[Report 1905] / Medical Officer of Health, Middlesbrough County Borough.

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1905

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County

Borough of



Middlesbrough.

HEALTH DEPARTMENT.

ANNUAL REPORTS

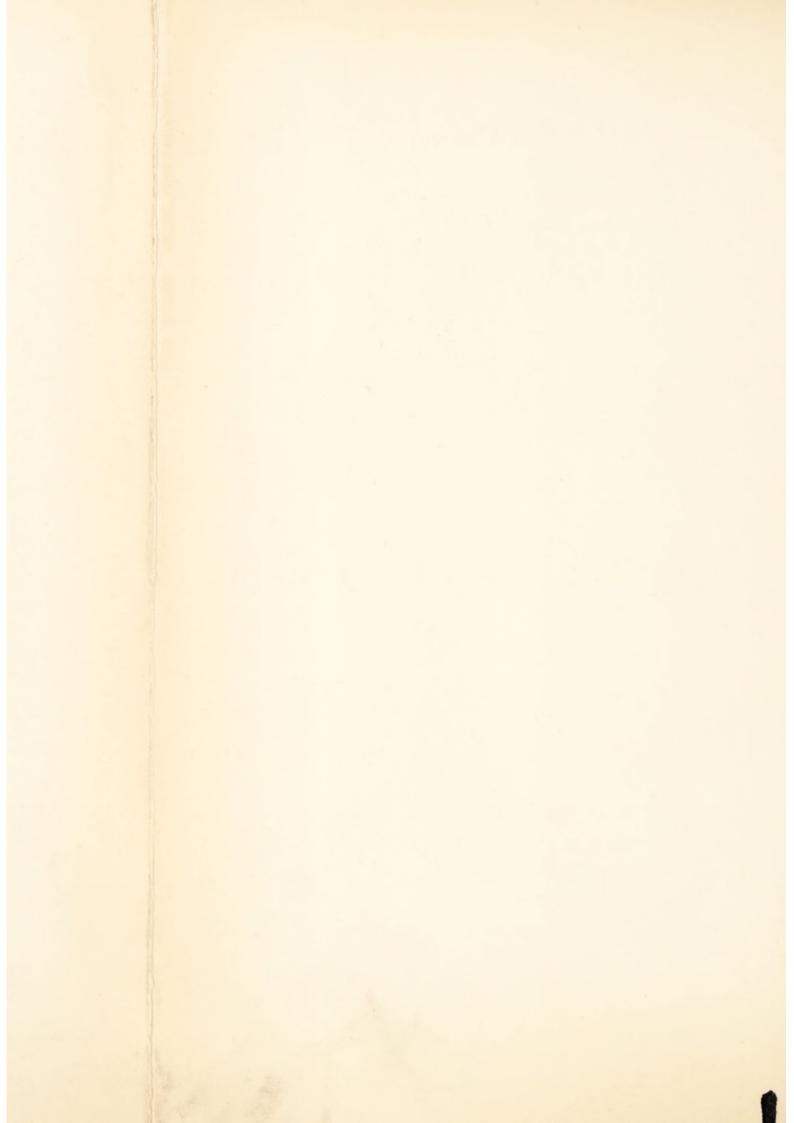
AND

VITAL STATISTICS

FOR THE YEAR

1905.

MIDDLESBROUGH:
JORDISON & CO., LD., PRINTERS, &C.



County Borough of Middlesbrough.

Sanitary and Sanatorium Committees.

HIS WORSHIP THE MAYOR (COUNCILLOR T. RODDAM DENT).

ALDERMAN SIR SAMUEL A. SADLER (Chairman).

Councillor A. Mattison (Vice-Chairman).

Alderman R. Archibald, J.P.

W. J. Bruce, J.P.

,, J. Forbes, J.P.

.. A. Hinton, J.P.

,, John Hedley, M.D., J.P.

J. McLauchlan, J.P. (Chairman of Sanatorium Committee).

J. F. Wilson, J.P.

Commo	villor.	A 10	Allison.
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Councillor J. Johnson.

J. Baines.

,, J. Loughran.

J. Calvert.

A. Main.

G. Carey.

, R. Mascall.

E. Cone.

,, W. Meggeson.

, P. Considine, B.A., M.B.

,, J. Pannell.

J. Crombie.

,, E. Pilkington.

J. Dawson.

,, T. G. Poole.

T. Dodgson.

,, J. Reveley.

,, F. Dodsworth.

,, W. Roberts.

,, C. Dorman, J.P.

,, J. Robinson.

., W. Harkess.

,, M. Roddy.

,, T. Hornung.

,, W. T. Thomson.

, J. Jackson.

G. Wycherley.

Sanitary Sub-Committee.

Alderman Sir S. A. Sadler.

Councillor A. Mattison.

R. Archibald.

. A. E. Allison.

.. J. Forbes.

.. W G. Roberts

.. W. Bruce.

A. Main.

Councillor W. T. Thomson.

Medical Officer of Health and Superintendent of Fever Hospitals.

CHARLES V. DINGLE, M.D., B.Hy., D.P.H.

Sanitary Staff.

Chief Sanitary Inspector:

Mr. GEORGE H. ANDERSON, Assoc. San. Inst.

Assistant Sanitary Inspectors:

THOMAS McDONALD.

A. W. LUCAS, C.S.I.

W. SMITH, C.S.I.

H. WATSON, C.S.I.

G. BULMER, C.S.I.

CLERK :

JUNIOR CLERK.

J. W. RAWDON.

J. DODSWORTH.

Health Visitors:

MRS. L. YOUNG.

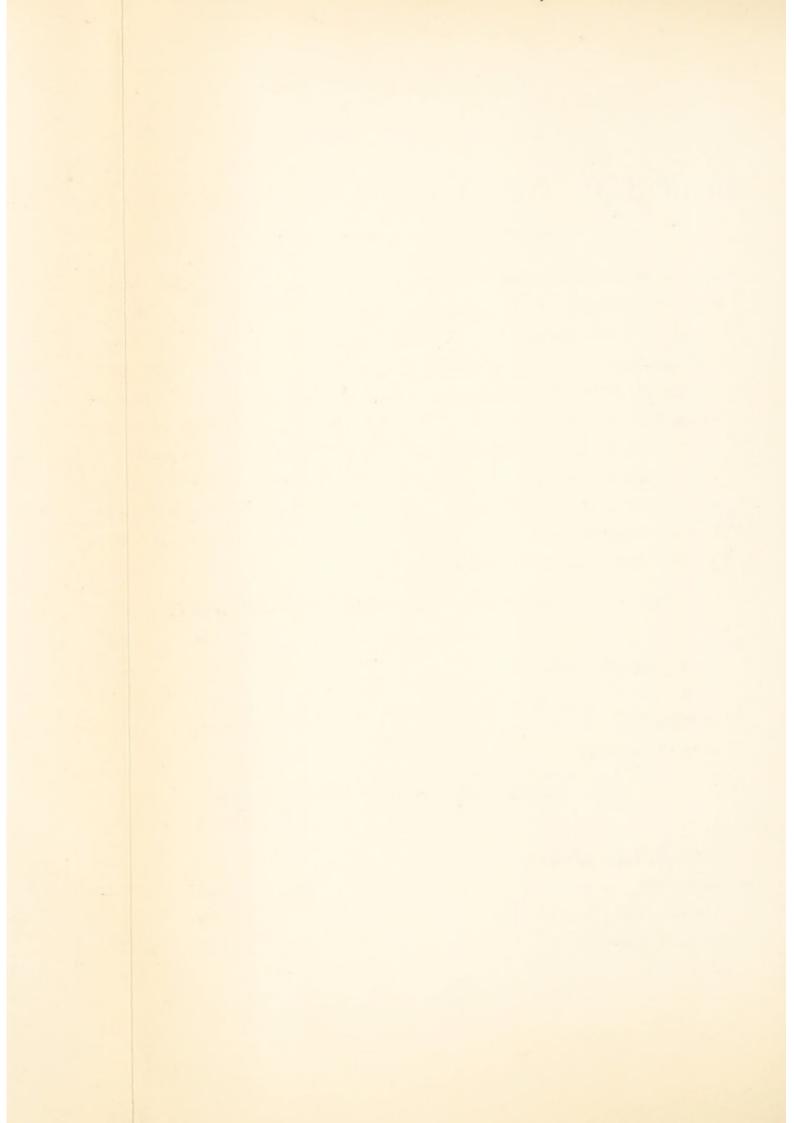
MISS M. STAPLES.

Matron of the Sanatorium and Small-Pox Hospitals :
MISS M. WEBB.

Foreman Inspector of Scavengers : G. STEVENSON.

Borough of Middlesbrough, 1905.

Area of Municipal Borough					. 2,824	Acres
Number of Houses					2	0,397
Length of Public Streets					49	Miles
Rateable Value					£35	4,349
Population (Estimated 1905)					9	8,369
Death Rate for 1905					21.00 per	1,000
Average Death Rate for 10 years					21-24 per	1,000
Birth Rate for 1905					34.9 per	1,000
Average Birth Rate for 10 years					34.67 per	1,000
Zymotic Death Rate					2.8 per	1,000
Infantile Deaths per 1,000 Births						174
MORTALITY STATISTICS	FOR	FNG	LAND	AND	WAIFS	
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MORTALITY STATISTICS	FOR	ENG	LAND	AND	WALES. 1904	1905
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Death Rate per 1,000 Birth Rate ,, Zymotic Rate ,, Infantile Mortality					1904 16·2 27·9 1·94 146	15·2 27·2 1·5 128
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	Towns.	76 Towns 75 Provincial Town	London Croydon Croydon Horrasy Horrasy Tottechan West Ham East Ham East Ham East Ham Barghon Pathamstow Raddhon Portsmouth Bournemouth Reading Reading Constitution Ipswich Corest Varmouth Corest Armouth	Plymouth Devonport. Handle Handle Handle Handle Handle Woleerlampton Woleerlampton Wolsell Handsworth Handsworth Handsworth Rimmingham Eirmingham Sing Norton Sonethwick Sonethwick Coventy Leicester Leicester Coventy Leicester Le	Stockport Barfeenbead Walkassy Liverpool Bootle St. Helens Warnigton Bury Bury Marchester Salfoot Goldham Rechtale Burnley Rachburn Rechtale Burnley Riackburn Rachburn Rachbu	Huddensfield Haddinx Bradion B

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To the Chairman (Sir Samuel A. Sadler) and Members of the Sanitary Committee of the Corporation of the County Borough of Middlesbrough.

Gentlemen.

I have the honour to submit my Eighth Annual Report on the Health and Sanitary Condition of the County Borough of Middlesbrough, viz:—that for the year ending December 31st, 1905.

The improvement in the death rate which was recorded during the year 1904 has not been maintained, the rate having increased from 19.94 to 21.00 per 1,000 of the population, and for the first time for many years there has been a decided fall in the birth rate in the Borough, which has declined from 37.12 in 1904 to 34.91.

The more favourable aspects of the year's mortality statistics are a slightly reduced death rate North of the Railway and a similar reduction in the number of infantile deaths—due partly no doubt to the reduction in the number of births.

The mortality during the first quarter of the year 1905 was very great and affected all age periods equally, the health of the Borough improved month by month during the year, the last quarter's returns being very favourable.

The Marsh, Newport, Cannon and Vulcan Wards invariably have the highest death rates, and with these four exceptions the average death rates in the Wards during the past year have not been unfavourable. The influence of the birth rate on the general death rate can be seen from an examination of the Tables on pages 7 and 9.

A high birth rate, namely, 42:47, in the Ayresome Ward produced the comparatively low infantile death rate of 131 per 1,000 births, whereas, in the Cannon Ward a lower birth rate produced an infantile death rate of 242 per 1,000 births.

The infantile death rate is apparently the chief factor in the causation of the high death rates in the above four Wards, and it is to an improvement in this respect that we must look for a reduction of the general death rate of the Borough.

There was a very considerable reduction in the number of notifiable Infectious Diseases during the past year, especially in the number of cases of Scarlet Fever. Of the non-notifiable Infectious Diseases, Measles and Whooping Cough were very prevalent and fatal, there being 71 fatal cases of Measles and 43 of Whooping Cough, nearly twice the number of deaths from these two causes than from the whole of the notifiable diseases.

Diseases of the Respiratory System continued to be the cause of the greatest number of deaths, contributing 25 per cent. of the total deaths during the past year.

Tubercular Diseases.—These do not show any decided increase, the proportion of deaths from these causes is greatest in the district North of the Railway, and is, I feel sure, largely contributed to by the habit of sleeping in small, unventilated, dark, and often damp, bed places.

Housing of the Working Classes Acts.—13 houses were reported upon during the year, and of these 4 were demolished, 3 were re-constructed, and the remainder were repaired and made habitable.

Legal Proceedings were taken for the demolition of Nos. 10 and 12, Hilda Place, the case being dismissed on the undertaking of the owner to put them into habitable repair.

The difficulty of producing sufficient evidence to convince the Court that it is not possible to put a house into habitable repair is very great, and is likely to be a great hindrance in dealing with this class of property. The repairs usually carried out are of a very temporary character and are far from being satisfactory, and in the future it would be more advisable to apply for a Closing Order and allow the houses to remain empty.

The proposed scheme for the reconstruction of the Nile Street Area has received careful consideration during the past year, but no definite action has been agreed upon. In the event of the present scheme not being adopted, I hope that another scheme may be devised for improving this deplorable area.

The Midwives' Act.—There are 22 Certified and Registered Midwives practising in the Borough of Middlesbrough. During the past year the practice of these Midwives has been carefully supervised.

A special inquiry has been made whenever a Still-born birth was reported, in the majority of these cases it is found that the mother had met with a fall or some other accident during her pregnancy.

Health Visitors.—During the past year the house-to-house visiting has been confined principally to the 4 Wards, Newport, Cannon, Marsh and Vulcan, in which the death rates and especially the infantile mortality rates are generally much higher than those of the remaining Wards. It has been stated that the employment of Health Visitors by municipalities is an unnecessary and unwarranted interference with the domestic affairs of the citizens, but such an opinion is due to the lack of knowledge as to the conditions which are found to exist in many of the homes of the poorer inhabitants. My opinion is that one of the main chances of lowering the infantile and general death rate of this Borough rests upon a thorough and systematic

visiting of the homes of the residents in the four above-named Wards. In support of this view I would point out the fact that the infantile mortality in Huddersfield, after a year of special supervision of the homes of the people, is the lowest on record in that town and equal to that of Rural England, being 119 per 1,000 births, compared with a rate of 242 per 1,000 births in the Cannon Ward of this Borough.

Brief summary of the chief Sanitary matters dealt with during 1905 :-

January.—Polluted Well at Linthorpe used for drinking purposes ordered to be closed.

The Borough Surveyor ordered to prepare a Scheme for the re-arrangement of the Nile Street Area.

Houses in Albion Place and Hatherley Street, Hardman Street, Marsh Street, and Goschen Street dealt with.

Ordered that, where the Plans show that the Pan Closet cannot be emptied from the back passage, Water Closets be provided.

February.—The Sanitary arrangements of the Model Houses in Station Street condemned. Ordered that these be put into a more Sanitary condition.

April.—Ordered that the sum of £200 be expended in converting Privies into Pan Closets.

Completion of Pumping Station at Cargo Fleet Outfall.

May.—Closing Order applied for in the case of 10 and 12, Hilda Place.

Midwives' Act.—Adoption of Rules for regulating the practice of Midwives in the Borough.

Water Supply to Tenement Houses.—Ordered that the Owners be asked to provide a more plentiful supply.

July.—Discussion on the Plans of the Nile Street Area. Ordered that the Plans be approved.

Plans for Nile Street Area referred back by the Council to the Committee for further consideration.

* Marton Valley Beck Sewer reported completed.

August.—14 Houses certified and placed on the Register as being Houses let in Lodgings.

September .- Loan applied for the Tees Valley Sewer.

December.—Two Health Visitors appointed.

STATISTICS RELATING TO BIRTHS, DEATHS, CAUSES OF DEATH, ZYMOTIC DISEASES, &c.

Death rates.—During the 52 weeks ending December 31st, 1905, there were 2,066 deaths registered as having occurred in the County Borough of Middlesbrough, representing a death rate of 21.00 per 1,000 of the population, the estimated population being 98,369.

The number of non-residents who died in the Borough during the year was 46, and of residents who died outside the Borough, 63; allowing for these, a death rate of 21.18 per 1,000 of the population represents the corrected rate for the year 1905.

The following have been the death rates during the past 10 years :-

1896	 19.64		1901	 21.84	*21.90
1897	 19.16		1902	 20.48	*20.48
1898	 21.77		1903	 21.80	*21.77
1899	 22.00		1904	 19.94	*20.00
1900	 24.81	25.07	1905	 21.00	*21.18

* Corrected death rates.

The average death rate for these years being 21.24 per 1,000.

Death rates in the Districts.—The following deaths occurred in the various districts into which the town is divided for statistical purposes, viz.:—

North of the Railway . . 327 deaths, equal to a death rate of 21.59 per 1,000 East of Linthorpe Road . . 476 deaths, equal to a death rate of 14.94 per 1,000 West of Linthorpe Road . . 972 deaths, equal to a death rate of 18.90 per 1,000 In previous years the death rates in these districts were :—

	1901	1902	1903	1904
			_	
North of the Railway	 23.38	21.32	22.38	24.23 per 1,000
East of Linthorpe Road	 15.64	16.02	15.62	14:71
West of Linthorpe Road	 19.62	16.57	19.77	15.48 ,,

The corrected death rates for the districts (i.e., including the deaths registered as having occurred in the districts together with deaths of persons belonging thereto but dying outside the Borough, and also deaths of persons removed from the various districts and dying in Public Institutions in the Borough, and eliminating all deaths of non-residents), were:—

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1902	1903	1904	1905
North of the Railway	 	28.3	29.9	32.6	29.4
East of Linthorpe Road	 	17.8	17.0	16.6	16.8
West of Linthorpe Road	 	19.6	22.2	18.2	21.4

Table I. gives the uncorrected death rates in the various districts for the past 21 years.

Quarterly Deaths.—The following were the number of deaths and the death rates during the four quarters of the year, 1905.

1st Quarter		Total deaths	601, eq	ual to a	-	24.43 per 1,000 per annum		
2nd	,,		,,	540	,,	,,	21.95	.,
3rd	,,		,,	471	,,	,,	19.15	,,
4th	,,		,,	454	,,	,,	18.45	,,

The quarterly death rates in the various districts during 1905 were :-

	Death Rates per 1,000 population.										
DISTRICTS.	1st quarter.		2nd quarter.		3rd quarter.		4th quarter.				
	No. of Deaths	Death Rate	No. of Deaths	Death Rate	No. of Deaths	Death Rate	No. of Deaths	Death Rate			
North of the Railway	91	24.03	85	22.45	86	22.71	65	17:17			
East of Linthorpe Road	148	18.59	116	14:57	95	11.93	117	14.69			
West of Linthorpe Road	281	21.87	268	20.86	220	17.12	203	15.80			

Of the 2,066 deaths registered in the Borough during 1905 :-

327 occurred North of the Railway.

1,739 occurred South of the Railway.

The death rate for the year North of the Railway being 21.59 per 1,000 ... South ... 20.89 ...

and the corrected death rates for these districts being :-

North of the Railway 29.45 per 1,000 South ,, ,, 19.66 ,,

Mortality at different Age Periods.—The 2,066 deaths occurred at the following age periods:—

Under 1 year of age	 598 d	eaths, be	eing equal	to 28·46 p	er cent. of the total deaths.
1 and under 5 years of age	 383	,,	23	18.53	,,
5 and under 10 years of age	 59	,,	2.2	2.85	,,
10 and under 15 years of age	 21	33	33	1.01	,,
15 and under 25 years of age	 96	,,	,,	4.64	,,
25 and under 65 years of age	 629	,,	,,	30.44	.,
65 years of age and over	 280	,,	,,	13.55	,,

The following Table compares these rates for the past 8 years :-

Ages.		Percentag	ges of deat	ths at vari	ous ages t	o total de	aths.	
	1898	1899	1900	1901	1902	1903	1904	1905
Under 1 year	28.77	27.93	27.51	32.93	32.21	31.37	31.74	28.46
1 year and under 5	16.21	17.93	12.83	18.89	16.68	18.29	15.81	18.53
5 years and under 10	2.8	2.5	2.3	2.3	3.5	2.6	2.5	2.85
10 years and under 15	1.9	1.1	0.8	1.4	1.4	1.4	1.9	1.01
15 years and under 25	6.1	4.9	5.4	4.5	4.4	4.8	4.2	4.62
25 years and under 65	29.8	29.7	31.2	28.9	29.2	29.8	29.2	30.44
65 years and over	14.2	15.3	20.0	10.9	11.8	11.5	14.5	13.55

The percentage of deaths at the various age periods to total deaths in the various districts during 1905 :—

A Paragraph	-		Percentage of deaths at various age periods to total deaths in district.						
Age Periods.			East of Linthorpe Road.	West of Linthorpe Road.	North of the Railway				
Under l year		 	27.3	34.3	32.3				
l and under 5 years		 	16.3	22.9	18.6				
5 and under 10 years		 	1.4	3.1	2.3				
10 and under 15 years		 	1.2	.8	.6				
15 and under 25 years		 	4.2	5.1	3.9				
25 and under 65 years		 	30.4	24.2	35.4				
65 years and over		 	18.9	9.2	6.4				

The monthly death rates per 1,000 of the estimated population in the various Wards of the Borough for the year 1905 were as follows:—

Wards.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Ayresome	 21.33	25.93	20.46	30.22	12.43	15.85	9.51	12.44	16.60	13.87	19-65	13.12
Acklam	 29.28	29.16	15.95	10.59	18-69	10.59	14.20	13.08	19.69	21.93	15.07	14.57
Cannon	 40.47	20.06	18.16	25.99	27.89	33.11	19.46	26.47	20.18	18.16	30.27	20.89
Cleveland	 25.56	15.90	20.80	16.45	14.27	16.45	20.80	15.90	21.48	15.90	18.08	19.16
Exchange	 25.67	18.98	21.41	10.34	27.13	26.64	7.05	17.15	14.72	8.51	16.18	17:15
Grove Hill	 21.57	16.90	13.46	14.84	11.70	17.67	9.86	10.78	15.76	16.14	11.16	16.14
Linthorpe	 24.19	11.71	22.64	12.48	16.60	14.02	7.46	10.55	18.78	18.14	15.57	9.00
Marsh	 38.95	27.53	24.86	24.59	43.29	17.86	19.43	36.83	35.91	32.50	17.77	25.87
Newport	 26.64	30.78	27.82	40.75	32.46	23.96	20.82	39.46	21.21	23.18	20.32	20.82
Vulcan	 33.23	30.40	33.23	22.40	21.66	26.95	27.44	27.44	14.89	18.83	16.37	18.83

The average death rates per annum for these Wards during the past four years being :—

		1902	1903	1904	1905
			_		_
Ayresome		 15.07	17.48	14.08	17.61
Acklam		 16.28	20.67	14.84	17.73
Cannon		 22.84	27.27	22.28	25.09
Cleveland		 18.86	19.66	14.63	18.39
Exchange		 19.56	20.18	17:71	17.57
Grove Hill		 13.33	13.35	13.28	14.66
Linthorpe		 15.50	14.09	17.59	15.09
Marsh		 28.69	29.06	33.49	28.78
Newport		 25.87	27.18	24.14	27.35
Vulcan	.,	 23.61	25.76	24.07	24.30

Births—During the year 1905, 3,435 births were registered in the Borough, being equal to a birth rate of 34.91 per 1,000 of the population.

Of the 3,435 births, 1,804 were males and 1,631 were females.

The natural increase, i.e., the excess of births over deaths, during the year 1905 being 1,369. During the previous year the natural increase was 1,661.

The following have been the birth rates during the past 10 years :-

1896	 31.70	1901	 36.44
1897	 33.35	1902	 36.09
1898	 32.52	1903	 36.72
1899	 33.47	1904	 37.12
1900	 34.46	1905	 34.91

The average birth rate for these years being 34.67.

The 3,435 births occurred in the following Wards:—

The Monthly Births in the various Wards during the year 1905.

Wards.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals.
Ayresome	 66	46	58	50	57	56	58	53	68	60	46	65	683
Acklam	 21	17	21	18	30	26	19	29	26	28	16	27	278
Cannon	 28	26	32	11	37	18	24	26	23	16	16	23	280
Cleveland	 27	16	22	11	23	25	17	19	15	19	27	15	236
Exchange	 14	24	22	13	21	25	23	23	17	14	25	21	242
Grove Hill	38	26	38	35	39	37	34	35	33	21	19	25	380
Linthorpe	26	14	9	18	14	19	19	16	20	19	13	17	204
Marsh	 34	31	39	17	47	27	40	34	38	29	26	27	389
Newport	 38	44	36	32	56	37	52	45	34	38	45	23	480
Vulcan	 36	16	27	16	28	19	23	32	11	26	13	16	263

Representing annual birth rates per 1,000 of the population in the various Wards as follows:—

Ayresome	 42.47	Grove Hill	 29.07
Acklam	 34.64	Linthorpe	 26.25
Cannon	 33.23	Marsh	 35.82
Cleveland	 33.23	Newport	 47.36
Exchange	 29.44	Vulcan	 32.37

The birth rate for the whole Borough for 1905 being 34.91 per 1,000.

There were 598 deaths of children under 1 year of age in the Borough during the year, of which 7 were deaths of non-residents, the remaining 591 deaths occurred in the following Wards:—

Ayresome	 90	Grove Hill	 47
Acklam	 45	Linthorpe	 34
Cannon	 68	Marsh	 81
Cleveland	 30	Newport	 103
Exchange	 39	Vulcan	 54

Representing an infantile death rate per 1,000 births in these Wards as follows :-

Ayresome	 131	Grove Hill	 123
Acklam	 161	Linthorpe	 165
Cannon	 242	Marsh	 208
Cleveland	 127	Newport	 214
Exchange	 161	Vulcan	 205

The infantile death rate per 1,000 births for the whole Borough being 174.

INFANTILE MORTALITY DURING THE YEAR 1905. 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 Uncertified	101 2	25	29	14	169 3	47 2	49	41	40	47	36	32	26	30	37	36	590 8
Common Infectious Diseases—																	
Measles Diphtheria : Croup Whooping Cough				··· 1	·· ·· 1	··· i	·· 2	·· 2	3	1	··· i	1	4 2	3	3 3	4 2	15 1 19
DIARRHŒAL DISEASES Diarrhœa, all forms		1		2	5	6	7	10	5	9	3	9	5	1	4	3	67
Enteritis (not Tuberculous)		1	3	2	6	6	4	7	6	5	3		2	2	3	3	47
Gastritis, Gastro- intestinal Catarrah		1			1				1	1				1			4
Wasting Diseases Premature Birth		6	5	2	71	5	2					1					79
Congenital Defects Atrophy, Debility, Marasmus	24	1	7	6	48	10	7	8	8	4	5	2	2	1		1	96
Marasmus TUBERCULOUS DIS-	24	11	,	0	40	10	,	0	0	.3	3	2	2	1		1	30
Tuberculous Menin -gitis Tuberculous Peri-	1 0000						1			2					1	1	5
tonitis: Tabes Mesenterica Other Tuberculous			1		1	1	2	2	1	1	1	1		1	2	2	15
99.1							1	1				2	1	1	1	1	8
Erysipelas	. 2		1		3		4	2	2	1 3	1					 1	2 11 5
Meningitis (not Tuberculous) .						2	1	1	1	3	3	2	2	2	2	1	20
Convulsions . Bronchitis		1	1 2	1	7 3	5 6	3 7	3	3	3	5	4	2	2 4	1	3	38 39
Laryngitis		i			i	4	5		4	7	10	7	5	ii	ii	ii	1 76
Suffocation, over- laying Other Causes .	0		2 6	1	5 16	3	2	1 1	3	4	2	2		i	3	2	6 39
	10	3 25	29	15	172	49	49	42	41	47	36	32	26	30	38	36	598

Uncertified Deaths.—During the year there were 13 uncertified deaths, being 62 per cent. of the total deaths. In the previous year the uncertified deaths equalled 1.19 per cent. of the total deaths.

The causes of death were as follows :-

,		13
Diarrhœa	 	1
Apoplexy	 	1
Inanition	 	1
Premature Birth	 	2
Heart Disease	 	3
Convulsions	 	5

8 were under 1 year of age.

Zymotic Diseases.—(The principal Zymotic Diseases include Small-Pox, Measles, Scarlet Fever, Diphtheria, Whooping Cough, "Fever"—Typhus, Simple, Continued and Enteric—and Diarrhœa).

During the year 1905 there were 276 deaths from the above diseases, the Zymotic death rate being 2.8 per 1,000 of the population.

The number of deaths from the principal Zymotic diseases and the Zymotic death rates per 1,000 of the population during the past 8 years are as follows:—

Deaths fro	m Zym	otic Diseases	Zymotic Death Rate
1898		383	4·2 per 1,000
1899		216	2.3 ,,
1900		159	1.6 ,,
1901		270	2.9 ,,
1902		224	2.4 ,,
1903		271	2.8 ,,
1904		246	2.5 ,,
1905		276	2.8 ,,

Notifiable Diseases.—The total number of Infectious Diseases notified during the year 1905 was 637, in the previous year there were 867 cases notified.

During the past 8 years the number of cases of Scarlet Fever, Enteric Fever and Diphtheria notified in the Borough were as follows:—

		Scarlet Fever.	Enteric Fever.	Diphtheria.	Total Notifications during the year.
1898		237	234	54	2,032 (Small-Pox Epidemic).
1899		345	136	30	611
1900		284	96	25	502
1901		376	156	68	680
1902		500	121	164	879
1903	٠,	252	81	117	570
1904		612	67	79	867
1905		344	77	103	637

Small-Pox.—There has not been a case of Small-Pox notified in the Borough during the year 1905, in the previous year 15 cases were notified.

Enteric and Continued Fevers.—77 cases of Enteric Fever and 1 of Continued Fever were notified, 23 of which proved fatal, the mortality being 29.4 per cent.

35 of the cases were removed to the Isolation Hospital for treatment.

The death rate per 1,000 of the population from Enteric Fever during the past year being '19.

The following have been the death rates during the past 10 years:—

1896	 	.40 pc	er 1,000 of	the population.
1897	 	.32	,,	,,
1898	 	.35	,,	,,
1899	 	.24	,,	,,
1900	 	.17	,,	,,
1901	 	.33	2.7	"
1902	 	.24	.,	17
1903	 	.23	33	,,
1904	 	.18	2.5	>>
1905	 	.19	***	,,

The greatest number of cases occurred in the Cannon, Cleveland and Marsh Wards. See Tables VII and IX.

Of the 77 cases of Enteric Fever notified,

58 occurred in houses with Pan Closet accommodation

18 ,, ,, Ashpit ,,
1 ,, ,, Water Closet ,,

the relative proportion of Ashpits to Pan Closets in the Borough being about one-sixth.

Very few Sanitary defects were found on the premises where these cases occurred.

Ages of those who co Enteric and Continuo	ntracted ed Fever	8.		Ages of those who died.
Under 1 year			 Nil.	Nil.
1 and under 5 years			 4	1
5 and under 15 years			 24	2
15 and under 25 years			 17	4
25 and under 65 years			 33	15
65 years and over	**		 Nil.	1
	Total		78	23

They occurred in the following districts:-

North of the Railway.		East of Linthorpe Road.	West of I	of Linthorpe Road.		
11		21		46		
	The foll	owing were removed to Hospita	ıl :—			
7		8		20		

The following were the occupations of those attacked by Enteric Fever :-

Household Du	ties and	d Infan	its	 	18
Labourers				 	9
Domestic Serv	ant			 	1
Agent				 	1
Attending Sch	ool			 	21
Rougher				 	1
Caulker				 	1
Draper				 	1
Bottle Washer				 	1
Fish Frier				 	1
Steelworker				 	1
Platelayers				 	2
Plater				 	1
Brass Dresser				 	1
Boilerman				 	1
Galvanizers				 	2
Blacksmith's S	Striker			 	1
Basic Slag Wo	rker			 	1
Blastfurnacem	an			 	1
Civil Engineer				 	1
Planer				 	1
Stocktaker				 	1
Porters				 	2
Milliner				 	1
Clothier —				 	1
Secretary				 	1
Occupation no	t know	n		 	4
					70
					78

Scarlet Fever.—344 cases were notified. In the previous year 612 cases were notified. 7 proved fatal, the death rate being 2.03 per cent.

272 of the 344 cases—79·1 per cent., were removed to the Isolation Hospital for treatment. In the previous year the percentage of cases removed being 81·5.

They occurred in the following districts :-

Ages of those att	Ages of those who died.			
Under 1 year			 3	Nil.
1 and under 5 years			 102	3
5 and under 15 years			 211	2
15 and under 25 years			 17	2
25 and under 65 years			 11	Nil.
65 years and over			 Nil.	Nil.
	Tota	ls	 344	7

They occurred in the following districts:-

North of the Railway.	East of Linthorpe Road.	West of Linthorpe Road.
14	104	226
Th	e following were removed to Hosp	oital:—
13	72	187

158 of the children who contracted Scarlet Fever attended School. Of these:

39	attended	the	Newport School.
25	,,		Victoria Road School.
20	,,		Fleetham Street School.
16	,,		Hugh Bell School.
15	,,		Ayresome School.
12	,,		St. John's School.
11	,,		Marton Road School.
10	,,		St. Patrick's School.
9	,,		Southend School.
7	,,		St. Paul's School.
7 6	,,		Wesleyan School.
5	,,		St. Mary's School.
5	,,		Denmark Street School.
4	,,		Linthorpe School.
4 4 3	,,		East Street School.
3	,,,		St. Hilda's School.
2	,,		Friends' School.
2	,,		Avenue School.
1	,,		Convent School.

Diphtheria and Membranous Croup.—107 cases were notified during the year 1905, 103 being Diphtheria and 4 Membranous Croup.

The following have been the number of notifications of Diphtheria and the deaths per annum for the past 6 years:—

Diphtheria		1900	1901	1902	1903	1904	1905
Cases notified	 	25	. 68	164	117	79	107
[Deaths]	 	3	19	- 58	32	11	34

The rate of mortality during 1905 being 31.7 per cent., compared with 13.9 per cent. in the previous year.

33.6 per cent. of the 107 cases were removed to the Isolation Hospital.

Ages	Ages of those who died.			
Under 1 year		 	1	1
l and under 5 years		 	43	20
5 and under 15 years		 	53	13
15 and under 25 years		 	3	Nil.
25 and under 65 years		 	7	₹Nil.
65 years and over		 	Nil.	į Nil.
1	Total		107	34

They occurred in the following districts :-

North of the Railway.	East of Linthorpe Road.	West of Linthorpe Road.
11	34	62
. The	following were removed to Hosp	oital :—
1	7	28

Cases occurred amongst Children attending the following Schools:-

Fleetham Street School	 13	Denmark Street School	2
Victoria Road School	 11	High School	2
Ayresome School	 6	Newport School	1
St. Paul's School	 4	Wesleyan School	1
Grange Road School	 4	St. Hilda's School	1
Southend School	3	Linthorpe School	1
St. Mary's School	 2 .	East Street School	1

Measles.—During the year 1905 there were 71 deaths from Measles, the number during the previous year being 39.

9 occurred in the district East of Linthorpe Road.

56 occurred in the district West of Linthorpe Road.

6 occurred in the district North of the Railway.

The ages at death were :-

15 under 1 year of age.

53 one and under five years of age.

3 five and under ten years of age.

Whooping Cough.—Caused 43 deaths, and in the previous year 25.

They occurred in the following districts:-

3 North of the Railway.

32 East of Linthorpe Road.

8 West of Linthorpe Road.

43

The ages at death being :—

19 under 1 year of age.

24 1 year and under 5 years of age.

43

Erysipelas.—102 cases were notified and 3 cases proved fatal.

57 of the cases were West of Linthorpe Road.

33 ,, East of Linthorpe Road.

12 ,, North of the Railway.

Puerperal Fever.—6 cases were notified and 1 case proved fatal:—

2 cases occurred West of Linthorpe Road.

East of Linthorpe Road.

2 ,, North of Railway.

In two of these cases the confinement was conducted by Certified Midwives and one by an uncertified Midwife.

For the Wards in which the cases occurred see Table IV.

Infantile Mortality.—598 Infants under 1 year of age died in the Borough of Middlesbrough during the year 1905, equal to a mortality of 174 per 1,000 births.

The deaths under 1 year of age being equal to 28.46 per cent. of the total deaths.

172 of these 598 Infants died before they were 1 month old.

The chief causes of Infantile death were :-

Bronchitis and Pneumonia, 115 deaths.

Diarrhœa and Diseases of the Bowels, 114 deaths.

Debility and Wasting Diseases, 96 deaths.

The 598 deaths occurred in the following districts:-

334 West of Linthorpe Road.

130 East of Linthorpe Road.

106 North of the Railway.

28 in Public Institutions.

The percentage of Infantile deaths to total deaths in these districts being :-

34.3 West of Linthorpe Road.

27.2 East of Linthorpe Road.

32.3 North of the Railway.

Diseases of the Respiratory System.—525 deaths were due to diseases of the Respiratory System, during the previous year there were 409 such deaths.

Of the above deaths 371 were from Pneumonia and 119 from Bronchitis.

Deaths from Respiratory Diseases were equal to 25.4 per cent. of the total deaths, being an increase of 3.2 per cent. on the previous year.

The mortality from Pneumonia per 1,000 of the population in the Borough during the past 6 years has been :—

1900 . 5.5 per 1,000.

1901 . . 3.1 ,

1902 .. 3.1

1903 .. 3.6 ,

1904 .. 2.7

1905 ... 3.7 ,

Tubercular Diseases.—Caused 222 deaths, of these :—

8 were from Tabes Mesenterica.

20 ,, Tubercular Meningitis.

134 ,, Phthisis (Pulmonary Tuberculosis).

59 ,, Other Tubercular Diseases.

68 of the above were deaths of Children under 5 years of age :-

49 occurred East of Linthorpe Road.

112 ,, West of Linthorpe Road.

31 ,, North of the Railway.

30 ,, in Public Institutions

The following have been the number of deaths from all Tuberculous Diseases in Middlesbrough during the past 10 years :—

1896	 	 175	1901	 	 225
1897	 	 177	1902	 	 204
1898	 	 198	1903	 	 210
1899	 	 215	1904	 	 218
1900	 	 247	1905	 	 222

Diarrheal Diseases.—There were 93 deaths from Diarrheal Diseases during 1905, the number the previous year being 139.

Of the 93 deaths during 1905:—

9 occurred East of Linthorpe Road.

55 ,, West of Linthorpe Road.

27 ,, North of the Railway.

2 ,, in Public Institutions.

67 were under 1 year of age.

22 were between 1 and 5 years of age.

The Diarrheal Mortality being 0.94 per 1,000 of the population and 27.07 per 1,000 births.

Still-Born Children.—During the year 1905 there were 153 bodies of children buried which were stated to have been still-born. Of these 117 certificates as to still-birth were from Medical Practitioners and 36 certificates were from Midwives.

In the previous year there were 145 certificates from Medical Practitioners and 22 certificates from Midwives.

The following have been the number of burials of Still-Born Children in the Middlesbrough Cemetery during the past 8 years.

1898	 	139	1902	 	 164
1899	 	163	1903	 	 164
1900	 	181	1904	 	 167
1901	 	198	1905	 	 153

Illegitimate Children.—112 of the births registered during the year 1905 were those of Illegitimate Children. During the year there were 42 deaths of Illegitimate Children 12 months of age and under, being 37.5 per cent. and equal to an Infantile mortality of 375 per 1,000 Illegitimate Births, compared with an Infantile mortality of 174 per 1,000 of the total births in the Borough.

The number of Illegitimate Births in the Borough during the past 8 years being:-

1898	 		96	1902	 	 104
1899	 	1	14	1903	 	 117
1900	 	10	08	1904	 	 115
1901	 	13	31	1905	 	 112

Marriages.—The number of Marriages of Persons, one or both of whom were residents in the Borough of Middlesbrough, during the year 1905 was 837. Of these:—

421 were Solemnized in Non-conformist Places of Worship and the Register Office.
416 in the Church of England.

During the previous year there were 861 Marriages.

Vaccination.—2,491 Certificates of successful Vaccination were received by the Vaccination Officer.

The number of Certificates granted to persons claiming exemption being 9.

Health Visitor.

REPORT ON THE WORK DONE DURING THE YEAR 1905.

During the eleven months ending November 30th, 1905, Miss E. Bentham made 2,892 house-to-house visits, of these, 1,020 were first visits and 1,872 were re-visits.

The 1,020 first visits to houses comprised 533 systematic house-to-house visits in districts not previously gone over, and 487 visits to houses in various parts of the Borough for the purpose of investigating cases reported by various authorities as requiring supervision.

In addition to the above, Miss Bentham made the following inspections:-

Factory and	Worksho	ops	 545
Domestic Wo	rkshops		 49
Workplaces			 22
Outworkers	.,		 38
			654
Shop Hours A	Act Inspe	ections	 93
Shop Assistar	its' Seat	s Act	 68
Still-Birth en	quiries		 24
Puerperal Fe	 7		
			192
			-

being a total of 3,728 visits made during the year.

During the year 1904 most of the visiting was confined to the Marsh, Newport and Cannon Wards, and during the past year the visits have been continued in the Marsh and Vulcan Wards, and the worst houses in the Newport and Cannon Wards have been re-visited. The following being the Streets which have received the most attention, viz.:—

Stockton Street.	Victoria Yard.	Slate Street.
Lincoln Street.	Thomas' Yard.	Marsh Road.
Calthorpe Street.	Ingledew's Buildings.	Jamieson Street.
Randolph Street.	Prince Charles Street.	School Croft.
Commercial Street.	Rock Street.	Auckland Place.
Queen Mary Street.	Fidler Street.	Thomas Street.
Cross Street.	Hunter Street.	Lower Feversham Str
Mason Street.	Wood Street.	Florence Street.

eet.

174 of the houses visited were reported to be in a dirty and insanitary condition, and 7 were reported to be filthy. After warning the inhabitants of these dirty houses it is generally found, on re-visiting them, that a considerable improvement has taken place, and in many cases this improvement seems to be permanent. The worst cases are found to be those living in furnished rooms, the tenants of which are constantly removing from one district to another, a class it is very difficult to keep under constant supervision. In many cases this state of things is due to the head of the family being out of work and the necessity for obtaining cheaper accommodation, but more often if is the result of drunkenness and thriftlessness.

The difficulty of dealing with that section of the inhabitants which does not appreciate cleanliness and healthy conditions of living is very great indeed, but it is most encouraging to find that very few of such cases are beyond improvement, and that in the majority of cases the improvement is very great.

The following Sanitary defects were found and reported to the Sanitary Department, viz. :—

Defective	Roofs				8
,,	Stairs				1
,,	Spouts, &c.				5
,,	Windows				14
,,	Yards				12
,,	Privies				11
,,	Pan Closets	and P	rivy Ro	ofs	28
,,	Pan Closet	Doors			6
,,	Floors				2
,,	Ceilings				3
,,	Sanitary P	ans			6
,,	Walls				2
,,	Sink				1
					99
					Sentinetral State

I have the honour to be, Gentlemen, Your obedient Servant,

CHARLES V. DINGLE, M.D.,

Medical Officer of Health.

The Health Department,
Middlesbrough,
February, 1906.

TABLE I.—Giving the Annual Death Rates (Uncorrected) in the various Districts of the Borough for the past 21 years.

YEARS	Death Rate per 1,000 West of Boundary Road	Death Rate per 1,000 East of Boundary Road	Death Rate per 1,000 North of the Railway		
1884	 21.57	19.76	15.09		
1885	 20.47	19.69	18.38		
1886	 19.38	19.64	19.46		
1887	 19.12	19.09	16.48		
1888	 19-26	22.50	21.71		
1889	 20.33	16.23	17.54		
1890	 21.96	16.09	20.90		
1891	 21.46	19:34	20.51		
1892	 21.46	15.97	20.02		
1893	 19.40	15.89	16.82		
1894	 17:30	13:04	19.41		
1895	 18.06	14.86	18:46		
1896	 19.58	14.56	20.09		
1897	 19.23	13:49	20.55		
1898	 19.31	15.37	20.53		
1899	 19.84	15.65	26.31		
1900	 23.74	17:14	27.26		
	West of Linthorpe Road	East of Linthorpe Road	North of the Railway		
1901	 19.62	15.64	23.38		
1902	 16.57	16.02	21.32		
1903	 19.77	15.62	22:38		
1904	 15.48	14:71	22·38		
1905	 18.90	14.94	21.59		

TABLE II.—Summary of the Monthly Death and Birth Rates during 1905.

1905.	Death Rates North of the Railway.	Death Rates East of Linthorpe Road.	Death Rates West of Linthorpe Road.	Deaths in Public Institu- tions.	Total Deaths.	Monthly Death Rates for whole Borough.	Births.	Monthly Birth Rates for Borough	Corrected Monthly Death Rates.
January	 41.93	21.79	27.94	35	238	29-09	238	39.24	28.11
February	 27.53	19.21	24.09	26	181	23.24	260	34.14	23.05
March	 25.61	21.07	20.60	20	182	21.87	304	36.38	21.54
April	 28.92	11.83	26.03	23	182	22.53	221	27:33	21.88
May	 38.83	17:36	20.37	24	191	22.61	352	42.12	22.26
June	 23.24	18.71	19.63	24	167	20.64	289	35.74	19.90
July	 23.31	9.95	15.80	19	128	15.31	309	35.99	15.07
August	 34.93	14.03	20.84	33	179	21.41	312	37.33	20.37
September	 31.30	14.13	20.12	19	164	20.27	285	35.24	19.66
October	 28.72	16.26	17.18	27	159	19.03	270	32.31	18.66
November	 18.42	14.01	20.12	19	146	18.05	246	30.42	17.93
December	 25.62	16:16	16.25	23	149	17.82	259	30.99	17:47

TABLE III.—Monthly Births and Deaths for 1905.

	BIR	THS DURI	DEATHS DURING 1905				
Months		Male	Female	Totals	Male	Female	Totals
January		158	170	328	127	111	238
February		137	123	260	105	76	181
March		158	146	304	93	89	182
April		105	116	221	108	74	182
May		190	162	352	107	84	191
June		159	130	289	92	75	167
July		152	157	309	68	60	128
August		159	153	312	90	89	179
September		145	140	285	86	78	164
October		153	117	270	93	66	159
November		143	103	246	75	71	146
December		145	114	259	74	75	149
Totals		1,804	1,621	3,435	1,118	948	2,066

- 1				_	_						
		Totals	298	383	59	21	96	629	280	2,066	
		Public Institutions	10	50	-	:	4	34	20	69	454
5.	arter	North of the Railway	55	6	4	:	žĊ	20	10	65	
190	4th Quarter.	West of Linthorpe Road	7.5	66	4	-	121	22	24	203	
year	44	East of Linthorpe Road	35	15	-	-	9	36	53	117	
the year 1905.		Public Institutions	-1	9	9	01	00	30	91	70	471
of	arter.	North of the Railway	100	16	က	:	G1	56	4	86	411
Quarters	3rd Quarter.	West of Linthorpe Road	96	50	00	-	œ	49	14	220	
oni	35	East of Linthorpe Road	35	16	:	01	4	30	Ξ	92	
Four		Public Institutions	60	+	01	:	-	65	82	7	540
the	arter	VewliaH to draw	19	18	-	Н	0.1	38	9	85	
=	2nd Quarter.	West of Linthorpe Road	92	87	15	65	15	28	26	268	
Death	2n	East of Linthorpe Road	27	15	+	-	60	527	53	116	
at		Public Institutions	133	9	+	60	10	35.	15	28	109
Ages	Quarter.	North of Railway	30	18	:	-	7	55	9	16	
the /		West of Linthorpe Road	88	99	0	60	15	74	56	281	
90	lst	East of Linthorpe Road	36	26	67	03	1-	45	65	148	
nary				:	:	- :	-:		:		
TABLE IV.—Summary		AGE PERIODS.	Under 1 year of age	I year and under 5 years	5 years and under 10 years	10 years and under 15 years	15 years and under 25 years	25 years and under 65 years	65 years and over	Totals	

TABLE V.—Deaths in Public Institutions of Middlesbrough during the year 1905.

Institutions	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals.
The Work- house	26	15	11	18	20	14	8	21	12	15	11	17	188
Infirmary	5	8	5	4	4	7	10	6	6	7	7	5	74
Sanatorium	4	3	4	1		3	1	5	1	5	1	1	29
Totals	35	26	20	23	24	24	19	32	19	27	19	23	291

42 of these were removed from the District East of Linthorpe Road.
93 ,, ,, ,, ,, West of Linthorpe Road.
110 ,, ,, ,, ,, ,, North of the Railway.
46 ,, were Non-Residents.

TABLE VI. Notifications received from Medical Practitioners during the various months of 1905.

	MONTH	S	Small Pox	Scarlet	Diphtheria	Enteric	Con. Fever	Typhus	Puerperal	Mem. Croup	Erysipelas	Totals
Janu	iary		 	33	11	7					6	57
Febr	ruary		 	40	12	6			1	1	14	74
Marc	eh		 	30	16	7					13	66
Apri	1		 	16	8	4			1		10	39
Jay			 	24	4	5			2	1	9	45
June			 	23	11	4			1		6	45
July		* *	 	24	4	5					7	40
Aug	ust		 	43	10	7					-5	65
Bept	ember		 	29	3	12			1		6	51
Octo	ber		 	34	8	11	1				13	67
Nove	ember		 	21	11	9					6	47
Dece	ember		 ••	27	5					2	7	41
	Totals		 Nil	344	103	77	1		6	4	102	637

TABLE VII.—Showing the Wards in which Notifiable Diseases occurred during 1905.

WARDS		Small Pox	Scarlet	Diphtheria	Enteric	Con. Fever	Typhus	Puerperal	Mem. Croup	Erysipelas	Totals
Ayresome			92	17	11	1		1	2	20	144
Acklam	 		36	18	5					9	68
Cannon	 		16	8	10					12	46
Cleveland	 		27	6	10				1	5	49
Exchange	 		18	5	6				1	10	40
Grove Hill	 		39	14	8					16	77
Linthorpe	 		36	12	3					3,	54
Marsh	 		12	10	10			3		8	43
Newport	 		52	9	9			1		10	81
Vulcan	 	4.4	16	4	5		* *	1	**	9	35
Totals	 		344	103	77	1		6	4	102	637

TABLE VIII.—Deaths from the principal Zymotic Diseases during the year 1905.

DISEASES.	East of Linthorpe Road	West of Linthorpe Road	North of Railway	Public Institution	TOTAL
Measles	 9	56	6		71
Scarlet Fever	 	2		9	11‡
Diphtheria	 7	11	5	12	35‡
Enteric Fever	 3	9	1	6	19
Diarrhœa	 9	55	27	2	93
Whooping Cough	 8	32	3		43
Continued Fever	 	1		3	4
Totals	 36	166	42	32	276

[‡] Including deaths of Non-Residents.

TABLE IX.—Showing the number of Enteric Cases and the various Wards in which they occurred during the year 1905.

Months	Ayresome	Acklam	Cannon	Cleveland	Exchange	Grove Hill	Linthorpe	Marsh	Newport	Vulcan	Totals
January	 		1	2				1	2	1	7
February	 2	2		1		1					6
March	 1		1	5				(6.9			. 7
April	 		* 1	4.4	1	1		2			4
May	 			1	2				1	1	5
June	 1	1	1				1				4
July	 **	1	1	5.5		1		1	1	1,1	5
August	 1		1		1	1		1	1	1	7
September	 4		2			1	1	2		2	12
October	 	1	3	1	1	2		1	2		11
November	 2				1	1	1	2	2		9
December	 Nil										Nil
Totals	 11	5	10	10	6	8	3	10	9	5	7

TABLE X.—Showing the number of Enteric Fever Cases in the various Wards and the kind of Closet in use.

	V	VARDS		Ashpits	Ashpans	W.C's.	TOTAL
Ayresome			 	 	11		11
Acklam			 	 	5		5
Cannon			 	 2	8		10
Cleveland			 	 6	3	1	10
Exchange			 	 4	2		6
Grove Hill		1.	 	 	8	11.1	8
Linthorpe			 	 	3		3
Marsh			 	 3	7		10
Newport			 	 1	8		9
Vulcan			 	 2	3		5
Total	als		 	 18	58	1	77

TABLE XI.—Showing Causes of Death and Ages at Death of Persons dying in the Borough but not belonging thereto.

1	_						-	
Total	-	60	0.1	-	-	13	19	46
Disease of Bones	:	:	:	:	;	:	1	-
Enteritis	-	:		:	:	:	:	-
Dementia	:	:	:	:	:	:	-	-
Diseases of Blood Vessels	:	:	:	:	:	-	:	-
Syphilis	-	:	;	. :	:	:	:	-
Nephritis	:	:	:	:	;	-	-	61
mairuanA	:	:	:	:	:	:	-	-
Ileo-Colitis	-	:	:	:	:	:	:	-
Pleurisy	:	:	:	:	:	Т	:	-
Peritonitis	:	:	:	:	:	-	:	-
BinomusnT	:	:	:	:	:	-	-	01
Malignant Disease	:	:	:	:	:	-	:	1
Premature Birth	03	:	:	:	:	:	:	01
Meningitis	:	:	:	:	:	-	:	-
Bronchitis	:	:	:	:	:	-	-	01
Diphtheria	:	:	-	1	:	:	:	01
Tubercular Disease	:	:	:	:	-	01	:	60
Heart Disease	:	:	:	:	:	03	O3	+
əgA blO	:	:	:	:	:	-	Ξ	12
Marasmus	03	:	:	:	:	:	:	01
Scarlet Fever	:	00	-	:	:	:	:	4
		:	:	:	:	:	:	
DISEASES.	Under 1 year	1 and under 5 years	5 and under 10 years	10 and under 15 years	15 and under 25 years	25 and under 65 years	65 years and over	Totals
	Und	1 an	5 an	10 a	15 a.	25 a	65 y	

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63 Totals piratory System ¢1 00 Disease of Res-01 01 Epilepsy TABLE XII.—Deaths of Residents occurring in Public Institutions outside the Borough. 00 00 old Age Disease Organic Brain Insane 2 27 Paralysis of the Disease of Glands Pneumonia 1-10 Tuberculosis System Disease of Urinary Gangrene 01 01 Apoplexy 00 mount Septic Disease Digestive System CI 00 Disease of + C1 9 Heart Disease OI Malformation 01 Accidents OI Fracture and 10 1-Malignant Disease 1 and under 5 years ... AGES AT DEATH 10 and under 15 years 15 and under 25 years 25 and under 65 years 5 and under 10 years Totals 65 years and over Under 1 year

TABLE XIII.—Vital Statistics of Whole District during 1905 and previous Years.

	r to	Вик	rns	Тота	L DEATH	s Regist District	ERED	blic	ents lie strict	its lic nd	Nett I at all belong the Di	eaths Ages
	imated th Yes			Under of A	l Year Age	At All	Ages	in Pul s in th	Residen n Public the Distr	Residents in Public ns beyond strict	the Di	strict
YEAR	Population estimated to middle of each Year	Number	Rate*	Number	Rate per 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 Residents registered in Public Institutions beyond the District	Number	Rate*
1	2	3	4	5	6	7	8	9	10	11	12	13
1895	84,962	2,758	32.91	536	194	1,615	19:31	217				
1896	86,991	2,747	31.70	467	170	1,686	19.64	183				
1897	88,124	2,956	33.35	509	172	1,706	19.16	197				
1898	89,246	2,904	32.52	566	199	1,967	22.04	369	Ē			
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	20:0
Averages for years 1895-1904	91,621	3,161	33.87	585	185	1,935	21.10	279	42	51	2,071	21.91
1905 .	. 98,369	3,435	34.91	598	174	2,066	21:00	291	46	63	2,083	21.18

^{*}Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

Note.—The deaths to be included in Column 7 of this Table are the whole of those registered during the year as having actually occurred within the district or division. The deaths to be 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 there; 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" to be 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.

Total population at all ages					91,317)	
Number of inhabitated houses					17,633	at Census
Average number of persons per house				4.4.	5.17	of 1901.
Area of District in acres (exclusive of	area c	overed	by wa	ter)	2,824	

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TABLE XIV. Corrected Vital Statistics of separate Localities in 1905 and previous years

(See Notes at foot of Table).

			-	01	-	7.5	7	~
90	Deaths under I year	d.	379	335	370	336	354	342
thori	Deaths at all Ages	ő	1043	948	1089	912	866	1101
f Lint Road	Births beretsiger	á	:	:	:	:		:
West of Linthorpe Road.	Population esti- mated to middle of each year	ë.	47,095	48,256	48,953	49,869	48,543	51,383
	Deaths under	d.	146	173	155	144	154	136
horpe	Deaths at all Ages	.5	507	534	526	528	523	536
f Lint Road	Births registered	è.	:	:	:	:	:	:
East of Linthorpe Road.	Population esti- mated to middle of each year	- ë	29,083	29,956	30,918	31,673	30,407	31,844
	Deaths under I year	d.	132	109	120	128	122	115
ilway	Deaths at all Ages	ë	450	430	454	494	457	446
of Ra	Births registered	p.	:	:	:	:	:	:
North of Railway.	Population esti- mated to middle of each year	a,	15,139	15,149	15,142	15,142	15,141	15,142
	Deaths under 1 year	ij	657	614	645	809	631	593
District.	Deaths at all Ages	Ġ.	2,000	1,912	2,069	1,934	1,978	2,083
	Births registered	Ď.	3,328	3,370	3,489	3,589	3,444	3,435
Whole	Population esti- mated to middle of each year	a.	91,317	93,354	95,013	96,684	94,092	98,369
Names of Localities.	YEAR.		1901	1902	1903	1904	Averages of Years 1901 to 1904	5061

(b) Deaths of residents occurring in Public Institutions beyond the district are to be included in sub-columns c of this

Table, and those of non-residents registered in Public Institutions in the district excluded.

(c) Deaths of residents occurring in Public Institutions, whether within or without the district, are to be allotted to the respective localities according to the addresses of the deceased.

TABLE XV.—Cases of Infectious Diseases notified in Middlesbrough during the Year 1905.

		Casi	ES IN	v Wi	HOLE	Dist	RICT.		Nor	L CASE	N	REM	TAL CAS	ROM
					At Ag	es.			EACH	Distri	T.	EACE	I DISTR	ICT.
Infectious Disease.		At all Ages	Un der 1	1 to 5	5 to 15	15 to 25	25 to 65	65 & over	Е.	W.	N.	E.	w.	N.
Scarlet Fever	3	344	3	102	211	17	11		104	226-	14	72	187	13
Enteric Fever		77		4	24	17	32		21	45	11	8	- 20	7
Diphtheria]	103	1	39	53	3	7		33	59	11	7	28	1
Croup		4		4					1	3				
Puerperal Fever		6				3	3		2	2	2		**	
Continued Fever		1					1			1				
Erysipelas		102	3	2	5	18	62	12	33	57	12			
Totals		637	7	151	293	58	116	12	193	392	50	87	1235	21

TABLE XVI.—Causes of, and Ages at, Death during Year 1905.

	Dea	ths in	whole D	istrict a	t subjo	ined Ag	es.		hs in Lo (at all a	ocali- ages).	Public
Causes of Death.	All Ages	Under 1 Yr.	l and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards	East of Linthorpe Road	West of Linthorpe Road	North of the Railway	1 -
Small-Pox											
Measles	71	15	53	3				9	56	6	١.
Scarlet Fever	7		3	2	2			2	5		1
Whooping Cough	43	19	24					8	32	3	١.
Diphtheria and Mem-					0000						
branous Croup	34	1	20	13				10	18	6	1
Croup	7		7					2	5		
Typhus											
Enteric	19		1	2	4	12	1.1		200		
Fever Other con-						1420		4	14	5	
tinued	4					3	1	1	47		
Epidemic Influenza	5			1		3	1	2	3		
Cholera	1.5					* *					
Plague	0.0	0=	20	.;			4.5	10	***	0=	
Diarrhœa	93	67	22	1		3		10	56	27	ı
Enteritis	54	46	7		* *.	1	1.0	17	28	9	
Puerperal Fever	1					1	1	1	1		1
Erysipelas	3	2					1	1	2		
Other Septic Diseases	1	1	* *	* *				**			1
Phthisis (Pulmonary Tuberculosis)	140	1	6	13	29	90	1	37	70	33	1 9
Other Tubercular	140			1.0	20	50		01		0.0	Ι.
Diseases	89	26	36	10	11	6		20	53	16	
Cancer, Malignant		200	0.0	10				20			
Disease	74			2	1	53	18	26	35	13	
Bronchitis	117	39	13		î	38	26	25	63	29	
Pneumonia	370	76	113	10	26	123	22	88	183	99	1
Pleurisy	5					4	1	3	1	1	
Other Diseases of						550					
Respiratory Organs	24	1	3	3	1	13	3	4	19	1	
Alcoholism	7/07/	900		820		190200	11000				
Cirrhosis of Liver	13			200		10	3	3	5	5	
Venereal Diseases	11	10	1					3	5	3	
Premature Birth]	77	77						17	45	15	1
Diseases and Accident	231	1			1	122,13					
of Parturition	16	3			2	11		4	8	3	
Heart Diseases	145	3	1	3	6	93	39	42	66	37	1 5
Accidents	63	8	2	6	4	38	5	13	18	32	2
Suicides	5					5		1	2	2	
Cerebro Spinal Menin-											
gitis	1		1						**	1	
Chicken-Pox	2	100	2	;;	10			170	2	100	1,
All other Causes	589	198	66	11	12	155	147	176	305	100	10
All Causes	2083	593	381	80	99	662	268	536	1101	446	29

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ANNUAL REPORT OF THE CHIEF SANITARY INSPECTOR FOR THE YEAR 1905.

Sanitary Department, Municipal Buildings,

Middlesbrough.

To the Chairman and Members of the Sanitary Committee.

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

During the year there were 5,251 Notices served on Owners to abate the undermentioned Nuisances:—

Back Yards Relaid with Scoriæ Bricks, Concrete, &c.		180
Back Yards Repaired		101
Back Passages Relaid with Scoriæ Bricks		52
Back Passages Repaired		80
Dilapidated Ashpits and Privies		553
Old Ashpits Abolished		74
Pail Closets Substituted		185
(Pail Closets Abolished		6
Water Closets Substituted		6
Old Ashpits Abolished		6
Water Closets Substituted		6
Dilapidated Ashpans (Renewed)		2,280
Foul Drains Cleansed		379
The state of the s		88
Sink Drains Disconnected from Sewers and Trapped		22
Dilapidated Spouting and Fallpipes		354
Ashpit Doors Off (New Ones Fixed)		105
Pail Closet Doors Off (New Ones Fixed)		715
Privy Doors and Seats Off (New Ones Fixed)		596
Defective Pail Closets Reduced to Size of Ashpans		150
		17
Dilapidated Yard Walls		59
Dilapidated Dwellinghouse Roofs		173
Foul Cellar Drains Cleansed		14
Water Closets Repaired	7.1	14

Foul W.C. Drains					 9
New Water Closets Fixed					 2
Offensive Yards (Fowls Rem	oved)				 32
Foul Stable Drains					 2
Dilapidated Sinkstones Renev	ved				 53
Inadequate Water Supply					 62
Dilapidated Kitchen and Scul	lery F	loors			 111
Dirty and Filthy Premises					 6
Overcrowding					 7
Dilapidated Brickwork over C	dullies				 9
Damp Bedroom Walls					 7
Dilapidated House and Sculle	ry Wa	lls			 25
Dilapidated Bedroom Floors					 4
Dilapidated Windows					 5
Dilapidated Ceilings					 15
Cellars Filled up					 2
Dilapidated Back Door Step	s				 2
Defective Setpot Chimneys					 10
Dilapidated Cellar Floors Rela	aid wit	th Con	crete		 3
Premises Limewashed					 7
New Pail Closets Built					 4
Manure Pits Built					 5
Cowshed Limewashed					 1
Grates Provided for Gullies					 29
Dilapidated Gully Covers					 35
Dilapidated Urinals					 4
New Urinals Built					 3
Whitewashing Notices					 189
Public Health Notices					 2,859
	2026	20.23	500	7000	

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 9,275 yards of Main Drains in back passages, and relaid 783 yards with proper gradients.

235 yards of Glazed Stoneware Sanitary Pipes have also been relaid, in lieu of broken land tiles, segments, &c.

- 3 New Flushing and Examination Chambers have been constructed, 18 new Gullies, and 21 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.
- 1,285 Choked Drains have also been cleared by the aid of Cooper's Patent Vacuum Pump, free of charge to the owners.

DISEASED AND UNWHOLESOME FOOD.

During the year 36 seizures of Diseased and Unwhalesome Food were made. as shewn in the under-mentioned table:—

Number of Seizure.	Article.	Weight.
11	Beef	2,215 lbs.
5	Mutton	334 lbs.
1	Lamb	40 lbs.
6	Pork	285 lbs.
2	Veal	260 lbs.
7	Bacon	160 lbs.
2	Tripe	80 lbs.
2	Bananas	

In every case the articles of food were seized and destroyed with the consent of the owners, notice to inspect the same having been giving to your Inspector.

In addition to the above two live cows and one stirk were seized, and destroyed by order of the Court, the same being diseased and unfit for human food.

It came to our knowledge that a float containing two animals had come into the town from a farm about ten miles distant. As this was a most unusual occurrence (healthy animals being invariably driven into the town on foot), a search was made, when two animals very much emaciated and breathing with great difficulty were discovered in a cattle lair adjoining the private slaughter house occupied by a notorious butcher in the town. In the corner of the building another cow was discovered in the last stage of disease. In fact, the animal died before the Order obtained for their destruction could be carried into effect.

At the prosecution which followed, evidence was submitted that the defendant was a butcher in the town and also occupied a stall in the Market. He only slaughtered the very poorest class of animals. He and another butcher owned a small slaughter-house, situate a few yards from the cattle lair in question, but as the hunger house accommodation was totally inadequate for the amount of trade done, the animals were regularly hungered in the lair and brought over to the slaughter house to kill.

At the time of the seizure the butcher stated that he did not intend to slaughter the animals, he had simply bought them to send to his field to be fed up. The man, however, is well known in the district, and his statement was obviously false. Had it been his desire to feed the animals up they could have been conveyed to the field direct, without coming into the town. Besides, if a farmer was unable to accomplish this in the country, a butcher with a small field would have a very small chance of doing so.

Our Veterinary Surgeon in the course of his evidence stated that no one with any professional knowledge could have seen the animals without knowing that they were diseased. The cows were a mass of tubercles and the young stirk was practically a skeleton. In cross examination he stated that nothing could have saved them. The farmer must have known this when he sold them to the butcher and the latter must have been aware of their condition when he bought them.

The Solicitor for the defence admitted that the animals were diseased, and unfit for human food, and also that the action taken by the Inspector was the best possible under the circumstances, both for the inhabitants of the town, and also in the interests of the poor beasts themselves, but he submitted that the defendant did not intend them for food. There was absolutely no evidence on that point, and he contended that it was our duty to prove that the defendant had so intended to use the animals.

Without hearing any evidence for the defence the Magistrates stated that they had carefully considered the case and had arrived at the conclusion that the justice of the case would be met by the charge being dismissed without costs.

OFFENSIVE TRADES.

Number on Register :-				
Tripe Boilers		 	 	 13
Tallow Chandle	er	 	 	 1
Tallow Melter		 	 	 1
Gut Scrapers		 	 	 3
Total		 	 	 17
				-

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

PUBLIC BAKEHOUSES.

Bakehouses on Register				43			
The following is a list of those in which	ch Pub	olic Bak	ing is	done :-	_		
1.—Adam Street	9.—	15, Eliz	abeth	Street			
2.—77, Stockton Street	10.—8	88, Der	mark	Street			
3.—24, Stockton Street	11	56, Cre	scent 1	Road			
4.—41, Milbank Street	12	53, Chu	rch Str	reet			
5.—29, Durham Street	13.—	Nichola	s Stree	et			
6.—40, Fleetham Street	14.—	242, Ca	nnon S	treet			
7.—6, Vine Street	15	117, Cre	escent l	Road			
8.—101, Russell Street	16	40, Wa	terloo	Road.			
152 Inspections have been made an required attention:—	d the	followir	ng mat	ters h	ave r	eceived	l the
Bakehouse cleansed and limew	vash				4		
Defective closet accommodation	on				2		
Defective drainage					3		
Dilapidated bakehouse floor					1		
				-			

There are also 2 Factory Bakehouses in the Borough; these, however, are under the supervision of H. M. Inspector of Factories.

.. 10

Total

FOOD AND DRUGS.

During the year 235 Samples of Food and Drugs have been procured and submitted to the Borough Analyst (Mr. J. E. Stead) for analysis with the undermentioned results:—

Adulterated.

Samples	Number Submitted.	Genuine.	Fats Extracted.	Water Added and Fats Extracted	Water Added.
Milks	106	91	13	1	1
Milks (Unofficial)	3			1	2
Condensed Milk	2	2			
Sterilized Milk	2	1	1		
Butter	68	68			
Margarine	7	7			
Cheese	25	25			
Lard	22	22			
	-				
Totals	235	216	14	2	3

SUMMARY.

January to March		 	 	67 Sa	amples
April to June		 	 	41	53
April to June (Unot	ficial)	 	 	3	,,
July to September		 	 	60	,,
October to Decemb	er	 	 	64	,,
				235	

Three Samples of Milk were procured unofficially by Deputy from suspicious Milk Sellers, two of the samples were returned adulterated. These were followed up and official samples procured when we had the satisfaction of securing convictions against the offenders.

-ANALYSIS OF MILK.

No. of Sample.	Result of Analysis.	Remarks.
23	Adulterated with 10.0% added Water	Fined 30s. including Costs.
27	6.6% Fats Extracted	The Committee requested the Town
28	10.0% do.	Clerk to write to the owner of each
38	6.6% do.	Sample calling their attention to the
40	10·0% do.	deficiency, and warning them what the
42	8·3% do.	consequence would be should the
43	10.0% do.	offence be repeated.
68	8·3% do.	*
69	Adulterated with 4.0% added Water	Legal Proceedings were not instituted
71	Do. 5.8% do.	owing to the difficulty we have pre-
72	16.7% Fats Extracted and Adulterated with 10.5% added Water (Taken Unofficially)	viously experienced in obtaining con- victions in similar cases.
91	3.0% Fats Extracted	
*93	Adulterated with 5.8% added Water and 10.0% Fats Extracted	Fined 20s. and Costs.
*97	26.7% Fats Extracted	Fined 40s, and Costs.
*98	13·4% Fats Extracted	Fined 30s. and Costs.
122	6.6%Fats Extracted	The Committee requested the Town
123	6.6% Fats Extracted	Clerk to write to the owner of each Sample calling their attention to the deficiency, and warning them what the
157	8 3% Fats Extracted (Sterilized)	consequence would be should the offence be repeated.
164	6.6% Fats Extracted	Legal Proceedings were not instituted owing to the difficulty we have pre- viously experienced in obtaining con- victions in similar cases.

In two Cases both Water had been added and Fat Extracted.

^{*} Samples taken at the Railway Station, each coming from the same Farmer.

FRIED FISH SHOPS.

There are 78 shops in the Borough for the sale of Fried Fish and Chipped Potatoes.

They are remarkably well fitted up and the materials used for cooking are of the best quality. The public now recognise them as a necessity, and we rarely have a complaint regarding them.

They are chiefly established in the most populous parts of the town.

Number on Register . .

COWSHEDS, DAIRIES AND MILKSHOPS.

COWSHEDS.

Trumber on register		
Number of Cows	 	156
One Cowshed has been closed during the year.		
The whole of the Cowsheds are limewashed each year.		
Dairies.		
Number on Register for year ending		
December 31st, 1905	 	13
Number of Applications for Registration	 	2
Mary Cuona		
Milk Shops.		
Number on Register for year ending		
December 31st, 1905	 	451
Number of Applications for Registration	 	74
Number of Milkshops closed	 	45

The above have been regularly inspected and kept in a fairly clean condition.

In a few instances it has been found necessary to warn occupiers of Milkshops for contravention of the Regulations.

INFECTIOUS DISEASE.

During the year 637 cases of Infectious Disease were notified to the Medical Officer of Health.

Enquiries were made into their cause or origin, necessitating 2,548 visits by your Inspectors. 343 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, clothes, &c., disinfected immediately upon the recovery or death of the patient.

583 Bedrooms have also been disinfected.

COMMON LODGING HOUSES.

There are 21 Common Lodging Houses in the Borough, all situate on the north side of the Railway.

The Houses registered contain 166 rooms for sleeping purposes and afford accommodation for 980 Lodgers nightly.

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

MIDDEN PRIVIES.

For many years past the Committee have recognised the desirability of clearing the town of the old type Midden Privies, and every effort has been made to accomplish this desirable end. Each year I am pleased to record there has been a steady decrease in their number. At the beginning of the present financial year in their earnest desire to accelerate progress they decided to assist the Owners of old fashioned property by making a contribution of 30s. for each Double Midden and Privies and 20s. for each Single Midden and Privy where the same had been converted into Pan Closets, or Water Closets, to the satisfaction of your Inspector.

Property Owners generally have taken advantage of this offer, a large number of this obsolete type of conveniences have been converted and many others are on the way.

SMOKE OBSERVATIONS DURING 1905.

Time Limit for Middlesbrough, 15 minutes (Black Smoke) per hour.

No.	Name of Firm.	Address.	Number of Obser'ns	No. of Mir Smoke p	
			taken (60 min.)	Maximum	Average
1	Wm. Richards & Sons	Wray Street	2	133	12.25
2	Sadler & Co., Ltd	Cargo Fleet Road	2	4	2.00
3	Crewdson, Hardy & Co., Ltd	Doek Hill	2	171	13.00
4	N.E. Railway Power Station	Dock Hill	2	11/2	1.75
5	Tees-side Laundry	Parliament Street	1	11	1.50
6	Middlesbrough Guardians	Workhouse	4	8	5.62
7	W. Harkess & Sons, Ltd.	The Docks	3	131	8.66
8	Sir Raylton Dixon & Co., Ltd.	The Docks	4	51	1.75
9	Corporation Baths	Newport Crescent	1	0	0.00
10	Steel Strip & Hoop Co., Ltd	Commercial Street	4	291	25.50
11	R. Craggs & Son, Ltd	Tees Dockyard	4	6	4.37
12	Richard Hill & Co., Ltd	Newport Wire Mills	9	40	13.83
13	John Hill & Co	Fox Heads	3	271	26.66
14	Cleveland Pure Ice Co	Baxter Street	1	1	1.00
15	John Crombie & Sons	West Marsh	2	9	7.00
16	J. & R. Ritchie	Acklam Foundry	2	211	18.50
17	Richardson, Westgarth & Co.,			-	
	Ltd	Commercial Street	2	11/2	0.75
18	Middlesbrough Owners	Cargo Fleet Saw		-	
		Mills	1	0	0.00
19	Grayson, Lowood & Co	Ganister Brick			
		Works	2	18	13.00
20	Acklam Brickworks	Acklam Road	1	0	0.00
21	Newby's Laundry	Linthorpe	1	0	0.00
22	Cleveland Wire Works	West Marsh	1	17	17.00
23	Dorman, Long & Co., Ltd	Ayrton Rolling Mills	1	22	22.00
24	Corporation Electricity Works	Snowdon Road	2	51	5.00

Total Number of Observations .. 57.

We have drawn the attention of Owners to the Nuisance caused by the emission of Black Smoke whenever the time limit has been exceeded.

The Owners have in all cases expressed their willingness to adopt any apparatus on the market that will successfully minimise or cure the Nuisance.

COLLECTION OF NIGHTSOIL, 1905.

MONT	Н		Total Loads Collected	Barged to Sea	Sold to Farmers and others	Amount realized	Number Trips to Sea
						£ s d.	
January		 	3,135	825	2,258	233 3 4	3
February		 	3,144	350	$2,395\frac{1}{2}$	241 1 3	2
March		 	3,083	347	2,536	245 7 9	2
April		 	3,845	381	2,238	194 14 2	2 2
May		 	2,907	638	2,234	202 4 11	3
June		 	2,913	767	1,5111	156 11 7	3
July		 	2,799	2,622	4681	46 18 5	8
August		 	2,745	1,575	8521	84 4 10	5
September		 	3,612	990	1,761	178 4 2	4
October		 	2,192	351	2,286	248 12 3	1
November		 	3,082	330	2,388	255 6 11	- 3
December		 	3,866	625	$2,255\frac{1}{2}$	227 4 8	3
Totals		 	37,323	9,801	23,1841	2,313 14 3	39

In addition to the above over 1,000 loads of Street Sweepings have been barged to sea, the greatest difficulty having been experienced in obtaining suitable tips.

The Sales have been very satisfactory during the year, and we have had a steady demand for this commodity.

SLAUGHTER HOUSES.

Number on Register	(Private)	 	 39
Do.	(Public)	 	 1
Te	otal	 	 40

Only 3 of the above number are subject to annual renewals, the remainder being perpetual licenses to the buildings.

We have not received any applications during the year for additional facilities for slaughtering. This is undoubtedly due to the firm stand taken by the Committee to rather reduce than increase the number of these undesirable licenses, at any rate for the present the Butchers have ceased to agitate, and so far as we have been able to ascertain, no members of the trade have suffered any real inconvenience.

The Committee having renewed the lease of the Public Abattoir in Smithfields for fourteen years, The Middlesbrough Owners have agreed to spend the first five years rent in remodelling the interior and bringing it up-to-date, also paving the approaches, renovating, &c., When the alterations are complete I venture to think that the trade on the North side of the Railway, and the Markets, will be well catered for.

CONCLUSION.

In conclusion I have again great pleasure in recording the hearty co-operation I have at all times received from every member of the Sanitary Staff in carrying out the oftimes difficult and dangerous duties imposed by the Public Health Acts, particularly to my senior Inspector, Mr. Thomas McDonald, are my special thanks due, for his ready and willing assistance at all times.

I am, Gentlemen, your obedient Servant,

GEORGE H. ANDERSON,

Chief Sanitary Inspector.

APPENDIX A.

THE COUNTY BOROUGH OF MIDDLESBROUGH.

Infectious Diseases Hospitals-Report for the year 1906.

To the Chairman (Alderman J. McLauchlan, J. P.) and Members of the Sanatorium Committee.

Gentlemen,—During the year ending December 31st, 1905, there have been 501 Pat ents treated at the Sanatorium.

Of these, 442 were admitted from the Borough of Middlesbrough and 59 were admitted from districts outside the Borough.

There were 27 deaths during the year, equal to a death rate of 5·3 per cent. of the cases treated. In the previous year the death rate was 3·3 per cent.

Scarlet Fever.—There were 84 cases under treatment at the commencement of the year and 327 admissions during 1905. Of these, 50 were Patients from outside districts, the total cases under treatment being 411. Of these, 7 died and 404 were discharged convalescent.

The death rate being 1.7 per cent., in the previous year the death rate was 1.8 per cent.

The death rate amongst cases remaining at home was 2.7 per cent.

Enteric Fever.—Two cases were under treatment at the commencement of the year and 36 cases were admitted. Of these, 30 recovered and 8 proved fatal. The death rate being 21.0 per cent. In the previous year the death rate was 19.5 per cent.

The death rate for cases treated at home being 30.9 per cent.

Diphtheria.—3 cases were under treatment at the commencement of the year and 48 were admitted during the year.

8 of these were from outside districts.

39 recovered and 12 were fatal, the death rate being 23.5 per cent. In the previous year the death rate was 13.3 per cent.

The death rate amongst cases remaining at home was 32.3 per cent.

The operation of Tracheolomony was performed on 6 cases, of which 3 recovered and 3 died.

Disinfection.—As usual the whole of the disinfection of infected bedding and wearing apparel from the town has been carried out at the Sanatorium. For details of the articles disinfected see Table V.

Hospital Staff.—Three members of the Staff contracted infectious diseases during the past year, namely:—one each Enteric Fever, Scarlet Fever and Diphtheria.

The work of the Hospital has been carried out in a very satisfactory manner during the year.

In an Infectious Diseases Hospital, to which children are often compulsorily removed, and to whom the parents do not at all times have access, there are always a certain number of complaints, but I am pleased to report that there have not been any of a serious character during the past year and I can with confidence report that the Matron and Staff endeavour to eliminate all cause for complaint.

Buildings, &c.—The new Extensions have now been in occupation for nine months and are proving satisfactory. The alterations to the Administrative Block, which are much needed, are in progress. The remaining Buildings and Hospital Property are in good order.

Hemlington Smallpox Hospital.

This Hospital has been in occupation twice during the year 1905—in both instances by cases from outside the Borough of Middlesbrough.

In March, a case notified as Smallpox was admitted from the Urban District of North Ormesby, this case was discharged in April.

In June, a suspicious case of Plague was isolated in this Hospital, the patient being a member of the crew of the S.S. "Hylas." 10 men, also members of the crew of this ship, were removed to Hemlington and placed in quarantine. The case having been proved by Bacteriological examination not to be Plague the patient and men were discharged.

The Buildings and Grounds.—These are in excellent order and ready at any moment for the admission of patients.

TABLE 1.—The following cases were admitted to the Sanatorium during the year 1905.

DISEASES	Remaining in Hospital, December 31st, 1904	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Scarlet Fever	84	25	35	32	18	24	25	24	33	26	34	24	27	411
Enteric Fever	2	5		6		3	2	1	2	8	5	4		38
Diphtheria	3	4	6		3	7	5	5	8		4	6		51
Choleraic Diarrhœa							1							1
Totals	89	34	41	38	21	34	33	30	43	34	43	34	27	501

TABLE II.—The admissions in Table I. after observation proved to be.

	Scarlet Fever	Enteric Fever	Diphtheria	Pneumonia	Tuberculosis	Scarlet Fever and Diphtheria	Scarlet Fever and Whooping Cough	Scarlet Fever and Erysipelas	Scarlet Fever and Chickenpox	Choleraic
Scarlet Fever	 404	1				2	2	1	1	
Erteric Fever	 	36		1	1					
Diphtheria	 		50			1				
Choleraic Diarrhœa	 									
Totals	 404	37	50	1	1	3	2	1	1	

TABLE III.—The following Deaths occurred at the Sanatorium during the year 1905.

DISEAS	SES		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Scarlet Fever		 	1	1	1	1		1		1		1			7
Enteric Fever		 	2	1	1						1	2		1	8
Diphtheria		 		1	2			1	1	4		2	1		12
Totals		 	3	3	4	1		2	1	5	1	5	1	1	2

TABLE IV.—The following Cases were admitted to the Sanatorium from Outside Districts.

DISEASES		January	February	March	April	May	June	July	August	September	October	November	December	Totals
Scarlet Fever	 	2	5	10	3	5	3	2	1	5	5	9		50
Diphtheria	 	1				5	1					1		8
Choleraic Diarrhœa	 						1						.1	1
Totals	 	3	5	10	3	10	5	2	1	5	5	10		

The above Cases were admitted from the following places:-

			59
River Tees	* *		1
Acklam		1.1	1
Yarm			2
Normanby			2
Hutton Rudby			2
Great Ayton			3
Stokesley			5
North Ormesby			16
Thornaby			27

TABLE V.-The following Articles were removed to the Sanatorium and Disinfected.

		Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals.
Beds	:	4	60	-	50	10	10	-	O1	10	-	1-	Ç1	7.1
Mattresses	:	9	:	-	10	01	12	01	:	12	0	2	Q1	55
Blankets	:	48	31	56	6	15	46	92	30	54	33	34	49	403
Quilts and Sheets	:	75	52	40	25	35	65	39	54	55	53	57	107	617
Pillows	:	20	24	55	6	13	31	15	35	58	82	27	47	329
Bolsters	:	11	6	6	寸	+	00	60	6	G1	ũ	1-	9	10
Bed Hangings	:	4	:	9	01	:	-	:	01	:	1	01	4	86 .
Carpets	:	1-	1	60	:	:	:	:	:	:	:	:	-	12
Rugs and Mats	:	01	1	60	:	-	:	:	1	:	:	-	:	6
Cushions	:	:	60	-	+	1	9	9	60	+	11	1-	6	25
Wearing Apparel		425	210	253	139	240	156	191	300	258	229	258	259	2,918
Sundry other Articles	:	27	14	60	40	10	153	31	18	4	11	30	1-	368
Totals	9	929	348	388	262	328	483	346	454	397	378	435	459	4,934

APPENDIX B.

FACTORY AND WORKSHOPS ACT, 1901.

REPORT ON THE ADMINISTRATION OF THIS ACT IN THE COUNTY
BOROUGH OF MIDDLESBROUGH FOR THE YEAR 1905.

On January 1st, 1905, there were 430 Workshops on the Register: during the year 51 new ones have been added, and 105 closed and struck off the Register. The number on the Register at the end of the year being 376, a decrease of 54.

1,289 Inspections have been made and 128 defects or contraventions of the Act have received attention.

Workplaces.—There are 45 Workplaces on the Register, 3 have been opened during the year and 1 closed. 22 visits have been made and no cause for complaint found. These places include the Kitchens of Hotels, Restaurants, Tea Rooms, &c.

Domestic Workshops.—These consist of ordinary living rooms where members of the family dwelling there carry on various trades, such as dressmaking, tailoring, baking stocking knitting, shirt making, etc. There are 254 now on the Register.

106 Visits have been made, and the occasions when it has been necessary to call the attention of the occupiers to the cleanliness, etc., of the premises have been very rare.

The desirability of the inspection of these premises is shown by the fact that on one occasion the work (stocking knitting) was being carried on whilst a child was lying in the same room suffering from Diphtheria. In this case prompt measures were taken, all work being at once suspended and the room and all the materials in it thoroughly disinfected.

Outworkers.—There are 33 firms in the Borough employing Outworkers. 58 lists have been received containing the names of 132 persons. Many of these are employed by more than one firm, the number of individual workers being 82, they are engaged in the following trades:—

Tailoring and Tailors	'Alterat	ions		35
Shirt and Undercloth	ning Mak	ing		28
Hosiery Knitting				7
Boot and Slipper Ma	king and	Rep	airing	5
General Sewing				6
Mattress Making				1
	Total			82

The greatest difficulty has been experienced in getting the various firms to send in their lists, and with a few exceptions it has only been possible to obtain them by threatening prosecution. 173 Inspections of the premises where this work is done have been made, and, generally, the conditions found have been satisfactory.

Bakehouses.—There are 43 Bakehouses now on the Register, 16 having been added during the year. Only one of these is an underground Bakehouse, the Certificate for which is a temporary one and will expire in February, 1906.

152 Inspections have been made, and the following contraventions and defects met with and remedied.

Bakehouse to cleanse and limewash	 4
Defective Closet accommodation	 2
Foul Drain in Yard	 3
Dilapidated Bakehouse Floor	 1
Total	 10

FACTORIES.

During the year a systematic inspection of the Factories of the town has been made with a view to ascertaining what provision is made in order to conform with the requirements of the Public Health Acts respecting Sanitary conveniences. 183 Inspections were made, and the undermentioned contraventions were found and successfully dealt with:—

Unsuitable or defective Sanitar	y acco	mmodat	ion		26
Insufficient Sanitary accommod	lation				7
No separate Sanitary accommo	dation	for diffe	erent s	exes	1
Other nuisances					3
Contravention of Bye-Laws					1
		Tota	1		38

WORKSHOPS ON THE REGISTER, DECEMBER 31st, 1905.

Number and Nature of the various Trades.

Dress and Mantle	Making	65	Sugar Boilers and Confectioner	6
Milliners		23	Salt Packers	4
en		49	Beer Bottlers	3
Boot Makers and	Repairers	44	Saddlers	3
Joiners and Cabir	et Makers	44	French Polishers	2
Hosiery Knitters		12	Coopers	2
Bakers		43	Paper Bag Makers	2
Plumbers		11	Mattress Makers	2
Blacksmiths		7	Weight and Scale Repairers	2
Watchmakers		3	Marine Stores (Rag Sorting, &c	e,) 2
Tinsmiths		3	Electrical Workshops	2
Coach Builders		4	Engravers	2
Picture Framers		4	Brush Makers	2
Upholsterers		3	Lubricating Bag Makers	2
Cycle Repairers		3	Various other Trades	20
Slipper Makers		2		
**				376

WORKSHOPS ADDED TO REGISTER DURING 1905.

Nature of Ti	rades			Num	ber of	each
Dressmakers				 	20	
Boot Makers and	Rep	airers		 	8	
Tailors				 	7	
Joiners and Cabi	net M	lakers		 	2	
Hosiery Knitters				 	2	
Upholsterers				 	2	
Salt Packers					2	
Various other Tra	ades			 	8	
					-	
			Total	 	51	

The following Tables are included at the request of the Secretary of State :-

FACTORIES, WORKSHOPS, LAUNDRIES, WORKPLACES AND HOMEWORK.

1.—Inspection.

Including Inspections made by Sanitary Inspectors of Nuisances.

					N	umber of
Premises.	Insp	ections.	Written Notices.			
Factories (including Fact	ory La	aundrie	s)		183	38
Workshops (including W	orksho	p Laun	dries)		1,289	90
Workplaces					22	Nil.
Homeworkers' Premises					173	Nil.
		Tot	al		1,667	128

2.—Defects Found.

		-				
					Number	of Defects.
Particulars.					Found.	Remedied.
Nuisances under the Public Hea	alth A	cts :-				
Want of Cleanliness					23	23
Want of Ventilation					4	4
Other Nuisances					12	12
*Sanitary Accommodation :-						
Insufficient					9)	
Insufficient Unsuitable or Defective					54 65	63
Not separate for Sexes			٠		2)	
Offences under the Factory and	d Wo	rkshop A	ct :-			
Breach of special sanitary	y requ	uirement	s for I	Bake-		
houses (SS. 97 to 100)				4	4
Failure as regards lists of	Outv	vorkers (S. 107)		17	17
Giving out work to be do	ne in	premise	s which	h are		
infected (S. 110)					2	2
Other Offences					1	1
		Total			128	126
						-

^{*} Public Health Acts, A.A. 1890, has been adopted.

Standard of sufficiency:—Generally one Closet for each 20 persons, except in the large Factories.

Standard of suitability: -Closets to conform with Local Building Bye-Laws.

3.—Other Matters.

Class.	Number.
Matters notified to H.M. Inspectors of Factories :-	
Failure to affix Abstract of the Factory and Workshop Act ((S. 133) 24
Action taken in matters referred by H.M. Inspectors as remed the Public Health Acts, but not under the Factory Act (
Notified by H.M. Inspectors	9
Reports (of action taken) sent to H.M. Inspe tors	
Underground Bakehouses (S. 101):—	
Certificates granted during the year	Nil.
In use at the end of the year	1
Homework: Lists.	Number of Outworkers.
Lists of Outworkers (S. 107) :—	Outworkers.
Lists received 58	132
Addresses of Outworkers forwarded to other	
Authorities 4	
Homework in unwholesome or infected premises :— Cases of infectious disease notified in homeworkers' premises Orders prohibiting homework in infected premises (S. 110)	
Total number of Workshops on Register 376	