Contributors

Middlesbrough (England). County Borough Council.

Publication/Creation

1928

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of Middlesbrough.

HEALTH DEPARTMENT.

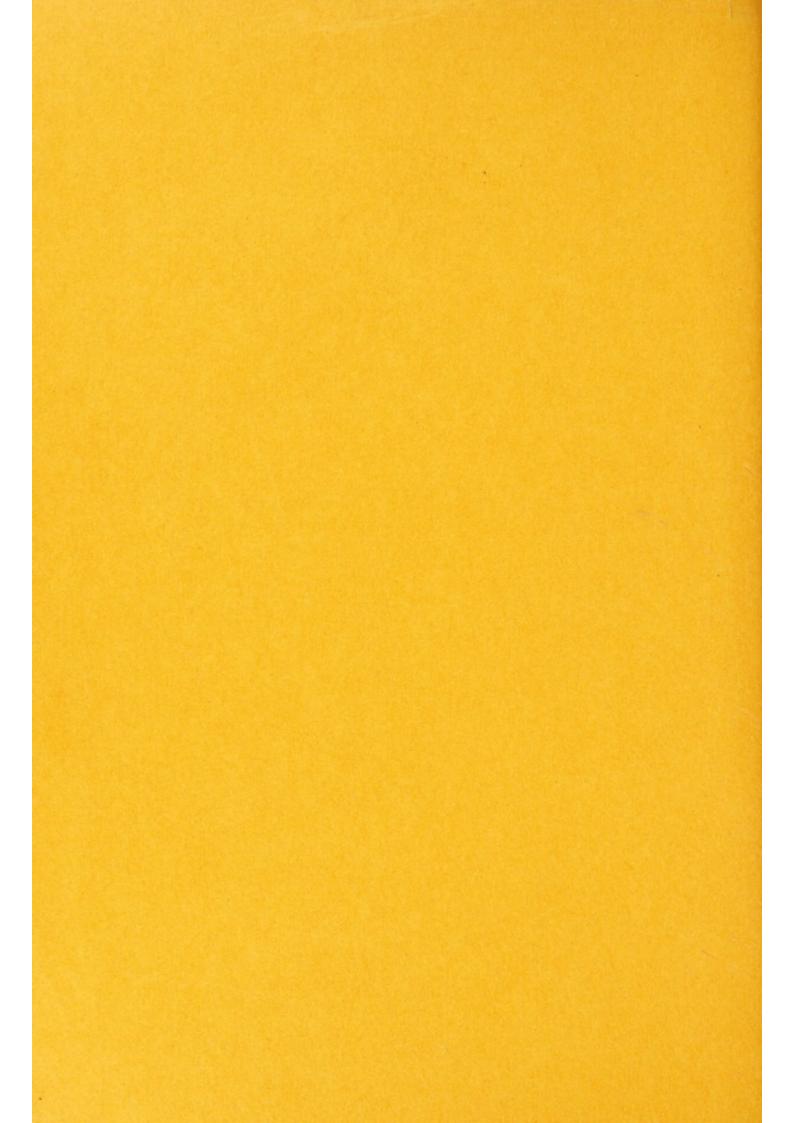
Annual Report

AND

Vital and Mortality Statistics

For the Year 1928.

JORDISON & Co., LTD., PRINTERS, LITHOGRAPHERS, &c.



County Borough



of Middlesbrough.

HEALTH DEPARTMENT.

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COUNTY BOROUGH OF MIDDLESBROUGH.

Members of the Sanitary Committee, 1928-9.

Chairman—Alderman A. Mattison.

HIS WORSHIP THE MAYOR (COUNCILLOR G. ALEXANDER.)

ALDERMEN W. J. BRUCE, O.B.E., J.P., G. A. CAREY, J. FORBES, J.P., J. RODDY, A. WEATHERHEAD, M.B.E., J.P.

COUNCILLORS A. ELSTROP, MRS. H. GUTHRIE, H. D. LEVICK, M.B., J.P., MRS. H. M. LEVICK, M.D., S. LEVY, A. MARSHALL, T. MEEHAN, J. NUGENT, J. G. PALLISTER, W. E. PRICE, B. RAMSEY, E. SPENCE, J.P., P. SULLIVAN, A. TODD, J. G. WADDINGTON, J. WRIGHT.

Members of the Sanatorium Committee, 1928-9.

Chairman-Councillor J. G. Pallister.

HIS WORSHIP THE MAYOR (COUNCILLOR G. ALEXANDER.)

ALDERMEN W. J. BRUCE, O.B.E., J.P., J. FORBES, J.P., A. MATTISON, T. G. POOLE, J.P., S. A. SADLER, J.P.

Councillors F. Carey, A. Cooper, W. Eckert, H. D. Levick, M.B., J.P., Mrs. H. M. Levick, M.D., A. Marshall, W. J. O'Neill, P. Sullivan, J. Welch.

Members of the Maternity and Child Welfare Committee, 1928-9.

Chairman-COUNCILLOR MRS. H. GUTHRIE.

HIS WORSHIP THE MAYOR (COUNCILLOR G. ALEXANDER.)

MRS. M. E. HEWITSON, MISS I. M. EACOTT, MRS. KEDWARD, MRS. BRUCE, MRS. STANLEY A. SADLER, MRS. THOMAS, MRS. TRURAN, MRS. TURFORD, DR. J. E. HOWELL.

ALDERMEN A. CAREY, J. FORBES, J.P., A. MATTISON, J. RODDY.

COUNCILLORS J. WESLEY BROWN, F. CAREY, MRS. MARION COATES-HANSEN, J. HAMILL, J.P., H. D. LEVICK, M.B., J.P., MRS. H. M. LEVICK, M.D., J. NUGENT, B. RAMSEY, P. SULLIVAN, J. TAYLOR, J. WELCH.

STAFF.

Medical Officer of Health and Superintendent of Hospitals CHAS. V. DINGLE, M.D., B.S., B.HY., D.P.H.

also acts as School Medical Officer and Medical Officer to the River Tees Port Sanitary Authority.

Assistant Medical Officer of Health :

W. S. WALTON, M.B., B.S., B.HY., D.P.H. (appointed Feb., 1928).

also Assistant Port Medical Officer to the River Tees Port Sanitary Authority.

Tuberculosis Officer :

[†]F. J. HENRY, M.C., M.B., F.R.C.S., D.P.H. (Barrister-at-Law).

Maternity and Child Welfare Medical Officer : MRS. GRACE H. GIFFEN DUNDAS, F.R.C.S., D.P.H.

Venereal Diseases Medical Officer (Part Time) : ARTHUR BRYANS, L.R.C.P. & S. (ED.), L.R.F.P.S. (GLAS.).

Chief Sanitary Inspector:

*††Thomas P. Dixon, Mem. S.I.A., Mem. R.S.I.

Assistant Sanitary Inspectors :

†A. W. LUCAS (Factories, Workshops, &c.) *†S. E. Ellis (Food and Drugs). †M. GUTHRIE.

†‡Miss L. Bell (Supervisor).

[†]H. WATSON.

*†J. N. MARTIN.

Health Visitors :

^{‡§} Miss M. Nesbitt. 1§ MISS R. SPITTEL.

18 Miss A. G. Todd.

††Miss M. A. Blake. †‡§||MISS M. VEITCH.

Nurses :

[†]Miss P. Stockton (Tuberculosis).

¶[‡]Miss D. E. Hall (Tuberculosis).

[†]Miss M. Owen (Tuberculosis).

MISS G. VAUGHAN (Measles). ¶[‡]MISS I. BONE (Appointed August, 1928—Measles).

R. JAMES.

J. E. DODSWORTH.

MISS H. DANBY.

[†]Mrs. C. Waller.

Matrons :

MRS. B. GARDNER: Fever, Smallpox and Tuberculosis Hospitals. §[†] MISS ANNIE DAVIES : Municipal Maternity Home and Children's Hospital. (Resigned February, 1928).

§[†]MISS D. BEARD (appointed March, 1928).

Clerks :

[†]John W. Rawdon. P. E. TAGGART. T. E. Peterson ‡MISS E. LAKIN [†]MISS E. ANDREWS.

Foremen Scavengers :

GEORGE STEVENSON (resigned Nov., 1928). THOMAS WILSON.

*Meat Inspector's Certificate of R.S.I. Sanitary Inspector's Certificate of R.S.I. Salaries rank for Exchequer Grant.

Scertificate of Central Midwives' Board. ||Health Visitor's Diploma, Board of Education. ¶State Registered Nurse.

*†H. WHITFIELD (Assist. Food Insp.)

*†R. LEGGATT.

*†A. C. WALKER.

THE HEALTH DEPARTMENT, MUNICIPAL BUILDINGS, MIDDLESBROUGH,

JUNE, 1929.

TO THE CHAIRMAN (ALDERMAN A. MATTISON) AND

Members of the Sanitary Committee.

LADIES AND GENTLEMEN,

I have the honour to present for your consideration my Thirtieth Annual Report on the Health of the County Borough of Middlesbrough.

Compared with the previous year there is an increase in the Death Rate by one per 1,000 of the population, although the actual deaths registered were 28 fewer than in the previous year. The increase in the rate is due to the estimated population for the year 1928 having been reduced by the Registrar General from 133,600 in 1927 to 131,700 for 1928; this latter figure is only 630 above the Census figure of 1921.

The birth rate which has been declining during the past seven years shows a considerable increase on that of the previous year.

INFANTILE MORTALITY.—There is no unfavourable change in this year's rate which is only one per 1,000 higher than the rate for the previous year. It is very satisfactory to note that the high Infantile Mortality rates which have been prevalent in various wards, *e.g.*, Cleveland, Cannon, Newport, Ormesby, St. Hilda's and Vulcan, are at last showing signs of improvement and although still high, they are now much below the average rates in these wards for the past ten years.

INFECTIOUS DISEASES.—With the exception of Measles, Whooping Cough and Chicken-pox, there have been remarkably few notifications and the death rates from the chief notifiable diseases compare very favourably with those of the County Boroughs and Great Towns of England and Wales.

SMALLPOX.—There have been no cases of this disease notified since the beginning of September last.

HOUSING.—Under Housing Schemes, 111 houses have been erected in an area which was just outside the Borough boundary. This area is being taken into the County Borough.

The total houses erected during 1928 was 297, which approximates to the pre-war yearly increase. Twelve flats, in three blocks, each flat consisting of one living room, two bedrooms, scullery and bathroom, are being erected on the area of the Dacre Street demolition scheme. These flats are close to the works and help to meet the demand of the population of that district for house accommodation near their work.

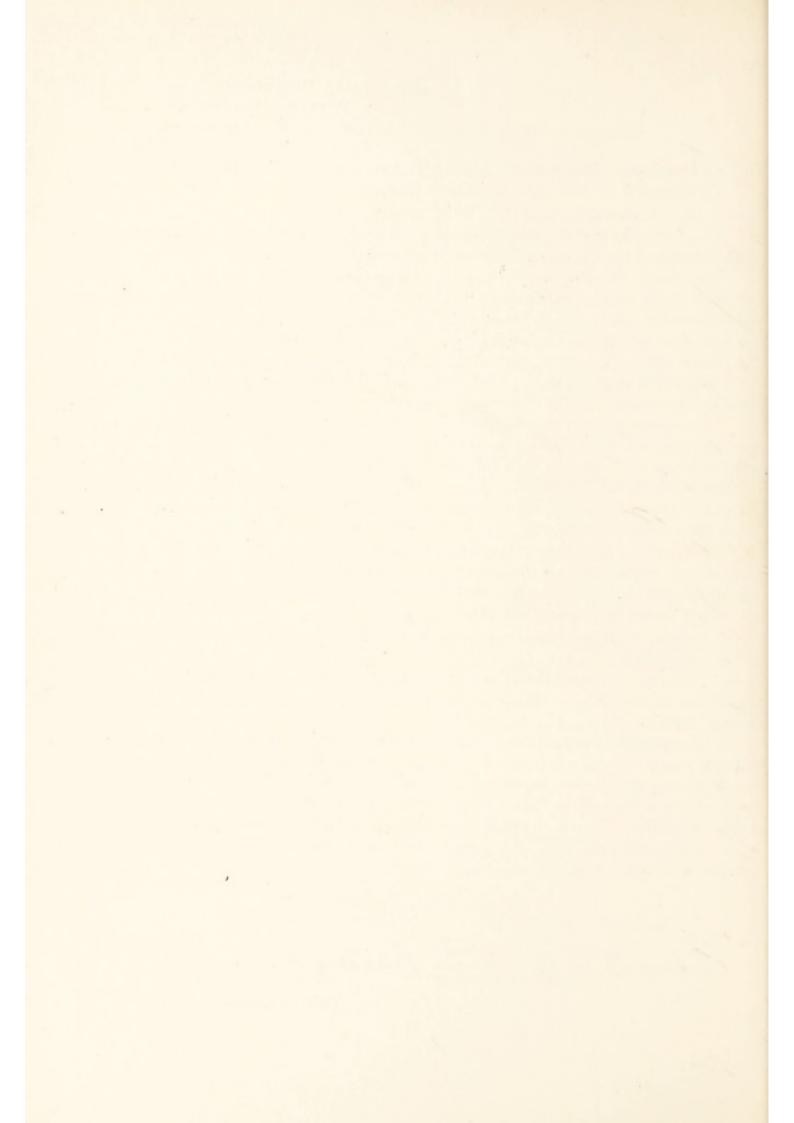
During the year 1928, there was no outstanding feature affecting the health of the Borough which continues steadily to improve.

I have the honour to be,

Your obedient servant,

Charles V. Drigle,

Medical Officer of Health.



ANNUAL REPORT of the Medical Officer of Health for 1928.

STATISTICS AND SOCIAL CONDITIONS OF THE AREA.

Area (in acres): 4,323 (including 173 acres of tidal land).
Population: (Census 1921, and estimated 1928):— Census, 1921 131,070 Estimated, 1928 131,700
Number of Inhabited Houses (1921): 25,541.
Number of Families or Separate Occupiers (1921): 27,891.
Rateable Value: £656,132 0s. 0d.
Sum represented by a penny rate: £2,285 0s. 0d.

EXTRACTS FROM VITAL STATISTICS OF THE YEAR.

			Male.	Female.	Total.	Birthrate :
BIRTHS :	Legitimate		1,587	1,475	3,062	26.12 per 1,000 per annum.
	Illegitimate		77	80	157	
DEATHS :	Total 1,757.]	Deathrate :	14.26 per	r 1,000 pe	r annum.

Number of Women dying in, or in consequence of, Childbirth :---

From Sepsis	 		5
From other causes	 • •	• •	12

Deaths of Infants under one year of age per 1,000 births :---

	Legitimate. 82	Illegitimate. 134	1	l'otal. 88				
Deaths from	Measles (all age	s)						33
,,	Whooping Coug	th (all ages)	• •			•••	• •	32
"	Diarrhoea (und	er 2 years)	• •		•••	• •	• •	51

VITAL STATISTICS.

Population.—At the Census of 1921, the population enumerated was 131,070, consisting of 66,166 males and 64,904 females. The Registrar General has estimated the population of the County Borough of Middlesbrough for 1928 at 131,700.

Births.—The number of births registered during 1928 was 3,252, the nett births being 3,219, males 1,664, females 1,555, giving a birth rate of 26.12 per 1,000 of the estimated population.

The notified births totalled 3,147, being 105 less than the registered births.

Illegitimate births numbered 157, being an increase of 12 on the previous year.

Deaths.—The number of deaths registered in the Borough during 1928 was 1,905, giving a crude death rate of 15.45 per 1,000 of the estimated population. The nett deaths of persons belonging to the district was 1,757, giving a death rate of 14.26 per 1,000. The rate for England and Wales during 1928 was 11.7 per 1,000.

The death rates per 1,000 estimated population in the various Wards of the town during 1928 were :---

Ayresome	Ward		 	10.16
Acklam	,,		 	9.91
Cannon	,,		 	16.26
Cleveland	,,		 	12.84
Exchange	,,		 	10.50
Grove Hill	,,		 	12.21
Linthorpe	,,		 	13.14
Newport	,,		 	17.67
Ormesby	,,		 	9.99
St. Hilda's	,,		 	21.16
Vulcan	,,	•••	 	22.10

INFANTILE MORTALITY.

The nett number of deaths under one year of age was 286, equal to an infantile mortality rate of 88 per 1,000 births.

Ward.		1927	1928
Ayresome	 	 56	112
Acklam	 	 38	36
Cannon	 	 107 *	104
Cleveland	 	 82	87
Exchange	 	 61	85
Grove Hill	 	 64	43
Linthorpe	 	 77	81
Newport	 	 129	118
Ormesby	 	 95	81
St. Hilda's	 	 128	115
Vulcan	 ••	 88	102
Whole Borough	 	 87	88
England and Wales	 1	 69	65

Infantile Mortality Rates in the various Wards per 1,000 Births.

For further particulars relating to Infant Mortality see the Report of the Maternity and Child Welfare Medical Officer, pages 60 to 66.

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HOSPITALS PROVIDED BY THE LOCAL AUTHORITY.

A. (1) FEVER: West Lane.—There are 200 beds for the usual notifiable diseases.

(2) SMALLPOX : Hemlington.—There are 100 beds.

- B. (1) TUBERCULOSIS: West Lane.—30 beds and 3 huts.
 Broomlands.—Six beds are retained for surgical tubercular cases.
 - (2) MATERNITY: Municipal Maternity Hospital, Park Road North. There are 19 beds for Maternity cases.
 - (3) CHILDREN'S HOSPITAL: Municipal Children's Hospital, Park Road North. There are 15 beds for infants under 5 years of age.
 - (4) OTHER: Children's Cripples Home. The Davison Holiday Home at Danby, supported by voluntary contributions, to which crippled children are sent. About 100 are received for three weeks each in the summer months.

INSTITUTIONAL PROVISION FOR UNMARRIED MOTHERS, &C.

There is provision for these at the Holgate (Guardians) Hospital, and at the Holy Cross Refuge. The latter is a Church of England Institution and receives a grant from the Local Authority. It provides for unmarried mothers.

- HOMELESS CHILDREN : Guardians Children's Homes, Nazareth House (R. C.), 206, Holy Rood Orphanage (C. E.) 16, and a branch of Dr. Barnardo's Homes (Undenom) 24.
- CLEANSING STATION: 52, Bridge Street West. This is a small Cleansing Station, fitted with a steam disinfector and baths, for dealing with verminous persons.

Ambulance Facilities :---

- (1) For infectious diseases there are three motor ambulances.
- (2) For non-infectious cases and accidents there are two motor ambulances provided by the Town Council.

CLINICS AND TREATMENT CENTRES.

	ORDINARY CHILD					
HELD AT	WELFARE MEETINGS.					
5, The Newlands.	Mondays 2 p.m.					
Settlement Hall, Church Street.	Mondays 10 a.m. Tuesdays 2 p.m.					
Market Place.	Wednesdays 2 p.m.					
Settlement Hall Church Street.	Thursdays 2 p.m.					
Mount St. Mary, North Ormesby.	Fridays 2 p.m.					
The Institute, Grove Hill.	Tuesdays 10 a.m.					
	5, The Newlands. Settlement Hall, Church Street. Market Place. Settlement Hall Church Street. Mount St. Mary, North Ormesby. The Institute,					

(a) Maternity and Child Welfare Centres (Consultation and Treatment) :---

Each of the above Centres has a special Ante-Natal Clinic once each month. An Ante-Natal Clinic is also held weekly at the Maternity Hospital and another at the Poor Law Infirmary.

At all the Centres "Toddlers" from 1 to 5 years are received at each session and are examined and supervised.

These Centres have voluntary workers working under the direction of the Medical Officer for Maternity and Child Welfare and the Health Visitors.

(See Report on Maternity and Child Welfare-pages 60 to 66).

(b) Day Nurseries :--

The Middlesbrough Settlement Committee opened an experimental Day Nursery for a few months during last year. It is hoped that this school will be re-opened on a more permanent basis in the present year.

(c) School Clinic :--

This is held at 56, Grange Road, daily from 9 a.m. to 12 noon for consultations and treatment of minor ailments, and every Saturday morning for refractions.

(d) Dental Clinic :--

This also is held at 56, Grange Road, daily, and is attended by a whole-time dentist.

(e) Tuberculosis Dispensary :---

35, Grange Road. Open daily from 9 a.m. to 5 p.m. and attended by the Tuberculosis Medical Officer, who has a staff of three nurses and two clerks.

(See Tuberculosis Medical Officer's Report-pages 50 to 53).

(f) Venereal Diseases Clinic :---

7, Grange Road. Open on Mondays and Fridays at 8-30 a.m. and 5-30 p.m. for Males, and on Wednesdays at 5-30 p.m. for Females; and also every week-day morning and every week-day night (except Wednesdays and Saturdays) at 8-30 and 5-30 for irrigation of Males. Treatment is carried out by a part-time Medical Officer, one male and one female attendant and two clerks.

(See the Venereal Diseases Officer's Report-page: 54 to 59).

(g) Orthopoedic Clinic :---

A Clinic for children of school age and also for Infants up to five years of age is held once monthly. A Surgeon from Kirby Moorside Orthopoedic Hospital attends this Clinic and selects suitable cases for treatment. This Clinic is provided jointly by the Education and Maternity and Child Welfare Committees.

(h) Artificial Light Clinic :--

A Clinic is held weekly at the Maternity Hospital for Infants and young children (see report of Maternity and Child Welfare Officer). This Clinic is provided by the Maternity and Child Welfare Committee and has also been used by the Education Committee.

(i) Summer Camp (Marske) :---

Held each summer. Open for four months. 700 school children treated annually. This is provided by the Education Committee.

PROFESSIONAL NURSING IN THE HOME.

(a) General :---

This is provided by the Middlesbrough and District Nursing Association. The Association is supported by voluntary contributions, but receives grants from the Local Authority for various services, *e.g.*, home nursing of Tuberculosis, Puerperal Fever, Pneumonia, Ophthalmia Neonatorum, Expectant and Nursing Mothers, and Infants under 5 years of age, if required. These cases are referred to the Association by the Departmental Medical Officers of the Local Authority.

(b) Infectious Diseases :--

Two whole-time nurses are employed by the Local Authority to visit, and when necessary, nurse cases of Measles and Chickenpox. Temporary nurses are engaged as required.

(c) Midwives :--

There are 44 Midwives practising in the Borough, 40 of whom are trained and 4 are untrained.

LABORATORY WORK.

The Bacteriological and Pathological work is sent to the Clinical Research Association, London.

The Chemical Analyses are done by Messrs. Scholes and Jackson, of Middlesbrough.

Specimen.		Positive.	Negative.	Total.
—				
Swabs (Diphtheria)		49	128	177
Spinal Fluid (Cerebrospin	nal.)		2	2
Blood (Enteric Fever)		5	13	18
Lung and Spleen (Tuber	culosi	is) 2		2
Blood (Malaria)			1	1
Faeces (Dysentery)			1	1
Rats (B. Pestis)			8	8
Water		(2
Milk (B. Coli.)		40	103	143
Milk (B. T.B.)			36	36

BACTERIOLOGICAL EXAMINATIONS-1928.

SERUMS, VACCINES, ETC., ISSUED.

Salvarsan Substit	utes issu	led	to :—					
	Treatm	ent	Centre and	Hospitals	1			1,106
	General	Pr	actitioners					41
And-Diphtheritic	Serum				at	2,000	units	34

OUTFITS SUPPLIED.

Diphtheria Swabs		 	 . 159
Widal (for Enteric)		 	 . 13
Wassermann (For V. D	.)	 	 . 109

ADOPTIVE AND LOCAL ACTS AND BYELAWS.

There have been no additions or alterations during the past year.

SANITARY CIRCUMSTANCES OF THE AREA.

Water :--

The supply is that of the Tees Valley Water Board. During the year samples have been submitted for both Chemical and Bacteriological examination and the water has been found satisfactory, both in quality and quantity.

Chemical Analy	sis		Grains	per gallon.
Total Solids		 		7.7
Combined Chlorine		 :.		0.7
Nitrous Nitrogen		 		Nil
Am. Nitrogen		 		0.0007
Alb. Nitrogen		 		0.0059
Lead		 		Nil
Temporary Hardne	ess	 		5.3
Permanent Hardne		 		0.9
Total Hardness		 		6.2

Bacteriological Analyses :---

Average Number of Organisms

at 20.22C for 3 days	 		194 per c.c.
B. Coli	 	not found in	100 c.c.
Streptococci	 	present in	30 c.c.
B. Enteriditis Sporogenes	 	present in	100 c.c.

Drainage and Sewers :---

The length of new Sewers laid during the year was 500 lineal yards, ranging from 9 to 18 inches diameter.

Report of the Chief Sanitary Inspector for the Year 1928.

SANITARY INSPECTION OF THE AREA.

DESCRIPTION OF WORK CARRIED OUT.

Number of Inspections made						9,503
Number of Re-inspections made						16,511
Number of Food inspections						10,883
Number of Notices and Letters served						7,481
Drainage :						
Smoke Test applied to new drains						492
Drains re-constructed						158
Cleansed and repaired						416
Sink waste pipes trapped or renewed						101
Defective yard gullies						29
Grates provided for gully traps						33
Drains cleared with Cooper's Vacuum	Pump	p (free o	of cost	to own	ers)	2,800
Defective gully covers	• • •				••	35
Water Closets :						
Provided with a sufficient water supp	ly					89
Basins renewed						17
Cisterns repaired or renewed						259
Foul water closet drains						146
Defective closet doors				·		220
Dilapidated closet seats						29
Defective closet roofs						224
Defective joint between flushpipe and	l wate	rcloset	basin			8

Hou	ises :							
	Cleansed and limewashed .							 180
	Roofs, &c., repaired .							 312
	Water spouts fixed or repa	ired						 1,094
	New sinks fixed							 69
	Accumulations of refuse or	manu	re rer	noved				 2
	Nuisances arising from the	keepin	ng of	Anima	ls, Pou	ltry, &	c.	 2
	Pavements of yards repaire	-						 192
	New floors laid or repaired							 297
	Provided with a sufficient a		of w	ater				 32
	TH 11 1 1 1							 21
	Dilapidated dustbins .							 2,541
	Defective chimneys .							 45
	Defective ceilings							 124
	Defective sashcords and win	ndows						 253
	Defective fireplaces .							 49
	Defective fireranges .							 116
	Defective walls							 516
	Defective ovens							 32
	Dilapidated setpots .							 91
	Dilapidated setpot firebars							 40
	Defective handrails .							 25
	Dirty premises							 4
	Defective flues							 35
	Defective yard doors .							 142
	Dilapidated back passage st							 170
	Dilapidated panhole doors							 2
	Miscellaneous works not cla							 791
	Number of Housing Cards of							 170

The above defects were satisfactorily remedied during the year.

The attention of the	e Borough	Engineer 1	has been	called to	the	following	defects :
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Apparently	dangerous	struct	ures	 	 78
Miscellaneou	ıs			 	 21

SANITARY CONVENIENCES.

No alteration has taken place during the year. There are only 89 privy closets in existence, these being in the Nile Street Area.

INFECTIOUS DISEASES.

During the year 909 houses have been inspected incurring 3,275 re-inspections, owing to cases of Infectious Disease (including Tuberculosis), and reports made to the Medical Officer of Health.

The number of inhabited rooms disinfected owing to cases of Infectious Disease and Vermin was 2,335.

CLEANSING OF VERMINOUS PERSONS.

During the year a regular inspection has been made of the Common Lodging Houses and Houses-let-in-Lodgings within the Borough. The Registered Keepers have readily co-operated with the Department and notified the Inspector on his visits as to any Lodgers who are in a dirty or verminous condition. Nine men found to be in a verminous condition have been sent to Holgate (Guardians) Institution during the year for cleansing.

Nine school children have been dealt with at the Cleansing Station, and their homes and bedding, together with the other inmates, have been thoroughly disinfected.

REFUSE COLLECTION AND DISPOSAL.

A regular weekly collection has been made from the 28,721 houses and shops within the Borough. The collection is made by 14 horse drawn vehicles and 9 motor vehicles (consisting of 6 Ford Tonners and 3 S.D. Freighters).

During the year 27,539 loads of refuse were collected; 14,143 loads representing 16,972 tons by horse-drawn vehicles, and 12,855 loads representing 18,212 tons by motor vehicles. The motors are worked in those outlying districts where the time taken in disposing of the load is greater than the time taken by the loaders in loading the vehicle following up.

35,184 tons represent 263.55 tons per 1,000 population per annum or 14.4 cwts. per 1,000 population per day. This figure cannot be considered high, as from the recent return issued by the Ministry of Health on Public Cleansing the average for the various towns and cities with a total population of $12\frac{3}{4}$ millions is 16.5 cwts.

Considerable economy will be effected in many domestic budgets if those responsible will ensure that ashes and cinders are completely burned before being placed in the receptacle. 72,033 bags of waste paper and light refuse matter were collected free of charge from the shops within the Borough. This is disposed of chiefly at the Swimming Baths and undoubtedly it is a cheap fuel whereby the whole of the steam raising plant is fed.

Household refuse was disposed of by barging to sea and tips. Two hoppers were employed for the disposal of refuse at sea, and 79 trips were made, 20,033 tons of refuse being disposed of. 14,186 tons of refuse were disposed of at the tips and 965 tons were sold to Farmers as manure.

The costs of Collection and Disposal from the figures in the Estimates supplied by the Borough Accountant are as follows :—

Cost of Collection	 	 	 £14,473
Cost of Disposal	 	 	 £4,549

The costs for Collection and Disposal are fairly stationary considering that 297 houses which have been built and inhabited during the year are situated in districts which are the farthermost points in respect to Disposal. The majority are built on the Garden City principle with no back streets, and consequently considerably more time is involved in Collection. From the Report on Public Cleansing issued by the Ministry of Health our costs compare most favourably with those of other towns and cities (with a total population as stated earlier,) the average cost per 1,000 houses for Collection and Disposal being £828 against Middlesbrough's £680. I feel sure that you will appreciate that every effort is made to combine efficiency with economy.

COLLECTION AND DISPOSAL OF ORGANIC REFUSE.

The Organic Plant has been in full work during the year and again I am pleased to report that the Plant has been successful and a profit of approximately £400 was realised on the year's working.

The undermentioned Organic Waste, &c., was dealt with :--

Diseased Meat				 	$5,588\frac{1}{2}$ s	tones
Organic Waste from	a Sla	ughter	houses	 	13,386	,,
Fish Offal				 	$29,336\frac{1}{2}$,,
Dead Dogs and Cat	s			 	$1,357\frac{1}{2}$,,
Fish Scrappings				 	$301\frac{1}{2}$,,

The following manufactured products were sold :--

				£	8.	d.
Fish Meal	 43 tons			685	1	1
Meat Meal	 $9\frac{3}{4}$,,			137	11	0
Blood Meal	 $1\frac{3}{4}$,,		·	27	14	0
Fertiliser	 $28\frac{1}{2}$,,			197	18	0
Tallow-White	 9 ,,			272	5	0
,, Green	 61, ,,	•••		125		1
	Total In	come	£	1,446	0	2

RATS AND MICE (DESTRUCTION) ACT, 1919.

During the year 37 complaints have been received of Rats infesting houses, shops or warehouses within the Borough. 129 visits were paid and every advice and assistance given, and although only 48 Rats were found dead, it is impossible to estimate the total number of Rats actually destroyed as a large number must have died in their holes.

The 3 Official Rat Clubs have continued their operations against these pests with good results; 249 places have been visited and 2,616 Rats have been killed.

SANITARY CONDITIONS OF THEATRES AND MUSIC HALLS.

Inspections have been made of the Theatres, Music Halls and other places of Public Entertainment as to the sanitary conditions in accordance with the requirements of the Ministry of Health (Circular No. 120), and all were found to be satisfactory.

SHOPS ACT.

During the year the shops within the Borough have been kept under close observation, 1,322 day visits and 309 night visits having been paid.

The Shops (Hours of Closing) Act, 1928, which came into operation on the 3rd August has extended Powers to the Local Authority, whereas formerly only the Home Office could grant any alterations or deviation from the hours laid down in the Shops (Early Closing) Act, 1921. The Local Authority has now Power to sanction a petition in respect to the suspension of the general hour of closing for not more than seven days in the aggregate of any one year. This consideration was long overdue. Under Section 3 of the Act as respects the trade or business of selling tobacco and smokers' requisites, a local authority may, in their area or in any part thereof, by order, substitute for the General Closing Hours fixed by this Act, later hours, not being later than ten o'clock in the evening on the late day or half-past nine o'clock in the evening on any other day, if they are satisfied that such an Order is desired by the Occupiers of at least two-thirds in number of the shops to be affected by the Order. The Local Tobacconists readily saw the wisdom of making application, which was granted. In my opinion this is a step in the right direction, as a large number of shops combine the business of Tobacconist with that of Confectionery; and whilst one section of the trade (Confectionery) was allowed to keep open, the other section (Tobacco, &c.) must close. These shops naturally had to be kept under close observation, but since the extension the whole of the shop must close at one definite hour and supervision is much easily carried out.

Unfortunately the new Act does not control Sunday Trading, and I feel that Sunday Trading is on the increase within the Borough, which in my opinion is definitely a retrograde step.

HOUSES-LET-IN-LODGINGS.

Number of Houses				 	110
Number of Inspections				 	245
Number of Applications	to Re	gister		 	22
Number of Notices and	Letter	s re rep	airs,		
cleanliness, etc.				 	67

Circular letters respecting the annual cleansing are forwarded each year to the responsible Occupiers of all houses.

COMMON LODGING HOUSES.

Number of Houses				 	13
Number of Keepers				 	10
Number of Inspections				 	105
Number of Lodgers acco			ightly	 	689
Number closed or discon				 	Nil
Number of Notices and	Letters	s re rep	airs,.		
cleanliness, etc.				 	13

Circular letters respecting the necessary cleansing are forwarded bi-annually to all the responsible Keepers.

SLAUGHTERHOUSES.

			Registered			d.	Licensed.
December, 1920					39		3
January, 1928					34		2
December, 1928					29		2
Public Slaughterh	louse						1
Number of Inspec	etions						8,907
Number of Notice	es to lin	newash					39
Number of Notice	es to pr	ovide re	efuse	recepta	cles		4
Number of Notific	cations	of chan	ige of	occupi	er		Nil
Letters re cleanline	ess, rep	airs, etc				.,	11

It will be observed that 5 registered slaughterhouses have been automatically struck off the Register during the year under section 126 of the Town Improvement Clauses Act, 1847, as applied by section 169 of the Public Health Act, 1875. This is due to the fact that slaughtering has not been carried on therein for several years.

Number on Register	 	 	 	156
Fried Fish Shops	 	 	 	133
Tripe Boilers	 	 	 	10
Tallow Melters	 	 	 	2
Tallow Chandlers	 	 	 	1
Gut Scrapers	 	 	 	3
Fat Renderers	 	 	 	2
Bone Steamers	 	 	 	1
Glue Makers	 	 	 	1
Fellmongers	 	 	 	1
Lubricant Makers	 	 	 	2
Number of inspections	 	 	 	234
Number of Notices to	vash	 	 	47
Number of Fried Fish			 	1
Letters of warning for				14

OFFENSIVE TRADE.

Fried Fish Shops :--

In July of 1922 these businesses came within the Provisions of Section 112 of the Public Health Act, 1875, as amended by Section 51 of the Amendment Act, 1907, as

an Offensive Trade. The whole of the Fried Fish Shops within the Borough have now been brought up to a good standard; new ranges have been provided which are more satisfactory from an effluvia nuisance standpoint, and the whole generally are carried on in a most satisfactory manner.

The other Trades on the Register have been conducted satisfactorily and in no instance where any alterations or improvements have been suggested have I had anything but a ready response to carry out the same.

ICE CREAM DEALERS.

The Middlesbrough Corporation Act of 1910, Sections 38 and 39, give the Corporation power to control the manufacture of Ice Cream.

During the year all premises where Ice Cream is manufactured, stored or sold have been regularly visited and found satisfactory.

Number manufacturing Ice Cream			 67
Number selling Ice Cream			 111
Number discontinued during the year			 1
Number registered during the year			 1
Number of inspections made			 135
Number of letters sent re minor contr	avent	ions,	
alterations to premises, &c.			 10

COW SHEDS.

Number of Cowsheds	 	 1
Number of Registered Cowkeepers	 	 1
Number of Cows kept	 	 12
Number of Inspections made	 	 4
Number of Notices to Limewash	 	 2
Number discontinued during Year	 	 3

During the Year 3 Cowsheds have been removed from the Register. This is accounted for by the absorption of land in connection with the said Farms for allotments and general main road improvements.

The requirements of the Milk and Dairies Order have been carried out in respect to the one Farm existant within the Borough. The buildings, including cow byres and dairy, have been kept in a satisfactory condition.

DAIRIES AND MILKSHOPS.

Number on the Register			138
Number discontinued since January, 1928			6
Number registered since January, 1928			9
Number of Transfers of Licences			10
Number of Inspections			275
Number of Notices requesting Purveyors to	Registe	r	3

Letters of warning for minor contraventions of the Bye-laws were sent to several Milk Purveyors, but on the whole the conduct was generally satisfactory. Legal Proceedings were instituted against 2 Registered Dairymen during the Year (see Magisterial Proceedings, Nos. 11 and 12).

ADMINISTRATION OF THE FACTORY AND WORKSHOPS ACT, 1901.

There are 437 Work	shops	on th	ne Register,	including :			
Workshop Bakehouses			53	Tinsmiths			 5
Factory Bakehouses			25	Watch Repairing			 9
Boot and Shoe Repairing			62	Cabinet Making			 11
Dressmaking			32	Laundries			 9
Millinery			12	Cycle Making and	Repair	ing	22
Tailoring			46	Workplaces			 22
Joinery			46	Blacksmiths			 10
Plumbing			11	Miscellaneous			 59
Saddlery			3				

On the whole, the Workshops, Retail Bakehouses, etc., were found to be in a satisfactory condition, and no Legal Proceedings were instituted.

Full details of the Workshops and Inspections have been placed on record in accordance with the Act.

The following is the summary of the work carried out during the Year :--

Notices received from His Majesty's Inspector of Factories :

Re-occupation of Workshops	 	 11
Unsuitable Sanitary Accommodation		 6
Dirty Workshops	 	 1

Number Inspected	Factories :							
Number of Inspections 244 Workshops and Domestic Workshops : Number Inspected 437 Number of Inspections 437 Number of Inspections 437 Number of Inspections 437 Number of Inspections Notices Served Under the Public Health Acts : <td>ractorics .</td> <td>Number Inspected</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>138</td>	ractorics .	Number Inspected						138
Number Inspected 437 Number of Inspections 1,918 Notices Served Under the Public Health Acts : 1,918 To Cleanse and Limewash 1 To provide means of Ventilation (Sec. VII.) 2 Re Wet Floors (Sec. VIII.) 2 Re Wet Floors (Sec. VIII.) 1 Sanitary Defects 1 To Provide Refuse Receptacle 1 Overcrowding 1 Number Inspected 1 Number of Inspections 120 Unsuitable Premises 1 Sanitary Conveniences in Workshops : 1 Closets, Insufficient, Unsuitable or Defective 8 Home Work (Section 107 to 115) : 35 Lists of Out-Workers (or Home Workers) were received in the first half of the year, and 30 for the second half. Number of Lists of Outworkers received. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Number of Inspections 1,918 Notices Served Under the Public Health Acts : To Cleanse and Limewash 15 To provide means of Ventilation (Sec. VII.) 17 Re Wet Floors (Sec. VIII.)	Workshops	and Domestic Workshops	:					
Notices Served Under the Public Health Acts : 15 To Cleanse and Limewash 15 To provide means of Ventilation (Sec. VII.) 2 Re Wet Floors (Sec. VIII.) Sanitary Defects To Provide Refuse Receptacle Overcrowding Number, Including 25 Factory Bakehouses : Number Inspected Number of Inspections Notices Served to Limewash Pactory Bakehouses : Number of Inspections Sanitary Conveniences in Workshops : Closets, Insufficient, Unsuitable or Defective St Lists of Out-Workers (or Home Workers) were received in the first half of the year, and 30 for the second half. Number of Lists of Outworkers received		Number Inspected						437
To Cleanse and Limewash		Number of Inspections			•••		•••	1,918
To provide means of Ventilation (Sec. VII.) 2 Re Wet Floors (Sec. VIII.) Nil Sanitary Defects To Provide Refuse Receptacle Overcrowding Bakehouses, 78 in Number, Including 25 Factory Bakehouses : Nil Bakehouses, 78 in Number, Including 25 Factory Bakehouses : Number Inspected Number of Inspections Notices Served to Limewash Year Sanitary Conveniences in Workshops : Closets, Insufficient, Unsuitable or Defective 8 Home Work (Section 107 to 115) : 8 Home of Lists of Out-Workers (or Home Workers) were received in the first half of the year, and 30 for the second half.	Notices Se	rved Under the Public Hea	alth Ac	ts :				
Re Wet Floors (Sec. VIII.)NilSanitary DefectsTo Provide Refuse Receptacle4OvercrowdingNilBakehouses, 78 in Number, Including 25 Factory Bakehouses :Number InspectedNumber InspectedNumber of InspectionsFactory Bakehouses :Number of InspectionsSanitary Conveniences in Workshops :Mome Work (Section 107 to 115) :Mumber of Lists of Out-Workers (or Home Workers) were received in the first half of the year, and 30 for the second half		To Cleanse and Limewash	h					15
Sanitary Defects		To provide means of Ven	tilation	(Sec.	VII.)			2
To Provide Refuse Receptacle4OvercrowdingNilBakehouses, 78 in Number, Including 25 Factory Bakehouses :Number InspectedNumber InspectedNumber of InspectionsFactory Bakehouses :Mumber of InspectionsFactory Bakehouses : <td></td> <td>Re Wet Floors (Sec. VIII</td> <td>[.)</td> <td></td> <td></td> <td></td> <td></td> <td>Nil</td>		Re Wet Floors (Sec. VIII	[.)					Nil
OvercrowdingNilBakehouses, 78 in Number, Including 25 Factory Bakehouses :Number InspectedNumber InspectedNumber of InspectionsFactory Bakehouses :Number of InspectionsSanitary Conveniences in Workshops :NilClosets, Insufficient, Unsuitable or Defective8Home Work (Section 107 to 115) :35 Lists of Out-Workers (or Home Workers) were received in the first half of the year, and 30 for the second half. Number of Lists of Outworkers received		Sanitary Defects						27
Bakehouses, 78 in Number, Including 25 Factory Bakehouses : Number Inspected		To Provide Refuse Recep	otacle					4
Number Inspected75Number of Inspections417Notices Served to Limewash2Factory Bakehouses :2Mumber of Inspections120Unsuitable Premises120Unsuitable PremisesNilSanitary Conveniences in Workshops :8Home Work (Section 107 to 115) :8Home Work (Section 107 to 115) :65Number of Lists of Out-Workers (or Home Workers) were received in the first half of the year, and 30 for the second half65		Overcrowding	• •	•••	• •		•••	Nil
Number of Inspections417Notices Served to Limewash2Factory Bakehouses :120Unsuitable of Inspections120Unsuitable PremisesNilSanitary Conveniences in Workshops :NilClosets, Insufficient, Unsuitable or Defective8Home Work (Section 107 to 115) :8Ists of Out-Workers (or Home Workers) were received in the first half of the year, and 30 for the second half65	Bakehouse	s, 78 in Number, Includin	g 25 Fa	actory	Bakeh	ouses :		
Number of Inspections417Notices Served to Limewash2Factory Bakehouses :120Unsuitable of Inspections120Unsuitable PremisesNilSanitary Conveniences in Workshops :NilClosets, Insufficient, Unsuitable or Defective8Home Work (Section 107 to 115) :8Ists of Out-Workers (or Home Workers) were received in the first half of the year, and 30 for the second half65		Number Inspected						75
Notices Served to Limewash								
Number of Inspections120Unsuitable PremisesNilSanitary Conveniences in Workshops: Closets, Insufficient, Unsuitable or Defective8Home Work (Section 107 to 115): 35 Lists of Out-Workers (or Home Workers) were received in the first half of the year, and 30 for the second half. Number of Lists of Outworkers received65								
Unsuitable Premises Nil Sanitary Conveniences in Workshops : Closets, Insufficient, Unsuitable or Defective 8 Home Work (Section 107 to 115) : 35 Lists of Out-Workers (or Home Workers) were received in the first half of the year, and 30 for the second half. Number of Lists of Outworkers received	Factory B	akehouses :						
Unsuitable Premises Nil Sanitary Conveniences in Workshops : Closets, Insufficient, Unsuitable or Defective 8 Home Work (Section 107 to 115) : 35 Lists of Out-Workers (or Home Workers) were received in the first half of the year, and 30 for the second half. Number of Lists of Outworkers received		Number of Inspections						120
 Closets, Insufficient, Unsuitable or Defective								
 Home Work (Section 107 to 115): 35 Lists of Out-Workers (or Home Workers) were received in the first half of the year, and 30 for the second half. Number of Lists of Outworkers received	Sanitary (Conveniences in Workshop	os :					
 35 Lists of Out-Workers (or Home Workers) were received in the first half of the year, and 30 for the second half. Number of Lists of Outworkers received		Closets, Insufficient, Uns	uitable	or De	efective			8
first half of the year, and 30 for the second half. Number of Lists of Outworkers received	Home Wo	rk (Section 107 to 115) :						
first half of the year, and 30 for the second half. Number of Lists of Outworkers received		35 Lists of Out-Workers	(or Hor	ne We	orkers)	were re	eceived	in the
								9
Number of Employers		Number of Lists of Outw	orkers i	receiv	ed			65
		Number of Employers				· · ·		35
Number of Outworkers Premises Inspected 118		Number of Outworkers I	Premise	s Insp	pected	• •	•••	118
Workplaces (Restaurant Kitchen, etc.) :	Workplac	es (Restaurant Kitchen, et	.):					
Number on Register 41		Number on Register						41
								41
								139

SMOKE ABATEMENT.

I am pleased to report that so far as the smoke nuisance from industrial chimneys is concerned there is little cause for complaint. During the year improvements were carried out to the furnace chimney at the Corporation Gas Works with very satisfactory results.

In Middlesbrough the household chimney is the chief cause of trouble, not only in regard to its numbers but owing to the fact that the tar oils are not consumed in a manner similar to the average steam raising furnace. Rapid strides are being made with the carbonising of coal which sooner or later will result in a smokeless fuel being placed on the Market at an economical figure. In this direction, and this direction only, must we look forward to better results in respect to the chimneys of dwelling houses, as the old British instinct of a good blaze in the firegrate still lingers.

HOUSING.

Number of New Houses Erected during the year, 1928 :

	(a) Total (including numbers given separately under b)		297	
	(b) With State Assistance under the Housing Acts		260	
	1. By the Local Authority		111	
	2. By other Bodies or Persons		149	
1.	Unfit Dwelling Houses :			
	(1) Total number of dwelling houses inspected for house	ing def	fects	
	(under Public Health or Housing Acts)			9,503
	(2) Number of dwelling houses which were inspected an under the Housing (Inspection of District) Regulation Housing (Consolidated) Regulations, 1925	ns, 191		1,157
	(3) Number of dwelling houses found to be in a state so or injurious to health as to be unfit for human (Scheduled Areas)	habita		294
	(4) Number of dwelling houses (exclusive of those referre the preceding sub-head) found not to be in all respects fit for human habitation			7,695
2.	Remedy of Defects without service of Formal Notices :		0700	
	Number of defective dwelling houses rendered fit in co			7,695
	of informal action by the Local Authority or their Offic	CIS		1,000

3. Action under Statutory Powers :

A.-Proceedings under Section 3 of the Housing Act, 1925-

(1)	Number of dwelling houses in respect to which Notices were served requiring repairs	Nil
(2)	Number of dwelling houses which were rendered fit after service of Formal Notices	Nil
	(a) By Owners	Nil
	(b) By Local Authority in default of Owners	Nil
(3)	Number of dwelling houses in respect of which Closing Orders became operative in pursuance of declaration by Owners of intention to close	Nil
B.—	Proceedings under Public Health Acts —	
(1)	Number of dwelling houses in respect of which Notices were served requiring defects to be remedied	1,808
(2)	Number of dwelling houses in which defects were remedied after service of Formal Notices	
	(a) By Owners	1,808
	(b) By Local Authority in default of Owners	Nil
c.—	Proceedings under Sections 11, 14 and 15 of the Housing Act, 1925—	
(1)	Number of representations made with a view to the making of Closing Orders	Nil
(2)	Number of dwelling houses in respect of which Closing Orders were made	Nil
(3)	Number of dwelling houses in respect of which Closing Orders were determined, the dwelling houses having been rendered fit	Nil
(4)	Number of dwelling houses demolished in pursuance of Demolition Orders	Nil

INSPECTION AND SUPERVISION OF FOOD.

MILK SUPPLY.

During the year 143 samples of Milk were procured and submitted for Bacteriological Examination, and a high standard of cleanliness was maintained. 26 or 18.1% were found to contain Coliform Bacilli upon first test; and 14 or 9.7% were found to contain Coliform Bacilli upon second or subsequent tests.

36 samples were examined for Tubercle Bacilli by the Inoculation Test, and all were returned "Negative."

Letters of warning, together with suggestions on "How to produce Clean Milk" are sent to all Farmers whose Milk is dirty. Letters notifying Farmers who are producing Clean Milk are also sent.

Of the 26 samples that contained Coliform Bacilli on first examination, 13 contained Coliform Bacilli in only 1/100th of a c.c., 10 in 1/1000th of a c.c., and 3 in 1/10000th of a c.c.

9 samples were returned as containing one to five million Bacteria per 1 c.c. 6 of these were definitely B. Coli., and the remaining 3 were no doubt attributed to the B. Lacticus. In each case these samples were procured during the harvest time when the responsible hands were engaged in the fields and inexperienced hands were engaged in the cow byres, they being considered good enough to carry on the work of Milk production. Serious letters of warning were sent to the Farmers concerned and an appreciably better result was obtained when the next samples were procured.

It is an added pleasure to find the hearty co-operation that is shewn by all Farmers to produce a Clean Milk, and I feel that no good purpose would be gained by taking proceedings when such heartfelt co-operation is given by those responsible.

A sample of dirty water from a churn that was supposed to have been effectively cleansed by the Dairyman before returning to the Farmer was also submitted for examination, and it was found to have a very high Bacteria Count, Coliform Bacilli being present in 1/10000th of a c.c. Proceedings were instituted against the Dairyman concerned (see Magisterial Proceedings No. 12).

REPORT OF THE ADMINISTRATION IN CONNECTION WITH THE PUBLIC HEALTH (MILK AND CREAM) REGULATIONS OF 1912, DURING THE YEAR ENDED, DECEMBER 31st, 1928.

1.-Milk and Cream Not Sold as Preserved Cream :

			amined for the presence of	Number of Samples in which Preservative was reported to be present and percentage of Preservative found in each Sample.
Milk	 	 	148	Nil
Cream		 	12	Nil

2.-Cream Sold as Preserved Cream :

(a) Instances in which samples have been submitted for analysis to ascertain if the statement on the label as to Preservative was correct :—

	(1)	Correct state	ment	s ma	de				Nil
	(2)	Incorrect sta	teme	nts m	nade				Nil
(b)	Deteri	minations mad	le of	Milk	Fat in	Cream	sold as	Preserved	Cream :
	(1)	Above 35%							Nil
	(2)	Below 35%							Nil

Preservatives :

The Public Health (Preservatives, &c. in Food) Regulations, 1926, came into operation in four parts, the whole finishing on the 1st July, 1928. Under these Regulations Sulphur Dioxide and Benzoic Acid are the only Preservatives allowed to be used, and then only in such quantities as laid down by the Regulations.

In consequence of these Regulations a great outcry was heard during the Summer months by the Manufacturers. However, it is far better to have small quantities of Cream allowed to sour than to be "doctored" to keep it fresh. Synthetic or Re-constituted Cream made from Unsalted Butter, Milk Powder and Water, came on to the markets, but made little or no headway. During the year the following samples were analysed for the presence of Preservatives but all were returned Genuine and conformed to the Regulations. :—

Description	-	e.				Number taken	
Ox Tongue							1
Salmon and Sl		ste					1
Soup							1
Herrings in To	mato Sa	uce					1
Bacon							5
Ham							2
Sausage							7
Mincemeat			•••		•••	•••	1
Wild Duck Pas	ato		• •	•••			1
Bloater Creme				•••	•••		1
Essence of Rer	32.5A	• •			• •	•••	1
		•••	• •	• •	• •	••	1
Raspberry Jan	a	• •	•••	• •	• •	• •	1
Brawn							5
Potted Meat							3
Fruit Wine							1
Jellied Veal an	d Ham						1
Corned Beef							1

FOOD AND DRUGS ACT-SAMPLES TAKEN FOR ANALYSES.

Description of Sample	Number Taken	Number Genuine	Number Not Genuine	Number Official Samples	Number Unofficial Samples	Remarks
New Milk	 147	112	35	47	100	See special Report.
Grade "A " Milk	 1		1		1	do.
Ground Rice	 1	1			1	
Rice	 1	1.			1	
Margarine	 8	8		1	7	
Butter	 13	10	3	1	12	100% Margarine.
						Vendor prosecuted.
Tinned Peas	 1	1			1	
Coffee	 2	2		1	1	
Refined Borax	 2	2			2	
Powdered Ginger	 1	1			1	
Camphorated Oil	 1	1			1	
Sago	 1	1			1	
Tapioca	 1	1			1	
Cream of Tartar	 1	1			1	

Description of Sample	Number Taken	Number Genuine	Number Not Genuine	Number Official Samples	Number Unofficial Samples	
Glycerine	1	1			1	
Ox Tongue	1	1			1	
Salmon and Shrimp						
Paste	2	2			2	
Mock Turtle Soup	1	1			1	
Herrings in Tomato						
Sauce	1	1			1	
Table Cream	2	2			2	
Cream Cakes	3	3			3	
Bacon	5	5			5	
Ham	2	2			2	
Chocolate	5	5			5	
Toffee	2	2			2	
Sausage	7	7		1	6	
Corned Beef	1	1		1		
Pepper	3	3		1	2	
Vinegar	1		1	1		Contained 3.66%
						Acetic Acid, being 0.34% deficient of the minimum standard of 4%.
						Vendor cautioned.
Ice Cream	1	1			1	
Condensed Milk	2	2			2	
Cream	12	12			12	
Baking Powder	1	1			1	
Mincemeat	4	4			4	
Tinned Salmon	2	2			2	Contained traces of
						tin.
Tinned Crab	1	1			1	do.
Tinned Pears	1	1			1	Contained 0.43 grains
						of tin per pound.
Tinned Loganberries	1	1			1	Contained 0.22 grains of tin per pound
Tinned Cherries	1	1			1	do.
Synthetic (or						
Reconstituted Cream) 1	1			1	do.
Wild Duck Paste	1	1			1	
Bloater Creme	1	1			1	
Essence of Rennett	1	1			1	
Raspberry Jam	5	4	1	1	4	Contained added fruit
- as factory and the						juices. Vendor cautioned.
Mustard	1	1		1	1	rendor caucioned.
Tea	1	1		1		
Lard	5	5		2		
	0	0		-		

Description of Sample		Number Taken	Number Genuine	Number Not Genuine	Number Official Samples	Number Unofficial Samples	Remarks
Strawberry Jam		4	2	2	1	3	Unofficial sample followed by official sample. Added fruit juices. Vendor prosecuted.
Whisky		1	1			1	
Soap		1	1			1	
Brawn		5	5			5	
Potted Meat		3	3			3	
Veal and Ham		2	2			2	
Biscuits		4	4			4	
Sauce		4	4			4	
Mixed Spice		1	1			1	
Potted Salmon		1	1			1	
Raisins		1	1			1	
Currants		2	2			2	
Ground Almonds		1	1			1	
Sultanas		1	1			1	
Fruit Wine		2	2			2	
Lemon Peel		2	2			2	
Tripe	•••	2	2			2	
		297	254	43	61	236	

ADMINISTRATIVE ACTION REGARDING "NON-GENUINE" MILK SAMPLES.

Number of Samp	or	Result of Analysis	- Action taken.
26	Unofficial	11.6% deficient in Fats 1.8% Added Water	
29	do.	Genuine	Vendor Prosecuted
32	Official	2.6% deficient in Fats 3.4% Added Water	(see Magisterial Proceedings No. 1)
33	do.	4.8% Added Water	
43	Unofficial	Genuine	
79	do.	Genuine	
31	do.	5.6% deficient in Fats	Official samples Nos. 34 and 35
34	Official	Genuine	declared by Analyst to be genuine.
35	do.	do.	Farmer cautioned.

Numb of Samp	or	Result of Analysis	Action taken
59	Unofficial	5% deficient in Fats	Further samples procured declared by Analyst to be genuine. Vendor cautioned.
62 77 78	Official do. do.	15.0% deficient in Fats 17.3% do. Genuine	Sample 78 declared by Analyst to be genuine. Vendor cautioned.
64 148 156 157 158 159	Unofficial do. Official do. do. Unofficial	11.6% deficient in Fats 16.6% do. 16.6% do. 16.6% do. 18.3% do. 5.0% do.	"Appeal to Cow" sample No. 159 shewed a deficiency of 5% fats. These samples were taken in the month of June when the weather was wet and cold, and as the "Appeal to Cow" sample was deficient, I was satisfied that the Farmer was not at fault. Advised the Farmer to get rid of some of his heavy milkers and procure stock which would give a higher fatty content.
68	Unofficial	6.6% deficient in Fats 1.4% Added Water	Further samples declared by Analyst to be genuine. Vendor cautioned.
$\frac{104}{143}$	do. Official	5.6% deficient in Fats Genuine	Further samples declared by Analyst to be genuine. Vendor cautioned.
106 135 144 145 146 147	Unofficial do. Official Unofficial do. do.	16.6% deficient in Fats 23.3% do. 20.0% do. 25.0% do. 46.6% do. 21.6% do.	"Appeal to Cow" sample No. 145 shewed a deficiency of 25% fats. These samples were obtained during the cold and wet month of June. The whole of the cows were in good condition, extra cake was given and hours of milking regular, and it was obvious that the Farmer's intention was only to supply milk as it came from the cow.
$\frac{107}{136}$	Unofficial do.	10.0% deficient in Fats Genuine	Further samples declared genuine upon analysis. Vendor cautioned.
$109 \\ 113 \\ 137$	Unofficial do. do.	6.6% deficient in Fats 11.6% do. Genuine	Further samples declared upon analysis to be genuine. Vendor cautioned.

Numl of Sam		Result of Analysis	Action taken.
127 138 139	Unofficial Official do.	11.0% deficient in Fats Genuine 8.3% deficient in Fats	Further samples declared upon analysis to be genuine. Vendor cautioned.
133 140 141 142	Unofficial Official Unofficial do.	17.0% deficient in Fat 13.3% do. 6.6% do. 31.6% do.	"Appeal to Cow" samples Nos. 141 and 142 shewed a deficiency of 6.6% and 31.6% of fats respectively. The latter was from a cow giving 3 gallons which represented 1/9th of the total meal. This cow was undoubtedly responsible for the deficiency as when the morning's Milk was withdrawn the standard of 3% Fats was easily obtained. I advised the Farmer to reject 1 quart of the first drawn Milk from this cow at the morning's meal, and afterwards the Milk was genuine.
173 218 224 250 251	Unofficial do. Official Unofficial do.	13.3% deficient in Fats 6.6% do. Genuine do. do.	Vendor cautioned as further samples were declared upon analysis to be Genuine.
202 203 214	Unofficial Official Unofficial	8.6% deficient in Fats Genuine do.	This deficiency was obviously due to the non-stirring of the Milk prior to serving. Vendor cautioned.
220	Unofficial	6.6% deficiency in Fats	Further samples declared upon analysis to be Genuine. Vendor cautioned.
266 269 270	Unofficial Official do.	5.6% Added Water 8.1% Added Water Genuine	
272 273 274 275 276	Unofficial do. Official do. do.	do. do. do. do. do.	Vendor Prosecuted (see Magisterial Proceedings No. 11)
277	do.	do.	

As will be noted from the above table, 36 samples of Milk did not comply with the Standard as laid down by the Sale of Milk Regulations, 1901, that the Fat Content shall be 3% and the Non-Fatty Content 8.5%. This large number (36), representing 24.3%, is due to the manner in which I procure the samples, *i.e.*, direct from the Farmers churns before they reach the Dairies ; as when they arrive at the Dairies they are usually mixed and seldom fall below the required Standard. The average Fatty Content of the 148 samples procured for analysis proved to be 3.25%.

The present Standard (3% Fats and 8.5% Non-Fatty Solids) is a source of trouble and worry to the Food Inspector, insofar as it is presumed in Law to be a good defence if the Farmer can prove to the satisfaction of the Court that the Milk has not been tampered with, but sold as it came from the Cow. There is a great diversity of opinion in this direction. Food, breed, atmospheric conditions, &c., all play an important part. Comparisons as to the number of samples "Not-Genuine" from other towns must not be taken seriously, unless the methods of sampling are given. It is unwise for the Inspector to procure samples of Milk from known good supplies. Large Dairies seldom, if ever, by mixing the Milk from the various farms, fall below the presumed Standard ; but the small Dairyman receiving his supplies from one farm is easily likely to cause a series of "Non-Genuine" samples. One wonders then, if the correct procedure is to procure samples from individual Farmers before the Milk is mixed, or after the Milk is mixed, and in "Course of Delivery" to the consumer. During the year I have invariably carried out the former method with the result that there is an increase of 75% in the number of "Non-Genuine samples."

Informal or Test Samples :

It will be observed from the tabulated statement, that 61 Informal and 236 Formal Samples were taken during the Year, all of which were submitted to the Public Analysts for analysis.

Informal Samples are in all cases purchased by an Agent, and if they are found to be adulterated, Formal Samples are obtained with a view to Summary Proceedings being taken. It has been found that the obtaining of Informal Samples is, on the whole, a very convenient method of estimating whether vendors are supplying genuine articles and causes no inconvenience to the shopkeepers, as when the samples are obtained formally the latter involves explanation as to why the sample has been purchased, the subsequent division of the sample into three parts and the sealing up of same, which all take a considerable time.

PUBLIC HEALTH (MEAT) REGULATIONS, 1924.

The above Regulations lay down that 3 hours Notice of intended slaughter must be given. By this means, every animal slaughtered within the Borough is inspected as to its condition before it is removed from the slaughter-house. During the Year 3,260 notifications were received in addition to 16 regular slaughterings, where operations are carried on daily.

Speci	es.	Pu	ablic Abbattoir.	Private Slaughterhouses.
Bulls		 	166	236
Bullock	s	 	471	1,834
Cows		 	503	588
Heifers		 	472	1,327
Calves		 	639	690
Sheep		 	5,699	13,033
Pigs	•••	 	5,000	11,344
			12,950	29,052

Of the 42,002 animals slaughtered, 41,219 or 98.14% were found to be sound and unaffected by disease of any nature; 542 or 1.30% were found to be affected with Tuberculosis, and 241 or 0.56% were found to be affected with other diseases or conditions (see Table).

In addition, a large number of carcases that have been slaughtered outside the Borough are received into the various wholesale warehouses, and a regular inspection is made.

These warehouses are often a source where diseased meat finds its way to the consumer, as the inspection of carcases in rural areas is not carried out the same as in larger towns.

PARTICULARS OF SURRENDERS AND SEIZURES OF UNSOUND ANIMALS AND MEAT.

Number of Voluntary Surrenders	Number of seizures (with subsequent
of diseased carcases, or part	destruction) of diseased carcases or
carcases or internal organs, by	part carcases or internal organs
butchers to Chief Inspector.	by Chief Inspector.

		Other		Other	
Year.	Tuberculosis	Conditions.	Tuberculosis	Conditions	Total
1926	151	103	2	1	257
1927	358	153			511
1928	542	241			783

A notable feature is the increase in the number of animals affected, but this is chiefly due to the great increase in organs only affected, viz. :--

		le carcases affected.	Part carcases affected	Organs only affected
1926	 	108	66	83
1927	 	112	112	287
1928	 	192	191	400

									Wh			es aff demn		l 	
							Bulls	Bullocks	Cows	Heifers	Calves	Pigs	Sheep	Total	Percentage
Tuberculosis			 				4	14	56	7	6	66	1*	154	0.367
Abscesses			 												
Flukes			 												
Cysts			 												
Jointill			 								1			1	0.002
Bruised			 												
Pericarditis			 												
Cirrhosis			 												
Pyaemia			 												
Suffocation			 								1	5	4	10	0.024
Mammitis			 												
Lipomato			 								1.1.1				
Cavernous A			 												
Nephritis			 							•••		•••			
Actinomycos			 							•••					
Melanosis					• •						•••		•••		
Septicæmia			 				•••		2		•••	1	1	4	0.009
Congestion											•••				
Moribund			 				•••	•••			•••	1	1	2	0.005
Pleuritis			 					•••			•••				
Pneumonia		• •	 									4		4	0.009
Inflamation			 				••						•••		
Erysipelas			 								•••		•••		0.005
Emaciation		•••	 				•••				•••	2	2	22	0.005
Dropsy			 	• •		• •									0.005
Immature			 		• •	• •	•••		1		1	1	8	10	
Fatty Infiltra		•••	 •••	• •	• •							1		2	0.005
Fevered		•••	 			• •	•••				•••				
Lovered	•••	•••	 		••	• •		••	1		•••	•••	•••	1	0.002
							4	14	60	7	9	81	17	192	0.457

Number and Class of Animals affected by various

*It will be observed that one Sheep was condemned as suffering from Tuberculosis. This is so extremely no doubt exists in my mind that it would

		Pa			s affe demn		1				Org			affect mned		nd			
Bulls	Bullocks	Cows	Heifers	Calves	Pigs	Sheep	Total	Percentage	Bulls	Bullocks	Cows	Heifers	Calves	Pigs	Sheep	Total	Percentage	Total	Percentage
4	9	31	3		135		182	0.433	9	22	101	7	5	62		206	0.490	542	1.29
									2	8	5	1		1		17	0.011	17	0.04
									3	28	12	17				60	0.142	60	0.14
											5	2		35		42	0.099	42	0.09.
																		1	0.00
		2			1		3	0.007										3	0.00
														1		1	0.002	1	0.002
										1	1			15		17	0.041	17	0.04
			1				1	0.002										1	0.00
																		10	0.02
											5					5	0.012	5	0.01
											2					2	0.005	2	0.00.
											5					5	0.012	5	0.01
									2	1	2	1				6	0.015	6	0.01
		1					1	0.002										1	0.00
									1	1	1	1				4	0.009	4	0.00
		1					1	0.002			1					1	0.002	6	0.01
										2				22		24	0.057	24	0.05
																		2	0.00
	1						1	0.002										1	0.00
											1		1	4		6	0.015	10	0.02
														3		3	0.007	3	0.00
																		2	0.00
																		2	0.003
						2	2	0.005										12	0.029
																		2	0.00
											1				• •	1	0.002	1	0.00.
			•••			••				•••		•••			•••		•••	1	0.005
4	10	35	4		136	2	191	0.454	17	63	142	29	6	143		400	0.952	783	1.86

iseases or Conditions, and Condemned during the Year 1928.

are that I endeavoured to trace the history, but without success. If that had been possible, however, ave been found to be a bottle fed pet lamb.

Below is a list of Foodstuffs that were found to be unsound and unfit for human consumption. All were surrendered and destroyed.

				Number	Weight.	
Beasts .		• •	• •	 85	3,381 st	ones
Pigs .				 81	697	,,
Sheep .				 17	76	"
Calves .				 9	64	•,•,
Beef .				 	279	,.
Pork .				 	128	•/
Veal .				 	2	,,
Offal				 	255	,,
Frozen Beef				 	30	"
*Rabbits				 114	17	,,
Bacon				 	6	,,
Frozen Salm	on			 	43	,,
Potatoes				 	736	,,
Turnips				 (1 Truck)	888	,,
*Apples				 $(8\frac{1}{2} \text{ boxes})$	$59\frac{1}{2}$,,
Fish				 	8	,,
Pears				 	3	,,
Eggs				 30		
Prawns				 	7 pe	ounds
Boiled Ham				 	5	"
Corned Beef				 	6	,,
Jellied Veal				 	12	,,
Yeast				 (41 Bags)	31	,,
Grapes				 (2 Boxes)	20	,,
Chicken				 1	$3\frac{1}{2}$.,
†Margarine				 	17	,,
Condensed M				 (34 Tins)		

Total

6,679 st 101 lbs.

*] Rabbit and $3\frac{1}{2}$ pounds Apples seized.

[†]17 pounds Margarine seized from a Hawker selling as Fresh Country Butter—Proceedings instituted (see Magisterial Proceedings, Case No. 7). The total weight of Butchers' Meat and other Foodstuffs surrendered and seized during the year amounted to 6,659 stones, as compared with 4,197 stones in 1927, and 3,563 stones in 1926.

Of the 4,912 stones of Butchers' meat condemned, 4,400 stones were affected with Tuberculosis.

TUBERCULOSIS ORDER, 1925.

During the year no notifications were received from Farms within the area of animals suffering or suspected of suffering, from Tuberculosis as required under this Order.

In all cases where whole or part carcases were found affected with Tuberculosis the responsible Official of the Authority from whence the animal came was notified. 73 such Notifications were sent out during the year, and in the majority of cases good results accrued.

THE MARGARINE ACT, 1887, AND THE SALE OF FOOD AND DRUGS ACT, 1899.

Number of Manufacturers	 	 	Nil
Number of Wholesale Dealers	 	 	25
Number of Premises Registered	 		25

BUTTER AND MARGARINE ACT, 1907.

NT. 1 /

There are 3 Butter making Factories in the town. Regular Butter making is not carried on, and only when Milk is surplus at these Dairies is Butter manufactured.

MAGISTERIAL PROCEEDINGS.

Number (10		
Case	Comp	blaint	Result
1	Selling Milk 2.6% defic Added Water	cient in Fats with 3.4%	Case dismissed.
2	Failing to comply with Health Acts	Notice served under Public	Case withdrawn upon payment of costs.
3		out first giving requisite ed under Middlesbrough 1914	Fined 40/- and Costs.
4	Do.	do.	Fined 20/- and Costs.
5	Do.	do.	Fined 40/- and Costs.

Number of Case

8

Complaint

Result

ment with Hard

Dismissed with Costs.

Fined £5 and Costs.

Fined 20/- and Costs.

Fined 40/-.

6	Failing to give requisite Notice of Child suffer	ing Fined 10/-
	from Smallpox	
7	Selling Margarine as Fresh Country Butter	6 months imprison-

- Opening drainage without giving requisite Notice as required under Middlesbrough Corporation Act, 1914.
- 9 Selling Jam wrongly described on Label
- 10 Contravening Section 73 of the Public Health Act, 1925, by giving books in exchange for rags, etc.
- 11 Selling Milk containing 8.1% Added Water
- 12 Contravening Section 28 of Milk and Dairies Order, 1926, by not cleansing churns prior to returning to Producer

PUBLIC MORTUARY.

The Public Mortuary is situated at the Local Board Yard in Commercial Street. It is adequately and well maintained and kept in a cleanly condition by the Caretaker. During the year 44 bodies were removed to the Mortuary.

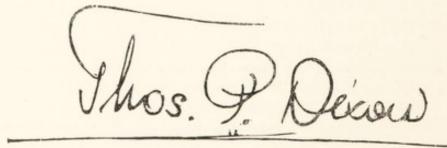
SCHOOLS—SANITARY CONDITION AND WATER SUPPLY.

During the summer vacation the drains of all Council Schools were cleansed and disinfected efficiently and all apparent defects were remedied.

The whole of the water supplies are direct form the mains of the Tees Valley Board.

RAG FLOCK ACTS, 1911 AND 1928.

No action was taken under these Acts during the past year.



Chief Sanitary Inspector.

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PREVALENCE AND CONTROL OVER INFECTIOUS DISEASES.

During the year 1928, there were 5,366 cases of Infectious Disease notified, this being an increase of 531 cases compared with the previous year, due to the prevalence of Measles and Chickenpox both of which are notifiable.

The mortality rate from the chief Zymotic Diseases during the year 1928 was 0.31 per 1,000 of the population. The rate in the previous year was 0.01.

The death-rates per 1,000 population in the County Boroughs and Great Towns for certain diseases for 1928 were as follows :---

	Enteric Fever	Small- pox	Measles	Scarlet Fever	Whooping Cough	Diph- theria	Influ- enza
107 County Boroughs and Great Towns	 0.01	0.00	0.15	0.02	0.09	0.09	0.17
Middlesbrough	 0.01	0.00	0.25	0.00	0.024	0.03	0.36

Smallpox.

The epidemic of mild Smallpox, which had been prevailing since 1919, terminated in September, 1928.

There was one death from this disease in 1928, that of an aged and chronic infirm male, who contracted the disease in the Union Infirmary and died after a few hours illness.

P. H. (Infectious Disease) Regulations, 1927.

The only disease notified during 1928 under the above-mentioned Regulations was Pneumonia (Acute Primary and Influenzal). Nursing assistance was provided in 44 cases, and Pneumonia Jackets were supplied for 10 Infants.

Upon investigation it was found that overcrowding was one of the chief factors in these cases.

Vaccination.

The Medical Officer of Health performed 102 Primary Vaccinations and 66 Re-vaccinations under the Public Health (Smallpox) Regulations, 1917.

Prevention of Blindness.

No action was taken under section 66 of the Public Health Amendment Act, 1925.

SMALLPOX. 1928.

						Ac	AGES OF ATTACKED	TTACKED						
VACCINAL CONDITION	Sex	Under 1 year	12	23	34	4 5	5-10	10—15	15-25	25-45	4555	5565	Over 65 year	Total
Vaccinated Male	Male	:	:	:	:	:	:	:	67	5	4	12	œ	33
	Female	:	:	:	:	:	1	:	1	8	9	1	:	17
Unvaccinated	Male	63	:	1	5	60	12	10	17	5	ę	1	63	61
	Female	1	:	-	60	:	17	25	25	5	1	1	:	79
Total Vacinated		:	:	:	:	:	1	:	3	15	10	13	x	50
Total Unvaccinated		en	:	61	x	e	29	35	42	10	4	61	61	140
Total		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	:	63	x		30	35	45	25	14	15	10	190

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NOTIFIABLE DISEASES (OTHER THAN TUBERCULOSIS) DURING THE YEAR 1928.

Ar Acres Ar Acres	TOTAL CASES NOTI	28 Notherd	0							Tomax	Tours Durante			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	An	AGES			5056	pett				TOTAL	DEAT	6		
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ages 1 5 15 25 45 65 year 97 1 32 41 11 7 4 1 90 84 2 6 13 19 34 10 1 190 3 18 61 45 24 30 9 13 190 3 18 61 45 24 30 9 18 1916 15 24 30 9 189 1.01 1 2,865 186 1,643 1,016 15 5	to	10			65	8	to	to	to	to	to	to	65	Total
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4,363 319 2,010 1,560 138 167 126 43 331	315 2,306					511	56	84	17	21	56	67	62	363
	319	138				331	65	122	16	14	47	82	61	407

CHIEF ZYMOTIC DISEASES, 1928.

WARD		Scarlet Fever	Diphtheria	Measles	Chickenpox	Smallpox	Enteric and Continued Fevers
	Attack	3.00	0.69	14.54	6.54	2.23	0.20
Ayresome	Mort.						0.07
Ashlam	Attack	1.60	0.38	14.97	17.97	1.27	
Acklam	Mort.	0.09		0.19			
0	Attack	2.34	1.01	24.72	11.15	1.68	0.16
Cannon	Mort.			0.33			0.08
(1) and and	Attack	2.13	0.79	27.02	9.92	1.42	
Cleveland	Mort.			0.17			
	Attack	0.11	0.34	19.63	17.11	1.73	
Exchange	Mort.						
а. <u>н</u> ен	Attack	2.51	0.53	37.18	12.59	0.60	
Grove Hill	Mort.		0.08	0.08			
	Attack	1.88	0.98	24.23	8.23	0.44	
Linthorpe	Mort.		0.08	0.08			
NT	Attack	1.65	0.62	21.03	6.52	2.98	
Newport	Mort.		0.08	0.88			
0	Attack	1.33	1.26	16.28	6.14	1.26	0.08
Ormesby	Mort.		0.08	0.16			
84 HB1-1	Attack	0.70	0.70	17.85	7.08	1.10	
St. Hilda's	Mort.			0.47		0.08	
Valer	Attack	1.08	0.66	23.27	9.43	1.08	
Vulcan	Mort.			0.33			
	Attack	1.80	0.73	21.75	8.47	1.44	0.04
Whole Borough	Mort.		0.03	0.25			0.01

Attack and Mortality Rates per 1,000 population in the Wards from certain Infectious Diseases during the year 1928.

Report of the Medical Officer of West Lane Hospitals for the Year 1928.

There were 43 cases remaining in the Hospital at the beginning of the year 1928. 420 cases were admitted to the wards during the year, and 406 cases were discharged. Fifteen deaths occurred in the Institution giving a case mortality rate of 3.57 per cent. 83 cases came from outside districts and 337 from Middlesbrough itself. October and November mo the showed the greatest number of admissions while comparatively few cases were admitted in June and August. At the end of the year 57 cases were remaining in residence.

DIPHTHERIA.

There were 5 cases of Diphtheria in residence at the commencement of the year and the admissions to the diphtheria ward totalled 100. 1 case admitted as diphtheria was found to be suffering from measles and bronchitis. 10 cases came from outlying districts. Six deaths occurred in the wards, and of these, two were from pneumonia. Three of the deaths took place within 24 hours of admission. Further details as to the fatal cases are given below :—

Age	Adn	nitted	Stay-in-Hospital	Cause of Death
6 years		of disease	7 hours 24 hours	Cardiac failure and Diphtheria
2 ,,	9th	,,		··· ·· ·· ··
6 ,,	$7 \mathrm{th}$	**	6 hours	Cardiac failure following tracheotomy for laryngeal obstruction
2 ,,	$7 \mathrm{th}$,,	9 days	Diphtheria and terminal broncho pneumonia
5 ,,	4th	,,	4 days	Lobar pneumonia
5/12 ,,	8th	,,	8 days	Broncho pneumonia

Tracheotomy was resorted to in two cases, one collapsed and died within an hour of the operation and the other made a good recovery.

Anti-diphtheritic serum was administered to all cases in varying doses from 4,000 units to 24,000 units. The majority of cases were of a very mild nature and were

discharged after a stay of four weeks subject to two successive swabbings from the throat being returned as negative. 42 cases out of the 99 gave a positive finding of the Klebs Loeffler Bacillus from bacteriological examination of the swabs. Most of the bacteriological examinations are now undertaken at the Hospital thus enabling the taking of at least two successive negative swabs from each patient before discharge and at much less expense.

Complications included :

Peritonsilla	r Abscess	 	2	Cardiac Arythmia	 4
Epistaxis		 	2	Broncho-Pneumonia	 3
Otorrhoea		 	3	Rhinorhoea	 5
				Palatal Paralysis	 1

SCARLET FEVER.

At the beginning of the year there were 37 cases of Scarlet Fever remaining in Hospital. 292 cases were admitted to the wards during the year, this being an increase of 61 as compared with the admission for 1927. 66 patients came from outside areas.

An analysis of the 292 cases sho	ws:		
Scarlet Fever	276	Scarlet Fever and Pertussis	2
Scarlet Fever and Measles	9	Scarlet Fever and Smallpox	1
Scarlet Fever and Chickenpox	4		

Among the total cases there was one death—a girl of 12 who died from encephalitis lethargica, from which she was suffering when admitted with scarlet fever. A survey of the age incidence shows the usual predominance of the 5-15 group, but there was decided increase of the cases over 15 years of age. The disease was of a very mild nature in the majority of cases and only seven were classified as septic scarlet fever. Scarlet fever anti-streptococcal serum was administered to 29 cases, the mildness of the other cases not necessitating its use. Complications occurred in two of the patients who had been treated with serum, one patient had nephritis on admission and the other developed adenitis. Operative measures were resorted to on seven occasions. Four suppurating glands of the neck were incised and drained and two peritonsillar abscesses were opened. In one case of submaxillary adenitis tubercular glands in the neighbourhood became involved and were excised.

Two other cases call for special mention, one a smallpox contact was admitted and isolated with scarlet fever, subsequently he developed smallpox and was removed to the Hemlington Smallpox Hospital. After three weeks he was returned to West Lane to finish his convalescence from scarlet fever. One woman had a miscarriage and as the delivery was complicated the foetus and placenta were removed under anaesthesia. Six "return cases" were admitted during the course of the year and these were traced to four discharged cases who had developed rhinorhoea after returning home. The return case rate for the year was 1.5 per cent. Two minor outbreaks of cross infection occurred in the scarlet fever wards due to two patients admitted with scarlet fever being in the incubation period of measles and chickenpox respectively. Four cases of measles and two of chickenpox resulted; further spread being prevented by immediate removal and isolation of the primary and subsequent cases.

Complications included :

Rhinitis			 15	Arthritis		5
Adenitis			 13	Peritonsillar Absce	ss	4
Suppurative	Adenit	tis	 5	Epistaxis		5
Nephritis			 4	Otomboog		15
Perforated 1	Palate		 1	Miscarriage .		1

TYPHOID FEVER.

During the course of the year 9 cases were admitted to the wards and in addition, two were sent in for observation. One of the nine cases and both of the observation cases were found to be suffering from diseases other than typhoid fever. One case of paratyphoid fever was remaining in Hospital at the beginning of the year.

Three deaths from enteric fever occurred. Two of these were sisters, who together with their brother were admitted suffering from a very virulent type of the disease. The third death was that of a nurse who was attending the former cases for some eight days. The nurse died from peritonitis within three weeks.

Three cases gave a positive Widal result to typhoid, three to paratyphoid B. and the reactions of the rest were not taken or negative. Details as to the fatal cases are given below :—

No.	Sex	Age	Widal	Stay in Hospital	Cause of Death
1	F.	8	Pos. Enteric	7 weeks	Asthenia and cardiac failure after two relapses.
2	F.	14	Pos. Enteric	5 weeks	Never rallied—died peritonitis and perforation (P.M. examination)
3	F.	20	Not taken	19 days	Collapsed-died of peritonitis.

Complications met with included otorrhoea, epistaxis, peritonitis and perforation.

OBSERVATION CASES.

Five cases were admitted during the year—one of the five being admitted as typhoid but found to be suffering from acute tubercular meningitis. Three deaths occurred among this series and further information is given in the table below. The remaining cases were classified as pleurisy and a mixed infection of measles and scarlet fever respectively.

No.	Sex	Age	Widal	Stay in Hospital	Cause of Death
1	F.	14	Not taken	3 days	Acute Tubercular Meningitis, confirmed lumbar puncture, P.M.
2	F.	54	Negative	5 days	Broncho-pneumonia—chronic nephritis
3	F.	14	Negative	6 weeks	Acute Miliary Tuberculosis— confirmed. P.M. examination and microsections.

MISCELLANEOUS CASES.

Three smallpox contacts were isolated at the Hospital during the year. Three Lascars from the s.s. "Margha" were isolated and treated for chickenpox for the Tees Port Sanitary Authority. Seven cases of measles were received from convent schools and General Hospitals. One case of septic meningitis was admitted and died within twenty four hours; this case was notified to the Coroner and an inquest held. There was one case of erysipelas treated at the Hospital in 1928.

1. SWalter

Resident Medical Officer.

									ses (- LANC	, be											
Disease		Remaining in Hospital December 31st, 1927.	January		Rehmary	f	March	101010	Anril	der	Mav	Com	June		Tada	Ame	A second	isnguA	Santamber	manuadad	October	Innono	November		December		Totals	
		Remaining December	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
West Lane Hospitals—																												
Scarlet Fever		37	22		15		14	1	18		23		14		27		19		31		42		35		32		329	
Diphtheria		5	7		10		9			1			9								10				5		102	
Enteric Fever		1															5		4		2		1				9	
Chickenpox							2																				3	
feasles											2														1		7	
feningitis											1	1							1	1							2	1
rysipelas																									1		1	
mallpox																												
Contacts					1		2																				3	
neumonia]			1									1	1					2	1
Observation			1	1							2										1		1	1		1	5	
Total		43	30	1	27		28	2	34	1	34	2	23		38		24		42	1	56	4	45	2	39	2	463	18
fuberculosis	-			-		-	-	-		-		-	-	-	-			_		-		-	_	-		-		-
Hospital-	-																											
Pulmonary-		12	10	1		1	c		-		8	2	7	9			5		7		ß		6		5	2	92	
Male Female	•••	12	1.	1	1. 2.2			2														1				1	81	
remate	••	12		-			0	-	.4			_	_		10			_				_		_		_		
Total		24	17	2	12	1	15	2	11		16	4	10	2	18		10		8		14	1	11		7	3	173	18
Jon-Pulmonar	v																											
Male		5							3	2					1		1		1								11	2
Female		2	1.000		1.000																			1		1	9	2
				-		_	_	-		-		-	-	-	-		-	-				-		-		-	1	-
Total		7	1		1		1	• •	4	2		•••	1	•••	1	•••	1	•••	1	• •	•••	•••	1	1	1	1	20	4
Total T.B	.	31	18	2	13	1	16	2	15	2	16	4	11	2	19	•••	11		9	•••	14	1	12	1	8	4	193	19
Iemlington																												
Hospital-		8	51		25		12		19		37		15		18		15		2		1						214	
mallpox Observation			1000																								13	
ontacts	•••																										0.000	
Unidella		1			-					_		_	_		_									_		_		-
	1		1000	1000			11000			1	41		0.000		1000		1000	1000	2	100							234	

West L	ANE H	OSPITA	L	Scarlet Fever	Diphtheria	Chicken-pox	Enteric Fever	Total
Thornaby				 28	9		4	41
Seamer				 14				14
Stokesley				 13				13
Bilsdale				 3				3
Carlton			• •	 3				3
Crathorne				 2				2
Marton				 1	1			2
Stainton	• • •			 1				1
Yarm				 1				1
Tees Port	Sanita	ry Aut	hority	 		3		3
	1	fotal		 66	10	3	4	83

CASES REMOVED TO HOSPITAL FROM OUTSIDE AREAS DURING 1928.

Report of the Tuberculosis Officer for the Year 1928.

The number of persons who died of Tuberculosis in the County Borough of Middlesbrough was 199, 107 males and 92 females. Of this number, 156 died from Tuberculosis of the Lungs and 43 from Tuberculosis of other parts of the body. There were 5 more deaths from Tuberculosis this year than during 1927.

The death rate for the year was 15.10 per 10,000 of the population. The general death rate from all diseases, including Tuberculosis, was 14.26 per 1,000 of the population.

A table given at the end of this Report indicates the number of deaths in the various age groups, shewing also the distribution of Pulmonary and Non-Pulmonary mortality, according to sex.

INCIDENCE.

The number of new cases of Tuberculosis notified as occurring during the year was 471, of which 337 were cases of Tuberculosis of the Lungs, while 134 were cases of Tuberculosis of other parts of the body.

The following is a table indicating the number of notifications and deaths for the year, in each ward, with the equivalent rate per 1,000 of the population.

WARD	No. of Notifications	No. of Deaths	Ward Population	Notification Rate per 1,000 Population	Death Rate per 1,000 Population
Ayresome	 40	23	14,370	2.78	1.60
Acklam	 29	14	10,291	2.81	1.36
Cannon	 66	19	11,932	5.53	1.58
Cleveland	 48	19	11,288	4.25	1.68
Exchange	 17	9	8,659	1.96	1.03
Grove Hill	 33	16	13,179	2.50	1.21
Linthorpe	 25	10	11,831	2.11	.84
Newport	 62	24	12,740	4.86	1.88
Ormesby	 39	13	12,709	3.06	1.02
St. Hilda's	 76	30	12,712	5.97	2.35
Vulcan	 36	22	11,989	3.002	1.83

An investigation was made to determine the mortality rate and incidence rate of Tuberculosis occurring in the houses built by the Corporation since the war, *i.e.*, in the Marton and Acklam Estates. It was found that the incidence of disease was less in these houses than in any of the wards of the town, while the mortality rate was lower than any of the wards with the exception of two wards.

DISPENSARY TREATMENT.

A considerable extension was made to the accommodation of the Dispensary by the occupation of the addition to the old rooms of that part of the building formerly tenanted by the Middlesbrough National Health Insurance Committee. The overcrowding of the waiting room and the consulting room that formerly existed has now been overcome to the great benefit of the patients and the staff of the Dispensary. The medical work was greatly facilitated and the comfort of the patient was much increased by the added accommodation.

During the year, there were 9,242 attendances at the Dispensary, while 6,918 visits were made by the Medical Officer and nurses to the homes of the sick. 471 new cases, or suspected cases of Tuberculosis attended for the first time during the year, exclusive of contacts, *i.e.*, people living in the same house as the patient. Of the 471, 403 were sent to the Dispensary by the patient's private Medical Attendant, for diagnosis before notification. This indicates that full use was made of the Dispensary by the medical practitioner as an aid to early diagnosis, which is recognised as one of the surest means of successfully coping with the disease.

Through recommendations from the Dispensary, 65 persons, mostly children, received Artificial Sunlight Treatment at the North Ormesby and Holgate Hospitals during the year.

RESIDENTIAL TREATMENT.

The total number of cases treated in West Lane Sanatorium was 196. Of these, 176 were cases of Pulmonary Tuberculosis, while 16 were treated for Non-Pulmonary Tuberculosis. 4 cases in which the diagnosis was doubtful, were admitted for observation, to enable a definite diagnosis to be made. During the year 146 patients were discharged from the Sanatorium, of whom 108 were much improved, while 38 cases shewed no material improvement. 19 patients died in West Lane Sanatorium.

In considering the results of treatment in this institution, it must be borne in mind that West Lane Sanatorium is the only local institution under the Public Authority for the treatment of Tuberculosis, and therefore patients in all degrees of advancement of the disease have to be admitted, though preference is given to those cases in the earlier stages of the disease. Many cases are therefore admitted in the later stages of the disease which are too far advanced for Sanatorium Treatment and in other areas would not be admitted to sanatorium but to hospital.

VOLUNTARY CARE COMMITTEE.

The work of the Voluntary Care Committee has been carried on as in previous years. 41 patients were sent for four weeks convalescent holiday to Barnaby Moor. In addition 12 children were sent to the Cripples Home at Danby.

The administration of Extra Nourishment was carried out by the Voluntary Care Committee during the year as in previous years. An annual report of the activities of this Committee is published separately.

Henr

Tuberculosis Medical Officer.

DEATHS FROM TUBERCULOSIS, 1928.

				SI	CX.
		AGE PERIO	D.	MALE.	FEMALE.
PULMONARY		Under 15 y	ears	11	9
					_
		15—25 year	s	14	24
		25-35 year	rs	21	15
		35-45 year		20	8
		Over 45 yea		20	14
	Tota	al over 15 year	's	75	61
	Insured			 60	10
	Non-Insured			 26	60

		54						
	Ag	E PERIO	DD.			MALE	SEX FEMALE	
						_	_	
NON-PULMONARY	U	nder 1	5 year	rs		17	15	
	0	ver 15	years			4	7	
TOTAL DEATHS :								
Pulmonary						86	70	
Non-Pulmonar	у			•••	••	21	22	
	Tota	,1.				107	92	
INSTIT	UTION	AL T	REAT	MENT	, 1928.			
West Lane Hospital :								
Pulmonary Male	в.	. 78	F	emale		73 T	otal 1	151
Non-Pulmonary Male	е.	. 7	Fe	emale		3 Т	'otal	10
(2 M	lales ar	nd 2 Fe	males	admit	ted for	observati	ion)	4
31 patients were receiving tre	eatmer	nt on J	anuar	y 1st, 1	928			165
Conditions of Patients Disch	arged	:						
Quiescent						—		
Much Improved						108		
No material Imp		nent .				38		
Died in Instituti	ion .					19		
						165		
Tuberculosis Dispensary :								
Total new Cases examined (e.	xeludii	ng Con	tacts)			471		
Diagnosis .						403		
Notified by .						59		
Pensioners .						4		
Transfers .						1		
Voluntary .				••		4		
						471		
							9,242	
Attendances, including Con	tacts .							
Attendances, including Con Home Visits			· · · ·					
Home Visits			• •	•••			6,918	
Home Visits Sputum Examinations .	•							

Report of the Venereal Diseases Medical Officer for the Year 1928.

CLINIC-7, Grange Road Middlesbrough.

STAFF :--- Medical Officer ; 2 Male Attendants ; 2 Nurses.

HOURS : (Medical Officer in attendance)-

MALES :	Monday		8-30 a.m. and 5-30 p.m.
	Friday		8-30 a.m. and 5-30 p.m.
FEMALES :	Wednesda	у	5-30 p.m.

IRRIGATION HOURS FOR MALES (ATTENDANTS ONLY) :---

Monday		8-30 a.m. and 5-30 p.m.
Tuesday	• •	8-30 a.m. and 5-30 p.m.
Wednesday	y	8-30 a.m.
Thursday		8-30 a.m. and 5-30 p.m.
Friday		8-30 a.m. and 5-30 p.m.
Saturday		8-30 a.m.

Number of Cases under Observation and Treatment on January 1st, 1928.

s	yphilis	Soft	Chancre	Gono	rrhoea	Other	Cases	Total		Total	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	all Cases	
106	41	2		123	12	4	3	235	56	291	

	М	ALES	0	FEN	IALES.
OCCUPATION.	Single	Married	OCCUPATION.	Single	Married
General Labourers	86	53	Housewives	 	39
Shipyard Workers	14	19	Domestics	 4	
Machinists, &c	31	19	Shop Assistant	 1	
Motor Mechanics, &c	7	8	Waitress	 1	
Iron and Steelworkers	17	19	Charwoman	 1	
Railwaymen and Dockers	9	7	Actress	 	1
Painters and Decorators	4	1	Scholars	 2	
Joiners and Bricklayers	10	6	Infant	 1	
Clerical	22	6	Not stated	 3	
Actors and Variety			•		
Artistes	8	3			
Chemical Workers	7	4			
Shop Assistants	9	4			
Seamen	88	21			
Miscellaneous	42	19			
Total	354	189	Total	 13	40

Occupation and State of Cases for the year 1928.

Number of Cases and the Diseases they were suffering from, dealt with for the first time during the years 1919 to 1928.

	Syphilis		Soft Chancre		Gonorri	Gonorrhoea		Other Cases		Total	
Year	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Female	Grand Total
1919	131	56	7		121	6	42	7	301	69	370
1920	274	54	35		293	22	178	14	780	90	870
1921	132	50	6		209	11	143		490	61	551
1922	141	15	21		159	9	161	13	482	37	519
1923	69	29	6		206	2	142	16	423	47	470
1924	75	20	7		200	7	113	26	395	53	448
1925	79	30	11		205	9	. 129	14	424	53	477
1926	77	32	12	1	236	18	130	14	455	65	520
1927	123	30	16		239	13	100	16	478	59	537
1928	118	22	7	1	284	16	134	14	543	53	596*
Total	1,219	338	128	2	2,152	113	1,272	134	4,771	587	5,358

. .

*Middlesbr	ough	Cases
Seamen		
Other Are	as	

Total ..

596

. .

. .

. .

109

121

Sex	Disease	Under One Year	1 to 5	5 to 14	14 to 16	16 to 17	17 to 18	18 to 19	over 19 Years	Total
	Gonorrhoea Syphilis and					2	2	4	276	284
-	Gonorrhoea									
MALE	Syphilis	1						2	115	118
M	Soft Sore Other							1	6	7
	Conditions						2	1	131	134
	Total	1				2	4	8	528	543
	Gonorrhoea					1			15	16
TE	Syphilis			2	1				19	22
FEMALE	Soft Chancre Other								1	1
	Conditions		1	• • •				1	12	14
	Total		1	2	1	1		1	47	53

Cases Classified in Age Groups.

Nationality of Seamen treated at the Venereal Diseases Clinic during the Year 1928.

British	 		 	79
Lascars	 		 	6
Spanish	 		 	5
Norwegian	 		 	5
Japanese	 		 	4
Chinese	 		 	6
French	 		 	1
Danish	 		 	1
Swedish	 		 	1
Jamaican	 		 	1
		Total	 	109

Total Attendances in 1928 of all persons suffering from :--

Sy	Syphilis Soft Chancre		Gono	Gonorrhoea		Other Cases		Total		
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	all Cases
2,622	643	20	2	4,967	237	438	44	8,047	926	8,973
		Mid	dlesbroug	;h .				7,350		
		Nor	th Riding	g of Yor	kshire			1,131		
		Cou	nty of Du	ırham				392		
					Attendan			8,973		

Sessions and Attendances during 1928.

Sex		Number of Sessions	Total Attendances	Average Attendance per Session		
Males		Morning - 105	1,816	17.3		
		Evening - 105	4,514	42.9		
Females		Evening - 52	938	18.1		
Males : Irrigation only		Morning and Evening - 304	1,894	6.2		

Totals for the Year 1928.

Total Number of Injections administered

		(Kharsulphan, Mer	cury ar	nd Bi	smuth)	 2,427
,,	,,	Irrigations administered				 4,917
,,	,,	Slides examined by Medical	Officer			 706
,.	,,	Wassermann Reactions				 272

	Total Number of Patients	Males.	Females	Total
1.	Uncompleted treatment	 96	10	106
2.	Transferred to another Centre	 146	12	158
3.	Discharged	 224	29	253
4.	Under observation at the end of 1928	 279	58	337
	Total	 745	109	854

G. Anyour

Medical Officer of Treatment Centre.

VENEREAL DISEASES CLINIC-RESULTS OF TREATMENT.

STAGE	Year	Sypl	Syphilis		Soft Chancre		Gonorrhoea		cases	Total		
DIAGE	rear	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Tota
14	1919	24	8			15	2			39	10	49
Before completion	1920	71	4	15		158	4			244	8	252
of First Course	1921	21	2	5		31	1			57	3	60
	1922	52	9	2		64	2			118	11	129
	1923	13	7			41				54	7	61
	1924	8	4							8	4	12
	1925	16	8			31	2			47	10	57
	1926	9	6			42	2			51	8	59
	1927	16	3	1		43	2		2	60	7	67
	1928	9	4	1		79	4			89	8	97
	Total	239	55	24		504	19		2	767	76	843
	1919											
After One or	1920										.:	
more Courses	1921	29								29		29
	1922	24	15			12	1			36	16	52
	1923	18	2							18	2	20
	1924	7	3							7	3	10
	1925	1	4							1	4	5
	1926	2	2							2	2	4
	1927											
	1928	6	2	••						6	2	8
	Total	87	28			12	1			99	29	128

2	N.	Sypl	nilis	Soft C	hancre	Gono	rrhoea	Othe	r cases	т	Total		
STAGE	Year	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Tota	
	1919	6	2			11				17	2	19	
After completion	1920	11				2				13		13	
but no Final	1921	17				12				29		29	
Test	1922	7	3			10	1			17	4	21	
	1923	12	1							12	1	13	
	1924	4	2			32	3			36	5	41	
	1925												
	1926		4								4	4	
	1927												
	1928	1								1		1	
	Total	58	12		•	67	4			125	16	141	
	1919	11	3			8	2			19	5	24	
Transfers	1920	88	14	7		65	4			160	18	178	
	1921	85	1			46	1	3		134	2	136	
	1922	73	12			67	4			140	16	156	
	1923	57	10	5		78				140	10	150	
	1924	35	5	4		75	3			114	8	122	
	1925	63	5	1		73				137	5	142	
	1926	31	12	9		93	2			133	14	147	
	1927	61	10	6		104	6			171	16	187	
•	1928	66	8	4		76	4			146	12	158	
	Total	570	80	36		685	26	3		1294	106	1400	
	1919	11		4		2		42	7	59	7	66	
Discharged	1920	4	1	4		55		153	13	216	14	230	
Cured	1921	6		3		64	1	174	3	247	4	251	
	1922-	19	7	17		96	5	153	13	285	25	310	
	1923	18	14	14		89	6	133	11	254	31	285	
	1924	38	26	3		95	2	115	26	251	54	305	
	1925	18	13	8		107	5	132	15	265	33	298	
	1926	13	7	5	1	82	4	118	17	218	29	247	
	1927	24	7	7		116	7	119	13	266	27	293	
	1928	6	5	4	1	97	11	117	12	224	29	253	
	Total	157	80	69	2	803	41	1256	130	2285	253	2538	

Venereal Diseases Clinic-Results of Treatment-continued.

Report of the Maternity and Child Welfare Medical Officer for the Year 1928.

(1)

MIDWIVES ..

Forty-four Midwives, including four untrained, sent in their notice of intention to practise.

Of 3,273 births notified,

2,584 were by Midwives,

689 were by parents and Doctors.

As far as is known only 8 labours were conducted by handy women without a Doctor being present.

Of 2,584 births notified by Midwives, 332 were by the poor-law nurses and 309 by the Matron of the Municipal Maternity Home.

Of 1,948 births notified by private practising district midwives, medical aid was summoned 508 times, *i.e.*, in 26% of cases.

Visits of inspection to Midwives numbered 62.

MUNICIPAL MATERNITY HOME.

Number of	f cases deliv	vered	by Midwives	 260
,,	,,	,,	by Doctors	 49
	Tot	al de	liveries	 309

Number of cases in which medical assistance was sought by the Midwife, 66, *i.e.*, in 21.3% of cases.

Number of cases notified as puerperal fever, 2, and as puerperal pyrexia, 4. All 6 recovered satisfactorily.

Number of cases of pemphigus, nil.

Number of cases of ophthalmia, nil.

Number of infants not entirely breast fed, 5.

Number of maternal deaths with causes, 3:

- (1) Collapse after birth of twins.
- (2) Toxaemia of pregnancy.
- (3) Eclampsia.

Number of foetal deaths, stillborn, 12.

within 10 days, 11.

Number of pupils who took their Central Midwives Board Certificate, 8.

NURSING HOMES REGISTRATION ACT.

From July to December, 1928, the number of applications for registration was 5. All 5 were registered.

The number of exemptions asked was 2.

The number of exemption certificates granted was 2.

(2) GENERAL ARRANGEMENTS MADE FOR ATTENDING THE HEALTH OF EXPECTANT AND NURSING MOTHERS AND OF CHILDREN UNDER FIVE YEARS.

Health Visitors.

Number of visits paid :				
To expectant mothers	 First visits	400	Total visits	1,008
To infants under 1	 First visits	3,390	Total visits	9,858
To children 1 to 5	 Total visits	5,307		

Centres-

Average attendance of children per session :

East Centre			 101
Grove Hill Centre			 66
Cannon Centre			 152
American Red Cross Cent	re		 74
Settlement Centre			 78
North Ormesby Centre		·	 107

Municipal Children's Hospital.

Number of cases admitted, 138. Average duration of stay, 32 days. Reasons for admission :---Non-thriving children 56. Rickets ... 31 Domestic reasons (e.g., Confinement of mother) 24 Convalescents from measles, etc. 9 Tubercular contacts 5 To re-institute breast feeding 3 Miscellaneous 10 138 Number of cases discharged in good health ... 95 improved 24,, ,, with no improvement 14 ,, 22 Number of Deaths with cause :--Pneumonia 3 Inanition 1 Intra cranial pressure ... 1

Ultra-Violet Irradiation.

Indicat	ion for	Number of children treated.					
Rickets							144
Non-thriver	s						72
Tuberculosis	s of glan	nds, bo	nes, etc				16
Miscellaneou	-		•••				31
Mercury Lamp :							
Indicat	ion for	treatm	ent.		N	umber o	of children treate

Rickets	 	 			61
Non-thrivers	 	 			38
Miscellaneous	 	 	••	••	12

Practically every child having light treatment was taking either Ostelin or Virol at the same time.

Number of children over	5 years treated	 7
Indication for treatment	: rickets	 7

The school children were also provided with Ostelin. Their bony deformities do not respond so readily to light treatment as do the deformities of children under 5.

Good results were seen in the deformities from bow legs in children under 5. The deformities from knock knee on the other hand showed poor results after treatment.

One spectacular case can be cited from among others. A.T., a boy aged 4, weighed 28 lbs. (*i.e.*, the weight of a 2 year old child) before treatment. He was bow legged and lazy in his movements. At the end of 12 weeks of treatment, he weighed 36 lbs. and was running about. He continued taking Ostelin for 6 months and is now a straight legged boy.

Orthopaedic Treatment.

Number of children under 5 years of a	age seen	by the sur	geon	
from the Kirbymoorside Orth	opaedic	Hospital		15
Number of these recommended for H	Iospital			7
Number already admitted				3

The orthopaedic surgeon holds a monthly clinic and the orthopaedic Sister a fortnightly session.

Ante-Natal Work.

	Centre				~	ttendance per y session.
East			 	 	 	12.8
Grove	Hill		 	 	 	7.7
Canno	n		 	 	 	31.2
Ameri	can Re	d Cross	 	 	 	16.2
Settle	ment		 	 	 	26.0
North	Ormes	by	 	 	 	20.0

Apart from ante-natal work done by the Midwives practising in the district, two other ante-natal sessions are held :—

> (1) The Matron of the Municipal Maternity Home conducts the ante-natal examinations of the patients entered for the Home.

(2) Holgate Hospital has a monthly ante-natal session for the patients entered for the maternity wards and for the patients attended by the Holgate nurses on the district.

Maternal Mortality.

Number of Deaths	, 16.						
Puerperal Se	epsis, 2	followi	ing mis	carriag	e		 4
Eclampsia							 4
Embolism							 2
Collapse afte	er deliv	ery of t	twins				 1
Cardiac failu	re, mit	tral dise	ease				 1
Syncope							 1
Shock follow	ing dif	ficult la	bour				 1
Shock after	Caesar	ean Sec	tion				 1
Shock after	necessa	ary open	ration i	for emp	otying	uterus	 1

The Maternal Mortality investigations are made by the Medical Officer to Maternity and Child Welfare. No copies of reports sent to the Minister of Health are kept in the Maternity and Child Welfare office. Only the initials of the patient are given. The comments made by the practitioner in charge of the case are signed by his initials.

Infantile Mortality.

88 per 1,000.

Still Births.

These numbered 126 out of 3,273 notified births.

Of the 126 stillbirths:

62 at least were intra-natal.

64 had been dead two days or longer before birth.

Of the 62 intra-natal deaths, 18 were in primiparae.

Asce	rtainable causes were :			
	Forceps delivery	 	 	 15
	Prolonged second stage	 	 	 14
	Ante-partum haemorrhage	 	 	 11
	Difficult breech delivery	 	 	 6
	B.B.A	 	 	 4
	Cord round neck	 	 	 1

Of the 64 other still-births 18 were in primiparae.

Ascertainable causes were : 11 Ante-partum haemorrhage 11 Mechanical cause (fall, etc) , Psychological cause (fright, worry, etc.) Syphilis Illness during pregnancy (influenza, etc.) Albuminuria Maldevelopment (anencephaly, etc.) Inattention at birth

Post-mortem on 2 forceps deliveries showed meningeal haemorrhage.

Neo-Natal Deaths.

Of 1	19 deaths investigated, the ascertainable ca	uses w	ere :		
	Prematurity				39
	Feebleness of child from unknown causes				11
	Anatomical causes :				
	Spina Bifida				6
	Intestinal obstruction				5
	One case operated on revealed a	" Mal	-develo	oped c	olon."
	Anencephaly			·	3
	Congenital heart				3
	Meningocele				2
	Umbilical hernia : death of child aft	er oper	ration		1
	Difficult labour, all forceps				12
	A post-mortem in 3 cases showed meni	ingeal	hemorr	hage.	
	Convulsions—cause not ascertained				9
	Icterus neonatorum				3
	Syphilis				3
	Haematemesis and purpura				2
	Sepsis by the umbilicus				1
	Lysol poisoning by the umbilicus				1
	Atelectasis (1 after placenta praevia, I a 1	B.B.A.			7
	1 after a maternal death from	eclam	psia).		
	Bronchitis or pneumonia (1 after a mater	nal de	ath fro	m	
	lobar pneumonia)				6
	Gastro-enteritis (in each case artificial fee	eding)			5

119

4

6

4

4

5

1

67

Illegitimate Births.

These number 157 out of 3,219 registered births. Each baby is visited monthly.

Supply of Food and Milk.

Amount of Dried Milk given—499 packets. Amount of Cocoa and Milk given—529 packets.

(3)

INFECTIOUS DISEASES.

Puerperal Fever.

Of 24 notified cases, 4 died.

Puerperal Pyrexia.

Of 34 cases notified, all recovered satisfactorily with the exception of 2. One died on the 9th day of pulmonary embolism and the other was suffering from pulmonary tuberculosis.

Provision has been made by the Maternity and Child Welfare Committee for the institutional treatment of women suffering from Puerperal Fever and Pyrexia, at the Holgate Hospital, at the cost of two guineas per week per case. Investigations in respect of cases of Puerperal Fever and Prexia are made by the Medical Officer to Maternity and Child Welfare.

Opht	halmia	Neonal	torum.
------	--------	--------	--------

Notified	Cases	Treated	Vision	Vision	Total	Deaths	
Notified	At home	In hospital	Unimpaired	1.00	Blindness		
22	17	5	21	Nil	Nil	Nil	

Pemphigus Neonatorum.

There were 4 cases. All recovered satisfactorily.

-fracets. fifter Dundas.

STATISTICAL TABLES.

			3	BIRTHS		TOTAL DEATHS REGISTERED		TRANSFERABLE DEATHS		NETT DEATHS BELONGING TO THE DISTRICT						
				ber	Leo Net		IN THE I	IN THE DISTRICT			Under 1 Year of Age		At all Ages			
	Year		Year		Population estimated to Middle of each Year.	Uncorrected Number	Number	Rate	Number	Rate	Of Non-residents registered in the District	Of Residents not registered in the District	Number	Rate per 1,000 Nett Births	Number	Rate
	1		2	3	4	5	6	7	8	9	10	11	12	13		
	1916		For Deaths: 115,548 For Births: 125,718 For Deaths:	3,536	3,535	28,12	2,154	18.64	90	25	430	121	2,089	18.07		
	1917		119 251 For Births: 132,931	3,059	3,062	23.03	2,366	19.84	92	34	465	151	2,308	19.35		
	1918		For Deaths: 115,752 For Births: 12J,696	3,331	3,327	25.64	2,741	23.67	150	50	485	145	2,641	22.81		
	1919		For Deaths 127,142 For Births 132,444	3,534	3,531	26.66	2,437	19.16	132	34	493	139	2,339	18.39		
	1920		132,208	4,434	4,431	33.51	2,109	15.95	120	37	602	135	2,026	15.32		
	1921		133,400	4,240	4,218	31.62	1,967	14.74	106	32	501	118	1,893	14.41		
	1922		134,800	3,823	3,774	27.99	2,057	15.26	121	24	421	111	1,960	14.50		
	1923		135,400	3,726	3,728	27,53	1,876	13.85	139	28	321	86	1,765	13.03		
	1924		136,300	3,607	3,589	26.33	2,372	17.42	136	47	484	135	2,283	16.75		
	1925		136,200	3,503	3,501	25.70	2,123	15.58	167	28	342	97	1,984	15.56		
	1926		133,600	3,401	3,387	25.35	1,915	14.33	185	29	337	99	1,759	13.16		
_	1927		1 33 ,600	3,149	3,140	23.50	1,933	14.46	200	43	274	87	1,776	13.29		
-	1928		131,700	3,252	3,219	26.12	1,905	15.45	177	33	286	88	1,757	14.26		

TABLE I.—Vital Statistics of Whole District during 1928 and previous years.

CAUSE OF DEATH	£	Under 1 week	1-2 weeks	2-3 weeks	3-4 weeks	Total under 4 weeks	4 weeks and under 3 months	3-6 months	6-9 month
		. 75	19	9	14	117	38	51	32
All causes { Uncertified		. 4				4		1	
	M. F								
Small-pox									
Chicken-pox									
Measles	6 1							1	2
Scarlet Fever									
Whooping-Cough					1	1	2	3	3
Diphtheria and Croup									
Erysipelas									
Tuberculous Meningitis	1 5							1	1
Abdominal Tuberculosis									
Other Tuberculous									
	1 1								
Diseases Meningitis	1 1								
(not Tuberculous)	7 1		1		1	2		1	3
Convulsions	13 8	8 4	2	1	3	10	3	5	1
Laryngitis			••	••		•••		11	•••
Bronchitis	7 (· ·		1		2	5	1	2
Pneumonia (all forms)	33 14		1			1	8	13	12
Diarrhoea		2			1	1	2	2	1
Enteritis	14 13	3			2	2	7	11	4
Gastritis	3 1			1	1	2		2	
Syphilis	4]	2				2	2	1	
Rickets									
Suffocation, overlying	1	1				1			
Injury at Birth	7 5	2 7	2			9			
Atelectasis		3 4	1			5		1	
Congenital Malformations	12 7	7 11	2	2		15	3	1	
Premature Birth	29 17	32	5	1	4	42	3	1	
Atrophy, Debility and									
Marasmus	17 8	8 11	3	1	1	16	3	5	1
Other Causes	11 4	6	2	2		10		3	1
Influenza	1								1
Total	184 10		19	9	14	121	38	52	32
NETT BIRTHS IN TH	E YEAR	:	N	ETT DEAT	THS IN TH	E YEAR O	F :	Sec. 19	
Legitimate		. 3,062		Legit	imate Ini	fants .	. 26	6	
Illegitimat	е.				itimate In		. 2	0	
Т	otal .	. 3,219			To	tal	. 28	6	

TABLE II .--- INFANTILE MORTALITY, 1928. Nett Deaths from stated Causes

at various Ages under One Year.

9-12 months	Total Deaths under 1 year	Ayresome	Aeklam	Cannon	Cleveland	Exchange	Grove Hill	Linthorpe	Newport	Ormesby	St. Hildas	Vulcan	TOTAL
43	281	Ay	A	0	CI	E3	Ğ	Г	z	0	St	-	
	5												
••						••		••				1	7
4	7			1	1				1		3		
7	16	1		3		1		•••	2	2	4	3	16
••													
1	3							1	1		1		3
													·
2	2	1								1			2
	-											1	0
2 2	8	1		1		•••			3 2		2	1	8 21
	21	1		3	3		3	1		4			
 3	13	1		1	1	2	1	1	2		4		13
14	48	1	1	7	5		i	3	10	3	11	6	48
4	10			3	1		î		3	1	1		10
3	27	2		5	3	1	1	1	5	1	7	1	27
	4	1		2					1				4
	5	2		1					1		1		5
	1	1											1 9
	9				1	1		1	4	1	1		
	6	3							1	1	1		6
	19	3		1	2	1	1		1	4	3	3	19
	46	2	3	8	2	2	4	5	7	3	1	9	46
	25	4	2	6	2	1	2		3	2	2	1	25
1	15	2		1	3	2	1	1	2		2	1	15
	1								••		1		1
43	286	26		43	24	11	15	14	49	23	48	27	286
irth Rat	te	15.51	16.32	34.69	24.45	14.90	26.40	15.38	32.57	22.26	32.97	22.10	26.1
af. Mort	. Rate	112	3 6	104	87	85	43	81	118	81	115	102	88

TABLE III.-Nett Deat

							Age	S AT	DEA	гн					1.5	
CAUSE OF DEATHS		At all ages	under one year	1 and under 2 yrs.	2 and under 3 yrs.	3 and under 4 yrs.	4 and under 5 yrs.	5 and under 10 yrs.	10 and under 15 yrs.	15 and under 20 yrs.	20 and under 25 yrs.	25 and under 35 yrs.	35 and under 45 yrs.	45 and under 55 yrs.	55 and under 65 yrs,	yi ai ove
All Causes Certified Uncertified	1	743 14	281 5	96 	3 9 	20	12 1	44	29 	43	54 	98 	142 1	172 1	241 3	47
м.	F.														-	-
Enteric Fever 1	1	2									2					
Smallpox 1		1														
Measles 24	9	33	7	13	7	1	3	2								
Scarlet Fever	1	1			1											
Whooping Cough 13	19	32	16	9	3	1	1	2								
Diphtheria and Croup	4	4			1			2							1	
Influenza 30	18	48	1	1		2		4		1	2	3	6	8	10	1
Erysipelas 2	2	4												2	1	
Pulmonary Tuberculosis 86	69 1	55	1	3	2			6	8	16	23	32	29	16	13	
Other Tuberculous Diseases 23	21	44	4	8	4	3	1	5	8	2	2	4	1	2		
Cancer, Malignant Disease 83	58 1	41									1	4	13	20	50	5
Rheumatic Fever 7	13	20							2	1	1	2	4	2	4	
Organic Heart Disease 110	108 2	18							1	4	1	2	8	21	46	13
Bronchitis 45		93	13	2				2		2		1	4	15	15	3
Pneumonia 126		78	20	17	5	3	1	6	2	4	10	12	26	21	18	3
" Broncho 58	22.3	88	28	17	7	3	2	1		1	1	1	4	6	1	1
Other Respiratory Diseases 11		19	2	1	1		1	1		1	1	2	2	1	2	
Diarrhoea and Enteritis 35		57	37	14		1	1				1		2			
Appendicitis and Typhlitis 6		11						5	1		1		1	2	1	
Cirrhosis of Liver 2		2											1	1		
Alcoholism																
Nephritis and Brights Disease 32	17	49	1		2	1		1			1	1	4	12	13	1
Puerperal Fever	4	4										4				
Other Accidents and Diseases				•••	•••	••			•••	•••		*			•••	
of Pregnancy	12	12								1	1	9	2			
Congenital Debility and	1.0	12								•••		0	~		••	
Malformation, including																
Premature Birth	29	87	87					-								
Violent Deaths		61		1	3		1	2	2	6	4	6	10	10	5	1
Suicide 5	1	6	••	-						1		1	1	1	1	1
Other defined diseases 207		77	63	10	3	5	2	5		4	2	14	23	32		14
Diseases ill defined or			00	10	0	0	-	0	0	4	-	1.1	20	02	02	11
un lun autor	3	4	1										1	1	1	
Sambilia	1	5	5			••			••		•••	•••				
Manalaughtan		1		•••							•••	•••	1	•••		
Manslaughter I													1			
Total 1022	735 1	757 0	180	96	39	20	13	44	29	43	54	98	142	172	244	17

Ward Death Rates

Crude Death Rate = 15.45. 286 or 16.28% Deaths under 1 year Birth Rate ----Corrected Death Rate = 14.26. Deaths under 5 years = 454 or 25.84%. Birth Rate ... = 26.12.Deaths over 65 years = 475 or 27.03%. Infant Mortality Inquests 96. Certified by Coroner without Inquest 32 Rate . .

Registered during the Year 1928.

I.I

tutions		Nu	MBER O	F DEAT	THS AND	DEAT	H RATE	IN EAG	CH WAR	D IN TI	HE BOR	OUGH.
e Insti		and the second	12242						-		1.1	
Deaths in Public Institutions	Ayresome	Acklam	Cannon	Cleveland	Exchange	Grove Hill	Linthorpe	Newport	Ormesby	St. Hildas	Yulcan	Totals
4	1		1									2
1						•:				1		1
1		2	4	2		1	1	11	2	6	4	33
3	1		6	2	1	1	2	5	3	7		1 32
4						1	1	1	1		4	4
11	6	3	5	4	3	. 5	2	4	4	8	4	48
				1	1	1				1		4
55	21	9	16	17	6	13	7	16	12	23	15	155
35	2	4	4	2	3	3	3	7	1	8	7	44
54	14	7	12	17	9	14	13	13	13	23	6	141
3 76	1 20	2	1	2	2		4	1	5		2	20
12	6	13 5	19 7	23	12 8	26	17 12	18	19	32	19	218
59	13	9	27	13	8	4 10	12	15 17	7	17 46	5 15	93 178
19	2	2	6	7	3	4	9	24	5	15	11	88
4	2		2	6	2		3	2		1	1	19
10	3		11	5		2	3	14	3	14	2	57
15		2	2	2		1		2	1		1	11
2						1			1			2
1::-												
17		4	8		3	9	13	6	1	1	4	49
6	1		1		2	1						4
10	1	1		3		2	1	2	2000	2	1000	12
						-		-		-		1-
20	7	5	13	5	4	6	7	14	7	5	14	87
48	4	. 6	7	1	2	8	2	12	5	9	5	61
					1	1					4	6
259	39	27	41	24	21	46	34	40	29	49	27	377
1	1			2					1			4
4	2		··· 1									5
						1						1
732	146	102	194	145	91	161	147	225	127	269	150	1757
				1							1	1
	10.16	9.91	16.26	12.84	10.20	12.21	13.14	17.67	9.99	21.16	12.51	15.45
	15.51	16.32	34.69	24.45	14.90	26.40	15.38	32.57	22.26	32.97	$22 \cdot 10$	26.12
	112	36	104	87	85	43	81	118	81	115	102	88

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE IN THE COUNTY BOROUGH OF MIDDLESBROUGH.

CAUSES OF DEATH	Sex	All Ages	0—	1—	2—	5—	15—	25—	45—	65—	75—
ALL CAUSES	M F	1,022 735	186 101	53 43	43 27	33 36	61 37	149 94	257 161	149 128	91 108
1. Enteric Fever		130	10000				1				10000
1. Enteric Fever	M F	2					1				
2. Small-pox	M	1							1.1.1	••	1
2. Small-pox	F					•••					
3. Measles	M	23	6	8	8	1					
3. Measles	F	9	1	5	2	1					
4. Scarlet Fever	M	1 1973 H		1.2							
4. Scarlet Fever	F	··· 1			1						
5. Whooping Cough	M	14	7		2						
b. maoping cougn	F	18	9	4	4	1			• •		
6. Diphtheria	M								~~~		
or a protocold free free	F	4			1	2			1		
7. Influenza	M	32	1			1	4	7	14	3	2
	F	17		1	2	3		2	5	3	ĩ
8. Encephalitis Lethargica	M	1							1		
· · · · · · · · · · · · · · · · · · ·	F										
9. Meningococcal Meningitis	м	1			1						
6	F	1			1						
10. Tuberculosis of	M	85		3	2	7	16	37	19	1	
Respiratory System	F	71	1	1		7	23	24	11	2	2
11. Other Tuberculous	M	23	2	5	6	6	1	2	1		
Diseases	F.	17	2	3	1	5	3	3			
12. Cancer, malignant disease		87					1	7	43	30	6
	F	61						11	28	18	4
13. Rheumatic Fever	M	3					1	2			
	F.	2						2			
14. Diabetes	M	4							4		
	F	6						2	3	1	
15. Cerebral Haemorrhage, &c	. M	27							13	10	4
	F	38							17	14	7

REGISTRAR GENERAL'S RETURN, 1928.

Causes of Death at different periods of life in the County Borough of Middlesbrough-continued.

		All	/								
CAUSES OF DEATH	Sex	Ages	0	1	2—	5—	15—	25—	45—	65—	75-
6. Heart Disease	. M	128				1	5	13	45	39	25
	F	129				3		11	43	39	33
7. Arterio-sclerosis	. M	57						1	16	24	16
	F	29							2	11	10
8. Bronchitis	. M	33	9	1	1		1	1	10	6	4
	F	31	7	1		1		2	6	6	1
9. Pneumonia (all forms)	. M	164	29	16	14	4	12	37	29	14	1
	F	74	14	16	7	3	4	6	8	11	1
20. Other Respiratory	M	12	3		1	2	1	2	2	1	
Diseases	. F	11		1	1		1		4	2	1
21. Ulcer of Stomach or	M	11						6	4	1	
Duodenum	. F.	1							1		
22. Diarrhoea, &c.	. M	44	30	9	1			2	2		
	F	23	13	6	1		1	1			
23. Appendicitis and	M	4				1		1	2		
	. F	6				5	1				
	. M	2						1	1		
	F										
25. Acute and Chronic	M	27			1	1	1	3	11	9	
Nephritis	. F	17	1		1			3	6	3	1 10
	F	4						4			
27. Other Accidents and										1	
Diseases of Pregnancy	1000	1						-			1
	F	7						7			
28. Congenital Debility and		. 70	68	1	1						
Malformation, Prema-	M	33	33	1.00							1
ture Birth	F	33					2	2	3	1	
29. Suicide	M F	2		••				1	1		
	-				2	3		14	11	3	
30. Other Deaths from	M				1	1		1	1.	2	
Violence	F	7		1 5	3			10	26	7	1 5
31. Other Defined Diseases	M	2	31	4	4	5	3	14	22	16	1
	F	112	20		1.1.1		-	14			
32. Causes ill-defined or	M								2		
unknown	F	2							-		

TABLE V.-Notifications of Infectious Disease received during the Year 1928.

Cases Removed	u	agui Instiq	Hos Hemb	:	:	:	189	:	:	:		:			:	:	:	:	:	:	:	:	:	189
Rem		ns.I letiq	ts9W West	90	1	226	:	:	:	:		80	69		9	1-	5	:	:	:	:	:	:	484
gh			Vulcan	8	9	13	13	29	113	279		14	12		9	**	:	61	eo	.:	1	:	61	504
lorou		88	Bh. Hild	6	1-	6	14	54	90	227	8	36	16		16	0	:	1	:	~	:	:	6	494
Total Cases Notified in each Ward of the Borough		Ś	Ormesb	16	14	17	16	15	78	207		20	12		t	0	1	1	:	63	ŝ	:	5	417
rd of		¢	Newpor	×	00	23	38	86	83	268		18	20		10	11	:	-	2	1	:	:	10	590
Wa.		əd	Linthor	11	5	21	2	23	92	271		6	6		-	10	:	3	:	:	:	:	9	469
each		1111	Grove B	-	5	33	00	26	166	490		13	10		00	4	:	61	63	ŝ	1	:	9	617
ied in		92	Exchang	3	~	10	15	16	59	170		1-	80		61	~	:	1	-	67	:		+	303
Notif		pu	Clevelar	6	-11	24	16	28	112	305		16	21		10	9	•••	1	61	:	:	:	14	562
ases]			Cannon	12	10	28	20	36	133	285		21	20		6	[~	63	9	1		:	:	~	596
tal C			maliloA	4	ŝ	16	13	15	185	154		10	12		9	10	:	1	:	~	:	1	0	433
To		əœ	Ayreso	10	17	43	32	70	94	209		16	17		6	4	~	9	21	2	:	:	23	579
			65 years And over	1	10	:	6	19	:	:	1	61	61		:	:	:	:	:	:	:	:	9	49
GHED			45 and under 65 Førrs	4	34	:	30	57	:	:		31	17		~	1	1	:	:	:	63	1	15	195
ILLON		100	25 and under 45 years	-1	19	10	24	76	61	10		59	44		9	0	1	14	24	:	1	:	22	314
SES		At Ages	15 and under 25 years	11	13	25	45	62	14	15		26	41		9	80	4	10	10	:	-	:	15	306
OF CA		At	5 and under 15 years	41	9	113	61	27	603	1016		53	43		36	25	:	:	:	:	1	:	13	2088
NUMBER OF CASES NOTIFIED			and under b b s years	32	:	92	18	85	422	1643		80	6		51	12	:	:	:	:	:	1	13	2362
NUM			Under 1 year	1	63	64	00	55	74			1	1		61	00	:	:	:	22	:	:	0	
		At	all ages	97	84	237	190	398	1115	2865 186		180	157		80	54	9	24	34	22	5	1	87	Totals 5636322
				1	:	:	:	:	:	:		:	:	518:	:	:	:	:	:	-	:	:	:	s. :
	TE	ы		:	:	:	:	:	:	:	culosis:	:	:	berculo	:	:	:	:	:	torum	argica	or	nia	Tota
	NOTHIABLE	DISEASE		:	:	4	:	:	:	:.	['uber	:	:	of Tu	:	:	ar.	TOVO	rexia	Necna	Letha	I Fev	neume	
	Nos	T		Diphtheria	Erysipolas	Scarlet Fever	Small-pox	Pneumonia	Chickenpox	Measles	Pulmonary Tuberculosis:	Males	Females	Other forms of Tuberculosis:	Males	Females	Enteric Fever	Puerperal Fever	Puerperal Pyrexia	Ophthalmia Necnatorum	Encephalitis Lethargica	Cerebrospinal Fever	Influenzal Pneumonia	

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NOTIFICATION OF BIRTHS ACT, 1907.

TABLE VI.-Summary of Births notified to the Medical Officer of Health during the year 1928.

WARDS	Janu	wy F	January February		March		April		May		June	ſ	July	μų	August	Septe'ber) ber	October	ber	Nov'ber		Dec'ber	L.	inch St bir	including Still births	stillbit8		l No. of Birth field excludi Still birth:
	м.	E.	M. F	F. 1	M. F	F. M	M. F	F. M.	14	M	F.	м.	F.	M.	B.	м.	- <u>1</u>	м.	F.	м.	54	м.	F	M. F	TOT.	с. м.	54	itou
Ayresome	00	10	5	4	12 1	11 1	13	7 16	6 9	ũ	10	6	- 00	12	90	6	12	12	12	00	10	-1	16 11	118 117	7 235	6	9	223
Acklam	10	60	9	6	8	7 1	12		8	6	3	10	10	9	5	9	9	6	ŝ	10	4	9	6 10	100 75	5 175	3	4	168
Cannon	23	24	17 2	21	26 2	26 1	19 1	14 19	9 23	13	18	16	11	18	17	15	12	17	21	16	10	25	13 22	224 210	0 434	11	6	414
Cleveland	13	19	10 1	Ξ	15	6 1	15 1	12 11	1 11	12	8	15	9	10	10	14	11	15	18	8	п	13	12 16	151 135	5 286	4	9	276
Exchange	9	t-	6	1~	4	6	+	4	4 7		6 4	6	9	5	4	10	4	00	63	10	00	9	5	74 59	9 133	67	61	129
Grove Hill	18	14	16 2	55	15 1	10 2	22 2	21 12	2 15	5 14	8	20	11	6	15	11	19	12	23	11	6	20	12 18	180 179	9 359	5	9	348
Linthorpe	63	10	8	1-	9 I	11	6	~	7 12		6 9	80	9	13	4	11	00	00	œ	4	6	60	1-	88 89	9 177	00	61	172
Newport	20	28	19]	18	20 2	20 2	20	7 17	7 19	25	5 10	20	13	15	13	18	21	11	15	24	18	25	12 23	234 194	4 428	8	1-	415
Ormesby	14	11	15]	12	14 1	16	8 1	17 13	3 19) 13	6	14	15	9	6	12	14	L-	11	12	6	15	6 14	143 148	8 291	4	4	283
St. Hildas	20	17	21 2	23	11 1	19 2	21 2	20 19	9 19	9 20	20	13	17	24	13	21	19	11	9	11	26	17	16 22	221 215	5 436	11 8	9	419
Vulcan	17	11	16	00	14 1	18 1	11 1	13 11	1 10	-	9	12	12	11	8	16	9	12	x	16	12	19	8 16	162 115	5 27	6	60	265
Non-Residents	63	63	ŝ	1		:	01	1	1 1	~	4	:	1	-	I	63	4	:	4	1	00	61	1 1	19 23	3 42	4	00	35
TOTALS]	153 1	151 1	147 13	138 10	150 153	3 156	66 127	27 141	1 151	133	109	146	116	130	109	140	136 1	128 1	131	132 13	24	158 11	4	714 15	559 3273	3 68	58	3147
Births notified by :																												
Doctors	61	-	61		60		68		99		52		52		36	-	99	54	+	47		65		9	688		-	:
Reg. Midwives	243		224		243		215		226		190		210	¢1	203	10	210	205	20	209	-	206		25	2584			:
Other Women, etc.	:		:		:		:	_	:		:		:		:		:	:		:		1			1			
TOTALS	304		285		303		283	1	292		242	6	969	6	30	976	8	950		956		272		39	3273	12	26	

TABLE VII.-Birth-rate, Death-rate, and Analysis of Mortality during the year 1928.

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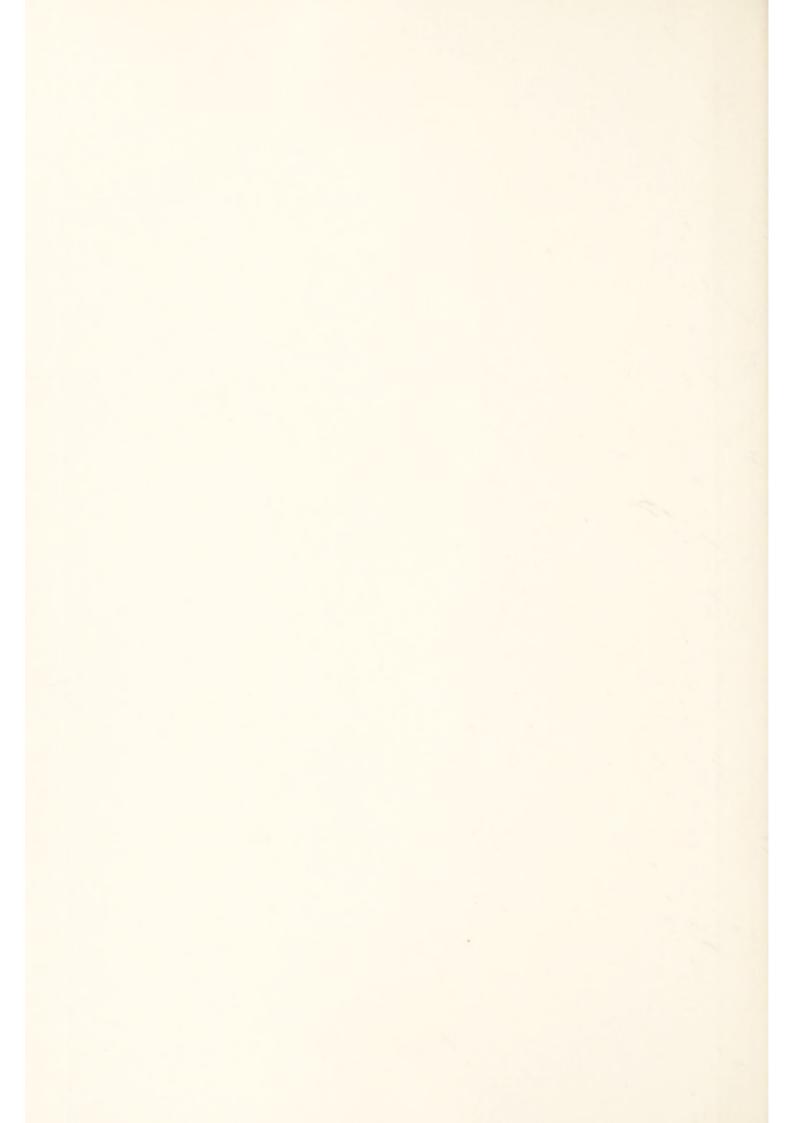
(Provisional figures. The rates for England and Wales, have been calculated on a population estimated to the middle of 1928, but those for the towns have been calculated on populations estimated to the middle of 1927. The mortality rates refer to the whole population as regards England and Wales, but only to civilians as regards London and the groups of towns.)

	BIRTH- RATE PER 1,00	BIRTH- RATE PER 1,000		Ā	ANNUAL D	DEATU-RATE PER 1,000 POPULATION.	E PER 1,	000 Poru	LATION.			RATE PER 1,000 BIRTHS	PER IRTHS.	P1 0F TC	PERCENTAGE OF TOTAL DEATHS.	GE ATES.
	TOTAL POPULA-	TOTAL OPULA- TION					1	ų3no				si		fedical by	896	.M. T 19
	Idve Births	still-births	All Causes	Enteric Feve	xoq-llam8	Measles	Scarlet Feve	O gaiqoodW	Diphtheria	azasultaI	Violence	Diarrhoea Briterit OwT rabau)	Total Dea under One	Causes of 1 certified Certified B Practitio	Inquest Car	Coroner ath Voroner ath Vo Inqu
:	16.7	0.70	11.7	10.0	00.0	0.11	0.01	0.07	0.06	0.19	0,53	7.0	65	90.9	6.7	1.4
107 County Boroughs and Great Towns, including London	16.9	0.70	11.6	0.01	0.00	0.15	0.02	0.09	0.09	0.17	0.48	9.6	70	91.0	6.5	1.9
156 Smaller Towns (1921 Adjusted Populations 20,000-50,000)	16.6	0.73	10.6	0.01	0.00	0.08	0.01	90.06	80*9	0.21	0.41	4.8	09	92.6	5.7	0.5
:	15.9	0.53	11.6	0.01	0.00	0.30	0.02	0.09	60.0	0.13	0.55	10.2	67	88.7	7.6	1.0
:	26.12	0.95	14.26	0.01	00.0	0.25	00.0	0.24	0.03	0.36	0.51	0.39	88	6.19	5.5	1.8

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Rale

