127
July	M.	14	16	8	7	Ξ	00	10	30	14	4	671
10	F.	Ξ	18	22	15	9	10	10	16	91	=	129
June	M.	17	55	6	13	1-	11	6	50	11	55	135
- An	F.	Ξ	<u>«</u>	50	22	15	9	=	19	19	55	150
May	M.	21	15	61	18	14	10	1	25	8	91	166
=	F.	55	8	20	13	П	-	00	67	8	2	151
April	M.	27	16	12	18	6	00	œ	81	56	13	
eh	7.	50	82	24	15	1-	15	9	53	56	151	176 153
March	M.	10	16	30	15	133	13	9	50	27	12	171
nary	E.	15	10		Ξ	133	10	œ	31	21	10	137
Febru	м.	11	15	17	Ξ	10	6	18	53	119	91	149
January February	.i.	9	18	18	Ξ	=	4	10	16	23	16	133
Janu	M.	6	18	55	21	00	6	10	53	16	50	
WARDS.		yresəme	eklam	uouun	eveland	xchange	rove Hill	inthorpe	ewport	. Hilda's	ulean	TOTALS 156

13

The persons attending above confinements were:-

Doctors ... 1,815
Registered Midwives 932
Unregistered Midwives 736

3,483

TABLE II.—Particulars concerning 1,468 Infants born during 1908 in the St. Hilda's, Cannon and Newport Wards and visited during the first year of their lives.

	jo	Removed and not straced	133 : : : : : : : : : : : : : : : : : :	27	13 : : : : : :	22	8 : : : 1 :
(3)		Dead	σ : : : σ : : :	16	46 : : : : :	29	31 : : 18 : : 18
	isits at end 12 months.	evilA	138 178 3	322	145 5  163 3	316	190 362 362 362
	>	Total	159 4  199 3	365	172 8 : : 84 3 : : : :	367	210 3 192 192 194 109
	of	Hemoved and not triced	27	52	20 : : :	42	20 25 1 1 46
	end	Dead	: : - 8: : : 53	34	7-::4-::	33	27 1 : : 15 2 : : 54
(2)	d visit at months.	Mixed or other Feeding	6 : : : : : : :	14	r ::: ::::	10	∞ : : : 2 : : :   0
(2	3rd v 6 mo	Bottle Fed	9:::9:::	26	704:: 100::	18	7 : : : 6 1 : :   71
	2nd or	Breast	140 4 .:. 178 .:.	325	160 4  174 174	339	195 181 382 181 382
	27	Total	209 6 6 7 7 7 7 7	451	210 10  218 4	442	257 232 7 7 
		Removed and not traced	:::1:::	9	- : : :° : : :	4	01-1:9:::0
		Mixed	:::=:::	00	♥:::□:::	5	e : : : ⊢ : : : 4
		Bottle Fed	r:::":::	14	466 : : 00 61 : :	17	1 : :∞ c₁ : :   <del>x</del>
		Breast	195 6 5 5 5	429	202 7 7 209 209 2	420	247 3 223 5 7 7 8 7 8 7 8 7 8 8 8 8 8 8 8 8 8 8 8
	t.	Dead.	:: -4:: 48	18	13::	21	12 : 96 : 17
(1)	At 1st Visit.		DA'S WARD. Legitimate Illegitimate Illegitimate Legitimate Illegitimate Illegitimate Illegitimate Illegitimate Illegitimate Illegitimate Illegitimate Illegitimate Illegitimate	Andrew State of State	Legitimate Legitimate Legitimate Legitimate Legitimate Legitimate Legitimate Legitimate Illegitimate Legitimate Legitimate Legitimate		Legitimate Legitimate Legitimate Legitimate Legitimate Legitimate Illegitimate Legitimate Legitimate Illegitimate Legitimate
			HILL)		CANN		EWPC
			Males Alive Males Dead Females Alive Females Dead Dead		Males Alive Males Dead Females Alive Females Dead		Male Aliv Male Deac Fem Aliv Fem Deac
		Still Born.	::-4::-0	6	: :9 : : :9 :	20	sex not known 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Total	Births notified during 1908.	214 6 8 232 5 5	484	211 10 23 1 221 4 4 16	487	260 5 17 3 238 7 19 19 19

## TABLE III.—Table of particulars of the Feeding of 188 of these Infants who died under the age of 12 months.

### CANNON WARD.

		(1)			(2)			(3)			(4)		
Infants born in Feeding of Infants who died under 1 month old				who d	ng of I died be ne ages th & 3 n	tween	Feeding of Infants who died between the ages of 3 months & 6 months						Totals
1908	Breast fed	Bottle fed	Mixed and other feeding	Breast fed	Bottle fed	Mixed and other feeding	Breast fed	Bottle fed	Mix d and other feeding	Breast fed	Bottle fed	Mixed and other feeding	
Males Legitimate , Illegitimate Females Legitimate , Illegitimate	6	1  2	::	4 4	2  1		4  6 	1 1 	 .i	7 1 5	1  3	6 2 4	31 4 26 1
Totals	6	3	Nil	8	3	Nil	10	2	1	13	4	12	62

Total deaths in 6 months=33.

### NEWPORT WARD.

		(1)			(2)			(3)			(4)		
Infants born in	eeding of Infants who died under 1 month old			Feeding of Infants who died between the ages of 1 month & 3 months			who died between the ages of 3 months & 6 months						
1908	Br-ast fed	Bottle fed	Mixed and other feeding	Breast fed	Bottle fed	Mixed and other feeding	Breast fed	Bottle fed	Mixed and other feeding	Breast fed	Bottle fed	Mixed and other feeding	
Males Legitimate , Illegitimate	3			5	3	3	6	2	5	8	2	2	39
Females Legit mate ,, Illegitimate	3	1		2	2	2	5	·i		10	4	4	33
Totals	6	1	Nil	7	5	5	12	4	5	18	7	6	76

Total deaths in 6 months = 45.

### ST. HILDA'S WARD.

		(1)			(2)			(3)			(4)		
Infants born in	Feeding of Infants who died under 1 month old			Feeding of Infants who died between the ages of 1 month & 3 months			Feeding of Infants who died between the ages of 3 months & 6 months			Mixed			Totals
1908	Breast fed	Bottle fed	Mixed and other feeding	Breast fed	Bottle fed	Mixed and other feeding	Breast fed	Bottle fed	Mixed and other feeding	Breast fed	Bottle fed	Mixed and other feeding	
Males Legitimate	3			3	1	1	8	4	3	4	1	3	31
", Illegitimate						1			1				2
Females Legitimate	11			3		2	2		1	5	2	1	17
,, Illegitimate										• •			
Totals	4	Nil	Nil	6	1	4	10	4	5	9	3	4	50

Total deaths in 6 months = 34.

Illegitimate Children.—120 of the births registered were those of Illegitimate Children, this number being a decrease of 21 compared with the previous year, and equal to a rate of 35.6 per 1,000 births. The corresponding rate for England and Wales during the year 1908 was 39.9 per 1,000 births.

Marriages.—The number of marriages of persons, one or both of whom were resident in the Borough of Middlesbrough, during the year 1909 was 761, being a decrease of 107. The number of marriages has declined very considerably during the past two years, there being 963 marriages in 1907.

Uncertified Deaths.—Of the 2,068 deaths registered, 1,955 were certified by registered practitioners. Inquests were held respecting 92 deaths, whilst the remaining 21 were uncertified.

**Still-Born Children.**—The Superintendent of the Cemetery reports that 145 bodies of Still-born children have been interred during the year, 116 of these upon certificates given by Medical Practitioners and 29 by Midwives.

Vaccination.—Since the passing of the Vaccination Act of 1907 there has been an increasing number of exemptions each year. During the 4 years previous to the passing of this Act the average number of exemptions was 6 per year. Since the Act came into force the number of exemptions have averaged 386 per year. During 1909 there were 1,803 Certificates of successful Vaccination received by the Vaccination Officer and 691 Certificates of Exemption. The fact that there is this increasing number of the population unprotected against attacks of Small-Pox must not be lost sight of.

### Report on the Work done by the Health Visitors during the Year 1909.

By far the greater part of the work done by the two Health Visitors during the past year has been the visiting of newly-born infants and giving advice to mothers on the nursing and proper care of the health of the infants. In 1907 the Home Office asked for an enquiry to be made into the effect of woman's work upon Infant Mortality. There is very little female labour in this town, but it was thought that it would be advantageous to make a systematic enquiry into the circumstances and surroundings of the births in certain districts, and for this purpose all the infants born in the St. Hilda's, Newport and Cannon Wards during the year 1908 have been visited from time to time and kept under observation until they were 12 months old. The total number of these infants was 1,468. The final tabulation of the results of this enquiry will not be available for some time, but under the heading of Infantile Mortality will

be found a brief summary of the deaths and the effects of various forms of feeding upon the mortality. In the course of this work the Health Visitors have been able to estimate the amount of care and attention given to the infants, and to point out better methods of feeding when satisfactory progress was not being made. No cases of wilful neglect or carelessness were noted, but ignorance played a very important part, especially in regard to injudicious feeding and clothing.

One very significant fact was observed, namely, that difficulty was experienced in gaining entrance to many of the homes owing to the inmates being still in bed, often as late as noonday. This is thought to be one of the results of the lack of food and fire owing to poverty.

In addition to the visits to newly-born infants, the following work has been done during the year:—

Visits to Homes of School Children.—149 houses from which children, in a dirty or verminous condition, were attending school, were visited and instructions given as to the cleansing of the rooms and bedding. 104 re-visits were made to these houses, and in each case they were found to be improved.

Inspection of Midwives.—There are 18 Certified Midwives living and practising in this Borough, and 4 more who live in North Ormesby but practice in Middlesbrough; only three of the above are trained Midwives. 44 other uncertified women are known to be practising. During the year the Health Visitors made 42 visits to the Certified Midwives, inspecting their outfits and books with a view to enforcing the Regulations of the Central Midwives' Board. 56 visits were also made to the uncertified Midwives.

There were only two cases of Puerperal Fever reported during the year, both of which occurred in the Vulcan Ward. One of these confinements was attended by a Medical Practitioner and one by a Midwife. The cause of the disease in one case appeared to be due to the dirty condition of the house. Both cases recovered.

Houses Let-in-Lodgings.—There are 70 tenement houses which have been registered as Houses Let-in-Lodgings, of which 55 are occupied by families, the remaining 15 being practically unregistered Common Lodging-houses and occupied by men only. The Health Visitors made 91 visits to the rooms occupied by the families, 12 were found to be dirty, 5 cases of sickness were advised to procure medical attention.

House-to-House Visits.—Houses in the following Streets were visited and inspected, viz.:—St. Hilda's Ward—the small yards and courts off Durham Street, Commercial Street and Dacre Street. Vulcan Ward—Rock Street. Newport Ward—Queen Mary Street, with the following results:—

	No. of	Conditi	on at Firs	st Visit.	Condit Re-v	Houses	
WARD.	Houses Visited.	Clean.	Fairly Clean.	Dirty.	Im- proved.	Not Im- proved.	with Sickness.
St. Hilda's	 90	12	69	9	8	1	16
Vulcan	 15	14		1	1		
Newport	 42	15	22	5		'	
Totals	 147	41	91	15	9	1	16

### Visits under the Factory and Workshops Act-Domestic Workshops .-

- 143 were visited and found satisfactory.
  - 23 were visited and found to have removed.
  - 39 were visited and found to have ceased.

Outworkers.—72 visits were made and all found to be satisfactory.

During the various visits of inspection the following Sanitary defects were noted and referred to the Chief Sanitary Inspector:—

Defective	house	roofs			16
,,	,,	ceilings			3
,,	,,	Floors			9
,,	,,	Spouts			4
22	Privy	Roofs an	d Sea	its	7
2.3	Kitche	en Walls			8
,,	Sculle	ry Sinks			6
,,	Firepl	aces			3
,,	Yard .	Pavemen	ts		2
					_
					58

The following is a summary of the work of the Health Visitors during the year :-

### Visits to Infants under the Notification of Births Act.

Re-visi	ts to Infa	nts born d	luring 1	908 in th	ne S	t. Hilda	's Ward	1	841
	,,	,,		,,	(	annon V	Ward		715
	,,	,,		,,	1	Newport	Ward		790
Visits t	o Infants	born du	ring 190	9 in the	S	t. Hilda	's Ward	l	440
					I	Re-visits	to san	ne	538
	,,	,,		,,	(	annon 1	Ward		408
					I	Re-visits	to san	ne	377
	,,	,,		,,	N	Newport	Ward		394
					H	Re-visits	to san	ne	415
	,,	,,		,,	I	inthorp	e Ward	1	46
					I	Re-visits	to san	ne	30
	,,	,,		,,	1	Julcan V	Vard		25
					I	Re-visits	to san	ne	17
									5,036
X7:-:4 4	41 V	(7 and -							100
	o other V								106
	to-house								147
	ts to sam			* *					9
	to Houses				٠.				91
	y request					ng Office	ers, Doo	etors,	
	indlords,								55
	ts to sam								75
	o Houses	the same of the same of	and Ver	rminous	Ch	ildren			149
	ts to sam								104
Visits t	ınder Fac	tory and	Worksh	ops Act					277
Visits t	to supervi	ise practic	ce of Mi	dwives					98
				T	ota	l Visits			6,147

It is difficult to estimate the amount of improvement in the general Sanitary condition of the town due to the above supervision, and probably the result is very small in comparison with the labour expended. There is evidence of improvement in the cleanliness and comfort of many of the homes and of the saving of infantile life, but the scope of the work aims at other results which are not so apparent, namely, the encouragement and help given by sympathetic visitors to those in need of friendly advice and instruction.

### Sanatorium for Infectious Diseases.

During the year 1909 there were 253 cases of Infectious Disease treated at the Hospital, being a decrease of 74 compared with the previous year.

The following Table shows the monthly admissions:-

DISEASE.	Remaining in Hospital, Dec. 31st, 1908.	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Scarlet Fever	16	10	6	10	10	9	6	6	13	10	7	2	4	109
Enteric Fever  Diphtheria and Membran-	6	5	9	12	2	3	2	5	9	5	7	2	2	69
ous Croup	11	4	7	7	4	5	9	7	1	3	3	6	8	75
Totals	33	19	22	29	16	17	17	18	23	18	17	10	14	253

The following deaths occurred at the Hospital :-

DISEASE.		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Scarlet Fever .	 				1			1	1					3
Enteric Fever .	 	1	1	1	1	2	1		1		2		1	11
Diphtheria	 	2	1	1	1		2	4				1	2	14
Totals	 	3	2	2	3	2	3	5	2		2	1	3	28

30 of the admissions were cases from outside districts, namely, 11 Scarlet Fever, 6 Diphtheria and 13 Enteric Fever.

They were admitted from the following places :-

			Scarlet Fever	Enteric Fever	Diphtheria.
Thornaby		 	7		
North Ormesh	ру	 	2	9	5
Stokesley		 	2		
Cargo Fleet		 			1
Yarm		 		1	
The Asylum		 		2	
South Bank		 		1	

Scarlet Fever.—109 cases were treated, of which 11 were outside cases. There were 3 deaths, one being an outside case, the death rate being 2.7 per cent. of the cases.

Enteric Fever.—69 cases were treated, 11 of which were fatal, 13 being outside cases, of which two were fatal, the death rate being 15.9 per cent. of the cases.

Diphtheria.—75 cases were treated, 14 of which were fatal, 6 being outside cases, of which two were fatal, the death rate being 18.4 per cent.

The total death rate for the year being 11.0 per cent. of the cases under treatment. This is much higher than in previous years, one reason for which being the fewer number of admissions with an equal number of severe cases.

## TABLE IV.—INFANTILE MORTALITY DURING THE YEAR 1909. Deaths from stated Causes in Weeks and Months under One Year of Age.

				-										-			
CAUSE OF DEATH.	Under 1 Week	1-2 Weeks	2-3 Weeks	3-4 Weeks	Total Under 1 Month.	1-2 Months	2-3 Months	3-4 Months	4-5 Months	5-6 Months	6-7 Months	7-8 Months	8-9 Months	9-10 Months	10-11 Months	11-12 Months	Total Deaths under One Year
All Causes Certified	\$9 2	30	26	15	170	51	46 2	31	31	30	29	34	25 1	22	30	31	530 7
Common Infectious Diseases— Measles Whooping Cough Diarrheal Diseases Diarrhea, all forms		2			4	2	1	2	5	2	1	1 8	1	1 3	1 3	2 5	5 28 54
Enteritis, Muco- enteritis, Gastro- enteritis		1	1		2	1 4	2	3	6	2	1	3	2		1		23 12
Wasting Diseases— Premature Birth Congenital Defects Want of Breast-milk	59	4 3	4 3		67 18	4 2	1										72 22
Malnutrition Atrophy, Debility, Marasmus TUBERCULOUS DISEASES—		8	10	6	40	17	19	9	8	8	6	3	1	2	8	3	1 124
Tuberculous Meningitis  Tuberculous Peritonitis: Tabes  Mesenterica							1	2	1	1			2	2	1		8
Other Tuberculous Diseases OTHER CAUSES— Syphilis							1				1						2
Rickets  Meningitis (not Tuberculous) .  Convulsions		1 5			 1 14	2		1		2	2	1 3	2 3	1	1	4	11 29
Bronchitis		2	1	2 1	5 1	7 1 2	3	1 1	3 6	1 5	3 8	2 6	2 6	1 7	2 9	3 12	34 1 66
lying	. 8	1 2	3	5	1 18	2	2	1		1	3	2		1	2	1	4 30
	101	31	26	15	173	51	48	31	31	30	29	35	26	22	30	31	537

TABLE V.—Notifications of Infectious Diseases received during the year 1909.

WARD.	Scarlet	Diph- theria	Typhoid Fever	Con- tinued Fever	Puer- peral Fever	Erysip- elas	Total
Ayresome	5	14	10	1		13	43
Acklam	12	15	6	1		6	40
Cannon	11	5	4			13	33
Cleveland	13	2	9			8	32
Exchange	8	7	5			7	27
Grove Hill	9	16	2			3	30
Linthorpe	20	11	1			5	37
Newport	19	9	7			9	44
St. Hilda's	. 5	10	12			18	45
Vulcan	3	8	13		2	10	36
Total	105	97	69	2	2	92	367

TABLE VI.—Showing the kind of Sanitary Accommodation in the Houses in which Enteric Fever occurred during the year 1909.

WAR	D.	Pan	Ashpit	W.C.	Total Cases
Ayresome		 8		2	10
Acklam		 6			6
Cannon		 3		1	4
Cleveland		 9			9
Exchange		 3	1	1	5
Grove Hill		 1		1	2
Linthorpe		 		1	1
Newport		 6	1		7
St. Hilda's		 12			12
Vulcan		 13			13
Tota	ls	 61	2	6	69

TABLE VII.—Cases of Infectious Diseases notified during the Year 1909, and classified according to Districts and Age, and shewing the number removed to Hospital.

	Cas	SES II	s Wi	HOLE	Dist	TRICT.								
Notifiable				At Ag	ges.			1	NOTIF	TED	CA		REMO	
DISEASE.	At	er xr	nder	nder	and under 25 years	and under 65 years	Ars		CALITY				ALITY	7
	Ages	Under 1 year	landunder 5 years	5 and under 15 years	15 and t	25 and t	65 years and over	East of Linthorpe Road	West of Linthorpe Road	North of Rail- way	East of Lin- thorpe Road	West of Lin- thorpe Road	North of Rail- way	Total
Diphtheria (including Membranous Croup)	97	1	40	50	2	4		36	52	9	19	33	4	56
Erysipelas	92	2	4	7	6	63	10	25	49	18				
Scarlet Fever	105		30	59	11	5		36	64	5	21	57	5	83
Enteric Fever	69		6	19	11	33		23	33	13	12	26	10	48
Continued Fever	2			1		1			2			2		2
Puerperal Fever	2				1	1		2						
Totals	367	3	80	136	31	107	10	122	200	45	52	118	19	189

### TABLE VIII.—Causes of, and Ages at, Death during Year 1909.

			-		es of " eyond t			"Reside	hs at all Ag suts" belon , whether o	giug to ecurring	Public ons
Causes of Death.	All ages	Under 1 year	1 and under 5	5 and under 15	15 and under 25	TO COMPANY OF THE PARK	up-	East of Lin- thorpe Road	West of Lin- thorpe Road	North of the Rail- way	in
Measles	61	5	53	3				8	24	29	2
Scarlet Fever	2		1		1				2		4
Whooping Cough	69	28	39	2				6	39	24	
Diphtheria (including				10000	1	093	100			1 1707	1000
Membranous Croup)	22		17	-5				6	12	4	12
Croup	1	1							1		
(Enteric	16		1	2	4	9		6	7	3	11
Fever Other Con-							100				100
tinued											
Epidemic Influenza	17		2	1		9	5	7	10		1
Diarrhœa	74	54	18			1	1	8	48	18	2
Enteritis	35	28	- 7					13	12	10	
Gastritis	15	7	2		1	5		7	5	3	2
Puerperal Fever	7		1		1	3	2	1	5	1	3
Erysipelas	3					3			2	1	1
Phthisis (Pulmonary						750					
Tuberculosis)	126		4	10	20	89	3	29	67	30	48
Other Tubercular						-					1
Diseases	71	15	34	10	4	8		19	38	14	11
Cancer, Malignant											
Disease	88		2	1		60	26	32	43	13	21
Bronchitis	132	34	14	1		45	38	33	76	23	23
Pneumonia	399	66	111	11	24	154	33	109	209	81	53
Pleurisy	6		1		1	3	1	3	1	2	
Other Diseases of							1				
Respiratory Organs	14	1	4	2	1	5	1	4	7	3	3
Alcoholism, Cirrhosis											
of Liver	12	1				9	2	5	4	3	
Venereal Diseases	- 6	4				2		2	1	3	7
Premature Birth	72	72						15	50	7	1
Diseases and Acci-			_						1 77		
dents of Parturition	10	1			1	8		1	8	1	1
Heart Diseases	146	3	4	2	8	81	48	53	61	32	22
Accidents	49	7	10	4	3	20	5	8	26	15	23
Suicides			.:		1	2			3		1
Manslaughter	3		1			2			1	2	2
Cerebro-Spinal											
Meningitis		1	4	1::	111	100	190	1 100	210	108	92
All other Causes	579	209	66	14	14	138	138	163	310	106	92
All Causes	2,043	537	396	67	84	656	303	539	1,076	428	346

TABLE IX.—Vital Statistics of separate Localities in 1909 and previous years.

	Deaths under I year	d.	379	332	370	336	342	356	317	356	348	305
West of Linthorpe Road.	Deaths at all Ages	°.	1,043	948	1,089	912	1,103	1,080	1,085	1,134	1,049	1,076
West of horpe R	Births Registered	þ.	:	:	:	:	:	:	:	:	:	:
Linth	Population estimated to middle of each year	ė	47,095	48,256	48,953	49,869	51,383	52,847	54,063	55,181	50,956	56,539
_	Deaths under I year	d.	146	173	155	144	136	144	126	142	146	135
of Road.	Deaths at all Ages	°°	507	534	526	528	536	532	531	505	525	539
East of Linthorpe R	Births Registered	b.	:	:	:	:	:	:	:	:	:	:
Linth	Population estimated to middle of each year	.8.	29,083	29,956	30,918	31,673	31,844	32,080	32,578	33,176	31,413	33,518
	Desths under 1 year	d.	132	109	120	128	115	III	100	93	113	97
of vay.	Deaths at all Ages		450	430	454	494	446	462	461	427	453	428
North of the Railway	Births Registered	р.	:	:	:	:	:	:	:	:	:	:
N <sub>c</sub>	Population estimated to middle of each year	g,	15,139	15,142	15,142	15,142	15,142	15,142	15,142	15,154	15,143	15,198
	Deaths under I year	d.	657	614	645	809	593	611	543	591	809	537
District.	Deaths at all Ages	c.	2,000	1,912	2,069	1,934	2,083	2,074	2,077	2,066	2,027	2,043
Whole Dis	Births Registered	p.	3,328	3,370	3,489	3,589	3,435	3,594	3,483	3,733	3,503	3,363
W	Population estimated to middle of each year	ď.	91,317	93,354	95,013	96,684	98,369	100,069	101,783	103,511	97,512	105,255
Names of Localities.	YEAR.		1901	1902	1903	1904	1905	9061	1901	8061	Averages of Years 1901 to 1908	6061

Notes. (a) Deaths of residents occurring in public institutions beyond the district are included in sub-columns c. of this Table, and those of non-residents registered in public institutions in the district excluded.

(b) Deaths of residents occurring in public institutions, whether within or without the district, are

allotted to the respective localities according to the addresses of the deceased.

TABLE X.—Vital Statistics of Whole District during 1909 and previous Years.

	0	Fear. Bir.	гнз	Тотац	DEATH N THE	s Regist District	TERED	0	ts ict	is- ons	all	aths at
	ated t Year.				1 Year	At all	Ages_	Publi the	esiden ublic Distr	dents regis- Institutions District	the D	ing to
YEAR	Population estimated to Middle of each Year.	Number	Rate*	Number	Rateper 1,000 Births registered	Number	Rate*	Total Deaths in Public Institutions in the District	Deaths of Non-Residents registered in Public Institutions in the District	Deaths of Resic tered in Public beyond the	Number	Rate*
1	2	3	4	5	6	7	8	9	10	11	12	13
1899	93,515	3,130	33.45	575	183	2,058	22.00	269	33	49	2,074	22.17
1900	97,007	3,343	34.46	663	198	2,407	24.81	337	39	72	2,440	25.15
1901	91,317	3,328	36.44	657	197	1,995	21.84	262	40	45	2,000	21.90
1902	93,354	3,370	36.09	616	182	1,912	20.48	309	45	45	1,912	20.48
1903	95,013	3,489	36.72	650	186	2,072	21.80	282	52	49	2,069	21.77
1904	96,684	3,589	37.12	612	170	1,928	19.94	303	44	50	1,934	20.00
1905	98,369	3,435	34.91	598	174	2,066	21.00	291	46	63	2,083	21.18
1906	100,069	3,594	35.91	616	171	2,075	20.73	356	60	59	2,074	20.72
1907	101,783	3,483	34.22	547	157	2,103	20.66	322	73	47	2,077	20.46
1908	103,511	3,733	36.06	595	159	2,077	20.06	299	70	59	2,066	19.95
Average for years 1899-1908	97,062	3,449	35.53	612	177	2,069	21.32	303	50	54	2,073	2,136
1909	105,255	3,363	31.95	543	161	2,068	19.64	346	84	59	2,043	19-41

\*Rates in Columns 4, 8, and 13 are calculated per 1,000 of estimated population.

Note.—The deaths included in Column 7 of this Table are the whole of those registered during the year as having actually occurred within the district. The deaths included in Column 12 are the number in Column 7, corrected by the substraction of the number in Column 10 and the addition of the number in Column 11.

By the term "Non-residents" is meant persons brought into the district on account of sickness or infirmity, and dying in public institutions here; and by the term "Residents" is meant persons who have been taken out of the district on account of sickness or infirmity, and have died in public institutions elsewhere.

The "Public Institutions" taken into account for the purposes of these Tables are those into which persons are habitually received on account of sickness or infirmity, such as hospitals, workhouses and lunatic asylums.

The following Institutions within the district receive Sick persons from outside the district viz.—The North Riding Infirmary and the Corporation Sanatorium for Infectious Diseases.

The Institutions outside the district receiving persons from the district are.—The North Ormesby Cottage Hospital and the Cleveland Asylum. The Union Workhouse is within the District.

Total population at all ages						91,317	
Number of inhabited houses						17,633	at Census of
Average number of persons pe	r hous	se				5.17	1901.
Area of District in acres (exclu	sive o	f area	covered	l by w	ater)	2,824	

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of Railway—W	15 Yrs. and under 25.		: : :01 :	:	:	:	:-	:	:	: :
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	CAUSE OF DEATH.	I.—Specific, Febrile, or Zymotic Diseases.	Measles Scarlet Fever (Scarlatina) Diphtheria Whooping Cough Enteric or Typhoid Fever	Other Miasmatic Diseases —Cerebro-Spinal Meningitis	2. Diarrheal Diseases. Diarrhea, Dysentery	3. Venereal Diseases.	Erysipelas Pyæmia, Septicæmia		Animal Parasitic Diseases	Starvation and want of Breast Milk Chronic Alcoholism,
			HUMPHH		C4 Im	V-5 02	4			0 0

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st of	bns.srV 59 upwards		:: 50 :: :	:		:::::	-:	1	:		
ry—We Road.	25 Yrs. and under 65		3: 57 ::	-		:: -: -	:01	:	:		-
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South of Railway—West Linthorpe Road.	10 Yrs. and under 15		:::4::	:		:::::	::	:	:		:
h of Lir	5 Yrs. and ander 10		::: : :: :	:		:-:::	::	:	:		:
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	CA	4. Diseases of Respir- atory System.	Croup  Laryngitis  Bronchitis  Pneumonia  Pleurisy  Emphysema, Asthma		5. Diseases of Diges- Tive System.	Dentition Tonsillitis, &c Diseases of Stomach Enteritis Peritonitis	of Intestine Cirrhosis of Liver	Other	1	6. DISEASE OF GLANDLIKE ORGANS OF UN- CERTAIN USE.	(e.g., Bronchocele, Addison's Dis
1		4	CHEFFEC	) 1	10	HEUHA	OF	. 0	)	9	5 1

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tals	Grand Tot	9	4	00		-	00	7		61		10	60
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ons.	25 Yrs. and under 65	0	o :	C3		:	:	:		:		:	:
Institutions	15 Yrs. and ander 25		: :	:		:	-	:		-		:	::
	10 Yrs. and ander 15		: :	:		:	:	:		:		:	:
Public	5 Yrs, and under 10		: :	:		:	:	:		:		:	:
"	I Yr. and under 5		: :	:		:	:	:		:		;	:
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-West of	der 65 Yrs. and		0 -	60			_	10				_	:
1 4	under 25 Zrs. and		: :	:			:	:					:
ailway lorpe B	dl abnu l5 Yrs. and					·	•			<u> </u>		·	·
of Re Lintho	onder 10 10 Yrs. and			-		-	- :	-		•		-	<u>:</u>
South of R	bna say 3		: :			:	:	:		:		:	:
og .	I Yr. and		34 :		1-	:	:	:				_ :	:
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t of	65 Yrs. and upwards			-		:	:	:		:		:	:
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of Railway—E.	10 Yrs. and ander 15		: :	:		:	:	:		:	+	:	:
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	CAUSE OF DEATH.	DISEASES OF URINARY SYSTEM.		the	DISEASES OF REPRODUCTIVE SYSTEM.  (A) Of Organs of Generation.	:	(B) Of Parturition.	:	DISEASES OF LOCO- MOTIVE SYSTEM.	Arthritis, Ostitis, Periostitis	O. DISEASES OF INTEGU- MENTARY SYSTEM.	Carbuncle, Phlegmon Cellulitis	
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	Total	51::01	- 00	61	-:::	96:	346
	bns.srV 58 abrawqu	-:::	:-	:	::::	:::::::	99
tions	25 Yrs. and under 65	-::-	:9	1	-:::	:::	181
Public Institutions	15 Yrs. and under 25	:::-	:-	:	::::	::::::	26
lic Ir	10 Yrs. and Inder 15	-:::	::	:	::::	::::::	9
Pub	5 Yrs, and under 10	o : : :	::	:	::::	::::::	14
	I Yr. and ander 5	9 : : :	::	-	::::	7::::::	35
	Under I Yr.	::::	- :	:	::::	# : : : :	51
	IstoT	-01:0::	- 63	:	::::	17:::2	311
	65 Yrs. and upwards	7:::	::	:		::::::	27
·.	25 Yrs. and under 65	:01 ::	:04	:	::::	:::;01 -	84
Railway.	15 Yrs. and under 25	::::	::	:	::::	:::::	10
	10 Yrs. and drawn 15	::::	::	:	- ::::	:::::::	:
North of	5 Yrs. and under 10	::::	::	:	::::	::::::	10
N	I Yr. and under 5	::::	:-	:	::::	c <sub>1</sub> ::::::	85
	Under I Yr.	::00:	- :	:	::::	2::::::	93
-	Total	co c4 ~ co	: 0		:	2001 :- 20 4	934
Jo :	65 Yrs, and upwards	7::7	::	:	::::	:-::: 6	114
-West of	25 Yrs. and under 65	-01:-	:03	-	::	:-:::::::::::::::::::::::::::::::::::::	257
5.4	15 Yrs. and under 25	::::	:-	:	:-::	::::- :	83
South of Railwa Linthorpe	10 Yrs. and under 15	::::	::	:	::::	:::::::::::::::::::::::::::::::::::::::	12
h of I	of Yes, and of reban	::::	::	:	::::	:::::::	15
Sout	I Yr. and under 5	7::7	:-	-:	::::	2:::	90
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ast	bna sand			-			104
ad.	bas.srY 52	::::	: 4	:	::::	::::: -	145
South of Railway—East of Linthorpe Road.	15 Yrs. and ander 25	::::	::	:	::::	::::::	14
Rail	10 Yrs. and ander 15	::::	::	:	::::	::::::	1-
th of Lint	5 Yrs. and under 10	::::	::	:	::::	:::::::	9
Sout	I Yr. and	::::	::	:	::::	7:::::	69
	Under I Yr.	::::	::	:	::::	E :::::	132
	H	.:::	tion	nter	::::		=
	CAUSE OF DEATH.		on Surgical Operation idental Injuries	-Homer		VIII.—Deaths from III- uses. billity, Atrophy, Inanition ortification seess emorrhage or III-defined or III-defined	00
	DE.	NEG-	Op	nsla	::::	Deaths frond not Spending Atrophy, tion ion age isses not Spended defined	TOTALS
	F ]	r, N	ical	DE.		eath not troi on n	To
	0	-Vio	Surg Sal J	nud	DE.	and rand rand rand rand rand rand rand r	GRAND
	USI	ACCIDENT, NEGLIGENCE, ACCIDENT, NEGLIGENCE, &C. owning ffocation ornia	on Surgical Opering	-Homode.	SUCIDE.  it, Stab  vison  cowning	VIII.—Deaths fined and not Suss.  sbility, Atroph Inanition ortification imour bscess amorrhage ther Causes not or III-defined or III-defined	GR
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### FACTORY AND WORKSHOP ACT, 1901.

On January 1st, 1909, there were 419 Workshops and 81 Bakehouses on the Register

During the year 73 Workshops and 12 Bakehouses have been added to the Register, and 54 Workshops and 10 Bakehouses were struck off, 4 of the Workshops being converted to Factories by the adoption of mechanical power.

The year therefore closed with a total number of 521 Workshops and Bakehouses on the Register.

1,438 Inspections have been made and 177 nuisances or other contraventions met and dealt with, 167 of which have been remedied.

WORKSHOPS ON THE REGISTER, DECEMBER 31st, 1909.

TRADE.	On Register Jan. 1st, 1909	Added to Register during 1909	Removed Removed	from Register Converted into Factories	Total Remaining on Register
Dress and Mantle Makers	67	20	16		71
Tailors	46	10	6		50
Watchmakers	_	1			8
Boot Makers and Repairers	72	7	8	3	68
Milliners	10	1			20
Hosiery Knitters	8	1			9
Plumbers	15	1			16
Joiners and Cabinet Makers	1000000	12	4	1	68
Blacksmiths	10				10
Sugar Boilers	-	2	2		7
Lubricant Manufacturers		1			5
Salt Packers	0	1	3	1	7
Saddlers	5	1	1		5
Cycle Repairers	12	4	3		13
Picture Framers	10				10
Scale Makers and Repairers	2				2
Wheelwrights and Coach	1			1 100	7
Builders	7				7
Laundries	4				4
Paper Bag Makers	2				2
Coopers	2				2
Tinsmiths	6	1	2		5
Beer Bottlers	1				1
Engineers	5	2	1		6
Engravers	3				3
Miscellaneous	35	8	4		39
Bakehouses	81	12	10		83
Totals	500	85	60	4	521

Under Notices served for defective closet accommodation, 3 pail closets and 1 double privy-midden were abolished and 5 water closets substituted.

### Summary of Visits made by the Inspector during the Year.

То	Factories							260
,,	Workshops							750
,,	Bakehouses							173
,,	Outworkers	other t	han R	egistere	ed Wor	kshops		88
19	Domestic We	orksho	ps not	on the	Regist	er		53
,,	Domestic Ba	kehou	ses not	on the	Regist	er		33
,,	Workplaces							39
,,	Premises who	ere Of	fensive	Trades	s are ca	rried or	ı	42
				,	Total			1,438

### FACTORIES, WORKSHOPS, WORKPLACES AND HOMEWORK.

1.—Inspection of Factories, Workshops and Workplaces.

Including Inspections made by Sanitary Inspectors of Inspectors of Nuisances.

Premises.	Number of Inspections.	Number of Written Notices.	Number of Prosecutions.
Factories (including Factory Laundries)	260	7	Nil
Workshops (including Workshop Laundries)	965	42	,
Workplaces (other than Outworkers' premises included in Part 3 of this Report)	39	1	"
Total	. 1,264	50	,,

	Numb	Number of Defects.	ts.	Number of
Particulars.	Found	Found Remedied. Referred to H.M. Inspector	Referred to H.M. Inspector.	r rosecutions.
Nuisances under the Public Health Acts:-				
Want of Cleanliness	45	41	Nil	Nil
Want of Ventilation	13	11	33	
Overcrowding	1	1	33	
Other Nuisances	34	32	33	
*Sanitary Accommodation: Insufficient	33	co		
Unsuitable or Defective	- 70	65	33	
Not separate for sexes	1	1		
Offences under the Factory and Workshop Act:-				
Breach of special Sanitary requirements for Bake-				
houses (SS. 97 to 100)	13	13	33	**
Total	177	167	"	66

2.—Defects Found in Factories, Workshops and Workplaces.

\*Sec. 22, P.H.A. has been adopted.

Standard of Sufficiency—One Closet for each 25 employees, except in large Factories. Standard of Suitability-Closets to conform with the Local Building Bye-Laws.

3.—Номе WORK.

	1						
	IN IN	es, es, 9, 110.	Prose-	Orders cu- made tions (S.110) (S. 109	IN	2 2	:
	OUTWORK IN	INFECTED PREMISES, SECTIONS 109, 110.		Orders cu- made tions (S.110) (S. 10	Nil	: :	
	10	SECT		In- stan- ces.	N	: :	,,
	N	oME s, 08.		No- Prose- tices cu- erved tions,	N	: :	**
	ООТ-МОВК IN	UNWHOLESOME PREMISES, SECTION 108.		No- Prose- tices cu- served tions,	Nil	2 2	**
	00	SEC	150	In- stan- ces,	N		,,
		Inspec- tions of	workers'	premises.	140	::	140
	cions.			lists.	N	: :	:
	Prosecutions.	Failing	or permit Failing	spection of lists.	INI		:
VORK.	Notices	on Occu-		other to other or spection Councils Councils sending of lists.	N	2 2	
о поме мокк.	Jo sess	Incls.	For-	warded to other Councils	9	: 03	œ
9.	Addresses of		Outworkers Received	other Councils	Nil	2 2	"
	90	ne in	orkers	Lists Con- Work- Lists Con- Work- tract- men tract- men ors	œ ·	<b>-</b> :	6
	Lists received from Employers.	Sending once in the year	Outwo	Con- tract- ors	-	: :	1
	rom Er	Senc		Lists	1	7 :	00
	seived f	ce in	orkers	Work- men	132	: :	132
	Lists red	Sending twice in the year	Outworkers	Con- Work tract- men ors	16	: 01	58 18 132
	П	Send		Lists	56	: 01	
			Nature of Work.		Wearing Apparel— Making, &c.	Furniture and Uphoistery Umbrellas, &c	Total

### 4.—REGISTERED WORKSHOPS.

		1000						
Worksho	ops on the Reg	ister (S.	131) s	t the	end of t	he year	r.	Number
W. 1	Clathing							150
Workers in								73
,,	Leather	LTood						55
,,	Iron, Tin and		• •					87
13	Wood		* *	• •				8 -
2.5	Jewellery							83
	Bakehouses							65
Miscellane	ous		* *					
	Total num	per of W	orksh	ops or	Regist	er		521
		5.—Отн	ER M	ATTER	s.			
		-						Number
		Class.						Number
Matters n	otified to H.M	. Inspec	tor of	Facto	ories :-			
Failu	re to affix Abst	ract of t	he Fa	retory	and W	orksnoj	o Act	10
(	S. 133)							16
Actio	n taken in m	atters re	eferre	d by	H.M. 1	nspect	or as	
1	emediable une	der the	Publ	ic He	alth Ac	ets but	not	
1	inder the Fac	tory and	1 Wo	rkshol	Act (	S. 5)—		00
	Notified by	y H.M. I	nspec	etor_				22
	Reports (o	f action	taken	a) sent	to H.M	I. Inspe	ector	12. In all
								cases the require
								ments of the
								notices have
								been carried
								out.
Undergro	und Bakehouse	es (S. 10	1)—					
Certi	ficates granted	during	the y	ear				Nil
In us	se at the end o	f the yea	ır					1
		*****						An Order for it
								closure has
								been issued.

I have the honour to be, Gentlemen,

Your obedient Servant,

CHARLES V. DINGLE, M.D.,

Medical Officer of Health.

## Annual Report of the Chief Sanitary Inspector for the Year 1909.

Sanitary Department,

Municipal Buildings,

Middlesbrough.

### To the Chairman and Members of the Sanitary Committee.

Gentlemen,—I have the honour to lay before you my Twenty-third Annual Report on the operation of the Sanitary Department.

During the year there were 4,484 Notices served upon Owners to abate the undermentioned Nuisances:—

Dilapidated Ashpans (Renewed)				 2,316
Pail Closet Doors Off (Renewed)				 893
Ashpit Doors Off (Renewed)				 40
Privy Doors and Seats Off				 456
Defective Pail Closets (reduced to size	of Asl	npans)		 74
Dilapidated Ashpits and Privies				 277
Offensive Ashpits (Abolished)				 16
Pail Closets Substituted				 24
Offensive Ashpits (Abolished)				 24
Water Closet Substituted				 37
Offensive Pail Closets (Abolished)				 55
Water Closets Substituted				 55
Defective Water Closets (Repaired)				 19
Dilapidated Yard Walls				 8
Dilapidated House and Scullery Wall	8			 14
Damp House Walls				 5
Defective House Roofs				 61
Dilapidated Kitchen and Scullery Flo	ors			 67
Dilapidated Cellar Floors (Relaid wit	h Cone	rete)		 9
Dilapidated Stable Floors				 3
Dilapidated Shop Floor (Relaid with	Concre	te)	*1*	 1

Dilapidated Yards (Relaid with Concrete or Scoriæ Brick	(s)	43
Dilapidated Yards (Repaired)		39
Dilapidated Passages (Repaved)		11
Dilapidated Passages (Repaired)		25
Dilapidated Spouting and Fallpipes		196
Defective Ceilings		9
Defective Windows		8
Overcrowding		4
Inadequate Water Supply		43
Offensive Deposits		3
Dangerous Hatchway		1
Defective Chimneys		12
Dilapidated Manure Pits		3
New Manure Pit Built		1
Fowls kept in Yards (Removed)		12
Dangerous and Offensive Well (filled up)		1
Dirty and Filthy Premises (Cleansed)		8
Inspection Chamber Built		2
New Urinals Built		2
Foul Yard Drains (Cleansed)		497
Foul Cellar Drains (Cleansed)		11
Foul Stables Drains (Cleansed)		2
Defective Drains (New Gullies fixed)		27
Defective Sink Drains (Disconnected)		5
Defective Sink-waste Pipes		32
Dilapidated Gully Covers (Renewed)		18
Dilapidated Brickwork over Gullies		2
Dilapidated Sinkstones (Renewed)		22
Public Health Notices Served		1,053
Whitewashing Notices Served		242

The foregoing particulars only represent the cases where Formal Notices have been served, and do not include Nuisances prevented or abated by the verbal request of your Inspectors.

One Notice frequently deals with several separate Nuisances.

### MAIN DRAINS.

In addition to the above, our Staff has cleared 9,431 yards of Main Drains in Back Passages, and relaid 248 yards with proper gradients.

471 yards of Glazed Stoneware Sanitary Pipes have also been laid, in lieu of broken land tiles, segments, etc.

1 New Flushing and Examination Chamber has been constructed, and 7 New Gullies and 15 New Grates and Frames have also been fixed.

100 Manholes in the old parts of the town have been regularly emptied and cleansed as often as found necessary.

2,226 Choked Drains have also been cleared by the aid of Cooper's Vacuum Pump free of charge to the Owners.

### DISEASED AND UNWHOLESOME FOOD.

During the year 23 seizures of Diseased and Unwholesome Food were made, as shown by the undermentioned Table:—

Number of Seizures.	Article.	Weight.
16	Beef	2,083 lbs.
3	Pork	434 ,,
1	Mutton	42 ,,
1	Rabbits	20 ,,
1	Cherries	312 ,,
1	Apples	28 ,,

In each case the articles of food were surrendered voluntarily and destroyed with the consent of the Owners. Notice to inspect same having been previously given to your Inspector.

### FOOD AND DRUGS.

During the past year 302 Samples of Food and Drugs have been procured and submitted to the Borough Analysts (Messrs. J. E. Stead and H. Frankland) for analysis, with the undermentioned results:—

e undermendoned resul	Number		
Nature of Samples.	Submitted.	Genuine.	Adulterated.
Milk	110	72	38
	4	4	
Cream		2	
Butter and Margarine		62	
Lard and Dripping		31	
Cheese		23	
Sausage, Black Pudding			
and Poloni		15	
Tea, Coffee and Cocoa		12	
Jam, Marmalade and Go			
	9	9	
Spirits		8	
Mustard and Pepper		5	•
Beef Extract		4	
Disinfectants		4	
Bread, Cornflour and Ye		3	
Castor Oil, Mineral Oil a			
Sauce		3-	
Sweets		2	
Calcined Magnesia			2
Salmon and Shrimp Pa		1	_
Composition Essence		1	
Carbonate of Soda	1	1	
Totals	302	262	40
			_
	SUMMARY		
January to March			98
April to June			
July to September			
October to December.			71
and the second of the second o			
	Total		309

Seven Samples of Fresh Sausages (although returned "Genuine") contain chemical preservatives varying from 0.34 to 23.18 grains per pound.

This practice cannot be too strongly condemned.

It is hoped that the Local Government Board, who have this subject under consideration, will issue their Report at an early date.

No.	Nature of Sample.	Result of Analysis.	Remarks.				
1 to 26	Assorted	Genuine					
27	Milk	3% Fats extracted	Retailer's attention called to the poor con- dition of the milk, and warned as to the consequences should no improve- ment be effected in the future.				
28 to 31	Milk	Genuine	ment be enected in the future.				
32	Milk	10% Fats extracted	Retailer ordered to appear before the Town Clerk and myself to explain the poor condition of milk. Explanation accepted, but warned as to the con- sequences should no improvement be effected.				
33 to 35	Assorted	Genuine	one vet.				
36	Milk	20% Fats extracted	Do. do.				
37	Milk	10% Fats extracted	Do. do.				
38	Milk	13% Fats extracted	Do. do.				
39 to 42	Assorted	Genuine					
43	Milk	6.6% Fats extracted	Do, do.				
44	Milk	3.3% Fats extracted	Retailer's attention called to the poor condition of the milk, and warned as to the consequences should no im- provement be effected.				
45 to 63	Assorted	Genuine					

No. No.	Nature of Sample.	Result of Analysis.	Remarks.
67	Milk	13% Fats extracted	Retailer ordered to appear before the Town Clerk and myself to explain the poor quality of milk. Explanation accepted, but warned as to the con- sequences if no improvement is effected.
68 to 70	Milk	Genuine	
71	Milk	6.6% Fats extracted	Do. do.
72 to 74	Assorted	Genuine	
75	Milk	8% Fats extracted	Do. do.
76	Milk	Genuine	
77	Milk	20% Fats extracted	Retailer ordered to appear before the Town Clerk and myself, when it was discovered that the milk was obtained from the Owner of 64 and 65. Retailer warned that he was liable and ordered to take greater care in his future pur- chases.
78 to 87	Assorted	Genuine	
88 89 to 98	Magnesia Assorted	47% Carbonate of Magnesia (unofficial)	Substance enclosed in cardboard boxes, became adulterated owing to exposure in window. Warned to keep future supply in air-tight cases or bottles.
	Milk		m 1
99		16% Fats extracted	Taken from the Owner of Samples 64 and 65 to see if any improvement had
100	Milk	16% Fats extracted	been effected.
101	Milk	Genuine	
102	Milk	13.3% Fats extracted	Samples taken at the Railway Station.
103	Milk	13.3% Fats extracted and 1.1% added water	Retailer ordered to appear before the Town Clerk and myself to explain the poor quality of the milk. Explanation accepted, but warned as to the con-
104 to 123	Assorted	Genuine	sequences if no improvement be effected

No.	No. Nature of Sample. Result of Analysis.		Remarks.
124	Milk	6.6% Fats extracted	Retailer ordered to appear before the Town Clerk and myself to explain poor quality of the milk. Explanation accepted, but warned as to the consequences if no improvement be effected
125	Milk	2% added water	Retailer's attention directed to poor quality of milk, and warned as to the future.
126	Milk	8.3% Fats extracted	Retailer ordered to appear before the Town Clerk and myself to explain the poor quality of the milk. Explanation accepted, but warned as to the con- sequences if no improvement be effected
127 to 134	Assorted	Genuine	
135	Milk	6.66% Fats extracted	Retailer ordered to appear before the Town Clerk and myself to explain poor quality of milk. Explanation accepted, but warned as to the consequences if no improvement be effected.
136 to 138	Milk	Genuine	
139	Milk	16.6% Fats extracted (unofficial)	Sample brought to Office by Retailer who had been previously cautioned. Purchased from Corporation Isolation Farm.
140	Milk	Genuine	
141	Milk	8.3% Fats extracted	Retailer ordered to appear before the Town Clerk and myself to explain the poor quality of the milk. Explanation accepted, but warned as to the conse- quences if no improvement be effected.
142	Milk	Genuine	quenes i no improvement or circura.
143	Milk	11.7% Fats extracted	Do. do.
144	Milk	15% Fats extracted	Do. do.
145 to 147	Milk	Genuine	
148	Milk	15% Fats extracted	Do. do.
149	Milk	Genunie	

No.	Nature of Sample.	Result of Analysis.	Remarks.
150	Milk	11.7% Fats extracted (unofficial)	Sample delivered at office. Farmer offered to change feed of cows.
151	Milk	6.6% Fats extracted	Sample taken at the Railway Station. Retailer ordered to appear before the Town Clerk and myself to explain poor quality of milk. Explanation accepted, but warned as to the consequences if no improvement be effected.
152	Milk	10% Fats extracted	Sample taken at Railway Station. Farmer ordered to appear before the Town
153	Milk	3.3% Fats extracted	Clerk and myself to explain poor quality of milk. Explanation accepted, but warned as to consequences if no im- provement be effected.
154	Milk	16.6% Fats extracted	Do. do.
155 to 170	Assorted	Genuine	
171	Magnesia	58% Carbonic Acid and water (unofficial)	Enclosed in cardboard box. Retailer ordered not to expose same in shop window.
172 to 208	Assorted	Genuine	window.
209	Milk	5% Fats extracted (unofficial)	Sample brought by Superintendent of Nurses' Home, being under the im- pression that their supply was not genuine.
210	Lemon Squash	Genuine	Boundary
211	Milk	6.66% Fats extracted	Same owner as sample 209. I obtained this sample on delivery at the Nurses' Home. Retailer ordered to appear before the Town Clerk and myself to explain poor quality of milk. Explanation accepted, but warned as to consequences if no improvement is effected.
212 to 260	Assorted	Genuine	

No.	Nature of Sample.	Result of Analysis.	Remarks.
261	Milk	10% Fats extracted	Retailer ordered to appear before the Town Clerk and myself to explain the poor quality of the milk. Explanation accepted, but warned as to the consequences if no improvement be effected.
262	Milk	5% Fats extracted	Do. do.
263	Milk	6.66% Fats extracted	Do. do.
264 to 268	Assorted	Genuine	
269	Milk	3.3% Fats extracted	Retailer's attention directed to the poor quality of the milk, and warned as to the consequences should no improve- ment be effected.
. 270	Milk	13.3% Fats extracted	Retailer ordered to appear before the Town Clerk and myself to explain poor quality of milk. Explanation accepted but warned as to the consequences if no improvement is effected in the future.
271 to 275	Assorted	Genume	Tubute.
276	Fresh Sausage	Genuine, but contains 21.18 grns. Boric Acid per lb.	Unofficial
277	Do.	Genuine	Unofficial.
278	Do.	Genuine, but contains 23.18 grns. Boric Acid per lb.	Unofficial.
279 to 290	Assorted	Genuine	
291	Fresh Sausage	Genuine, but contains 16 grns. Boric Acid per lb.	Unofficial.
292	Do.	Genuine, but contains 17.3 grns. Boric Acid per lb.	Unofficial.
293 to 302	Assorted	Genuine	

### DAIRIES, COWSHEDS AND MILKSHOPS.

### Dairies.

Number on Register				 	 9
Applications for Registr	ation			 	 1
	C	OWSHE	DS.		
			-		
Number on Register				 	 17
Number of Cows				 	 114

Two Cowsheds have been closed during the year. One Cowshed floor has been relaid with Cement Concrete, with a suitable channel constructed to carry off the urine.

The whole of the Cowsheds have been limewashed twice during the year, in accordance with the Regulations.

### MILKSHOPS.

Number on Register .				 	475
Number of Applications for	Registrat	tion		 	84
No. of Transfers of Business	3			 	34
Number Closed				 	17
SLAU	JGHTER	-HOUS	ES.		
Number on Register (Public	:) -:-			 	- 1

38

39

Only three of the above are subject to Annual Renewals, the remaining 36 being perpetual Licenses.

Total

(Private)

Do.

PUBLIC SLAUGHTER-HOUSES.

		In	COM	Œ.	Animals Slaughtered.						
Mont	H.	£	s.	d.	Beasts.	SHEEP.	CALVES.	Pigs.	TOTALS		
January		 9	9	8	44	203	8	130	385		
February		 7	2	7	43	161	1	56	261		
March		 6	4	0	40	99	1	52	192		
April		 5	13	10	36	83	3	43	165		
May		 8	9	0	59	109		44	212		
June		 6	9	8	44	145	3	34	226		
July		 8	1	4	47	240	4	42	333		
August		 6	13	0	31	199		34	264		
September		 6	12	8	34	206		38	278		
October		 9	6	9	39	293		93	425		
November		 6	13	6	36	216		41	293		
December		 8	2	1	36	180	1	82	299		
То	tals	£88	18	1	489	2,134	21	689	3,333		

### OFFENSIVE TRADES.

Tripe Boilers	 			 	 7
Tallow Melters	 			 	 2
Tallow Chandler	 			 	 1
Gut Scrapers	 			 	 4
Fat Renderer	 			 	 1
Bone Steamer	 			 	 1
					-
		T	otal	 	 16

The above are regularly inspected, and, as far as the nature of the trades will allow, are kept in a fairly clean condition.

### FRIED FISH SHOPS.

Number on Register	 	 	 	93
Added to Register, 1909	 	 	 	12
Closed during 1909	 	 	 	3

These premises are, as a rule, remarkably well fitted up, and, together with the cooking utensils, are kept scrupulously clean. The materials cooked are of the best quality.

The public now recognise them as a necessity, and we rarely receive a complaint regarding their management.

### INFECTIOUS DISEASE.

During the year 367 cases of Infectious Disease have been notified to the Medical Officer of Health.

Enquiries were made into their cause or origin, necessitating 1,468 visits by your Inspectors.

189 cases were removed to the Sanatorium for treatment.

When the patients are treated in their own homes, a printed List of Instructions to be observed is left at each house; all necessary Sanitary Appliances, Disinfectants and Antiseptic Oils are supplied free, and the rooms, bedding, etc., disinfected immediately upon the recovery or death of the patients.

286 bedrooms have been disinfected.

### COMMON LODGING-HOUSES.

There are 21 Common Lodging-Houses in the Borough, all situated on the North side of the Railway.

The Houses registered contain 172 rooms for sleeping purposes, and afford accommodation for 746 adults and 6 boys nightly.

They have been regularly inspected and kept as far as possible in a clean state.

During the past year the standard of air space has been increased from 250 to 400 cubic feet.

This has reduced the number of Lodgers allowed to be received from 1,026 to 746 and 6 boys.

### HOUSES LET-IN-LODGINGS.

Number on Register	 	 	 	70
Being an increase of	 	 	 	15

The above are principally Houses-let-in-Tenements, and they undoubtedly constitute one of the most difficult problems with which we have to deal.

The tenements are frequently overcrowded by persons of dirty and thriftless habits, and, as the occupiers are constantly moving from one part of the town to another, it is exceedingly difficult to follow them and enforce the Regulations.

All Houses Let-in-Lodgings are inspected frequently by both Inspectors and Health Visitors.

### COLLECTION OF NIGHTSOIL AND OTHER REFUSE.

MONTH.		Total Loads Collected.	Barged to Sea.	Sold to Farmers and others	Amount Realized.	Trips to Sea.	Bags of Paper and Light Refuse.	
						£ s. d.		
January			4,585	1,339	94	109 3 4	4	5,552
February			3,594	1,624	1,834	233 7 0	4	4,448
March			3,466	2,606	745	248 12 4	6	4,438
April			3,485	3,258	659	195 19 5	8	4,489
May			4,375	2,193	1,526	82 12 11	6	5,583
June			3,368	1,180	1,674	119 8 9	2	4,440
July			4,040	2,783	766	201 11 0	7	5,480
August			3,340	1,324	1,221		4	4,382
September			3,335	3,937	1,011	210 9 6	8	4,471
October			4,236	3,481	758		10	5,472
November			3,390	3,244	882	183 6 11	11	4,516
December			3,535	2,387	1,297	102 10 0	8	4,491
Totals			44,749	29,356	12,467	1,687 1 2	78	57,762

### SMOKE OBSERVATIONS, 1909.

During the past year 128 Observations have been taken from 25 Chimneys. 5 of these chimneys exceeded the time limit of 10 minutes' black smoke per hour. Eleven observations were taken from the boiler-houses in company with the stokers. In 5 cases, Stokers were interviewed, cautioned and advised; 5 interviews have also taken place between the Managers, Engineers and your Inspector regarding excessive emissions of black smoke. Every attention has been given to the matter and care taken with regard to stoking, in order to minimise the same as far as possible.

In conclusion, I take the opportunity of stating that all the Inspectors have worked well, loyal to each other, myself and the Committee they serve. They have discharged the oft-times difficult and dangerous duties imposed by the Public Health Acts with tact and efficiency, particularly so does this apply to the Senior Inspector, Mr. T. McDonald, who has rendered ready and willing assistance at all times.

I am, Gentlemen,
Your obedient Servant,
GEORGE H. ANDERSON,
Chief Sanitary Inspector.

### APPENDIX.

## Report on the Treatment of Consumption at the Hemlington Hospital during the Summer of 1909.

CLEVELAND LODGE, FEBRUARY, 1910.

Gentlemen,—As I undertook the examination of patients for admission to the Hemlington Hospital for the summer of 1909, and also their supervision while they were there, it is incumbent upon me to offer a few remarks.

Thirty patients were admitted, and of these one died in Hospital from Hæmorrhage, eight made no substantial improvement, eight improved, eleven showed great improvement, and two were cured.

Some of the cases were in a very indifferent condition when admitted, but it was such an obvious advantage to themselves, their families and the community, to get them away from their homes where they were spreading infection, that they were admitted, when otherwise they should have been provided for elsewhere. Consequently the second season of our experimental Consumptive Hospital has been a rather unfortunate one. In the first place, we had cold, wet weather during the greater part of the time, and this year having been devoted to the relief of men, has not given such successful results as we had during the previous year when women were treated. It is true that some of the cases were rather unpromising from the beginning, their illness being too advanced to hope for more than the relief of symptoms and general temporary improvement, yet in all but two or three acute cases there was a remarkable response to the change of air, good and suitable food and regular habits. Nearly all showed immediate improvement, they began to gain in weight and to cough and expectorate less; they were also for the most part cheerful, and were pleased and thankful at having such good quarters and nursing.

It is very difficult to establish a complete comparison between the results of the treatment of the women in 1908 and the men in 1909, for so many of them have not reported themselves—these having changed their address cannot be found.

Dr. Dingle and I, however, are of opinion that the women did much better than the men, though it must be admitted that the women had a great advantage in the season, the summer of 1908 being warm and dry, while that of 1909 was cold and wet. The Hospital is beautifully situated in an elevated position, amidst air which is stimulating and refreshing. In fine weather the conditions are perfect, but in wet and cold weather they leave much to be desired.

During their residence, a proportion of the men were set to do light work, such as hay making, and some did odd jobs about the Hospital Grounds. Nearly all took regular exercise, and those not able to do so spent their time in shelters, where they had every comfort. Many of them returned to work when they left the Hospital, but it is sad to relate that eight of them died since they returned to their homes.

We are driven to the conclusion that, however great the general advantages are of running the Hospital for four months in the summer, the time is too short to rely upon a cure being effected even in mild cases.

The question which the Committee has now to consider is whether steps can be taken to provide accommodation which would enable the treatment to be continued for a longer period. My own recommendation would be to open the Hospital again this next summer for women and children, and to then consider a scheme of a more permanent nature.

I have no doubt that a permanent Hospital would, in a few years, clear the town of the great bulk of Tubercular Diseases of the Lungs, but I do not think it can be done at Hemlington without the expenditure of a good deal of money and the installation of a resident Staff. This would open up a large question in the consideration of which we ought to invite the co-operation of the Board of Guardians.

JOHN HEDLEY.

To the Chairman and Members of the Committee of Management.

Gentlemen,—For the second year in succession cases of Pulmonary Tuberculosis have been treated, on the open-air principle, at the Corporation Hospitals at Hemlington. During the summer of 1908 there were 24 women admitted, and last summer 30 men and boys.

The arrangements made for Medical examination and treatment of the cases, and also for the staffing of the Hospital, were similar to those of the previous year.

The Committee of Management are greatly indebted to all the Medical Practitioners of the town who so willingly consented to act as Visiting Physicians for a period of one week each.

The Hospital was opened on May 10th, and closed, owing to the very inclement weather then being experienced, on September 30th, during which period 30 men and boys were admitted, the average length of residence being 67.5 days.

The results of the treatment of these cases has not been altogether favourable from a curative point of view, as already 8, or 26.6 per cent., of these cases have terminated fatally. There are, however, some who have derived great benefit from their residence at the Hospital, and who are in a fair way to complete recovery. From the experience gained from last year's admissions, it is found that men suffering from Phthisis do not cease to follow their employment until they are compelled to do so owing to their great weakness and prostration. By the time they seek medical advice, the disease is far advanced and they are not suitable cases for the open-air treatment.

The following Table gives a summary of the cases admitted and the results of the treatment, both at the time of leaving the Hospital and also at the end of the year 1909.

The Balance Sheet shows that the total cost of treatment and maintenance during the summer was £238, or about £8 per head, the average length of residence being over two months.

Yours faithfully,
CHARLES V. DINGLE, M.D.,
Hon. Secretary.

Case	Age	Length of Residence in Hospital	Condition on Admission	Condition on Discharge	Increase or Decrease in Weight	General Remarks
J.D.	34	31 days	Temperature 102°; dry cough; dullness both apices	No improvement; temperature high sent home as un- suitable case, died 4 months after discharge.	gained 2½lbs.	Labourer. Had been ill six weeks before admission.
J.McM.	26	142 ,,	Temperature normal, dullness and moist rales on both sides, crepitation and fric- tion sounds on left side of lungs.	Conditions improved.	,, 6lbs.	Posèman. Ill two months.
J.V.	29	140 ,,	Temperature normal, losing flesh, dull- ness and increased vocal resonance at right apex of lungs.	Conditions improved, slight cough.	,, 114bs.	Police Consta- ble. Ill six months.
w.w.	44	24 "	Shortness of breath and cough, dullness and moist rales left apex; Hæmorrha-	Died in Hospital from Pulmonary Hæmorrhage.	Lost 1½lbs.	Caretaker (Church and School). Ill 2 years.
J.A.	35	93 ,,	ges. Temperature 99°; loss of voice, cough, moist rales in right lung; Tubercle- bacilli isolated in	Slight cough, no moist rales.	Gained 16lbs.	Steelworker. Ill two months
R.B.	38	139 ,,	sputum.  Hæmorrhages from lungs, losing flesh; temperature normal moist crepitations and rales left apex.	Greatly improved.	,, 13lbs.	Ship's Steward Ill 2 months.
w.w.	11	134 ,,	Temperature 99°; dullness and rales in both apices; Cough and expec- toration, very thin.	Left lung still affected, right lung healed. Con- dition greatly im- proved.	,, 7½lbs.	School boy. Ill 3 months.

Case	Age	Length of Residence in Hospital	Condition on Admission	Condition on Discharge	Increase or Decrease in Weight	General Remarks
J.M.	34	64 days	Temperature normal, slight cough and ex- pectoration, a little dullness and increas- ed vocal resonance in right apex.	Short of breath on exertion. General improvement.	gained 13lbs.	Furnaceman, Ill 3 years.
J.P.	59	29 ,,	Temperature normal, cough and pain in chest, great short- ness of breath, rales left side of chest.	Temperature increased; some pneumonia. Sent home as unsuitable case. Died 1 month after discharge.	,, 8½lbs.	Labourer. Ill 9 months
A.B.	15	127 ,,	Temperature 100°; Cough and weakness crepitations right apex.	Very little expec- toration or cough. General condition improved.	,, 13lbs.	Errand boy. Ill 3 months
T.M	37	76 ,,	Temperature normal Crepitations and in- creased vocal reson- ance in right apex, dullness in left apex, cough and sweats.	No abnormal sound in lungs.	,, 12½lbs.	Wireworker. Ill 3 months
G.B.	38	70 ,,	Temperature normal, dullness and in- ereased vocal reson- ance in left apex; blood-stained spu- tum.	No abnormal sound in lungs. Made steady improve- ment.	,, 20½lbs.	Ironworker, Rolling Mills Two years il
W.P.	40	54 ,,	Temperature 100°; Crepitations both lungs, cough and expectoration.	No improvement, disease in left lung increasing.	Lost älb.	Shipyard Plater. Ill 6 months
T.S.	38	67 ,,	Temperature normal, dullness left apex; night sweats, cough and expectoration.	Lung condition greatly improved, no dullness, no ex- pectoration. Died suddenly shortly after he resumed his work.	Gained 6lbs.	Fireman. Ill 18 months

Case	Age	Length of Residence in Hospital	Condition on Admission	Condition on Discharge	Increase or Decrease in Weight	General Remarks
G.R.	47	111 days	Temperature normal, crepitations and dullness both apices, had had slight hæmorrhages and cough.	Improved; still some crackling sounds in left apex at back.	gained 15lbs.	Tailor. Ill two years.
W.C.	40	8 ,,	Temperature 103°; left lung dull and crepitant, cough.	Sent to Union Hospital as un- suitable. Died in few days.	Too ill to be weighed	Steel Furnace- man. Ill 4 months.
T.J.	39	63 ,,	Temperature normal, tubercle bacilli isolated in sputum, dullness and rales in left apex, cough and night sweats.	Very much im- proved and lung sounds normal.	Gained 3½lbs.	Furnaceman. Ill 3 months.
P.McE.	29	60 ,,	Temperature normal, dullness and crepita- cations right apex in front; cough, night sweats and expectoration.	Very much im- proved, very slight cough; chest sounds nearly nor- mal.	,, 18lbs.	Rail Loader. Ill 1 year.
T.G.	38	89 ,,	Temperature 101°; emaciated, dry hack- ing cough, moist crepitations right apex back and front.	No improvement. Died 3 months after discharge.	Lost 8½lbs.	Labourer.
T.B.	.14	70 ,,	Temperature 99°; dullness and crepi- tations left upper lobe of lung, cough and expectoration.	Making considera- ble progress to recovery, left apex still affected.	Gained 7lbs.	School boy. Ill 6 months.
A.N.	16	69 ,,	Temperature normal, dullness and crepi- tations right apex, back and front; blood-stained ex- pectoration.	Chest sounds nor- mal, heart hyper- trophied and action rapid.	,, 10 <sup>3</sup> / <sub>4</sub> lbs.	Labouring work. Ill 6 months.

	1	Length of			Increase or	
Case	Age	Residence in Hospital	Condition on Admission	Condition on Discharge	Decrease in Weight	General Remarks
J.H.	22	45 days	Temperature 101°; cavities in lungs; crepitations, profuse night sweats and diarrhœa.	Sent home as un- suitable. Died in Union Hospital one month after.	Too ill to be weighed	Had been in Navy.
T.W.	28	44 ,,	Temperature normal, slight crepitations in both apices, some emphysema, cough and expectoration.	Appeared to be quite recovered.	Gained 16 lbs.	Labourer.
J.F.	34	56 ,,	Temperature normal, crepitations, in- creased vocal reson- ance and Bronchial breathing at right apex.	Not much improved cough trouble- some.	,, 1½lbs.	Stoker. Ill 10 months
G.L.	28	47 ,,	Temperature normal, dullness and crepi- tations both apices, cough and expec- toration.	Greatly improved. Dullness diminished and no crepita- tions in lungs.	,, ålbs.	Machinist at Westgarth's. Ill 6 months
M.C.	20	42 ,,	Temperature 101°; dullness and crepi- tations and moist rales in left apex; cough and loss of weight.	No improvement; greater part of left lung being in- volved. Died two months afterwards		Labourer. Ill for some months
G.J.	24	42 ,,	Temperature 100°. dullness and increased vocal resonance back and front of right apex.	Very much improved. Temp. not quite normal.	,, 11 <sup>2</sup> 4lbs.	Blacksmith. Ill 2 months
W.B.	18	32 ,,	Temperature 99°; dullness and crepi- tations back and front right apex; cough, weakness and loss of weight.	Slight improve- ment, right apex still unsatisfactory	,, 6½lbs.	Gardener. Ill 2 months
J.P.	17	23 ,,	Temperature normal, had had slight hæmorrhage; dull- ness and increased vocal resonance right apex.	General health improved.	,, 5½lbs.	Labourer. Ill about a fortnight.
C.L.	37	34 ,,	Temperature normal, cough and expector- ation, dullness and crepitations right apex, blood-stained sputum.	Slightly improved. Gained weight rapidly.	,, 9½lbs.	Labourer. Steelworks. Ill 3 months

The following presented themselves for re-examination at the end of the year :-

- J.McM. Has maintained the improvement of his lungs, there being increased breathing sounds. Was 10 stones on discharge, now weighs 9 stones 6 lbs.
- R.B. Contracted an attack of pleurisy shortly after leaving Hospital, was able to get about again in a week, and remained quite well for about ten days when he had a severe hæmorrhage. Has not had any hæmorrhage since, but is very weak and keeps in bed.
- J.M. Has a cough, increased vocal resonance in both apices and slight crepitations. Weighed 9 stones 13 lbs. when he left Hospital, now weighs 9 stones 2 lbs.
- G.B. Lungs in good condition. Weighed 11 stones 3 lbs. when discharged from Hospital, now weighs 10 stones 3 lbs. Has been unable to get work.
- W.P. This man is now very ill and not expected to live long.
- G.R. Has very little cough and no expectoration; appetite good; has light work. Weighed 9 stones 11 lbs. when discharged, now weighs 9 stones.
- T.J. Has not been so well lately, is thin and short of breath; cough in morning with a little expectoration, had a slight hæmorrhage. Is working, but not likely to continue for long.
- T.B. Lungs in good condition. Weighed 5 stones 1 lb. on discharge, now weighs 4 stones 11½ lbs.
- T.W. Chest emphysematous, but condition otherwise good. Weighed 10 stones 8 lbs. on discharge, now weighs 9 stones 8 lbs.
- J.F. Right apex dull and increased vocal resonance with some rales; left apex fair. Weighed 10 stones 4 lbs. when discharged, now weighs 9 stones 10 lbs.
- W.B. Has been very well since his discharge. Had slight blood-stained expectoration once. Weighed 6 stones 6 lbs. when discharged, now weighs 6 stones 7 lbs.
- J.P. Has been at work 5 weeks. No cough, appetite good.

### HEMLINGTON CONSUMPTION HOSPITAL.

### Statement of Receipts and Expenditure.

Receipts.		_	-	Expenditure	0					_
Receipts.			Re	Corporation Grant.						
	£	8.	d.	our portation distant.	£	s. d.	£	s.	d.	
To Grant	250		0	By May Accounts	59	6 3				
,, Subscriptions from					41					
Sir B. Samuelson		7			48	19 6	1			
& Co. for Main-						0 10	T-			
tenance of Patient	2	0	0		45	7 7				
				_			238	2	1	
	£252	0	0	"Balance			13	17	11	
		_	=						-	
							£252	0	0	
To Balance	£13	17	11				_	-	-	
				Private Account.						
		s.						s.		
Brought forward from 190	8 22	16	9	By Disinfection of Hospita			1			
Sir B. Samuelson & Co.			1000	,, Balance			96	12	9	
(Annual Contribution)	10									
Patients' Subscriptions	64	16	0							
		-	_				000	0	-	
	£98	2	9				£98	2	9	1
							-	1	2000	
Balance (Private A/c.)	£96	12	9	The second second	-			400	100	-