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#### **Contributors**

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County Gorough of Devonport.

# ANNUAL REPORT

ON THE

## HEALTH

AND

# SANITARY CONDITION

OF

## DEVONPORT

FOR THE YEAR 1908

BY

## O. HALL,

D.P.H., L.R.C.P., L.R.C.S., F.C.S., etc

Fellow and Member of the Council, Royal Institute of Public Health, Fellow of the Incorporated Society of Medical Officers of Health, Member of the Royal Sanitary Institute,

MEDICAL OFFICER OF HEALTH.

MEDICAL SUPERINTENDENT OF BOROUGH HOSPITALS.

MEDICAL OFFICER TO THE EDUCATION AUTHORITY.

DEVONPORT:

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### COUNTY BOROUGH OF DEVONPORT.

### SANITARY COMMITTEE.

THE MAYOR—Mr. Councillor GOLDSMITH, J.P.

Chairman—Mr. Councillor Monk, J.P.

Deputy Chairman—Mr. Councillor Coombs.

*Mr.	Alderman	BENNEE, J.P.	Mr. C	ouncill	or Full
* ,,	,,	GOODMAN	* ,,	,,	HEALEY
"	Councillor	BAXTER	* ,,	,,	LITTLETON
,,	,,	Brenton	,,	,,	Parr
,,	,,	CUNDY	* ,,	,,	ROBERTS
* ,,	,,	DAYMOND	* ,,	,,	SAWDY
,,	,,	ELLIS	,,	,,	SCREECH

\* Members of the Hospital Sub-Committee.

\*Fown Clerk—R. J. FITTALL, Esq.

### STAFF OF THE PUBLIC HEALTH DEPARTMENT.

Medical Officer of Health—O. HALL, D.P.H., LRC.S., L.R.C.P.

Assistant Medical Officer of Health—W. St. Clair McClure,
M.R.C.S., L.R.C.P.

Public Analyst—C. E. Bean, f.r.c.s, f.i.c. Matron of Borough Hospital—Miss Baker.

### Inspectors-

John Thorning, Cert. Royal Sanitary Inst., Chief Sanitary Inspector, and Inspector under the Food and Drugs Act, &c.

G. T. GEATON, Cert. Royal Sanitary Inst.

W. S. NORTHMORE, Cert. Royal Sanitary Inst.

S. SKELTON.

Clerk—R. T. Avis, Cert Royal Sanitary Inst.

Cleansing Superintendent—W. E. Arscott.

House Disinfectors—G. Trafford and G. Smith.

Municipal Buildings,
Devonport.

To His Worship The Mayor, Aldermen and Councillors of the County Borough of Devonport.

GENTLEMEN,

I have the honour to present to you my Fourth Annual Report on the Health and Sanitary Condition of the Borough,

The Report includes a detailed account of our proceedings under the Factory and Workshops Act, and, as requested by the Local Government Board, a resume of the work done under the Administrative Provisions (Education) Act, etc.

Reviewing the death returns, it will again be seen we continue to maintain our good position among the seventy-six great towns, the rate for the year being 13:3 per 1,000. It should be noted that 108 were returned as due to old age and were therefore, lives that had attained their "allotted span."

The Birth-rate which in 1907 was 27.6 per 1,000 fell to 25.3. It is difficult to determine the cause of this decline which for some time past has been fairly general throughout England, and, therefore, not dependent upon any exclusively local cause. It would appear, however, that during the past year there has been a slight increase in the number of births elsewhere, but as will be seen from the figures, Devonport has not participated in the improvement.

During the year there has been a further reduction in the number of Infectious Diseases notified, viz. 42 less than in the preceding year, although a larger number of cases were admitted into the Isolation Hospital. At first sight, this may appear somewhat paradoxical, but is explained by the fact that the increased Hospital accommodation has enabled us to isolate from the commencement those cases which, if refused

admission, would continue to act as centres of infection in their own homes.

As regards Tuberculosis, our position shows no appreciable improvement, but much is to be expected from the New Tuberculosis Regulations 1908, by which Poor Law Medical Officers, and Relieving Officers must report all cases coming under their observation to the Health Office. In the absence of more radical measures, our efforts must continue to be chiefly educational, and a new series of pamphlets is therefore in preparation, containing simple rules and advice for distribution in suitable cases. A great difficulty in dealing with the subject is the proverbial selfishness of the Consumptive, who, although he realizes the gravity of his own condition, will seldom inconvenience himself to the slightest degree for the safeguard of others.

One of the most important events of the year was the bringing into operation the New Education Act. This will be referred to at a later stage of the Report.

Infantile Diarrhœa as usual claimed a large number of victims, especially in the months of August, September, and October. This periodical occurrence of a preventable disease is greatly to be regretted, and it is a sad reflection upon maternal care and intelligence that so many lives are annually sacrificed. I have in previous Reports drawn attention to the principal causes of this scourge, and think some radical reform is required. During the year, I published a pamphlet bearing on the subject, but a measure of this kind without the co-operation of a Health Visitor is not calculated to bring forth much result. The usual adviser of the young mother, as is well known, is frequently the oldest and probably the most ill-informed of her acquaintances, and very often one of the race of midwives which is happily passing away. It can easily be seen that the substitution of enlightened and trained advice is unquestionably the remedy for this state of affairs, and I hope that when the matter is next brought before the Council they will be more inclined to give it favourable consideration. The urgent need for such an

official has been rendered still more imperative by the introduction of the New Education Act. Here we find the benefits which should follow examination and advice to a great extent must be lost unless followed up and applied.

### GEOLOGICAL FEATURES.

The area of the Borough of Devonport is bounded on the south and west by an expanse of estuarine water.

From the shore it rises in a series of somewhat isolated hills, the majority of which attain an elevation of slightly over 175 feet above the sea level.

At Mount Pleasant, on the South, the elevation is somewhat above 200 feet.

At Mount Pellier, on the East, the ground reaches 275 feet, and at St. Budeaux, on the extreme North, an elevation of 300 feet occurs. Formerly this area was intersected by several tidal creeks, branches of the Hamoaze; in part these still exist, but portions have already been filled and reclaimed and others are now in process of reclamation.

The whole district is occupied by rocks of the Devonian series, the more southerly portion of the Borough lying on limestone of Middle Devonian Age. Northwards are a succession of slate and shales, through which at Ford and Keyham break considerable masses of igneus rock having an East and West trend; still further North at, or near Saltash Passage, several narrow bands of ancient lavas occur coursing in a similar direction.

The whole area may thus be said to be formed of practically impervious rock, although formerly some of the dwellings drew their water supplies from shallow wells.

The extent to which surface waters enter the strata is, however, limited to that small depth to which the slate cleavage is appreciably open.

## VITAL STATISTICS.

### SUMMARY.

Population (Census 1901)	-	-	70,437
,, estimated by	Reg	istrar	
General -	-		81,525
Area	-		3,176 acres
Density of Population i.e., t	he nu	ımber	
of persons per acre		-	25.66
Number of Inhabited Hou	ises i	n the	
Borough last year			9,775
Number of houses built duris	ng the	e year	82
Rateable Value -	-	17 (1-)	£328,167
Borough Rate including	Edu	cation	
Rate	-	-	2/-
Street Rate	-		2/-
General District Rate	-	-	1/4
Poor Rate	-	-	1/1
Births	-	-	2,065
Birth Rate per 1,000 living	-	_	25.3
Deaths	-	-	1,072
Death Rate per 1,000 living		-	13.2
Average for 10 years	-	-	14.8
Excess of Registered Bi	irths	over	
Deaths -	-	-	993

Death Rate from 7	princ	ipal Zym	otic	
Diseases		-	-	1 21
Infantile Mortality	y or	Deaths	of	
Children und	ler 1 y	ear per 1,	000	
Births	-	-	-	125
Average for 10 year	rs -	-	-	127.6

## POPULATION.

The Population as enumerated at the last Census (1901) was 70,437, estimated by the Registrar General to middle of 1908, it was 81,525 this being an increase of 1,566 over the preceding year.

In arriving at these figures, the Registrar General assumes that the same rate of increase will hold good as in the preceding intercensal period. It must be remembered, however, that in a Military and Naval Town like Devonport the population is essentially a migratory one, and it is probable his estimate is only approximately correct.

The Area is 3,176 acres exclusive of water.

Density of Population, i.e., the number of persons to each acre is 25.66.

The number of Inhabited Houses in the Borough is 9,775.

Births.—The number of births registered during the year was 2,065. This gives a rate of 25.3 per 1,000, and is 21 less than in 1907.

**Deaths.**—During the year 1,100 deaths were registered from all causes in the Borough; this is equivalent to a death rate of 13.3 per 1,000 as against 12.8 in the preceding year.

Of these deaths, 566 were males, and 534 were females, 943 occurred in private houses, 68 in the workhouse, 84 in the Royal Albert Hospital, and 25 in other Institutions. 28 were deaths of non-residents.

The rate of the 76 great towns as will be seen from the comparative table appended was 14.9. That for England and Wales being 14.7.

The Zymotic Death Rate, i.e., the death rate from the seven principal Zymotic Diseases (small pox, measles, scarlet fever, whooping cough, diphtheria or membranous croup, enteric fever and diarrhœa) was 1.21 per 1,000.

TABLE I.

## DISTRIBUTION OF BIRTHS.

DIST	RICT.	1st quarter	2nd quarter	3rd quarter	4th quarter	Total	Rate per 1000 of popula- tion (Census, 1901).
Tamar		 161	139	111	139	550	23.8
St. Aubyn		 140	164	166	139	609	26.5
Stoke		 252	250	221	183	906	37.1

TABLE II.

## DISTRIBUTION OF DEATHS.

DISTR	ICT.	1st quarter	2nd quarter	3rd quarter	4th quarter	Total	Rate per 1000 of popula- tion. (Census 1901).
Tamar		 88	53	45	63	249	10.7
St. Aubyn		 97	87	65	91	340	14.8
Stoke		 165	120	84	114	483	19.7

TABLE III. VITAL STATISTICS OF WHOLE DISTRICT during 1908 and previous Years.

		BIR	BIRTHS.	TOTAL	DEATHS KRGISTERED DISTRICT.		IN THE	Total	Deaths of Non-	NETT DEATHS AT ALL AGES BELONG- ING TO THE	NETT DEATHS AT ALL AGES BELONG- ING TO THE
	Population estimated to			Under I y	year of Age.	At all s	all ages.		Residents registered		DISTRICT.
4	Middle of each Year.	Number.	Rate.*	Number.	Rate per 1000 Births registered.	Number.	Rate.*	tions in the District.	Institu- tions in the District.	Number.	Rate.*
	65432	1663	25.4	234	140.7	949	14.3	7.3	1	1	1
	09699	1918	28.6	313	163.2	1198	17.8	82	1	1	1
	68488	1938	28.5	321	165.6	1068	15.5	149	1	1	1
	70437	1962	8.12	289	146.2	1172	9.91	115	1	1	1
	72308	2091	58.9	254	122.4	1083	14.9	133	1	1	1
	73477	2055	27.9	154	73.0	1055	14.3	113	11	1	1
	75344	2222	29.4	256	115.2	1085	14.4	85	3	1	1
	76864	1824	23.7	248	35	1102	14.3	147	35	1	1
	78405	2135	27.3	238	111.4	1029	13.1	121	1	1	1
	79959	2186	27.3	226	103.2	1023	12.8	164	27	1	1
Averages for years 1898-1907	72767	1999	27.4	253	127.6	1076	14.8	118	15		
	81525	2065	25.3	241	116.7	1100	13.4	157	28	1072	13.2

\* Rates calculated per 1,000 of estimated population.

Table 1V. INFANTILE MORTALITY DURING THE YEAR 1908.

Deaths from stated Causes in Weeks and Months under One Year of Age.

	Deaths from stated Causes in W	ee.	KS	an	la	MIOU	th	s t	inc	ier	0	ne	Y	ea	r (	)1 .	Ag	e.
Secretary and the second second	CAUSE OF DEATH.	Under 1 Week.	eek	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-2 Months.	2-3 Months.	3-4 Months.	4-5 Months.	5-6 Months.	6-7 Months.		8 9 Months.	9-10 Months.	10-11 Months.	11-12 Months.	Total Deaths under 1 Year.
(	All Certified Causes Uncertified																	
- Comment	Small Pox Chicken Pox Measles Scarlet Fever Diphtheria (including Membranous Croup)																	
	branous Croup) Whooping Cough			1	1	2	1	1	2	4		1	2	2	1	1	1	18
	Diarrhœa, all forms Enteritis, Muco-enteritis, Gastro-enteritis Gastritis, Gastro-intestinal Catarrh				1	1 1 3	7 1 4	3 1 2	1			••••	1		4	1	1 1	38 6 12
	Premature Birth  Congenital Defects Injury at Birth Want of Breast Milk, Starvation Atrophy, Debility, Marasmus	38 6 4	3		3	9			•••									45 11 4 4 20
apple .	Tuberculous Meningitis Tuberculous Peritonitis: Tabes Mesenterica Other Tuberculous Diseases				1	1		1						1	1			4 4 3
	Erysipelas Syphilis Rickets Meningitis (not Tuberculosis) Convulsions Bronchitis Laryngitis Pneumonia Suffocation, overlying Other Causes	4	3					 1 2	2 3	 2 	3	2	 1 4	i	1 2	1	 2	1 1 2 20 26 26
		60	14	5	10	89	33	14	21	20	16	5	12	7	10	8	6	241

Under and and under under 5         15         25         35         45         55         65         75           Year.         5         15         25         35         45         55         65         75         upwards	M F M F M F M F M F		10 2 1 1	1 4 1 6 1 1		1 1 3 1 5 1 2 1		1			8 6 4				1	
Ur	M		29	:	:	:	:	:	:	: '	6		:	:	:	
CAUSE OF DEATH.		Zymotic Diseases.	Diarrhœa	Diphtheria	Simple Continued Fever	Typhoid Fever	Typhus Fever	Measles	Scarlet Fever -	Small-pox	Whooping Cough	Other Infectious Diseases.	Relapsing Fever Vaccinia (Cow-pox)—	Vaccination	Varicella (Chicken-pox)	D.: L. 11. /D :: t. 1

All Ages Total.		18:	:	::	00	_	33	_		1	:	:	• • • • • • • • • • • • • • • • • • • •	: "	<b>-</b>	1
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45 and under 55 M F		: 9	:	:	4	:	1	:	:	:	:	:	:	:	-	:
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25 and under 35 M F		: :	:	:	7	:	:	:	:	:	:	:	:	:	:	:
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CAUSE OF DEATH.	Other Infectious Diseases— continued.	Epidemic Parotitis (Mumps)	1	Cerebro-spinal Meningitis	,	1	Septicæmia and Pyæmia— Septicæmia	Septico-Pyæmia	Terminal Infectious	Rheumatic Fever	Cholera Asiatica	er	The Bubonic Plague	1	1	
USE	her	ic I	3	ids-	onia	las	cæn	CO-F	ina	atic	AS AS	Fev	pon	ery	×	
CA	0	Epidemic Influenza	Dengue	ebro	Pneumonia -	Erysipelas	pticæmia an Septicæmia	epti	erm	anm	lera	Yellow Fever	Bn Bn	Dysentery	Anthrax	Malaria
		Epi	Den	Cer	Pne	Ery	Sep	S	Ţ	Rhe	Cho	Yel	The	Dys	Ant	Ma
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All Ages TOTAL.			:	:	ಣ	67	:	::	60	13	1	98
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65 and under 75	74		:	:	:	:	:	:	:	-:	:	7
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45 and under 55	14		:	:	7	:	:	:	_	:	:	1-
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35 and under 45	H		:	:	;	:	:	:	:	-	:	-
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15 and under 25	(II		:	:	:	:	:	:	:	2	:	12
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CAUSE OF DEATH.		Other Infectious Diseases— continued.	Tetanus	Actinomycosis	Acquired	Congenital	Visceral	Gonorrhœal Infection -	Tuberculosis—		phatic System	(Phthisis, Consumption)

All Ages Total		1	:	:	1	:	: 60	10		1
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65 and under 75 M F		:	:	:	:	:	: :	: :		:
55 and under 65		:	:	:	:	:	:	: :		:
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Under 1 Year. M F		:	:	:	:	:	: 6	1 67		:
CAUSE OF DEATH.	Other Infectious Diseases—contd.	Tuberculosis— Of the Alimentary Canal -	Of the Liver Of the Brain and Spinal	Cord	System	Of the Mammary Gland -	Of the Circulatory System	Meninges	The Intoxications and Sunstroke.	Alcoholism— Chronic Alcoholism

CAUSE OF DEATH,	Under 1 Year. M F	Under 1 Year. M F	and under 5 M F		5 and under 15 M F		and under 25 M F		25 and under 35 M F	35 and under 45 M F	r dd d	45 and under 55 M F	red d	55 and under 65 M F		65 and under 75 M F	75 and upwards M F		All Ages Total.
The Intoxications and Sunstroke—continued.																			
Alcoholism																			
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Chronic Rheumatism			-				-		:				-				_		22

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CAUSE OF DEATH.		Diseases of the Digestive	System—continued.	Diseases of the Mouth—	Mercurial Stomatitis -	Eczema of the Tongue -	Leukoplakia Buccalis -	Diseases of the Salivary	Glands-	Supersecretion	Xerostomia	Inflammation of the Sa-	livary Glands	Diseases of the Pharynx—	Circulatory Disturbances -	Acute Pharyngitis -	Chronic Pharyngitis-	Ulceration of the Pharynx	Acute Infectious Phleg-	mon of the Pharynx -	Epithelioma of Tongue

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CAUSE OF DEATH.		Diseases of the Digestive System—continued.	Diseases of the Pharynx— Retro-pharyngeal Abscess-	Angina Ludovici	Follicular or Lacunar Ton-	sillitis	Suppurative Tonsillitis -	Diseases of the Œsophagus— Acute Œsophagitis -	Spasm of the Œsophagus - Stricture of the Œsopha-	sng sng	Cancer of the Œsophagus	Rupture of the Œsopha-		Dilatations and Diverti-	cula

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CAUSE OF DEATH.		Diseases of the Digestive System—continued.	Diseases of the Stomach-	Acute Gastritis	Phlegmonous Gastritis -	Toxic Gastritis	Diphtheritic Gastritis -	Mycotic Gastritis	Chronic Gastritis	(Chronic Dyspepsia) -	Dilatation of Stomach	Peptic Ulcer (Gastric	and Duodenal) -	Cancer of Stomach	Hypertrophic Stenosis of	the Pylorus -	Hæmorrhage from the	Stomach	Neurosis of the Stomach -

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CAUSE OF DEATH.	Diseases of the Digestive System—continued.	Diseases of the Intestines— Diseases of the Intestines	associated with Diarrhœa: Catarrhal Enteritis	Diarrhæa	Enteritis in Children -	Diphtheritic or Croup-	ous Enteritis -	Phlegmonous Enteritis -	Ulcerative Enteritis	Appendicitis (Typhlitis and	Perityphlitis)	Intestinal Obstruction	Malignant Disease -	P	Miscellaneous Affections -	Mucous Colitis -

Diseases of the Digestive System—continued.  Diseases of the Intestines— Miscellaneous Affections— Dilatation of the Colon Intestinal Sand Tabes Mesenterica - 1 Diseases of the Liver— Jaundice (Icterus) Icterus Neonatorum Acute Yellow Atrophy	Year.  M F  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	under 5 M F		and under 15 M F F		and under 25 M F		and under 35 and 85 in F	and under 45 M F	i i i i i i i i i i i i i i i i i i i	and under 55 M F F		and under 65 65 W F F		and under 75 M F	and upwards  M F		All Ages  Total.   3
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CAUSE OF DEATH.	Diseases of the Digestive System—continued.	Diseases of the Liver-	Amyloid Liver -	Anomalies in Form and Position of the Liver	Diseases of the Pancreas-	Hæmorrhage -	Acute Fancreatitis -	Tumors of the Pancreas	Pancreatic Calculi	Diseases of the Peritoneum-	Acute General Peritonitis	Peritonitis in Infants	Chronic Peritonitis -	Localized Peritonitis	New Growths in the Peri-	toneum .

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CAUSE OF DEATH.		Diseases of the Digestive System—continued.	Diseases of the Peritoneum— Ascites (Hydro-peritoneum)	Diseases of the Respira- tory System.	Diseases of the Larynx—Acute Catarrhal Laryngitis	Chronic Laryngitis	CEdematous Laryngitis -	(Laryngismus stridulus)	Tuberculous Laryngitis -	Syphilitic Laryngitis .	Diseases of the Bronchi— Acute Bronchitis -	Chronic Bronchitis	Bronchiectasis

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CAUSE OF DEATH.		Diseases of the Respiratory System—continued.	Diseases of the Bronchi— Bronchial Asthma	Fibrinous Bronchitis -	Diseases of the Lungs— Circulatory Disturbances		Broncho-pneumonia (Ca- pillary Bronchitis)	monia (Cirrhosis of Lung)	Pneumonokoniosis -	Emphysema	Gangrene of the Lung -	New Growths in the Lungs	Diseases of the Pleura—	Acute Fleurisy	Fibrinous or Plastic Pleurisy

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CAUSE OF DEATH.		Diseases of the Respiratory System—continued.	Diseases of the Pleura—	Acute Pleurisy—	Pleurisy	Sero-fibrinous Pleurisy -	Purulent Pleurisy (Em-	pyema)	Tuberculous Pleurisy -	Other Varieties of Pleurisy	Hudrothornsy -	Pneumothorax (Hydro-	pneumothorax and Pyo-	pneumothorax)	Tumour of the Medias-	tinum

CAUSE OF DEATH.	Under 1 Year,	ler r.	1 and under 5		5 and under 15	Н	and under 25		25 and under 35	a H	35 and under 45	45 and unde	45 and under 55	55 and under 65	l er	65 and under 75		75 and upwards	All Ages	ges II.
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CAUSE OF DEATH.		Diseases of the Circulatory System—continued.	Diseases of the Heart (Cardiac Disease Undefined)—	Combined Valvular Le-	sions -	Hypertrophy of the Heart	Dilatation of the Heart -	Fatty Heart	Aneurism of the Heart	Rupture of the Heart - New Growths and Para-	sites	Wounds & Foreign Bodies	Neurosis of the Heart-	Angina Pectoris - Congenital Affections of	

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CAUSE OF DEATH.	Diseases of the Circulatory System—continued.  Diseases of the Arteries— Degenerations	Arterio-sclerosis (Arterio- capillary Fibrosis -	Aneurism of the Thoracic Aorta Aneurism of the Abdo-	minal Aorta - Aneurism of the Com-	mon Carotid	Arterio-venous Aneurism -	Congenital Aneurism -	Diseases of the Blood and Ductless Glands.  Anæmia— Secondary Anæmia -	

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CAUSE OF DEATH.	Under 1 Year.	_	and under 5		and under 15	and under 25	and nder 25	and under 35		and under 45	a	and under 55	and under 65	d	and under 75		75 and upwards	All Ages Total.
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Diseases of the Blood and Ductless Glands—contd.																		
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CAUSE OF DEATH.	the B	Diseases of the Kidn Malformations Circulatory Disturbances Uræmia Acute Bright's Disease Chronic Bright's Disease Chronic Parenchymat	tis . ntersti
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CAUSE OF DEATH.		Diseases of the Kidneys-	Pyelitis	Addison's Disease - Nephrelithiasis (Renal Cal-	culus)	Tumours of the Kidney -	Cystic Disease of the Kidneys	Perinephric Abscess	Pyelo-Nephritis	Diseases of the Nervous System.	Progressive (Central) Mus-	Bulbar Paralysis Progressive Neural Muscular	Atrophy	General Faralysis of Insane

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CAUSE OF DEATH.		Diseases of the Nervous System—continued.	Spastic Paraplegia	Spastic Paralysis of Infants -	Hereditary Spastic Paraplegia	Erb's Syphilitic Spinal Far- alysis	Secondary Spastic Paralysis -	Chronic Anterior Polio myelitis -	Acute Anterior Polio-myelitis	myelitis in Adults -	Paralysis	Asthenic (Bulbar) Paralysis -	Ataxic Parapelgia	Primary Combined Sclerosis (Putnam) -

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CAUSE OF DEATH.		Cardina Library and Control of Co	Diseases of the Nervous System—continued.	Hereditary Ataxia (Fried-reich's Ataxia) -	Affections of the Meninges,	Diseases of the Dura Mater	Septic Pachymeningitis	Diseases of the Pia Mater	Posterior Basal Meningitis of Infants	Scleroses of the Brain -	Cerebral Softening .	Chronic Diffuse Meningoen- cephalitis	

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CAUSE OF DEATH.	Diseases of the Nervous System-continued.	Tumors of the Spinal Cord and its Membranes -		Acute Myelitis	Diffuse and Focal Diseases of the Brain -	Aphasia	Affections of the Blood-	Hyperæmia	Anæmia	Œdema of the Brain .	Cerebral Hæmorrhage -	Embolism and Throm-	bosis	Aneurism of the Cerebral	Arteries

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CAUSE OF DEATH.		Diseases of the Nervous System—continued.	Diffuse and Focal Diseases of the Brain—	erebral		Hemiplegia in Children		Inflammation of the Brain— Acute Encephalitis -	Abscess of the Brain -	heral	Neuritis (Inflammation of the Bundles of Nerve Fibres

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CAUSE OF DEATH.	Diseases of the Nervous System—continued.  Diseases of the Peripheral	Neuromata	Paralysis Agitans Acute Chorea (Sydenham's	Chorea; St. Vitus's Dance)	Infantile Convulsions (Eclampsia)	Epilepsy	Ill-defined or not Specified	Developmental Diseases Premature Births Debility from Birth Injury at Birth

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CAUSE OF DEATH.	A STATE OF THE SHARE IN	Developmental Diseases-	Spina-bifida -	Other Congenital Defects	Senility	Diseases of the Organs of Generation—	Ovarian Disease	Diseases of Uterus and	Vagina (Carcinoma) -	Disorders of Menstruation	Pelvic Abscess -	Perineal Abscess -	Diseases of testes, penis,	scrotum, bladder, etc.	Diseases of Parturition-	Phlegmasia Alba Dolens -	Abortion, Miscarriage	Puerperal Mania -

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CAUSE OF DEATH.	Steam of Linkington	Developmental Diseases—	Diseases of Parturition— Puerperal Convulsions Placents Praesis & Flood	ing Other and Hodefined Ac	cidents of Child-birth	Diseases of Integumentary System—	Phlegmon, Cellulitis	Lupus	Ulcer, Rodent	Eczema	Cancer of Breast - Other and Undefined Dis-	cases of Integument- ary System

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45 and under 55	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:	: :	:	:	:	:	:	:	:	1 ::	
		:	: :		:	:	:	:	:	:	:	
35 and under 45 M F		: -	- :		:	:	:	:	:		1	
		:	: :		:	:	:	::	:	:	:	
25 and under 35 M F	-	:	: :	-	:	-	:	-	:	:	,	
15 and under 25 M F		:	: :	:	:	:	:	:	:	:	:	- 1 1111
uno 2 M		:	: :	:	:	:	:	7	:	:	1	
5 and under 15 M F		:-	1 :	:	:	:	:	:	:	:	:	
un [ M		:	: :	:	:	:	:	_	:	:	67	
and under 5		:	: :	:	:	:	:	:	:	:	7	
		:	: :	:	:	31	:	:	:	:	:	
Under 1 Year. M F		:	: :	:	:	:	:	:	:	:	-	
D X X		:	: :	:	:	:	:	:	:	:	n	
4	Ses -	•		•	1	•	•			1	Other and Undefined Forms	
ATH	sea				1	1		1	1		d F	
CAUSE OF DEATH.	Developmental Diseases-			- 8			,		,		euue	
OF	nental Di			pun			-		,	,	Jude	
USE	bmd co		Suc	t wo	q	cald		28	ion	50	l pu	
CA	relo	Inquests	Contusions -	Gunshot wounds -	Cut, Stab	Burn, Scald	son	Drowning	Suffocation	Hanging	er a	
	Der	Ing	Con	Gur	Cut	Bur	Poison	Dro	Suff	Han	Oth	

TABLE VI.

### GIVING NUMBER OF BIRTHS AND DEATHS OF INFANTS UNDER ONE YEAR DURING 1908 AND 10 PREVIOUS YEARS.

Year.	No. of Births.	No. of Deaths.	Rate per 1000 Births Registered
1898	1663	234	140.7
1899	1918	313	163.2
1900	1938	321	165.6
1901	1962	289	146.2
1902	2091	256	122.4
1903	2055	154	73.0
1904	2222	256	115.2
1905	1824	248	135.9
1906	2135	238	111.4
1907	2186	226	103.3
1908	2065	241	116.7

TABLE VII COMPARATIVE TABLE,

Showing Birth Rate, Death Rate, and Analysis of

Mortality in the 53 Weeks ended 2nd January, 1909.

Cities and Boroughs.		Birth Rate.	Death Rate.	Principal Zymotic Rate.	Deaths under 1 Year to 1000 Births.
76 Large Towns	-	26.9	14.9	1.59	129
London -	-	25.2	13.8	1:35	113
Liverpool -	-	31.7	19.2	2:19	141
Manchester -	-	29.1	18.2	2.25	151
Birmingham -	-	28.4	15.9	1.86	144
Leeds -		24.8	15.3	1.49	137
Sheffield -		30.7	15.8	1.85	140
Bristol -	-	23.1	13.6	1.16	126
Newcastle-on-Ty	ne -	29.7	16.0	1.26	136
Hull -	-	30.2	16.2	2.19	145
Nottingham -	-	26.6	15.2	1.25	145
Leicester -	-	23.4	13.0	1.53	131
Portsmouth -	-	28.4	13.8	0.97	- 99
Cardiff -	-	26.6	13.0	1.10	125
Bolton - S	W -	24.5	15.4	1.70	148
Sunderland -	-	33.0	17.7	1.86	146
Blackburn -		25.0	15.7	1.56	149
Derby -		25.9	13.1	0.95	112
Plymouth -	-	22.2	15.0	0.91	129
Devonport -	-	25.4	13.3	1.21	125
Preston -	-	27.7	18.0	2.24	153

# INFECTIOUS DISEASES (NOTIFICATION) ACT.

The following diseases are notifiable in the Borough:—

Small-pox.

Cholera.

Diphtheria.

Membranous Croup.

Erysipelas.

Scarlatina.

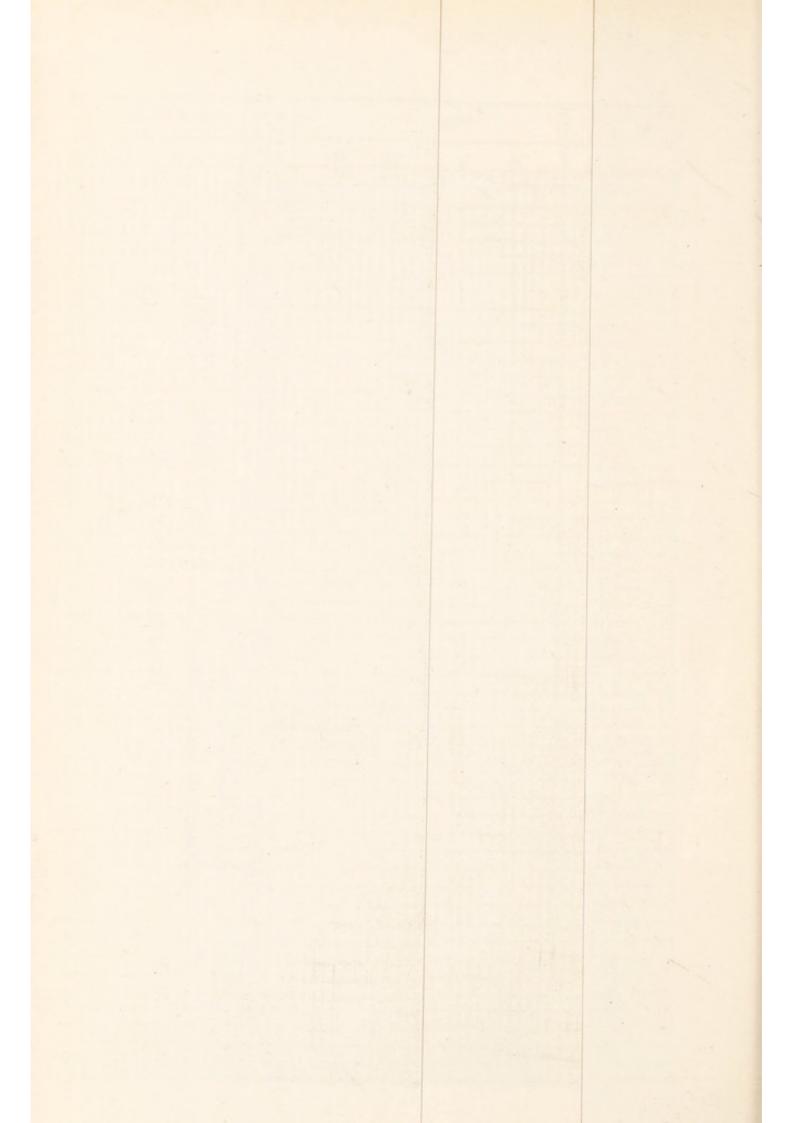
Typhus.

Typhoid.

Relapsing.

Continued and Puerperal Fevers.

The number of notifications received during the year was 321, being 42 less than in 1907. Of these 9 cases were found on further examination to be suffering from disease of a non-infectious nature.



Making the necessary corrections the infectious diseases which occurred in the Borough were as follows:—

Diphtheria		110
Membranous Croup	}	 116
Erysipelas		 30
Scarlatina		 94
Typhoid Fever		 66
Puerperal Fever		 6
Total		 312

Cases of Infectious Disease notified during the Year 1908. TABLE VIII.

OTIFIE	ALITY.	Stoke.		1		65	11	63	1	34	1	1	1	1	174	
ASESN	EACH LOCALITY.	St. Aubyn.		1		53	00	13	1	23	1	1	2	1	18	
TOTAL CASES NOTIFIED	IN EA	Татаг.		1		23	11	18	1	17	1	1	1	1	69	
		65 and upwards.		1		1	3	1	1	1	1	1	1	1	3	
ISTRICT.		.db ot ds.		1		9	22	-	1	32	1	1	2	1	69	
HOLE D	Ages-Years.	.62 of 61		!		3	1	5	1	56	1	1	4	1	39	
NOTIFIED IN WHOLE DISTRICT.	At Ages-	.dl o1 d		1		69	3	58	1	10	1	1	1	1	140	
VOTIFIE	,	.d of 1		1		36	-	24	1	9	1	1	1	1	19	
CASES D		Under 1.		1		ಣ	-1	1	1	1	1	1	1	1	3	
	's	At all Age		1		1117	30	94	1	74	1	1	9	1	321	
					snot	,				,	,	•	'	•		
		Notifiable Disease.			Diphtheria (including Membranous						,					
		E Di			ing			,	,	,				,		
		TABL			nclud						ver	ver	er			
		VOTIE	×		ia (ii	-(dr	·	ever	Fever	ever	g Fer	d Fe	1 Fev	'	Totals	
		4	Small Pox	Cholera	hther	Croup)-	Erysipelas	Scarlet Fever	Typhus Fever	Enteric Fever	Relapsing Fever	Continued Fever	Puerperal Fever	ine	T	
			Sma	Cho	Dip		Ery	Scan	Typ	Ent	Rel	Con	Pue	Plague		

## MEASURES ADOPTED TO CONTROL THE SPREAD OF INFECTIOUS DISEASE.

Immediately on the receipt of a notification the sufferer is removed to the Isolation Hospital, all bedding, clothing, and other articles, which have been in contact with the patient removed and disinfected by steam under pressure, the method adopted being that known as the "Washington Lyon's" process, which ensures thorough disinfection.

The room occupied by the patient is thoroughly disinfected by means of the Formalin Spray, or Alformant Lamp.

All sanitary fittings of the house are examined, and notices served where defects are found, the source of the Milk and Water supply investigated, the number of inmates, their occupation and place of employment noted, and the employers notified of the existence of Infectious Disease.

In the case of children attending school, the Education Authority is notified, and the children compelled to remain home until the house is certified free from infection.

Where books from Libraries are found in the infected premises they are confiscated, and the loss made good to the affected Library by the Sanitary Authority.

In those cases notified as not for removal to Hospital, the house is similarly visited and note taken as to whether isolation can be efficiently carried out. Workers in the house have the option of remaining at home till the patient is declared free from infection, or they must obtain lodgings elsewhere after disinfection of their clothing.

In addition to the verbal instructions given by the visiting Inspector, printed forms are left at the infected house which advise the occupiers what to do, and caution them as to the desirability of observing due precaution with reference to receiving visitors, and urge them to refrain from visiting other houses or mixing with the general public. Similar precautions are taken with reference to all non-notifiable diseases which come under our observation, and after deaths from Phthisis, a notice is sent to the nearest relative offering free disinfection of the room occupied by, and all bedding, clothing, etc., which have been in contact with the deceased.

In houses where Small-pox makes its appearance, the measures taken are of necessity much more severe than in the other infectious diseases.

#### SMALL-POX.

The Borough remained free from this disease during the year.

#### PUERPERAL FEVER.

6 cases of Puerperal Fever were notified as compared with 4 in 1907. Of these, 4 occurred in the practice of midwives, and 2 were attended by medical practitioners.

#### ENTERIC FEVER.

Enteric Fever was somewhat prevalent especially during the latter part of the year. 74 cases were reported of which 8 proved to have been incorrectly diagnosed, making the actual number of cases 66. In tracing the origin of the disease it was found that 14 patients had consumed whelks which on bacteriological examination shewed evidence of sewage contamination. The source of supply was immediately stopped, and no further cases were traced to contaminated food.

Bathing in water of doubtful purity was the only cause that could be assigned in 3 cases.

In 8 cases the house drains were found defective, and in the same number the W.C's had no flushing apparatus. The origin of the other cases was not clear. 15 deaths occurred, 35 or 47.29 per cent. of the cases notified were removed to the Isolation Hospital.

TABLE IX.

ENTERIC FEVER during 1908 & 10 previous years.

YEAR.	No. of Cases.	No. of Deaths.	Percentage fatality.	Rate per 1,000.
1898	39	20	51.3	·30
1899	80	9	11.1	·13
1900	37	13	35.1	·29
1901	25	6	24.0	· <b>0</b> 8
1902	44	9	20.4	·12
1903	50	3	6.0	.04
1904	50	9	18.0	·11
1905	82	14	17-(	-19
1906	72	8	11-1	·10
1907	34	6	17.6	.07
1908	66	15	22.7	·18

#### DIPHTHERIA.

117 cases were notified during the year with 13 deaths, giving a percentage mortality of 11.1. It will be seen from the Table that this is the lowest percentage mortality recorded for 10 years, which may reasonably be attributed to the increased use of anti-diphtheritic serum. Of this number, 61 were admitted into the Isolation Hospital.

DEATHS FROM PHTHISIS & OTHER TUBERCULAR

TABLE XI.

## DEATHS FROM PHTHISIS & OTHER TUBERCULAR DISEASES during 1908 and 10 previous years.

Year.	Deaths from Phthisis.	Rate per 1,000.	Deaths from other tubercular diseases.	Rate per 1,000.	Deaths from all forms of tuber- culosis.	Rate per 1,000.
1898	90	1 3	46	.70	136	2.00
1899	94	14	64	.94	158	2.3
1900	101	1.4	48	·70	149	2.1
1901	92	1.3	37	.52	129	1.8
1902	92	1.2	37	·51	129	1,7
1903	90	1.2	37	.50	127	1.7
1904	81	1.07	40	.53	121	1.6
1905	90	1.1	43	.56	133	16
1906	81	1.03	29	·37	110	1.4
1907	63	.8	20	·25	83	1.00
Average for years 898-1907.	88.4	1.18	40	.55	127	1.72
1908	86	1.04	32	.38	118	1.4

#### SCARLET FEVER.

The number of cases notified was 94, being 77 less than in 1907. This is the lowest number recorded since the year 1901.

It will be seen on reference to Table XII. that the decline in the number of cases of this disease has been continuous for some years past. Much of this success has undoubtedly been achieved by the increased Hospital accommodation, and better isolation of a larger number of cases, whilst the immediate disinfection of premises, bedding, etc., and following up contacts, has, I feel sure, gone far to reduce the incidence of the disease.

64, or 68:08 per cent of the cases notified were admitted into the Isolation Hospital.

Only 1 death from this disease was registered during the year.

TABLE XII.

SCARLET FEVER.

During 1908 and 10 Previous Years.

Year.	Number of Cases.	Number of Deaths.	Percentage Fatality.	Rate per 1000
1898	144	4	2:7	.06
1899	201	0	0	0
1900	50	1	20	·01
1901	94	5	5.3	.07
1902	220	7	3.2	.09
1903	442	11	2.7	·14
1904	370	10	2.6	·13
1905	301	11	3.6	·14
1906	151	3	1.9	.02
1907	171	3	1.8	.02
1908	94	1	1.0	·01

TABLE XIII.

SHOWING DEATHS FROM ZYMOTIC ENTERITIS

During 1908 and 10 Previous Years.

Year.	Number of Deaths	Under 1 Yr of Age	1 Year and Upwards.	Rate per 1000
1899	86	77	9	1.2
1900	75	64	11	1.1
1901	31	28	3	.43
1902	36	32	4	.49
1903	34	30	4	.46
1904	51	46	5	.67
1905	24	19	5	·31
1906	28	19	9	.35
1907	21	13	8	·26
1908	43	39	4	.52

TABLE XIV. Showing number of Cases

past .	11427		Т	AMAI	R.		400		S	T. AUF
DISEASE				AGES.			O.F.			AGRS
10001	At all Ages.	under 1	1 to 5	5 to 15	15 to 25	25 to 65	65 & up- wards	At all Ages.	under 1	1 to 5 5
Small-pox	_	_	_	_	_	_	_	<u> </u>	_	-
Cholera	_	_	_	_	_	_	_	_		-
Diphtheria (including Membranous Croup)-		_	4	12	1	_		19	_	3
Erysipelas	_	_	_	_	_	_	_	_	_	-
Scarlet Fever	7		1	4	2		_	8	_	1
Typhus Fever	_	_	_		_		_	_		-
Enteric Fever	5	-	_	1	3	1	_	11	_	3
Relapsing Fever -			_	_	_	_	_	_		-
Continued Fever -	_	_		_	_	_	_	-	_	-
Puerperal Fever	_			_			_	_	_	-
Plague	_	_	_	-	_	_	_	-	_	-
Totals -	29	_	5	17	6	1	_	38	_	7

### removed to Hospital from each Locality.

o 25	25 to 65	65 & up- wards	At all Ages.	under		AGRS.	1	25 to 65	65 & up- wards.	Total number of Cases removed to Hospital (Borough).	Total number of Cases remov- ed to Hospital from Stonehouse
	_		_		_	_		_	_	_	
-	1	-	25	_	12	11	2	_	_	61	1
-	_	-	1 49	-	13	- 20	1 3	_	-	64	_
			-		_	32	-	1		-	
13	4	-	19		3	2	3	11	_	35	1
-	-	-	-	-	-	-	-	-		_	_
-	-	-	-		-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	_
	_	-	-	_	-	-	-	-		_	_
:	5	-	94	_	28	45	9	12	_	161	6

TABLE XV.

## SHOWING CASES SENT INTO THE ISOLATION HOSPITAL INCORRECTLY DIAGNOSED.

DISEASE.			Notified as suffering from-			
			Enteric Fever.	Diphtheria,		
Scarlatina -	-	-	3	_		
Pneumonia -	-	-	1	_		
Pleurisy -	-	-	1	_		
Tuberculosis -	-	-	1	4		
General Paralysis	-	-	1	-		
Nil	-	-	1	-		
Ulcerative Stomat	itis -		_	1		
			8	1 .		

TABLE XVI.

### SHOWING ADMISSIONS INTO HOSPITAL DURING THE YEAR.

AGE.		Admitted.		Remaining in	Total	Remaining in
		Males	females	Hospital at close of 1907.	Admis- sions.	Hospital at close of 1908.
Under 1 year -		2		_	2-1	-
1 to 2 ,,	-	1	_	_	1	-
2 ,, 3 ,,	-	4	4	_	8	_
3 ,, 4 ,, -	-	7	8	_	15	1
4 ,, 5 ,, -	-	10	6	_	16	2
5 ,, 10 ,, .	-	28	41	5	69	7
10 ,, 15 ,, -	-	8	13	4	21	1
15 ,, 20 ,, -	-	2	3	_	5	-
20 ,, 25 ,, -	-	2	10	_	12	1
25 ,, 30 ,, -	-	1	7	_	8	_
30 ,, 35 ,,		3	2	_	5	
35 ,, 40 ,, -	-	3	_	_	3	1
40 and upwards		2	2		4	_
Totals -		71	96	9	167	13

# ARTICLES DISINFECTED AT BOROUGH HOSPITAL.

Mattresses				161
Feather Bed	ds		400	70
Blankets				409
Sheets				264
Quilts				183
Bolsters				72
Pillows				359
Pillow Cove	ers			262
Dresses		•••		124
Skirts				127
Coats, etc.				94
Trousers				63
Waistcoats				32
Carpets				27
Dressing G	owns		•••	16
Curtains				42
Mattress Co	overs			41
Shirts				33
Towels				69
Aprons	•••			44
Blouses	•••			33

Shawls				28
Table Cloth	ns	A KOLLY		10
Cushions				56
Corsets				67 pairs
Boots and	Shoes			133 pairs
Hats and C	Caps		•	37
Braces				35 pairs
Belts				17
Cloaks				184
Jerseys				22
Bed Screen	ıs			6
Scarves				11
Rugs				24
Nightdress	es		wile on	50
Vests				57
Drawers				37
Stockings				46 pairs
Bags				21
Gloves				7 pairs
Handkerch	niefs			47
		TD 1		0.100
		Total		3,420

#### EDUCATION ACTS.

During the year, 2,202 Exemption Certificates were granted to children unable to attend School in consequence of illness.

At the Special School 122 were medically examined and suggestions made where required; 16 new pupils were admitted and 13 discharged. On 9th July, His Majesty's Inspector (Dr. Eicholz) visited the School and in his report expressed satisfaction with the selection of the children, all of whom he considered were certifiable as mentally defective.

From June to August, a number of cases of Measles and Whooping Cough were reported, the schools chiefly affected being St. Budeaux, where the attendance fell from 90.5 per cent. to 83.4 per cent., and Montpelier from 89.5 per cent. to 78.9 per cent.

At no time during the year has any infectious disease assumed epidemic proportions, and it has not been necessary to close any School in the Borough.

# ADMINISTRATIVE PROVISIONS (EDUCATION) ACT.

The duties under this Act are carried out by the Medical Officer of Health and his Assistant. This decision was arrived at from a careful consideration of the Board of Education's Memorandum which recommended that the Local Education Authority should use to the utmost extent the existing machinery of Medical and Sanitary administration.

The work of inspection commenced on March 7th and ended December 23rd, 1908. During this period all children in 29 departments who have been admitted since January, 1908, and are expected to leave before December have been offered the advantages of Medical Examination, 2,080 presented themselves, only six refusing.

Height and Weight of Children:—These calculations expressed respectively in centimetres and kilograms have been found to compare

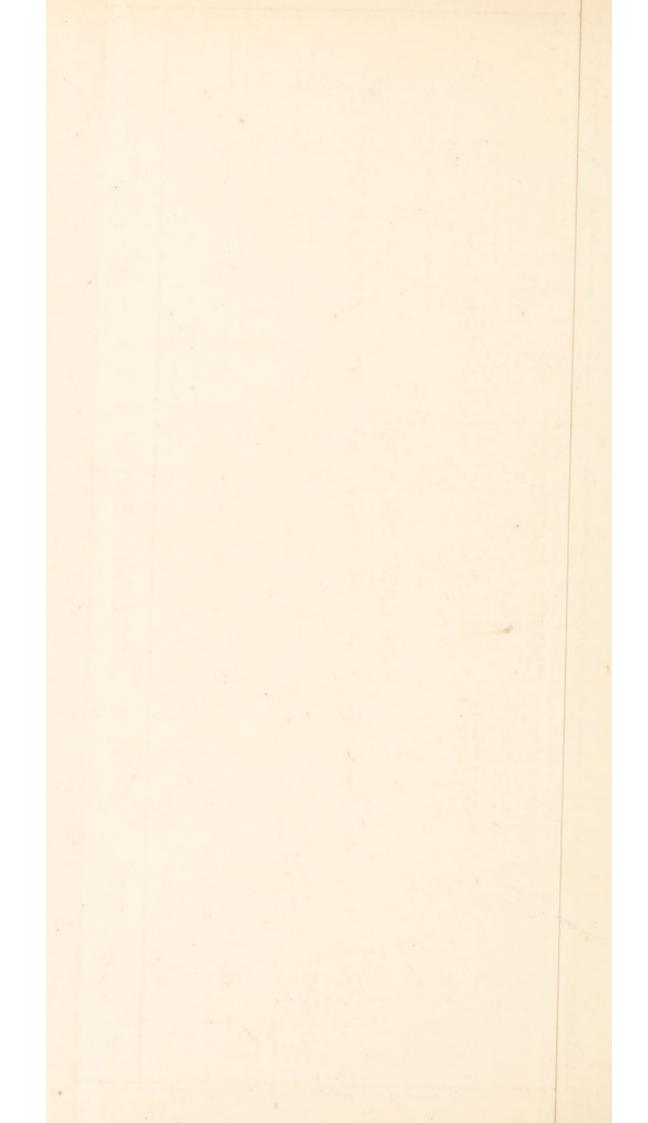
favourably with the British Anthropometrical Association's Standards except in the case of boys between the ages of 11 and 12. Charts 1 and 2 show the average height and weight at each age period.

Clothing and Footgear:—In 90 per cent. of the cases examined the clothing was good, 6.72 per cent. indifferent, while only 3.3 per cent. could be considered bad.

Nutrition:—Nutrition on the whole was satisfactory. Out of the number examined 83 per cent. was good, 10.1 per cent. indifferent, and 6.1 per cent. bad.

Head and Body Cleanliness:—Body cleanliness generally was found to be good. Of 1.115 girls examined 179 had verminous heads. The extent was found to be markedly less in boys.

Condition of Teeth.—As will be seen from the accompanying Table, bad teeth are present to a deplorable extent:—



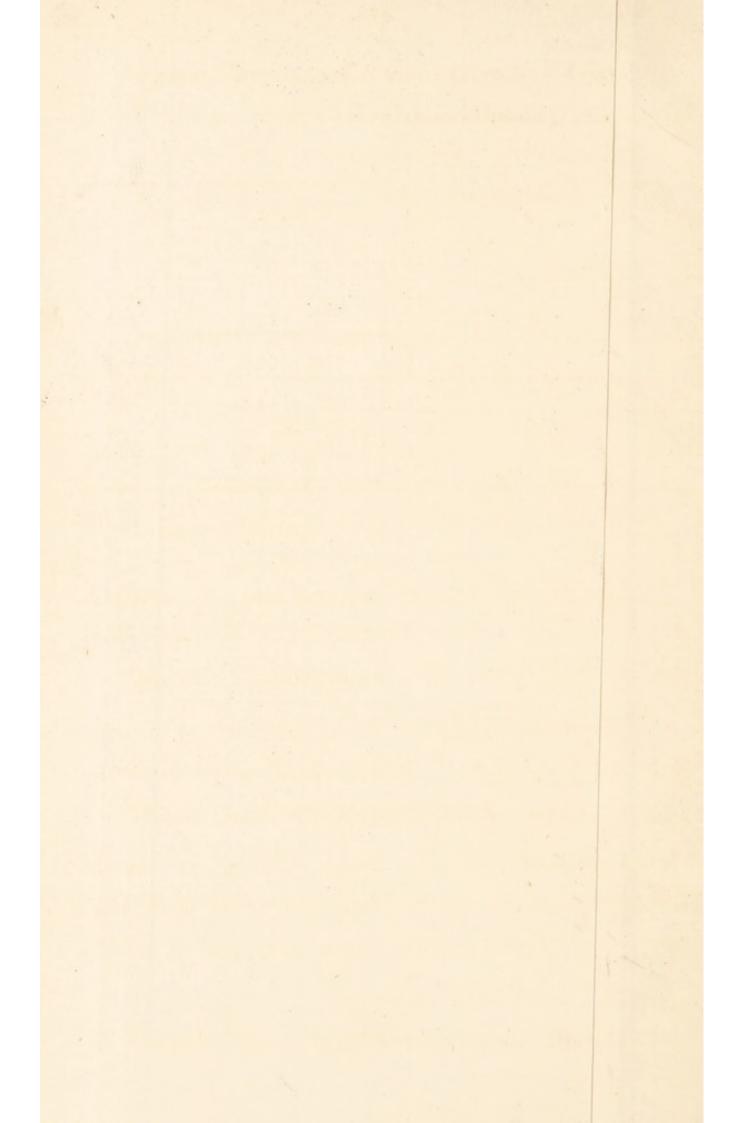


TABLE XVII.

# CONDITION OF TEETH.

(BOYS AND GIRLS).

Age.	No. Good.		Indiff	Indifferent.		Bad.	
		No.	p.c.	No.	p.c.	No.	p.c.
Under 6 yrs.	595	381	64.0	92	15.5	122	20.5
6—12 ,,	1259	450	35.8	352	28.0	457	36.2
Over 12 ,,	224	98	43.7	67	29.4	59	26.3
	2078	928	22.3	511	40.6	638	32.5

It should be understood that "Good" is a strictly relative term as a perfectly sound denture has been seldom found.

Speech.—Defective Speech (in a marked degree) was found in 51 cases, stammering being the most common.

Hearing.—Hearing was bad in 85 cases.

The causes were usually sufficiently obvious.

Otorrhœa was present in 69 children.

Adenoids.—Of the total number examined, 163 were found to be suffering from adenoids, 10 from Nasal Polypi, and 25 from Catarrh and Nasal Catarrh.

Tonsils.—Enlarged Tonsils were observed in 177 cases.

Submaxillary and Cervical Glands.—Glandular enlargements were discovered in 654 instances, and generally speaking were attributable to carious teeth, vermin, and constitutional causes.

TABLE XVIII.
SHOWING CONDITION OF VISION.

			No. Examined	Satis- factory. (6—69)	Per Cent.	Slightly Defective. (%)	Per Cent.	Seriously Defective. (18&over)	Per Cent.
Boys	-		963	770	79.9	149	15.5	44	4.6
GIRLS	-	_	1115	803	72.0	255	22.9	57	5.1

Mental Condition.—In 6 cases, or only 24 per cent. of the children examined, the mental condition was found to be bad.

Heart and Circulation.—Under this head, 11 children were found to be suffering from valvular disease, in 5, the apex beat was conspicuously displaced, and in 54 anæmia was present.

Blepharitis (inflammation affecting the eyelids) was met with in 15 cases.

Other affections of the eye	included :—	
Conjunctivitis or Ophthalmia	L I dissay	8
Keratitis		1
Corneal Ulceration	Spinal - Car	10
Cataract		1
Nystagmus		1
Colour Blindness		1

Lungs.—The number of children suffering from affections of the lungs was:—

Tuberculosis	 	8
Bronchitis	 e-e-t	20
Bronchial Catarrh	 	26

Nervous System.—Under diseases of the Nervous System, Chorea was found in 6 cases, Infantile Paralysis was present in 3 children, and a number suffered from nerve strain of a mild type.

TABLE XIX.

CONDITION OF HEAD.

			No. Exam'd	Satisfa	ctory.	Scu	rfy.	Verm	inous.
			Exam d	No.	p.c.	No.	ν.c.	No.	p.c.
Boys	-	-	963	939	97.5	8	8	16	1.7
GIRLS		-	1115	816	73.2	120	10.8	179	16.0

Rickets:—Of the total number examined 91 were found to be suffering from Rickets.

Spinal Curvature:—Spinal Curvature of the Angular type was observed in 7 cases.

Infectious and Contagious Diseases:—Cases of Contagious Skin disease and Scarlatina in a desquamating condition were discovered as follows:—

Scarlet Fever		•••	2
Whooping Coug	h		3
Favus			2
Ringworm			6
Scabies (Itch)			6
Impetigo			21

Other diseases or defects detected numbered 98. These will be found fully described in the Special Report.

#### MIDWIVES ACT.

In the month of January 24 Midwives notified their intention to practise in the Borough.

Quarterly visits to each Midwife's residence have been made either by my Assistant or myself with the object of ascertaining if her records, mode of practice, etc., are in conformity with the Regulations laid down by the Central Midwives Board. One Midwife was reported to the Board for a gross breach of the Rules, the case however, was not proceeded with owing to the unwillingness of the Medical man (subsequently called in to attend the case) to give evidence.

#### STILL-BIRTHS.

Nineteen Still-births were reported all of which occurred in the practice of Midwives. In every case visits were made, and particulars obtained as to the Midwives' conduct of the labour, methods of resuscitation employed, etc.

#### WATER SUPPLY.

An upward surface supply, it is originally obtained from the upper reaches of the West Dart, Cowsic and Blackbrook rivers on Dartmoor near Princetown.

The gathering ground which is of granitic formation is 4,716 acres, the Dart being 1,539, the Cowsic 1,524 and the Blackbrook 1,653 acres. The highest point is 1,815 feet above Ordnance Datum. The water which is obtained by gravitation is conveyed for nearly 24 miles in an open leat from the gathering grounds to the Reservoir at Roborough, thence to the Storage Reservoir at Crownhill (which is about two miles from the Borough of Devonport) by a pipe line two miles long.

The Reservoirs are four in number, viz:—Belliver, Crownhill, Beacon, and Rowden, the total storage being just over 22,000,000 gallons, about eight days' supply. For a town of the size and importance of Devonport, this storage capacity is totally inadequate, and I am glad to say that at the present time projects are under

consideration which will ensure an ample and uninterrupted water supply sufficient to answer the demands of any probable increase of population for many years to come.

## DEVONPORT WATER

# ANALYSIS OF SAMPLE.

Physical Characters	Clear, pale blue in	
	no deposit, no Parts per	
Saline Ammonia -		a trace
Albuminoid Ammonia		.002
Oxygen absorbed from H	Permanganate	
in three hours at 98.4	4° F	.103
Total Solid Matters		4.300
Volatile do.		2.100
Fixed do.		2.200
Appearance on Ignition	The residue	charred
Total Hardness	ual to emains of Co	
Temporary bor	ual to grains of Ca nate of Lime -	.950
Permanent		
Chlorine -	-	1.100
Nitrogen as Nitrates	-	.000
Nitrogen as nitrites -		.000
Poisonous Metals -		.000
Microscopical Examination	on of the Sediment	none

There is no evidence of contamination shown in the examination. The usual excellent condition of the water is maintained.

Samples of the Water have also been taken from different parts of the Catchment area and subjected to bacteriological examination with the following results:—

- 1. From the Leat, B. Coli in 1cc.
- \*2. ,, Dousland Service Reservoir, B. Coli in 5cc.
  - 3. ., Belliver Reservoir, B. Coli not detected in 20cc.
- \*4. ,, Crownhill Reservoir, B. Coli in 5cc.
  - 5. ,, Filter Beds, B. Coli in 20cc.
  - 6. " Pure Water Tank, Crownhill, B. Coli not detected in 20cc.
  - 7. ,, Devonport Mains, B. Coli in 10cc.

\*Failed to give Indol reaction.

There is no evidence that the presence of B. Coli is in any way due to human contamination, and it can readily be accounted for by access of cattle to certain points of the leat. With efficient filter beds, and the completion of the works now in hand, it is hoped that these or any other possible undesirable constituents will be eliminated.

TABLE XX
Register of Rainfall, 1908.

Date, 1908,	No. 1	Gauge N	o. 2 Gauge	BeardownTor No. 3 Gauge Level 1550 ft.	No. 4 Gauge	Black Dunghill No. 5 Gauge Level 1590 ft
January -		hes. ·80	inches. 4·50	inches. 4·10	inches. 6.25	inches. 5.25
February	- 2	-80	2.70	2.60	3.95	3.15
March -	- 4	65	4.40	4.30	6.10	4.40
April -	. 3	05	3.10	3.08	3.80	3.00
May -	- 2	.95	3.12	2.80	4.35	2.90
June -	- 1	62	1.65	1.53	1.80	1.25
July -	- 4	.20	4.10	3.63	8.60	4.90
August -	- 4	.90	5.10	4.60	6.70	4.60
September	2	.40	3.05	2.60	3.40	2.75
October -	- 2	•40	2.70	2.30	2.80	2.20
November	- 2	.70	2.70	2.30	4.00	3.50
December	Gauge	frozen Ga	auge frozen	Gauge frozen	Gauge frozen	Gauge frozer
Total	- 36	.47	37.12	33.84	51.75	37.90

# COWSIC VALLEY.

# LEVEL 1357-ft. ORD. DATUM.

# RAINFALL, 1908.

						Inches.
January	-		-		-	4.10
February		-		-		5.08
March	-		-		-	4.75
April -		-		-		3.77
May .	-		-		-	5.82
June -		-		-		1.50
July	-		-		-	6.54
August		-		-		6.15
September	-		-		-	4.75
October		-		-		1.80
November	-		-		-	4.35
December		-	-			5.90
			Total			54.51

# LOWERY GAUGE.

# RAINFALL, 1908.

January	-					Inches. 2.99
February		-		-		3.92
March	-		-		-	5.21
April		-		-		3.20
May	-				-	3.35
June		-		-		1.09
July	-				-	4.36
August		-		-		5.08
September	-		-			2.76
October						1.99
November	-		-		-	3.17
December		-		-		6.18
			Total	-	-	43.60
						-

# ROWDENS RESERVOIR.

## LEVEL 201ft. ORD. DATUM.

# RAINFALL, 1908.

						Inches.
January	-		-		-	1.23
February		-				2.46
March	-		110-150		1 - 1	4.09
April		-		- 1		3.19
May	-		-		-	1.86
June		-		-		1.47
July	-		-		-	1.85
August		-				4.16
September	-		-		-	2.89
October		-		-		1.53
November	-		-			1.09
December		1-11-		100-		4.83
			Total	-	1-11-	29.65
						_

#### SEWAGE DISPOSAL AND DRAINAGE.

The sewage of a part of the Borough is discharged into the sea by seven outfalls.

The Borough for drainage purposes is divided into seven districts or drainage areas, each having its own outfall.

A small Septic Tank receives the sewage from those dwellings west of St. Budeaux station, the effluent being discharged into Kinterbury Creek.

The new Septic Tanks which are now in operation are four in number, each 140 feet long, 14 feet wide, and  $8\frac{1}{2}$  feet in depth, and are calculated to contain 24 hours flow of sewage.

There are 16 rectangular Filter Beds, each measuring 60 feet long, 30 feet in width, and  $5^{1}/_{2}$  feet deep.

There are also 4 Sludge Filters, 3 of them measuring 41 feet in length, 30 feet in width, and 2 feet in depth, the remaining one, one third smaller.

The Tanks deal with the sewage of St. Budeaux and Ford Valley, East of Ford Hill, and also receive the sewage from a part of the Crownhill district outside the Borough.

## HOUSE INSPECTION.

The systematic inspection of houses commenced three years ago has been continued during the year, and as will be seen from the Table, numerous defects have been discovered and many reforms introduced.

# GENERAL SANITARY WORK.

TABLE SHOWING DETAILS OF THE WORK DONE DURING THE YEAR.

Number	of Houses inspected -	2,191
,,	,, re-inspected -	2,677
,,	Complaints	177
,,	Orders issued for Sanitary	
	Amendments -	166
,,	Houses repaired -	23
,,	New Drains laid and intercepted	192
,,	Drains repaired -	132
,,	,, flushed -	410
,,	., choked -	179
٠,	,, cleared -	179
,,	,, tested -	486
,,	Gullies fixed -	305
,,	New Dustbins -	332
,,	Dustbins repaired .	_
,,	Pits covered -	_
,,	Notices served -	330
,,	Infectious Diseases notified	321
,,	Cases removed to Borough	
	Hospitals -	161
,,	Visits made under these Acts	482

Number of	f Houses disinfected	-	276
di, voi	Courtyards repaved	U PIASE	119
,,	Water Closets repaired	-	324
,,	Visits to Bakehouses	-	248
,,	" Slaughterhouses	S -	132
71	Sanitary Amendments	-	2,016
,,	Notices (informal and leg	gal)	
	served -	_	496

#### CLEANSING AND REFUSE REMOVAL.

During the year, the refuse collected and disposed of amounted to 26,649 loads, an equivalent of 18,964 tons.

The steady progress made by House to House inspection, and the abolition of a large number of wet and insanitary ashpits by the substitution of refuse bins has greatly improved the general collection of house refuse. It is to be regretted that a large number of pail earth closets still exist in the agricultural part of the town.

The present method of disposal is by discharging into the sea at a considerable distance from the mainland.

The privilege of using the Weston Mill Tip for refuse from the adjoining district was open to much objection during the late summer, and although it might have been a simple and economical arrangement, the prohibition has caused general satisfaction in the surrounding dwellings.

The amount of waste paper collected was 2,016 loads which was destroyed by burning.

Special attention has again been given to Street Cleansing. The frequent washing of all thoroughfares by hosepipe in the early hours of the morning has produced results more satisfactory than any other method of cleansing.

The number of loads of sweepings collected and removed to the available tips amounted to 5,176.

Water used by the water vans amounted to 2,715,980 gallons, in addition to which it was necessary, owing to the prolonged dry weather, to use sea water to the extent of 465,000 gallons.

The unusual fall of snow on March 3rd taxed the energies of the Department for a few days. The number of loads removed from the thoroughfares amounted to 1,072.

## Housing of the Working Classes' Act, 1890.

#### Part II.

Accounts presented to the Local Government Board, in Pursuance of Section 14 of the Housing of the Working Classes' Act, 1890, in respect of the year ended 31st December, 1908.

#### BUILDINGS UNFIT FOR HUMAN HABITATION.

- Number of Dwelling-houses in respect of which complaints were made by Householders during the year (Section 31 (1))
- Number of Dwelling-houses in respect of which representations were made to the Local Authority during the year—
  - (a) By the Medical Officer of Health 1
    - (1) Upon complaints made by Householders, (Section 31 (1)) - 0
    - (2) Without such complaints
      (Section 30) 0
  - (b) By another Officer of the Local
    Authority or upon information otherwise given (Section 32 (1)) 0

3.	Number (if any) of the Dwelling-houses	
	above referred to in respect of which	
	the Local Authority decided not to take	
	any action under Part 2 of the Act.	0
4.	Number of Dwelling-houses respecting	
	which action had been taken under	
	Part 2 of the Act, which were satisfactorily	
	dealt with by the Owner during the year,	
	without a closing order being obtained -	0
	(a) Number made fit for human habita-	
		1
	tion	1
	(b) Number closed or demolished	
	voluntarily	1

# FROM 1st JANUARY TO 31st DECEMBER, 1908.

Name of Street, etc.			No of	Houses
Atherton Place				1
Beaumont Street				11
Belair Road				7
Chard Road				5
Church Street				1
De-la-Hay Avenue				3
Dixon Place				2
Elphinstone Road				9
Ferry Canal (Tamar	Street)			1
Ford Hill				8
Fairfield Avenue				2
Fellowes Place				4
Forest Avenue				2
Hamilton Street				2
Jackson Place				1
Meredith Road				3
Northbrook Street				1
Northesk Street				3

Name of Street, etc.		No. of	Houses
Princes Street			1
Onslow Road			3
Renown Street			2
St. James Place			2
Salisbury Terrace			8
		Total	82

# FACTORIES AND WORKSHOPS ACT, 1901.

#### 1. INSPECTION.

		Number of					
Premises.	I	nspections	Written Notices.	Prosecut'ns			
Factories including Factories	-	44	7	-			
Laundries	-	358	8	-			
Workplaces	-	_		_			
Homeworkers' Premises -	-	384	10				
Total -		78ö	25	_			

#### Table XXII. 2. DEFECTS FOUND.

PARTICULARS.		Found	Remedied.	Referred to H. M. Inspector.	Number of Prosecutions
Want of Cleanliness	-	2	2	-	
Overcrowding	-	10	10	_	_
Other Nuisances	-	24	24	_	-
Sanitary Accommodations  Insufficient - Unsuitable or Defective Not separate for sexes		2 5 3	2 5 3	-	1/1
Total -		46	46	_	_

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TABLE XXIII.

Number.	က က	Lists. Outworkers.	8 22	4	4 145	Wearing Apparel.	9	5	2	179
CLASS.	Matters notified to H.M. Inspector of Factories— Action taken in matters referred to H.M. Inspectors (Notified by H.M. Inspector as remediable under the Public Health Acts but not (Reports (of action taken) under the Factory Act. (Sec. 5)	Homework :	Lists received from Local employers, and number of Outworkers (Sec. 107):	Addresses of Householders   Forwarded to other Authorities	Received from other Authorities	Homework in Unwholesome or Infected Premises:	Notice prohibiting homework in unwholesome premises (Sec. 108)	Cases of Infectious disease notified in homeworkers' premises	Orders prohibiting homework in infected premises (Sec. 110)	Total number of Workshops on Register

#### DISEASES OF ANIMALS ACTS.

#### ANTHRAX.

One case of anthrax occurred during the year which was apparently imported from Cornwall. The animal (a sheep) was found dead under suspicious circumstances in a field on the north side of Alma Road. A bacteriological examination made at the Borough Laboratory showed the cause of death to be anthrax. The carcase was destroyed, and all precautions taken to prevent the spread of the disease. No further case occurred.

#### SWINE FEVER.

During the year, the Swine Fever Order and the Regulation of Movement Order, 1908 came into operation.

Two outbreaks of suspected disease were reported, the first occurring in November at a farm in St. Budeaux the second in December at King's Tamerton. In the first case 65 pigs were affected, of which 4 died, 56 were slaughtered by the Board of Agriculture and Fisheries

Inspector, and 2 by the owner. The second outbreak was confined to 22 pigs, 3 died, and 19 were slaughtered. The condemned carcases in each case were buried in lime.

# SLAUGHTER HOUSES AND BUTCHERS' SHOPS.

The Slaughter Houses and Butchers' Shops in the Borough have been regularly inspected and have on the whole been kept in good condition. 52 visits have been made and 404 carcases of beef, 758 of mutton, 17 of veal, and 300 of pork inspected. In a small number of cases evidence of putrefaction was detected, and on this being pointed out to the vendor the meat was voluntarily destroyed. It should be noted that at least 70 per cent. of the meat sold in the Borough comes direct from the Plymouth Wholesale Meat Market where it is subjected to a very rigid inspection.

Visits have been made to the London and South Western Railway Stations to meet the arrival of vans containing beef, mutton, and pork from outlying districts.

#### BAKEHOUSES.

There are 62 Bakehouses in the Borough all of which have been regularly inspected, and found to be conducted in accordance with the requirements of the Act.

#### OFFENSIVE TRADES.

During the year the premises in which offensive trades are carried on were regularly inspected, 52 visits being made, and generally found in a fairly satisfactory condition. One Bone Boiling Factory has been abolished. The Offensive Trades in the Borough now are:—

- 1 Blood Boiling
- 1 Tripe ,,
- 1 Gut Scraping

#### PICGERIES.

From time to time complaints have been received of nuisances arising from PiggeriesFrequent visits were made, and the nuisance in every case was willingly abated on drawing the attention of the responsible person to it.

#### FOOD AND DRUGS ACTS.

One hundred and eighty six samples taken under the above acts were analysed, 167 were found genuine, and 19 adulterated. Proceedings were taken in 17 cases and fines amounting to £44 4s. 6d. inflicted. It will be noticed from the Table that samples of scald milk have for the first time been taken. The necessity for this procedure is apparent from the fact that the first sample analysed was found to contain 53 per cent. of added water.

TABLE XXIV.

# GIVING DETAILS OF SAMPLES TAKEN DURING 1908.

Number of Samples.	Description	on.		Number Genuine.	Number Adulterated.
59	Raw Milk	_	-	51	8
1	Scald Milk	-		_	1
18	Butter	-	-	18	
16	Cheese	-	-	16	_
16	Preserves	-	-	16	_
10	Cream	-	-	10	_
12	Brandy	-	-	9	3
14	Gin -	-	-	11	3
6	Whisky	-	-	3	3
4	Rum -		-	3	1
16	Lard -	-	-	16	_
6	Vinegar	-	-	6	_
3	Coffee	-	-	3	_
5	Margarine	-	-	5	_
186				167	19

TABLE XXV. Showing Adulterations and Results of Actions taken during 1908.

	1									
Costs.	£ s. d.	ınclusive	*	19 6	1 2 6	1 1 6	1 2 6	19 6	inclusive	:
Fines	£ s. d.	3 0 0	10 0	0 0 9	0 01	0 9	10 0	1 0 0	10 0	18 6
Date of Proceedings.	4th March	25th "	25th "	8th April	3rd June	7th October	7th "	6th Jan. '09	5th February	4th March
Extent of Adulteration.	13 % added water	20 % fat abstracted	3 % added water	8.3 % fat abstracted	3 % added water	12 % added water	15 % added water	53 % added water	Sold without pre-	28.42° under proof
Submitted for Analysis.	4th February	14th "	24th "	2nd March	6th May	8th Sept.	8th "	11th Dec.	8th January	30th "
Date of Purchase.	Raw Milk - 4th February	14th "	24th "	Raw Milk - 2nd March	6th May	8th Sept.	8th "	11th Dec.	8th January	29th "
Description of Article	Raw Milk -	Raw Milk . 14th	Raw Milk -	Raw Milk -	Raw Milk - 6th May	Raw Milk - 8th Sept.	Raw Milk - 8th	Scald Milk - 11th Dec.	Margarine -	Rum -

SHOWING ADULTERATIONS AND RESULTS OF ACTIONS TAKEN DURING 1908—contd. TABLE XXV.

30th January       42·06° under proof       13th March       £ s. d.       £ s. d.       £ s. d.         7th February       54·2° under proof       13th ", 7 10 0       7 10 0       1 5 0         25th Nov.       31·96° under proof       23rd bc.       5 0 0       19 0         25th ", 34·45° under proof       23rd bc.       5 0 0       19 0         30th ", 39·34° under proof       6th Jan. '09       1 0 0       19 0         30th ", 30·71° under proof       6th Jan. '09       1 0 0       19 0         4th February       7 °/o added water       -       No proceedings by order of the do. 5° under proof       -         7th ", 40·5° under proof       -       Ao       Ao       Ao         25th Nov.       28·42° under proof       -       Ao       Ao         Ao       Ao       Ao       Ao	Date of Purchase.	Submitted for Analysis.	Extent of Adulteration.	Date of Proceedings	Fines.	Costs.
cebruary         54·2° under proof         13th         ,,         7 10         0           Nov.         31·96° under proof         23rd Dec.         5         0         0           ,,         34·45° under proof         6th Jan. '09         1         0         0           ,,         40·6° under proof         23rd Dec.         5         0         0           ,,         30·71° under proof         6th Jan. '09         1         0         0           ?ebruary         7°/o added water         —         No proceedings of the do.         —         do.           Nov.         28·42° under proof         —         do.         do.	30t	30th January	42.06° under proof	13th March	£ s. d.	£ s. d.
Nov.       31·96° under proof       23rd Dec.       5 0 0         "       34·45° under proof       23rd "       5 0 0         "       39·34° under proof       6th Jan. '09       1 0 0         "       40·6° under proof       23rd Dec.       5 0 0         '       30·71° under proof       6th Jan. '09       1 0 0         'ebruary       7°/° added water       —       No proceedings of the do.         Nov.       28·42° under poof       —       do.	7th	7th February	54.2° under proof		7 10 0	1 5 6
"       34.45° under proof       23rd       "       5       0       0         "       39.34° under proof       6th Jan. '09       1       0       0         "       40.6° under proof       23rd Dec.       5       0       0         ?       30.71° under proof       6th Jan. '09       1       0       0         ?       40.5° under proof       -       No proceedings of the do.         Nov.       28.42° under poof       -       do.	25th	25th Nov.	31.96° under proof	23rd Dec.		19 6
"       39·34° under proof       6th Jan. '09       1 0 0         "       40·6° under proof       23rd Dec.       5 0 0         "       30·71° under proof       6th Jan. '09       1 0 0         ?°, added water       —       No proceedings of the do.         "       40·5° under proof       —       do.         Nov.       28·42° under poof       —       do.	25th		34.45° under proof		0	19 6
"       40·6° under proof       23rd Dec.       5 0 0         "       30·71° under proof       6th Jan. '09       1 0 0         ?ebruary       7°/o added water       —       No proceedings of the do.         "       40·5° under proof       —       do.         Nov.       28·42° under poof       —       do.	30th		39.34° under proof	6th Jan. '09	1 0 0	9 61
30.71° under proof       6th Jan. '09       1 0 0         7°/° added water       —       No proceedings of the do.         40°5° under proof       —       do.         28°42° under poof       —       do.	25th		40.6° under proof	23rd Dec.	0	19 6
7°/° added water – No proceedings of the 40·5° under proof – do.	30th		30.71° under proof	6th Jan. '09		19 6
40·5° under proof — do do do	4th F	ebruary		1	No proceedings	
28.42° under poof — do.	7th		40.5° under proof	1	do.	do.
	25th	25th Nov.	28.42° under poof	1	do.	do.

GIVING PROSECUTIONS AND FINES
INFLICTED during 1908 and previous years.

YEAR.	Prosecutions.	Fine	s Infli	cted.
		£	s.	d.
1893	Nil.		Nil.	
1894	5	. 5	5	0
1895	4	2	6	0
1896	2	6	0	0
1897	4	2	6	0
1898	6	3	0	0
1899	Nil.		Nil.	
1900	8	6	5	0
1901	3	1	16	0
1902	2	1	1	0
1903	5	2	8	0
1904	Nil.		Nil.	
1905	1	0	10	0
1906	2	2	0	0
1907	12	33	0	0
1908	17	44	4	6

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