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City and County of Canterbury.

ANNUAL REPORT

OF THE

Medical Officer of Health

AND THE

Sanitary Inspector,

For the Year 1915.

J. A. Jennings, Ltd., Printers, St. George's Lane, Canterbury.

CITY OF CANTERBURY.

SANITARY COMMITTEE, 1916.

Mayor :

Councillor R. A. BREMNER.

Chairman :

Alderman W. WILTSHIER.

Councillor R. H. ARROWSMITH	Councillor L. A. PHILPOT
„ H. J. BELSEY	„ W. J. RUSSELL
„ W. G. DICKINS	„ J. G. B. STONE
„ J. McCLEMENS	„ F. WEST

Town Clerk :

HENRY FIELDING, Esq.

Medical Officer of Health.

FRANK WACHER, M.R.C.S., L.S.A.

Sanitary Inspector :

SAMUEL JEFFERY, C.R.S.I.

Census 1911.

Population, 24,621.

No. of Houses in Borough, 5669.

SUMMARY OF VITAL STATISTICS, 1915.

Population Census 1911....	...	...	24,621.
„ (Estimated) 1915.	...	...	24,595.
Area of District	...	...	3,976 acres
Density	{ 6.15 persons per acre 4.3 „ house		
Births	... 498.	Birth Rate	... 20.24
Average Birth Rate for six years—1900 to 1916 inclusive, 19.8			
Deaths	... 411.	Nett Death Rate	... 16.71
Average Death Rate for six years—1910 to 1916 inclusive, 13.6			
Infantile Deaths under One year—54. Mortality Rate per 1,000 Births—90.2.			
Excess of Births on Deaths—87.			

CITY AND COUNTY OF CANTERBURY.

ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

For the Year 1915.

MR. MAYOR, ALDERMEN, AND COUNCILLORS,

I have the honour of presenting to you my 39th Annual Report of the Health and Sanitary condition of the City for the past year.

Births—The number of births registered during the year 1915 was 495; 274 of which were males and 221 females; there were 3 inward transfers making a total of 498; viz. 277 of which were males and 221 females. There was an increase of 29 births on last year.

Birth-rate—The Birth-rate for the year 1915 was 20·24 per 1,000; for 1914 it was 19·4. Average for past six years 19·8.

Deaths—The gross number of deaths registered was 483, 247 of which were males, and 236 females. There were seven inward transfers and 79 outward transfers, including 31 soldiers, making the net number of deaths 411, there was an increase of 102 deaths over last year.

Death-rate—The gross death-rate for the past year of the estimated population to the middle of 1915, viz. 24,595 was 19·2 per 1000, excluding the 79 outward transfers, and including the 7 inward transfers. The net death-rate for the City was 16·71. Last year it was 12·5 per 1000. The average death-rate for the past six years were 13·6.

There were 55 deaths under 1 year of age.

18	„	of 1 and under 2 years of age
15	„	of 2 and under 5 years of age
23	„	of 5 and under 15 years of age
33	„	of 15 and under 25 years of age
44	„	of 25 and under 45 years of age
94	„	of 45 and under 65 years of age
and 201	„	of 65 and upwards making a total of 483.

TABLE I.

Vital Statistics of Whole District during 1915 and previous Years.

YEAR.	Population estimated to Middle of each Year.	BIRTHS.		TOTAL DEATHS REGISTERED IN THE DISTRICT.		TRANSFERABLE DEATHS.		NETT DEATHS BELONGING TO THE DISTRICT.		
		Un-corrected Number.	Nett.		Number.	Rate.	of Non-residents registered in the District.	of Residents not registered in the District.	Under 1 Year of Age.	
			Number.	Rate.					Number.	Rate per 1,000 Nett Births.
1	2	3	4	5	6	7	8	9	10	11
1910	26,881	533		19.1	380	14.1	44	—	53	<i>99.4</i>
1911	24,621	462		19.4	366	14.1	46	11	52	<i>112.95</i>
1912	24,590	508		21.02	324	13.1	49	16	38	74.8
1913	24,561	468		19.05	382	15.05	44	7	62	<i>139.95</i>
1914	24,531	466		19.04	344	14.02	42	7	28	<i>667.00</i>
1915	24,595	498		20.24	483	19.2	79	7	54	90.2 <i>108.</i>
									411	16.71

Area of District in acres (exclusive of area covered by water) 3,967.

Total population at all ages, 24,621. Number of inhabited houses, 5,699. Average number of persons per house, 4.3.
(As Census 1911).

TABLE III.

Deaths registered during the Calendar Year 1915, classified by age and cause.

CAUSES OF DEATH.	NETT DEATHS AT THE SUBJOINED AGES OF "RESIDENTS" WHETHER OCCURRING WITHIN OR WITHOUT THE DISTRICT (a)									TOTAL DEATHS WHETHER OF "RESIDENTS" OR "NON- RESIDENTS" IN INSTITUTIONS IN THE DISTRICT (b)
	ALL AGES	Under 1 Year.	1 and under 2 years	2 and under 5 years	5 and under 15 years	15 and under 25 years	25 and under 45 years	45 and under 65 years	65 and up- wards	
1	2	3	4	5	6	7	8	9	10	11
All causes { Certified (c) { Uncertified	...	...	...	...	...	...	...	...	...	...
Enteric Fever	1	...	...	...	...	...	1	...	...	2
Small-pox	...	...	...	...	...	...	...	...	...	...
Measles	13	5	4	2	2	...	...	...	...	13
Scarlet Fever	2	...	1	1	...	...	...	...	...	2
Whooping Cough	1	...	1	...	...	...	...	...	...	1
Diphtheria and Croup	11	...	...	...	5	...	...	1	...	12
Influenza	14	...	...	...	...	...	...	4	10	15
Erysipelas	1	...	...	...	...	...	...	1	...	1
Phthisis (Pulmonary Tuberculosis)	15	...	1	...	...	2	9	2	1	17
Tuberculous Meningitis	1	...	1	...	...	...	...	...	...	2
Other Tuberculous Diseases	6	1	1	...	2	1	...	1	...	8
Cancer, malignant disease	39	...	...	...	...	...	1	15	23	47
Rheumatic Fever	1	...	...	...	...	...	...	1	...	1
Meningitis (See note (d))	0	...	...	...	...	...	...	...	...	2
Organic Heart Disease	55	...	...	...	1	1	...	17	36	60
Bronchitis	45	3	1	2	...	...	...	15	24	47
Pneumonia (all forms)	23	8	5	3	...	4	...	...	3	34
Other diseases of respiratory organs	3	...	...	...	...	...	...	3	...	3
Diarrhoea and Enteritis (See note (e))	9	7	1	...	...	...	...	1	...	12
Appendicitis and Typhlitis	2	...	...	...	1	1	...	...	...	8
Cirrhosis of Liver	3	...	...	...	...	...	...	2	1	3
Alcoholism	1	...	...	...	...	...	1	...	...	1
Nephritis & Bright's Disease	11	...	...	...	...	...	2	4	5	12
Puerperal Fever	...	...	...	...	...	...	...	...	...	...
Other accidents and diseases of Pregnancy and Partu- rition	4	...	...	...	...	1	3	...	...	4
Congenital Debility and Malformation, including Premature Birth	11	11	...	...	...	...	...	...	...	12
Violent Deaths, excluding Suicide	7	...	...	...	1	...	1	1	4	16
Suicide	0	...	...	...	...	...	...	...	...	2
Other Defined Diseases	83	11	2	2	3	...	8	26	31	100
Diseases ill-defined or un- known	3	2	...	...	...	...	...	...	...	5
Senile Decay	42	...	...	...	...	...	...	...	1	42
Infantile Syphitis	2	2	...	...	...	...	1	1	...	2
Cerebro-Spinal Meningitis	2	...	...	...	...	...	...	...	...	4
Totals	411	50	17	15	16	10	27	95	181	490

Cancer, Malignant Disease caused 47 deaths, 39 net. 13 more than in 1914.

Rheumatic Fever—1 death. 1 more than last year.

Meningitis caused 2 deaths, both imported.

Organic Heart Disease caused 60 deaths, 55 net. 14 more than last year.

Bronchitis caused 47 deaths, 45 net. 26 more than last year.

Other Diseases of Respiratory Organ 3 same as last year.

Pneumonia (all forms) 34 deaths. 23 net. 17 more than last year.

Influenza caused 15 deaths, 14 net. 10 more than last year.

Diarrhœa Gastritis, and Enteritis caused 12 deaths, 9 net. 9 more than last year.

Appendicitis and Typhilitis caused 8 deaths 6 of which were soldiers, 2 net. same number as last year.

Cirrhosis of Liver caused 3 deaths, 2 less than last year.

Alcoholism caused 1 death, the same as last year.

Nephritis and Bright's Disease caused 12 deaths, 11 net. 9 more than last year.

Puerperal Fever nil, 3 less than last year.

Other Accidents and Diseases of Pregnancy and Parturition 4 deaths, two more than last year.

Congenital Debility and Malformation including Premature Birth 12 deaths, the same as last year.

Congenital Syphilis 2 deaths, 1 less than last year.

Violent Deaths caused 16 deaths, 7 net. 5 less than last year.

Suicide caused 2 (both imported) increase 2.

Other defined Diseases caused 100 deaths, 83 net. increase 16.

Diseases ill-defined or unknown caused 5 deaths, 3 net. increase two.

Senile Decay—42 deaths, increase 3. 1 101 years of age, 7 between 90 and 100, 23 between 80 and 90, 9 between 70 and 80 and 2 over 60 years of age.

TUBERCULOSIS.

PUBLIC HEALTH TUBERCULOSIS REGULATIONS, 1912.

Summary of Notifications during the period from the 12th January, 1915, to the 1st of January, 1916, in the City and County Borough of Canterbury.

AGE PERIOD.		0 to 1	1 to 5	5 to 15	15 to 20	20 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 and over	total	Number of Cases notified on Form C.	
Pulmonary Males ...	...	—	—	1	1	1	4	6	2	—	—	15	Poor Law Institution.	Sanatoria.
Pulmonary Females ...	...	—	—	4	4	2	3	4	—	1	—	18	2	—
Non-Pulmonary Males ...	...	1	1	4	1	—	—	—	—	—	—	7	—	—
Non-Pulmonary Females...	...	—	2	2	—	1	—	—	—	—	—	5	—	—
Totals ...	...	1	3	11	6	4	7	10	2	1	—	45	2	6

TUBERCULOSIS.

The number of cases notified by the Medical Practitioners during the year 1915 was 45, 6 of which were imported and two of these were soldiers. 33 of these were Pulmonary cases, one more than last year. 15 were males, and 18 females, 15 of these were insured, 8 died (3 females and 5 males,) 6 received Sanatorium treatment, 4 recovered, 12 received Domiciliary treatment, and 16 Dispensary, 2 are being treated in the Shelters at the Union.

Phthisis (Pulmonary Tuberculosis), 17 deaths occurred, two of which were imported—2 less than last year.

Tuberculous Meningitis caused 2 deaths—3 less than last year.

Other Tuberculous Diseases caused 8 deaths—2 of which were imported, 5 more than last year.

During the past year The Tuberculosis Dispensary has been doing good work diagnosing treating and observing cases of Tuberculosis sent by the Doctors of Canterbury and Dr. Reissman is now in charge and sees patients at 2.30 every Friday afternoon. The Dispensary is open to all persons suffering from Tuberculosis whether insured or not if sent by a Medical Practitioner, if not so sent they are examined once and after that referred to their Doctor, who will decide whether they shall be treated at the Dispensary or not.

The second part of the scheme, viz. Treatment in an Institution is still in abeyance owing to the War. The Sanatorium at Lenham is not completed.

I have visited on behalf of your Council all the cases notified. Made a report on each case, and inspected the premises, enquiring into their sanitary condition, as to over-crowding, dampness, defective drainage, water, etc., and when found defective I have reported to the Sanitary Inspector.

CANTERBURY TUBERCULOSIS DISPENSARY.

Statistics relating to Canterbury City patients. 1915.

Table showing the organs affected by tuberculosis disease in the patients who have attended at the Canterbury Dispensary during the year 1915

Lungs	...	...	...	20
Lymphatic glands			...	7
Eye	...	...	...	1
Spine	...	..	...	1

Patients suspected to be tuberculous and contacts who were found upon examination not to be so affected :—

Insured	Uninsured	Total.
1	19	20.

Table showing Attendances at the Canterbury Dispensary.

New Patients		Attendances.	
Insured.	Non-Insured.	Insured.	Non-Insured.
14	44	126	84

Sixteen patients received treatment at the dispensary, these included 6 insured and 10 uninsured patients.

Six patients attended for observation, all of these were insured patients.

THE MIDWIVES' ACT.

In the absence of the Inspector of the Act on Military duty, I have visited all the Registered Midwives and examined their records and kit. With the exception of one they were satisfactory. The one that was not satisfactory has retired, and returned her diploma to the Central Midwives Board after 41 years service.

There were seven registered at the end of 1915,

Maternity and Child Welfare Work.

Under War conditions Parliament have passed the Notification of Births Act, and a grant has been voted in aid of work done by local authorities and voluntary agents promoting Maternity and Child welfare work.

Canterbury Maternity and Mothercraft Association.

This Association supplies, in the City, the link for supervising the health of infants and young children till they attain school age. The great value lies in its educational work amongst mothers, which aims at mitigating the ignorance responsible for so large a proportion of the deaths, or the ill-health of mothers and infants—an annual loss in child-life alone far exceeding the terrible casualty lists.

Now that the Government has attracted public attention to the need of this work, it is hoped that the Association will soon be further recognised by grants from public funds, to enable it to extend its usefulness by undertaking work under the Notification of Birth's Act, as well as continuing its rapid growth in both Maternity and Mothercraft. The instruction given by highly-trained nurses during the daily visits at child-birth is followed up by health-visits as long as the children are under school age. Weekly infant consultations are much appreciated by the members of the Mothercraft Club and are held under Dr. Prentice, in the absence on War service of the Medical Officer of the Association, Dr. Thornhill Shann. The visits paid by the nurses during the year amounts to 2,824.

TABLE IV.

1915. Nett Deaths from stated causes at various Ages under 1 Year of Age.

[illegible]

INFANTILE MORTALITY.

There were 55 deaths under 1 year of age. 3 of which were outward transfers and 2 inward transfers—making 54 nett deaths.

Measles caused 5 deaths—increase 5 on last year

Whooping cough nil—decrease one

Abdominal Tuberculosis 1—same as last year

Other Tuberculous disease 1—same as last year

Convulsions 8—increase 2

Bronchitis 3—increase 2

Pneumonia 8—increase 5

Diarrhoea and Enteritis 7—increase 7

Gastritis 2—increase 1

Syphilis 2—stationary

Rickets 1—increase 1

Premature birth 11—increase 5

Congenital malformation 1—same as last year

Atrophy, Debility and Marasmus 2—same as last year

Other causes 3—increase 3.

The nett annual Infantile Mortality was ^{108.}~~90~~ to 1,000 nett births. There was a general increase in all causes of death under one year of boys. Measles was epidemic in the early months of the year, and caused 6 deaths under 1 year. Diarrhoea and enteritis was somewhat prevalent in the Autumn months and caused 7 deaths.

I visited all the homes of children dying under 1 year of age, and found want of proper food a common cause of convulsions.

The average Infantile Mortality for the past 6 years was 48. The average Infantile death rate 58 to 1,000 births registered for the same period.

INFECTIOUS DISEASE IN SCHOOLS.

The number of chief Infectious Diseases notified during the year was 273, as follows:—

Year.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Erysipelas.	Peurperal Fever.	Ophthalmia Neonatorum.	Poliomyelitis.	Cerebro- spinal Fever.
1914	73	56	8	16	1	5	—	1
1915	99	124	8	22	1	8	1	10
Increase	26	68	—	6	—	3	1	9
Decrease	—	—	—	—	—	—	—	—

TOTAL INCREASE ... 113.

Soldiers were billeted and in Camp within the Council's area throughout the year, 28 cases of Infectious disease were notified in the different units, viz.: 14 of Scarlet Fever, 5 of Diphtheria, 3 of Enteric Fever, and 6 of Cerebro-spinal Fever. In several cases the patients were brought from other districts for treatment in the Sanatorium.

TABLE II.

Cases of Infectious Disease notified during the year 1915.

NOTIFIABLE DISEASES.	NUMBER OF CASES NOTIFIED.								Total Cases removed to Hospital.	Members of H.M. Forces.
	At all Ages.	At Ages—Years.								
		Under 1.	1 and under 5 years	5 and under 15 years	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and upwards		
Small pox	—	—	—	—	—	—	—	—	—	—
Cholera and Plague ...	—	—	—	—	—	—	—	—	—	—
Diphtheria (including Membranous croup...	124	1	26	66	20	10	1	—	123	5
Erysipelas	22	—	—	3	6	6	6	1	—	—
Scarlet fever	99	—	13	51	26	8	1	—	94	14
Typhus fever	—	—	—	—	—	—	—	—	—	—
Enteric fever	7	—	—	3	4	—	—	—	5	3
Relapsing fever Continued fever ...	1	—	—	—	—	1	—	—	1	—
Puerperal fever...	1	—	—	—	—	1	—	—	—	—
Cerebro-spinal Meningitis ...	10	—	1	2	5	1	1	—	8	6
Poliomyelitis	1	—	1	—	—	—	—	—	—	—
Ophthalmia Neonatorum	8	8	—	—	—	—	—	—	—	—
Pulmonary Tuberculosis	33	—	—	5	8	17	2	1	8	2
Other forms of Tuberculosis ...	12	1	3	6	1	1	—	—	2	—
Totals	318	10	44	136	70	45	11	2	241	30

Isolation Hospital or Hospitals, Sanatoria, &c. :—Isolation Hospital within the District. City of Canterbury Corporation Sanatorium.

ZYMOTIC DEATH RATE.

The number of deaths notified from Zymotic diseases was 38 increase over 1914, 28, viz :—

Enteric Fever 1, Measles 13, Scarlet Fever 2. Whooping Cough 1, Diphtheria and Croup 11, Erysipelas 1, Diarrhœa and Enteritis 9.

The nett Zymotic death rate is 1·3 per 1,000.

DIPHTHERIA.

Diphtheria has been somewhat prevalent throughout the year 124 cases were reported, including 9 soldiers as follows :—

in 91 premises	...	...	1 case
„ 7 „	...	...	2 cases
„ 2 „	...	...	3 „
„ 1 house	.	...	6 „
„ 1 „	...	...	7 „

One cannot but impress upon parents the advisability of Medical treatment at an early stage in all cases of sore throat, this, I am sure, would prevent a large amount of infection being carried to other children in the house, also the earlier actual cases of Diphtheria are treated medically the better for the patients' recovery.

Four cases notified were imported from other districts. 5 cases were reported by the Military authorities.

SCARLET FEVER.

99 cases were notified—93 being treated at the Infectious Disease Hospitals.

No special out-break occurred—14 cases were reported by the Military authorities—7 of these were imported cases.

ENTERIC FEVER.

There were 8 cases notified, and 3 cases were treated at the Council's Sanatorium—3 at the Military Hospital—1 at the General Hospital—and 1 at home.

The drains at four of the premises where cases occurred were examined—three of them were found defective—Four cases were imported,

INFECTIOUS DISEASE IN SCHOOLS.

During October several cases of Diphtheria were notified, and the patients were found to be attending the same Infants' School, and in the same class-room, the School was closed for three weeks and disinfected by formalin spray.

Two other Schools were closed during the year—1 for measles and 1 for chicken-pox outbreaks.

INFECTIOUS DISEASES HOSPITALS.

The accommodation at the Councils Sanatorium was found adequate for the treatment of cases occurring among the civil population.

During the year the Military Authorities provided Isolation Hospital accommodation under their own control, in some cases however, patients from units have been sent to the Council's Sanatorium for treatment.

The number of cases treated at the Sanatorium was 232 :—

Diphtheria, 124 ; Scarlet fever 93 ; Cerebro Spinal Fever 8 ; Typhoid Fever 3 ; Tetanus 1 ; Tonsilitis 2 ; Measles 1 ; this entailed a large amount of work upon the Matron and Nursing Staff, which, I am pleased to report was cheerfully performed, giving entire satisfaction to the Civil and Military Authorities. 13 deaths took place during the year from infectious diseases and other complications: viz.—Diphtheria 9—Cerebro spinal Fever 2—Tetanus 1—Typhoid fever 1—3 of the deaths occurred among His Majesty's Forces.

SMALL POX HOSPITAL.

The Small Pox Hospital is situated at the City Northern Boundary, and in 1914 was enlarged by the addition of Nurses Quarters.

No case of small pox was notified during the year.

HOUSING AND TOWN PLANNING ACT, 1909

 1914.

During the year 1914—40 Closing Orders were made under Sec. 17 of the Act as follows :—

Cobden Place 15. Goulden's Buildings 9. Ivy Lane 5. Staplegate 9. Old Ruttington Lane 2.

The Owner of four houses, Nos. 6, 7, 8, 9, Goulden's Buildings has not repaired them. The houses are vacant.

Two houses, No. 11 and 14, Staplegate Place have been converted to provide scullery accommodation for the adjoining properties.

The other Houses having been put into repair fit for human habitation the closing orders were determined.

1915.

The New Houses built during the year numbered 20. Plans for new houses are submitted for the approval of the Council through the Roads and Survey Committee, the inspection being subsequently, carried out by the Surveyor's Department.

The Inspection during 1915, under the Regulations has been somewhat curtailed owing to pressure of other work, and the effort to reduce expenditure on structural alterations.

The work of repair at 31, 32, North Lane is nearly completed. The main nuisance at St. Gregory's Square is the want of a proper water supply. The owner having failed to provide a proper supply the Council considered it necessary to close the tenements.

TABLE I.
Housing and Town Planning Act, 1909.

NAME OF STREET.	No. Inspected.	No. of Houses Unfit for Habitation.	No. of Representations to the Local Authority	No. of Closing Orders made.	No. of Houses Remedied without Closing Orders.	No. of Closing Orders Determined.	No. of Houses dealt with under Public Health Act.	No. of Houses not Requiring Remedy.	No. of Houses dealt with under Section 15.	GENERAL CHARACTER OF DEFECTS FOUND.	
Simmond's Row	1	...	..	..	1	...	1	..	...	Walls damp. Want of sink and paving to yard.	
Barton Cottages	2	...	...	...	2	...	2	..	..	Want of proper water supply, also drain for refuse water. Privy foul.	
Old Dover Road	11	..	...	...	11	...	11	...	...	Defective drain. Walls damp. Want of proper sink, etc.	
Wincheap Street	4	...	...	...	4	...	4	...	...	Want of proper water supply to house and w.c.'s. Defective drains, paving to yard, etc.	
Rosemary Lane...	6	...	...	...	6	...	6	...	...	Defective drain. Walls dirty. Rooms verminous. Want of proper paving. Inside walls delapidated.	
St. Peter's Grove	7	...	...	...	7	...	7	...	..	Defective drains and paving to yard. Roof leaking. Sculleries in a delapidated condition. Defective guttering.	
Artillery Gardens	4	...	...	...	4	...	4	...	...	Defective drains, roof, guttering and paving to yards.	
North Lane	2	2	2	2	...	...	...	..	...	Defective drain. Damp walls, etc. Work of repair in progress.	
St. Gregory's Square ... (Tenements).	13	13	13	13	...	...	...	..	...	Defective drain. Want of proper water supply. Rain water pipes connected to drain. Inside walls dirty and delapidated.	

FACTORY AND WORKSHOPS ACTS.

The number of inspections made during the year were 206, viz :

Factories, 25.

Workshops and Workplaces, 181.

Also a number of re-visits while repairs were being carried out.

6 Statutory Notices and 36 Preliminary Notices were served to abate nuisances as follows :

Particulars.	No. of defects found.	No. of defects remedied.	Prosecutions.
Nuisances under the Public Health Acts :—			
Want of Cleanliness	13	12	
Want of proper Drainage to Floors... ..	1	1	
Other Nuisances	17	17	
Sanitary Accommodation insufficient	—	—	None.
Sanitary Accommodation defective	23	21	
Offences under the Factory Acts :—			
Breach of the Sanitary requirements as to Bakehouses ...	6	6	
Totals	60	57	

4 reports were received from H.M. Inspector of Factories. The nuisances complained of have been abated.

3 underground bakehouses are registered in the City. These on inspection were found in good order.

1 notice of outworkers was received and sent to adjoining district.

FACTORY AND WORKSHOPS ACTS. (Continued).

Table showing the numbers on registers at end of the year.

	No. on Register
Factories :	
(Including Factory Laundries)	54
Workshops ;	
(Including Workshop Laundries)	197
Workplaces	42
(Other than Outworkers' Premises).	
Outworkers' Premises	35
Total	328

MEDICAL INSPECTION OF SCHOOL CHILDREN.

Mr. Brian Rigden, the Medical Inspector, has examined 1,006 children during 1915, increase 101, viz., 561 boys, and 545 girls, in his work he has been ably assisted by the School Nurse.

In conclusion, although the death-rate is somewhat high, viz., 16.7, when you take the average for the past 6 years, viz., from 1910 to 1915 inclusive, it only works out at 13.6 per 1,000. The number of births has gone up by 32, a cause for congratulation, the average birth rate for the past 6 years is 19.8, in 1915 it was 20.2. The Infantile Mortality, viz., 54, has increased by 26, but again if you take the average for the past 6 years is only 48, and the average infantile death-rate ~~28~~ to 1,000 births registered which compares very favourably with other cities of a similar size. The infantile mortality last year, viz., 28, was the lowest on record. I wish to thank the Sanitary Inspector for the great assistance he has rendered me in this strenuous year of work. =97

I remain,

Mr. Mayor and Gentlemen,

Your obedient servant,

FRANK WACHER,

Medical Officer of Health.

RANMORE,

3rd March, 1916.

ANNUAL REPORT OF THE PUBLIC ANALYST

For the City and County of Canterbury.

193 SAMPLES ANALYSED DURING 1915.

Under "The Food and Drug Acts."—140 samples as follows:—

Of the above samples 19 were returned as adulterated.

Of the milk samples 11 were adulterated, 2 samples contained extraneous water to the extent of 3.3% and 6.5%. 9 samples were deficient in Fat, in amounts varying from 2.7% to 21.3%.

The remaining 61 samples were genuine and preservatives were not found in any sample of milk. The average figures for fat and non-fatty solids during the year were 3.43% and 8.85%. These included all the adulterated samples and are very similar to the averages for last year.

The other articles found adulterated were Cream, two samples of which contained Boric Acid the presence of which had not been declared. 4 samples of margarine which had excess of water, varying from 0.76% to 1.80% and two samples of sausage, which contained the large amounts of 0.75% and 0.56% Boric Acid.

All the samples were submitted by the Sanitary Inspector and 67 samples were returned as taken informally.

Water Analyses 24 samples

Of these eleven were from the public supply and were all very pure organically and free from sewage percolation.

2 samples from private sources were polluted more or less, 2 others were somewhat doubtful and were recommended to be re-examined, the remaining seven samples were satisfactory.

No samples of sewage or sewage effluent were examined during the year, but certain investigations with regard to certain sources of crude sewage and its character and treatment were made.

Under "The Fertilisers and Feeding Stuffs Act of 1906."

29 samples,

Two were feeding stuffs and the rest fertilisers.

2 samples were unsatisfactory, 4 were sold without guarantee, (by unit values) and the remainder were in accordance with their guarantees.

Reference should be made to the retirement of Mr. Sidney Harvey in September last, after over 40 years association with the City Council, on account of advanced age and feeble health.

ERNEST M. HAWKINS.

Public Analyst, City of Canterbury.

REPORT of the SANITARY INSPECTOR for the YEAR 1915.

SANITARY INSPECTOR'S OFFICE,
MUNICIPAL BUILDINGS,
CANTERBURY.

*To the Worshipful the Mayor, Aldermen and Councillors of the City and
Borough of Canterbury.*

Mr. Mayor and Gentlemen,

I have the pleasure herewith in presenting to you my report and summary of work done during the year 1915.

The number of inspections and visits are set out in the following tables, some difficulty has been experienced owing to shortage of labour, the notices served have been directed to the abatement of urgent nuisances injurious to health, no large amount of structural alterations being requested during the year.

38 Statutory notices and 350 preliminary notices were served during the year.

Two summonses were issued for non-compliance with Statutory Notices, 1 for an house overcrowded the defendant was fined £1, and ordered to reduce the number of inmates, 1 for defective drains the defendant was fined £2 and ordered to do the work in 14 days. The work not being commenced during the period ordered, a further summons for disobeying the Order of the Court was issued, on the date of hearing the summons was withdrawn, the work being then nearly completed,

Returns of sanitary work for 1915 :

No of Premises Inspected (Public Health Acts).	526.
" (Infectious Diseases).	200.
" (Factories and Workshops).	129
" Dairies, Cowsheds and Milkshops.	36
" Ice Cream Makers.	6
" Bakehouses	45
" Slaughterhouses. ...	231
" Offensive Trades. ...	1
Visits <i>re</i> Sale of Food and Drugs Acts ...	140
" Samples of Water—Public	
Supply	11
Private	
Supply	13
" Sale of Food Stuffs	51
No. of Dwelling Houses inspected (Housing and	
Town planning Act.)	50
<i>re</i> Inspections, calls made, etc.	8812
Total Inspection and Calls ...	5251
Preliminary Notices served 350	No. complied 388
Statutory " "	38 " 30
Complaints received 121	Verbally 40 In writing 81
Letters written	225
Particulars—Drains tested, Water	208 Smoke 303 Chemical 340
" —Drains found defective	26 " 134 " 162
" —No. of Closets or W.C's	438 No. of W.C's without
	flushing apparatus 222

IMPROVEMENTS.

Drains—Re-constructed		136
" Repaired		162
Soil pipe or ventilation pipes repaired or		
provided		76
Gulley or other traps fixed		345

Water Closets or Closets—

W.C's provided with pan trap and water supply	27
Pan and trap provided...	273
Water supply provided ...	18
Cleansed or pail repaired ...	81
Ventilated ...	1
Cesspools abolished ...	1
Urinals cleansed or water supply provided ...	nil
Sanitary Dustbins provided ...	1
Yards—Paving repaired ...	100
„ provided ...	100
Sinks provided ...	46
Water supply provided to dwelling houses ...	11
Over-crowding abated ...	1
Other Improvements—	
Rooms cleansed ...	52
Walls repaired for dampness ...	83
Floors „ or ventilated ...	26
Roof „ ...	31
Guttering,, ...	37
Rooms disinfected ...	317
Miscellaneous Improvements ...	211

Total Improvements ... 2136

Total Premises Improved ... 602

FOOD INSPECTION.

282 Inspections of Slaughter Houses and food depots have been made during the year.

The slaughter of animals is carried on within the City in 20 private slaughter houses—6 licensed (one in a knacker's yard) and 14 registered—two registered slaughter houses were closed during the year owing to alteration of the premises for other purposes.

I am pleased to report that the Insurance Society formed in 1914, is progressing satisfactorily, and has proved a boon to the butcher when it is necessary to condemn the whole or part of a carcase of a diseased animal.

As to condemnation of deceased carcasses the recommendations of the Royal Commission on Tuberculosis in their report of 1898, are strictly adhered to in cases of beef carcasses, while as to pigs, should the submaxillary gland only be affected the head is destroyed. Should any other part be found diseased the whole carcase is condemned.

The following table classifies the meat seized or surrendered during the year.

TABLE A.

NUMBER OF CASES.	DESCRIPTION OF MEAT.	NATURE OF DISEASE.	WHERE FOUND.	HOW DISPOSED OF.	WEIGHT.	REMARKS.
1	Whole carcase of beef and offal	Tuberculosis	Slaughterhouse	Co. Destructor	424lbs.	Examined by request.
2	" "	Found dead	" lairs	"	760lbs.	" "
3	" "	Milk fever and tuberculosis	Cowshed	"	760lbs.	" "
4	" "	Tuberculosis	Slaughterhouse	"	520 lbs.	Seized in Slaughterhouse.
1	Parts of bullocks carcase & offal	Tuberculosis	Slaughterhouse	Co. Destructor	385lbs.	Examined by request.
2	" "	"	"	"	394lbs.	" "
3	" "	"	"	"	455lbs.	Surrendered during inspection.
4	" "	"	"	"	490lbs.	" "
5	" "	"	"	"	280lbs.	" "
6	" "	"	"	"	320lbs.	Examined by request.
7	" "	"	"	"	152lbs.	" "
4 Sheep 4 Bullocks 1 Pig	Bullocks, sheep, and pigs' livers. 1 bullocks' liver seized in shop.	Various	Slaughterhouse	Co. Destructor	40lbs.	Surrendered during inspection
1-4 cases 2-1 case 3-2 cases 4-1 case 5-1 case 6-1 case	Pigs' head. " " " " "	Tuberculosis " " " " "	Slaughterhouse " " " " "	Co. Destructor " " " " "	41lbs. 4lbs. 20lbs. 14lbs. 10lbs. 25lbs.	Surrendered during inspection. " " " " " "
1 2 3	Pigs' pluck and liver. " "	Cirrhosis Lechy Cysts Tuberculosis	Slaughterhouse " "	Furnace " "	10lbs. 20lbs. 8lbs.	Inspected by request. Surrendered during inspection. "
1 2 3 4 5	Whole carcase of pig and offal. " " " " "	Nephritis Tuberculosis Unwholesome " Tuberculosis	Slaughterhouse " " " "	Furnace " " " "	24lbs. 340lbs. 100lbs. 100lbs. 340lbs.	Inspected by request. Seized in Slaughterhouse. Surrendered after inspection by request " " " "
1 2	Bullocks' lungs. "	Tuberculosis "	Slaughterhouse "	Furnace "	12lbs. 15lbs.	Examined by request. Surrendered during inspection.

NUMBER OF CASES.	DESCRIPTION OF MEAT.	NATURE OF DISEASE.	WHERE FOUND.	HOW DISPOSED OF.	WEIGHT.	REMARKS.
1	Sausage meat.	Decomposition	Shop	Furnace	10lbs.	Surrendered on inspection.
2	Mutton joints.	"	Slaughterhouse	"	10lbs.	Examined by request.
3	2 forequarters of beef, etc.	"	Old Park	"	300lbs.	Examined by request of Military.
4	Mutton pieces.	"	Military Store	"	1,232lbs.	"
5	Beef pieces.	"	Slaughterhouse	"	56lbs.	Surrendered during inspection.
1	Tomatoes.	Unsound	Shop	Furnace	2½lbs.	Seized in Shop.
1	Bullocks' lungs and liver.	Tuberculosis and cysts	Slaughterhouse	Furnace	35lbs.	Surrendered during inspection.
2	"	Tuberculosis	"	"	30lbs.	"
3	"	Actinomycosis	"	"	50lbs.	"
4	"	Tuberculosis and cysts	"	"	35lbs.	"
1	Bullocks' head.	Tuberculosis	Slaughterhouse	Furnace	12lbs.	Seized in Slaughterhouse.
2	"	"	"	"	12lbs.	Surrendered during inspection.
3	"	Actinomycosis	"	"	16lbs.	"
4	"	"	"	"	"	"
1	Bullocks' head, tongue, heart and lungs	Tuberculosis	Slaughterhouse	Furnace	35lbs.	Surrendered during inspection.
2	"	Actinomycosis	"	"	38lbs.	"
3	"	"	"	"	35lbs.	"
4	"	Tuberculosis	"	"	40lbs.	"
5	"	"	"	"	42lbs.	"
1	Bullocks' lungs and heart.	Tuberculosis	Slaughterhouse	Furnace	20lbs.	Surrendered during inspection.
2	"	"	"	"	30lbs.	"
3	"	"	"	"	30lbs.	"
4	"	"	"	"	28lbs.	"
5	"	"	"	"	12lbs.	"
6	"	"	"	"	30lbs.	Examined by request.
7	"	"	"	"	15lbs.	Surrendered during inspection.
8	"	"	"	"	22lbs.	"
9	"	"	"	"	24lbs.	"
10	"	"	"	"	25lbs.	Examined by request.
Total 70					8,289lbs.	

SALE OF FOOD AND DRUGS ACTS.

The number of samples submitted to the Public Analysts was 140 as follows:—

TABLE A.

Samples obtained.	Number.	Genuine.	Adulterated	No. of Samples informally procured.
Milk	72	58	14	6
Butter	20	20	—	20
Margarine	13	9	4	9
Cream... ..	10	8	2	8
Ice Cream	1	1	—	1
Demerara Sugar	2	2	—	2
Coffee	1	1	—	1
Coffee and Chicory	1	1	—	1
Sausage Meat	6	4	2	5
Honey... ..	1	1	—	1
Cocoa	1	1	—	1
Lard	1	1	—	1
Dripping	1	1	—	1
Cheese	2	2	—	2
Treacle	2	2	—	2
Self-raising Flour	2	2	—	2
Flour	2	2	—	2
Bread	2	2	—	2
Total ..	140	118	22	67

MILK STANDARD.

Milk fat 3 per cent. Milk solids 8 per cent. Total 11 per cent. Any Sample under the standard presumed, until proved to the contrary to be adulterated.

7 prosecutions were taken during the year, in 5 cases fines totalling £15 10s. 0d. and £1 1s. 0d costs were imposed, one vendor was ordered to pay 4s. costs, and one case dismissed.

TABLE B.

Article asked for.	No.	Adulteration.	Action taken.
Milk	1	6.5% of Extraneous Water	Vendor prosecuted. Fined 10/- and 10/6 costs.
Milk	6	Deficient in Milk Fat 21.3%	Fined £3 and 10/6 costs.
Margarine	14	Excess of Water 0.96%	No action. Informally procured.
Margarine	31	" " 1.59%	" " " "
Milk	36	Contained only 2.95 of Milk Fat	Vendor informed by letter from Town Clerk.
Margarine	37	Excess of Water 0.76%	" " " "
Margarine	38	" " 1.80%	" " " "
Milk	62	Deficient in Milk Fat 17%	Vendor prosecuted. Ordered to pay costs 4/-
Sausage Meat	77	Contained 52 grains per lb. of Boracic Acid	Vendor cautioned by letter. Informal sample.
Milk	103	Contained only 8.47 of Milk Solids	No action.
Milk	104	Contained only 2.95% of Milk Fat	Vendor informed by letter.
Milk	106	Deficient in Milk Fat	Vendor prosecuted. Fined £5.
Milk	107	3.3% of Extraneous Water	" " Fined £5.
Milk	108	Deficient in Milk Fat 11.8%	" " Fined £2.
Milk	110	Contained only 2.90% of Milk Fat	No action. Same Vendor as sample 106.
Milk	115	Deficient in Milk Fat 7%	" " " 107.
Milk	126	" " 14%	Vendor prosecuted. Summons dismissed.
Milk	130	" " 7%	No action } Informally procured on " Appeal to
Milk	132	" " 5%	No action } Cow " samples.
Sausage Meat	136	Contained 39.2 grains per lb. of Boracic Acid	Vendor informed verbally.

" APPEAL TO COW " SAMPLES.

Milk Sample No. 126 procured about 8.30 a.m. was deficient in milk fat 14 per cent.

The vendor, upon being prosecuted, requested samples to be taken at the time of milking, as he was of the opinion the deficiency was caused by not properly mixing the milk.

I visited the dairy at 6 a.m. saw the cows milked, the milk being poured into a 9 gallon churn in the dairy, a sample was then taken, No. 130, from a tap at the bottom of the churn, which was deficient in milk fat 7 per cent.

Upon the evidence the summons was dismissed, and the dairyman requested to mix his milk before serving his customers.

PUBLIC HEALTH (Milk and Cream) REGULATIONS, 1912.

Milk. No preservatives were found in any of the 72 samples of milk analysed.

4 samples were submitted for examination as to quantity of extraneous dirt, the Analyst reporting the greatest quantity found as being less than 1 grain per gallon. This is very satisfactory.

Cream. 10 samples of cream were analysed, 2 procured formally and 8 informally.

2 samples were " preserved cream " not labelled in accordance with the regulation, procured informally, however, upon purchasing two further samples formally from the same vendors, the packages were properly labelled.

WATER SUPPLY.

The public water supply is supplied by a public company who have extensive water works at Wincheap. The water is derived from below the chalk at a depth of about 500ft, the water is passed through a softening process, then pumped to the service reservoir at St. Thomas's Hill.

There is a constant supply at high pressure throughout the Borough.

A number of houses in the City derive their water supply from pumps, wells, etc., the water from these sources are periodically examined and samples submitted for Analysis.

24 samples were submitted for Analysis during the year.

11 from the Public Supply of good quality.

13 from pumps and wells. 11 of good quality, and two procured from the same source were reported as unsafe for drinking purposes, the owner of the Cottages upon whose land the well was situated, upon being written to, immediately gave instructions for a proper water supply to be provided. An artesian well was sunk to a depth of 120 feet, when a good supply was found.

DAIRIES, COWSHEDS AND MILKSHOPS.

Number on register end of 1915 :—

Cowsheds	...	...	...	...	...	11
Dairies and Milkshops			...	...	...	27
Purveyors	...	...	...	...	...	10
						—
Total	...	...	...	...	...	48
						—

36 inspections were made during the year, also a number of visits while works of repair were in progress.

COWSHEDS.

1 cowshed has been registered during the year, and 1 registration removed the cowshed being used for other purposes.

The cowsheds generally have been found in a clean condition it was necessary to report a breach of the Byelaws in one case, upon informing the occupier of the Council's intention to take further action, the cows were removed, and an apology tendered, also a promise that the shed would not be used for milking cows in future.

The conditions of the yards in some cases requires attention, proper paving and drainage provided, and animals such as pigs excluded from the cowshed yards.

DAIRIES, MILKSHOPS, ETC.

The utensils examined were clean, also the shops generally kept in a clean condition.

Several nuisances were abated at these premises, drains repaired and yard paving improved.

The W.C.'s situated in some of the Dairy yards are hand-flushed, this is very insanitary, each w.c. should be provided with a hand pulled flushing cistern also a properly covered sanitary dustbin.

No case of Tuberculosis of the Udder was reported during the year.

COMMON LODGING HOUSES.

No. on register 4.

3 of the premises are registered yearly one being on the Register before the Amendment Act was adopted.

No complaints were received during the year.

The yearly consideration by the Local Authority tends to keep the premises in good order as to repair and conduct.

AMERICAN GOOSEBERRY MILDEW, (FRUIT) ORDER 1915.

One case of diseased gooseberries was dealt with, there being a small quantity exposed for sale and upon being requested to destroy the diseased gooseberries, the owner immediately removed and destroyed them on the fire.

In conclusion, sincere thanks are due to the chairman (Alderman W. Wiltshier Esq.) and the Members of the Sanitary Committee, for their support during the year. Several matters have been reported during the year which, under the present circumstances the Committee suggested had better be considered after the war.

I am, Gentlemen,

Your obedient Servant,

SAMUEL JEFFERY.

Cert. Royal Sanitary Institute,

Meat Insp. „ „ „ „

Advd. Hygiene Board of Education,

Member Sanitary Inspectors' Association.

