Report of the City Health Department / City of Winnipeg.

Contributors

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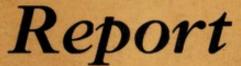


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City of Winnipeg



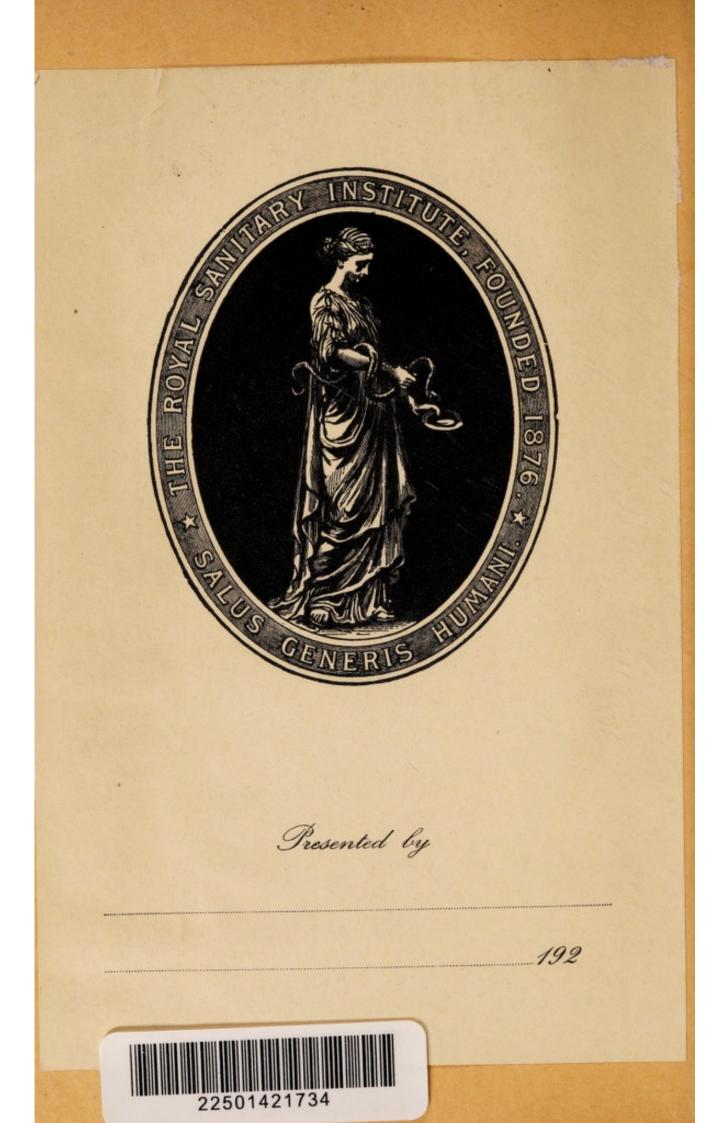


of the

City Health Department



FOR THE YEAR ENDING 31st DECEMBER

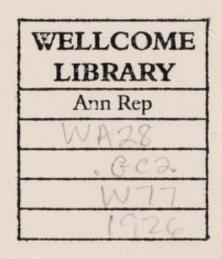


CITY OF WINNIPEG

REPORT

of the City Health Department

FOR THE YEAR ENDING 31st DECEMBER 1926



COMMITTEE ON HEALTH 1926

Alderman R. J. Shore, Chairman

Alderman A. H. Pulford

Alderman A. R. Leonard

Alderman F. H. Davidson

Alderman T. Boyd

Alderman T. Flye

Alderman W. B. Simpson

Alderman J. Blumberg

Alderman J. A. Barry

His Worship Mayor R. H. Webb (ex-officio member) Digitized by the Internet Archive in 2019 with funding from Wellcome Library

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STAFF (December, 1926)

Medical Health Officer

A. J. Douglas, M.D.

Laboratory

Bacteriologist—M. S. Lougheed, M.D. Assistant—Miss M. Wilson. Laboratory Attendant—H. Robinson.

District Physicians

W. Turnbull, M.D. O C. Dorman, M.D. E. H. Alexander, M.D.

Sanitary Inspections Division

Chief Inspector—E. W. J. Hague. Tenement and Supervising Inspector— A. Officer. Inspector—S. J. Scheving. "O. S. Oliver. "B. C Brough.

J. McHardy.

....

2.2

A. Barclay.

J. Shepherd.

Smoke and Supervising Inspector— P. Pickering Supervising Inspector—D. Little. Inspector—J. Foggie. "R. McQuillan. "A. Aitken. "F. C. Austin Inspectors' Clerk—W. Hanby, Clerk—G. Duffield,

Communicable Diseases Division

Chief Inspector-W. J. T. Watt. Inspector-G. Hanby.

	A. Paull.
	C. H. Hargrave.
**	H. H. Marshall.
	H. G. Triggs.*

Tuberculosis Nurse—Miss K. Vanetta. " Miss A. G. Luke. " Miss H Smyth, Record Clerk—G. Moore. Clerk—S. Steele.

*(Leave of absence)

Division of Records and Statistics

Secretary—A. G. Lawrence. Stenographer-Clerk—Miss M. M. Ryan Stenographer-Clerk—Miss E. S. Halliday Stenographer-Clerk—Miss E. Fraser.

Bureau of Child Hygiene

		Manager-A.	G. Lawrence.
Nurse-	-Miss	M. M. Wonnacott.	Nurse-Miss M. Wilkins.
	Miss	A. J. Attrill.	" Miss H. Carter.
"	Miss	L. Spratt.	" Miss C. Thom.
.,,	Miss	C. Maddin.	" Mrs. C. E. Smith.
	Miss	A. Moore.	Dietitian—Miss A. Graham.
**	Miss	C. Munro	Assistant-Mrs. J. McDonald
**	Miss	L. A. Schwalm.	" Mrs. H. Twist
**	Miss	E. A. Bennett.	" Mrs. A. Gibson.
"	Miss	M. Harper.	Caretaker-H. Steel.
• • •	Miss	M. W. Macrae.	

Attending Physician—R. F. Rorke, M.D. Attending Physician—F. G. Schwalm, M.D.

Dairy Division

Chief Inspector—E. C. Brown. Creameries Inspector—F. Lutley. Inspector—T. J. Booth '' J. M. Jackson.

Food Division

Chief Inspector—A. Rigby, Inspector—A. W. Foote. "G. R. Mines.

Report of the Medical Health Officer

City Health Department, Winnipeg, Man., March 29th, 1927.

Chairman and Members of the Committee on Health.

Gentlemen:

I have the honor to submit for your consideration the report of the Health Department for the year 1926. This includes the reports of the heads of divisions and a statement of the cost of the year's work.

Statistics

The number of deaths, excluding stillbirths, was 1.698. Assuming the population to be 197,125 (City Assessor's figures), this gives a gross death rate of 8.61. This is very nearly the same as the rate of last year, which was 8.30 and the lowest we have recorded.

The number of deaths in children under one year of age was 314, giving a mortality rate of 70.65 per 1,000 living births. This is very slightly higher than last year's rate which was 68.

There has been very little variation in these rates for the past three years; in 1924 the rate was 67.8. This would seem to indicate that if we are to get these figures reduced, more attention must be paid to pre-natal care and instruction, as at present the majority of our infant deaths occur during the first week after birth and are due to such causes as prematurity, congenital defects and inanition.

The number of births, excluding stillbirths, was 4,444, giving a birth rate of 22.54 per 1,000 population. The birth rate continues to fall; in 1925 it was 23.73; in 1924, 24.44; in 1920 it was 32.06.

I do not attempt to offer an explanation of this decline, nor have I heard a satisfactory one. It should be borne in mind, however, that the same falling off is apparent in many other places; indeed it seems to be a condition that obtains to a greater or less extent throughout the whole country. A somewhat striking fact is that, notwithstanding an increase in the marriage rate which was 12.01 per 1,000 population in 1926, against 11.46 in 1925, the birth rate continues to fall.

Details regarding births and deaths will be found in the report of the Statistician; these figures extend over the period of which we have a record, and should be studied in order to obtain an appreciation of the variations which have taken place over a lengthy interval of time.

Financial Statement for the Year 1926 Departmental Expenditures

C-1 Administration and Statistics (Controllable)-

C-2

(a)	Personal Services\$11	,350.30
(b)	Outside Services	172.78
(c)	Material, Supplies and Repairs	327.24
(d)	Equipment, Additions and Replace-	
	ments	112.72
(f)	Unforeseen Expenditure	250.00

\$ 12,213.04

Bacteriological Laboratory (Controllable)-	-
(a) Personal Services\$	6,036.00
(b) Outside Services	29.00
(c) Material, Supplies and Repairs	581.59
(d) Equipment, Additions and Replace-	
ments	19.49
(e) Fuel, Water, Light and Power	114.67

\$ 6,780.75

C-3 Treatment and Prevention of Communicable Diseases-

C-3-1	Acute Communicable Diseases (Controll	able) —
(a)	Personal Services\$11	967.86
(b)	Outside Services	166.00
(c)	Material, Supplies and Repairs	451.50
(d)	Equipment, Additions and Replace-	
	ments	281.28

\$ 12,866.64

\$ 5,515.57

C-3-3 Smallpox and Diphtheria Prevention (Controllable)-

(b) Outside Services\$ 2,214.79

(c) Material, Supplies and Repairs 881.37

\$ 3,096.16

	Automobile Services (Controllable)— Outside Services\$ Material, Supplies and Repairs	260.18		
			\$	866.30
	Total Controllable		.\$	22,344.67
C-3-5	Fixed Charges on Debenture Debt (U	ncontrolla	able	e)—
(i)	Interest\$	600.00		
			\$	600.00
	Total Treatment and Prevention of C able diseases			22.944.61
			• •	,• • •
C-4 Sanit	ary Inspection (Controllable)-			
(a)	Personal Services\$2	29,904.00		
(b)	Outside Services	39.75		
	Material, Supplies and Repairs	368.99		
(d)	Equipment, Additions and Replace-			
	ments	834.23		
			\$	31,146.97
C-5 Food	and Dairy Inspection (Controllable)-			
C-5-1	Dairy Inchastion			
	Dairy Inspection-	7 810 00		
(a)	Personal Services\$			
	Personal Services\$ Outside Services	7,810.00 546.16 211.93		
(a) (b) (c)	Personal Services\$ Outside Services	546.16		
(a) (b) (c)	Personal Services\$ Outside Services Material, Supplies and Repairs	546.16		
(a) (b) (c)	Personal Services\$ Outside Services Material, Supplies and Repairs Equipment, Additions and Replace-	$\begin{array}{c} 546.16\\ 211.93\end{array}$	\$	8,847.89
(a) (b) (c) (d)	Personal Services\$ Outside Services Material, Supplies and Repairs Equipment, Additions and Replace- ments	$\begin{array}{c} 546.16\\ 211.93\end{array}$	\$	8,847.89
(a) (b) (c) (d) C-5-2	Personal Services\$ Outside Services Material, Supplies and Repairs Equipment, Additions and Replace- ments	546.16 211.93 279.80	\$	8,847.89
(a) (b) (c) (d) C-5-2 (a)	Personal Services\$ Outside Services Material, Supplies and Repairs Equipment, Additions and Replace- ments Food Inspection— Personal Services\$	546.16 211.93 279.80 6,666.00	\$	8,847.89
(a) (b) (c) (d) C-5-2 . (a) (b)	Personal Services	546.16 211.93 279.80 6,6666.00 36.00	\$	8,847.89
(a) (b) (c) (d) C-5-2 . (a) (b) (c)	Personal Services	546.16 211.93 279.80 6,666.00	\$	8,847.85
(a) (b) (c) (d) C-5-2 . (a) (b) (c)	Personal Services	546.16 211.93 279.80 6,6666.00 36.00	\$	8,847.89
(a) (b) (c) (d) C-5-2 . (a) (b) (c)	Personal Services\$ Outside Services Material, Supplies and Repairs Equipment, Additions and Replace- ments Food Inspection— Personal Services Material, Supplies and Repairs Equipment, Additions and Replace-	546.16 211.93 279.80 6,6666.00 36.00 86.11	49 49	8,847.89

C-6 Child Welfare (Controllable)			
C-6-1 Babies' Milk Depot-			
(a) Personal Services\$	4,312.57		
(b) Outside Services	3,394.29		
(c) Material, Supplies and Repairs	2,647.03		
(e) · Fuel, Water, Light and Power	943.02		
		ş	11,296.91
C-6-2 Visiting Nurses-			
(a) Personal Services\$			
(c) Material, Supplies and Repairs	73.96		
(d) Equipment, Additions and Replace- ments	599.08		
ments	020.00		
· · · · · · · · · · · · · · · · · · ·		\$	20,103.32
Total Child Welfare	· · · · · · · · · ·	.\$	31,400.23
C-7 Medical Relief (Controllable)			
C-7-1 District Physicians-			
(b) Outside Services	967.00		
(c) Material Supplies and Repairs			
Total Medical Relief		. \$	1,550.39
Gross Departmental Expenditure		. \$1	121,870.75

REVENUE

(Credited to City's Revenue Account)

Police Court Fines and Costs\$	224.25
Fees for Fumigation	18.99
Fees for Laboratory Work	232.50
Sale of Infants' Feedings at Milk Depot	1,428.40

\$ 1,904.14

Net Departmental Expenditure\$119,966.61

Cost Per Capita

(Population 197,125)

Communicable Diseases

Full morbidity and mortality rates from notifiable diseases will be found in the report of the Division of Communicable Diseases.

The total number of cases of typhoid fever reported during the year was 66 with 8 deaths. In 1925 there were 42 cases and 6 deaths. Of these 66 cases, 11 were admitted from outside points to our local hospitals for treatment; of this number 4 died. This high mortality percentage once more emphasizes the danger which attends the moving of persons acutely ill with typhoid from place to place. It is not an uncommon incident for patients suffering from this disease to be brought into the City by train or motor from places many miles distant, only to have them die, sometimes shortly after their arrival. We are of the opinion, and have been for a long time, that these cases can be cared for with much less risk to the patient by attending him where he is taken ill, than by subjecting him to the disturbance inseparable from a long train journey or motor ride. Thirteen residents contracted the infection while travelling outside the City. Fortytwo cases were contracted in the City. Some of the outstanding features of the year's typhoid were the following:-

A young man contracted typhoid outside the City; on his return home he delayed getting medical attention and advice for a considerable time, being unaware of the nature of his complaint. His father and mother, the only other members of the household, became infected with the disease. The young man and the father died.

An outbreak in which milk was the carrier occurred; fifteen cases comprised this group. Infection was attributed to a carrier. Following the appearance of cases on this milk route, samples of blood, faeces and urine were taken from the persons resident at the dairy. Results were negative with the exception of one individual who gave a positive blood and a history of having had typhoid some fifteen years previously. This man's stools and urine never gave a positive result. There was another man employed at the dairy whose record was interesting. This individual had worked at another dairy some time previously and during his employment typhoid appeared on the milk route. He had worked for a farmer in the country and after his arrival typhoid developed on the farm. He had been working for the dairyman, on whose route the outbreak we are now speaking of occurred, a comparatively short time when cases appeared among the customers; the unusual thing about this individual was that despite many tests his blood was always negative to the Widal reaction, and his faeces and urine always gave negative cultures for the typhoid organism. He denied having had the disease. We examined quite a number of specimens each time with the same result. We were anxious to get him to go to hospital where he could be kept constantly under observation for a month, to see if the organism could not be found, but he would not consent to do this. In our opinion this man was an intermittent carrier. The usual measures were taken with this outbreak, the milk, which had been delivered raw, was pasteurized, and the persons whom we considered might be carriers had their services discontinued at the dairy.

This outbreak emphasizes the potential dangers associated with the use of raw milk. The dairy which was affected in this instance was a particularly well conducted one. In my opinion the road to safety lies in pasteurization; the greater the proportion of our milk supply that is pasteurized, the less the danger from milk borne diseases.

The remainder of the cases originating in the City were scattering in their distribution, and unconnected with a demonstrable source of infection.

Smallpox prevailed to some extent throughout the year; it is always a source of regret to have to report the presence of this preventable disease year after year. Prevalence was not extensive it is true, but the disease seems to have established a foothold in the North-West and we never seem to be able to go any length of time without a case being brought to light. During the year there were 43 cases and two deaths; in 1925 we had 41 cases and no deaths. With the exception of September and October, smallpox was reported every month in the year. Nine persons contracted the disease outside the City. Eight cases were unrecognized and were discovered in tracing back from known cases.

The most interesting event in the year's smallpox history was the incident of a local cattle buyer who had been travelling in South-Eastern Manitoba where the severe type of smallpox was present. This man contracted and developed the disease while out in the country on a cattle buying expedition. He was desperately ill but managed to get on a train bound for Winnipeg. While on the train he attracted the attention of the conductor who was able to get a physician to see him at one of the stations at which the train stopped. The physician diagnosed smallpox. The conductor wired to the railway authorities in the City that he was bringing in a case of smallpox, and the railway people notified the Health Department. The patient was found to be suffering from haemorrhagic smallpox, and was removed to hospital where he died two days later. The passengers on the train were held and all were vaccinated. A record was kept of those who remained in the City and these were kept under observation throughout their period of incubation. Those who did not remain in the City, and most of these came from the same district where the cattle buyer had been operating, were allowed to return home; their local health officers were advised of their exposure and the suggestion made that they be kept under close observation. Fortunately all the persons in the coach with the patient were well vaccinated and it is satisfactory to be able to report that no second case developed.

There was another case of the severe type which terminated fatally about two months later. In this instance the original case was a vaccinated man whose immunity had not become completely exhausted and he suffered from a modified type of the disease, so mild that the case was not identified. However, three unvaccinated individuals in the house where he resided contracted smallpox and one of these died. The source of infection in this case was the same district where the cattle buyer had been visiting. No spread took place from this focus. These were the only instances of the severe type that came to our notice during the year and had the same point of origin. The other cases we had to deal with were uniformly mild.

A student in an educational institution, while suffering from smallpox, travelled to Brandon with a party of students. On his return to the City his case was diagnosed and he was sent to hospital. Five of his companions contracted the disease. Their homes contributed ten cases; those most directly in contact with the patient in these instances were the ones attacked.

Vaccination status of the patients was as follows. Eight had vaccination marks; none of these had been successfully vaccinated within seven years. The remaining thirty-five were unvaccinated.

Chickenpox prevailed extensively during the year—seven hundred and seventy cases were notified with one death. A death from chickenpox is a very unusual thing; in this instance it was due to a complication of abscess and pneumococci peritonitis.

Many cases of chickenpox were brought to our notice through the school nurses. The affected children had no medical attendant and were discovered as a result of their being absent from school. The department kept a close watch on this disease, checking the diagnosis in all cases to make sure that smallpox was not being wrongly diagnosed.

Two thousand, eight hundred and forty-four cases of measles were reported with eleven deaths, giving a death rate of 5.5 per 100,000 population and a mortality rate of .3 per 100 cases. During the past four years measles has been very prevalent. We have had during this period 10,861 cases and 32 deaths; this gives a mortality rate for the four year period of .3 per 100 cases.

Figures for the past twelve years, divided into four year periods, show a decline in fatality from this disease. They are as follows:

		Cases	Deaths
1923-26	(incl.)	 .10,861	32
1922-19	"	 . 4,747	38
1918-15	,,	 . 8,015	55
1914-11	.,	 . 5,982	78

This reduction in mortality seems rather a hopeful feature of the measles situation; it would appear to indicate that people are beginning to appreciate that measles is not a trifling affection, and are taking better care of their children when they are attacked, in the way of providing medical attention, keeping the patient in bed and being on the look-out for the appearance of complications. I do not see any other explanation that can account for this marked and very satisfactory reduction in the death rate. During the past year we used every means of control in our power. We kept cases isolated, or hospitalized them, contacts were kept under observation and excluded from school attendance, the school authorities were advised to look out for children who might be developing the disease, literature was distributed—but with it all, when measles gets a start among a non-immune population. measures that can at present be employed to restrict its spread do not seem to be crowned with any marked degree of success.

Six hundred and seventy-six cases of scarlet fever were notified with eight deaths. The type remains mild with a mortality rate of 1.1 per 100 cases. The scarlet fever epidemic index for the year gave warning that we might expect a rise in June; this fell to a point near 75 per cent. of the normal expectancy, then it showed an upward tendency and in this position we find ourselves at the end of the year.

The type being mild we found control difficult and many unrecognized cases were brought to light by checking back. There were three isolated small outbreaks having schools for their centre and contact the mode of transmission. No milk borne outbreak occurred.

In one instance, house to house inspection of a district where cases were appearing brought unrecognized cases to light. The school nurses were of great assistance in keeping children under surveillance and particularly in watching for and excluding from school attendance, pupils suffering from abnormal conditions of the throat.

Secondary cases numbered 18; missed cases totalled 78.

Up to the present we have not attempted to immunize school children against scarlet fever as a routine measure.

Diphtheria cases numbered 554 with 20 deaths. There were 86 cases from outside the City and of this group six died. The diphtheria rate continues to improve and the effect of the prophylactic work which has been going on steadily for the past three years is appearing. When one bears in mind that for eight successive years our cases averaged 1,200 per year and the gross death rate for these years was 27.6 per 100,000 population, there is cause for satisfaction in the showing of the last three years when the average stands at 650 cases and a death rate of 11.5. This rate can be reduced still further by continued effort. It is sad to have to relate again that nearly every death which occurred during the past year was associated with failure to recognize the disease early and institute proper treatment. There are still too many people who do not seem to appreciate the danger of allowing sore throats in children to go without attention until the condition becomes desperate. It is surprising in how many of these cases the parents thought that the child was suffering from mumps.

Twenty-two unrecognized cases and ninety-six carriers were discovered in the course of the year's work. The percentage of secondary cases was rather high, being about ten per cent. of the notified cases.

Preventive inoculation with toxoid was carried on as formerly in the City schools. The number of children receiving this was 2,764.

There was a notable increase in the demand for toxoid by physicians for use among their patients and for use in institutions for children.

Antitoxin distributed during the year totalled two million, eight hundred and seventeen thousand units. Three hundred and thirtythree dollars was collected from persons in a position to pay for this.

The tuberculosis situation does not show much change. Two hundred and thirty-two cases of pulmonary tuberculosis were notified with 88 deaths. Deaths from tuberculosis of all forms numbered 116. These figures show an increase over 1925, when 183 cases were reported and 81 deaths, from the pulmonary type. The increase in cases within the City is likely the result of the activity of the various chest clinics. The increase in deaths is not so high when outside cases are deducted as it leaves only a difference of three, viz: 71 to 68.

The sources from which the cases were reported are as follows:

Hospital Outdoor Clinics				 					59
King Edward Memorial Hospita	1								62
Ninette Sanatorium									31
Health Department Laboratory				 					18
Physicians									9
Death Registration									20
Non-residents									14
St. Roch's Hospital, St. Boniface	е.		-						19

The striking thing about these figures is the small number of reports made by physicians; it would appear to us that there must be a considerable number of cases in the City of which we have no record. This supposition is borne out by the fact that death registration was the first intimation we had of the existence of twenty cases during the past year. It is quite possible that many of these cases whose existence is unknown to us are under supervision and are occasioning no harm, but there may be some which are quite otherwise and it is of importance that we should know of them.

Tuberculosis can be reduced very materially from where it stands to-day and one of the ways that this can be done is by the early recognition, care, and education of those who suffer from it. Education also of the public is of the greatest assistance here and every agency that helps to bring this about deserves the warmest encouragement.

The work of the clinics at the Winnipeg General Hospital and the Children's Hospital went on as usual throughout the year and rendered fine service. Nurses from this Department attend all clinics at these hospitals. They look after the preparation of the patients, make up the history charts, assist the examining physicians, do follow-up work and keep records of patients. The clinic held at the King Edward Memorial Hospital is conducted by the staff of that institution.

We distributed supplies as in former years; these included milk, refills, handkerchiefs, disinfectants and certain medical supplies.

Whooping cough was somewhat prevalent during the year, but shows a considerable decline from 1925, the figures being four hundred and twenty cases with six deaths for 1926 and six hundred and eightynine cases and fourteen deaths for 1925. We had difficulty with get-

ting notification of this disease; many of the patients had no physician and were discovered through the Medical Inspection of Schools. The indifference of some people to the dangers of this disease is remarkable; they do not seem to mind their own children having it, nor to care if they hand it along to their neighbours' children. This is one of the chief obstacles that stand in the way of control. We have tried for years to point out that whooping cough is a dangerous affection, particularly among young and delicate children, and that every effort should be made to curtail its spread. Until a better appreciation of this takes place on the part of some of our citizens, we are going to continue to have fatalities from this cause. As in past years, we issued vaccine for treatment. This seemed to be of decided benefit, especially if given early.

An outstanding event of the year was ap outbreak of mumps of large dimensions. This was a continuation of the outbreak which commenced late in 1925. The number of cases that came to light was fifteen hundred and six. No doubt there were many more, as the majority of those affected had no physician and were discovered through the Department of Medical Inspection of Schools.

Prevalence was greatest during the first months of the year, the peak being reached in March, with four hundred and twenty cases. Subsidence took place rapidly after the closing of the schools for the summer holidays. This outbreak illustrates the ability of one of the minor infactions to assume epidemic proportions. We have never had a similar experience with mumps in this City. It gave the Department considerable trouble and was the cause of a great many days of school attendance being lost by pupils. Indeed the disease did not by any means confine itself to school children, but claimed for its victims quite a number of young adults. One or two offices employing a large number of young men and women had quite a proportion of their staffs incapacitated at one time.

Why this disease should assume epidemic proportions is something that I cannot explain. Possibly increased virulence of the organisms may have been a factor. The mode of infection was likely direct or indirect contact. So far as I am aware, no serious consequences resulted to any of those affected, other than loss of time and the pain and inconvenience of the attack. Few cases with complications came to our notice. Measures of control did not seem to be very effective; these included isolation of the patient until all glandular enlargement had subsided, and concurrent disinfection.

Encephalitis lethargica still prevails to a limited extent. Seven cases were notified with seven deaths. None of these cases were associated with any known focus of infection.

No case and no death from anterior poliomyelitis was recorded for the year, rather an unusual record.

Of the thirty-one influenza deaths recorded, twenty occurred during the first four months of the year. The ages range from 2 months to 91 years, and are summarized as follows:

	(Cases	3							1	8						1	- 22					
								N	A	al	e	s			F	e	n	18	11	e	s		
ges:																							
U	nder	one	year	r														,					
1	year	to	2	years																			
3	years	s to	4	years																			
10	,,	,,	20	"																			
21	**	••	30	"			•																
31	"	**	.40	,,																			
41	**	,,	50	"																			
51	,,	••	60	**																			
61	,,	••	7.0	**																			
71	"		80	"																			
81	and o	over																					

Of these, 6 were non-residents.

Medical Relief

District physician calls for the year totalled two hundred and ninety-eight as compared with three hundred and forty-three for the preceding year. This is the lowest number of calls for any one year since the inauguration of this service in 1912. Calls at the office totalled five hundred and two as compared with four hundred and sixty-nine for the year 1925.

Vaccinations performed, including two thousand and seventy-five done in the Laboratory, City Hall, totalled four thousand, one hundred and eleven. This shows an increase of almost one thousand, as last year's figures stood at 3,140.

Through the Nurses of the Margaret Scott Nursing Mission we were advised of many cases of Measles and Mumps, amongst the poorer citizens, often, if not always, unable to secure other advice and occasionally other infections were brought to light in a similar manner. Many of the calls coming to this office were visited by the Nurse from this Mission. The Mission has recorded one hundred and sixty such calls during 1926. This service has been of great assistance and we wish to express our appreciation of it.

Since the month of May a numerical record of all school certificates issued from the office has been kept. For the seven months ending December 31st, 1926, two thousand, one hundred and forty-six certificates were issued.

Insulin

Beginning September 1st, 1926 the Department undertook the distribution of Insulin to diabetic patients who had previously been supplied by the Provincial Board of Health and, in the majority of instances, were unable to pay for it.

The amount distributed for the four months, ending December 31st, 1926, was thirty-three thousand, five hundred units. The number of patients receiving this benefit being eleven.

Thirty-six dollars and seventy cents was the amount collected from those who were in a position to pay.

Municipal Hospitals

The following summary submitted by the Municipal Hospitals shows the number of cases of communicable diseases admitted during 1926, together with number of deaths occurring at these institutions.

Diseases	Cases	Deaths	Percentage
Diphtheria	410	15	3.66%
Diphtheria Carriers	38	-	-
Scarlet Fever	433	8	1.85%
Measles	405	7	1.73%
German Measles	. 16	-	•
Erysipelas	55	4	7.27%
Mumps	216	-	-
Whooping Cough	40	-	-
Smallpox	45	2	4.44%
Chickenpox	27	-	-
Miscellaneous	380	8	2.30%
-			
Totals	2,065	44	2.13%
Died within 36 hours		19	
Corrected rate			1.21%

King George Hospital

King Edward Memorial Hospital

	Cases	Deaths	Pércentage
Tuberculosis	 159	44	32.45%

Report of the Clinic for Venereal Diseases 705 Boyd Building, Winnipeg

The following report was furnished through the courtesy of Dr. Pullar, physician in charge of the Provincial Government's Clinic for Venereal Diseases.

During the year 1926, 1,669 patients were examined. Of these, 1,266 were cases of venereal infection, who received treatment, the balance being non-venereal patients, who were admitted for examination. Four hundred and eighty-six were cases of Syphilis and 780 were cases of Gonorrhoea.

There were 276 new cases of Syphilis and 606 new cases of Gonorrhoea, the remainder having been carried forward from the previous year.

Syphilis—Of the 486 suffering from Syphilis, 308 were male and 172 female; 6 children under twelve years of age. Six hundred and eleven blood examinations for Syphilis were made during this time and 7,203 treatments given.

Gonorrhoea—Of the 780 cases of Gonorrhoea, 602 were male and 178 female. Thirteen hundred and thirty-one smears were examined for Gonorrhoea, and 13,056 treatments were given.

Treatments-Gonorrhoea		 			 						13,056
Syphilis		 						 			7,203
Non-Venereal		 									1,484

17,323

Report of Patients Treated in the Provincial Gaol

There were 57 new patients treated for veneral diseases during 1926. Of these 35 were Syphilis and 22 Gonorrhoea. Two hundred and seventy-eight treatments were given for Syphilis and 1,750 for Gonorrhoea.

Seven hundred and seventy-nine blood examinations were made for Syphilis.

Respectfully submitted,

(Signed) JAS. PULLAR, M.D.

Legislation Enacted

Dominion-

No Legislation affecting this department.

Provincial-

A Regulation of the Provincial Board of Health requiring that all advertising of milk, cream, or other dairy products intended for sale, appearing on labels, containers, or vehicles for conveying the same, shall be subject to the approval of the Chairman of the Provincial Board of Health, otherwise permits for sale may be withdrawn.

The object of this regulation is to ensure that all advertising as to the quality of the milk sold, the plant, the cows, or the methods employed shall be in accordance with the facts.

Various Regulations of the Minimum Wage Board, respecting sanitary conditions in several kinds of workshops, were repealed, enacted or revised.

The City of Winnipeg-

By-law No. 12046, an amendment to the Building By-law. The By-law permits the conversion of 3-story frame buildings to tenement use, which was previously prohibited. In view of the large number of such houses at present unlawfully occupied as tenements, and the desirability of having such houses properly fitted up for such use, the By-law was a step in the right direction, but the sections of the By-law respecting sanitation do not go as far as we would like to see them go. It is extremely important that if these houses now illegally occupied as tenements are to be recognized as such, any by-law enacted with this object shall be so drafted as to vastly improve the conditions which now obtain in such houses.

Legislation Required

The most important health legislation required in the City at present is a by-law which will regulate houses of the class referred to above. Action in this matter has been deferred for years with

the result that conditions in such houses are gradually getting worse. A by-law requiring that such alterations and improvements shall be made to these houses as will render them reasonably suitable for tenement use and which will bring them under some system of registration or licensing is desirable.

Installation of Plumbing

A few extensions were made to the sewers and water mains and we were able, upon completion of these, to serve some 48 notices to instal plumbing. In addition to this, of course, all new buildings erected during the year were properly connected and plumbing installed therein.

Eighteen outside closets were removed, but 4 new closets were constructed in connection with houses built on streets without sewers, so that the net reduction was 14. Some of the plumbing notices served have not yet expired.

December 31st, 1925

December 31st, 1926

Brick Pits 318	Brick Pits 303
Earth Pits 2	Earth Pits 3
Total 320	Total 306

Since 1905 the reduction has been as follows:

June 30, 1905 $6,153$ 186 \dots $6,339$ December 31, 1905 $3,182$ 80 $1,020$ $4,912$ June 30, 1906 $2,255$ 747 $1,325$ $4,327$ December 31, 1906 $1,105$ 662 $1,626$ $3,933$ December 31, 1907 80 201 $1,535$ $1,816$ December 31, 1908 25 103 $1,492$ $1,625$ December 31, 1909 53 $1,432$ $1,485$ December 31, 1910 52 $1,300$ $1,352$ December 31, 1911 477 $1,171$ $1,218$ December 31, 1912 31 $1,014$ $1,045$ December 31, 1913 38 836 877 December 31, 1914 9 447 456 December 31, 1915 14 504 518 December 31, 1916 9 447 456 December 31, 1917 11 442 453 December 31, 1918 648 666 December 31, 1919 1422 433 December 31, 1916 11222 113222 December 31, 1918 12322 113222 December 31, 1920 113232 1329 December 31, 1921 1339 1400 December 31, 1923 1352 December 31, 1924 2339 3411 December 31, 1924 2339 3411 December 31, 1925 2322 2322		Box Closets	Earth Pits	Brick Pits	Total
June 30, 19062,2557471,3254,327December 31, 19061,1056621,6263,393December 31, 1907802011,5351,816December 31, 1908251031,4921,625December 31, 1909531,4321,485December 31, 1910521,3001,352December 31, 1910521,3001,352December 31, 1911471,1711,218December 31, 1912311,0141,045December 31, 191338836877December 31, 191418648666December 31, 191514504518December 31, 19169447456December 31, 191711442453December 31, 19185421426December 31, 19201388389December 31, 19211399400December 31, 19221388389December 31, 19232339341December 31, 19242339341December 31, 19252318320	June 30, 1905	6,153	186		6,339
December 31, 1906 $1,105$ 662 $1,626$ $3,393$ December 31, 1907 80 201 $1,535$ $1,816$ December 31, 1908 25 103 $1,492$ $1,625$ December 31, 1909 53 $1,432$ $1,485$ December 31, 1910 52 $1,300$ $1,352$ December 31, 1911 52 $1,300$ $1,352$ December 31, 1912 477 $1,171$ $1,218$ December 31, 1912 31 $1,014$ $1,045$ December 31, 1913 38 836 877 December 31, 1914 38 648 666 December 31, 1915 14 504 518 December 31, 1916 9 447 456 December 31, 1917 11 442 453 December 31, 1918 5 421 426 December 31, 1919 6 438 444 December 31, 1920 1 399 400 December 31, 1921 1 399 400 December 31, 1923 1 351 352 December 31, 1923 2 339 341 December 31, 1923 2 339 341 December 31, 1925 2 2 318 320	December 31, 1905	3,182	80	1,020	4,912
December 31, 1907802011,5351,816December 31, 1908251031,4921,625December 31, 1909531,4321,485December 31, 1910521,3001,352December 31, 1911521,3001,352December 31, 1912471,1711,218December 31, 191338836877December 31, 191438836877December 31, 191514504518December 31, 19169447456December 31, 191711442453December 31, 19185421426December 31, 19201399400December 31, 19211388389December 31, 19231351352December 31, 19232339341December 31, 19252318320	June 30, 1906	2,255	747	1,325	4,327
December 31, 1908 25 103 $1,492$ $1,625$ December 31, 1909 \dots 53 $1,432$ $1,485$ December 31, 1910 \dots 52 $1,300$ $1,352$ December 31, 1911 \dots 47 $1,171$ $1,218$ December 31, 1912 \dots 31 $1,014$ $1,045$ December 31, 1913 \dots 38 836 877 December 31, 1914 \dots 18 648 666 December 31, 1915 \dots 14 504 518 December 31, 1916 \dots 9 447 456 December 31, 1917 \dots 11 442 453 December 31, 1918 \dots 5 421 426 December 31, 1919 \dots 6 438 444 December 31, 1920 \dots 1 399 400 December 31, 1921 \dots 1 351 352 December 31, 1923 \dots 1 351 352 December 31, 1923 \dots 1 339 341 December 31, 1924 \dots 2 339 341 December 31, 1925 \dots 2 318 320	December 31, 1906	1,105	662	1,626	3,393
December 31, 1909 \dots 531,4321,485December 31, 1910 \dots 521,3001,352December 31, 1911 \dots 471,1711,218December 31, 1912 \dots 311,0141,045December 31, 1913 \dots 38836877December 31, 1914 \dots 18648666December 31, 1915 \dots 14504518December 31, 1916 \dots 9447456December 31, 1917 \dots 11442453December 31, 1918 \dots 5421426December 31, 1919 \dots 6438444December 31, 1920 \dots 1309400December 31, 1921 \dots 1351352December 31, 1923 \dots 1351352December 31, 1924 \dots 2339341December 31, 1925 \dots 2318320	December 31, 1907	80	201	1,535	1,816
December 31, 1910 \dots 521,3001,352December 31, 1911 \dots 471,1711,218December 31, 1912 \dots 311,0141,045December 31, 1913 \dots 38836877December 31, 1914 \dots 18648666December 31, 1915 \dots 14504518December 31, 1916 \dots 9447456December 31, 1917 \dots 11442453December 31, 1918 \dots 5421426December 31, 1919 \dots 6438444December 31, 1920 \dots 1309400December 31, 1921 \dots 1351352December 31, 1922 \dots 1351352December 31, 1923 \dots 2339341December 31, 1925 \dots 2318320	December 31, 1908	25	103	1,492	1,625
December 31, 1911471,1711,218December 31, 1912311,0141,045December 31, 191338836877December 31, 191418 648 666 December 31, 191514 504 518 December 31, 19169 447 456 December 31, 191711 442 453 December 31, 19185 421 426 December 31, 19196 438 444 December 31, 19201 399 400 December 31, 19211 388 389 December 31, 19221 351 352 December 31, 19232 339 341 December 31, 19242 318 320	December 31, 1909		53	- 1,432	1,485
December 31, 1912 \dots 31 $1,014$ $1,045$ December 31, 1913 \dots 38 836 877 December 31, 1914 \dots 18 648 666 December 31, 1915 \dots 14 504 518 December 31, 1916 \dots 9 447 456 December 31, 1917 \dots 11 442 453 December 31, 1918 \dots 5 421 426 December 31, 1919 \dots 6 438 444 December 31, 1920 \dots 1 402 403 December 31, 1921 \dots 1 399 400 December 31, 1922 \dots 1 351 352 December 31, 1923 \dots 1 351 352 December 31, 1924 \dots 2 339 341 December 31, 1925 \dots 2 318 320	December 31, 1910		52	1,300	1,352
December 31, 1913 38 836 877 December 31, 1914 18 648 666 December 31, 1915 14 504 518 December 31, 1916 9 447 456 December 31, 1917 11 442 453 December 31, 1918 5 421 426 December 31, 1919 6 438 444 December 31, 1920 1 402 403 December 31, 1921 1 399 400 December 31, 1922 1 351 352 December 31, 1923 2 339 341 December 31, 1924 2 318 320	December 31, 1911		47	1,171	1,218
December 31, 191418 648 666 December 31, 191514 504 518 December 31, 19169 447 456 December 31, 191711 442 453 December 31, 19185 421 426 December 31, 19196 438 444 December 31, 19201 402 403 December 31, 19211 399 400 December 31, 19221 351 352 December 31, 19232 339 341 December 31, 19242 318 320	December 31, 1912		31	1,014	1,045
December 31, 191514 504 518 December 31, 19169 447 456 December 31, 191711 442 453 December 31, 19185 421 426 December 31, 19196 438 444 December 31, 19201 402 403 December 31, 19211 399 400 December 31, 19221 388 389 December 31, 19231 351 352 December 31, 19242 339 341 December 31, 19252 318 320	December 31, 1913		38	836	877
December 31, 19169447456December 31, 191711442453December 31, 19185421426December 31, 19196438444December 31, 19201402403December 31, 19211399400December 31, 19221351352December 31, 19231351352December 31, 19242339341December 31, 19252318320	December 31, 1914		18	648	666
December 31, 191711442453December 31, 19185421426December 31, 19196438444December 31, 19201402403December 31, 19211399400December 31, 19221388389December 31, 19231351352December 31, 19242339341December 31, 19252318320	December 31, 1915		14	504	518
December 31, 19185421426December 31, 19196438444December 31, 19201402403December 31, 19211399400December 31, 19221388389December 31, 19231351352December 31, 19242339341December 31, 19252318320	December 31, 1916		9	447	456
December 31, 19196438444December 31, 19201402403December 31, 19211399400December 31, 19221388389December 31, 19231351352December 31, 19242339341December 31, 19252318320	December 31, 1917		11	442	453
December 31, 19201402403December 31, 19211399400December 31, 19221388389December 31, 19231351352December 31, 19242339341December 31, 19252318320	December 31, 1918	· · · · ·	5	421	426
December 31, 19211399400December 31, 19221388389December 31, 19231351352December 31, 19242339341December 31, 19252318320	December 31, 1919		6	438	444
December 31, 19221388389December 31, 19231351352December 31, 19242339341December 31, 19252318320	December 31, 1920		1	402	403
December 31, 1923 1 351 352 December 31, 1924 2 339 341 December 31, 1925 2 318 320	December 31, 1921		1	399	400
December 31, 1924 2 339 341 December 31, 1925 2 318 320	December 31, 1922		1	388	389
December 31, 1925 2 318 320	December 31, 1923		1	351	352
	December 31, 1924		2	339	341
December 21 1026 2 202 004	December 31, 1925		2	318	320
December 31, 1320 3 303 306	December 31, 1926		3	303	306

It may be noted that during the years specified above the death rate from Typhoid Fever has been reduced as follows:

1905	. 222.6	per	100,000	1916	7.5	per	100,000
1906	. 146.5	,,	,,	1917	6.0	"	,,
1907	. 51.0	,,	"	1918	6.5	,,	,,
1908	. 40.6	,,	,,	1919	7.4	,,	,,
1909	. 38.4	,,	"	1920	.0	,,	,,
1910	. 31.6	,,	,,	1921	.0	,,	,,
1911	. 7.9	,,	,,	1922	.0	"	,,
1912	. 5.4	,,	,,	1923	.5	"	,,
1913	. 4.3	,,	,,	1924	1.0	,,	"
1914	. 3.9		,,	1925	1.0	"	,,
1915	. 2.0	,,	,,	1926	1.0	"	,,

Extension of Sewers and Water Mains

On the completion of our annual census of outside closets, taken in December, the following list was prepared and sent to the Public Improvements Committee.

List of Streets with Four or More Houses Requiring Sewers or Water Mains, December, 1926.

	Fort Re	ouge		
Street	Block	Houses	Total	Remarks
Beaverbrook St *Haskins	to Jackso	on 13		
Beaverbrook St*Jackson	n to Lenno	on 8	21	
Lindsay StHaskins	to Jackso	on 2		
Lindsay StJackson	to Lenno	on 1		
Lindsay StLennon	to Mathe	rs 3	. 6	
Cambridge StJackson	to Lenno	on 7		
Cambridge StLennon			11	
Fleet AveGuelph	to Wilto	on 2		
Fleet AveWilton to	o Rockwoo	od 2	4	
Lorette Ave	v to Guelp	oh 2		Sewer Harrow to Rock-
Lorette AveGuelph	to Wilto	on 2		wood, advertised Jan.
Lorette AveRockwood	l to Thurs	so 2	6	14, 1924. Not pro- ceeded with.
Scotland Ave	to Guelp	oh 2		Sewer Harrow to Rock-
Scotland AveGuelp	h to Wilto	on 5		wood, advertised Jan.
Scotland Ave Wilton to	o Rockwoo	od 1		14, 1924. Not pro-
Scotland AveNathaniel to	Cambridg	ge 2	10	ceeded with.

Street Block H	ouses	Total	Remarks
Weatherdon AveStafford to Harrow	7		
Weatherdon Ave Harrow to Guelph	2		
Weatherdon Ave Rockwood to Thurso	3		
Weatherdon AveNathaniel to Beaumont	1		
Weatherdon Ave Beaumont to Cambridge	1	14	
Carter AveStafford to Harrow	4		
Carter AveHarrow to Guelph	4	8	
Hector Ave Wentworth to Stafford	3		Sewer but no water.
Hector Ave Stafford to Harrow	3	6	Water main to West
			lot line of Lot 36,
Pembina Highway (scattered)	10	10	Block 23, 1922.
Ebby AveLilac to Wentworth	3		
Ebby AveWentworth to Stafford	2	5	
Total		101	
On streets with less than four houses, or			
where sewers and water mains have			
recently been constructed		59	
m.+.)		1.00	
Total		160	
Assiniboine Avenue to	Higgi	ins A	venue
Centre StreetCalder to Ellice	2		
Centre St Ellice to Sargent	3	5	
Keewatin St Rapelje to St. Matthews	2		
Keewatin StSargent to Wellington	1		
Keewatin StSt. Matthews to Ellice	2		
Keewatin StWilliam to Logan	3		Water main. No sewer.
Keewatin St. Logan to C.P.R. Main Line	2		Private sewer north of
			Logan, owned by Thos.
			Jackson & Sons. Other owners refuse to con-
			nect with this sewer,
			and apparently cannot
			be compelled to do so
			unless the city takes
			over the sewer. City sewer extends to 150 ft.
			north of Gallagher Ave.
Total		15	
On streets with less than 4 houses, or where			
sewers or water mains recently con-			
structed		29	
Total		44	

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C. P. K. Main Line to	North	eny	Limits			
Street Block	Houses	Total	1	Rem	arks	
Atlantic Ave Airlies to McPhillip	s 3		Water	main	laid.	No
Atlantic Ave		5	sewer.			
Boyd Ave Prince to McPhillip	s 4	4				
Bannerman AveC.P.R. Beach Line t	0					
Airlies	. 2					
Bannerman AveAirlies to McPhillip	s 2	4				
Cathedral AveGalloway to C.P.R. Beach	b					
Line	. 1					
Cathedral AveC.P.R. Beach Line to	0					
Airlies	. 2					
Cathedral AveAirlies to Radford	. 1	4				
Dalton St Mountain to Machray	y 4	4	Sewer 1	laid.	No w	ater
			main.			
Inkster Ave Parr to Arlington	n 4					
Inkster Ave Arlington to C.P.R						
Beach Line	. 1					
Inkster Ave C.P.R. Beach Line to	0					
Sinclair	. 1					
Inkster Ave Sinclair to Airlie	s 1	7				
Kitchener AveNear Keewatin St	. 4	4	Dairies.			
			Dunico			
Lansdowne AveParr to Sinclai	r 4	4				
Monreith St Mountain to Church	h 4	4	Sewer	laid.	No 1	vater
			main.			
Mountain Ave McPhillips to Fife	e 6	6				
Robertson St Mountain to Church	h 4	4				
Total		50				
On streets with less than 4 houses, or when						
sewer or water mains have recently	y	01				
been laid	•	21				
Tratel		71				
Total	•	71				

C. P. R. Main Line to North City Limits

Elmwood	1		
Street Block He	ouses	Total	Remarks
Beach Ave Foster to Cameron	2		
Beach AveCameron to Kent	1		Sewer laid. No water main. Pit elosets and cellars flooded and insanitary.
	•		Sewer ordered C.P.R. track to Kent St. (ex- cept between Cameron and Green), Jan. 16, 1922. Not constructed.
Beach Ave*Kent to Keenlyside	3		1522. Not constructed.
Beach Ave *Keenlyside to E. City Limits	3	9	
beach intern incomposite to in enty inmits			
Herbert Ave	6		
Herbert Ave	4	10	
inclose internet to incompare			Water main laid. No
Nairn Ave	2		sewer.
Nairn AveCameron to Kent	2	4	Sewer laid. Water
in an	-		within 300 ft.
Total		23	
On streets with less than 4 houses, or where			
sewers or water mains have recently			
been laid		8	
occa and totter totter totter totter			
Total		31	
Summar			
Fort Rouge			
Assiniboine River to C.P.R. Main Lin			
C.P.R. Main Line to Northern City I			
Elmwood			
			189
On streets with less than 4 houses, o	r who	TO SOU	
mains have recently been laid			
mans mult recently been mit			
Total outside closets in	1180	Dec :	31 1926 306
Table Showing Additions and			
Outside closets in use Dec. 31, 192			
New closets built 1926			
and closely build road articles			
Less closets removed during 1926			
the second	-		
Remaining			306

Housing

There were 575 new houses built in 1926, and also 10 apartment blocks, containing 304 suites. These were all built by private enter-

...

prise Vacant houses in December numbered 612 as against 811 in 1925 Vacant suites 338 as against 445. Even this fairly large increase of accommodation does not seem to do more than care for the natural increase of population. The houses illegally occupied as tenements, seem to be just as full as ever. Further details regarding housing conditions will be found in the reports of the Chief Health Inspector and the Tenement Inspector.

Educational Work

On several occasions during the year, members of the Staff have been called upon to give lectures and radio talks to the public.

For the education of our own staff the following course of lectures was arranged for the season of 1925-26:-

1925

- Nov. 14—The part played by Insects in the Transmission of Disease— Dr. A. J. Douglas, Medical Health Officer.
- Nov. 21—Preventive Medicine—Dr. Fred C. Cadham, Provincial Bacteriologist.
- Nov. 28—Impressions of a recent trip to Europe—Dr. Manly Finkelstein, City Bacteriologist.
- Dec. 5—Illustrated Lecture, Occupational Diseases—Dr. Hugh Mackay.
- Dec. 12-Diet in Disease and Health-Dr. C. R. Gilmour.
- Dec. 19—Smallpox and Vaccination—Dr. A. B. Alexander, Medical Supt., City Hospitals.

- Jan. 9—Impressions gathered at the Convention of the International Association of Milk and Dairy Inspectors—W. A. Shoults, V.S., Provincial Department of Health.
- Jan. 16—Problems in Smoke Abatement—Mr. P. Pickering, Smoke Inspector.
- Jan. 23—Leaves from the notebook of a City Chemist—Mr. A. Blackie, City Chemist.
- Jan. 30-Heating and Ventilating-Mr. J. Foggie, Sanitary Inspector.
- Feb. 6—A comparison of old and new theories of Food Inspection— Mr. A. Rigby, Chief Food Inspector.
- Feb. 13-Visit to Harris Abattoirs, St. Boniface.
- Feb. 20—A Talk on Sanitary Law—Mr. E. W. J. Hague, Chief Health Inspector.
- Feb. 27—Legislation for Children—Miss E. Russell, Supt. of Provincial Public Health Nurses.
- Mar. 6-Round Table discussion on Housing-Introduced by Mr. A. Officer, Tenement Inspector.
- Mar. 13—Controlling a Milk Supply—Mr. E. C. Brown, Chief Dairy Inspector.

Mar. 20—A talk on Mental Hygiene—Dr. A. T. Mathers. Mar. 27—Annual Dinner.

Also an evening lecture in January on Tuberculosis, by Dr. D. A. Stewart, Medical Superintendent of Ninette Sanitarium.

These were well attended and much enjoyed.

Division of Street Cleaning

During the latter part of the year the City Council placed the Department of Street Cleaning under the Health Officer, as a division of the Health Department. This division is responsible for cleaning the streets, scavenging, and the disposal of municipal wastes. Mr. E. Wood is in charge of the division. A report from Mr. Wood, covering the period during which he has operated under the new arrangement, is included in this report.

Changes in the Staff

Early in the year Dr. Manly Finkelstein resigned his position as Bacteriologist to go into practice. Dr. Finkelstein, during his term of office, discharged his many duties in a highly efficient manner; his courtesy and kindness made him a favorite with our entire personnel, and he carries with him our best wishes for his success in the future.

It is a real pleasure to report that we were able to secure Dr. Morley Lougheed to succeed Dr. Finkelstein. Dr. Lougheed is no stranger to the Department, having acted in a temporary capacity during the previous year. Dr. Lougheed possesses all the qualifications of professional skill and personality that are required to fit him to render the highest quality of service.

Inspector C. W. Chisholm retired on pension, having served the City honorably and ably for twenty years.

Dairy Inspector F. Hudson resigned his position in June, and was succeeded by Mr. J. M. Jackson, who brings with him experience and training for the special line of work he will be called upon to perform.

I regret to report the death of Mr. A. G. Cowley, Caretaker of the Milk Depot, which occurred in August. Mr. H. N. Steel was appointed in his place.

Miss W. G. Aldham resigned her position as record clerk, to return to her home in England. We were sorry to lose Miss Aldham who had been with us a number of years. Mr. George Moore was promoted to her position.

Two of our young lady stenographers, Miss L. E. Gransden and Miss C. B. Morden, were claimed by matrimony. To fill these vacancies, Miss E. S. Halliday and Miss E. Fraser were appointed.

In conclusion I desire to express to the members of the staff my very sincere appreciation of the faithful manner in which they have discharged their duties throughout the year.

Respectfully submitted,

A. J. DOUGLAS, Medical Health Officer.

Report of Chief Health Inspector

A. J. Douglas, Esq., M.D., Medical Health Officer.

Dear Sir:

I have the honour to submit herewith a report of the work accomplished in this Division of the Health Department, as set forth in my own report, and in those of the Tenement and Smoke Inspectors, as follows:

Abatement of Nuisances

The table which follows sets forth in concise form a summary of the work done by the inspectors of this division.

The total number of inspections and re-inspections was 39,667, or 3,011 less than in 1925. We had, however, this year only 10 districts inspectors as against 11 in 1925.

Actual inspections in 1925 equalled 3,879 per man, and this year 3,967, or 88 per man, more.

Complaints numbered 2,624, or 135 less than in 1925.

September October December Totals	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	212 214 164 153 2,624	43 32 30 30 459 169 182 134 123 2,165	212 214 164 153 2,624	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	30 23 24 14 341	212 214 164 153 2,624	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1,128 1,038 1,072 892 13,468	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
4suguA	8 156 66	222) 42 8 180	8 222	3 186	36	222	t 273 3 110 5 706	8 1,089	8 148 6 148 14 1
1 njx	69 218 93 50	2 268	8 30 4 238	2 268	8 236	44 32	2 268	0 284 2 168 9 596	1 1,048	80 148 999 76 24 6 3 ···
ounr	19 169	335 262	72 48 263 214	335 262	298 218	37 4	335 262	262 320 219 182 061 849	42 1,351	61 18 94 94 31 2 2 31 2
April VaW	176 2 79 1	255 3:	215 20	255 3:	229 20	26	255 3:	297 20 224 2 806 1,00	327 1,54	205 10 93 10
March	138 1	207 2	30	207	182 2	25	207 2	227 2 146 2 629 8	1 002 1.5	103 51 103 103
Рергияту	104	168	139	168	143	25	168	227 103 654	984	197 94 13 13
January	86	164	33 131	164	139	25	164	220 127 648	995	204 92 11 4
	Complaints received in office	Total	Of above— Complaints re non-removal of garbage, ete Complaints re nuisances, ete	Total	Complaints well founded	Complaints unfounded or rectaned previous to receipt of same	Total	Written notices (informal)	Total	Dwelling houses

Sanitary Inspections for the Year 1926

SANITARY INSPECTIONS DIVISION

	January	February	March	lingA	May	ounr	1 nJX	dsuguA	September	October	November	December	statoT
Offices	14	61	6	9	6	2	1	00	9	4	6	00	11
Restaurants and stores.	29	46	57	49	10	53	64	60	22	68	82	33	669
Stables. livery, feed and sale	40	30	29	24	27	30	22	51	51	30	18	28	380
Stables, private	140	157	152	163	169	173	130	156	161	152	159	116	1,828
Laundries, hand	49	50	48	120	73	48	33	33	35	42	82	46	629
Laundries, steam	4	00	4	4	33	4	4	/ 3	4	0	50	4	47
Dog kennels	11	6	8	22	22	21	15	/ 12	14	12	16	14	176
Theatres and places of amusement	4	10	03	4	9	11	5	4	9	9	9	60	62
Public bath houses	4	4	4	00	6	00	8	4	6	8	4	4	74
Public bath houses, water samples	8	8	10	11	12	15	12	15	13	10	11	8	133
Comfort stations, public	20	20	20	. 20	20	610	22	12	24	20	20	20	240
Maternity and Infants' homes	1	:	:		:	63	01	:	:	•••	•••		20
Hospitals, private				1	9	00	03	:	:	:	:		12
Common drinking cups and towels	00	4	4	4	3	03	33		4	4	4	00	41
Barber shops	11	12	15	14	6	12	10	12	13	12	1-	6	136
Second-hand stores and junk yards	22	29	19	146	62	22	20	16	26	10	18	27	417
Pool rooms	23	26	25	67	43	20	22	17	20	21	23	23	330
Yards. sheds, areas, etc	486	394	595	731	1777	754	478	618	590	561	420	513	6,917
Vacant lots (nuisances)	64	53	92	87	129	94	56	49	64	85	82	52	922
Streets and lanes (nuisances)	C1	242	273	277	289	298	294	235	269	248	348	295	3,359
Intectious diseases (houses placarded, dis-		1.01	004	10.1									CRA T
Interted, etc./	290	464	200	16	:	:	:	:	:	:	:	:	1,576
Total number of inspections	2,205 976	1,919	2,243 1,299	2,126 1,659	2,045	1,935 1,647	1,464 1,224	1,574 1,418	$1,738\\1,758$	$1,592 \\ 1,376$	1,690 1,547	2,260	22,791 16,876
Total number of inspections and re-inspections	3,181	3,062	3,542	3,785	3,961	3,582	2,688	2,992	3,496	2,968	3,237	3,173	39,667

Sanitary Inspections For The Year 1926 (Continued)

CITY HEALTH DEPARTMENT

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	53 61 63	39		1 10	19	03	42	1	03	36	00	20	211	181	63	:	:	9		9-0	1		119	
Defects and Nuisances Discovered and Abated:	Drains, choked or defective	tive	Baths and fittings, choked or defective	Soil-pipes, clean-outs, etc., choked or defec-	Catch-basins and traps, choked or defective	W. C. compartments, defective light and ventilation	Plumbing and water pipes, frozen	Vent stacks, frozen	Sewer connections, frozen	Water services, defective or cut off	Plumbing fixtures, insufficient	New plumbing, notice to instal	Total plumbing defects	Dirty vards, courts, sheds, etc	Poultry kept in dwelling	Pigeons kept in dwelling	Animals kept in dwelling	. Poultry kept under insanitary conditions	Cows or other cattle kept under insanitary	Cows or other sattle bont too slose to dwel	ling	Hogs, un'awfully keeping	Horses, insanitary stables	narbage receptations and the second

SANITARY INSPECTIONS DIVISION

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October	67	17	80	25	03	:	9	. 4	18	:	¢3	4	1	4	L	18		29	1	10	•••	63	1	11
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February	62	60	8	27	6	•	F	. 00	20	•••	0	00	•••	03	9	-	-	0	L	E	:	C1	9	00
January	63	4.4	6	22	13	•••		1	22	:	9	01	01	:	10	c1_		•••	01	15	•••	¢1		4
	Refuse receptacles	Ash recentacles	Paper receptacles	Cellars and basements, defective	Dwellings, dilapidated and insanitary	dilapidated and insanitary.	Offices and workshops, dilapidated and in-	Dilapidated and insanitary other buildings.	Overcrowding (day inspections)		Overerowding (notices)	Rat-infested buildings	Coekroach infested buildings	Bed-bug infested buildings	Chimneys, defective	Roofs, defective	Lavestroughs and rain-water leaders, defec-	tive	Gas fittings and piping, defective	Furnaces and heating apparatus. defective.	Refrigerators, defective	Lighting, defective	Ventilation, defective	· · Pit closets, concrete or brick, notices

681 .855 3,370	$15,044 \\ 1,956$	17,000	217 1,039	1,256	9 188	197	145 12 10 7
25 3 52 295	962 147	1,109	32	157	37	40	14
68 9 68 374	1,313	1.440	24 151	175	33	34	12 312 : 312
73 3 84 246	1,179	1,321	24 102	126	63 63	25	E ::::
75 2 74 264	$1,269 \\ 140$	1,409	21 82	103	::11	II	:: 1: 13
73 	1,256	1,395	10	61		2	* ::::
65 51 289	1,310	1,436	16 86	102	:5	2	1 : · · · ·
78 91 300	1,527 137	1.664	18 91	109		9	12
73 129 316	$1,724 \\ 163$	1,887	71	83	: 5	2	$\begin{array}{c} 13\\ \vdots\\ 15\\ 7\\ 7\end{array}$
53 13 73 265	1,518	1,701	14	16	1	15	14 2½2
41 15 77 262	$1,084 \\ 277$	1,361	34	44	10	10	의 : : : :
28 248 248	956 164	1,120	18 91	109	15	16	4
29 279	946 211	1,157	18 78	96	18	19	2 : :
Contractors' closets, notices	Total number of defects	Total defects discovered (including plumbing defects)	Smoke Nulsances: (Pimreys and smoke stacks (observations) Furnaces, boilers, fuels, etc., inspections of	Total	Notices, statutory	Total	Miscellaneous: Water samples taken Chemical tests (plumbing and drainage) Negative Coses renorted for prosecution Time attending court (hours)

SANITARY INSPECTIONS DIVISION 31

Frozen Plumbing and Water Pipes

There were 196 cases of frozen sewers, plumbing, and water pipes. This number by no means represents all the cases of frozen plumbing which occur during the winter months. There are so many old and badly constructed buildings; so many cellars without furnaces; that it is extremely difficult in such buildings to keep the plumbing from freezing. Poverty of the tenants is also a contributory cause, and when we discover such cases we sometimes have to ask the Social Welfare Commission to assist us in getting matters put right. We had also the usual quota of occupants of lock-up stores who will not keep their stoves going at nights and over week-ends, and thus allow the plumbing to freeze.

Other Plumbing Defects

These numbered 1,760 or 146 fewer than in 1925. They included choked or defective drains, sinks, wash basins, water closets, baths, urinals, soil stacks, catch basins, clean-outs and vent stacks. We found several instances where sinks and other plumbing fixtures had been installed without permits and in an unsatisfactory manner. This often occurs in dwelling houses unlawfully occupied as tenements. In one such case three sinks had been installed without vents or traps, and the waste pipes of these were buried in the loose earth under the cellar floor, thus leading to a serious nuisance being created. Such work is not done by the authorized plumbers of the City, but by some handy man.

There were 48 notices served to install new or additional plumbing fixtures. Five hundred and seventy-five new houses and 10 new apartment blocks were erected. These, with the exception of a few houses built on streets without sewer or water, were connected up and plumbing installed. There are now only 306 outside closets in use in the City.

Garbage, Manure and Other Receptacles

The appearance of a City is much improved when all waste substances are kept in covered receptacles whilst awaiting removal. This also, especially in the case of manure, helps to keep down flies. One of the best ways to prevent the increase of rats is to keep all garbage in metal receptacles as their food supply is largely curtailed thereby. Whilst these various receptacles required by the by-laws are not expensive, they do not last long. The wear and tear in considerable, with the consequence that repairs or renewals are necessary. We served 3,813 notices respecting such receptacles, during the year.

Scavenging

The closest co-operation has been maintained with the street Commissioner's Department in the matter of scavenging, both as to the keeping of the various kinds of refuse, whilst awaiting removal, in the proper receptacles, and also as regards the service given. We received 459 complaints regarding garbage and refuse, and when necessary took up the matter with the Street Commissioner. There were no general complaints regarding the scavenging service.

The following requests were made to the Street Commissioner's Department during the year:

clean Contractor's closets
allow rebates 91
remove garbage 34
remove dead animals 38
remove ashes 52
clean brick pit closets 52
remove infected bedding 1
remove manure from streets or lanes 7
remove tins or incombustible refuse 54
Total

*There were no rebates given to Contractors on 1926 permits.

The rebates shown as above were on 1925 permits held over.

It should be noted that on November 1st, 1926, the City Council again placed the Scavenging under the Medical Officer of Health as a separate division of the Health Department, with Mr. E. Wood as Chief of the division. This ought to make for better work as regards the cleanliness of the City, as the Street Cleaning is also to be a function of the new division.

Contractors' Closets

Permits issued, 558, as against 510 in 1925. Inspections and notices 681 or 251 less than in 1925. This would indicate that the new system of making one fee, paid at time of issue of permit, cover the cost of all cleanings necessary, is better than the old method under which a separate notice and fee was necessary for each cleaning. Five contractors were prosecuted for infractions of the by-law.

Feed and Sale Stables

Only 14 permits were issued for such stables, two being refused. Total inspections numbered 380.

Keeping of Animals

Inspections of private stables numbered 1,828, which will give some indication of the difficulty of keeping down nuisances in connection therewith. There are about 200 private cow keepers. The following cases were dealt with:

Cows kept i	n insanitary	stables or	sheds				39
Calves kept	in insanitary	stables or	sheds				2
Horses kept	in insanitary	v stables or	· sheds				121
Goats kept	in insanitary	stables or	sheds				5
Sheep kept	in insanitary	stables or	sheds				73*

*The sheep were kept in a disused tractor warehouse, situated at some distance from any dwelling.

These animals were kept in 68 different stables or sheds, except in 4 cases where no stable was provided.

Action Taken and results:

Stables vacated and placarded 3
Stables vacated but not placarded16
Stables improved
Number of animals reduced 7
Stables demolished 1
Stables converted to garage 1
No stables. Animals disposed of 4
Pending 7
-
Total

In addition to the improvement of stables, the following animals were removed:

	,	т	0	ta	a	1																																		7	0
Sheep	•			•				•	•	•		•			•	•	•	•	•		•	•	•	•	•	•	•	•	•	•			•		•						00
Goats																																									
Calves					2											•						•																			2
Cows																																								1	4
Horses			•				•	•	•		•		•	•	•	•	÷	•		•	•	•		÷	÷	•	•	•	•	•	•	÷	•	*		•	•	•	•	4	8

Poultry:

Poultry	kept in	dwellings		 			. 47	cases
Poultry	kept in	insanitary	sheds	 	 		.112	**
Pigeons	kept in	dwellings		 		 	. 16	"
Te	otal			 		 	.175	,,

Other Animals:

Animals kept in dwellings 12 (mostly dogs and cats).

Licensed Dog Kennels

Permits issued, 24, or one less than in 1925. Inspections made, 176. Several complaints were dealt with regarding noise nuisance occasioned by the barking of dogs in the licensed kennels.

Nuisances in Yards, Sheds, Lanes, Vacant Lots, Etc.

Constant vigilance is needed to prevent this. Some people will deposit manure and rubbish on streets and lanes, or on vacant lots. The notices served were as follows:

Dirty yards, courts, sheds, etc.	
Stagnant water on vacant lots	46
Other nuisances on vacant lots	855
Nuisances on streets and lanes	

This is 600 more than last year.

Nuisances Abated Compulsorily and Charged as Taxes This was not found necessary in any instance this year.

Compulsory Sewer Notices

None this year.

Applications for City Installed Plumbing

One or two were received but none accepted.

Overcrowding

Day inspections made, 211, and one night inspection. Forty notices were served to abate overcrowding. Actual room overcrowding is not prevalent, and in the cases dealt with it was generally due to large families trying to live in too few rooms. We recently found a man and wife with 12 children, living in a one roomed shanty, sixteen feet square. There were only two beds in the room and little else. The man owns the shack but it is built on a city street in the outskirts of the City. The family was getting some relief from the Social Welfare Commission. It is a puzzle to know what to do with cases like this.

Housing

There were 575 new houses built, and 10 new apartment blocks, containing 304 suites. These were all built by private enterprise as the Housing Commission for the third consecutive year made no loans. Notwithstanding the number of houses and apartment blocks built, at December 31st there were only 612 vacant houses in the City, or 1.8% of all dwellings. Vacant suites numbered 338, or 4% of all suites. This is the smallest number of vacancies for some years. This amount of building just about cares for the natural increase of the population, but does not provide the kind of accommodation required for the large number of families cooped up in what were formerly one-family dwellings.

New dwellings are mostly erected for sale and not for rent. We need a few hundred small, 3 to 5 roomed cottages available for rent. They must be warm so as to economize on fuel and the rents must not be too high.

During the year we carefully checked up the total housing accommodation of the City, adding the new houses and suites, and deducting houses demolished. The result was as follows:

CITY HEALTH DEPARTMENT

Total	suites o	f rooms	used as	dwellings	in co	on-
n	ection w	ith store	s			1,143
Total	suites in	apartme	ent block	s proper		8,268

In the above table of lettings, however, dwelling houses are reckoned as containing one family only, whereas it is known that a very large number house from two to ten, or even more, separate tenants or families. We do not know the exact number of such houses, but there must be from 3,000 to 5,000.

There have been 3,665 dwellings and 17 apartment blocks, with 416 suites, erected since 1918. The population in that period has increased by 13,530, or from 183,595 to 197,125; yet all this new building leaves the unlawful tenements in the same condition, and so far as our evidence goes, just as overcrowded.

In the month of October, at the request of the Chairman of the Health Committee, we prepared and submitted to that Committee a very full report on the conditions obtining in such houses. The report referred to the information given in the Annual Reports of the Health Department during the last 10 or 12 years, the special printed Housing Survey Reports of 1918 and 1921, and the Annual Vacant House Survey Reports. The report specified in detail the reasons why we consider the conditions found today in the unlawfully occupied tenements are not conducive to the good health of the occupants, but are, on the contrary, inimical, and not in the best interests of the City as a whole. It described why it had not been found practicable during the War and the succeeding years, owing to the general shortage of houses and bad financial conditions, to enforce strictly the tenement sections of the Building By-law which should regulate such houses; and also that as a consequence of these conditions, the Department had been obliged to take action only when conditions extremely bad were disclosed. The report concluded by recommending that a by-law be enacted which would deal specially with this class of house, and which would recognize them as in a class by themselves, describing them as "Houses Let in Lodgings." The draft by-law submitted with the report contemplated the registration or licensing of the houses, and specified the improvements which should be made in order to render them somewhat more suitable for tenement use. Copies of the report and by-law were supplied to the Committee. The report and by-law were eventually filed. This leaves us just about as before.

So long as the tenement sections of the Building By-law remain as at present, these houses are, (or at least those which were converted to tenement use since November, 1909), unlawfully occupied. If the Department notified the owners of any such houses to make improvements thereto, such as for instance installing additional plumbing fixtures, we, to that extent recognize them as lawful tenements.

The only kind of a notice justifiable would be a notice to take out a permit and to properly convert the house so as to make it comply with the tenement sections. Moreover, it would not do, when so many houses of the same class are involved, to pick and choose. If we are to avoid a change of discrimination, all or none should be dealt with.

It should further be noted that many of these houses cannot be made to comply strictly with the present tenement sections of the by-law, which in any event, were intended more to regulate the erection of new apartment blocks. If we had a by-law which, whilst not requiring such houses to be brought up to the high standard required by the tenement sections of the Building By-law, would at least insist on a few reasonable improvements in such houses, the Department could then take hold of the problem with some hope of success. It is a matter of a Housing By-law rather than a Building Code. Another point might be mentioned, viz: How are future conversions to be dealt with? We have no complete record of these houses. A by-law dealing specifically with such converted houses and requiring registration or license would bring them under control and also regulate future conversions. As matters are at present, a lessee converting his house to tenement uses can scarcely be blamed for so doing when he observes a great many others doing the same thing with impunity. We hope that further consideration will be given this matter.

Zoning

Nothing has been done during the year. Several instances came to our attention of businesses established in residence districts which were the cause of complaint on the part of the residents.

Gas Stoves and Fittings

There were 11 cases dealt with of defective gas stoves and fittings. In one-family dwellings and in apartment blocks proper the ovens at least of gas stoves are connected to flues by means of pipes; but in the unlawful tenements where there are frequently from 6 to 10 gas stoves installed in one house, such is not the case and it would be extremely difficult, if not impossible, to properly connect a large number of such vent pipes to a chimney. There is frequently only one chimney in the house and by the time the pipes from the various rooms reached the chimney there would be so many bends that the draught would be negligible. In hundreds of cases gas stoves are installed unvented in small rooms which are used for both living, cooking and sleeping. With a gas stove in practically every room, the ventilation especially in Winter when the storm sashes are on, is very poor indeed and the products of combustion remain in the rooms to vitiate the atmosphere. Many times we have found gas stoves with all the burners lighted, including the oven burners, being used to provide heat in such rooms. This, with the possibility always present of the escape of small quantities of unconsumed illuminating gas owing to defective burners, leads us to believe that the use of so many gas stoves in one house, unvented, and installed in small, badly ventilated rooms, constitutes an ever present menace to the health of the occupants.

CITY HEALTH DEPARTMENT

There was at least one accident in such a house during the year, when a man left the gas stove burning and went to sleep. The pan on the stove boiled over and extinguished the flame and the room then filled with unconsumed gas. This, of course was an accident and such cases are not frequent. The most serious danger, however, is that of carbon monoxide gas, either from escaping unconsumed gas, or generated during the cooking processes.

Many investigators are now at work demonstrating the dangerous properties of this deadly gas in industrial plants, garages, repair shops, and the necessity for ample means of ventilation, at all times, in places where it is known that the gas may be found. Fatal accidents draw the attention of the public to the dangers of Carbon Monoxide poisoning, as these are sudden and dramatic. Recent investigations, however, have demonstrated that the gas may be absorbed into the blood through the lungs in small quantities and accumulate with disastrous effects to the victims. Instances are given of infants taken from tenements where gas is used, in which blood tests showed beyond doubt the cause of the sickness-and some cases the death-of these small patients. We, therefore, believe that gas stoves, as at present installed in the rooming houses of the City, may be the unsuspected cause of many cases of sickness or general ill-health in which the symptoms are obscure or ill-defined. There is still no by-law to regulate gas-fitting.

Trades, Manufactories, Office Buildings, Etc.

We make no systematic inspection of such premises, but investigate all complaints received. Inspections of workshops and industrial plants number 477, and of offices, 71.

Some of the causes of complaint were as follows:- Vibration in a mill built close to dwellings. Noise. Odours from Pickle and Vinegar factory. Nuisance from storage and handling of coal. Dust nuisances from wood-cutting plant and a mortar mixing plant, etc. Lack of sufficient natural light; also inadequate ventilation in garages and offices, and defective or inadequate plumbing, were dealt with. Two or three permits for occupation of basements for business of a public character were granted. Inspection of laundries is dealt with under that head.

Rats

Complaints regarding rats numbered 42. The bounty of five cents for each rat's tail delivered at the Health Office, was continued, 3,452 being brought in; cost \$172.60. This is 766 less than in 1925. Two men working at the City Nuisance Ground brought in 1,275 tails. From the stables of a railway company, 281. From one butcher shop, 224. Two other large stables yielded 199 and 252 respectively.

There were 1,068 boxes of poison distributed gratis, of which Ward I got 20.2%; Ward II, 29%; and Ward III, 50.8%. One applicant for poison stated that a baby had been left on a verendah in a baby carriage to sleep and that a rat was found lying at the bottom

of the pram. Another person complained that a rat had run over his bed. We had no reports of rat bites this year. Rats find it easy to get food in Winnipeg. In one of the best residence districts it was found that the garages and the small sheds or cupboards which contain the garbage cans were honey-combed with rat holes. There is no specific by-law respecting rats. If there were such a by-law we could control the situation better.

Public Baths and Comfort Stations

Inspection of baths, 74; comfort stations, 240. Samples of water taken from the swimming pools and submitted to the City Bacteriologist for examination, 133. We also took a number of samples from the Y.M.C.A. pool. Both the baths and comfort stations were kept in a clean and sanitary condition during the year.

Private Hospitals

Only 4 permits were issued. Two applications were held up because information was not forthcoming as to the number of Maternity cases received during the preceding year. This is necessary because, if the principal business carried on is the receiving of Maternity cases, the premises come under the jurisdiction of the Provincial Board of Health, and no City license is required.

Undertakers' Establishments

Seven permits for License were issued. Several inspections were necessary in some cases, before the premises were approved for renewal of License.

Common Drinking Cups and Towels

Forty-one warnings were given. No systematic inspection is made for infractions of the Government Regulation, but on inspections of premises for other reasons, common cups and towels are observed.

Chimneys and Furnaces

Defective chimneys dealt with, 48. Defective furnaces or heating apparatus numbered 74. The complaints were of lack of adequate heat, and also of smoke and gases permeating buildings.

Billiard Rooms

Permits issued, 69. Inspections, 330. In May, before license permits were renewed, all pool rooms were gone over and put into a good sanitary condition.

Second Hand Dealers and Junk Yards

Permits issued, 151, (6 fewer than 1925). Inspections made, 417.

Wiping Rags

Wiping rags prepared in Winnipeg are all properly laundered and disinfected, and are put up in bales marked as required by the Government regulations. Only one plant does this work. Their machinery is of the most modern type, and the process thorough. We had one or two complaints regarding imported wiping rags being improperly marked and took steps to have this corrected.

Bedding Factories

Complaint was made that mattresses were being manufactured out of the old fillings of discarded mattresses, and without anything being done to cleanse or sterilize this material. This proved to be correct. Only one firm, however, was concerned. We warned them against this practice, as also the junk dealer who was supplying the materials, and at present the practice has ceased. There is, however, no legislation respecting the manufacture of bedding, although several of the States and Cities in the U.S.A. have statutes or by-laws governing the same. The reputable firms manufacturing bedding in Winnipeg maintain excellent plants and are very jealous for the reputation of their output. We are assured that they would welcome legislation which would regulate the materials used in this industry and prohibit the use of undesirable materials. In view of the fact that articles of bedding and upholstered furniture are imported into the Province, any legislation enacted should be Provincial. A City by-law would not be so satisfactory.

It is possible that the Provincial Board of Health, which is also investigating this matter, may decide to make and promulgate regulations on the subject. In the meantime, we are investigating the possibility of properly sterilizing second-hand bedding, and material used for re-making articles of bedding, or for upholstering. There are many thousands of second-hand mattresses, pillows, etc., bought and sold in Winnipeg annually, in Auction Rooms, second-hand stores and junk yards. One junk yard handles 2,000 old mattresses per annum, but most of these are torn up and stripped for making into roofing felt. Quite apart from the question of the possibility of transmitting communicable diseases by means of such articles, the risk of which may not perhaps be so great as might be supposed, common decency and cleanliness would demand that the public should not be imposed upon by being supplied with articles of bedding or furniture, outwardly cleanly, but filled with filthy or infected materials.

Barber Shops

One hundred and thirty-six inspections were made.

Vermin

Thirty complaints were received of cockroach-infested buildings, and 62 with bed-bugs.

We get a few cases of persons infested with body lice. There is no legislation here similar to the "Cleansing of Persons Act," England, which would enable us to deal forcibly with such cases. The Social Welfare Commission, we understand, arranges in some such instances for disinfection of persons and their clothing at one of the hospitals.

Theatres and Places of Amusement

Sixty-two inspections were made. Only one complaint of poor ventilation was received. It was found that in order to conserve heat, the proprietor had blocked up the ventilating ducts.

Schools and Public Buildings

There were 28 inspections made, mostly of private schools. The public schools we do not visit except upon complaint.

Laundries

One hundred and twenty permits for license were issued, or 2 less than in 1925. Six applications were received to establish new laundries. Only one of these was approved by the Health Committee. In the case of the other five, the applicants evidently found it impossible to obtain the required consent of the owners of adjacent properties. Inspections of hand laundries, 659; Steam laundries, 47. The Chinese laundries are approximating more to modern methods of laundry work, in the use of steam and machinery.

Hotels

Permits issued, 58,—one less than last year. There were 208 inspections made. In the Spring the License and Health Departments, acting in conjunction, endeavor to have all licensed hotels put into good condition before the licenses are renewed.

Smoke

The report of the Smoke Inspector shows that every effort is being made to keep our atmosphere clear. Considering the great variety of coals used in Winnipeg, and the small proportions of plants equipped with automatic smoke preventive machinery, the results obtained are fairly satisfactory. This is due largely to the continuous educational campaign carried on in a quiet way by the Department, which has resulted in greater interest being taken by owners of heating and steam plants in obtaining the most satisfactory results.

It has been known for many years that a smoky atmosphere in cities is not conducive to the health of the inhabitants, but during the last year or two more recent investigations and discoveries have placed fresh emphasis on the importance of sunlight, and more especially on the importance of our receiving the full benefit of the ultra-violet rays which it would appear are absolutely necessary to the well-being of man.

Dr. Leonard Hill reports of measurements taken in England of ultra-violet radiation that smoke pollution robs the big cities of from half to two-thirds of this solar influence, and that we are only beginning to realize some of the penalties we are paying for our tolerance of the perennial smoke cloud that lies so heavily over our cities.

This is not to say that conditions in Winnipeg are anything like as bad as they are in some English and American Cities, but it does suggest that we should be vigilant in order to ensure that such conditions shall never obtain here.

CITY HEALTH DEPARTMENT

Insanitary Buildings

The table given below shows the number and class of premises for which notices were served upon owners and occupiers, under Section 103 of the Public Health Act, under which section the Health Officer has power to require that premises be put into proper sanitary condition or else closed up:

Dwelling houses, general insanitary condition Dwelling houses, unlawful conversion of same to plex dwellings	du-
Dwelling houses, unlawful conversion of same to to ments	ene-
Tenement houses	
Basement and cellar dwellings	
Dark rooms (dwellings)	
Stores occupied as dwellings	
Factories and workshops	6
Stables	
	-
	4.6
Notices served on owners and agents	48
Notices served on occupants	
ults:	
Notices complied with (premises put into sanitary dition)	
Premises closed and placarded	
Cases still pending	
	46
Remaining closed on December 31st, 1925	200
Premises repaired or demolished during 1926	
	169
Premises closed during 1926 (dwellings, 8; stable	
1; other premises, 3)	
Remaining closed on December 31st, 1926	181

Work Done for Other Divisions or Departments

In January, February and March, our inspectors assisted the Communicable Disease Division by attending to 1,576 cases, mostly releases. We made a good many inspections of rooms and dwellings for the Social Welfare Commission, reported various infractions of the Building By-law to the City Engineer's Department, and made a number of investigations for the Statistician regarding births.

Rest

Prosecutions for 1926

Nature of Charges	Cases
Nuisance on premises	. 5
Deposit refuse or manure	. 5
Neglect to comply with notice of Health Officer	. 1
Contractors' closets, lack of, defective, etc	. 5
Use leaky wagon for conveying swill	. 1
Food prosecutions	. 6
Dairy prosecutions	. 8
Total	. 31

How Disposed of

Fine Cases Fines Convicted and reprimanded 4 \$ Summons withdrawn 1 Summons not served 1 \$ 3.00 6 18.00 5.00 4 20.00 8.00 4 32.00 12.50 3 37.50 13.00 6 78.00 16.25 1 16.25 22.50 22.50 1 Total 31 \$ 224.25

This is three more than in 1925.

General

On March 31st, District Inspector C. W. Chisholm retired after twenty years service, carrying with him the best wishes of the staff. This left us with ten district inspectors only. The districts had to be enlarged and their size is now such that systematic house to house inspection is out of the question, and when some of the inspectors happen to be sick or away on holidays, the work is apt to get behind.

All the inspectors and clerks have, however, shown great interest in their work, and a desire that it shall not suffer, if they can help it, by this reduction of the staff.

Yours obediently,

ERNEST W. J. HAGUE, Chief Health Inspector.

Report of Tenement Inspector

A. J. Douglas, Esq., M.D.,

Medical Health Officer.

Dear Sir:

I have pleasure in submitting for your consideration, the following report on tenement inspection and action taken during the year 1926 in housing conditions.

Complaints relating to nuisances in tenements and apartment blocks numbered 104 this year, as against 77 last year. Of these, 34 related to improper care of garbage awaiting removal, 12 referred to bed-bugs and cockroaches, and 16 to defective plumbing and drainage. As we have about 500 apartment blocks and a large number of other premises occupied as tenements, the number of complaints may not be considered excessive.

We find that many of the complaints relating to garbage are of a trivial nature, such as choked garbage chutes, garbage cans uncovered, etc. It often happens that the trouble has been rectified before inspection is made, although complaints are attended to, as far as possible, on the day of their receipt. We have more trouble with tenants who persist in getting rid of garbage and other objectionable material, by throwing it out of their windows, sometimes on other property. This practice is most common at night.

As stated in previous reports, owners and agents are usually ready to adopt means for the extermination of roaches, bed-bugs, rats, etc., when their attention is directed to such. Tenants, however, are not always ready to co-operate.

On the whole, we have little difficulty in maintaining sanitary conditions in our apartment blocks. Many of the complaints, and most of our work, is done in premises occupied illegally as tenements.

One of the worst cases of its kind that we have come across, was an old residence of 16 rooms that we found rented out to 6 families, consisting of 12 adults and 5 children. There had been installed, four improvised sinks without traps and these discharging into rusty old iron pipes which were not properly connected to the sewer. The work had been done by an amateur plumber. Two of the sinks discharged into a sewer clean-out, the cap of which had been removed for the purpose, and the other two were carried into the catch basin. At some time previous to our inspection, the latter two wastepipes had been carried down into a mud floor in the rear portion of the cellar and the liquid waste was expected to be absorbed by the earth. How long this condition had gone on we were unable to ascertain, but the earth floor had finally become water-logged and in consequence the liquid waste had backed up and it became necessary to find another outlet. In a clothes closet, we discovered an improvised sink made of sheet iron and discharged into an old black iron pipe, the latter being carried

down into the cellar as described above. We served notice on the owners, requiring all defects in the drains and plumbing system to be repaired, including removal of the insanitary fittings referred to, also the removal of the contaminated earth from the cellar. The drains were repaired, the plumbing system overhauled, the polluted earth and clay removed from the cellar, and a concrete floor laid in place thereof.

On receipt of a report from the Division of Child Welfare, we made an inspection of an old dwelling of 9 rooms, and found 8 families, consisting of 15 adults and 9 children, in occupation. One room was vacant, so that each family had only a single room in which to live and sleep. Each family had a gas stove and none of these had a hood or pipe to carry off the products of combustion and the odors of cooking. The combined rents obtained by the lessee amounted to \$153.00 per month.

The Division of Communicable Diseases brought to our attention conditions obtaining in a two-story frame building of 13 rooms, and on inspection we found the premises occupied by 7 families, consisting of 12 adults and 9 children. As usual, each family had a gas cooker, and in one case a rubber tube connection to the stove was found to be defective, and the odor of gas was quite perceptible.

The business of "farming-out" rooms for light-housekeeping, presents a problem that is as pressing today as ever. There is an increasing number of people who rent large houses and sub-let the entire premises into suites of one or more rooms to families, who, by misfortune or other reason, are forced to live in this manner. Sleeping quarters are often cramped and crowded, and, during the winter months there is little or no means for proper ventilation, especially in Zero weather.

We are constantly regulating premises such as those described above, and whilst conditions are not always so bad as those referred to, such housing conditions are far from desirable. The children appear to be the worst sufferers and when communicable disease enters such premises, it is difficult to control the spread.

With regard to plumbing fixtures, these illegal tenements are inadequately equipped, and the shortage is not conducive to personal hygiene and cleanliness. Hot water is seldom provided to the bath tubs and these fixtures are therefore seldom used except for occasional clothes washing. We hope, in time, to have our tenements so regulated that we may be able to demand a sufficient number of plumbing fixtures, such as a water-closet and sink for each family.

As stated in previous reports, the present crowding together of families under one roof, can best be properly relieved by the erection of a large number of small houses for rent, and there is no evidence at present of this being done.

Respectfully submitted,

ALEX. OFFICER, Tenement and Supervising Inspector.

Report of Smoke Inspector

A. J. Douglas, Esq., M.D.,

Medical Health Officer.

Dear Sir:

I respectfully submit herewith report on smoke nuisances and their abatement for the year 1926.

	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Observations— Chimneys and Smoke Stacks	18	18	10	14	12	18	16	10	21	24	24	32	217
Inspections of Fur- naces, fuel, etc	78	91	34		71	91	86	51	82	102	151	125	1,039
Totals	96	109	44	91	83	109	102	61	103	126	175	157	1,256
Notices— Statutory Verbal	1 18		 10	1 14	· 7	 6	· . 7	· . 7	 11	2 23		3 37	9 188
Totals	19	16	10	15	7	6	7	7	11	25	34	40	197

Smoke Inspections

There were no prosecutions during the year as it was considered advisable to continue the educative policy which, it must be admitted, has had considerable effect in reducing the smoke density emitted from chimneys.

Due to a number of persistent offenders, however, instructions to prosecute were issued by the Health Committee. The publicity given this instruction had considerable effect and resulted in improved conditions.

It is the intention next winter to vigorously insist on total elimination of dense smoke and thereby, not only protect the public from smoke annoyance, but promote economy in the combustion of coal at the plants affected.

More importance is attached each year, by the Medical profession, to the necessity of eliminating smoke from the atmosphere, in order to take full advantage of the curative properties of sunlight.

Speaking at Toronto on October 11th last, Sir Henry Gauvain, M.D., of London, England, said in reference to the value of sunlight for Chronic Tubercular cripples, that the treatment is of very great help in strengthening the resistance and aiding the general health of the cripples, while emphasizing that the sun cure should not be considered

a cure for surgical Tuberculosis cases. Children present a more animated appearance and their vitality increases after about two weeks exposure, he declared. It had a tonic effect on the mind also. All possible means of checking smoke nuisances should be employed, Sir Henry urged, since the thinnest smoke film cuts off the sun's ultraviolet rays.

It is reported by the Department of Health, Newark, N.J., that where autopsies upon city dwellers have been carried out, the amount of carbon in the lungs is five times as much where soft coal is used, as in Pittsburgh, as compared with dwellers in cities that use anthracite coal.

The emission of dense smoke from chimneys represents considerable loss which is borne, not only by the plant owners, but the public also.

Belching of dense smoke from chimneys is not an industrial necessity. It is wasteful and also a nuisance and expense to the public at large.

Loss to the owner is due to incomplete combustion of the coal, which may represent as much as forty per cent. of the fuel heat value.

The disadvantage to the public is due to the presence of soot and objectionable fumes in the atmosphere. The former necessitates expense to the public, due to soiled fabric, etc.

From the viewpoint of health, continuous breathing in a smokeladen atmosphere is conducive to diseases of the respiratory system. Dense smoke prevents the penetration of the sun's rays which have a positive beneficial effect, not only to relieve the otherwise depressing feeling caused by a cloudy atmosphere, but has actual curative properties in certain diseases.

Dense smoke from chimneys, therefore, is uneconomical, unhealthful, and is certainly preventable.

The general public are not only annoyed by the smoke, but also risk unhealthful conditions and pay for the privilege!

There are several ways in which the above mentioned condition may be remedied, viz:

(a) In the Central part of the City, connection may be made to the Central Steam Plant main.

(b) By firing often and lightly and by adopting the coking or alternate method of firing.

The alternate method means firing one half the fire box, thus leaving the other side available for ignition of the gases, as they are distilled from the coal. Excess air over the fuel bed is necessary during the period of distillation especially.

This method of firing is suitable for domestic furnaces also, where soft coal is used.

The coking method consists of firing the coal on the front portion of the furnace. After distillation, the coke is distributed over the rear portion of the furnace and the fresh coal again placed on the front. Provision for excess air over the fuel bed, as in the former instance, is necessary for complete combustion.

(c) By the installation of suitable furnaces constructed specially for the perfect, and therefore, economical combustion of coal.

There are many types of these available, which may be installed to any furnace.

The firms manufacturing these appliances guarantee a worthwhile saving over the handfiring method.

(d) By installation of oil-burning apparatus.

(e) By the use of low volatile coal.

The latter method is far from satisfactory. There are occasions when such fuel is practically unobtainable and Bituminous coal, or in other words, a high volatile coal has to be used.

. Lignite coal mixed with a small proportion of Bituminous coal is often used with good results, but in such instances, constant attention must be given to the firing.

Where there is ample boiler capacity, Canadian Lignite coal is used with excellent results.

Smoke abatement is not a hard problem provided one can have the co-operation and willingness of the owner, or party responsible, and the interest of the general public.

There are times when a change of fuel proves satisfactory. In other instances, regulating the draft and more careful firing suffices. In some cases a high ash coal is consumed on grate bars having very narrow air spaces and in others, the method of firing and too free use of the slice bar causes clinker to form over the grate area, thus preventing the passage of air.

Overloading of boilers is a common cause of smoke emission, owing to insufficient volume of air in comparison to the quantity of coal consumed per square foot of grate area.

In many instances the combustion space is too small—the gases distilled from the coal being cooled by contact with the boiler plates, before combustion commences. Excess air over the fuel bed is necessary in all cases of handfiring so that the oxygen of the air may unite with the distilled gases.

Conditions vary in different plants and it is only by careful study of the installation that satisfactory results can be obtained.

It will be understood that all the above mentioned methods of reducing the smoke density rely to a great extent on the intelligence and interest of the fireman and this is one of the principal reasons why there are recurrences of the smoke nuisance at various plants.

There have been many instances during the past Winter where Bituminous coal was substituted in place of Semi-Bituminous. The latter is a low volatile fuel and can be fired with very little smoke re-

sulting. Moreover the cost is higher than the former. That coal, other than ordered, was being delivered, was noticed only when the objectionable smoke emission was brought to the owner's attention.

It would appear that both Owners and Agents of Apartment Blocks keep better check on fuel costs than was the case a few years ago. If they further investigated the condition of their heating plants, relative to air leaks in boiler settings and general maintainance, the results would be worth while. It would be to the owners interests to appoint a person competent to supervise their boiler rooms generally and keep a check on the fuel supply during the Winter months, both as regards quality and economical firing.

Low chimneys have been the cause of many complaints. Where it is possible and reasonable to insist on such chimneys being extended, we do so. In other instances we insist on the use of a low volatile coal.

The increased use of soft coal in place of anthracite, which was formerly used, is very noticeable in the atmosphere, creating very objectionable conditions especially when a high relative humidity prevails.

Another objectionable feature has been the use of Bituminous coal in domestic furnaces and advocated by some coal dealers, who apparently have no further interest than to sell coal.

There are very few domestic furnaces suitable for such coal and the use of same results in a thick coating of soot being deposited on the heating surfaces and interior of the smoke pipes. This is uneconomical and, moreover, is a constant fire hazard.

The nuisance created by smoke from Locomotives and Roundhouses continues. In the absence of the necessary legislation, we are powerless to insist on improved conditions better established. Public sentiment will eventually compel the Railways to permanently relieve the districts affected by smoke.

There has been the usual quota of complaints due to defective hot-air furnaces.

The defects found are generally broken fire pots, defective joints of same, or in the combustion chamber, and radiation flue. Improper smoke pipe connection to furnace, defective casings and smoke flues, and dangerous position of smoke pipe dampers are often found. Burnt out grates and fittings cause considerable trouble, as in such instances the furnace cannot be used, resulting in partial heating of the premises by a small stove and subsequent freezing of the plumbing.

A defective furnace may be the cause of serious unhealthful conditions and more attention should be paid by owners of property to ensure the protection a tenant is entitled to.

Inspections relative to other Departmental work were carried out in addition to smoke abatement duties.

Your obedient servant,

P. PICKERING, Smoke and Supervising Inspector

Report of Chief of Street Cleaning Division

A. J. Douglas, Esq., M.D.,

Medical Health Officer.

Dear Sir:

I beg to submit herewith the report of the Street Cleaning and Scavenging Division for the month of December, 1926.

Under the provisions of By-Law 12122 of the City of Winnipeg, passed November 29th, 1926, the work of Street Cleaning and Scavenging was placed in your care.

During the month the following work was performed.

Garbage Collection	No. Loads		Gross Cost
	Collected	Weight	Per ton.
City Teams	. 79	178,870 lbs.	\$5.46
City Singles	. 96	155,880 lbs.	4.85
Trucks and Trailers	. 1,008	2,795,440 lbs.	4.41
	1,183	3,130,190 lbs.	100
Tin Collection	No. Loads		Gross Cost
	Collected	Weight	Per ton.
City Teams	. 83	186,870 lbs.	\$5.42
City Singles	. 82	137,100 lbs.	4.59
Trucks and Trailers	. 138	409,090 lbs.	3.89
	303	733,060 lbs.	
Night Soil Collection	No. Loads		Gross Cost
	Collected	Weight	Per ton.
City Teams	. 44	176,000 lbs.	\$3.66
Ash Collection			
	No. Loads	No. of	Gross Cost
	Collected	Cu. Yds. P	er. Cu. Yds.
Hired Teams	880	4,400	.54c
Trucks	271	1,720	.66c
Crematory Operation			Gross Cost
Incinerator No.		efuse Revenue ed Earned	
No. 2 Elmwood	1,810,360	lbs. \$201.79	\$1.01
No. 3 Saskatchewan	. 1,695,600	lbs. 131.50	1.06
-			

3,505,960 lbs. \$333.29

Close Co-operation was maintained between this Division and the City Engineer's Department, which resulted in this Division hiring out its surplus men and teams for snow work.

Respectfully submitted,

E. A. WOOD, Chief, Street Cleaning Division.

Report of Chief Dairy Inspector

A. J. Douglas, Esq., M.D.,

Medical Health Officer.

Dear Sir:

I have the honor to submit herewith a report covering the work of the Dairy Division for the year 1926.

The Dairy By-law adopted in the Spring of 1922 is now in its fifth year of operation and, while we may have discovered small discrepancies in its working, nothing of a serious character has developed.

The Federal Department of Agriculture is continuing with the tuberculin test on all licensed dairy herds and this includes all privately owned cows in the City. This work goes on without friction and no complaints have been registered in regard to same.

A very small number of complaints have been received concerning milk and dairies, and these have all been settled to the satisfaction of those concerned.

The most noteworthy happening of the year was an outbreak of milk-borne typhoid which demonstrated not only the latent danger from possible carriers to a raw milk supply, but also illustrated the great value of pasteurization as a preventive.

Dairy produce manufacturers located in the City, including milk plants, creameries, ice cream plants, and cheese factories, are apparently doing an increased volume of business indicating a return of prosperity.

Milk Production

Those who have studied the agricultural returns of any of the Prairie Provinces during the past few years will have been struck with the references to the increases in dairy cattle, to the increased export of creamery butter, and the great efforts that are being put forward with a view to securing standardization, and high quality in all dairy products.

General conditions applying to milk production have changed so rapidly during recent years, that the possibility of a shortage, diversion, or tie-up of visible supply is no longer given consideration, and the only problem of an economic character requiring thought is that involved in the final disposition of the large volume of milk produced in those districts adjacent to Winnipeg from which we obtain the bulk of our supply; and this applies in a lesser degree to the entire province; in fact the three prairie provinces all come into the same category.

There are many thousands of dairy farmers outside the zones from which this City draws its milk, and these along with many of those inside the milk zones do not ship fluid milk, and therefore can only calculate on a cream-butter-fat basis in arriving at any valuation of their operations. Fortunately the Prairie Provinces have built up a great export trade in creamery butter of such high quality that butter fat prices have been kept at a reasonably high level, and the dairy farmer who, from any cause, finds himself tied to this method of deriving income has no cause for regret, as there is nothing he can produce on his farm the price of which is so well stablized, and the returns from which are so prompt and regular as butter fat.

Many other advantages are enjoyed by the cream shipper; he does not have to convey a load daily to the station; the more bulky and less valuable portion of his product is kept home; the skim milk being fed to pigs, calves, chickens, etc., and in this way other farm problems are assisted and rounded off.

We understand that the number of Dairy Farmers in the province of Manitoba has increased by several thousand during the past year, not entirely due to new-comers, but partially due to that steady trend from grain farming to mixed farming which has been prevalent for many years.

Mixed farming and dairy farming are so closely related and interwoven that in most cases no distinct classification could be made, and this condition is highly desirable if we expect to see permanent homes spread over our rural districts.

A good system of mixed farming carrying a dairy herd large enough to bring in some worth while return, but not so large as to make the dairy a drudge, appears to be the most conducive to the building up of permanent farm homes; and also appears likely of solving that problem, as to how the young farming community may be kept on the land.

The past year has certainly been hard on the producer. The dry summer with resulting light hay crops, and poor fodder crops, followed by an exceptional wet fall season which made the roads in most cases almost impassable, and caught many in the middle of harvest, brought about conditions which can only be described as heart-breaking. The early advent of what proves to be a hard, long Winter could not make things look any worse. Yet in spite of these adverse conditions, the dairy farmer, knowing that feed would be dear and expenses heavy, and without any promise of increased compensation for his efforts, faced the situation bravely, and although Spring may still be far away, we know he will come through smiling.

City Milk Supply

Very few cities enjoy like Winnipeg the exclusive privilege of drawing upon such a large productive area for a steady supply of milk, cream and other farm commodities; and it was this condition which enabled us a few years ago to bring into effect advanced regulations which improved the quality, methods of production, and handling of milk to a great extent, without any visible curtailment in quantity. In fact, these regulations may be said to have played a major part in creating the present stabilized condition which has existed now for the past two years.

During the deflation period and immediately following, producers were apt to feel a slight resentment at the fall in prices, and some agitation was evident with the idea of pressing for changes which might squeeze a little more income for the producer at the expense of the consumer.

The milk producers, however, were well advised, and taking stock of themselves, decided to devote their energies towards increased prorata production, by building up good dairy herds and growing suitable fodder crops; eventually finding that while they could not get an increase per gallon, yet they were able to get more revenue per cow, and at the same time create a small saving on the cost of feeding.

The City's regulations require that all milk distributed raw must be from tuberculin tested herds, and that all other milk shall be pasteurized.

Approximately 1,200 farmers are engaged in the production of milk and table cream for the use of our citizens, and of these 125, including two Certified Milk Farms, are licensed distributors of raw milk. The balance consisting of 725 milk shippers, and 350 cream shippers, send in their product to the large pasteurizing plants.

The City requires daily about 15,500 gallons and this is distributed by the 125 raw milk vendors, 2 large pasteurizing plants, and 5 small depots, 4 of which handle pasteurized milk and cream only. In addition to supplying the City, the pasteurizing plants distribute about 1,500 gallons, and the raw milk vendors about 500 gallons in the adjacent municipalities.

Approximately 200 private cows are kept inside the City limits and these are all tuberculin tested.

The licensed dairies are located at distances ranging from 5 to 15 miles from the centre of the City, while the milk shippers are located from 10 to 75 miles away, and the sweet cream shippers from 25 to 125 miles.

In addition there are from 10,000 to 20,000 farmers shipping cream steady or intermittently to the various creameries in the City, this being for butter making purposes; and each of these is a potential table cream shipper; and each table cream shipper is a potential milk shipper.

At the present time there is a huge waiting list made up of cream shippers who are ready to switch on to milk anytime as required.

This is a healthy condition, and everybody has a ready market for his produce, the creameries being prepared to handle twice or thrice the amount they at present receive and the system of grading employed by the Dairy Branch of the Provincial Department of Agriculture ensures fair treatment to everybody, and awards suitable remuneration as a premium to those taking extra good care of their produce.

Milk Vendors Licenses

Our regulations provide for two classes of licenses only:-Dairy license and Milk Depot license; the former applying to those vendors

CITY HEALTH DEPARTMENT

who distribute the product of their own dairy herd, and the latter applying to those who purchase their supply, having same delivered at a properly equipped plant where it is prepared for distribution. The license year ends May 31st, so that the period under review covers the balance of the year to December 31st. Very seldom, however, do we have any applications between New Year and Spring so that given figures practically apply to the year.

During the license season, 125 Dairy licenses based on 3,463 milch cows, and 8 Milk Depot licenses based on 178 vehicles were issued; while two dairies and one depot dropped out of business before the end of the year leaving the number in active operation at 123 and 7 respectively, or a total of 130 against 136 for 1925.

This loss of 6 is accounted for as follows:

Two of our poorest class dairies decided early in the year to relinquish their business, while two more of indifferent character decided to confine themselves to production, and two disposed of their herds during this Winter, evidently finding themselves going behind, and occupying rented premises they made an easy get-out.

Five licenses were transferred during the year.

Revenue derived from license fees amounted to \$2,802.00, based on the following particulars:

Dairy Licenses 125-	-1,247 c	ows @	\$1.00	\$ 1,247.00
	2,216	" @	50c	 1,108.00
Milk Depots 8-168	vehicles	@ \$2.	00	 336.00
10	" @	\$10.0	0	 100.00
Transfers-4 @ \$2.0	00; 1 @	\$3.00	· · · · · ·	 11.00

\$2,802.00

Classification of Licenses

	1922	1923	1924	1925	1926
Licensed Dairies, raw milk	104	114	119	129	123
Milk Depots, raw milk	2	2	2	1	1
Milk Depots, pasteurized milk	2	2	2	4	4
Pasteurizing plants (large Depots)	2	2	2	2	2
Total	110	120	125	136	130

The Licensed Dairies

These dairies have grown up with the City and several of them have been in business for 25 or 30 years. While many started on a very small scale with a few cows in a cow-shed on the rear of a City lot, they have relocated themselves from time to time as the City expanded until they are almost all pushed well outside the City Limits. The small insanitary cow-shed has developed into a sanitary stable, with concrete floors, steel stalls, water bowls, and with adequate drain-

age, air space, light and ventilation, while the scrub cow and the tubercular cow have been replaced with good grade Shorthorn and Holstein cattle all subjected to the tuberculin test and kept free from disease.

We have sometimes been criticized as to our attitude in regard to this large use of raw milk, but it must be remembered that we have passed through several critical periods when injudicious action could easily have wiped half (of what at the best was a totally inadequate supply) clean off the map. Out citizens are at least assured of an adequate wholesome supply of milk at a reasonable cost, and that the necessity for importing milk, or using made milk, or going on short rations, will not again come into evidence.

Pasteurizing Plants

Milk plants of large capacity are considered necessary in order to maintain successful operations regarding the handling, pasteurization, bottling, storage, and distribution to the consumer of a high class product. In order to cope with the ever increasing demand for improved machinery and equipment it is necessary for a plant to have substantial financial backing and that men of vision and initiative should direct its policies and affairs. Winnipeg is fortunate in having two such plants whose business is largely retail, and one smaller plant engaged chiefly in pasteurizing milk and cream for the wholesale trade.

We are glad to note a small increase in the proportion of pasteurized milk consumed, and we trust that this is only the first fruits gleaned from the educational campaign, and the great efforts put forth by the pasteurizing interests to provide the public with a first class uniform product with the maximum degree of safety.

The public requires to be educated to the use of pasteurized milk, and where a large proportion of such public consists of those born or raised in rural areas, this problem is more difficult than would be the case in an old industrial centre; and we may here remark that no advertising or educational campaign will be successful unless backed up by goods of a high quality.

Large milk plants have many advantages both for themselves and the public; they employ technologists of high standing, their laboratories are well equipped, and in addition to milk they handle and prepare whipping cream, coffee cream, cultured buttermilk:—Bulgaricus and Acidophilus; they manufacture butter and cottage cheese and are prepared to take care of any emergency requirements at a moment's notice.

Certified Milk Farms

There are two Certified Milk Farms producing milk under special regulations and supervision of the Provincial Board of Health. They produce and bottle ready for distribution the highest class of raw milk obtainable and under certain rigid requirements as to cleanliness and sanitation, medical examination of employees, and laboratory control, while the herd, in addition to the usual tuberculin test, is examined periodically by a Veterinary Surgeon and all suspicious animals isolated or weeded out.

Certified milk farms require all the encouragement possible, as their milk is produced and handled under expensive conditions, and each farm employs a technical expert as manager.

The two large City milk plants handle the distribution of certified milk and few cities are so fortunate as to have two such fine farms engaged in this exclusive business. All credit should be given to those gentlemen who have given their time and money towards the fostering of these enterprises. That the stringent conditions are conformed to, is amply demonstrated by our periodic bacteriological examinations, which invariably reveal a low plate count as the normal condition of "Certified Milk."

The Distribution System

A total of 335 delivery wagons are employed in delivering milk to the consumer, of which the Milk Depots control 178 and the Licensed Dairies 157. With the exception of wholesale or bulk delivery the pasteurizing plants deliver the whole of their product in bottles, employing horse-drawn vehicles. Of the licensed dairies 10 bottle the whole of their product, and about 50 bottle a portion only, the balance being delivered in bulk. A number of these employ motor trucks even for retail delivery.

Tuberculin Test

The tuberculin test of all dairy herds supplying raw milk to the consumer, including the Certified Milk herds, is carried on continuously by the Veterinary Inspectors of the Federal Department of Agriculture, and the plan appears to be acting smoothly, without friction and to the satisfaction of all parties concerned.

The manure problem was taken well under control and many objectionable features eliminated, with a result that no recent recurrence or throwback in the shape of an outbreak has happened. Isolation accommodation of some description has been provided for most herds, and annual losses have now reached a practical minimum, which may be considered as normal on account of the large number of additions and replacements taking place in these herds almost continuously. We expect this condition to continue until such time as the restricted areas are sufficiently enlarged so as to provide a steady source of supply for dairy cattle to those wishing to replenish their herds.

For the year ending March 31st, 1926, a total of 7,003 cattle were subjected to the tuberculin test, involving 129 dairy herds. Of this number, 3,419 cattle were subjected to a first test, while 10,373 retests were made, making a total of 13,792 tests for the year.

Dairy herds brought under the test	129
Clean herds at last general test	99
Cattle tested during the year	7,003
Cattle submitted to a first test	3,419
Re-tests conducted	10,373
Total tests conducted	13,792
Reactors slaughtered	901
Open cases of T.B. slaughtered	2
Compensation paid for reactors\$28	8,768.16

From the above it appears that only 30 herds at the last general test contained reactors, and that the bulk of the reactors occur among the additions.

Milk Consumption

Approximately 15,500 gallons of milk are consumed daily in Winnipeg this being an increase of 250 gallons over the previous year. The increase in population and a slight increase in per capita consumption practically accounts for the increased gallonage. The amount of cream consumed is approximately 1,275 gallons, giving us a ratio of 12 gallons of milk to each gallon of cream.

Classification of Daily Supply

Pasteurized milk		8,820 gallons	57%
Raw, from tuberculin tested	cows	6,370 gallons	41%
Certified milk		310 gallons	2%

Total fluid milk15,500 gallons

Pasteurized cream 8,400 half pints \pm 525 gallons Raw cream 1,600 half pints \pm 100 gallons Pasteurized cream,

bulk 10,400 half pints \pm 650 gallons

Total cream 20,400 half pints \pm 1,275 gallons

Consumption and Distribution

	Pints per capita		Gallons per day	Delivery Vehicles
1919	0.52		13,000	 230
1920	0.54		13,000	 220
1921	0.55	******	13,500	 240
1922	0.58		14,500	 275
1923	0.60		15,000	 300
1924	0.62		15,250	 315
1925	0.62		15,250	 _ 330
1926	0.63		15,500	 335

Daily Per Capita Consumption

Fluid Milk only, Imperial measure0.63 pin	nts
Milk and Cream basis, Imperial measure0.83 pin	nts
Fluid Milk only, U. S. measure0.79 pin	its
Milk and Cream basis, U. S. measure1.04 pin	nts

Quality of Milk

The quality of milk and cream as supplied to the consumer has been maintained at a fair average standard throughout the year. All suspicious cases were closely checked, and although several were tested to determine if extraneous water had been added, in no instance was this found to be the case. In seven cases where subsequent tests revealed the persistence of a low butter fat content, Police Court Proceedings were instituted and convictions obtained; each sample showing evidence that cream had been subtracted either by negligence or with intent. Considering that around 2,000 samples were examined for solids, we have no doubt but what the results obtained indicate that the bulk of the milk consumed is of good quality. In no case did we find any evidence of adulteration and the sediment test reveals that with a few exceptions the milk is reasonably clean, while bacteriological examinations again show a wonderful improvement.

Bacteria in Milk

When we speak of bacteria in milk, we have to be careful, and not cause undue alarm to those who look with suspicion upon anything which they are given to understand may harbor bacteria.

We must remember that milk would not be natural without its complement of bacteria of a harmless nature; but that the milk plant handler in order to check or prevent deleterious organisms being conveyed to the consumer, has of necessity to apply the same repressive measures to whatever organism happens to be present, harmless or otherwise, and that cultured milks which have many virtues derive their beneficial properties from special pure cultures of certain organisms with which the milk is impregnated.

Laboratory Plate Counts have come in for criticism during recent years on account of their many variations. We have never taken actual results too seriously, but have merely used them as furnishing a comparative indication of that particular day's samples, and in most cases our results are normal; whereas should any adverse condition cause an abnormal result, the same may apply to the entire batch, and no stigma would attach itself to any one sample.

We do not consider that an exceptional low count should constitute the hall mark of perfection, nor do we consider that a very high count should justify condemnation, and in order that no milk vendor may reap an unfair advantage or suffer an undeserved disadvantage, we issue no reports on single examinations. In fact we issue the entire year's results of each individual milk under examination in one report on a single sheet, so as to ensure that the entire report only can be exhibited or made use of; and the interested vendor gets

his own report only. We have adopted a regular system to embrace those supplies from which we are able to get some worth-while results; and should any vendor prove uninterested and careless, or be one of those who do not, and apparently don't wish to understand the significance of this work, he is dropped from the list, and some more appreciative vendor takes his place. There is a limit to the amount of service of this character which we can give, and our desire is to allocate such service where it is likely to be of most benefit. Of recent years, however, we have increased the scope of this work, as we realize that it is perhaps the most important phase of milk examination.

Last year we mentioned that not so long ago plate counts as low as 5,000 or 10,000 were almost unknown in our field of operations. Such counts are now quite frequent, and this year we had some as low as 2,000 and a few odd cases at 1,000.

The samples are taken at about the average time of delivery to the consumer, wherever possible an unopened whole bottle being taken and conveyed in a suitable container to the Laboratory. Each Inspector takes no more than four samples and his vendors are grouped so as to ensure quick action once the first sample taken.

The bulk of our operations during the past year were confined to what we considered the 30 best milks supplied, as it was desirable to obtain a few continuous records rather than a mass of indefinite information which would have little value.

From these 30 sources, 306 samples were taken and these may be classified as follows:

	Vendors	Samples
Pasteurized milk	4	78
Certified milk		41
Raw milk, Special	2	26
Raw milk, Good Dairies	22	161
	—	
Total	30	306

Most of these milks had their good showings, but the Certified and Special milk, and one or two ordinary raw milk dairies, gave a very good showing, and in some cases had practically an uniform low count for the entire year; which goes to prove that the whole secret of a low count rests on the intelligence and individuality of the management.

Plate Counts-1926

Col	loni	es																s	amples
1	to	1,000																	3
1,001	to	2,000			•														8
2,001	to	5,000	,														•		41
5,001	to	10,000								-		•							45
10,001	to	25,000																	6.0
25,001	to	50,000																	51
50,001	to	100,000																	37
100,000	or	over				•	•			•									61

59

Out of these 306 samples, 157 had a count of 25,000 or less and we all know that a count of 25,000 is fairly reasonable, so that we certainly cannot complain in regard to these results. Of course we must remember that these are selected supplies and that we expect them to be good.

During the same period 132 samples were taken at random from the numerous other sources, chiefly raw milk dairies, and these gave plate counts varying from 25,000 to 250,000 and enabled us to select those to whom the regular service would be of advantage.

These results also pointed out those who have much to learn in regard to the handling of milk, or are careless in regard to such things as cleanliness, cooling and suitable storage for milk.

It has been clearly proved, however, and our results confirm the finding that even under primitive conditions the exercise of suitable care, may result in the production of a low count milk, and that no amount of sanitary equipment will do this unless under the direction of a suitably trained individual who takes nothing for granted, but gives strict personal supervision to all operations; and we believe that the time is not far distant when all milk will be subjected to absolute bacteriological control before it is allowed on the market.

Sickness and Milk Borne Outbreaks

During the year we conducted 40 special investigations in regard to sickness reported as existing on dairies, including 22 cases of communicable diseases, and 18 cases of a non-communicable character. In many cases we find that the dairymen themselves, being fully alive to the danger, have already taken such precautions as isolation and prompt medical attention, or removal of patient from the dairy to hospital. On four occasions it was considered expedient for the dairyman to have his milk pasteurized for periods of 10 to 30 days until we were satisfied that all risk of possible infection was over, and during this period the remaining members of the household were kept under close observation and treated with anti-typhoid vaccine, or anti-toxin as the case might be, and subjected to such tests as were deemed necessary.

In the meantime a thorough disinfection of everything in connection with the home and dairy, including sterilization of all milk receptacles—cans, pails and containers, is performed; and while hot water or steam is considered a good sterilization agent for such utensils, our experience teaches us that a suitable solution of sodium hypochlorite is more direct in its action and easier to apply, and for that reason it is more likely to ensure all utensils similar treatment.

In no case where an actual typhoid fever, scarlet fever, or diptheria patient was removed from a dairy did we have any trouble or suspicion that the milk route was affected; but we go on applying all precautions because in past years we have not always been so lucky.

A milk borne outbreak where a case is discovered at the dairy is generally easy of solution; but where an outbreak on a milk route is caused by an unrecognized carrier, then the procedure is more difficult

as the case can only be built on circumstantial evidence. The typhoid outbreaks of 1925 and 1926 furnished typical examples of this class, and give interesting illustrations of the difficulties encountered.

Consumption of Dairy Produce

Increases in per capita consumption of all lines of Dairy Produce have been accomplished during the past seven years, not only by the use of advertising and similar propoganda, but by improving the quality to such an extent that increased consumption followed.

Thus in 1919 the annual consumption of milk, cream and butter per capita was 25 gallons, 2¼ gallons, and 25 lbs. respectively, while in 1926 these figures have increased to 30 gallons, 2½ gallons, and 35 lbs., and the peculiar feature of this condition is, that the average citizen has no idea that this increase has taken place even in his own household. It is a healthy condition; milk and milk products constitute the cheapest and yet the most valuable of foods, containing everything that is necessary for the building up of the human body.

The ice cream trade has also experienced quite a rise, and while we have no local statistics available, U. S. returns show that in 1910 the annual per capita consumption of ice cream was approximately one gallon; in 1916-17 this was increased to two gallons; in 1921 to $2\frac{1}{4}$ gallons; in 1924 to $2\frac{1}{2}$ gallons and in 1925 to 2.8 gallons, being an increased consumption in 15 years of 275%. This increase may be credited to the improved quality and to the nation-wide educational campaign dealing with the food value of ice cream, and its place on the table at all seasons of the year.

In 1925 the total ice cream consumption for the United States is given as 322,729,000 gallons, and there is not much doubt but that Canada will follow along similar lines. In fact, the city dweller should consume more ice cream in order to keep pace with his country cousin who consumes more of the natural product.

Dairy and Milk Inspection

City Inspections numbered 5,223 in 1926 as against 5,182 for the previous year, the figures for country inspections being 1,932 and 2,024 respectively. Dairy Inspectors travelled 10,062 miles in the country as against 7,745 miles in 1925.

Dairy inspection implies examination of dairies, and the conditions under which milk is produced and handled on the farm.

Milk inspection implies examination of the product at the point of distribution, and while with our improved knowledge, we are able in many instances to find in the product as delivered, evidence of careless methods at the farm, yet we cannot definitely prove such to be the case.

No amount of examination of the finished product will ensure that proper care has been taken in production and handling. Milk inspection can certify as to the quality and wholesomeness of the milk or cream, but it cannot guarantee its freedom from contamination or deleterious organisms; nor in the case of an apparently clean milk can we judge how much dirt or even filth has been removed by means of straining, filtration or clarification.

The argument may be used that Inspectors cannot constantly attend each dairy in order to ensure observance, but this would apply to all classes of inspection.

Successful inspection depends on the co-operation of those parties coming under such inspection, and the very fact that an Inspector is liable to call around, and occasionally does so at irregular intervals, undoubtedly has a wholesome effect.

The milk producer is only human, he does not relish adverse criticism or reports; and the fact that he does not know when he may be visited creates an atmosphere of preparedness which must be of benefit to the consumer.

The City authorities in the early days recognized the importance of Dairy Inspection in its appointments, and at a later date inaugurated Laboratory examination of the product as delivered.

Of recent years, the tendency has been to drift more towards milk inspection, and this shows as an increase in City Inspections, and a decrease in Country Inspections. Milk tests and examinations for the year just ended numbered 4,011 as against 2,823 for the preceding year, and included 1,847 milk and 113 cream tests for butter fat and solids; 438 plate counts; 1,179 sediment tests; and 434 chemical tests.

The apparent advantage of conducting such a large number of tests consists in the continuous check on the product of all vendors, which ensures the maximum quality to the consumer.

On the other hand milk examination does not detect the tubercular cow or the cow with a diseased udder; it does not detect contamination with manure or flies which have been removed by straining; nor does it detect infection of the milk with the organisms causing various diseases which may be spread by the agency of milk either through cases or carriers.

These are things which can only be controlled at the fountain head. The health of the animals, of the family and employees must be ascertained by a visit to the farm; and a few such visits quickly gives an Inspector a fair idea as to the methods employed.

Should anything of an unusual nature occur such as faulty milk, or sickness on the route which appears to warrant an investigation, then the farm is the only logical place from which to commence such investigation, and it is there that all precautionary measures must be instituted.

Milk and Dairy Inspection 1925-26

Comparative Statement

	1925	1926
Cow keepers stables inspected	712	543
Dealers and Sales stables inspected	53	72
Pasteurizing apparatus inspected	313	266
City Milk Depots inspected	106	94
City Creameries inspected	484	514
Delivery vehicles inspected	3,302	3,598
Special City Inspections	212	136
Total City Inspections	5,182	5,223
Licensed Dairies inspected	1,595	1,533
Milk and Cream Shippers inspected	219	165
Milk and Cream Stations visited	8	19
Country Creameries	7	10
Country Milk Depots	47	34
Special Country inspections	148	171
Total Country Inspections	2,024	1,932
Milk tested for Butter Fat	1,181	1,847
Cream tested for Butter Fat	111	113
Special Plate Counts	367	438
Sediment Tests	830	1,179
Chemical Tests	334	434
Total Tests and Examinations.	2,823	4,011
Milk and Cream condemned (lbs.)	9,794	8,603
Notices issued	1,050	1,305
Sickness Investigated	31	40
Mileage Country	7,745	10,062

Health and Milk Costs

The statement has sometimes been made and often repeated that Health Officials need not be concerned regarding the price of milk; that whether milk is scarce or plentiful and prices exorbitant or reasonable, officials should have no opinion on the matter and should merely interest themselves in safeguarding the health of the people.

We do not claim that an official should take such a direct interest in prices as to attempt control or even to go so far as to suggest what prices should prevail; but we do claim that where officials by imposing repressive or drastic regulations, which may curtail, or adversely affect the visible supply; then such officials are indirectly interesting themselves by being party to a situation which may cause an increase in price. On the other hand the lack of suitable regulations, or the enforcement of same may result in an abundant supply of cheap milk of a very inferior quality as regards cleanliness and safety. Unreasonable high prices curtail consumption, and this results in under-nourished children who are not given a fair chance to develop that growth and physique so necessary for perfect health, and an ability to withstand attacks of pathogenic organisms; and this should be all the proof required to show that the Health Official is interested in prices.

During recent years many cities and communities have put on milk campaigns with a view to increasing the consumption of milk especially among children, but such campaign would be of no value if the producer was not prepared to immediately provide the extra amount required; and where improved regulations are found necessary, the wise authorities are those who first assure themselves that an abundant supply is in sight, with sufficient surplus to take the place of that supplied by the impossible producer; and in addition there must be sufficient to take care of the increased consumption due to the improvement in quality, cleanliness and safety brought about by such regulations.

1926 Prices of Pasteurized Milk, bottled delivered to Consumer. 24 U.S. cities per 32 oz. Quart; 13 Canadian cities per 40 oz. Quart.

end cruce per on on gunre,	10 000		creace In		en Same
	Jan.	Mar.		Sept.	Dec.
Birmingham, Ala	18	18	18	18	18
San Francisco, Cal	14	14	14	14	14
Denver, Colo	12	12	12	12	12
Hartford, Con	16	16	15	16	16
Washington, D. C	15	15	14	15	15
Miami, Fla	30	28	25	25	25
Chicago, Ill	14	14	14	14	14
Indianapolis, Ind	12	12	12	12	12
New Orleans, La	14	14	14	14	14
Baltimore, Md	14	13	13	13	14
Boston, Mass	14 1/2	141/2	13 1/4	14 1/2	15
Detroit, Mich	14	14 -	14	14	14
Minneapolis, Minn	12	11	11	11	11
St. Louis, Mo	13	13	13	13	13
Atlantic City, N. J	14	14	14	13	15
New York, N. Y	15	15	15	15	15
Cincinnati, Ohio	12	12	12	12	14
Portland, Ore	12	12	12	12	121/2 .
Pittsburg, Pa	141/2	14 1/2	13	14	15
Newport, R. I	14	15	15	15	15
Salt Lake City, Utah	101/2	101/2	10	10	101/2
Richmond, Va	14	14	14	14	14
Tacoma, Wash	121/2	121/2	121/2	121/2	121/2
Milwaukee, Wis	10	10	11	11	11
Victoria, B. C	$12\frac{1}{2}$	121/2	121/2	121/2	121/2
Calgary, Alta	11	11	11	11	12
Edmonton, Alta	12	12	10	12	13
Saskatoon, Sask	12	12	12	12	12
Regina, Sask	13	13	12	12	13
Winnipeg Man	12	12	12	12	12

Fort William, Ont	Jan, 12½	Mar. 12½	June 12½	Sept. 12½	Dec. 14
Brantford, Ont	12	12	111/2	111/2	111/2
London, Ont	10	10	10	10	11
Hamilton, Ont	13	13`	11	12	13
Ottawa, Ont	11	11	10	10	11
Toronto, Ont	14	14	13	13	14
St. John, N. B	14	14	14	14	14

Milk Prices for December, 1926 Adjusted Comparatively

		-	
	Price	Adjusted to Imp.	Adjusted to U. S.
		Quart Basis	Quart Basis
Birmingham, Ala	18	221/2	18
San. Fransisco, Cal	14	17½	14
Denver, Colo	12	15	12
Hartford, Conn	16	20	16
Washington, D. C	15	181/2	15
Miami, Fla	25	31	25
Chicago, Ill	14	17 1/2	14
Indianapolis, Ind	12	15	12
New Orleans, La	14	17½	14
Baltimore, Md	14	$17\frac{1}{2}$	14
Boston, Mass	15	181/2	15
Detroit, Mich	14	171/2	14
Minneapolis, Minn	11	131/2	11
St. Louis, Mo	13	161/4	13
Atlantic City, N. J	15	18 1/2	15
New York, N. Y	15	181/2	15
Cincinnati, Ohio	14	17 1/2	14
Portland, Ore	121/2	$15\frac{1}{2}$	121/2
Pittsburg, Pa	15	181/2	15
Newport, R. I	15	181/2	15
Salt Lake City, Utah.	101/2	13	101/2
Richmond, Va	14	$17\frac{1}{2}$	14
Tacoma, Wash	$12\frac{1}{2}$	$15\frac{1}{2}$	121/2
Milwaukee, Wis	11	131/2	11
Victoria, B. C	121/2	121/2	10
Calgary, Alta	12	12	9 3/4
Edmonton, Alta	13	13	101/2
Saskatoon, Sask	12	12	9 3/4
Regina, Sask	13	13	101/2
Winnipeg, Man	12	12	9 3/4
Fort William, Ont	14	14	11 1/4
Brantford, Ont	11½	11 1/2	9 1/4
London, Ont	11	11	9
Hamilton, Ont	13	13	$10\frac{1}{2}$
Ottawa, Ont	11	11	9
Toronto, Ont	14	14	111/4
St. John, N. B	- 14	14	111/4

Milk Prices

The preceding tables give particulars of price paid by the consumer in twenty-four United States Cities and thirteen Cities in Canada. The larger portion of all milk consumed in these cities is pasteurized and delivered to the consumer in bottles; for which reason we have taken the price per quart of pasteurized milk delivered as the basis of comparison.

Cities whose population runs into millions, naturally have a higher price and this condition also applies to those cities situated in large industrial districts, to those isolated away from sufficient farming or productive areas, and to those which have developed so rapidly that productive effort was unable to keep pace.

Strange though it may appear to others, in those cities where a virtual monopoly of milk distribution exists, prices are considered reasonable in comparison, and this may be ascribed to the lower overhead and the unification of delivery which enables the distributor to operate on a lower spread.

In making comparisons we must keep in mind the fact that in Canada Imperial measure is used for milk, the quart being approximately 40 oz., while the United States employs Wine measure, the quart being 32 oz.

The Imperial Quart is 25% larger than the U.S. quart, and the U.S. quart is 20% less than the Imperial quart; thus if contents alone are valued milk at 12½ cents per quart Imperial measure would be worth 10 cents per quart Wine measure, and milk at 12 cents per quart Wine measure would be worth 15 cents per quart Imperial measure. For the month of December, 1926

Conclusion

The ensuring of a supply of milk and all other dairy products for a large urban centre is no small undertaking, the total capitalization of all branches being much larger than that pertaining to any other commodity. It is estimated that it requires the combined efforts of 75,000 cows to supply this city; 15,000 cows for whole milk; 7,500 for cream; 3,500 for ice cream; and 44,000 for butter; while on the same ratio 150,000 cows would supply the needs of the balance of the Province.

Butter exported would require 75,000 more cows giving us a total of 300,000 dairy cows estimated in Manitoba. Of course this is only a crude calculation but near enough to give some idea of the magnitude of operations involved.

Milk fed to calves, or manufactured into cheese; cheese and butter imported; cheese consumption in general; powdered milk and condensed milk imported, consumed, or manufactured, are not calculated and if they were, would have little effect on the figures arrived at.

Milk ranks in importance with bread or water in any urban community, and may well be classed as an utility. During early infancy and childhood milk is of paramount importance. Unlike other commodities milk must be produced daily and is more liable to contamination. Milk must be kept under close surveillance all the time. For this purpose trained Inspectors are necessary and these must be men of tact and discernment, familiar with all branches of dairying, and heartily interested in this work.

The staff, though small in numbers, by willing co-operation and team work have contributed in no small measure to such success as we may have attained.

I have the honor to be,

Sir, Your obedient servant, E. C. BROWN, Chief Dairy Inspector.

Dairy Inspection, 1926

Totals	40	266	519	60	50 -	4	15	. 3	10	10	0	4	140	1 6				1 00	17	
Decemper		200		-	434		. 67					4	103		: :				8	119
November		26					4			10		9	80T		: :		1	07		127
October	-1 00	50.		383			9				83		25				~~	1		119
September		50.	00				: :						192						=	
128NØN∀	00 F	18	00	344	61	:	10			-		G	100	4	9	1	1	1	01	
July		18.			10		4						9.3		~		1	57	00	107
əunr		21	-110		10		21					-	115					00	-	
May		67	-		+ 1-		10						21							192
ItraA.		30	20		1 10		00					9	14					9	-	201
Матећ		18	-		110	:	. 8		0		-	1.0	14							186
February		50 L				40	1	•••	22		86		-							
January	346	26	52 0	209	657	184	11	4	36		235	144	10		:		•••	-	11	161
	City Inspections: Cow keepers	Pasteurizers	Creameries	Vehicles	Total	Notices: General	Special	Formal	Verbal	Summons	Total	Country Inspections: Licensed Dairies	Milk Shippers	Cream Shippers	Milk Stations	Cream Stations	Creameries	Milk Depots	Special	Total

68

CITY HEALTH DEPARTMENT

Mileage-Country: Inspector A	250 135 85 470	220 150 110 480	320 250 110 680	415 225 150 790	550 165 90 805	420 300 810	930 30 80 1010	$\begin{array}{c} 770\\ 270\\ 270\\ 1310\end{array}$	990 150 1325	780 125 175 1080	350 152 692	250 155 205 610	$6245 \\ 2077 \\ 1740 \\ 10062 $
Samples: Milk Tested Cream Tested Bacterial Counts Sediment Tests Chemical Tests	97 31 62 31 231	$ \begin{array}{c} 129 \\ 232 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 32 \\ 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Condemnations: Milk, lbs Cream, lbs	400 400	160 160	$\begin{array}{c} 240\\ 240\\ 240\end{array}$	$\frac{1010}{100}$ 1110	$1520 \\ 100 \\ 1620$	150 150	$\begin{array}{c} 320\\ 243\\ 563\end{array}$	$\begin{smallmatrix}&80\\100\\180\end{smallmatrix}$	$\begin{smallmatrix}2020\\80\\2100\end{smallmatrix}$	2030 50 2080	:::	:::	7780 823 8603
Sickness Investigated: Communicable All other cases	14 2 16	:::	:::	:	:	: 67 64	01 01 4	CO 60 H	3 8 3 11	:::	1: 1	г : ^г	22 18 40

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Report of Chief Food Inspector

A. J. Douglas, Esq., M. D.,

Medical Health Officer.

Dear Sir:

I herewith beg to report on the activities of the Food Division for the year 1926.

With the exception of a complaint from an institution boarding their employees, the year was remarkably free from reported illnesses due to the ingestion of food.

When conditions are normal, it is hard to enlist public interest and co-operation. Public Health is like personal health; when one is well it is taken as a matter of course, when one is ill nothing else matters.

The number of places under inspection decreased from 1,929 to 1,903, but still shows an increase of 559 places in the last seven years. There was an increase in the number of bakeries due to a number of bakers starting in business for themselves, and an increase in restaurants, which would seem to indicate that the trying times due to lack of employment for young single men, were being overcome. There was a decrease in the number of grocers, butchers and general stores.

One of the Departmental stores took possession of their new premises equipped with the most modern facilities for taking care of food stuffs.

The extraordinary weather conditions which obtained over the whole American continent were responsible for a large increase in the amount of condemnations. These conditions are reflected especially in Winnipeg, because we are at the end of a long haul, whether from the East or the West.

As an instance of the difficulties under which fruits are handled, we one day last Summer condemned a carload of cucumbers because they had been exposed to a too cool temperature in transit and broke down when exposed to the heat; and on the same track condemned a carload of tomatoes because they were heated.

We were noticeably free from complaints of bad food stuffs sold by peddlers, the publicity last year having had a beneficial effect.

On the other hand conditions which obtained at the North End Market, especially on Saturday nights, were not satisfactory. We attended these markets accordingly, late on Saturday night and four prosecutions for selling unsound fruit, resulting from our investigations, improved matters considerably.

This market has had a natural evolution from a few farmers who used to frequent the yard of a livery barn in the neighborhood, until it takes up the sidewalks of a triangular City block on an Avenue and two Streets.

The City has spent thousands of dollars in unsuccessful attempts to start a Farmers' Market. When, therefore, this developed into a

FOOD DIVISION

market, we extended the leniency which our by-laws allow as regards the sale of farm produce.

Unfortunately some of the near-by store-keepers at once took advantage of this to expose, at all times, and under any conditions, fruit and other products. While we can hardly take exception to the exposure of food stuffs like potatoes, which have to be peeled and cooked, provided thep are raised off the ground away from dogs; the exposure of fruits, which are liable to be eaten without any further precautions, is another matter and the habit of customers handling such exposed food renders it highly desirable that the Regulations governing this should be enforced.

Oysters, oranges and celery, which in past years have at different times given rise to some apprehension on account of contamination or conditions at their source, were this year of the highest quality. This was in a large measure due to the co-operation of the Dominion Government, who require a certificate in one case, or held for inspection before releasing from Customs, in another. These requirements serve to eremplify the mide range of food inspection.

Due to modern methods of transportation and refrigeration, permitting the handling of foods from any climate and country, a knowledge of the conditions under which all foods are grown and handled is necessary.

In addition, a knowledge of the diseases or poisonous insecticide sprays used to cope with these diseases, is also necessary.

As orchards get older and the districts more thickly settled, the practice of spraying will become increasingly common on many food stuffs at present immune and, as during the Winter months we require to import the most of our fresh vegetables and fruit, this phase of the business will assume added importance.

The United States Department of Argriculture, (Bureau of Chemistry), report that fruit growers, marketing agencies, etc., are working on a nation-wide plan to ensure that vegetables and fruits, more particularly pears and apples, will be free from excessive arsenical spray residue.

One of the new features is the use of a Chlorine solution in sterilization of utensils used in the preparation and serving of food stuffs. The solution is used extensively in bottling plants, with good results in sterilizing pipes; and we have had some success with it in disinfecting water troughs in poultry feeding plants. No doubt as time goes on, other uses will be found. The preparation is liquid and certain precautions are necessary as it is affected by exposure to light. It undoubtedly has its uses in the washing of glasses or utensils where fatty matters are not present, and we are undertaking experiments to see whether it might not be advantageous to use it more generally.

Abattoirs

One of the abattoirs changed owners and a large amount of improvements have been done. The fertilizer plant which was antiquated has been removed and steps are being taken to install a more modern plant; and in addition, the whole establishment was renovated inside and out.

At another plant they are installing a dry rendering plant, in order to make a hog, poultry and fox food, which will be a great inprovement over the erstwhile somewhat odoriferous fertilizer.

In addition to the three abattoirs in the City, there are four situated adjacent to the City, all under Federal Inspection. There is also one abattoir outside, operating under a Provincial License, putting up principally prepared meats.

Bakeries

There was an increase of nine in the number of bakeries. These are mostly engaged in pastry making.

No doubt the fact that such goods do not require to be handled, and that they are better able to gauge their requirements, enables them to have fresh appearing goods. Whatever the cause, they seem to increase year by year.

The amount of wrapped bread is approximately 50 per cent. of the output. As there was no wrapped bread during the War, this is rather an extraordinary increase. The efficiency of the bread-wrapping machinery keeps down the cost. The cost of wrapping the different shapes of loaves by hand would be prohibitive, as some bakeries put out 30 varieties of bread.

Bottling Plants

These increased by three. While the weather conditions during the Summer were not such as to indicate any great increase in the demand for soft drinks, there seems to be quite a demand for ginger ales for export.

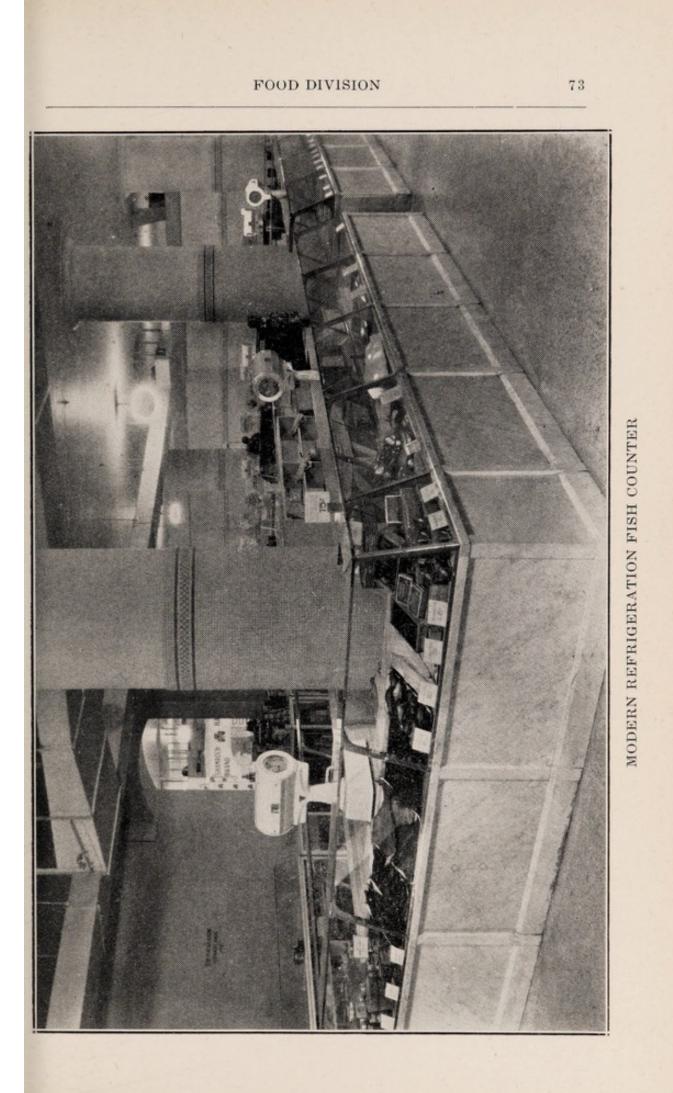
Bacterial counts taken during the Summer indicate that the steps taken to sterilize the bottles are fairly efficient.

Butcher Shops

The butcher stores, while fewer in number, improved in quality. The itinerant butcher, who takes a store for the Winter and moves away in Summer, was not so conspicious. This class of butcher starting in the Fall without any particular equipment other than a bench, a knife and saw, and at a time when meat is naturally cheap is able to sell at less than the butcher who stays in business all the year round and has to provide refrigeration in Summer when trade is slack and unprofitable.

There has been a movement towards the grading of meats. The success which has attended the grading of butter, eggs and poultry, would indicate that it would be a move in the right direction, so that consumers would get the quality advertised. The matter is being given consideration by the Federal Governments of the United States and Canada.

We had several installations of meat counters equipped with glass enclosures and marble slabs. Two of these were supplied with refrigeration. In addition, some stores had their fish counters equipped in this manner with compartments filled with ice for the fresh fish, and instal-



lations attached for sterilizing these compartments. This is a most important point as nothing deteriorates so rapidly as fish, and there is no food which is quite so tasty when properly handled, or so objectionable when improperly handled; in fact the only way for a butcher to handle fresh fish, if he wishes to retain his trade, is to keep the fish under refrigeration all the time.

Condemnations

As indicated before, due to the extraordinary weather conditions, the condemnations increased from 120,371½ lbs. to 179,993 lbs., the increase being practically confined to fresh fruits and vegetables.

With the exception of poultry, the shipments from the country decreased.

In the case of poultry, due to the high price obtaining in the fall, we received shipment from outlying districts where the expenses of marketing have prohibited shipments in other years.

The shipments included quite a number of Tubercular specimens. These were conspicuous by the emaciated appearance of the carcass. and the peculiar dryness and striated look of the skin, the diagnosis being confirmed by the post-mortem examination of the liver and spleen. Altogether, in December, we found it necessary to condemn 185 shipments of poultry.

Complaints

The year was remarkably free from complaints of what is commonly designated as "Ptomaine" Poisoning. In connection with this much abused word it may be pointed out that in an investigation conducted in England, into the causes of 100 cases of Food Poisoning, by the Medical Research Bureau of the Privy Council, in only three cases was there any evidence of decomposition. As Ptomaine Poisoning is the result of the ingestion of the products of proteid decomposition, the inference is that most poisoning cases have their origin in specific bacterial or chemical contamination.

Packing Houses

Premises where no animals are killed but meat goods prepared for sale, were increased in number by the erection of a modern, fireproof plant. Another plant engaged in the canning of chicken products, under Federal Inspection, doubled its capacity and is making quite a name by the quality of its output.

The idea of packing our raw products locally, instead of sending them East to be packed, is a very commendable one, as we save two freight charges, and it is a trite saying that the less goods are handled—the less the chances for contamination, so that we should be able to put up a superior product at the source of supply.

Prosecutions

The prosecutions this year amounted to seven. The increase over last year was directly due to conditions obtaining, as previously mentioned, at the North End Market.

FOOD DIVISION

The reasons for prosecution were: Selling Rancid Butter	1
Selling Unsound Fruit	4
Killing calves in unlicensed slaughter-house	1
Neglecting to keep soda fountain in	
Neglecting to keep soda fountain in satisfactory condition	1
	1

Restaurants

There have been quite a number of changes in the restaurant business. Some of the largest and best known have disappeared and their places have been taken by modern and up-to-date lunch counters; the tendency for a quick lunch being now shared by a feminine clientele.

One is led to wonder just where this fashion of rapid eating is going to lead us, possibly this movement is not unconnected with the rapid increase in nervous diseases and the concomitant prescription of a suitable diet and rest.

Once more I gratefully acknowledge the willing services of Inspectors Foote and Mines.

Respectfully submitted,

ARTHUR RIGBY, Chief Food Inspector.

Premises and Improvements									
Description	Number under Inspection	New Modern	Cement Floors	Renovated	New Plumbing	Remodelled			
Abattoirs Auction Rooms Bakeries Bars Biscuit and Cereal Factories Bottling Plants Brewries Butcher Shops Butter Rooms Candy Factories Canning Factories Cold Storage Plants Confectioners and Ice Cream Parlors Fish Stores Fruit Houses (Wholesale) General Stores Grocers (Retail) Grocers (Wholesale) Hawkers Vehicles	$\begin{array}{r} 3\\ 2\\ 71\\ 6\\ 3\\ 16\\ 5\\ 207\\ 2\\ 21\\ 1\\ 6\\ 53\\ 352\\ 15\\ 36\\ 408\\ 220\\ 27\\ 103\\ \end{array}$	$ \begin{array}{c} \cdot \cdot \\ \cdot \cdot \\ \cdot 9 \\ \cdot \cdot \\ \cdot 1 \\ 2 \\ 1 \\ 3 \\ \cdot \cdot \\ \cdot \\$		$\begin{array}{c} 3\\\\ 36\\\\ 1\\ 2\\ 1\\ 64\\\\ 5\\\\ 1\\ 3\\ 85\\ 1\\ 3\\ 22\\ 61\\ 3\\ 65\end{array}$	··· ··· ··· ··· ··· ··· ··· ··· ··· ··	··· 4 ··· ·· ·· ·· ·· ·· ·· ··			
Hotel Kitchens Jam and Pickle Factories Markets Packing Houses Peanut Butter Factories Popcorn Factories Poultry Slaughter Houses Restaurants Railroad and Express Cos. Sausage Factories Tea, Coffee and Spice Houses Yeast Factories	$ \begin{array}{r} 103\\ 42\\ 7\\ 2\\ 3\\ 1\\ 256\\ 3\\ 15\\ 6\\ 1 \end{array} $	1 1 2 27 	··· ··· ··· ··· ··· ··· ···	16 1 3 177 6 	··· ··· ··· ··· ··· ··· ···	3 17 			
Totals	1,903	104	1	559	14	44			

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Food Condemnations, 1926	July		65			21,510	••••	•		00	00	10	•••							500			60,753
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	February				183	100	6.0	:	400	:	795	475	96	225	:.	:		200		225		125	2,994
	January	:			306	16,600	25	25	450	•••	50	25	240	225	•••	• •				50	:	20	18,081
	Description	Beef	Pork	Mutton	Poultry	Fresh Fruit	Dried Fruit	Jam	Vegetables	Eggs	Candy	Biscuits	Canned Goods	Cereals	Nuts	Coffee	Cheese	Game (Rabbits)	Pickles	Tea	Miscellaneous (Extracts)	Sugar	Totals

FOOD DIVISION

CITY HEALTH DEPARTMENT

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January	15	78	36	8	10	174	9	32	11		32	58	397	160	121	29	229	10	9	10	59	•••	4
Premises	Abattoirs and Packers	Bakeries	Vehi	Biscuit and Cereal Factories	Brewries	Butcher Shops	Butter and Cheese	Candy Factories	Cold Storage Plants	Cone Factories	Fish Stores	Fruit Stores	General Stores	Grocers	Hawker's Vehicles	Hotel Kitchens	Ice Cream Parlors and Confectioners	Jam, Pickle and Spice Factories	Markets and Auction Rooms	Poultry Slaughter Houses	Produce, Commission and Eggs	12	Railway Express

Food Inspections, 1926

3,815 236 1,219 25	22.974	1,235		5 5 \$97.25
325 19 150 33	1,972	100		:::::
304 26 115 2	1,907	106		::::
328 19 131 1	1,988	123		1 3 \$60,00
252 19 95 2	1,736	110		1 \$8.00 \$
303 20 123 2	1,699	71		:::::
293 63 63 33	1,868	95		:::::
346 15 109	1,956	88		1 513.00
324 14 96 5	1,951	118	tions	·····
355 16 88 88 4	1,961	150	Prosecutions	:::::
341 222 91 22	2,062	107	-	:::::
329 22 84	1,978	112		1 \$16.25
315 21 74 1	1,896	55		:::::
Restaurants and Lunch Counters Sausage Factories Special	Totals 1,896 1,97	Notices to improve conditions		Insanitary Premises

FOOD DIVISION

Report of Bacteriologist

A. J. Douglas, Esq., M. D.,

Medical Health Officer.

Dear Sir:

I have the honor to submit herewith a report of the work performed in the Bacteriological Laboratory for the year ending December 31st, 1926.

The work done is shown in the following table and for comparison the totals of the preceding three years are added:

1926	Swabs for Diphtheria	Sputa for T.B.	Urethral Smears	Widals for Typhoid	Water	Milk and Cream	Urinalyses	Miseellaneous	Vaccinations	Total Examina- tions per Month
	Pos.	Pos.	Pos.	Pos.						
January February March April May June July August September October November December	472 - 21 891 - 53 977 - 46	$\begin{array}{c} 46 & -5 \\ 39 & -6 \\ 36 & -9 \\ 41 & -5 \\ 23 & -3 \\ 18 & -1 \\ 34 & -3 \\ 35 & -2 \end{array}$	$ \begin{array}{c} 29-5\\ 23-1 \end{array} $		$\begin{array}{r} 49\\ 55\\ 65\\ 63\\ 59\\ 71\\ 64\\ 61\\ 58\\ 68\\ 59\\ 50\\ \end{array}$	$\begin{array}{c} 118\\147\\150\\169\\196\\235\\117\\211\\217\\217\\217\\190\\193\end{array}$	$\begin{array}{r} 46\\ 35\\ 23\\ 21\\ 33\\ 14\\ 23\\ 13\\ 14\\ 30\\ 14\\ 23\\ 14\\ 23\\ \end{array}$	$9 \\ 25 \\ 22 \\ 21 \\ 14 \\ 9 \\ 21 \\ 7 \\ 11 \\ 14 \\ 11 \\ 11 \\ 11 \\ 11 \\ 11$	$\begin{array}{r} 47\\85\\186\\120\\921\\317\\320\\145\\86\\83\\141\\42\end{array}$	$\begin{array}{r} 809\\ 928\\ 1014\\ 824\\ 1982\\ 1754\\ 2403\\ 1916\\ 915\\ 1369\\ 1451\\ 1451\end{array}$
		$\begin{array}{r} 468 - 59 \\ 501 - 50 \\ 485 - 53 \\ 516 \end{array}$	317 - 68	32 - 4	536	$1472 \\ 1286$	$339 \\ 556$	140	$1731 \\ 1359$	

Water

During the year 715 samples of water were tested bacteriologically. Enumeration of colonies and micro-organisms on plain agar was done on each specimen as well as inoculating broth cultures for the detection of gas-formers. The samples were drawn from the following sources:

1. Domestic supply. Tap water from this Laboratory was tested daily. The bacterial counts showed the usual seasonal variation and were never dangerously high.

2. Public Swimming Baths. Samples from Cornish, Pritchard and Y. M. C. A. baths were tested weekly while open.

3. Various water mains. Samples were taken from mains which were undergoing alteration.

4. Samples from private individuals, residences, hotels, etc.

The total number of tests done outnumber considerably the number of preceding years.

Milk and Cream

The number of specimens examined totalled 2,160, showing an increase of 50% to 100% over previous years. These specimens were examined for butter fat content and the milk for water and solids. There were 440 bacterial counts made which varied from 1,000 to over 100,000 colonies per c.c.

Source:

1. Dairy Inspectors brought in 1,936 samples of milk and 104 samples of cream. This was the chief cause of the increase in the total of specimens submitted.

2. The Bureau of Child Hygiene sent in 44 samples of milk and skimmed milk, and 22 samples of cream.

3. Private individuals submitted 32 specimens of milk and 25 of cream, including three specimens of ice cream.

Diphtheria Swabs

Swabs examined for the diphtheria bacillus totalled 9,563, a slight increase over last year, but much less than formerly when the disease was much more prevalent. Positives amounted to 361.

These swabs were brought in by Doctors, Nurses, Health Inspectors, School Nurses, Margaret Scott Nursing Mission Nurses, and others. Many of the swabs were taken in this Laboratory especially from children going to Summer Camps. During the holiday months of June, July and August, 3,646 swabs, or almost 40% of the total, were taken largely due to this cause.

Widals for Typhoid Fever

Blood examinations for agglutination of typhoid, paratyphoid, and other organisms isolated from patients, totalled 70 with 13 giving positive reaction. The increase over the previous year was due to increase in typhoid fever cases during the summer.

Urethral Smears

These totalled 340 for the year, which includes all smears from the urethra, vagina and cervix examined for the presence of gonococci. These smears are sent in for examination by the Doctors.

Urinalyses

These totalled 289. Specimens are sent in for examination by Doctors, Nurses, Insurance Companies, the Bureau of Child Hygiene, and by private individuals. The tests required are chemical, microscopic, sugar estimations, and for tubercle bacilli.

Vaccinations

These gave a total of 2,493, which is the largest yet recorded in this laboratory. The source of individuals making up the list was as follows: 1. Children up to and including school age, especially in the month of May, when 921 were vaccinated.

2. Employees of the railroads, who are now practically required to be recently vaccinated.

3. Large stores. One of these requires all new employees to be recently vaccinated.

4. Contacts with cases.

There were 671 certificates issued.

Miscellaneous Tests

This includes examination of mother's milk, gastric contents, hairs for parasites, blood counts, preparation of vaccines, and bacteriological examination of foods sent in by Mr. Rigby, Chief Food Inspector.

Dispensary Work

Examination of school children for freedom from contagious diseases and issuing of certificates for return to school, has been continued as usual.

Adults have come for free medical advice. The more serious of these cases have been referred to the Winnipeg General Hospital. House calls have been made at the request of welfare agencies and these cases were disposed of at the time, usually by having the patient transferred to Hospital.

In conclusion I desire to express my appreciation for the manner in which Miss Wilson, my assistant, and Mr. Harry Robinson, the Laboratory attendant, have fulfilled their respective duties.

Respectfully submitted,

M. S. LOUGHEED, M.D., Bacteriologist.

COMMUNICABLE DISEASES DIVISION

Report of Chief of Division of Communicable Diseases

A. J. Douglas, Esq., M.D.,

Medical Health Officer.

Dear Sir:

I have the honor to submit report on the work done by this Division during the past year.

Tabulated monthly reports, tables and summaries relating to Diphtheria, Scarlet Fever and other matter are attached hereto.

The work of this Division varies little year by year, in fact any change or comment we may make seems almost like repetition of previous reports, nevertheless, we have a few interesting notes to make regarding the past year's work and much food for thought in some of the tables and summaries presented.

Our preventive schedule, for Smallpox conducted yearly in the schools during the past ten years now embraces Diphtheria and we have succeeded during 1926 in covering, systematically, every public school. The bulk of this work is done during the months following the summer holidays.

These duties falling to the lot of this Division means extra work but its results are already seen in the decline in numbers of cases of Diphtheria reported since 1923. We beleive that concentrated effort towards vaccination of school children has been a factor in cutting down our number of cases of Smallpox reported.

Smallpox appeared in virulent form on two occasions but fortunately we were able to prevent spread. The disease in milder form appeared repeatedly throughout the year.

Typhoid Fever which appeared on a milk route in July and reappeared in September gave some cause for uneasiness for a time.

Measles, Mumps and Chickenpox were reported in considerable numbers; the former two diseases were with us during the latter months of 1925 and were merely completing the outbreak already started, whereas Chickenpox was reported in largest number during November and December, 1926.

Scarlet Fever gave us considerable trouble, and towards the end of the year was being reported from widely separated districts. Where it appeared in schools and districts localized, we prosecuted the most vigorous efforts to suppress same by house to house visitation. We received much assistance from the School Medical Inspection Department; the nurses checking closely sick children and absentees who gave a history of sore throats and rashes.

The summary "Inspectors' Reports" shows the work done monthly and requires no further comment.

Tuberculosis:

Three nurses have carried on the work of visiting the homes of Tuberculous patients and have conducted the work of the clinics held

at the Winnipeg General Hospital three days a week, also at the Children's Hospital two days a week.

There was an increase in number of cases reported and a slight increase in deaths. Cases, two hundred and thirty-two; deaths 88, distributed as follows:

	1.	61	. co	ant		
	Vard	Vard	Vard	Ion-	otal	
Cases	45	81	86	Z 20	232	
Deaths	10	131	30	17	88	
Population 58	3.409	65,785	72,931	1'	75,125	

The morbidity and mortality rate per 100,000 population is as follows:

	Ward 1.	Ward 2.	Ward 3.
Morbidity rate		123	117
Mortality rate		47	41

Summary of cases and deaths as they appear in each district:

	ei			fie		
rict	rict	fict	ide.	assi	-	
Dist1	Distı	Disti	Outs	Uncl	Tota	
Cases	66	51	20	4	208	
Positive	25	26			122	
Clinically Positive20	41	25		÷ .	86	
Deaths	23	20	17		88	

In dividing the city into districts no attempt has been made to equalize from the standpoint of population. District 1 for instance has a non-visiting list of thirty-four against one in District 3.

Wa	rd 1.	Ward 2.	Ward 3.	Total
Number on Visiting List	135	129	141	405
Non-visiting cases	34	18	41	53
Patients in King Edward Memorial				
Hospital	48	29	27	104
Patients in Ninette Sanatorium	34	6	17	57
Patients in St. Roch's Hospital	9	5	5	19
Patients in Children's Hospital	2	1	2	5
Summary showing number and	classi	fication of	of patients	in each

Summary showing number and classification of patients in each district:

Þ.

no.

00

		Total	Positive	Clinical Positive	Suspect	Contact
District	1.		86	26	8	15
District	2.		28	53	16	32
District	3.		31	39	29	42

COMMUNICABLE DISEASES DIVISION

Not all cases of tuberculosis known to the Department are visited by the nurses, for should the attending physician so request, the case is written up and filed with the non-visiting list.

District 1 embraces much of the best residential property in Winnipeg; District 2 is adjacent; District 3 lies East of Main Street and North Main Street, West to limits.

During the year the Department supplied a total of 10,561 quarts of milk to patients unable to pay for same.

Age	Incide	ence Cases	Deaths
	0-10		3
	11-20		16
	21-30	66	19
	31-40		18
	41-50		14
	51-60	6	11
	61-70	and over 9	7
		208	Total88
	C	Dutside cases 20	-
	τ	Unclassified 4	

The following table shows the length of time cases which terminated in death were known to the Department.

City Deaths
Reported by Death Registration
Known less than 1 month 9
Between 1 and 2 months
Between 2 and 3 months
Between 3 and 4 months 2
Between 4 and 5 months
Between 5 and 6 months 9
Over 6 months
· · · · · · · · · · · · · · · · · · ·
Total

This table clearly demonstrates the fact that many patients are in the advanced stages of the disease before reaching the Department's records. This has been referred to in previous reports and apparently we must continue to press the need for earlier reporting of cases as a means at least, of fully understanding our position.

A comparative table showing nationality of cases recorded for the years 1926-1925 is as follows:

CITY HEALTH DEPARTMENT

	1926	1925
Canadian	. 63	55
English	. 31	23
Scotch	. 13	8
Irish	. 7	7
Icelandic	. 4	9
Swedish	. 3	3
Norwegian	. 3	1
German	. 12	13
Polish	. 21	6
Ruthenian	. 2	5
Austrian	. 2	1
Russian	. 1	6
Jewish	. 13	14
Chinese	. 4	6
American	. 2	3
Greek	. 1	1
Ukrainian	. 22	12
Negro	. 1	1
French	. 1	
Rumanian	. 1	
Finlander	. 1	1
Danish		3
	208	177

Summaries showing the work done at the clinics held at the Winnipeg General Hospital and Children's Hospital is attached to this report. The Nurse's monthly report and a table showing living conditions of patients added to their records during the year is also attached.

We regret to report that Inspector Triggs, who has suffered indifferent health during the past two years, was compelled to remain off duty during the year.

We received assistance from the branch of Sanitary Inspection during the period that measles and mumps was most prevalent.

Miss Winnifred Aldham, record clerk for this Division who had given nine years splendid service, was granted leave of absence during the year and we regret to say that later she found it necessary to resign. This position has been filled by promoting Mr. G. Moore and appointing in his place Stuart Steel as Junior clerk.

In conclusion we again take pleasure in recording our thanks to the staff of the Municipal Hospital; the staff of the Medical Inspection Department of Public Schools; the Margaret Scott Nursing Mission and other agencies; their assistance and co-operation has meant much to this Division.

> Respectfully submitted, WM. J. T. WATT, Chief, Division of Communicable Diseases.

COMMUNICABLE DISEASES DIVISION

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	Dec.	Deaths	:	:		:	61	:	:	-	:	01	6	:	:	:		1	14
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	July	Cases	6	10	35	03	31	14	18	37	15	9	22	:	:	03	:	:	196 1
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1924	Rate Per 100,000		11.2	5.6	ci	3.5	°°.	1.02	44.6	61.5	12.8						5.1			
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1925	Rate Per 100,000		13.3	4.09	4.6	7.17	3.07	1.	41.5	53.2	15.8									
-	Deaths		26	8	6	14	9	¢3	81	104	31	10	:	00	-	-	10		:	
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CITY HEALTH DEPARTMENT

COMMUNICABLE DISEASES DIVISION

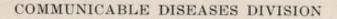
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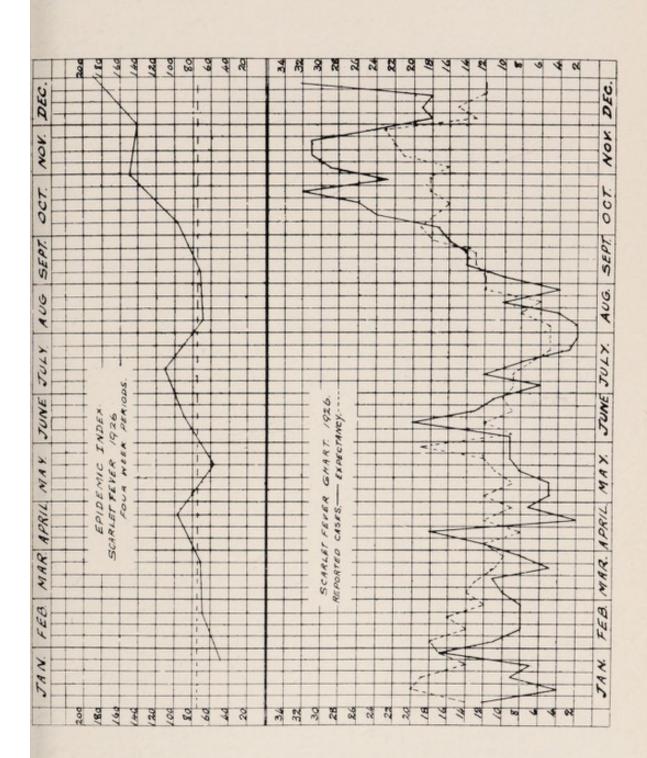
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Typhoid Fever	8	6			2	
Smallpox	2				~	
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Measles	11	3	1	2	3	2
Scarlet Fever	8	5		1		2
Whooping Cough	6			3	3	
Diphtheria	20	6	1	3	5	5
Erysipelas	14	3		3	5	3
Tuberculosis, Pulmonary	88	17		10	31	30
	1			10	01	00
Meningitis, Cerebro Spinal .	1	1	• :	• •	• •	::
Influenza	31	6	1	7	7	10
Puerperal Fever	7	2			3	2
Encephalitis, Lethargic	7	2		2	2	1
	204	51	3	37	61	57

	1925 Totals	645 885 407 407 407 404	264 1277 85 85 85		1925 ZigioT	515 53 53 100 53 76 37 16 16
	1926 Totals	676 115 35 64 64	316 86 24 57 43 43		1926 alatoT	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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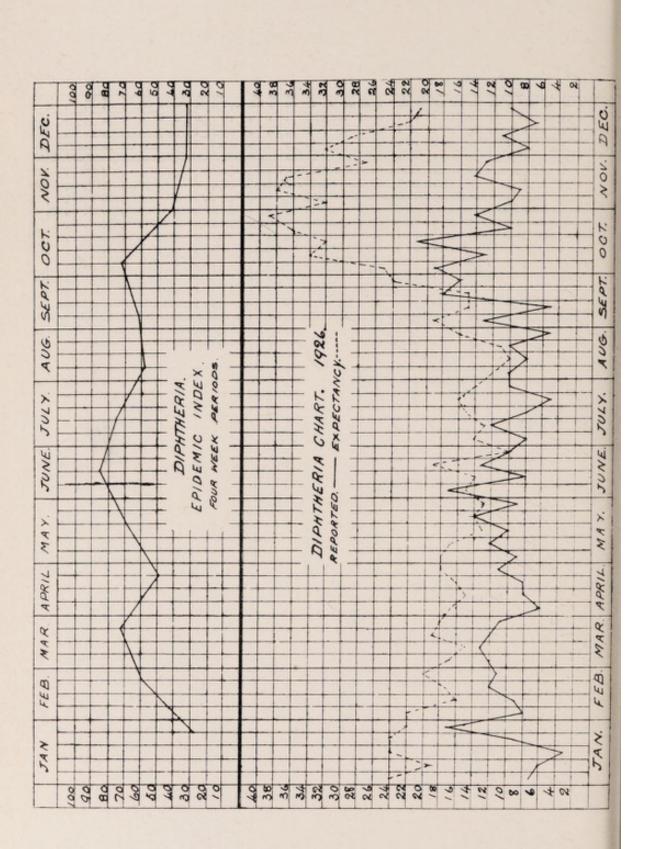
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CITY HEALTH DEPARTMENT









CITY HEALTH DEPARTMENT

COMMUNICABLE 1	DISEASES	DIV	ISION
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	Totals 1925	$ \begin{array}{c} 8,700\\ 3,975\\ 1,417\\ 1,726\\ 1,582\\ 4,643\\ 7\\ 7\\ 7\\ 25\\ 35\\ 26\\ 1,052\\ 4\end{array} $		1
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	November	$\begin{array}{c} 655\\ 625\\ 625\\ 62\\ 62\\ 62\\ 62\\ 13\\ 13\\ 13\\ 398\\ 13\\ 12\\ 8\\ 1\\ 1\end{array}$	November	29 17 15 15
	October	$\begin{array}{c} 978 \\ 286 \\ 297 \\ 597 \\ 297 \\ 20 \\ 154 \\ 1 \\ 1 \\ 1 \end{array}$	Detober	20 23 29 29 20
	September	$ \begin{array}{c} 512 \\ 512 \\ 172 \\ 131 \\ 105 \\ 188 \\ 188 \\ 286 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 \\ 288 $	September	44 28 31 31 11
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nspect	L'1qA.		February	$105 \\ 79 \\ 26 \\ 47 \\ 20 \\ 20 $
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		1,222 952 127 49 94 1,049 7 7 7 3 3 		
	January	$\begin{array}{c} 1,294\\ 1,036\\ 75\\ 69\\ 1114\\ 1,089\\ 1\\ 1\\ 2\\ 8\\ 90\\ 90\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$		
		Number of Visits Houses Quarantined Quarantines Raised Quarantines Inspected Other Calls New Cases Investigated New Cases Investigated Rooms Fumigated Special Reports Special Reports Special Reports Rooms Sprayed Houses Sprayed		Cases

CITY HEALTH DEPARTMENT

	Totals 1925	JugiN -	-		1130
	10 11	Day	625 448 173		73 317 158
	als 26	JugiN	$265 \\ 142 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 $	$102 \\ 154$	9 185 95
	Totals 1926	Day	788 535 253	268	
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	t.	MaiN	22 12	12	33
	Oet.	Day	30	9	9 19
1920	t.	tdaiN	10	10 10	: 4 4
ic, 1	Sept.	Day	69 49 20	29	23 26
Olin	bic	Might	14 3 5		
General Hospital Tuberculosis Clinic, 1926	Aug.	Day	56 41 15	34	4 24 14
nlo	ly	Might	12 12 23	13 22	12:
berc	July	Day	98 63 55	29	233 333 33
Tul	ne	Might	28 15 13	10 18	 16 10
ital	June	Day	45 12 33	13	.: 16 10
dso	- A	1dgiN	29 12	20	$23 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 1$
H	May	Day	48 32 16	15 28	5 26 6
nera		JugiN	21 11 10	6 14	$ \frac{1}{6} $
	Apr.	Day	63 19	28 25 25	$ 10 \\ 32 \\ 14 $
peg	ij	Might	36 18 18	18	23 23
Winnipeg	Mar.	Day	124 87 37	29 58	37 40 46
M	Feb.	JugiN	31 31	16	20 12 12
	Fe	Day	93 65 28	31	$\frac{18}{29}$
	Jan.	td2iN	00 10 00	10 00	: 9 61
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			Cases	Men	Children Examinations X-Ray Examinations.

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COMMUNICABLE DISEASES DIVISION

1925 251810T	5,400	5,104	130	110		56	41		. 6	38	15
1926 Totals	5,198	4,884	193	61		60	41	x	E	51	1
Decemper	353	341	8			4	9		: :	1	1
лөатөтөл	405	387	6	0		9	9			:	:
October	497	469	8	20	/		¢3			00	
September	473	460	12			1	9		:-	:	:.
isuzuA	389	367	15	1			0		: :	1	
July	327	300	20	00		4	:		: :		:
əunr	458	440	13	1		4	1		. 67	11-	:
Мау	499	472	16	6		c1	1	F		1	::
lingA	511	465	21	5		20	10	Y		03	:
Матећ	445	415	23	9		1	1		:	1	9
February	416	400	12	4			4		:	13	
January	425	368	36	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		18	1	1	:-	1	
	Number of Visits	To Old Cases	To New Cases	On Behalf of Patients	Other Calls	Patients sent to King	Edward Hospital	Roch's Hospital	Sanatorium	Suspects	Relief Given

Tuberculosis Nurses' Report, 1926

		PATIENTS	STUE			CONTACTS	ACTS	
Rooms Occupied by One Family	With Room to Self	With Bed But Not Room to Self	With Neither Bed Nor Room to Self	Total Patients	Total Contacts	Sleeping in Same Bed as Patient	Sleeping in Separate Bed but Same Room	Totals
Rooms	112 4 4 85 85	16 3 1 2	1 10 16 14	15 15 23 142	5 21 82 726	12 23 44	4 4 20 20	5 35 35 64
Totals	105	22	68	195	834	80 -	40	120

Tuberculosis, 1926

131348513:11 -27 16 19 15 13 13 13 13 \$ Nov. 01 -222 223 00 Oct. 01 $\frac{22}{115}$ -6 : 0 1 1 0 0 : 4 00 .tq92. 0.1 1 : 19 : 19 : 1 -00 Suy CJ . co F - 10 0 F 4 01 -00 981211 AInf 01 :00 - 00 00 00 01 0 - 1 00 01 01 : 00 - 00 - $\begin{array}{c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & 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Chickenpox DISEASES Mumps Wards

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CIT YHEALTH DEPARTMENT

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COMMUNICABLE DISEASES DIVISION 97

			Tul	bercul	Tuberculosis, 1926	1926								
		January	February	Матећ	lingA	May	əunr	Tuly	1su3uA	September	TedoteO	November	December	Totals 1926
K. E. M. Hospital.	:	00	00	1	03	10	6	00	9	00	4	10	00	62
Ninette Sanatorium	:	10	03		20	1	0	9		4	:	0.00		31
Clinies	:	9	01	14	12	03	9	00	61	5	01	60	63	59
Death Sheet	:	1	01	00	01	67		0	1		00		1	20
City Laboratory	:	00	1	1	01	I	1	63	1	1	03	1	01	18
St. Roche's	:	10	10	1	1	:	63	:	01	1	:	61	:	19
Doctors and Others	:	:	:	1	1		:	¢.1	63	01	:.	01		6
Outside Cases	:	:	•••	:.	:		03	1	1	01	1	00	÷	14
Tubereulosis Cases		33	15	27	25	16	20	22	15	17	12	18	12	232
Tuberculosis Deaths	:	8	5	12	9	1	4	12	5	1	4	6	6	88
Milk Supplied: No. of Quarts	:	976	840	1,083	1,017	1,015	1,009	1,027	708	682	713	749	742	10,561
Patients		32	32	38	34	32	34	34	24	22	22	25	23	:

			SCHIG	SCHICKED			X	ot	1926	1926	26
School							Re	Read		TOXOID	OID
	Total	tal	Neg	Negative	Posi	Positive			Pos.		E.
	1926	1925	1926	1925	1926	1925	1926	1923	Treated	Dose	Doses
Faradav	112	192	23	16	62	111	10	:	1	5	73
William Whyte	139	263	99	114	73	149	:	63	:	12	61
	228	446	86	201	128	245	14	00	1	14	113
17	188	242	65	137	122	105	1	1		8	114
Champlain	50	141	13	64	35	11	63	63	•••	9	29
Aberdeen	177	271	75	122	102	149	:.	4	c1	17	83
Flo. Nightingale	10	73	2	21	0	52	:		¢1	1	4
Lord Nelson	84	158	40	93	44	65		:	••	er.	41
Margaret Scott	94	258	27	104	63	143	4	II		9	57
Luxton	84	159	21	81	53	78	10	24	1	- 7	45
King Edward	162	505	11	217	85	288	:	II	:	¢1	83
Ralph Brown	96	213	20	52	11	161	5	:		63	68
Machray	140	216	62	92	75	140	00	80		2	68
Peretz	62	:.	21	•••	41	:				9	35
Stratheona	161	534	60	228	101	306		c.1		6	92
Argyle	61	81	18	32	42	48	1	1	:	9	36
Somerset	17	122	31	42	46	180	:	1		3	43
Vietoria	13	73	4	30	6	42		I		1	80
Albert	87	128	. 28	43	54	85	5			¢1	52
Dufferin	119	236	53	90	64	146	01		:	4	60
Ellen St. Kind.	32		15	:	17				:		17
Montealm	46	98	8	25	38	72		1		1	37
Pinkham	83	161	17	17	66	84]	1	4	61
Cecil Rhodes	105	198	. 18	49	80	147	1	¢3		03	17
Mulvav	00	CEE.									

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CITY HEALTH DEPARTMENT

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00	8	00	8	8	6	80	14	63	1-	9	5	(::	1	00	63	1	00	63	11	9	5	4		4	5	6	275
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56	74	36	62	39	49	33			56	22	16	4	30	61	37	28	40	8	50	32	17	1	13	20		:	2816
24	54	42	20	23	50	23	19	22	34	16	12	8	18	33	6	9	5	10	10	15	10	10	11	9	51	24	1427
135	172	111	161	155	159	149	152	129	208	124	75	46	82	202	87	73	93	35	131	111	11	51	32	63	•••	:	7688
85	139	123	85	85	128	103	16	93	9119	59	54	24	61	114	30	36	30	38	72	82	58	30	31	43	83	09	4462
Wellington	John M King	Tshister	General Wolfe	Carlton	Principal Sparling	Greenway	Isaac Brock	Laura Secord	Lord Roberts	Riverview	Gladstone	Fort Rouge	Wolselev	Lord Selkirk	George V.	Sir S. Steele	Elmwood	Anna Gibson	Earl Grey	La Verendrye	Grosvenor	St. Ignatius	-	River Heights	St. Edward's	St. •Mary's	

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COMMUNICABLE DISEASES DIVISION

Report of Manager of Bureau of Child Hygiene

A. J. Douglas, Esq., M.D.,

Medical Health Officer.

Dear Sir:

I have the honor to submit herewith the report of the Bureau of Child Hygiene for the year 1926.

In spite of the slightly higher population figures, births continued to show a decrease from the 1920 maximum, the rate for that year being 32.06 per 1,000 population against 22.54 for 1926. The latter rate is the lowest yet recorded for the city, but is still higher than the rates of older communities in the East. Decreasing birth rates are the rule in almost every city at the present time, and the Winnipeg decrease is in no way remarkable.

In 1926 there were registered 4,444 live births and 314 deaths of infants under one year of age, as compared with 4,632 live births and 315 infant deaths during 1925. These figures give infantile mortality rates of 70.6 per 1,000 live births for 1926, or 2.6 deaths higher than the 1925 rate of 68.0.

Cause of Increase

An examination of the records and charts shows that the increase is due to a higher mortality from diseases of early infancy, the rate for this cause being 37 deaths per 1,000 live births against 29 for 1925. This rate of 37 is the highest since 1913.

A feature of the situation which may cause some surprise is that the section showing one of the worst rates in this connection is the area between the Assiniboine River and Ellice Avenue and from Young Street west to the city limits, a residential district in which within the past few years there has been considerable building of homes. Here the mortality rate from diseases of early infancy was 58 per 1,000 live births, as compared with 37 for the entire city and a low of 18 for one of the sections favored by mothers of Central European birth. Infants born of Canadian and British mothers have invariably shown a lower viability than those born of parents of foreign origin, the latter infants suffering more from diarrhoeal and respiratory diseases.

Puerperal Deaths

Twenty-five mothers died from puerperal causes, giving a rate of 5.6 per 1,000 live births, or .2 higher than last year and .2 above the average for the past seven years.

Fewer Stillbirths

Stillbirths in 1926 numbered 156, against 188 for 1925, giving a rate of 35.1 per 1,000 live births against 40.6 for the latter year. The current rate is the lowest stillbirth rate recorded since 1912.

BUREAU OF CHILD HYGIENE

Pre-Natal Care Necessary

The continued high early infancy and maternal death rates again emphasize the necessity for the pre-natal instruction and care, particularly for mothers of first children, who are the chief sufferers. Unfortunately, however, these are the cases which do not come early enough under the physician's care and the Child Welfare Nurses do not learn of the case until after the child's birth is registered. Expectant mothers who consult the nurses are those who know the nurse personally from long association and the matter is a confidence between the nurse and mother. This phase of the work is shown when a new nurse takes over a district—her pre-natal consultations are practically nil until the mothers receive her as a confidence. The length of time necessary to accomplish this varies in different sections of the city, according to the nationality and social standing of the mothers and the personality of the nurse.

Midwife Attendants

The number of live births attended by midwives continued to show a decline, 164 cases being recorded in 1926, against 250 for 1925. These figures give percentages of the live births of 3.7% and 5.5%, respectively. In 1918, 19.8% of the total births were attended by midwives.

Increase in Hospitalization of Maternity Cases

Coincident with the large decrease in the number of births attended by midwives is the increase of births in hospitals. This has been especially marked during the past few years, as the following figures show:

1912 31.5% of births in hospitals and maternity homes 1917 36.3% of births in hospitals and maternity homes 1922 53.3% of births in hospitals and maternity homes 1926 70.9% of births in hospitals and maternity homes

Causes of Infant Deaths

The leading cause of death, as has been the case since 1917, was diseases of early infancy, which accounted for 165 deaths of the total of 314 which occurred in 1926. Diseases of the respiratory system caused 51 deaths; of the digestive system, 33 deaths, and all other diseases, 65 deaths.

The above figures give rates per 1,000 live births as follows; 1925 rates being given for comparison:

	1926	1925
Diseases of early infancy	37.1	32.2
Diseases of respiratory system	11.5	11.6
Diseases of digestive system	7.4	10.6
All other diseases	. 14.6	13.6
	70.6	68.0

CITY HEALTH DEPARTMENT

		· Ra	tes pe	r 1,000 Li	ve Births
			19	26	1925
		U	nder	Under	Under
		1	Year	1 Month	1 Month
Ι	West	Fort Rouge, west of Pembina	6.0	37	37
I	East	Fort Rouge, east of Pembina	70	35	38
П		Red River to Spence Street	78	48	39
III	South	Assiniboine River to Ellice Ave1	.02	66	31
III	North	Ellice Ave. to Notre Dame Ave	52	36	26
IV	West	Notre Dame Ave to C.P.R. Tracks	57	23	16
IV	Centre	Sherbrook St. to Main St	93	49	47
IV	East	Point Douglas, south of C.P.R	73	54	76
V	East	Point Douglas, north of C.P.R	74	25	53
v	South	C.P.R. Tracks to Selkirk Ave	82	37	3.9
V	North	Pritchard Ave. to Burrows Ave	63	34	16
VI	West	Burrows to Limits, west of No.			
		500	79	46	21
VI	East	Burrows to Limits, east of No.			
		499	67	42	5.9
VII	[Elmwood	47	31	64
				- 1	
Cit	y		73	42	38
No	n-reside	nts	63	36	44
		Gross Rates	71	41	39

Infant Mortality According to Sections of City

The section showing the highest rate, 102 deaths per 1,000 live births, is III South, (Assiniboine River north to Ellice Avenue; Young Street west to city limits), a residential district in which it would be supposed the infant mortality rate was lower than the average. In 1926, particularly in the section south of Portage Avenue, there was considerable sickness during the year, and each group of diseases showed a higher mortality than the average for the city. As previously mentioned, the chief reason in this section for the 31 point increase over the city rate was the large number of deaths from diseases of early infancy.

In 1925 and 1926, the number of births in this section were practically the same, but the infant deaths in 1926 were twice as high as in 1925. Further analyses of these births and deaths reveal the fact that the high death rates are amongst infants born of Canadian and British mothers, the rates in this section being the highest in the city of their respective nationalities. By way of contrast, the infants born of mothers from Central and Southern Europe have their lowest death rate in this section, but their number is too small to give a useful rate. The figures are:

I	District III		City
Live Births	Infant Deaths	Rates	Rates
Canadian	37 .	93	78
British	27	81	60
Europe 30	1	(35)	75

It is also noteworthy that the section showing the second highest Canadian rate is Fort Rouge, with a rate of 85. The lowest Canadian rate, 16, was in Elmwood.

The highest mortality rate amongst infants born of English mothers, 87, occurred in the residential area lying between the Assiniboine River and Notre Dame Avenue, west of Spence Street, and the lowest, 43, in Fort Rouge.

The following table shows the changes which have taken place in the various infant death rates according to nationality of the mother: Infant Deaths per 1 000 Live Births

	intant De	atus per	1,000 Live	BITTINS	
1926	1925	1924	1922	1920	1913
Canadian	58	62	103	8.9	118
British	72	63	70	92	125
Scandinavian59	70	66	135	98	116
Southern and Cent-					
ral European75	65	. 78	94	142	372

Babie's Clinic

There were 425 new cases recorded against 457 for 1925. By sections, the cases are classified as follows:

District Section	I. W. E.	II. I S.	III. I N. W.	IV. C. E. 1	V. E. S. N.	VI. VII. W. E.	City Non-Ro	Total
1926								
1925	.17 14	26 33	36 29 5	50 14 3	15438	$36\ 70\ 35$	483 4	487
Attenda	ance at	the C	linic tot	alled 4	1,664, ag	ainst 4,8	53 for	1925.

By months, the attendance was:

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1926	310	353	358	434	434	388	474	471	426	383	353	280	4,664
1925	385	358	390	412	390	362	483	468	440	414	376	375	4,853

Milk Dispensary

The toal feedings prepared numbered 27,885, against 24,446, the increase reflecting the greater amount of sickness which was prevalent during 1926. The number of free feedings were largely increased, being 12,108 against 9,679 for 1925. The Children's Hospital feedings numbered 6,569, against 7,683 for 1925. In 1920, the first year the department took over the preparation of these feedings, they numbered 10,389, so that the present figures are a pleasing indication of the reduced amount of serious sickness amongst babies.

Child Welfare Nurses

The thirteen visiting nurses made 43,938 visits to babies in their homes, calling on 2,733 new babies, or 83 per cent. of the live births to resident mothers. Through the courtesy of the St. Boniface Registrar, we secured birth records of Winnipeg babies born in that city, and these were also visited by our nurses. These figures are not included in our rates as there is no provincial system in force for distributing the vital statistics records according to the municipality of origin of the case.

There was considerable sickness in some districts during the year, and the number of visits made show a decided increase over those of 1925 because of this condition. Sick calls, which are answered whenever received, were unusually heavy in the first three months of the year, when the weather conditions were particularly trying through the cold and deep snow. The amount of sickness during this season may be gauged by the infant mortality rate which stood at 90 at the end of April (71 for the year), against 72 at the end of April, 1925, (68 for that year).

Further particulars of the nursing activities are given on page 105.

I again desire to place on record my appreciation of the work of the Bureau's staff; each member has rendered devoted service, particularly those nurses called upon to give, under a physician's orders, daily treatments over long periods, Sundays and holidays included, to infants with but a slender hold on life.

Respectfully submitted,

(Signed) A. G. LAWRENCE, Manager, Bureau of Child Hygiene

Leetures given	-	. 10	1-	9	10	4	:	:	4	9	9	9	56
Treatments to babies	192	177	281	234	227	132	84	67	73	62	122	176	1827
Private demon- strations	6	-	15	10	11	14	8	01	9	9	00	1-	98
Pre-natal advice given	48	.43	39	<				28	50	43	43	44	518
Cases sent to Grand Air Camp			:	:	01	11	80	:	•••	•••		:	21
Cases referred to M. S. W. M.	000	0.1	03	03	00	4	:	00	00	1	5	1	29
Cases referred to Social Welfare	:	00	1	1	1	1	•••	1	:	•••	:.	:	8
Cases referred to Hospitals	16	23	21	31	19	20	12	13	19	17	21	15	227
Cases referred to Milk Depot	25	20	18	29	27	34	24	24	222	16	17	10	266
Cases referred to physicians	41	38	37	31	59	40	24	33	38	30	51	39	461
Requested calls	169	131	124	126	121	78	88	103	113	113	131	153	1450
Calls to sick Babies	325	275	249	211	169	113	100	120	120	115	122	193	2112
Visits to Infants' Homes	18	14	9	20	11	13	11	11	10	9	8	12	135
saidsd of stisiV	3,435	3,707	3,988	4,128	3,448	3,863	2,824	2,901	3,883	3,999	3,616	4,146	43,938
Deaths of infants visited more than once	9	1	2 .	9	-	-	:	4	63	00	00	10	* 51
Total live births visited	236	237	256	266	204	192	250	228	214	206	210	234	2,733
No. of days on duty	2923	282	316	290	249	2713	205	2381	2773	2941	290	298	3,3043
9261	January	February	March	April	May	June	July	August	September .	October	November	December	Totals

Child Welfare Nurses, 1926

BUREAU OF CHILD HYGIENE

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*In addition to this total, 235 live births to Winnipeg mothers occurred in St. Boniface Hospital, and were visited by our nurses.

																_	
	1	Evaporated Milk			-	1	-	-			-	-		-	66		00
		Corn Syrup (lbs.)	10	10	58	63	73	50	40	1017	10/2	54 1/2	59	51	50	62	0.0
	-	Protein Powder (lbs.)	1 9	1	1.	11	16	10	21	6	3	22	65	47	30		13
		Dextri Maltose (lbs.)	1 8	3	33	50	30	50	45	9	2	3.5	30	40	30	25	000
		Scotch Oatmeal (lbs.)	1	22.11	11 1/2	151/2	15	151%	15	111	10/2	15 1/2	15	1114	7 16	7 34	
Supplies Used		Barley flour (lbs.)	06	20	21	23 3/2	22 1/2	23 1/2	22 1/6	100	207	24	31 1/2	27 1/4	22.16	25	
applie		Sugar of mills (Lactose). (lbs.)	10	27	14	œ	9	45	1-	0	0	-1	9	NO.	x	00	
S		Powdered sugar (lbs.)	0	0	1-	1-	90	10	10	9	P	11	10	9	00		
		Cream (qts.)	106	100%	27	35	34	42.1_{2}	35	10	5	38	39 34	331%	53	2534	
		(.stp) alim mild.	500	1000	416	494	432	542	448	40.0	a or	654	812	524	502		0000
		(.stp) älim slodW	1 161	10141	1,330	1,436	1,341	1,258	1,058	1 006	DOO!T	1,150	1,068	992	910	1,165	10.022 0000 0000
		Condensed milk	61	5	50	17	17	53			2.	-	10	35	15	-	000
50		Acidified	200	0.000	433	524	412	348	300	215	010	365	256	203	27.4	301	07.40
Feedings		Sperry Whey		1	1	1	1		1		1	00	1	1		1	1 .
Fe		Protein	0	0	30	44	81	46	100	103		215	278	225	115	114	1070
	Lactic acid		912		125	98	40	11	51	N.S.	3	256	368	224	119	149	1805
		Cash Collected Dispensary type) Dispensary teedings (in Dispensary teedings (in	\$ 129.23	× . *	104.65 75.88	1 1 1		28. 34.	85.20	71.63	1.00	124.25			113.80	140.03	20 778 AS
ings		Grand total feedings (including Children's Hospital)	0 195	10164	2,336	2,437	2,493	2,698	2,147	ALC 0	0	2,550	2,614	2,219	1,906	2,054	07 000
d Feed	oot	Total feedings (ex- cluding Children's Hospital)	1 1		1,726	1,940	1,938	2,180	1.736	1 011	TTott	1,966	2,009	1,616	1,356	1,391	01010
No. of Cases and Feedings	Milk Depot	Free feedings	010	OTO	1,036	1,157	1,148	1,361	964	1 195	may in	1,140	1,150	801	635	673	
o. of (M	Paid feedings	068	0.00	690	783	790	819	772	786	3	826	859	815	721	718	0000
N		Children's Hospital Feedings	6.36	2	610	497	555	518	411	335		584	605	603	550	663	10020
	ti Bull	Cases on Dispensary Lie at 1st of month (includ Children's Hospital)	60	00	80	84	82	87	69	20	-	69	90	80	66	58	003
		Cases attending for first time	30	-	8	34	49	38	40	48		45	39	25	31	17	195
		Total attendance at Clinic	310		353	358	434	434	388	47.4		471	426	383	353	280	AGAA
		1926	Tannara	THE STORE ST	February	March	April	May	June	July		August	September	October	November	December	Totala

Babies' Milk Depot Report for Year 1926

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Report on Vital Statistics

A. J. Douglas, Esq., M.D.,

Medical Health Officer.

Dear Sir:

I have the honor to submit herewith the report on Vital Statistics for the year 1926.

Copies of the birth and death registrations have been furnished the Department by courtesy of the Registrars, the late Mr. C. J. Brown and Mr. M. Peterson, as in previous years.

Respectfully submitted,

A. G. LAWRENCE,

Secretary.

Summary of Statistics

	1926	1925
Area of City Land, 14,865 acres; water, 622 acres;		
total, 15,287 acres (23.9 square miles).		
Population (City Assessor's figures)	197,125	195,148
Persons per acre of land	13 26	13.13
Natural increase, excess of births over deaths	2,746	3,013
Rate per 1,000 population	13.93	15.44
Stillbirths	156	188
Rates per 1,000 live births	35.10	40.59
Births, excluding stillbirths	4,444	4,632
Rate per 1,000 population	22.54	23.73
Deaths, excluding stillbirths	1,698	1,619
Rate per 1,000 population	8.61	8.30
Deaths of infants under 1 year	314	315
Infantile mortality rate per 1,000 living births.	70.65	68.00
Marriages	2,368	2,237
Rate per 1,000 population	12.01	11.46

1926	31.617.110.89.77.93.59.58.27.610.35.75.11.52.53.13.14.0	5 1.0 1.0 1.0
1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926	3.1	0
4 15		10
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22	10.1	0
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19:	10	0 0
192(1.0	
616	0.3	7.9 5.4 4.3 3.9 2.0 7.5 6.0 6.5 7.4
8	6 1	110
161	1	9
617	8.2	6.0
161	19	140
61	6	1-
3161	5.5	2.0
14	0.	6
3 19	1-	00
161	9.7	4
112	0.8	4
11	110	1 6
161	17.	P
910	1.6	
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908	0.6	
112	0 40	-2
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1903 1904 1905 1906 1906 1907 1908 1909	95.0 84.6 248.3 222.6 146.5 51.0 40.6 38.	orrected Rate for C
Ŧ	32	Tree
190	248.	Co
903	1.6	Ī
	8	-
902	5.0	

Gross Typhoid Fever Death Rates per 100,000 Populatation

Crude Death Rates per 100,000 Population

External Causes (165-203)	$\begin{array}{c} 62.9\\ 57.2\\ 52.2\\ 60.5\\ 60.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\ 62.5\\$
Puerperal Deaths (143-150)	$\begin{array}{c} 12.7\\ 12.8\\ 13.3\\ 13.3\\ 12.5\\ 12.5\\ 19.1\\ 19.1\\ 19.1\\ 19.1\\ 19.1\\ 12.9\\ 20.5\\ 21.0\\ 12.9\\ 26.1\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\ 13.8\\$
Acute and Chronic Nephritis (128-129)	$\begin{array}{c} 32.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222.5\\ 222$
Hernia, Intestinal Obstruction (118)	$\begin{array}{c} 12.2\\ 9.2\\ 9.2\\ 9.2\\ 9.2\\ 9.2\\ 13.6\\ 9.2\\ 9.2\\ 9.2\\ 9.2\\ 9.2\\ 9.2\\ 9.2\\ 9.2$
Appendicibilitie (T11) attilider	$\begin{array}{c} 15.7\\ 220.0\\ 232.0\\ 9.5\\ 13.8\\ 14.2\\ 14.2\\ 14.2\\ 14.2\\ 14.2\\ 14.2\\ 14.2\\ 14.2\\ 13.4\\ 19.2\\ 8.4\\ 8.4\\ 8.4\\ 9.2\\ 9.2\\ 9.2\\ 9.2\\ 9.2\\ 9.2\\ 9.2\\ 9.2$
Pneumonia all forms (100-101)	$\begin{array}{c} 70.5\\ 68.1\\ 80.6\\ 77.3\\ 87.4\\ 887.4\\ 884.8\\ 884.8\\ 884.8\\ 1132.9\\ 117.6\\ 1117.6\\ 1117.6\\ 1117.6\\ 91.1\\ 91.1\\ 91.1\\ 93.0\\ 93.0\\ 93.0\\ 1109.9\\ 138.2\end{array}$
Acute and Chronic Bronchitis (99)	$\begin{array}{c} 4.0\\7.7\\7.7\\7.7\\7.7\\7.7\\7.7\\7.7\\7.7\\7.7\\13.5\\13.5\\13.5\\13.6\\13.6\\13.6\\13.6\\13.6\\13.6\\13.6\\13.6$
Diseases of the Arteries (91)	$\begin{array}{c} 12.2\\ 9.7\\ 11.9\\ 15.3\\ 15.3\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ 11.9\\ $
Diseases of the Heart (02-78)	$\begin{array}{c} 105.5\\ 84.0\\ 965.5\\ 87.4\\ 87.4\\ 887.4\\ 91.9\\ 91.9\\ 91.9\\ 91.9\\ 91.9\\ 91.9\\ 91.9\\ 58.6\\ 772.2\\ 772.2\\ 772.2\\ 58.1\\ 78.1\\ 78.1\\ 68.2\\ 58.1\\ 78.1\\ 68.2\\ 58.1\\ 78.1\\ 68.2\\ 58.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\ 78.1\\$
Cerebral Haemorrhage	$\begin{array}{c} 39.1\\ 421.5\\ 421.5\\ 422.6\\ 228.6\\ 322.1\\ 322.1\\ 322.1\\ 322.1\\ 322.6\\ 322.6\\ 322.6\\ 322.6\\ 322.6\\ 19.2\\ 19.2\\ 19.2\\ 19.1\\ 19.2\\ 19.1\\ 19.2\\ 19.2\\ 19.1\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2\\ 19.2$
(I7) sijignin9M	$\begin{array}{c} 7.6\\ 7.2\\ 8.7\\ 6.0\\ 6.0\\ 6.0\\ 10.9\\ 110.9\\ 112.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.8\\ 12.$
Cancer all forms (43-49)	$\begin{array}{c} 100.4\\ 94.8\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882.3\\ 882$
Tuberculosis other forms (32-37)	$\begin{array}{c} 14.2\\ 16.9\\ 16.9\\ 16.0\\ 16.0\\ 16.0\\ 226.7\\ 224.1\\ 16.8\\ 16.8\\ 19.7\\ 19.7\\ 19.7\\ 226.0\\ 229.4\\ 226.0\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 226.0\\ 229.4\\ 227.7\\ 229.4\\ 226.0\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 227.7\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\ 229.4\\$
sgnuJ to sisoluciaduT (15)	$\begin{array}{c} 44.6\\ 441.6\\ 441.5\\ 522.7\\ 522.7\\ 712.8\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779.5\\ 779$
Population	$\begin{array}{c} 197,125\\ 195,148\\ 195,148\\ 194,850\\ 199,320\\ 199,129\\ 199,129\\ 199,129\\ 199,129\\ 199,129\\ 199,129\\ 199,129\\ 199,571\\ 183,595\\ 183,595\\ 183,595\\ 183,595\\ 183,555\\ 183,555\\ 184,730\\ 166,553\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,958\\ 151,9$
YEAR	1926 1925 1924 1923 1923 1920 1918 1918 1918 1918 1918 1918 1918 191

108

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	1925 Totals	143 143 135 169 169 163 147 110 130 111 130 127	1,619	per ulation	962 923 923 923 923 923 923 923 923 923 92
SH	1926 Totals	148 178 178 155 160 155 128 128 128 123 127 146	1,698	Rate per 1M Population	$\begin{array}{c} & 8.61 \\ & 8.33 \\ & 7.78 \\ & 7.78 \\ & 9.62 \\ & 9.62 \\ & 11.9 \\ & 8.73 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.9 \\ & 12.$
DEATHS	Female	822288222822282 82228222822282282 8222822282228228	815	Total Deaths	1,698 1,698 1,544 1,544 1,544 1,721 1,721 1,721 1,721 1,723 1,723 1,723 1,723 1,723 1,723 1,723 1,723 1,723 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,763 1,9555 1,763 1,9555 1,763 1,9555 1,9555 1,763 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,95555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,9555 1,95555 1,9555 1,9555 1,9555 1,95555 1,95555 1,95555 1,95555 1,95555 1,95555 1,955555 1,955555 1,9555555555555555555555555555555555555
	Male	883 862 862 862 862 862 862 862 862 862 862	883	Des	33333448864848
	1925 Totals	396 360 415 415 415 415 408 372 372 372 372 372 372 372 372 372 372	4,632	per ulation	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
BIRTHS	1926 Totals	378 356 356 356 375 375 375 375 341 347 347 347 346 346 346 346 346 346 346 346	4,444	Rate per 1M Population	8878888888888888
LIVE B	Female	188 163 163 163 163 163 163 163 163 163 163	2,119	alfirths	223 223 223 223 223 223 223 223 223 223
	Male	$\begin{array}{c} 190\\ 193\\ 218\\ 211\\ 204\\ 179\\ 185\\ 185\\ 186\\ 186\\ 186\\ 186\\ 186\end{array}$	2,325	Total Live Births	4,444 4,444 4,7632 5,2314 5,632 5,632 5,7446 5,73980 5,777
	1925 Totals	20221223026 9	188	per Births	
IRTHS	1926 Totals	11 11 11 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	156	Rate per 1M Live Births	85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85.12 85
STILLB	Female	00000040000000000000000000000000000000	68	Total Stillbirths	156 188 223 223 221 225 225 225 225 225 225 225 225 225
-	Male	809457H	88	Total Stillbirt	************
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Deaths by Months, Sex and Age Period, 1926

Social Status of Decedents, 1926

	Male	Female	Total	Per Cent of Total
Single, under 16 years	251	228	479	28.2
Single, 16 years and over	135	69	204	12.0
Total: Single	386	297	683	40.2
Married	395	318	713	42.0
Widowed	94	199	293	17.3
Divorced				
Unknown	9		9	.5
	884	814	1,698	100.0

Ratio of Males to 100 Females

1926	1925	1924	1923	1922	1921	1920	1919
Stillbirths 129	132	137	134	105	138	153	125
Live Births 110	108	100	106	103	107	106	106
Deaths108	110	113	118	115	110	115	113
Twin Births 50	48	57	58	74	-89	88	77
Triple Births 1				1			

Attendant at Birth

(Excluding Stillbirths-1923-26)

1926	1925	1924	1922	1920
Physicians4,27696	.2% 94.5%	94.0%	90.5%	89.0%
Midwives 164)				
Unattended 4 3	.8% 5.5%	6.0%	9.5%	11.0%
Unknown				

Illegitimacy (Including Stillbirths)

	19:	26 1925	1924	1923	1922	1921	1920	1919
Illegitimate	births31	3 279	284	280	299	317	262	270
Per cent. of	total births.6.	8 5.8	5.7	5.4	5.3	5.0	4.1	4.9

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Nativity of Dec	edents, 192	6
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Winnipeg	417	Ukraine 1	
Manitobta (rest of)	120	Belgium 3	
Alberta	3	Denmark 4	
New Brunswick	9	Finland 2	
Nova Scotia	13	France 1	
Ontario	261	Germany 18	
Prince Edward Island	5	Greece 2	
Quebec	38	Holland 1	
Saskatchewan	12	Iceland 27	
Canada	19	Italy 4	
Newfoundland	2	Norway 3	
England and Wales	250	Roumania 9	
Channel Islands	3	Russia 73	
Ireland	55	Spain 1	
Scotland	129	Sweden 20	
Australia	1	Switzerland 3	
India	2	China 4	
New Zealand	1	East Indies 1	
Austria	45	United States 63	
Bohemia	1	South America 1	
Galicia	17	West Indies 1	
Hungary	1	Ocean 1	
Poland	41	Unknown 10	

Total1,698

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Summary		·		
			Per	Cent.
	Dea	aths	of Total	
	1926	1925	1926	1925
Canada	899	907	53.0	56.0
British Isles	437	363	25.7	22.4
Europe (excluding British Isles)	277	274	16.3	16.9
United States	63	53	3.7	3.3
Asia	7	6	.4	.4
Other Countries	4	3	.2	.2
Ocean	1		.1	
Unknown	10	13	.6	.8
Totals	1,698	1,619	100.0	100.0

Stillbirths According to Nationality of Mothers

Rates pe	r 1,00	0 Liv	e Birt	hs			
1926	1925	1924	1923	1922	1921	1920	1919
Canadian	34	46	40	37	48	45	34
British	45	49	45	42	33	44	41
Southern and Central							
European46	45	49	32	51	34	32	36

Comparative Infant Mortality Table

	No.	No.	Rates per
	Births	Deaths	1,000 Births
1926	4,444	314	70.6
1925	4,632	315	68.0
1924	4,762	323	67.8
1923	5,214	416	79.8
1922	5,629	500	88.8
1921	6,029	471	78.1
1920	6,174	625	101.2
1919	5,254	562	106.9
1918	5,621	516	91.8
1917	. 5,446	545	100.1
1916	. 5,980	700	117.0
1915	. 5,823	619	106.3
1914	. 5,789	729	125.9
1913	. 5,577	947	169.8
1912	. 4,870	1,006	206.6
1911	. 4,469	762	170.5
1910	. 3,772	628	166.5

Infant Mortality According to Nationality of Mothers (Excluding Stillbirths)

	1926		Rate	s per	1,000 I	live B	irths
Nationality Live	Births	Deaths	1926	1925	1924	1923	1922
Canadian	1,750	137	78	59	62	74	103
English and Welsh	783	44	56	70	65	81	65
Irish	138	8	58	54	86	40	61
Scottish	432	29	67	82	48	77	85
American (U.S.A.)	209	12	57	40	41	70	78
Seandinavian	102	6	59	70	66	81	135
Southern and Central							
European	1,002	75	75	65	78	87	94
All Others	28	3					

Infant Mortality, Cause of Death Number of Deaths

1926	1925	1912
Acute communicable diseases 16	12	28
Other general diseases 25	20	80
Of nervous system and of organs of special sense 15	14	78
Of respiratory system 51	54	147
Of digestive system	49	399
Malformations and diseases of early infancy	149	251
All other diseases	17	23
Totals	315	1 006

Rate per 1,000 Births

1926	1925	1912	
Acute communicable diseases 3.6	2.6	5.8	
Other general diseases 5.6	4.3	16.4	
Of nervous system and of organs of special sense 3.4	3.0	16.0	
Of respiratory system11.5	11.6	30.2	
Of digestive system	10.6	81.9	
Malformations and diseases of early infancy	32.2	51.6	
All other diseases 2.0	3.7	4.7	
70.6	68.0	206.6	

Per Cent. of Total

	1926	1925	1912
Acute communicable diseases	.5.1	3.8	2.8
Other general diseases	8.0	6.3	7.9
Of nervous system and of organs of special sense	4.8	4.5	7.8
Of respiratory system	16.2	17.1	14.6
Of digestive system	10.5	15.6	39.6
Malformations and diseases of early infancy	52.5	47.3	25.0
All other diseases	2.9	5.4	2.3
Totals	100.0	100.0	100.0

Classification	of	Ages of	Decedents	Under	One	Year	of	Age
			1926					

	No. of Deaths	Rate pe 1,000 Bir	er Per Ce ths of Tot		
Minutes to 1 week	. 140	31.5	44.6		
Over 1 to 2 weeks	. 17	3.8	5.4		
Over 2 to 3 weeks	. 8	1.8	2.5		
Over 3 weeks to 1 month	. 16	3.6	5.1		
Minutes to 1 month		181	40.7	57.6	
Over 1 to 2 months		23	5.2	7.3	
Over 2 to 3 months		23	5.2	7.3	
	/-				
Minutes to 3 month	ns	227	51.1		72.2
Over 3 to 6 months		42	9.4		13.4
Over 6 to 9 month	ıs	27	6.1		8.7
Over 9 and under 15	2 months	s 18	4.0		5.7
		314	70.6		100.0

For comparison with the above, the final figures for the years 1925 and 1912 are given below:

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	No. of Deaths	Rate per 1,000 Births	
Minutes to 3 months	213	45.9	67.6
Over 3 to 6 months	54	11.7	17.1
Over 6 to 9 months	26	5.6	8.3
Over 9 and under 12 months	22	4.8	7.0
	315	68.0	100.0

1912

	No. of Deaths	Rate per 1,000 Births	
Minutes to 3 months	630	129.4	62.6
Over 3 to 6 months	189	38.8	18.8
Over 6 to 9 months	125	25.7	12.4
Over 9 and under 12 months	62	12.7	6.2
	1,006	206.6	100.0

Infant Mortality Statistics

For further particulars regarding infantile mortality, see report of the Manager, Bureau of Child Hygiene, Pages 100 to 106.

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SEX	Male	10		4 00 01 00	150	010
	1926 CAUSE OF DEATH (By Sex and Age)	Anemia, chlorosis: (a) Pernicious anemia (b) Other anemias and chlorosis Diseases of the thyroid gland: (a) Exophthalmic goiter	(b) Other diseases of the thyroid gland Diseases of the parathyroid glands Diseases of the thymus gland Diseases of the adrenals (Addison's disease) Diseases of the spleen Diseases of the spleen	(a) Leukemia (b) Hodgkin's disease Alcoholism (acute or chronic). Other general diseases	Totals, Class II.	 III.—Diseases of the Nervous System and of the Organs of Special Sense Encephalitis Meningitis: *(a) Simple meningitis *(b) Nonepidemic cerebrospinal meningitis 3 Other diseases of the spinal cord
		58 60	58885	998		111 71 73 73

Cerebral hemorrhage, apoplexy: (a) Cerebral hemorrhage (b) Cerebral embolism and thrombosis Paralysis without specified cause: (a) Hemiplegia (b) Others under this title (b) Others under this title (b) Others under this title (cher forms of mental alienation Epilepsy Infantile convulsions (under 5 years of age) Chorea Softening of the brain Other diseases of the nervous system Diseases of the ear and of the mastoid process: *(b) Diseases of the ear *(b) Diseases of the mastoid process	5 pr 2020 0 23	884 <u>211 10100</u> 000	1 1 1 1				5		0		8 22 3 1 1 1 1 1 3 1 3 1 3 1 3 1 3 1 1 1 1 1	23	6			70 12315633320 123156
Totals, Class III	74	85	15	00	9	1	1-	3 10	0 21	1 22	2 29	33	1-	-	1	159
IV.—Diseases of the Circulatory System Pericarditis Endocarditis and myocarditis (acute) Angina pectoris Other diseases of the heart Diseases of the arteries: (a) Aneurysm (b) Arteriosclerosis (c) Other diseases of the arteries (c) Other diseases of the arterie	9 10 10 10	10 10 10 10 10 10					5		2 1 2	2 11 1 17 19 37 2 2 2 2	36 1 36 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	37 37 9 9	21	4		$\begin{smallmatrix}&&&&&\\&&&&&\\&&&&&&\\&&&&&&\\&&&&&&\\&&&&&&$
Totals, Class IV	126 1	119	1		-	4	9	6 13	3 25	50	54	58	24	4		245
V.—Diseases of the Respiratory System Diseases of the masal fossae and their annexa: *(a) Diseases of the masal fossae																1

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SEX	Male	30 121	2491-		85	10 00
	1926 CAUSE OF DEATH (By Sex and Age)	Bronchitis: (a) Acute (b) Chronic (d) Unspecified (5 years and over) Bronchopneumonia: *(a) Bronchopneumonia	Pheumonia: (a) Lobar (b) Unspecified Pleurisy Congestion and hemorrhagic infarct of the lung Asthma	Pulmonary emphysema Other diseases of the respiratory system (T.B. excepted): (c) Others under this title	Totals, Class V	VI.—Diseases of the Digestive System 108 Diseases of the mouth and annexa 109 Diseases of the pharynx and tonsils (including adenoid vegetations): *(b) Others under this title 110 Diseases of the esophagus.
		99 100	101 102 103	107		109 110 110

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	(a) Hermia, mesume obstruction. (b) Intestinal obstruction (c) Other diseases of the intestines (c) Cierboic of the linestines			Totals, Class VI	VII.—Nonvenereal Diseases of the Genitourinary Systemand Annexa128Acute nephritis (ine. unspecified under 10 years of age)129Chronic nephritis (ine. unspecified 10 years and over)131Other diseases of the kidneys and annexa132Calculi of the urinary passages133Diseases of the bladder135Diseases of the prostate137Cysts and other benign tumors of the ovary138Salpingitis and pelvic abscess (female)139Benign tumors of the uterus	Totals, Class VII

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	1926 CAUSE OF DEATH (By Sex and Age)	VIII.—The Puerperal State Accidents of pregnancy: (a) Abortion (b) Ectopic gestation (c) Others under this title Puerperal hemorrhage	Puerperal advantation (Induced) (a) Septic abortion (Induced) Puerperal albuminuria and convulsions	Totals, Class VIII	IX.—Diseases of the Skin and of the Cellular Tissue Cangrene Acute absees	Totals, Class IX	X.—Diseases of the Bones and of the Organs of Locomotion Diseases of the bones (tuberculosis excepted)	· Totals, Class X

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XIMalformations 159 Congenital malformations (stillbirths not included): *(a) Congenital hydrocephalus *(b) Congenital malformations of the heart *(c) Others under this title	Totals, Class XI	 XII.—Early Infancy 160 Congenital debility, icterus, and sclerema 161 Premature birth; Injury at birth: *(a) Premature birth (not stillborn) *(b) Injury at birth (not stillborn) 162 Other diseases peculiar to early infancy 	Totals, Class XII	164 Senility XIII.—Old Age	Totals, Class XIII.	XIVExternal Causes 165 Suicide by solid or liquid poisons (corrosive substances excepted) 166 Suicide by corrosive substances 167 Suicide by poisonous gas. 168 Suicide by hanging or strangulation 170 Suicide by firearms 171 Suicide by firearms 172 Suicide by furping from high places 173 Suicide by jumping from high places 174 Other acute accidental poisonings (gas excepted) 178 Conflagration 179 Accidental burns (conflagration excepted)
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X	Female	44	8
SEX	Male	**************************************	16
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	1926 CAUSE OF DEATH (By Sex and Age)	 181 Accidental absorption of irrespirable, irritating, or peonous gas 182 Accidental drowning 183 Accidental traumatism by finearms (wounds of war ex. Accidental traumatism by nachines) 187 Accidental traumatism by nachines 188 Accidental traumatism by other crushing (vehicles, r. ways, landslides, etc.): *(a) Railroad accidents *(b) Street-car accidents *(c) Automobile accidents *(c) Automobile accidents *(f) Injuries by other crushing 190 Wounds of war 190 Other accidents *(a) Inducide by finearms (b) Foncide by finearms (c) Other means (c) Other external violence (c) Other external violence 	Totals, Class XIV
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205 Cause of death not specified or ill-defined: *(a) Ill-defined	Totals, Class XV	Grand Totals	

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CAUSE OF DEATH (By Month)	I.—Epidemic, Endemic, and Infectious Diseases 1 Typhoid and paratyphoid fever: (a) Typhoid fever (a) Typhoid fever 6 Small-pox 7 Measles 8 Scarlet fever 9 Whooping-cough 10 Diphtheria 11 Influenza: (a) With pulmonary complications specified	(b) without pumonary computations specified Totals, Nos. 1 to 11	16 Dysentery: (b) Bacillary (c) Unspecified or due to other causes 21 Erysipelas 23 Lethargic encephalitis 24 Meningococcus meningitis 25 Other epidemic and endemic diseases: 29 Tetants	 30 Mycoses 31 Tuberculosis of the respiratory system 32 Tuberculosis of the meninges and central nervous system 33 Tuberculosis of the intestines and peritoneum

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 3.4 Tuberculosis of the vertebral column 3.5 Tuberculosis of the joints. 3.6 Tuberculosis of other organs: (d) Tuberculosis of the genitourinary system 3.7 Disseminated tuberculosis: (a) Acute 	Totals, Nos. 31 to 37	38 Syphilis41 Purulent infection, septicemia	Totals, Class I	IIGeneral Diseases Not Included in Class I Cancer and other malignant tumors of the buccal cavi Cancer and other malignant tumors of the stomach, li Cancer and other malignant tumors of the peritoneu testines, rectum	 40 Cancer and other malignant tumors of the lemale genital 47 Cancer and other malignant tumors of the breast 	 48 Cancer and other malignant tumors of the skin 49 Cancer and other malignant tumors of other or unspecified organs 	Totals, Nos. 43 to 49	 50 Benign tumors and tumors not returned as malignant (tumors of the female genital organs excepted) 51 Acute rheumatic fever. 52 Chronic rheumatism, osteoarthritis gout 57 Diabetes mellitus.

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	*(b) Diseases of the ear and of the mastoid process: *(b) Diseases of the mastoid process	IV.—Diseases of the Circulatory System S7 Pericarditis S8 Endocarditis and myocarditis (acute) S9 Angina pectoris 90 Other diseases of the heart 91 Diseases of the arteries: (a) Anervem	 (b) Arteriosclerosis (c) Other diseases of the arteries 	Totals, Class IV

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E C A A E E E E E E E E E E E E E E E E
1926 By Month) CAUSE OF DEATH (By Month) CAUSE OF DEATH (By Month) CAUSE OF DEATH (By Month) Diseases of the nasal fossae and their annexa: *(a) Diseases of the nasal fossae Bronchitis: *(a) Diseases of the nasal fossae Bronchitis: *(a) Diseases of the nasal fossae Bronchitis: *(a) Diseases of the nasal fossae Bronchonia: *(a) Bronchopneumonia: (b) Unspecified (5 years and over) Bronchopneumonia: *(a) Bronchopneumonia: *(a) Luspecified (5 years and over) Phenunoia: (b) Unspecified (b) Unspecified (b) Unspecified (b) Unspecified (b) Unspecified (b) Unspecified (b) Unspecified (c) Uther diseases of the respiratory system (T.B. excepted): (c) Others under this title (c) Others under this title Pulmonary emphysema (c) Others under this title <

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 111 Ulcer of the stomach and duodenum: (a) Ulcer of the stomach (b) Ulcer of the duodenum (b) Ulcer of the duodenum 112 Other diseases of the stomach (cancer excepted) 113 Diarrhea and enteritis (under 2 years of age) 114 Diarrhea and enteritis (2 years and over) 115 Appendicitis and typhitis (b) Intestinal obstruction: (a) Hernia (b) Intestinal obstruction: (b) Intestinal obstruction 119 Other diseases of the intestines (b) Intestinal obstruction (cirrhosis of the liver: (b) Not specified as alcoholic (coher diseases of the liver: (b) Not specified as alcoholic 123 Diseases of the liver: (b) Not specified as alcoholic (coher diseases of the liver: (b) Not specified as alcoholic 	Totals, Class VI	VII.—Nonvenereal Diseases of the Genitourinary Systemand Annexa128Acute nephritis (ine. unspecified under 10 years of age)129Chronic nephritis (ine. unspecified 10 years and over)131Other diseases of the kidneys and annexa132Calculi of the urinary passages133Diseases of the bladder135Diseases of the prostate137Cysts and other benign tumors of the ovary138Salpingitis and pelvic abscess (female)139Benign tumors of the uterus	Totals, Class VII

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CAUSE OF DEATH (By Month)	VIII.—The Puerperal State 143 Accidents of pregnancy: (a) Abortion (b) Ectopic gestation (b) Ectopic gestation (c) Others under this title (e) Others under this title (e) Others under this title (e) Others under this title 146 Puerperal septicemia 147 Puerperal septicemia 148 Puerperal abortion (Induced)	Totals, Class VIII.	IX.—Diseases of the Skin and of the Cellular Tissue Gangrene Acute abscess Totals, Class IX	C.—Diseases of the Bones and of the Organs of Locomotion Diseases of the bones (tuberculosis excepted)	Totals, Class X	
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XIMalformations 159 Congenital malformations (stillbirths not included): *(a) Congenital hydrocephalus *(b) Congenital malformations of the heart *(c) Others under this title	Totals, Class XI	XII.—Early Infancy 160 Congenital debility, icterus, and sclerema 161 Premature birth; Injury at birth: 161 *(a) *(b) Injury at birth (not stillborn) *(b) Injury at birth (not stillborn) 162 Other diseases peculiar to early infancy	Totals, Class XII	XIII.—Old Age 164 Senility	Totals, Class XIII	XIVExternal Causes165Suicide by solid or liquid poisons (corrosive substances excepted)166Suicide by corrosive substances167Suicide by corrosive substances168Suicide by poisonous gas.169Suicide by drowning170Suicide by drowning171Suicide by firearms172Suicide by jumping from high places.173Poisoning by food174Other acute accidental poisonings (gas excepted).179Accidental burns (conflagration excepted).

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CAUSE OF DEATH (By Month)	 180 Accidental mechanical suffocation 181 Accidental absorption of irrespirable, irritating, or poisonous gas 182 Accidental drowning 183 Accidental traumatism by firearms (wounds of war ex.) 185 Accidental traumatism by nachines 185 Accidental traumatism by other crushing (vehicles, railways, landslides, etc.): *(a) Railroad accidents *(b) Street-car accidents *(c) Automobile accidents *(f) Injuries by other reushing 190 Wounds of war 191 Houries by other reushing 192 Other accidental electric shocks 193 Homicide by other means 202 Other external violence 	Totals, Class XIV

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205 Cause of death not specified or ill-defined: *(a) Ill-defined	Totals, Class XV	Grand Totals	





