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BOROUGH OF GILLINGHAM, KENT.

Report of the Medical Officer of Health

GILLINGHAM, KENT. February, 1910.

To His Worship the Mayor, the Aldermen, and Councillors of the Borough of Gillingham.

GENTLEMEN,

I beg to submit for your consideration my Twentieth Annual Report as to the sanitary condition of the Borough of Gillingham, Kent, in accordance with the Public Health Act, and also the various measures adopted for abatement of nuisances, and improving the general surroundings. The Medical Officer of Health is also required to report on the administration of the Factory and Workshops' Act in his district, and in this report are included details of the work done under this Act.

I have to thank the members of the Sanitary Committee and of the Town Council, for their kindness and support throughout the year, and also the members of the staff at the various departments for the assistance I have always had from them.

I shall, first, in speaking of the vital statistics, give the census of the years from 1881, and it was as follows:—

Population	by	census	1881	was	 	20,513
,,		,,	1891		 	27,823
,,		,,	1901		 	42,520

Next year is the time for the census to be again taken, so that I shall be in a position to correct both death returns, also births.

For statistical purposes it is usual to estimate the population for the middle of the year under review. Taking the natural increase only, that is the excess of births over deaths, I find that for the past three years this was 1101, which would make the population 52856. Another method is to obtain the number of inhabited houses, less lock-up shops, sheds, &c., from the rate book, and multiply this by the average number of persons found to be inhabiting each house. This I have done, and find the number of houses inhabited would make the population 53,485, reckoning five per house.

In preparing these various rates for the year, I am taking 53,485 as my estimated population.

The geological formation of this part of the County, which I feel certain is so well known to all who live around here, is made up of soil composed of part loam and part gravel, with a characteristic subsoil of chalk, and several places brick earth.

The total number of deaths is now shown for the past eight years, both for district alone, and also those included in Institutions:—

Total	deaths	registered in	1901				461
,,		,,	1901	(with	Ins	titutions)	510
,,		,,	1902				515
,,		,,	1902	,,		,,	582
,,		,,	1903			****	481
,,		,,	1903	,,		,,	567
,,		,,	1904				538
,,		,,	1904	,,		,,	619
,,		,,	1905				528
,,		,,	1905	,,		, ,	599
,,		,,	1906		***		495
,,		,,	1906	,,		,,	564
,,		,,	1907			***	489
,,		,,	1907	,,		,,	558
,,		,,	1908				521
,,		55	1908	,,		,,	585
,,		,,	1909				452
,,		:,	1909	,,		"	518

Now will follow the ages at which deaths occurred both in the district, including also those who died at the Workhouse Infirmary, and St. Bartholomew's Hospital:—

Deaths under one year of age	 	 100
Deaths over one year of age	 	 418
		518

And the returns for First Quarter	 iarters	were a	 	166
Second Quarter	 		 	129
Third Quarter	 		 	98
Fourth Quarter	 		 	125
The state of the s				
				518

According to these figures the death rates for the various years are calculated, and give as follows:-

		population	1901		 	10.8
,,	,,	,,,		(with	itutions)	
,,	,,	,,	1902	1	 	11.3
,,	,,	,,	1902	,,	,,	13.3
,,	,,	,,	1903		 	10.7
,,	,,	,,	1903	,,	,,	12.6
,,	,,	,,	1904		 	II.I
,,	,,	,,	1904	,,	,,	12.8
,,	,,	,,	1905		 	10.6
,,	,,	,,	1905	,,	,,	12.0
,,	,,	,,	1906		 	9.8
,,	,,	,,	1906	,,	,,	11.2
,,	,,	,,	1907		 	9.8
,,	,,	,,	1907	,,	,,	11.2
,,	,,	,,	1908		 	10.2
,,	,,	,,	1908	,,	,,	11.3
,,	,,	,,	1909		 	8.4
"	,,	,,	1909	,,	,,	9.7

These figures will give an infantile mortality per thousand of population of 1.8, but 68.9 per thousand births registered, which will compare very favourably with other towns, as it varies in some districts from 85 to 103 per thousand births, and others as high as 145 per thousand.

The deaths for the respective months were as follows:—

		District.	In	stitution	s.	Total.
January	 	55		12		67
February	 	37		6		43
March	 	51		5		56
April	 	37		7		44
May	 	33		9		42
June	 	39		4		43
July	 	22		3		25
August	 	32		5		37
September	 	30		6		36
October	 	39		5		44
November	 	31		4		35
December	 	46				46
		452		66		518

The number of deaths from zymotic diseases, the term "zymotic" being used to describe communicable diseases generally, in consequence of the course presenting more or less resemblance to a process of fermentation, is also employed in a limited sense to designate those diseases which occur in epidemics. The term "Specific," while undoubtedly a good one to describe many of these affections which arise from a specific cause, cannot as yet be held to be sufficiently accurate to include the whole class, are as follows:—

Sanrlot Fore						-
Scarlet Feve			155	* * * *	 	3
Enteric or T					 	3
Whooping C	Cough				 	I
Diarrhœa (ir	ncluding	Enteri	itis)		 	7
Measles					 	Nil
Diptheria					 	9
						-
						23

Which will give for the year a zymotic death rate of .4 per thousand of the population.

For the 1	past fiv	re yea	rs it wa	s:		
In year	1904				 2.5 per	thousand.
,,	1905				 1.7	,,
,,	1906				 1.7	,,
	TOOK				0	

BIRTH RATE.

... ...

1908 ...

The number of births reported for the year was 1451, being as follows for each month:—

	 Males.	Females	Medway Union.	Total.
January	 78	 51	 2	131
February	 58	 48	 2	108
March	 56	 52	 2	110
April	 52	 67	 0	119
May	 59	 42	 4	105
June	 53	 68	 2	123
July	 59	 67	 3	129
August	 67	 59	 0	126
September	 61	 41	 2	104
October	 65	 76	 0	141
November	 60	 65	 0	125
December	 62	 65	 3	130
	730	701	20	1451
		-		

These figures will give a birth rate of 27'1 per thousand of the population, as against 26'5 for last year. Following is the number of births and birth rate for preceding years:—

		rece to p				
Tota	l births	registere	d in	1900		 1,137
,,		,,		1901		 1,114
,,		,,		1902		 1,177
,,		,,		1903		 1,390
,,		,,		1904		 1,355
,,		,,		1905		 1,458
,,		,,		1906		 1,352
,,		,,		1907		 1,352
,,		,,		1908		 1,318
And	the birth	rate:		1909		 1,375
Per	1,000 p	opulation	in 1	900		 29.4
,,		,,	1	1901		 26.1
,,		,,	1	1902		 29.2
,,		,,	1	1903		 30.9
,,		,,	1	904		 28.5
,,		,,]	905		 29.3
,,		,,	1	906		 26.9
,,		,,	1	907		 26.6
,,		,,	1	908		 26.5
,,		,,	1	1909		 27.I
72 2						

Notes will now be given in reference to the cases of zymotic diseases that have occured in the district.

SCARLET FEVER.

There were notified to me seventy-nine cases, of this number there were three deaths; forty-eight were admitted to our Infectious Hospital and there treated. One has noticed for several years that this disease is of a much milder type, and this year has proved no exception. School teachers, under the guidance of the School Medical Officer, have been alert to any cases that have been at all suspicious, and thus very largely assisted in preventing spread of the disease.

WHOOPING COUGH.

This does not come under the Infectious Diseases Notification Act; there was but one death from this disease, but several children have been absent from school during the year, and many are treated by their parents without seeking the advice of a medical man.

DIARRHŒA (including Enteritis).

There were but seven deaths from this disease during the year, and six of these under one year; it has been a notable year in this district for such a small number of cases of this disease. I consider atmospheric influence a partial factor, and a wet summer is often

noted as a cause which decreases deaths from diarrhoea, this would point to a practical lesson in the form of thorough flushing of streets, especially the gutters where the natural scavenging of rain falls, and one hopes also the advice given to mothers in reference to feeding of infants is helping.

ENTERIC OR TYPHOID FEVER.

Of this disease twenty-four cases were notified to me, and fifteen of these treated at our Infectious Hospital. There were no deaths of these notified cases, but two cases at Naval Hospital and one at Fort Pitt Military Hospital, Chatham, but coming from the district of Gillingham. Of these cases I have made careful enquiries, and find that in seventeen I have not been able to trace any source, and some not at all clear cases of Typhoid but more a form of Enteritis, which gave no characteristic reaction with Widal's test. Two cases had eaten cockles, one fourteen days before, the other one three weeks before; three other cases had eaten wild oysters picked up on the Upnor shore, one fourteen days before; one mussels three weeks, and ovsters four weeks, and the third one eleven days before being Another case was that of a child, and the source water from a contaminated well in the suburbs; I had the water examined and B. Coli were found present, therefore had the well condemned and water from the Company's main laid on to the house. One case was that of a man working at the Corporation Sewage Works. sewers receive constant attention as in former years as regards flushing and disinfecting, and all subsidiary drains receive immediate attention. Collection of flies I consider a source from which Enteric might be carried.

DIPHTHERIA.

Forty-eight cases were notified, and twenty-seven of these were removed to Hospital. The deaths from this disease were nine, and several of those in Hospital were of a more severe type than in later years, the swabs from the throats have been examined bacteriologically, and a definite opinion has been arrived at, and cases are injected with Antitoxin, which, without doubt, is a great boon in a very large proportion of cases. We still continue active in seeing that domestic animals are removed from being close to the house, and are not kept in too confined spaces.

I had no deaths from measles reported to me. From school notices and information received from the School Medical Officer there have been some cases in the district, but not to a very large extent.

No cases of Small Pox have occured during the year, but there have been a small number of cases of Chicken Pox.

Deaths from diseases of the respiratory organs were as follows:— Phthisis or Pulmonary Tuberculosis. From this disease forty-six deaths took place. Where possible I always give instructions for the rooms to be fumigated after death free of cost. I should be pleased if the Medical Attendant would advise the friends the necessity of this being done, and also inform me of all deaths of this kind; their word would do more good than notices being served. The deaths from Pneumonia numbered nineteen, and from Bronchitis forty-eight, the largest numbers being at the two extremes of life, viz.: under one year and over sixty. From other tubercular diseases there were seven deaths. Seventeen took place from accident, and four from suicide. There were thirty-seven deaths from cancer or malignant disease. It might be interesting to notice in the following table the chief headings under which deaths occured, and as to the sexes:—

Seat o	f Disease.		Male.	Female.	Total.
Liver and G	all Bladde	er	I	 10	 II
Uterus				I	 I
Throat and	Tongue		3	 0	 3
Breast			0	 3	 3
Jaw			I	 0	 I
Stomach			4	 2	 6
Œsophagus			0	 I	 I
Lung			1	 0	 I
Bowel	2		2	 5	 7
Lip			I	 0	 I
Bladder			I	 0	 I
Part unspeci	ified		0	 I	 1
L					-
			14	23	37
				-3	-

The following Infectious cases were reported to me during the year:—

	Diphtheria.	Erysipelas.	Scar	let Fever.	Ent	teric Fever.
January	II	 ^		10		4
February	2	 I		I 2		I
March	5	 2		8		3
April	4	 2		5		4
May	5	 2		6		0
June	2	 0		13		I
July	3	 1		3		0
August	4	 0		6		2
September	4	 I		4		5
October	2	 I		5		3
November	4	 I		4		0.
December	2	 3		3		I
	_	_		_		
	48	14		79		24

Of this number there were conveyed to our Hospital and treated twenty-seven diphtheria, forty-eight scarlet fever, and fifteen enteric fever.

I have personally visited on several occasions over seventy shops selling milk, and impressed upon all the necessity of the greatest cleanliness, and the necessity for the covering of the milk so as to prevent any deleterious matter settling on it. In company with the Veterinary Surgeon I have made periodical inspection of all the dairies and cowsheds, and examined all cows, and none of a tuberculous nature found, at the same time giving attention to all the general surroundings as to cleanliness, light, sufficient space, removal of manure, and free drainage.

I might here mention that all the milkshops are registered, and when an application is made for a new one, or a transfer, I inspect the premises and give advice to the seller before it is granted. A large quantity of the milk sold in the district is imported from farms around, and some from Wiltshire. There are not nearly-so many cows kept in the district as in years past.

The Health Committee have before them each year the applications for renewal of slaughter-houses. This, I consider, a step in the right direction, as it tends to keep the occupier up to a better standard, and gives the Committee power to refuse same if necessity arises. One good transfer this year is from an old one in Brompton to a new spot in Beresford Road. I continually visit these places on my rounds, and often at killing times. There are seventeeen slaughter houses in the district. There is no Inspector with a special certificate in meat inspection in this district. If any animals are suspicious, and there have been some which appeared tuberculous before killing, in each case I have called in the Veterinary Surgeon to be present with me. In one there was a trace in one of the internal organs, but not sufficient to condemn the whole carcase, the organ was taken away and destroyed.

Among other inspections the fish shops receive attention. I have not received any complaints when fish are being fried, and I consider the new enclosed frying apparatus a very great improvement. Fresh fish is also inspected both before coming out of the boxes, and when exposed for sale, and what is put ready for cooking. I had to condemn one box of fish brought direct to me from the railway station, but which had not been exposed for sale.

In the district there are eighteen bakehouses; of these four are under-ground, and were so before the passing of the Act. The general conditions of all these is in a satisfactory state. I personally visit these several times in the year, as well as all premises where food is cooked and sold in the form of cooked meat. Cleansing is

performed by whitewashing twice a year regularly, or oftener where I consider it necessary.

In reference to the Factory and Workshops' Act, which comes under the the supervision of the Sanitary Department, and also the visiting of houses where work from Factories is taken home to be finished. These are classified under the proper headings in the sheet accompanying this report, and to these various Factories, Workshops and Workplaces, over a thousand visits have been made. There have been minor defects in some of these places, but on the usual notice being served they have been set right. In a few cases I have had to give cautions as to overcrowding in workrooms. Sanitary arrangements receive special attention, and in two cases new w.c.'s have had to be provided, as the two sexes were at work in the same room. Cubic space is measured in all necessary cases, and same entered on schedule, which also gives the number that may work in the same room.

In reference to collection of house refuse, this is undertaken by a contractor under the Borough Authorities' control. The collection takes place three times a week from all parts of the district, in suitable carts with properly fitting tops, and taken to a spot known as Commodore Hard, in close proximity to the Sewage Outfall Works. It is then fired, and is being rolled, thus forming a good road and a substantial bank around the works, preventing the inroad of the tide, which does at times rise very high. We certainly see a very strange collection of articles put out in the streets containing the refuse, but there are certainly more sanitary dust bins than in previous years. More of the marsh has been obtained, and so for the present, the tip will be in use for some time to come.

The record of rainfall for several years is now appended. It is of interest to notice the variations that take place for the various months, and then the totals for the year. In passing, it is worthy of mention that one inch of rain means that it is equal to 22,000 gallons per acre, and 14,500,000 per square mile, and provided it all percolates into the earth, every inch would yield per square mile 40,000 gallons per day for one year. These returns are kindly sent me by Mr. W. Coles Finch, the Resident Engineer, living at the Water Works, Luton, where the returns are taken. The water comes from springs situated well down in the chalk, and is pumped into various reservoirs from which the district is supplied. It is a water of great purity, very suitable for domestic purposes, and the supply is continuous. It is of a hard character, and that you would naturally expect from its source.

The result of the last analysis is as follows:—

(1).—Chemical.

Total Solids (dried at 120° c.)

Combined Chlorine

Grains per gallon.

23.80

1.60

			Gra	ins per gallon.
Expressed as U. Cl.				2.64
Nitrogen as Nitrates				0.32
Nitrites				Nil.
Saline Amonia				Nil.
Album. Amonia				0.0008
Oxygen absorbed in 4 h	ours at a	27° C.		0.002
Total Hardness				16°1
Lead or Copper				Nil.
(2).—Bacteriological. Average number of org colonies on gelat 20-22c for 3 days	ine plate	es inculat	ted at	146 per c.c.
Average number of orga colonies on ajar p for 2 days				88 per c.c.
B Coli				nd in 100 c.c.
Streptoeoca				und in 30 c.c.
B Enteritidis Sporojene	S		not fou	nd in 100 c.c.
	7			

CONCLUSIONS.

The chemical results are all satisfactory, and there is no evidence of recent contamination with sewage or animal excreta.

The water is a trifle hard, but of a high degree of purity.

RAINFALL in 1904.

Rain gauge Diameter of tunnel, 5 ft.

Height of top Sabove ground, 3 ft. above sea level, 88 ft.

		(au	ove sea ievel, o	0 11.	
	Total depth. Inches.		Greatest Fall in 24 hours.		ys on which more fell.
January	3.51		.77—13th		20
February	2.84		.60—12th		18
March	1.41		.33—2nd		14
April	.71		.23—22nd		7
May	1.33		.25—2nd		15
June	1.24		.49—9th		7
July	2.55		1.42-27th		7
August	1.91		.95—22nd		9
September	.86		.21—6th		12
October	1.46		.40—6th		12
November	1.25		.37—10th		8
December	2.62		.606th		20
	21.49				149

RAINFALL in 1905.

	Total depth. Inches.	Greatest Fall in 24 hours.	No. of days on which					
January	.66	 .40—16th		9				
February	.68	 .30—26th		10				
March	2.13	 .47—10th		20				
April	2.31	 .40—30th		18				
May	.96	 .45—1st		7				
June	5.34	 1.35—5th		16				
July	.50	 .20—27th		6				
August	1.96	 .46—28th		16				
September	1.62	 .31—9th		13 .				
October	1.13	 .64—30th		8				
November	2.83	 .42—1st		17				
December	.54	 .13—29th		10				
	20.66			150				

RAINFALL in 1906.

	Total depth. Inches.	Greatest Fall in 24 hours.	nys on which more fell.
January	3.36	 .8o—16th	 17
February	1.75	 .48—17th	 16
March	1.37	 .23—10th	 19
April	.56	 .26—18th	 6
May	1.60	 .59—20th	 12
June	3.06	 1.20—28th	 8
July	2.27	 1.75—27th	 6
August	.63	 .25—15th	 6
September	1.53	 ·47—4th	 11
October	3.44	 .85—30th	 17
November	5.12	 .68—7th	 16
December	1.74	 .40—25th	 16
	26.43		150

RAINFALL in 1907.

.50—1st		
		9
.25 16th		13
.22—5th		10
.80—24th		14
.29—31st		16
1.55—1st		14
.66—11th		14
.59—17th		14
.27—30th		7
.64—8th		23
1.00—26th		11
.75—12th		13
		161
	.25 16th .22—5th .80—24th .29—31st 1.55—1st .66—11th .59—17th .27—30th .64—8th 1.00—26th	.25 16th22—5th80—24th29—31st 1.55—1st66—11th59—17th27—30th64—8th 1.00—26th

RAINFALL in 1908.

	Total depth. Inches.	Greatest Fall in 24 hours.	ays on which more fell.
January	1.15	 .86—7th	 9
February	.92	 .25—16th	 13
March	2.03	 .53—25th	 16
April	2.44	 .80—24th	 14
May	1.48	 .73—29th	 8
June	1.22	 ·53—4th	 6
July	2.57	 .56—16th	 11
August	3.24	 .74—23rd	 14
September	1.66	 ·73—3rd	 12 .
October	1.44	 .37—16th	 12
November	.77	 .29—21st	 10
December	2.21	 ·47—14th	 18
	21.13		143

RAINFALL in 1909.

	Total depth. Inches.	Greatest Fall in 24 hours.	ays on which more fell.
January	.76	 ·16—14th	 13
February	.89	 25—10th	 10
March	3.32	 ·623rd	 25
April	1.60	 '45—19th	 II
May	1,10	 '35—16th	 6
June	2.72	 ·55—3rd	 16
July	3.48	 ·50—27th	 17
August	2'22	 .70—24th	 10
September	3.10	 ·65—22nd	 19
October	3.90	 1.13-26th	 29
November	1.08	 ·36—15th	 9
December	3.13	 ·54—2nd	 19
	27.30		177

The Council Infectious Hospital, situated at the top of Canterbury Street, has accommodation for fifty patients, and the diseases treated are Scarlet Fever, Diphtheria, and Enteric Fever. The rearrangements and improvements spoken of last year are accomplished facts, and add very specially to the efficiency of the Hospital and comfort of the Matron and Staff. The "Manlove and Alliott" disinfector is working in a very satisfactory manner. The Matron and Staff are thoroughly efficient, and prepared to cope with any cases taken in for treatment. After cases are removed from their homes to the Hospital, and also when remaining home after recovery, their rooms and clothing are thoroughly disinfected by Formaline. If a covered cart was provided, beds and other articles could be disinfected, and especially in cases connected with the School Authority, as the only method very often where you can ensure thorough disinfecting and killing of vermin is by superheated steam, such as is generated in the disinfector.

Should any cases of Small Pox occur we are prepared, as at Wigmore we possess a Hospital well isolated and equipped, with persons living there, so that it is always ready for occupation.

The housing accommodation in the district is of a suitable character, and there is an ample supply. The large majority are kept in a satisfactory condition. In certain cases notices have to be

served for cleansing and purifying, but that one will find in all towns a necessity. One point that strikes me as I make my visits is the neglected state of so many gardens. Many back premises could be made bright and cheerful were the ground tilled and a few flowers put in, or better still, a few vegetables. The paving of back alleys has been a very great improvement, and the landlords and tenants thoroughly appreciate it. Our population is composed of skilled artizans, the corps of Royal Engineers, and the Naval service. The Royal Dockyard is the main stay of employment. All new buildings are under the supervision of the Surveyor and his Staff, who give full attention to sufficient air space and materials used in the operation of building.

In reference to our sewerage and drainage, it is the water carriage system, and we have no cesspools or old privies in the town except where too low to join the sewer, or are 100 feet away from it. To the end of the year 9,491 houses were connected to the main sewer. There are surrounding the town about 285 houses that cannot join, so that it means we must always keep a staff and appliances ready for emptying cesspools, and many of these being old, require constant attention. Our system is that of precipitation and treatment with alumino ferric and lime, after which the clarified liquid is turned into the Medway, while the sludge is pressed and sold for use on the land. The condition of our sewers and house drains is satisfactory. We have occasional chokes, but our staff is always available, and those matters receive immediate attention. The Sanitary staff also undertakes the testing of drains by the smoke or water system, whichever is most appropriate.

In reference to our river, I consider the crude sewage coming from Government Establishments should certainly receive more attention than it does at present. I look upon it as a source of pollution, and several cases of Enteric Fever have occured from eating wild oysters from the shore opposite these establishments.

Regarding nuisances in the district, many have occured during the year, but on serving the legal notices there has been no trouble in having them abated. As examples:—manure heaps in several parts of the district; gullies choked; yards requiring cementing; ruinous cottages which were pulled down; several others unfit for habitation in their present condition have been closed and boarded up; the team yard put in a better state of sanitation, viz.: all broken windows renewed; old brick floors taken up and concreted; earthenware gullies substituted for old bell traps; the old iron chimneys taken down and new put up. In places, ground given way at back of alleys. Curing fish next to wall of house becoming a nuisance, I had the shed for curing moved to a more suitable spot. In many places weather boarding and rain water pipes had become dangerous. All

houses where more than one used the same water closet have been inspected, and lists submitted to Health Committee for them to take action. In several cases water closets, out-houses, and various buildings have been in a dangerous state; these have all received attention. All hawkers selling mussels, cockles, oysters, &c., have their address taken and enquiries made as to where they obtain them.

I have had some general instructions and hints printed in reference to Tuberculosis, and these are distributed by the Sanitary Inspector.

All urinals in the district have been visited, especially those in connection with Licensed Victuallers' premises, both those that are open to the public and those that are used by customers only, and in several cases notices have been served for them to be put in a more sanitary state and water laid on. It would be an improvement if those attached to public houses were used for their customers only.

The Corporation are putting up new public urinals, which are much needed, and provisions are to be made for more to be put in the populous parts of the town. The present under-ground lavatory for both sexes is a great boon, and is kept in a thorough sanitary condition.

I was present with the Health Committee at the inspection of cabs that ply for hire in the district, in respect to their cleanliness, condition of seats and cushions.

Notices in reference to conveyance by railway or by water of unfit horses have been received under the Diseases of Animals' Act. These were handed to the Inspector of Kent County Constabulary for his perusal and publicity.

Urinal at Public Hall which was not well ventilated and thereby became a nuisance, was inspected by the Borough Surveyor, and his wishes in improving were carried out.

In company with a deputation from the Oyster Merchants of London, I visited the beds at Whitstable, Elmley, Medway and Queenborough, where oysters were laid down and from where the public were supplied.

In company with the Borough Veterinary Surgeon, I have several times been called to the Naval Victualling Establishment, for our opinion as to the quality and freedom of disease of carcasses of beasts that have been killed there.

We have no common lodging houses in this part of the district, and no offensive trades are carried on.

In reference to schools, all particulars of them will be found in accompanying report. All are, except Hempstead, supplied with water from the Company's mains. I have frequently been present at time of children feeding.

Referring to the Midwives' Act, the supervising of this is undertaken by the Staff appointed by the County Medical Officer.

There have been no cases of Puerperal Fever notified to me. The Notification of Births Act, 1907, in relation to infant mortality has not been adopted in this district, and no health visitors are employed.

It is my practice to make systematic inspections of the district, taking streets or special parts of the town, and inspect drains, back premises, houses and alleyways; noticing general conditions of people as to personal cleanliness; also that of houses in reference to floors, furniture, linen and bedding, and impressing upon them the necessity of setting an example to their children, especially as the School Medical Officer is doing his best in that direction.

The marriage rate of the district, according to the return sent to me by the Superintendent Registrar, viz.: 231, gives a marriage rate of 4'3 per thousand of the population.

The number of uncertified deaths during the year was nineteen.

As to vaccination, it is worthy of note that the number of vaccinations was 1,001, and the declarations of objection for the year were 282. Section 53, year 1907, is adopted in this district.

Our Queen's Nurses, three in number, are still in our midst, doing excellent work and thoroughly appreciated by all classes of the community. They are still under a most excellent Committee, consisting of ladies, clergy, medical men and laity.

I remain, Gentlemen, Your obedient servant,

E. C. WARREN,

Medical Officer of Health.

ANNUAL REPORT OF THE SANITARY INSPECTOR.

Sanitary work carried out by the Sanitary Inspector during the year ending 31st December, 1909.

During the year twenty-seven cases of Diphtheria, forty-eight cases of Scarlet Fever, and fifteen cases of Enteric Fever were removed to the Infectious Hospital, and all houses, bedding and clothing have been disinfected after the removal of the patients.

The number of infectious cases treated at their homes during the year are twenty-one cases of Diphtheria, thirty-one cases of Scarlet Fever, nine cases of Enteric Fever, fourteen cases of Erysipelas, and twelve cases of Consumption. No cases of Small Pox being being reported to me during the year.

The number of houses disinfected during the year where patients have recovered from an Infectious disease after treatment at their homes is seventy-six.

Houses disinfected where patients have died suffering with Consumption were five.

The number of dead bodies removed from their homes to the mortuary, and orders given for their burial, by order of Dr. Warren, the Medical Officer of Health, has been four.

The Cowsheds, Dairies, and Milkshops in the Borough are inspected from time to time, and cautions given for the storage of the milk.

The number of Slaughter-houses in the Borough is seventeen; inspections are constantly being made to these premises.

The Factories, Workshops and Workrooms are visited and inspected as often as possible throughout the Borough. New premises are measured and reported to the Inspector of Factories.

List of home-workers are received from Rochester and Chatham every six months, and the homes of the home-workers are visited and inspected, and where necessary, orders are given to cleanse, etc., their premises.

Record of Sanitary Work:-

Privies emptied and attended to		 95
Cesspools " " "		 163
Pans of w.c.'s choked		 204
Pans of w.c.'s broken		 7
Pans of w.c.'s dirty		 19
Yard Gullies choked		 191
Yard Gullies broken		 14
Yard Gullies without covers		 10
W.c.'s out of repair		 47
Vent shafts defective		 15
Water supply pipes burst		 239
Flush pipes broken away from the pan		 38
Subsidiary drain pipes broken		 6
Offensive Air Inlets		 6
Kitchen sink pipes broken		 16
Inspection pit-covers broken		 6
Cisterns out of repair		 89
Disused soilpits fallen in		 I 2
Accumulation of refuse in gardens		 24
Back premises in a dirty condition		 14
Backyards out of repair		 38
Roofs of houses out of repair		 9
Houses in a dirty condition		 II
Houses with defected drainage		 28
Houses with insufficient drainage		 2
		 21
Sewage matter purcolating into cellars		 12
Liquid matter running into public street		 6
Backyards and cellars flooded with storn		 7
		 7
Main sewer choked		 6
Subsidiary drains choked		 1341
		 12
Fowls and rabbits kept in a dirty conditi		7
owis and labout Rept III a diffy Conditi	ULL	 1

Animals kept in a dirty condi	tion		 7
Dangerous chimneys			 9
Kitchen sink broken			 16
Guttering and spouting defect	ive and	broken	 31
To provide water for flushing	W.C.		 22
Ruinous buildings			 62
Pan of w.c.'s defective			 3
Fences of forecourts out of re	pair		 5
Drains tested			 5
Water from wells condemned			 I
Roofs of houses out of repair			 9
New cisterns in w.c.'s			 2
Damp walls in houses			 5
Mica flaps to fix			 3
Premises flooded by storm			 I

Yours faithfully,

JAMES NORRIS,

Sanitary Inspector.



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TABLE I.

Vital Statistics of Whole District during 1909 and Previous Years.

Name of District-GILLINGHAM, KENT.

ALL AGES BELONG ING TO THE DIS'T.		r. Rate.*	13	13.4	14-6	11-9	13.3	10.7	1111	9-01 8	8-6	8-6	1 10-3	11.5	8.4
ALL AG ING TO		Number.	12	534	564	510	583	481	538	528	495	489	521	52.53	452
Deaths	L 20	Public Institu- tions be- yond the District.	11								L+				
Deaths	Non- residents regis- tered in	Public Institu- tions in the District.	10						724						
	TOTAL DEATHS in Public	Institu- tions in the District.	6	41	53	49	67	93	81	11	69	69	† 9	65	99
ERED	ages.	Rate.*	90	13.4	14-6	11-9	13.3	10.7	11:1	9-01	8.6	8.6	10-2	11.5	**
TOTAL DEATHS REGISTERED IN THE DISTRICT.	At all ages.	Number.	1	534	564	510	582	481	531	528	495	489	521	61 61 10	452
I DEATHS REGIST IN THE DISTRICT.	year of	Rate per 1,000 Births revist'rd.	9	6.4	4.4	3.3	3.5	3.5	4.3	3.6	3.3	5.6	61	3.4	6.89
TOTAL	Under 1 year of age.	Number.	5	155	157	143	153	157	207	182	160	121	III	154	100
HS.		Kate.	4	29-1	29.4	26.1	29.5	31.0	28.0	29.3	26.9	26-6	26.5	61 80 61	27-1
BIRTHS.		Number.	3	1067	1137	1114	1277	1390	1355	1458	1352	1318	1375	1284	1451
	Population estimated to Middle of		N	36605	38606	42520	43625	44850	48245	49600	50140	49505	51755	45565	53185
		YEAR.	1	6681	0061	1061	2061	1903	1904	2061	9061	1901	1908	Averages for years 1899-1908.	1909

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

Norre—The deaths to be included in Column 7 of this table are the whole of those registered during the year as having actually occurred within the district or division. The deaths to be included in Column 12 are the number in Column 7, corrected by the subtraction of the number in Column 10 and the addition of the number in Column 11.

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

The "Public institutions" to be taken into account for the purposes of these Tables are those into which persons are habitually received on account of sickness or infirmity, such as hospitals, workhouses and lunatic asylums. A list of the Institutions in respect of the deaths in which corrections have been made should be given on the back of this Table. Total population at all ages 42,520 Number of inhabited houses ... 8,227 CT1901.

Averge number of persons per house 5 A of Area of District in acres (exclusive) 4,936, of area covered by water)



TABLE II.

Vital Statistics of separate Localities in 1909 and previous years.

Name of District-GILLINGHAM (KENT).

NAMES OF LOCALITIES.	1. 0	ILLING	HAM.		2				3				4				5				6				7			
YEAR.	Population esti- mated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under I year.	Population esti- mated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under I	Population esti- mated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under I year.	Population esti- mated to midde of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.
	a.	b.	6.	d.	a.	ь.	с.	d.	a.	в.	6.	d.	a.	b.	6.	d.	a.	ь.	6.	d.	a.	b.	6	d.	a.	b.	6.	d.
1899	36605	1067	534	155																								
1900	38606	1137	564	157											-													
1901	42520	1114	510	143																								
1902	43625	1277	582	153																								
1903	44850	1390	481	157														1										
1904	48245	1355	538	207				3											-									
1905	49600	1458	528	182																								
1906	50140	1352	495	160																								
1907	49505	1318	489	121																								
1908	51755	1375	521	111								1																
Averages of Years 1899 to 1908	45565	1284	522	154																								
1909	53485	1451	452	100																								

Notes.—(a) The separate localities adopted for this table should be areas of which the populations are obtainable from the census returns, such as wards, parishes or groups of parishes, or registration sub-districts. Block 1 may, if desired, be used for the whole district: and blocks 2, 3, &c., for the several localities. In small districts without recognised divisions of known population this Table need not be filled up.

(b) Deaths of residents occurring in pablic institutions beyond the district are to be included in sub-columns c of this table, and those of non-residents registered in public institutions in the district excluded. (See note on Table 1. as to meaning of terms "resident" and "non-resident.")

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

(d) Care should be taken that the gross totals of the several columns in this Table respectively equal the corresponding totals for the whole districts in Tables I. and IV.: thus, the totals of sub-columns a gree with the figures for the year in the columns 2, 3, and 12 respectively, of Table I.: the gross total of the sub-columns c should agree with the total of column 2 in Table IV., and the gross total of sub-columns d with the total of column 3 in Table IV.



TABLE III.

Cases of Infectious Disease notified during the Year 1909.

Name of District-GILLINGHAM, KENT.

		CA	SES NOTIF	IED IN WHO	OLE DISTRI	CT.		TOTAL CASES NOTIFIED IN EACH LOCALITY.								‡No. of Cases removed to Hospital from each Locality.						
Notifiable Disease.	At all			At Ages	+-Years.			1	2	3	4	5	6	7	1	2	3	4	5	6	7 Total	
	Ages.	Under 1.	I to 5.	5 to 15.	15 to 25.	25 to 65.	65 and upwards.														cases removed to Hospita	
Small-pox	_	-	_	_	_		_								_							
Cholera	-	-	-	-	-	-	-			19					_							
Diphtheria (including Membranous croup)	48	_	14	24	2	8	_		1 3						27						27	
Erysipelas	14	1	-	-	3	9	1															
Scarlet fever	79	1	21	45	7	5	-			10					48						48	
Typhus fever	-	_	-	-	-	-	-								_						_	
Enteric fever	24	-	1	6	7	10	-								15						15	
Relapsing fever		-	-	-	-	-	_								_						10	
Continued fever	_	-	_	-		-	_								_							
Puerperal fever	_	_	-	_	_				-						_		12					
Plague	_		-	-	-	-	_								_							
•				1																		
Totals	165	2	36	75	19	32	1								90						90	

Notes.—The localities adopted for this Table should be the same as those in Tables II. and IV.

State in space below the name of the isolation hospital, if any, to which residents in the district, suffering from infectious disease, are usually sent, and the accommodation, available for the district, afforded by it. Mark (II) the locality in which it is situated, or if not within the district, state where it is situated, and in what district. The name of the authority by whom the hospital is provided should also be given. Mark (W) the locality in which a workhouse is situated.

* This space may be used for record of other disease the notification (compulsory or outherary) of which is in force in the district.

† These age columns for notifications should be filled up in all cases where the Medical Officer of Health, by inquiry or otherwise, has obtained the necessary information.

‡ Column 7 should be filled up with the Totals of cases removed to Hospital, whether the District is divided into separate localities or consists of only one undivided area.

***Alternation Meaning Weapone for Small Res. (c).

Isolation Hospital-Infectious Hospital, Canterbury Street. Total available beds, 50. Number of diseases that can be concurrently treated, 3.

Alexandra Hospital, Wigmore, for Small Pox (5).



TABLE IV.

Causes of, and Ages at, Death during Year 1909.

Name of District—GILLINGHAM, KENT.

Residents or Non-	in Public Instituti's in the District	1	1	1	i	1	i		-	1	1	1	1	1	I	63	4	-	20	01	01	1	1	01	+	1	1	5	1	1	36	00
O THE	15																															1
LOCALITIES, WHETHER OCCURRING IN OR SEYOND THE DISTRICT.	77								_	_												-		_								1
1	13								-	_	_											_										I
STRICT.	12								-	_																	- 10					1
Di	n								+		_	_																				1
	10								+																							1
Localin	a								Ť		_																					1
	65 and up- wards.	1	1	1	1	1	1	111	1	1	1	1	1	1	1	1	ī	1	16	21	4	1	1	1	1	Ī	1	=	60	1	55	-
a construction	25 and under 65.	1	1	T	1	1	1	111	-	I	1	1	1	-	1	T	861	-	16	10	1-	1	1	1-	1	i	1	88	1-	4	65	-
TOWN TO	15 and under 25.	1	1	04	1	1	1	04	1	1	1	1	1	1	1	1	10	63	-1	1	65	1	-	-	1	1	- 1	c1	-	1	=	-
N OK BE	5 and under 15.	1	1	1	1	4	1	111	1	1	1	1	1	1	1	1	65	- 1	1	1	1	1	1	-1	-	1	i	1	1	1	6	1
WHETHER OCCURRING IN OR SEYOND THE DISTRICT.	1 and under 5.	1	1	1	1	10	1	111	1	1	1	-	1	-	1	1	-	-	- 1	9	1	1	1	1	1	1	Ţ	1	1	1	t-	1
IBR OCCI	Under 1 year.	1	1	1	-	1	1	111	1	F	1	4	03	-	1	1	1	-	-	14	60	1	1	1	-	24	- 1	1	00	1	4	1
WHET	All ages.	1	1	60	-	6	1	63	03	1	1	10	03	00	1	1	54	9	33	46	11	1	1	00	1	24	-	41	16	4	188	049
	CAUSES OF DRATH.	Small-pox	Measles	Scarlet fever	Whooping-cough	Diphtheria (including membranous croup)	Croup	Fever Enteric	Epidemic influenza	Cholera	Plague	Diarrhoea	Enteritis	Gastritis	Puerperal fever	Erysipelas	Phthisis (Pulmonary Tuberculosis)	Other tubercular dis- eases	Cancer, malignant dis-		Pneumonia	Pleurisy	Other diseases of Res- piratory organs	Alcoholism Cirrhosis of liver	Venereal diseases	Premature birth	Diseases and accidents of parturition	Heart diseases	Accidents	Suicides	1	VIII

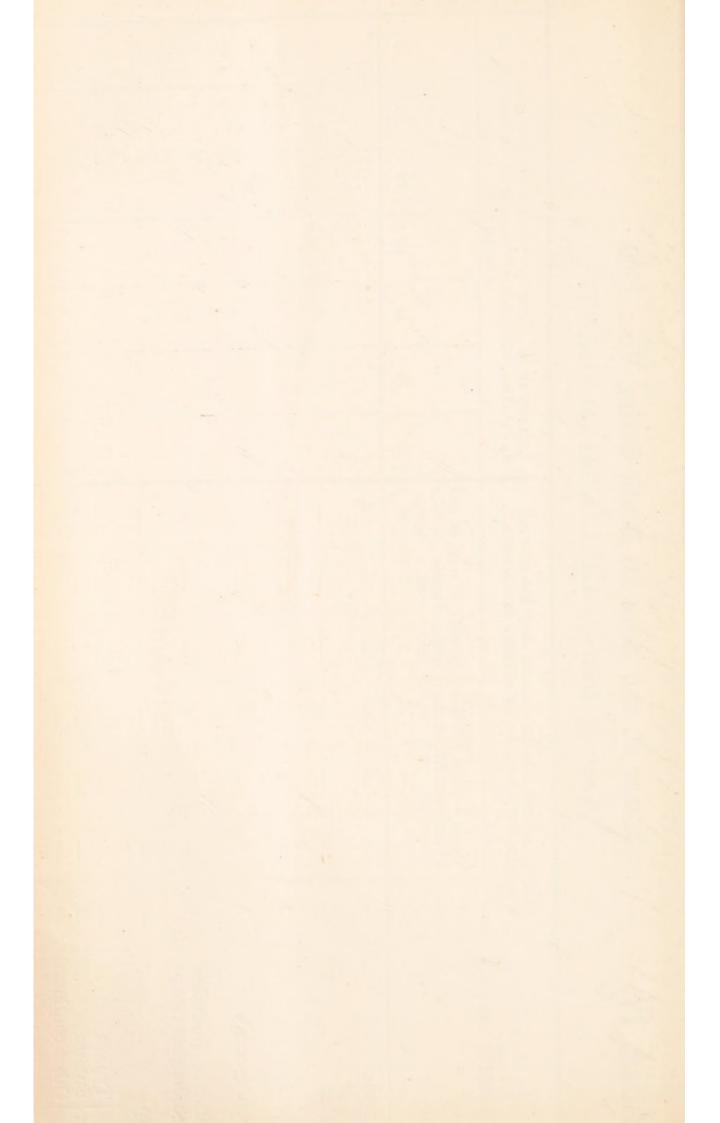


TABLE V. BOROUGH OF GILLINGHAM (KENT) DISTRICT.

INFANTILE MORTALITY DURING THE YEAR 1909.

Age.
Jo
Year
One
under
Months
and
Weeks
ij.
Causes
stated
from
Deaths

Total Deaths under One Year.	19			61	1	24		16				e4 ·	+	63	r	14		63	01	15	100
11-12 Months														-							-
sdinoM II-01																4					10
9-10 Months			-					-								01				-	10
sdraoM 6-8															-	1		1			60
sdinoM 8-7					-											1		1			00
sdinold 7-8	-																				
sdinold 8-8			-											-						-	04
4-5 Months													-	-	-	1				01	1
sdinold 2-8			-	9				-											-		60
2-8 Months								-				=11/1/2				00		1		1	9
I-2 Months			-	-		-		01												60	1
Total under I Month			-	н		ñ		=======================================				64	00		10	01			1	-1	28
3-4 Weeks			-			01		**				04	-			1					=
2-3 Weeks				-		-		00								1			-		7
I-2 Weeks								-							1					01	7
Under I Week						1 2		00					04		*					10	36
CAUSE OF DEATH.	Certified	Small-pox Chicken-pox Measles	Diphtheria : Croup (Whooping Cough	Enteritis Muco-enteritis Gastro-enteritis	_	Premature Birth		Want of Breast-milk	Tuberculous Meningitis		Other Tuberculous Diseases	Erysipelas	Syphilis	Meningitis Meningitis (not Tuberculous)		Bronchitis	Laryngitis	Paeumonia	Suffocation, overlaying	Other Causes	
CAU	All Causes	Common Infectious	Discasco	Diarrhocal Diseases			Wasting	Distract		Tuberculous. Diseases				***	Other	Causes					

District (or sub-division) of Gillingham, Kent.

Population (estimated to middle of 1909) 53,485.

Deaths in the year of [legitimate infants - 99] (illegitimate infants - 1)

Births in the year { legitimate - 1431 Deaths in the year of []

Deaths from all Causes at all Ages ... 452.



TABLE VI.

ANNUAL REPORT OF MEDICAL OFFICER OF HEALTH FOR 1909, For the Borough of Gillingham, Kent.

FACTORIES, WORKSHOPS, WORKPLACES, AND HOMEWORK.

1.-INSPECTION.

INCLUDING INSPECTIONS MADE BY SANITARY INSPECTORS OF INSPECTORS OF NUISANCES.

		ro radinos	
Premises.	Inspections.	Written Notices	Prosecutions.
FACTORIES	21	8	D.A.
WORKSHOPS (Including Workshop Laundries)	1008	9	:
WORKPLACES (Other than Outworkers' premises included in Part 3 of this Report).	195		2
Total	1224	6	

2.-DEFECTS FOUND.

						Z	Number of Defects.	cts.	Number
	Particulars					Found.	Remedied.	Referred to H.M. Inspector.	of Prosecutions.
Nuisances under the Public Health Acts :-	Health Acts	j							
Want of cleanliness	3	:	:	;	:	00	00		
Want of ventilation	;	;	:	1	:	-	1		
Overcrowding	:	1	1	:	:	63	00	es	
Want of drainage of floors	:	1	:	:	:				
Other nuisances	-	:		:	:				
	Insufficient		:	1	:	61	01		
Sanitary accommodation ansuitable or defective	unsuitable	or defect	tive	1	:				
	not separate for sexes	e for sea	S	:	:	04	04		
Offences under the Factory and Workshop Act:— Illegal occupation of underground bakehouse (S. 101)	id Workshop	Ad:-	S. ror)	:	i		4		
Breach of special sanitary requirements for bakehouses (SS. 97 to 100)	requirements	for bak	ehouses (SS. 97 t	0 100)				
Other offences	:	:	:	:	:				
	Total	1	:	:	:	=	=	00	



TABLE VI.-2.

3.—HOME WORK.

		Outworkers Lists, (S. 107).			some Premises (S. 108).	cs (S. 108).	Premise	Premises (S. 109, 110).
	Nature of Work.	Lists re- ceived from Employers twice in the year.	Lists re- Addresses of ceived from Outworkers Employers received twice in the from other year.	Inspections of Outworkers' Premises.	Instances.	Notices served.	Instances.	Orders made (S. 110).
Wearing appa	Wearing apparel-Making, &c Cleaning and Washing	18		260				
	4.—REGISTERED		WORKSHOPS	Si G			Number.	٠
Norkshops on th	Workshops on the Register (S. 131) at the end of the year.	of the year	d					
	Bakehouses		1				12	
	Underground Bakehouses	-					+	
pa 's: se jo	Dressmakers and Milliners	1					83	
cesto ce t cesto ce t cesto c ce t c ce t c ce t c c c c c c c c c	Tailors	:			:		20	
egres sac class	Carpenters and Joiners	:		1	1		12	
pe sq yobs	Blacksmiths	:	-	:			15	
orksl orksl orksl	Jewellers	1	1	:	1		10	
w w m	Laundries	:			:		60	
	Plumbers	:			1		9	
	Stone Masons	:	:	:	1		e)	
	Boot Makers	1					01	
	Tot	tal number	of workshop	Total number of workshops on Register	1		170	
	5.—OTHER		MATTERS.					
		Class.				1		
fatters notified t	Matters notified to H.M. Inspector of Factories:-	1 1 1 1						
Failure to af	Failure to affix Abstract of the Factory and Workshop Act (S. 133)	d Worksho	p Act (S. 13	(8)	:			
Action taken remediable the Factor	Action taken in matters referred by H.M. Inspectors as remediable under the Public Health Acts, but not under the Factory Act (S. §)	f. Inspector s, but not u		Notified by H.M. Inspector Reports (of action [taken] sent to H.M. Inspectors	aken) sent to			
Other	- 1	- 1	1					
Inderground Bal	Underground Bakehouses (S. 101):							
Certificates g	Certificates granted during the year	:	1	:	:			
In use at the	In use at the and of the second							