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THE GREAT YARMOUTH

URBAN AND PORT SANITARY AUTHORITY.



THE

ANNUAL REPORT

OF THE

Medical Officer of Health,

FOR 1905.

GREAT YARMOUTH:

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TOWN HALL, GREAT YARMOUTH.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I beg to submit my Annual Report for the year 1905.

The general improvement noted in my Report for 1904 has been well maintained, and indeed greatly surpassed in several important particulars. The Birth Rate is slightly lower, but the general Death Rate from all causes, with the special Death Rates from Zymotic Diseases and Tuberculous Diseases, are all lower.

The Infantile Death Rate is relatively satisfactory, being 12 per thousand less than the average for the 76 great towns of England and Wales, which includes Great Yarmouth, and 41 per thousand below the local average. The number of deaths from the notifiable Infectious Diseases again shows a considerable decrease, the number of deaths due to Scarlet Fever dropping from 3 to 1, those due to Diphtheria from 24 to 2, those due to "Fever" increased from 4 to 6, a total gain of 22 lives. All these figures are greatly below the average for the past ten years.

The total number of notifications of cases of Infectious Diseases has also dropped from 419 to 224; the cases of Scarlet Fever dropping from 140 to 114, the cases of Diphtheria from 162 to 33, and the cases of Typhoid Fever from 64 to 38. No case of Small Pox was notified during the year.

The Isolation Hospital in Estcourt Road has afforded accommodation to 62 per cent. of the total number of notified cases of Scarlet Fever, Diphtheria, and Typhoid Fever.

The routine work of the Sanitary Department has been well maintained, and in addition the systematic house to house inspection has been continued.

A considerable amount of extra work was entailed by the flood which occurred in January, with the result that the majority of the houses which were flooded are actually more sanitary than they were previous to that time.

The sanitary work connected with the Port increased owing to the occurrence of a limited epidemic of Typhoid Fever among the fishermen coming from Scotch ports. The epidemic was entirely confined to men who had contracted the disease before they arrived in the haven.

A special Committee was appointed to deal with the situation arising from the existence of Cholera in the Baltic ports; fortunately no case occurred in the haven, so that the preparations made for special inspections, hospital accommodation, and disinfection were not put into force.

I am, Gentlemen,

Your obedient servant,

H. W. BEACH,

Medical Officer of Health.

STATISTICAL SUMMARY FOR THE YEAR 1905.

GENERAL STATISTICS.

-30C

Area of District in acres (excluding area co	vered	
by water		3,566
Population estimated by the Registrar-Ge	eneral	
for the middle of 1905		52,353
Number of persons to the acre		14.6
Estimated number of Inhabited Houses		12,620
Assessable Value of District		£235,792
Product of a Penny General District	Rate	
(4s. 1d. in the £)		£875
Product of a Penny in all other rates (3	s. id.	
in the \pounds)		£890
Total Revenue		£143,591
Net indebtedness		£346,073
VITAL STATISTICS.		
Births registered during 1905 (dece	ennial	
average for the years 1895-1904, 1443)	• •	1437
Birth Rate (decennial average 28.2)		27.4
Total number of Deaths registered during	1905	0
(including deaths of residents in the po		835
Deaths of Non-Residents in Public Institu		33
Net deaths of Residents (decennial average	e 940)	802
Death Rate (decennial average 18.4)		15.3
Deaths of Infants under one year (averag		185
Infantile Death Rate per thousand b	oirths	0
registered (average 169)		128
Death Rate from Zymotic Diseases (av. 2.48)	erage	0.88
21.40		0.00

AREA OF THE BOROUGH.

The total area is 3,566 acres, Gorleston and Southtown occupying 2,148 acres, the Northern Registration District 895 acres, the Southern District 479 acres, and Runham Vauxhall 44 acres.

POPULATION.

The Registrar-General's estimate of the population for the middle of 1905 is 52,353, a number which is calculated by presuming that the population has continued to increase at the same rate as it did during the intercensal period from 1891 to 1901.

This figure appears to be considerably below the truth, as 963 dwelling houses have been erected since the date of the last census, when the enumerated population was found to be 51,316; allowing only 4.5 persons to each house, the gross increase in the population should be 4,333, and, after making an allowance of 445 persons displaced from disused dwelling houses, the net total April population should be 55,204.

The excess of births over deaths, during the same time, has been 2,159, producing a total population of 53,240, but this so-called natural increase in the population does not take into account any immigration into the Borough from other districts. Another serious source of error arises from the fact that the census is always taken in April, when the population of Great Yarmouth is at its lowest. The resident population is increased by at least 50 per cent. during ten weeks in the summer season, and by at least 12 per cent. during thirteen weeks in the fishing season, so that the true average population throughout the year may be taken, at a very moderate estimate, as over 62,000.

The loss of nearly a sixth of the population naturally makes a considerable difference to the death and birth

rates, as all statistical rates must be calculated on the Registrar-General's estimate of 52,353; the estimated populations of the different Districts being:—

Northern District	 19,826
Southern District	 15,402
Gorleston and Southtown	 16,508
Runham Vauxhall	 617

BIRTHS.

The number of Births registered during the year was 1437, producing a Birth Rate of only 27.4 per thousand of the estimated population. This rate is not only lower than the local average for the past ten years, but is also 0.8 lower than the average for the 76 great towns. The Births assigned to the different districts were:—

Northern District		 539
Southern District		 442
Gorleston and South	town	 427
Runham Vauxhall		 29

Ninety-five births were registered as illegitimate, and are included in the totals.

DEATHS.

The total number of Deaths registered in the Borough was 845, but of this number 33 were non-residents dying in Public Institutions, and 10 were non-residents dying in the Port. Deducting the 43 deaths of non-residents, the net total of deaths during 1904 was 802, producing a net Death Rate of 15.3 per thousand of the population, as compared with a Death Rate of 15.7 for the 76 great towns, and 15.2 for the whole of England and Wales.

The Death Rate is 3.1 lower than the local average for the past ten years, an annual saving of over 150 lives.

Deaths in Public Institutions. One hundred and sixty-five deaths occurred in Public Institutions, distributed as follows:—

Workhouse Infirmary		 97
General Hospital		 52
Isolation Hospital		 3
Gorleston Cottage Ho	spital	 I
Royal Naval Hospital		 12

Excluding the deaths of 33 non-residents, the number of residents dying in Public Institutions was 132, an average number.

Ages at Death. Of the total number of deaths, 64 per cent. occurred during infancy or old age, 3 per cent. occurred during the school ages (5-15), and the remainder during the fifty years of working life (15-65).

The death-rate in 1905 was 3.1 below the average for the previous ten years, and was also considerably below the death rate in any single year, that for 1902 being the nearest, when it was 16.5 or 1.2 higher than in 1905.

In the following table the differences in the numbers from the more important causes of death are set forth, comparison being made between the numbers for 1905 and the average annual number for the previous ten years.

Notifiable Zymo	tic Diseases,	44 dec	crease in 1905
Non-notifiable	ditto	55	do.
Influenza		20	do.
Respiratory Dis	eases	28	do.
Heart Diseases		27 inc	rease in 1905

The most considerable decrease has occurred in the group of diseases classed as zymotics, the notifiable zymotic diseases being reduced to one-sixth of the average, and the non-notifiable zymotic diseases to two-fifths. The number of deaths from the non-notifiable diseases and from influenza and respiratory diseases cannot be directly influenced by the action of a sanitary authority, so that the reduction in the number of deaths from these

diseases must be regarded as a fortunate circumstance which may not recur, but the reduction in the number of deaths from the notifiable diseases may be fairly regarded as in great part due to the direct action of the Corporation, and may be expected to recur.

The Registrar-General in his Annual Summary gives an interesting table, which affords a possibility of making a fair comparison between the death rates in the 76 "Great Towns." In this table the recorded death rate for each town is corrected by a figure, which makes allowance for variations in the distribution of different ages and sexes in the various towns, the correction for Great Yarmouth being the greatest for any town as the number of aged people, *i.e.* people who are more likely to die, is so unusually great in Great Yarmouth that a special allowance is made by the Registrar General.

The importance of making this correction is seen when the position of Great Yarmouth in the list of the 76 great towns is compared before and after correction. Without this correction Great Yarmouth stands forty-second, but after correction it is placed twenty-first, above many towns which at first sight appear to be more healthy, judging by the recorded death rate.

This corrected death rate is of course calculated on the Registrar-General's estimate of the population, which, as I have shown above, is considerably below the actual average local population, but even so the official position of the town is not unsatisfactory.

INFANTILE MORTALITY.

One hundred and eighty-five children died before they had reached the age of twelve months. This number produces an Infantile Death Rate of 128 per thousand births registered, 41 per thousand under the average for the past ten years, and a decrease of 37 on the corresponding figure of 1904. Table V. on page 25 shows the certified causes of deaths at various ages under twelve months. The table will repay attention, the most noteworthy point being that more than a third of the total mortality occurred in babies under one month old. Thirty-two of these children were certified to be prematurely born, and in addition 12 were certified to be suffering from congenital defects or disease, so that 44 out of the 67 children who died when less than one month old were greatly handicapped at the start of their struggle for a separate existence. It should be possible to reduce this enormous mortality, and it is to be hoped that the newly constituted Committee, specially appointed to deal with this subject, will receive the support which it will need.

The members of this Committee have recorded their opinion that steps should be taken to obtain the compulsory notification of all births within 48 hours of their occurrence. This is essential if infantile mortality is to be seriously combated, for it is during the first three days of a child's life that the mode of feeding is settled. If the information is delayed for even so short a period as one week, the time has passed when it might have been possible to persuade the mother to fulfil her maternal duties to the utmost by suckling her child, thus enormously reducing the risk of at least one great source of infantile mortality, viz,: Summer Diarrhœa (v. pp. 16). Of course I do not mean to suggest that breast feeding is a panacea for all infantile disorders, nor do I suggest that bottle feeding means certain disease, but all statistics show that bottle feeding under proper conditions is out of the reach of the average mother, owing to the difficulty and constant worry which it entails, not to mention the expense of a sufficiency of good cows' milk, which is a serious matter to a poor family.

The subject of infant feeding is taught in the elementary schools, but it is obviously impossible to lay

stress on the only natural food for infants, the consequence being that the lessons are largely occupied in attempting to teach children the best methods of preparing and administering what is after all only a makeshift for the natural food.

The solution of the difficulty may be found in utilising the services of volunteer helpers who are acquainted with the localities in which they are working; this should be practicable under the present local conditions, and appears more useful than the distribution of circulars or the wholesale provision of sterilised milk.

The number of deaths under one month is very important from a preventive point of view, as the existing Acts concerning the Registration of Births permit a delay of six weeks before registration becomes compulsory. As a natural result it not infrequently happens that a child is dead before its birth is registered, with the further result that it is impossible to bring any public influence to bear on the parents or guardians if reliance is placed on the Registrars' returns alone.

The principal causes of the total infantile mortality stated in percentages are :—

From	Wasting Disea	ases	 43.8
"	Diarrhœal Dis	seases	 18.9
,,	Tuberculous I	Diseases	 7.6
,,	Respiratory D	iseases	 14.1
,,	Convulsions		 4.3
"	Overlaid		 2.2
,,	Syphilis		 1.6
,,	Meningitis		 1.6
,,	Common Infe	ctious	 1.6
,,	Unclassified		 4.3

The death rate among illegitimate children was, as usual, more than twice that among legitimate children, the rates per thousand births being 263 and 119 respectively.

TABLE I.

VITAL STATISTICS OF WHOLE DISTRICT DURING 1905 AND PREVIOUS YEARS.

	l to r.	Des		TOTAL	DEATHS N THE I	REGIST	TERED .	Insti- ict.	nts stitu-	DEAT	ETT CHS AT AGES
	estimated each year.	1511	RTHS.		1 year	At all	Ages.	Public Distri	-reside blic In Distric	BELO	NGING THE
Year.	Population est middle of eac	No.	Rate.*	No.	Rate per 1000 Births regis- tered.	No.	Rate.°	Total Deaths in Public Insti- tutions in the District.	Deaths of Non-residents registered in Public Institu- tions in the District.	No.	Rate.
1	2	3	4	5	6	7	8	9	10	11	12
1895 1896 1897 1898 1899 1900 1901 1902 1903 1904	50,167 50,365 50,564 50,763 50,963 51,165 51,367 51,610 51,851 52,099	1473 1438 1487 1412 1479 1396 1469 1406 1426 1453	$28.60 \\ 27.24$	269 220 274 306 251 277 244 204 173 240	183 153 184 216 169 198 165 145 121 165	960 872 966 1124 981 1135 950 893 960 927	19.13 17.31 19.1 22.14 19.24 22.18 17.9 17.3 18.51 17.6	140 119 120 164 173 205 194 185 244 169	26 15 17 37 72 60 18 41 36 40	934 857 949 1087 909 1075 932 852 924 887	18.61 17.01 18.76 21.41 17.83 21.01 18.10 16.50 17.82 17.02
Averages for Years 1895-1904.	51,091	1443	28.27	246	170	977	19.04	171	36	941	18.40
1905	52,353	1437		185		845			43	802	

[°]Rates in columns 4, 8, and 12 calculated per 1,000 of estimated population.

Note.—The deaths included in column 7 of this Table are the whole of those registered during the year as having actually occurred within the district or division. The deaths included in column 11 are the number in column 7, corrected by the subtraction of the number in column 10.

By the term "Non-residents" is meant persons brought into the district on account of sickness or infirmity, and dying in public institutions there.

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

Area of District in acres (exclusive of area covered by water) - 3566
Total population at all ages ... 51,316
Number of inhabited houses ... 11,821
Average number of persons per house 4.3

At Census of 1901.

TABLE II.

VITAL STATISTICS OF THE SEPARATE LOCALITIES IN 1905 AND PREVIOUS YEARS

-		-		-			_			-	-			-
all.	Deaths under 1 year.	d.	7	0	10	1 7	0	00	2.3		10	70	90	70
auxh	Deaths at all Ages.	0,	14	1	11	14	1 00	6	19	7	1 10	6	6	10
am V	Births registered.	9	000	176	53	200	16	24	16	18	28	22	150	29
Runham Vauxhall.	Population esti- mated to middle of each year.	a.	605	808	809	609	610	119	615	613	614	615	610	617
омл.	Deaths under I year.	d.	56	54	365	103	76	74	70	89	54	78	73	47
Southte	Deaths at all Ages.	C.	182	178	241	270	208	245	282	236	227	272	229	184
on and	Births registered.	ъ.	396	440	455	458	455	444	461	451	471	466	449	427
Gorleston and Southtown	Population esti- mated to middle of each year.	α.	13,979	14,211	14,444	14,678	14,917	15,156	15,393	15,677	15,934	16,219	15,061	16,508
	Deaths under I year.	d.	110	73	83	84	78	7.9	71	63	57	TL	77	51
Southern District.	Deaths at all Ages.	0.	324	309	287	335	328	298	286	253	309	240	297	229
thern]	Births registered.	9.	472	473	485	420	517	442	463	431	431	409	454	442
Sor	Population esti- mated to middle of each year.	α.	15,712	15,682	15,650	15,619	15,583	15,550	15,518	15,491	15,468	15,435	15,570	15,402
	Deaths under I year.	d.	96	91	94	115	95	121	86	72	65	98	93	82
District.	Deaths at all Ages.	С.	440	878	427	505	442	523	402	828	383	366	431	878
Northern District.	Births registered.	р.	572	501	524	516	491	486	529	909	967	556	518	539
Noi	Population esti- mated to middle of each year.	a.	19,871	19,866	19,862	19,857	19,853	19,848	19,844	19,839	19,835	19,830	19,850	19,826
	Year.		1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	Averages of Years, 1995—1904.	1905

Nore.—Deaths of residents occurring in public institutions beyond the district are included in Sub-columns c of this rable, and those of non-residents registered in public institutions in the district excluded. (See note on Table I. as to meaning of terms "resident" and "non-resident."

TABLE III.

Causes of, and Ages at, Death during Year 1905.

	De	eaths Distr	in or rict at	belon subj	ging oined	to wh	iole s.		belon	ns in o ging t ies (at ges).	0	n Public District
Causes of Death.	All ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25	25 and under 65	65 & upwards	Northern.	Southern.	Gorleston and Southtown.	Runham Vauxhall,	Total Deaths in Public Institutions in District
Small Pox Measles Scarlet Fever Whooping-cough -	- 1 4	_ _ _ 3	_ _ 1			-		 1	_ _ _ 1	_ _ _ 2		<u>-</u>
Diphtheria & Membranous Croup - Croup	2 1	_	_	2	_		_	1	1 1 1		1 _	1
Fever Typhus - Enteric - Other continued Epidemic Influenza	6 - 5				3 - 1	2 1	1 - 3	3 - 3	2 - 1	$\frac{-1}{1}$	1111	$\frac{-}{2}$
Cholera Plague Diarrhea Enteritis	- 33 7	- 30 5	_ 2 1		1111		_ 1 1		- 8 1	- 8 3		
Puerperal Fever - Erysipelas Other Septic Diseases Phthisis (Pulmonary	3 25		- - 4	<u>-</u>	1 _ _	7	13	- 12	- 8	1 - 5		9
Tuberculosis) - Other Tubercular Diseases	41 31	1	1	3	10	26	-	15	15	11	-	5
Cancer, Malignant Disease	60	13	7	6	1	34	1 26	18 30	8	5 15	1	5 15
Pneumonia Pleurisy Other Diseases of	42 22 2	12 2 —	3 5	_ 1 _		9 9 2	18 5 —	22 12 —	9 3 -	11 5 2	_ 2 _	3 5 1
Respiratory Organs Alcoholism Cirrhosis of Liver	37 14	12	9	_	1	8 13	7	19 6	11 6	6	1	7
Venereal Diseases - Premature Birth - Diseases and Acci- dents of Parturi-	4 37	3 37	1	_	_		-	2 18	2 7	2 - 10		2 2 -
tion Heart Diseases - Accidents Suicides Diseases of Blood-	8 103 24 4	- 4	1 2 —	- 5 1 -	1 1 —	7 39 7 3	57 10 1	1 48 9 2	4 27 11 1	3 28 3 1		- 34 11 -
vessels Congenital Defects	72		_	1	2	18	51	28	29	15	_	9
and Debility - All other causes -	24 190	24 39	4	6	3	43	95	17 92	5 52	1 45	1 1	1 49
All causes -	802	185	43	26	24	233	291	379	229	184	10	165

THE ANALYSIS OF THE PRINCIPAL CAUSES OF DEATH.

(As tabulated in Table III.)

THE ZYMOTIC DISEASES.

The Zymotic Death-rate amounts to 0.88 per thousand of the estimated population. This rate is only one-third of the local average for the last ten years, and compares very favourably with the average for the 76 great towns. (1.88 per thousand).

The following table shows the mortality from the seven diseases from which the Zymotic Death-rate is calculated:—

A.—Zymotic Diseases not notifiable during life.

			Decennial Mean.
1905.	1904.	1903.	1895-1904.
0	12	12	20
4	33	14	17
33	53	29	55
	0 4	0 12 4 33	0 12 12 4 33 14

B.—Zymotic Diseases. (All known cases notified).

Small-pox	0	0	0	0.1
Scarlet Fever	I	3	27	7
Diphtheria	2	24	44	32
Typhoid & Contin	nued			
Fever	6	4	6	16

MEASLES.

There were no deaths from this disease in 1905. It is most unusual for an entire year to pass without a single death from this scourge of infancy in a town of the size of Great Yarmouth, and we cannot expect this state of things to continue.

WHOOPING COUGH.

The number of deaths from this disease were less than a quarter of the local average.

DIARRHŒA.

The deaths certified as due to Diarrhœa, Zymotic Enteritis and other diarrhœal diseases amounted to 33, a reduction of 22 on the decennial mean. In addition, 7 deaths were ascribed to Enteritis, not definitely Zymotic, and the two groups of diseases will be classed together in order to consider their principal causes.

The total number of persons who died of Diarrhæa during the year was 33, 30 being under one year of age, 2 being aged between one year and five, and one was over 65 years of age.

In thirty-one cases enquiries were made as to the surroundings and circumstances of the Infants who died from Diarrhœa or Enteritis with the following results:—

Age at death.—Under two months 5.

Two to three months 4, including 1 visitor.

Three to six months 13 do.

Six to nine months 4 do.

Nine to twelve months 4 do.

Over twelve months 1.

Method of	Feeding.	Under 6	months.	Over 6	months.

Breast Fed	3	I
Breast and other food	2	_
Cows' milk	5	6
Condensed milk	7	3
Patent foods	I	2
Not known	_	I
	_	_
Total	18	13
		0

Gross Sanitary Defects were found in five houses.

Position of Food Store.—With external ventilation 6, in living room or ventilated into living room 19, under staircase 5, unknown 1.

Water supply.—With two exceptions from the Waterworks.

Employment of Mothers.—Although a considerable number of the mothers of these children took in lodgers or otherwise added to their ordinary housework, only four mothers had to leave their children while they went out to work.

I have to thank some of the Corporation Nurses for making enquiries during the hotter months of the year as to methods of infant feeding generally adopted in the Borough.

Owing to the large number of removals it was not possible to get anything like a complete return on this subject, but the following figures, which refer to children under six months alone, are accurate as far as they go.

	Row area.	Yarmouth outside Rows.	Cobholm and Southtown.	Total.	Percentage.
Breast Milk only	97	134	55	286	63
Breast Milk and other food	5	20	I	26	6
Cows' Milk	34	50	5	89	19
Condensed Milk	8	15	15	38	8
Patent Foods and mixed diet	6	9	_	15	4
	_	_	_	_	_
Totals	150	228	76	454	100
	-	-			_

Comparing this table with that referring to the feeding of the infants who died from diarrhœal diseases, it will be seen that although 63% of the average infants under six months were fed on breast milk, only 17% of the children dying from diarrhœal diseases were breast fed. The odds in favour of the breast fed children being more than eight to one, *i.e.* as regards death from diarrhœa.

DEATHS FROM THE NOTIFIABLE ZYMOTIC DISEASES.

The number of deaths from this group of diseases was reduced by seventy per cent., the principal reduction being in the fatality from Diphtheria. For the sixth year in succession, no resident in the Borough died from Smallpox. The detailed statistics of the notifiable diseases are more fully considered on pages 21 to 24.

TUBERCULOUS DISEASES.

Tuberculous Diseases caused 72 deaths during the year, of these 41 were certified to be due to Tuberculosis of the Lungs.

In order to emphasise the importance of the age-distribution of the deaths from Tuberculosis of the Lungs, a table has been prepared, as in the report for 1904, by means of which a comparison may be made between the percentage of deaths due to Phthisis at different age periods and the percentage of the total deaths due to the notifiable diseases, which include Scarlet Fever, Diphtheria, Typhoid Fever, and Small-pox.

1	Under year.	1-5.	5-15.	15-25.	25-65.	65 & over.	
Deaths from Phthisis as a percentage of the total mortality from all causes at the same ages.	0 5	2.3	11.5	41.6	11.1	0.0	5.1
Deaths from the notifiable diseases as a similar percentage.	1.5	4.6	7.7	12.5	0.8	0.3	1.1

The majority of the deaths from Consumption occurred in private houses, only two residents dying in Public Institutions. Disinfection was suggested in all cases where death occurred in a private dwelling house, and the bedding and clothing were disinfected in 28 cases. As the disease is not yet notifiable before death, no other preventive measures could be put in force.

RESPIRATORY DISEASES.

The number of deaths from Respiratory Diseases (excluding Phthisis) was a little below the average for the past ten years.

OTHER IMPORTANT CAUSES OF DEATH.

Cancer caused 60 deaths, Heart Disease caused 103, Accidents caused 24, and 14 were certified to be due to Alcoholism or Cirrhosis of the Liver.

TABLE IV.

CASES OF INFECTIOUS DISEASES NOTIFIED DURING THE YEAR 1905.

ch-se-	Ila	Runha Vauxh		00
Cases to H m ea lity.		Gorleston		36
No. of Cases Removed to Ho pital from each Locality.		Souther	1 52 52	58
Ren pit	.4:	Northe	1 0 1 1 1 1 1 1 1 1	48
-iti-	TIP	Runha	11-11-21-111	4
es No each lity.	and um.	Gorleston	1111388615111	67
Total Cases Noti- fied in each Locality.	*4:	Southe	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	69
Tota	,3: (3:	Northe	1 10 413 11 1	84
ŧį.		65 and upwards.		70
istric	gģ.	25 to 65.	1 1 2 1 9 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	53
Cases notified in whole District.	At Ages—Years	.62 of 61	1 60 50 72 21	31
in w	Ages	.61 of 6	1 22 23 1	102
tified	At.	I to 5.		322
ses no		Under 1.	11111-1111	П
Ca	Ses.	A He AA	1 8 8 1 8 8	224
	se.		:::g::::::	:
	Notifiable Disease.		Small-pox Cholera Diphtheria Membranous Cro Erysipelas Scarlet Fever Typhus Fever Enteric Fever Continued Fever Continued Fever Plague	Totals

THE NOTIFIABLE INFECTIOUS DISEASES.

The table on page 20 presents an analysis of all the notifications received during 1905, according to ages and localities, with the numbers removed to the Isolation Hospital.

In the table given below a comparison is made between the number of notifications in 1905 and in previous years, showing a progressive diminution.

D	ecennial mean.			
	(1895 - 1904).	1903.	1904.	1905.
Smallpox	1.2	_	_	_
Scarlet Fever	178.7	412	140	114
Diphtheria	177.2	318	162	33
Typhoid Fever	124.7	28	64	38
Erysipelas	40.9	92	52	36
Puerperal Feve	er 2.7	4	I	3
				_
Totals	525.4	854	419	224
		-		-

SCARLET FEVER.

A further reduction occurred in the number of notifications of this disease. Only one child died as compared with 3 deaths in 1904 and 27 in 1903. Nearly a third of the total number of cases were due to children who contracted the disease during the holidays in such a mild form that the existence of the disease was not noticed until they returned to school and infected other children. During the course of my routine inspection of scholars no fewer than seven children were found to be "peeling" and were isolated. In one case the school was closed and the building disinfected throughout.

The monthly incidence of the disease is shown in the following table:—

following ta	ble :—			Gorleston		No. of
Month,	Total Number,	Northern District.	Southern District.	and	Runham Vauxhall,	Removals to Hospital
January	15	2	4	9	_	7
February	9	4	I	4	_	8
March	17	3	6	8	_	14
April	9	2	5	2	_	6
May	2	I	_	I	_	2
June	3	I	I	I	_	I
July	I	I	_	- 4	_	I
August	4	2	I	I		2
September	19	12	3	4	_	15
October	17	7	4	4	2	16
November	9	I	5	3	_	4
December	9	5	3	I	-	5
	_	_	_	_	_	_
Totals	114	41	33	38	2	81
		_	_	_	_	_

Three visitors who were incubating the disease before arrival in the Borough, and one case from a fishing boat in the Port, are included in the total, but none of these four cases appeared to have caused the spread of infection, although there can be no doubt that infection was introduced from without during August or the beginning of September. An epidemic of Scarlet Fever occurred in a neighbouring rural district during May and June, but there is no reason to believe that any infection was derived from this source, as the Borough was practically free from known cases of the disease during the four summer months.

DIPHTHERIA AND MEMBRANOUS CROUP.

The progressive diminution in the number of cases and deaths from these diseases is very satisfactory. For some years the local prevalence of Diphtheria was excessive, but since the early months of 1904 there has been a continuous low rate of notifications, and during 1905 the monthly average has been less than three.

More than half the cases were due to infection introduced from other places, but this cannot be avoided in a town with a large population of visitors.

The incidence of the disease is shown in the following

table:—						
Month.	Total for Month in 1905.	Northern District.	Southern District.	Gorleston and Southtown,	Runham Vauxhall.	No, of Removals to Hospital,
January	_	_	_	_	_	_
February	3	I	_	2	_	I
March	5	2	I	2	_	4
April	_	_	_		-	_
May	I	I	_	_	_	I
June	_	_	_	_	_	_
July	_	_	_	_	_	_
August	_	_		_	_	_
September	2	2		_	_	2
October	6	2	4	_		_
November	II	5	_	5	I	9
December	5	4	_	I	_	I
	_	_	_		_	_
Totals	33	17	5	10	I	18
	_		_	_	_	_

Typhoid or Enteric Fever.

Thirty-eight cases of this disease were notified in 1905, a considerable reduction on the numbers for previous years, with the single exception of the year 1903.

Nine of these patients were incubating the disease on their arrival in the town, leaving 29 local cases for consideration. In eighteen cases no definite source of infection could be traced; in two cases there was a history of attendance on previous cases, and in the remaining local cases (nine in all) there was a definite history of the consumption of mussels at dates corresponding with the invasion of the disease, and there can be no doubt as to the source of infection. In my report for 1904 I dealt with the best method of endeavouring to prevent this unnecessary waste of health and life, and I would refer to pp. 25-27 of that report.

The monthly incidence of the disease is shown in the following table:—

Tollowing tab				Gorleston		No. of
Month,	Total Number.	Northern District.	Southern District.	and Southtown.	Runham Vauxhall.	Removals, to Hospital
January	I	-	I	_	_	_
February	4	I	I	2	_	_
March	6	I	I	3	I	_
April	6	_	4	2	_	3
May	I	_	_	I	_	I
June	-	_	_	_	_	_
July	I	I	_	_	_	_
August	5	4	I	_	_	3
September	2	_	2	_	_	I
October	*7	_	*3	*4	_	3
November	3	2	I	_	_	I
December	2	I	_	I	_	2
	_	_	_	_	_	_
Totals	*38	IO	*14	*13	I	14
	-		_	_	-	_

*Included in the total are four patients who contracted the disease in a Scotch port. The circumstances of these cases are considered on pp. 44 of the Report of the Port Sanitary work.

PUERPERAL FEVER.

Three cases of this disease were notified. All occurred in the first quarter of the year.

ERYSIPELAS.

Thirty-six cases of Erysipelas were notified, a little below the average number.

TABLE V.

Infantile Mortality during the year 1905.

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

All Causes. Certified		Tause of Death.	Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-2 Months	2-3 Months.	3-4 Months.	4-5 Months.	5-6 Months.	6-7 Months.	7-8 Months.	8-9 Months.	9-10 Months.	10-11 Months.	11-12 Months.	Total Deaths under	One Year.
Common Infectious Diseases			 34	7	16	10	67	21	27	15	12	6	10	6	*5	4	5	7	183	5
34 7 16 10 67 21 27 15 12 6 10 6 5 4 5 7 185	Diseases Diarrhœal Diseases Wasting Diseases. Tubercu- lous	Chicken-pox Measles Scarlet Fever Diphtheria: Croup Whooping Cough Diarrhea, all forms Enteritis (not tuberculous) Gastritis, Gastro- intestinal Catarrl Premature Birth Congenital Defects Injury at Birth Want of Breast-milk Atrophy, Debility Marasmu (Tuberculous Meningitis Tuberculous Peritonitis: Tabes Mesenterics Other Tuberculous Disease Erysipelas Syphilis Rickets Meningitis (not Tuberculous Convulsions Bronchitis Other Respiratory Diseas Pneumonia Suffocation, overlaying	 2 2 - 1 - 5	3	4	2 3 3 - 1	1		1 3 3 4 1 1 1 1 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 - 1 - 1	1 1 1 1 1 1	2 2 2	1 2		4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 1 - 2 1 - 2	11 1 22 2	30 30 20 31 32 32 32 32 32 32 32 32 32 32 32 32 32	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

District of Great Yarmouth. Population estimated to middle of 1905, 52,353.

Births in the year | Legitimate, 1342. Deaths from all Causes at all Ages, 802.

THE MIDWIVES' ACT, 1902.

This Act came into full operation on April 1st, 1905, with the exception of the very important section which will entirely prohibit the practice of midwifery by unregistered persons; this section does not come into operation until 1910.

During 1905 there were only three midwives registered in the borough, all being registered as being in practice previous to the passing of the Act. They attended nearly 150 confinements during the last nine months of the year.

A considerable number of women, who are quite untrained, attend cases of midwifery in the borough, but there is no means of supervising their proceedings except on occasions by means of a coroner's inquest. This unsatisfactory state of affairs will cease in 1910.

HOUSING OF THE WORKING CLASSES ACTS.

Nine dwellings were reported under these Acts during 1905. Two for general dilapidation, one for absence of sanitary conveniences or water supply, and six for extreme dampness. The dilapidated houses were permanently closed by order of the magistrates; the house without proper water supply was transformed into a warehouse; and four of the six damp houses were rendered fit for habitation by the insertion of damp courses and the ventilation of the underfloor spaces.

THE ISOLATION HOSPITALS.

The Smallpox Hospital was unoccupied during the year, as no case of Small pox was notified for the third year in succession.

The Estcourt Road Hospital for the Infectious Diseases, other than Smallpox, received 62 % of the total

number of cases of Scarlet Fever, Diphtheria and Typhoid Fever which were notified during the year. The details are shown in the following tables.

Admissions, Deaths and Discharges at the Estcourt Road Hospital.

Remaining on	Scarlet Fever,	Enteric Fever.	Diphtheria	Diphtheria "Contacts."	Total.
January 1st, 1905	14	6	_	_	20
Admitted during 1905	83	16	18	3	120
Died in Hospital	I	T	I	_	3
Discharged	86	17	II	3	117
Remaining on					
December 31st, 1905	10	4	6	_	20

ADMISSIONS INTO THE ESTCOURT ROAD HOSPITAL IN EACH MONTH OF 1905.

		Scarlet Fever.	Enteric Fever.	Diphtheria.	Diphtheria "Contacts"	Total.
January		8	_		_	8
February		8	_	I	_	9
March		15	_	4	3	22
April		6	3	_	_	9
May		I	I	1	_	3
June		2	_		_	2
July		*1	_	_	_	*1
August		2	3	I	_	6
September		15	I	I	_	17
October		16	5	_	_	21
November		4	I	9	_	14
December		5	2	I	_	8
	m , 1	0-		-0	_	
	Totals	83	16	18	3	120

^{*}Excluding a patient who was kept under observation for suspected Scarlet Fever.

The average period of detention in Hospital for each case completed during the year 1905 was:—

For Scarlet Fever		56.9 days.
For Diphtheria		33.7 days.
For Diphtheria "Contacts"	"	22.7 days.
For Typhoid Fever		54.8 days.

The number of patients removed to the Hospital in proportion to the number of notified cases of the different infectious diseases was:—

For Scarlet Fever - 81 out of 114, or a percentage of 71.0 For Diphtheria - 18 out of 33, or a percentage of 54.5 (This excludes three "contacts" isolated in Hospital). For Typhoid Fever - 16 out of 38, or a percentage of 42.1

DISINFECTION.

The following articles were passed through the steam disinfector at the Hospital:—

Beds	146	Counterpanes	193
Pillows	395	Mattresses	79
Bolsters	IOI	Clothing	1160
Slips	352	Carpets	108
Sheets	235	Rugs	40
Hangings	8	Cushions	6
Blankets	324	Various	207
		Total	3354

203 Rooms were disinfected with Formalin vapour.

BACTERIOLOGICAL WORK.

The Bacteriological Laboratory at the Isolation Hospital was in frequent use, more especially in connection with cases of Diphtheria. No patients were discharged from the Isolation Hospital unless they had been examined three times for the presence of Diphtheria Bacilli with negative results.

In addition, a large number of "swabs" were examined for patients, who were not in the Hospital, either for the purpose of settling doubtful diagnosis, or in order to ascertain when the patients were fit for discharge from isolation in their own homes.

Three examinations for Diphtheria Bacilli were made in connection with patients admitted into the Isolation Hospital for Scarlet Fever, but presenting additional symptoms suggestive of Diphtheria.

The results of investigations for Diphtheria Bacilli in the Laboratory were as follows:—

	In cases of Diphtheria,	In "contacts" of Diphtheria Patients.		Totals.
Bacilli found	58	8	_	66
Bacilli not found	102	26	3	131
	-	_	_	-
Totals	160	34	3	197
				-

It should be noted that the figures do not refer to separate patients, but to the number of separate examinations, some of the patients being examined many times before they were found fit for discharge from isolation.

Sanitary Administration in 1905.

The Report of the Sanitary Inspector (Mr. Hassall) shows the number of inspections made by himself and the District Inspectors. During the year one of the District Inspectors unfortunately contracted Typhoid Fever in the course of his work, so that the department was short handed for some weeks, but the number of inspections is above the average.

BAKEHOUSES.

There are 86 bakehouses in the Borough, but none come under the heading of "underground bakehouses." The majority are situated in positions which allow free access of light and air.

SLAUGHTER-HOUSES.

Twenty-four recognised slaughter-houses are in use. With six exceptions all are situated to the west of the Market Place, just outside the old town wall. As the town has extended outside the walls, the present position of the slaughter-houses is most unsuitable and the question of the provision of a public abattoir has been under consideration since 1885. In 1900 plans were submitted to the Local Government Board and permission obtained for the construction of an abattoir on the Caister Road, but the matter is at present in abeyance.

DAIRIES, MILK SHOPS, & COWSHEDS.

There are 94 registered milk shops, the premises varying from shops specially constructed and furnished for the business, to the most unsuitable premises, such as small general shops where the milk is constantly exposed to the effluvia and dust arising from the other goods.

Most of the milk sold in the Borough is obtained from other districts, more especially in the summer, but there were 12 cowsheds on the register in 1905. Overcrowding was discovered and remedied in four cowsheds, The premises in two cases were very unsuitable and were closed.

ADMINISTRATION OF THE FOOD & DRUGS ACTS.

One hundred samples were taken during 1905, and submitted to the Public Analyst for examination. Of this number, 76 were samples of milk, 13 were samples of butter, and 11 were samples of various food stuffs and condiments.

Twenty of the samples of milk, more than a quarter of the total number, were certified to be other than pure milk; of these 15 were impoverished by the abstraction of cream or by the addition of water, and the remaining 5 were adulterated by the addition of antiseptics, such as Boric Acid or Formalin.

Letters of caution were sent to the vendors of samples adulterated by Boric Acid, and in the cases where the abstraction of cream, or the addition of water did not appear to indicate very gross adulteration. The vendor of a sample of milk containing Formalin was fined £2 and £1 15s. 6d. costs.

Eleven vendors of impoverished milk were prosecuted, with the result that 10 were convicted and fined amounts varying from £5 to 10s., with costs in addition, averaging £1 16s. 6d. a case.

The amount of adulteration which goes on in the Borough is still excessive, but the tendency to increase the fines in cases where the offence is proved, will make the practice less profitable than it is at the present time.

The following table shows the number of samples of articles purchased and submitted for examination, with the results of analysis:—

Article.	No. of Samples taken.		Result of Analysis.		
			Genuine.	Adulterated.	
Milk		76	56	20	
Butter		13	12	I	
Malt Vineg	ar	2	2	0	
Demarara S	Sugar	2	2	0	
Ice Cream		2	2	0	
Bread		I	I	0	
Flour		I	I	0	
Coffee		I	1	0	
Lard		. 1	I	0	
Cayenne Pe	epper	I	I	0	
T	`otals	100	 79	21	

The details of the adulteration found in the samples of milk, with the results of magisterial or other proceedings, are as follows:—

1.	23 per cent. of added water	Fined £1 and £1 15s. 6d. costs.
2.	7 per cent. entirely devoid of fat	Cautioned by letter from the Town Clerk.
3.	7 per cent. entirely devoid of fat	Cautioned by letter from the Town Clerk.
4.	15 per cent, entirely devoid of fat	Case dismissed.
5.	Contained 5.4 grains per pint of Borie Acid	Cautioned by letter from the Town Clerk.
6.	Contained 5.5 grains per pint of Borie Acid	Cautioned by letter from the Town Clerk.
7.	.004 per cent of Formaldehyde	Case withdrawn.
8.	10.25 per cent. of added water	Fined £2 and £2 2s. 6d. costs.
9.	4 per cent. entirely devoid of fat	Cautioned by letter from the Town Clerk.
10.	26 per cent. of added water	Fined £5 and £1 16s. 6d. costs,
11.	5½ per cent, of added water	Fined 10s. and £1 15s, 6d. costs

12.	Contained 8 grains per pint of Boric Acid	Cautioned by letter from the Town Clerk.
13.	20 per cent. of added water	Fined £1 and £1 18s. 6d. costs.
14.	11 per cent. of added water	Fined 10s, and £1 15s, 6d, costs
15.	.006 per cent of Formaldehyde	Fined £2 and £1 15s. 6d. costs.
16.	$1\frac{1}{2}$ per cent. of added water	Cautioned by letter from the Town Clerk.
17.	39 per cent. of fat extracted and 12 per cent. of water added	Fined £1 and £1 15s. 6d. costs.
18.	24.3 per cent. of added water	Fined £1 and £1 15s. 6d. costs.
19.	70 per cent. of fat extracted	Fined £1 and £1 15s. 6d. costs.
20.	63 per cent. of fat extracted	Fined £1 and £1 15s. 6d, costs.

Only one other article was found to be adulterated, a sample of Butter, which contained 15 per cent. of foreign fat; no action was taken in this case.

UNSOUND OR UNWHOLESOME FOOD SEIZED IN 1905.

20 lbs. of Strawberries; 25 lbs. of Plums and three bottles of Mushroom Ketchup, all exposed for sale in the Market Place, were seized and condemned.

The Fish Inspector seized over seven tons of Fish at the Wharf, during 1905. The fish were destroyed after being formally surrendered by the owners. The particulars of the seizures are as follows:—

Date.		Description.	Estimat Tons	ed we	eight. s. qrs.
Mar.	17	16 baskets of Norway herrings		8	0
,,	23	I bag of winkles		I	0
Jun.	12	5 trunks of Mackerel		2	2
Oct.	26	5 swills of Herrings		10	0
,,	26	17 ditto	 I	14	0
,,	29	4 ditto		8	0
Nov.	IO	24 ditto	 2	8	0
,,	II	9 ditto		18	0
Dec.	8	8 ditto		16	0
		Total	 7	5	2

COMMON LODGING HOUSES.

There are seven common lodging houses on the register. Most of these houses are merely ordinary houses in the Rows, which cannot be regarded as suitable for their present purposes. Two hundred and thirty visits (106 at night) were paid to these houses, and the premises and bedding are kept fairly clean, but there appears to be no public demand for the superior accommodation which can be found in the average large town.

SYSTEMATIC INSPECTION OF THE BOROUGH.

In addition to the premises inspected on account of special complaints by householders and others, 2014 houses were inspected in the course of the systematic house-to-house visitation. Up to the last few years the systematic visitation was principally confined to the Rows and the older parts of the Borough, but house-to-house inspections of the streets outside the old walls have revealed many examples of inefficient sanitary arrangements in comparatively modern houses. This is most important work, as it results in the discovery of sanitary defects which would otherwise escape notice until definite sickness or nuisance has attracted attention to the defects.

THE FLOODING CAUSED BY THE HIGH TIDE OF JANUARY 7th, 1905.

A spring tide, exceptional both in its height and duration* occurred on January 7th, 1905, which resulted in the flooding of 518 houses in the Borough; of these,

^{*}This tide may not be the highest on record, as far as the measurement at the harbour's mouth may be taken as a guide, it only registered 12 ft. 3 in., while the highest noted tide is 13 ft. 1 in., but that was of a short duration. That of the 7th held up for a longer period than any tide in my experience, the water pouring into the harbour without cessation for about 20 hours, filling all Breydon and all the Bure to a point higher than any which it had previously reached, the height at the Bridge being 9 ft. $10\frac{1}{2}$ in., and above this point the water was higher by some three or four inches than it has ever been.—Borough Surveyor's Report, Jan. 16th, 1905.

333 houses were situated in Southtown and Cobholm, 65 in the Northern District, 67 in the Southern District, and 53 in Gorleston.

All these houses were inspected and 192 preliminary notices were served on the respective owners, requesting them to remove the flooring, dry the underfloor spaces after the necessary cleansing, and concrete the surface of the soil, if this had not been done on a previous occasion.

The terms of the notices were fully carried out in 245 houses, the surface of the concrete being laid with a fall to catchpits with trap-doors in the flooring over them. This was done so that, in the unlikely event of future flooding, the occupiers would be able to cleanse the underfloor spaces, and empty the catchpits through the trap-doors, without being under the necessity of removing the whole of the flooring.

Of the remaining houses, 15 have been demolished, and over 150 have been restored to the condition in which they were previous to the flooding.

No exceptional prevalence of disease or sickness was noticed in the houses which had been flooded, in fact the general mortality has been less than the average.

A Special Committee was appointed to inspect the quays and banks, with a view to preventing future flooding with a tide of 12 ft. 6 ins. above the gauge zero. This is a most exceptional occurrence, as the Haven gauge readings show that the tide has not risen 11 ft. above zero more than five times during the last twenty years. The recent tide of 11 ft. 3 in. on March 12th, 1906, caused no damage by flooding with the exception of a few buildings on the edge of the river.

The most important provision against the flooding of dwelling houses is contained in the Corporation Act of 1904. In Clause 54 of that Act, "the Corporation may by order prohibit the construction of any cellar, or ground floor, in any dwelling house, or other building, in which it shall be proposed to place the floor of such cellar or ground floor at a lower level than eight feet above ordnance datum." If this regulation had been in force during the development of Southtown and Cobholm, the houses in these districts would not have been flooded even by the record tide of 1905.

Report on Sanitary Work.

TO THE MEDICAL OFFICER OF HEALTH.

SIR,

I have the honour to submit to you my Eleventh Annual Report of the work carried out in the above department during the year 1905. Particulars as to the nature and number of nuisances reported to the Health Committee, and dealt with by Statutory notices, also works of a similar nature, but dealt with by Preliminary notices.

I am, Sir,
Yours faithfully,
SAMUEL HASSALL.

REPORT FOR 1905.

TABLE A.

	TABLE A.		
			Number of Visits.
Special inspections	and investigations	s of	
complaints			2128
House to house insp	pections		2014
Visits in connection	with infectious disc	ease	158
Re-inspections to as	scertain the progres	ss of	
Statutory and I	Preliminary notices		5092
Bakehouses			365
Common lodging-h	ouses (day-time)		124
,, ,,	,, (night-time)		106
Slaughter-houses an			260
Offensive trades			144
Ice cream vendors			136
Marine stores			64
Factories and work	shops		350
Restaurants		***	36
Tot	al		10,977
			The second secon

		Number.
	Samples of well-water collected and for-	27
	warded to Cambridge for analysis	21
	Samples of Food, etc., purchased under the Sale of Food and Drugs Acts, and	
	submitted to the Public Analyst at	
	Norwich	100
	Rooms disinfected after infectious disease	203
	School notices sent in connection with	
	infectious disease	214
	Houses, schools, and workshops at which	
	the smoke, water, or chemical tests have been applied to the drains	239
	Prosecutions under the Sale of Food and	439
	Drugs Acts	12
	Smoke observations taken	8
	TABLE B.	
	During the year the following works	have been
2	arried out under Statutory and Preliminary r	
		Number.
	Privies replaced with water closets	254
	New drains laid	112
	Drains cleared and repaired	214
	Pan-container closets abolished	27
	Pedestal closets provided	83
	Earthenware gully-traps fixed	624
	Flushing cisterns fixed to closets	120
	Filthy houses cleansed and limewashed	51
	Offensive accumulations removed	57
	Nuisances from overcrowding abated	7
	Animals and poultry removed	33
	Cesspools abolished	2
	Water closets repaired	80
	New sinks erected	145
	Drains intercepted from sewers	126
	Rainwater cisterns abolished	89
	Sink waste pipes disconnected	86
	Yards and passages concreted	312

Drains ventilated	164
Spouting and fall pipes provide	d 166
Cowsheds and slaughter-houses	
Bakehouses limewashed	56
Houses provided with Compan	
Polluted wells closed	32
Houses made fit for human hab	
Rain-water pipes disconnected f	rom drains 94
Dilapidations made good	76
New urinals provided	24
Under floor spaces ventilated	361
Dust bins provided	67
Dykes cleansed	4
Damp courses inserted in walls	6
Nuisance from overcrowding of	cowsheds
abated	4
Flooding notices (to cleanse, con	
ventilate the under floor spa	
Miscellaneous items	66
TABLE C.	
Showing the localities of sewe	r gas escapes discovered
y drain testing:—	
Into Breakfast rooms, etc	3
" Kitchens and sculleries	9
" Basement kitchens and cell	
" Lobbies and other parts of	
" Internal water-closets …	2
" External water-closets …	4
" Yards and passages …	5
From defective w.c. soil pipes	5
" defective ventilating shaft	
" heads and joints of rain w	
" around yard gullies …	5
" defective drain connection	
	100
	104

DRAIN TESTING.

During the year 275 complaints have been received from householders and others, respecting the condition of drains and sanitary fittings of houses and other premises. An examination, and if necessary a smoke test was made in every instance, and this resulted in the detection of 83 defective drains, etc., The necessary notices were served in the usual course, and in every instance the terms of the notices were complied with and the work executed. The drains have also been tested in connection with all houses where cases of Typhoid and Diphtheria have occurred.

FACTORY AND WORKSHOPS INSPECTION.

Premises.	Inspections.	Written Notices.	Prosecu-
Factories, including factory			
laundries	. 46	9	_
Workshops, including	g		
workshop laundries and	1		
fish curers	204	36	_
Work-places	. 64	_	_
Home-workers' premises	36	12	_
		_	
Total	350	57	Nil.
		_	

DEFECTS FOUND.

NUMBER OF DEFECTS.

Particulars.		Found.	Remedied.	Number of Prosecutions
Want of cleanliness		10	9	_
Want of ventilation		4	4	_
Want of drainage of flo	ors	5	5	_
Other nuisances	***	3	3	_

DEFECTS FOUND—continued.

NUMBER OF DEFECTS.

		Found.	Remedied.	Number of Prosecutions.
0 1	Insufficient	22	20	_
Sanitary Accommodation	Defective	16	16	_
Accommodation	Insufficient Defective Not separate	12	12	_
	`	_	_	
Т	otal	72	69	Nil.
		_		
	Home Wo	RK:—		
Lists received	6	Out wo	rkers	57

NUMBER OF WORKSHOPS, &C., ON THE REGISTER AT THE END OF THE YEAR, 1905.

Description			Number.	
Bakehouses		***	86	
Baking-powder	makers		2	
Bedding manufa	acturers		2	
Boat builders			5	
Bottling store			I	
Blacksmiths			12	
Builders			2	
Basket makers			4	
Bone boilers			I	
Carpenters			II	
Confectioners			7	
Coopers			3	
Carriage builder	S		2	
Cabinet makers			5	
Cycle engineers			5	
Cork cutters			2	
Dressmakers			42	
Fish curers			31	
Foundries			2	

			Number.
Hairdressers			2
Lock and tinsn	niths		8
Laundries			I
Milliners			13
Marine Stores			5
Net makers			24
Outfitters			I
Oilskin manufa	cturers		4
Picture framers			I
Plumbers and 1	painters		4
Ropemakers			I
Scale makers			I
Sailmakers	***		2
Tailors			26
Tripe dressers			I
Whitesmiths			2
Wood turners			I
Wheelwrights			3
Shoemakers			53
	Total	***	378

Port Sanitary Work.

The Sanitary Administration of the Port of Great Yarmouth is carried out by the Health Committee of the Corporation, with the assistance of the Medical Officer of Health of the Borough, and a special Sanitary Inspector who devotes the greater part of his time to this work, although he is also Inspector of Fish at the Fish-wharf and Inspector under the Canal Boats Acts.

The Collector of Customs kindly supplies the following information as to the traffic of the Port:—

No. of vessels arriving in the Port. Gross Tomage.		No. of Crews*							
Fori Sail. S	Steam.	Coast Sail. S		For Sail.	Steam.	Coas	rwise. Steam.	Foreign.	British.
249	162	454	871	31,742	50,154	38,139	112,708	2,853	6,485

Estimates only*

The majority of the vessels arriving from foreign were laden with timber from the Baltic, or were comparatively small steamers from Hamburg and the adjacent German Ports, but there was also a certain amount of traffic in salt and phosphates from Sicily and Algeria, with an occasional arrival from South America and other distant ports.

Very few of the vessels entering the Port carry a surgeon, but the Custom Authorities, Coastguards and Pilots are always ready to render assistance in giving information as to vessels with any sickness on board, and as all boats from foreign have to pick up a pilot before entering the Haven, any suspected vessels are detained for inspection outside the Haven in the Roads.

Deaths in the Port in 1905. Of these, ten were nonPort. residents, one was an unknown man and one was a resident in the Borough, who died on a lightship in the North Sea; the deaths of all residents, with the death on the lightship and also the unknown man, are included in the statistics for the Borough.

An inquest was held on every death registered in the Port during 1905, with one exception, the cause of the deaths being returned as due to drowning in 14 cases (three suicidal), accidental falls in two cases and various forms of heart disease in four cases.

During the year, eleven vessels were sickness in specially visited by the Medical Officer on account of sickness on board. No cases of Infectious disease were discovered on board boats from "foreign"

Four Scotch fishermen, suffering from Typhoid Fever, were removed to hospital from fishing boats in the Haven. No further cases resulted, and on enquiry it was found that these men had contracted the disease before entering the Haven, as a result of drinking infected water in a Scotch port. One fisherman, also a Scotchman, was found to be suffering from Scarlet Fever, probably contracted in the Borough. He was removed to the hospital and no further cases resulted.

During the month of May, a Scotch port was regarded as infected by Plague, but only one ship arrived from that port and on inspection the crew were found all well and no dead rats were reported.

A special Sub-Committee was appointed to take immediate action in the event of cholera arising in the Haven and arrangements were made for a mooring station for suspected or infected vessels in the Roads, and for the isolation of any cases of cholera, which might arise; fortunately no boats arrived which could be reasonably regarded as sailing from an infected port.

Inspections made The number of vessels inspected in 1905. upon entering the Port was as follows:

Vessels from Foreign Ports		280
Vessels Coastwise		207
	Total	487

These vessels were of the following Nationalities:-

British		 242
Norwegia	an	 84
Swedish		 53
German		 33
Dutch		 23
Russian		 19
Danish		 17
French		 9
Belgian		 5
Italian		 2

Of the above vessels 312 were steamers, and 175 were sailing vessels.

The sanitary conditions were found satisfactory on board 441 of the above vessels, and the following list shows the nature of defects found on board the remaining 46 vessels:

Dirty forecastles	1. 1	29
Forecastles requiring re-painting	or	
limewashing		3
Sanitary repairs necessary		2
Defects in ventilation		2

Filthy W.C.'s			5
Foul water casks			3
Foul ships' holds			4
Unwholesome beef	(55 pieces	weigh-	
ing about 21/2 cv	wt.		2
	Total		50

These defects necessitated re-inspection in most cases.

BILGE PUMPING FROM FISHING VESSELS.—Two vessels were reported for this offence, and letters of caution were addressed to the offending skippers by the Town Clerk.

Annual Report of the Canal Boats Inspector for the Year, 1905.

During the year, I inspected 51 vessels under this heading, and am pleased to say that in only one instance have I had to report upon a sanitary defect, that being a cabin requiring repainting. I wrote the owner about the matter and learnt that the vessel was shortly undergoing repairs and repainting throughout.

The infringements of the Canal Boats Acts, other than sanitary matters, were as follows:—

Non-registration . . I Masters without certificates I Boats not duly marked . . 5

The total number of vessels now registered under the Canal Boats Acts by this authority is 57; there having been no fresh applications for registration during the year; as I stated in last year's report, many of the vessels are now registered by the Board of Trade.

No sickness has occurred on board any of the canal boats during the year.

In conclusion I desire to repeat that the sanitary condition of our local river craft is well maintained, and is exceedingly creditable to the men working them.

