

## **Annual report of the Medical Health Officer / City of Winnipeg.**

### **Contributors**

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# CITY OF WINNIPEG HEALTH DEPARTMENT

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## ANNUAL REPORT 1964



WINNIPEG'S NEW COUNCIL AND ADMINISTRATION BUILDINGS

R. G. CADHAM, M.D., D.P.H.  
MEDICAL HEALTH OFFICER

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CITY HEALTH DEPARTMENT

Winnipeg, 1964.

Chairman and Members,  
Committee on Public Health and Welfare.

Madam and Gentlemen:

I have the honour to present the annual report and the financial statement of the Health Department for the year 1964.

Essentially the year was a healthy one for the citizens of Winnipeg with no major outbreaks of any serious disease, and indeed a progressive year in all respects.

The birth rate dropped to 21.7 per thousand population which is the lowest recorded since 1950. As expected heart disease and cancer continue to be the leading causes of death with cancer of the lung now being the leading cause of death in males for all forms of cancer.

The incidence of infectious hepatitis has remained relatively constant over the past three years with one hundred and thirty-three cases being reported in 1964. No cases of diphtheria were reported and this has not happened since 1959.

Three typhoid carriers were discovered and remedial action instituted to prevent the spread of this disease. The number of cases of scarlet fever decreased slightly to seventy-nine. Ten deaths as the result of tuberculosis were recorded in comparison with twelve deaths from this disease in 1963. Sixty-seven new active cases of tuberculosis were discovered, which is seven less than in the previous year.

The second mass feeding of Sabin vaccine for immunization against poliomyelitis was conducted in the Spring and 162,746 citizens availed themselves of this opportunity for further protection against this crippling disease.

Three individuals who had been bitten by a rabid cat were successfully treated with the appropriate vaccine to prevent the occurrence of this disease.

On our recommendation the Welfare Institution By-law was amended to provide for "group foster homes". These homes provide accommodation for from four to eight children in a family-type setting, which is a new innovation in our City.

For some years we have been concerned about the possible transmission of infectious hepatitis or serum hepatitis, or other infectious conditions, in the tattooing of human beings. Accordingly the Health By-law was amended to prevent anyone except a duly qualified medical practitioner from practicing the art of tattooing in Winnipeg. To my knowledge Winnipeg is the first City in Canada to have such legislation.



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The Department continues to receive many complaints regarding old car bodies lying around in various areas and as a result a recommendation was made that the Waste Collection By-law be amended to contain a definition of "junk" which would include old car bodies. At the time of writing this amendment has not yet been enacted but it has been approved by City Council.

The work load of the Nursing Division continued to increase substantially with the exception of a modest decrease in the number of women attending expectant mothers' classes. A request from the Medical Directors of the two large mental institutions in the Province to have public health nurses conduct the follow-up work necessary in dealing with discharged patients, had to be declined due to insufficient staff. It has been consistently shown in other areas that the rate of re-admission of mentally disturbed patients to mental hospitals can be markedly reduced by utilizing public health nurses in the follow-up program. We are under constant pressure from the Administrators of the Winnipeg School Division, school principals and others to provide more nursing service but repeated attempts to have our establishment of public health nurses increased have met with failure.

A comprehensive medical examination of one hundred and forty-four pre-school children of families on welfare was carried out with the aid of a National Health Grant to determine the state of health of these children. Details of this study are recorded later in this report.

There was a marked increase in the number of children of medically indigent families or families on welfare who received treatment in our Child Dental Clinics, increasing from 4,535 children in 1963 to 5,455 in 1964. The tremendous benefit of a fluoridated water supply is depicted in the number of children who are now entering school who have never had a dental cavity.

All Divisions of the Inspections Branch had a very busy year. Extensive swab-testing of dishes, glasses and other utensils used in drinking and eating establishments was re-established and the response of the operators of such establishments has been most satisfactory. During the year the City Charter was amended giving the right to the City to enact a By-law requiring that the exterior of buildings in residential areas be maintained in a suitable condition. Essentially such a By-law is for conservation of the housing stock and the prevention of blight in any neighbourhood. As far as can be determined Winnipeg will be the first City on the continent to have such extensive progressive legislation.

The work of the Sanitation and Hygiene Division is increasing mainly due to air pollution and the increase in the number of swimming pools in the City, particularly in apartment blocks and motels. Air pollution continues to be a problem and pressure is being continued by our Department through the Provincial Board of Health, for either the Provincial Government



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or the Metropolitan Corporation of Greater Winnipeg to establish an air pollution control authority.

C O N T E N T S

The Bacteriological Laboratory, which in the main conducted tests on dairy products, was discontinued in March through the co-operation of the Provincial Health Department who now do all the required tests.

Vital Statistics This is but a brief summary of the detailed reports which follow. The support of the Committee on Public Health and Welfare as well as that of other elected representatives to the City Council has been appreciated by myself and all other members of the staff. I should like to commend all members of the Department for their loyalty, diligence and efficiency in carrying out the many varied activities of the Department.

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*R. G. Cadham*

R.G. Cadham, M.D.,  
Medical Health Officer.

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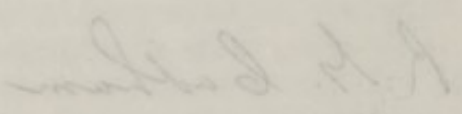
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Respectfully submitted,



R.C. Cadham, M.D.,  
Medical Health Officer.

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HISTORY

From a Hudson's Bay Company trading post (Fort Garry) in 1870, with a population of 215, Winnipeg has grown to the size and finish of a first-class city of approximately 258,000 people. When the City was incorporated in 1873 the COMMITTEE ON PUBLIC HEALTH AND WELFARE

The present Health Department may be said to date from 1900 when the late Dr. Alderman E.J. Enns, Chairman, first full-time Health Officer. Alderman P. Parashin, Acting Chairman, Alderman E.I. Tennant, Alderman M.H. Danzker, had a series of part-time Medical Health Officers. Alderman L. Stinson, Alderman I. Wolch,

In His Worship Mayor S. Juba (ex officio) all Services occurred and the services increased and extended to all child-caring institutions in the City without distinction. This applies to Medical, Dental and Nursing Services.

The Child Health Services Board was set up to help the Department in a consultative manner, meetings being held at the call of the Chairman. This Board was replaced in 1955 by a monthly meeting of the administrative officers of the School Board and the Health Department.

STAFF

The Department has now several Branches to carry out the provisions of the Public Health Act of Manitoba, the Health By-law of the City

- Medical Health Officer . By.law . . . . . R.G. Cadham, M.D., D.P.H.
- Deputy Medical Health Officer . . . . . P. Constantinidis, M.D.
- Consultant, Child Care Services . . . . . H. Medovy, M.D., F.R.C.P.(C).
- Director of Dental Services . . . . . L.N. Konyk, D.D.S.
- Director, Public Health Nursing . . . . . Miss L. MacKenzie, R.N., M.A., P.D.

AREA AND POPULATION

- On January 1, 1963, the City of Winnipeg annexed an area of Chief Health Inspector . Rural Municipality of E.J. Rigby, D.V.M. population of 450.
- Secretary . . . . . E. Singleton.

The City now covers a total area of 31 square miles -- land 30.27 square miles (19,196 acres), and water .73 square miles (467 acres). The density of the population is 13.4 persons per acre of land.

For statistical purposes the population for 1964 is 255,796, a decrease of 817 from 256,613 in 1963 as determined by the Assessment Commissioner. In 1964 the natural increase (live births less deaths) was 2,937. In the last ten years the population of Winnipeg has increased 11,763 while the excess of births over deaths has been 33,846.

COMMITTEE ON PUBLIC HEALTH AND WELFARE

His Worship Mayor S. Juba (ex officio)  
Alderman I. Wolch,  
Alderman L. Stinson,  
Alderman M.H. Dancker,  
Alderman E.I. Tennant,  
Alderman P. Parashin, Acting Chairman,  
Alderman E.J. Bonn, Chairman.

STAFF

Secretary . . . . . E. Singleton.  
Chief Health Inspector . . . . . E.J. Rigby, D.V.M.  
Director, Public Health Nursing . . . . . Miss L. Mackenzie, R.N.,  
M.A., P.D.  
Director of Dental Services . . . . . J.N. Konyk, D.D.S.  
Consultant, Child Care Services . . . . . H. Medovy, M.D., F.R.C.P.(C).  
Deputy Medical Health Officer . . . . . P. Constantiniadis, M.D.  
Medical Health Officer . . . . . R.G. Cadhem, M.D., D.P.H.



VITAL STATISTICS AND HISTORY IN WINNIPEG, 1964

(Including Non-Residents)

From a Hudson's Bay Company trading post (Fort Garry) in 1870, with a population of 215, Winnipeg has grown to the size and finish of a first-class city of approximately 258,000 people. When the City was incorporated in 1873 there was a population of 1,869.

The present Health Department may be said to date from 1900 when the late Dr. A.J. Douglas was appointed the first full-time Health Officer.

From 1881 to 1900 Winnipeg had a series of part-time Medical Health Officers.

In 1941 amalgamation with the School Medical Services occurred and the services increased and extended to all child-caring institutions in the City without distinction. This applies to Medical, Dental and Nursing Services.

The Child Health Services Board was set up to help the Department in a consultative manner, meetings being held at the call of the Chairman. This Board was replaced in 1955 by a monthly meeting of the administrative officers of the School Board and the Health Department.

The Department has now several Branches to carry out the provisions of the Public Health Act of Manitoba, the Health By-law of the City and a number of other City By-laws.

AREA AND POPULATION

On January 1, 1963, the City of Winnipeg annexed an area of about 3,500 acres from the Rural Municipality of Rosser, which had a population of 450.

The City now covers a total area of 31 square miles -- land 30.27 square miles (19,196 acres), and water .73 square miles (469 acres). The density of the population is 13.4 persons per acre of land.

For statistical purposes the population for 1964 is 255,796, a decrease of 817 from 256,613 in 1963 as determined by the Assessment Commissioner. In 1964 the natural increase (live births less deaths) was 2,937. In the last ten years the population of Winnipeg has increased 11,763 while the excess of births over deaths has been 33,846.

(Population - December 31, 1964 - 255,796)

## HISTORY

From a Hudson's Bay Company trading post (Fort Garry) in 1870, with a population of 215, Winnipeg has grown to the size and finish of a first-class city of approximately 258,000 people. When the City was incorporated in 1873 there was a population of 1,869.

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The City now covers a total area of 31 square miles -- land 30.27 square miles (19,196 acres), and water .73 square miles (469 acres). The density of the population is 13.4 persons per acre of land.

For statistical purposes the population for 1964 is 252,796, a decrease of 817 from 253,613 in 1963 as determined by the Assessment Commissioner. In 1964 the natural increase (five births less deaths) was 2,937. In the last ten years the population of Winnipeg has increased 11,763 while the excess of births over deaths has been 33,846.



VITAL STATISTICS AS REGISTERED IN WINNIPEG, 1964

(Including Non-Residents)

The total number of babies recorded in 1964 was the lowest number recorded since 1952 and the rate of 21.7 per 1,000 population is the lowest rate recorded since 1950. There were 2,838 boys and 2,705 girls born giving a ratio of 1,049 boys to 1,000 girls. 5,177 or 93.4% included the fifth child. There were 4,231 or 76.3% of these children in the first five years of life.

	<u>1964</u>	<u>1963</u>
Live Births . . . . .	8,874	9,212
Deaths . . . . .	3,175	3,232
Stillbirths . . . . .	150	150

There were 128 deaths of infants under one year of age giving a rate of 23.1 per 1,000 live births compared with 21.0 in 1963. 91 or 71.1% occurred during the first week of life.

Summary of Vital Statistics, Residents, 1964

Causes of infant deaths are shown in parentheses: 1. Immaturity 32 (25); 2. Congenital Malformations 20 (19); 3. Injury at birth 17 (21); 4. Accidents 17 (17); 5. Postnatal Asphyxia and Atelectasis 14 (9).

A detailed list of causes of infant deaths is on page 10 of this report.

	<u>1964</u>	<u>1963</u>
<u>Live Births</u>		
Male	2,838	3,042
Female	<u>2,705</u>	<u>2,817</u>
Total	5,543	5,859

Rate per 1,000 population PERINATAL MORTALITY 21.7 22.8

In 1964 there were 128 stillbirths and 90 deaths of infants under one week giving a total of 218 which represents a perinatal death rate of 30.8 per 1,000 total births. Comparative rates for 1963 and 1962 show rates of 28.9 and 29.7 respectively.

<u>Deaths</u>	Male	1,557	1,578
	Female	<u>1,049</u>	<u>1,167</u>
	Total	2,606	2,745

Rate per 1,000 population 10.2 10.7  
Natural increase INTERNAL MORTALITY 2,937 3,114

In the first five years of the history of Winnipeg 77 deaths were recorded from conditions pertaining to childbearing for Winnipeg residents. In the last five years there has been a total of 128 perinatal deaths, two each in the years 1960, 1962 and 1963, with three occurring in 1961.

<u>Infant Deaths (-1 year)</u>	Male	77	75
	Female	<u>51</u>	<u>48</u>
	Total	128	123

Rate per 1,000 Live Births 23.1 21.0

GENERAL MORTALITY

The 2,606 deaths of Winnipeg residents recorded in 1964 were 139 less than the 2,745 recorded in 1963. The rate per 1,000 population decreased to 10.2 from 10.7 in 1963.

<u>Stillbirths</u>	Male	34	48
	Female	<u>49</u>	<u>40</u>
	Total	83	88

Rate per 1,000 Live Births 15.0 15.0

Maternal Deaths - 2

Rate per 1,000 Live Births - .3

(Population - December 31, 1964 - 255,796)

Heart disease was again the leading cause of death, accounting for 35% of all deaths. While deaths from heart disease, by 45 years of age, it is the leading cause from 45 years of age. Deaths between the ages of 15 and 34 years of age, 42% of deaths were due to heart disease. Cancer of the breast accounted for the greatest number of deaths of any site - 39, with 78 of the deaths occurring to males. Cancer of the breast accounted for the



VITAL STATISTICS AS REGISTERED IN WINNIPEG, 1964

(Including Non-Residents)

1963	1964
9,212	8,874
3,232	3,175
150	150

Summary of Vital Statistics, Residents, 1964

1963	1964		
3,042	2,838	Male	Live Births
2,817	2,702	Female	
2,829	2,543	Total	
22.8	21.7		Rate per 1,000 population
1,278	1,227	Male	Deaths
1,167	1,049	Female	
2,742	2,606	Total	
10.7	10.2		Rate per 1,000 population
3,114	2,937		Natural Increase
75	77	Male	Infant Deaths (-1 year)
48	21	Female	
123	128	Total	
21.0	23.1		Rate per 1,000 live births
48	34	Male	Stillbirths
40	40	Female	
88	83	Total	
12.0	12.0		Rate per 1,000 live births
3	-		Maternal Deaths
3	-		Rate per 1,000 live births

(Population - December 31, 1964 - 252,706)

greatest number of deaths in few LIVE BIRTHS

The total of 5,543 live born resident babies recorded in 1964 was the lowest number recorded since 1952 and the rate of 21.7 per 1,000 population is the lowest rate recorded since 1950. There were 2,838 boys and 2,705 girls born giving a ratio of 1,049 boys to 1,000 girls. First children accounted for 2,016 or 36.4%, second children 1,478 or 26.7%, 5,177 or 93.4% included the fifth child. There were 4,231 or 76.3% babies born to mothers in the fifteen year age group 20 - 34 years.

43 deaths with 16 or 37% occurring in the 15 - 24 year age group. Accidents caused by fire or explosion of INFANT MORTALITY total took 15 lives with 12 or 80% occurring to children 14 years of age and under.

There were 128 deaths of infants under one year of age giving a rate of 23.1 per 1,000 live births compared with 21.0 in 1963. 91 or 71.1% occurred during the first week of life.

Our appreciation: The chief causes of infant deaths were (1963 figures are shown in parentheses). 1. Immaturity 32 (25), 2. Congenital Malformations 20 (19), 3. Injury at birth 17 (21), 4. Accidental Causes 17 (14), 5. Postnatal Asphyxia and Atelectasis 14 (9).

A detailed list of the causes of infant deaths is on page 20 of this report.

PERINATAL MORTALITY

In 1964 there were 83 stillbirths and 90 deaths of infants under one week giving a total of 173, which represents a perinatal death rate of 30.8 per 1,000 total births. Comparative rates for 1963 and 1962 show rates of 28.9 and 29.7 respectively.

MATERNAL MORTALITY

For the first time in the history of Winnipeg no deaths were recorded from conditions pertaining to childbearing for Winnipeg residents.

In the last five years there has been a total of 11 maternal deaths, two each in the years 1959, 1960, 1962 and 1963, with three occurring in 1961.

GENERAL MORTALITY

The 2,606 deaths of Winnipeg residents recorded in 1964 was 139 less than the 2,745 recorded in 1963. The rate per 1,000 population decreased to 10.2 from 10.7 in 1963.

Heart disease was again the leading cause of death, accounting for 913 deaths or 35% of all deaths. While deaths from heart disease are low, up to 44 years of age, it is the leading cause from 45 years of age and accounted for 40% of all deaths between the ages of 45 and 84 years. In the 20 year age group 65 - 84, 62% of deaths were due to heart disease.

Malignant neoplasms accounted for 511 or 19.6% of all deaths as compared with 512 or 18.7% in 1963. The site of the trachea bronchus lung accounted for the greatest number of deaths of any site - 89, with 76 of the deaths occurring to males. Cancer of the breast accounted for the



### LIVE BIRTHS

The total of 2,543 live born resident babies recorded in 1964 was the lowest number recorded since 1952 and the rate of 21.7 per 1,000 population is the lowest rate recorded since 1950. There were 2,838 boys and 2,705 girls born giving a ratio of 1,049 boys to 1,000 girls. First children accounted for 2,016 or 36.4%, second children 1,478 or 26.7%, 2,177 or 39.4% included the fifth child. There were 4,231 or 76.3% babies born to mothers in the fifteen year age group 20 - 34 years.

### INFANT MORTALITY

There were 128 deaths of infants under one year of age giving a rate of 23.1 per 1,000 live births compared with 21.0 in 1963. 91 or 71.1% occurred during the first week of life.

The chief causes of infant deaths were (1963 figures are shown in parentheses): 1. Immaturity 32 (22), 2. Congenital Malformations 20 (19), 3. Injury at Birth 17 (21), 4. Accidental Causes 17 (14), 5. Postnatal Asphyxia and Anoxia 14 (9).

A detailed list of the causes of infant deaths is on page 20 of this report.

### PERINATAL MORTALITY

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### MATERNAL MORTALITY

For the first time in the history of Winnipeg no deaths were recorded from conditions pertaining to childbearing for Winnipeg residents. In the last five years there has been a total of 11 maternal deaths, two each in the years 1959, 1960, 1962 and 1963, with three occurring in 1961.

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Malignant neoplasms accounted for 511 or 19.6% of all deaths as compared with 512 or 18.7% in 1963. The site of the trachea bronchus lung accounted for the greatest number of deaths of any site - 89, with 76 of the deaths occurring to males. Cancer of the breast accounted for the



greatest number of deaths in females - 44.

Vascular lesions affecting the Central Nervous System were the third leading cause of death accounting for 282 deaths or 10.8% of all deaths with over 86% occurring at age 65 and over.

Accidents, poisoning and violent deaths ranked fourth causing 189 or 7.2% of all deaths. All Accidental Causes accounted for 155, suicide 31 and homicide 3. Motor vehicle accidents accounted for 43 deaths with 16 or 37% occurring in the 15 - 24 year age group. Accidents caused by fire or explosion of combustible material took 15 lives with 12 or 80% occurring to children 14 years of age and under.

Our appreciation and thanks are extended to all those who co-operated with us during the year in permitting us the use of the registrations of births and deaths or copies of them and for the use of the tabulating machine.

YEAR	BIRTHS	POPULATION	DEATHS	LIVE BIRTHS
1949	4,988	21.2	137	27.6
1950	5,045	21.1	133	26.4
1951	5,254	21.3	113	21.9
1952	5,417	22.3	131	24.2
1953	5,886	23.0	148	25.7
1954	5,908	23.3	140	25.4
1955	6,067	23.8	180	29.7
1956	5,892	23.1	155	26.3
1957	6,023	23.4	154	25.6
1958	6,281	24.5	158	25.1
1959	6,105	23.8	137	22.4
1960	5,938	23.2	135	22.7
1961	5,859	22.8	123	21.0
1962	5,543	21.7	128	23.1

\* \* \*

#### BIRTHS

ORDER OF BIRTH BY AGE OF MOTHER 1964  
(Percentage of Total compared with 1963)

	Age							TOTAL	1964 % of TOTAL	1963 % of TOTAL
	10-14	15-19	20-24	25-29	30-34	35-39	40 +			
1st	4	564	957	348	102	30	10	2,016	36.6	34.5
2nd	-	157	665	410	165	60	21	1,478	26.7	26.8
3rd	-	18	304	308	164	87	29	910	16.4	15.8
4th	-	2	93	170	148	67	13	495	9.1	10.0
5th	-	-	44	74	79	63	16	278	5.0	5.5
6th & over	-	-	17	76	103	114	42	352	6.4	7.2
Unknown	-	-	2	2	-	-	-	4	0.0	0.0
Total	4	741	2,082	1,388	761	433	133	5,543	100.0	100.0

Greatest number of deaths in females - 44.

Vascular lesions affecting the Central Nervous System were the third leading cause of death accounting for 282 deaths or 10.8% of all deaths with over 80% occurring at age 65 and over.

Accidents, poisoning and violent deaths ranked fourth causing 189 or 7.2% of all deaths. All Accidental Causes accounted for 152, suicide 31 and homicide 3. Motor vehicle accidents accounted for 43 deaths with 16 or 37% occurring in the 15 - 24 year age group. Accidents caused by fire or explosion of combustible material took 15 lives with 12 or 80% occurring to children 14 years of age and under.

\* \* \*

Our appreciation and thanks are extended to all those who co-operated with us during the year in permitting us the use of the registration of births and deaths or copies of them and for the use of the tabulating machine.



Table Showing Number of Births, Deaths, Infant Deaths And  
Maternal Deaths 1911-1964 \* \*\*

YEAR	NUMBER OF BIRTHS	RATE PER 1,000 POPULATION	INFANT DEATHS	RATE PER 1,000 LIVE BIRTHS
1944	4,060	17.7	144	35.5
1945	4,210	18.2	134	31.8
1946	5,223	22.6	184	35.2
1947	5,532	23.6	193	34.7
1948	4,779	20.4	153	32.0
1949	4,968	21.2	137	27.6
1950	5,045	21.1	133	26.4
1951	5,254	21.9	115	21.9
1952	5,417	22.5	131	24.2
1953	5,586	23.0	166	29.7
1954	5,920	24.3	145	24.4
1955	6,016	24.2	147	24.4
1956	5,908	23.3	144	24.4
1957	6,067	23.8	180	29.7
1958	5,892	23.1	155	26.3
1959	6,023	23.4	154	25.6
1960	6,281	24.5	158	25.1
1961	6,105	23.8	137	22.4
1962	5,938	23.2	135	22.7
1963	5,859	22.8	123	21.0
1964	5,543	21.7	128	23.1

### BIRTHS

ORDER OF BIRTH BY AGE OF MOTHER 1964  
(Percentage of Total compared with 1963)

	10-14	15-19	20-24	25-29	30-34	35-39	40 +	Age Un-known	TOTAL	1964 % of TOTAL	1963 % of TOTAL
1st	4	564	957	348	102	30	10	1	2,016	36.4	34.5
2nd	-	157	665	410	165	60	21	-	1,478	26.7	26.8
3rd	-	18	304	308	164	87	29	-	910	16.4	15.8
4th	-	2	93	170	148	67	15	-	495	8.9	10.0
5th	-	-	44	74	79	65	16	-	278	5.0	5.5
6th & over	-	-	17	76	103	114	42	-	352	6.4	7.2
Unknown	-	-	2	2	-	-	-	10	14	.2	.2
Total	4	741	2,082	1,388	761	423	133	11	5,543	100.0	100.0

\* 1911-1930 include non-residents. 1931-1964 include residents only.

\*\* 1911-1960 show average figures for the periods.

\* Measles, Scarlet Fever, Diphtheria, Whooping Cough.

LIVE BIRTHS & INFANT DEATHS 1944 - 1964

YEAR	NUMBER OF BIRTHS	RATE PER 1,000 POPULATION	INFANT DEATHS	RATE PER 1,000 LIVE BIRTHS
1944	2,243	21.7	128	23.1
1945	2,829	22.8	123	21.0
1946	2,938	23.2	135	22.7
1947	6,102	23.8	137	22.4
1948	6,281	24.2	128	22.1
1949	6,023	23.4	124	22.6
1950	2,892	23.1	122	26.3
1951	6,067	23.8	180	29.7
1952	2,908	23.3	144	24.4
1953	6,016	24.2	147	24.4
1954	2,220	24.3	142	24.4
1955	2,286	23.0	166	29.7
1956	2,417	22.2	131	24.2
1957	2,224	21.9	112	21.9
1958	2,042	21.1	133	26.4
1959	4,968	21.2	137	27.6
1960	4,779	20.4	123	22.0
1961	2,232	22.6	193	34.7
1962	2,223	22.6	184	32.2
1963	4,210	18.2	124	31.8
1964	4,060	17.7	144	32.2

BIRTHS

ORDER OF BIRTH BY AGE OF MOTHER 1964  
(Percentage of Total compared with 1963)

	10-14	15-19	20-24	25-29	30-34	35-39	40 +	Age Un- known	TOTAL % of TOTAL	1964 1963	
1st	4	264	927	348	102	30	10	1	2,016	36.4	34.2
2nd	-	127	662	410	162	60	21	-	1,478	26.7	26.8
3rd	-	18	304	308	164	87	29	-	910	16.4	12.8
4th	-	2	93	170	148	67	12	-	492	8.9	10.0
5th	-	-	44	74	29	62	16	-	278	5.0	2.2
6th & over	-	-	17	76	103	116	42	-	322	6.4	7.2
Unknown	-	-	2	2	-	-	-	10	14	0.2	0.2
Total	4	741	2,082	1,388	761	423	133	11	2,243	100.0	100.0



Table Showing Number of Births, Deaths, Infant Deaths And  
Maternal Mortality With Rates For Winnipeg For Years 1911-1964 \* \*\*

YEAR	BIRTHS	RATE PER 1,000 pop.	DEATHS	RATE PER 1,000 pop.	INFANT DEATHS	RATE PER 1,000 L.B.	MATERNAL MORTALITY	RATE PER 1,000 L.B.
1911-15	5,369	29	2,022	11.1	813	152	35	6.5
1916-20	5,695	30	2,177	11.5	570	104	35	6.9
1921-25	5,371	27	1,677	8.5	415	77	25	4.7
1926-30	4,527	22	1,777	8.7	277	61	26	5.7
1931-35	3,944	18	1,512	6.9	170	43	20	5.1
1936-40	3,785	17	1,697	7.7	138	36	17	4.5
1941-45	4,037	18	1,985	8.7	159	39	10	2.3
1946-50	5,200	22	2,035	8.7	164	31	4	0.8
1951-55	5,639	23.2	2,220	9.2	140	24.8	4	0.7
1956-60	6,034	23.7	2,595	10.2	158	26.2	2	0.4
1959	6,023	23.4	2,738	10.6	154	25.6	2	0.3
1960	6,281	24.5	2,680	10.4	158	25.1	2	0.3
1961	6,105	23.8	2,566	10.0	137	22.4	3	0.5
1962	5,938	23.2	2,564	10.0	135	22.7	2	0.3
1963	5,859	22.8	2,745	10.7	123	21.0	2	0.3
1964	5,543	21.7	2,606	10.2	128	23.1	0	-

Table Showing Number of Deaths and Rate Per 100,000 Population  
From Certain Diseases for Winnipeg For The Years 1911 to 1964 \* \*\*

YEAR	T.B.	RATE PER 100,000 pop.	4 Acute Comm. Diseases †	RATE PER 100,000 pop.	DISEASES OF HEART	RATE PER 100,000 pop.	CANCER ALL FORMS	RATE PER 100,000 pop.
1911-15	131	72	142	78	117	64	87	48
1916-20	136	72	135	72	138	73	135	72
1921-25	94	48	65	33	174	88	178	90
1926-30	86	42	37	18	233	115	209	103
1931-35	65	29	15	7	308	141	268	123
1936-40	52	24	11	5	450	205	283	129
1941-45	51	22	8	4	613	270	324	143
1946-50	34	14	4	2	676	291	333	143
1951-55	20	8	1	0.4	804	334	412	169
1956-60	17	6.5	1	0.5	952	374	466	183
1959	15	6	-	-	1010	392	482	187
1960	18	7	1	0.3	1005	391	494	192
1961	10	4	1	0.3	917	357	465	181
1962	8	3	2	0.8	934	365	499	195
1963	12	5	-	-	913	356	512	200
1964	11	4	-	-	913	357	511	200

\* 1911-1930 include non-residents. 1931-1964 include residents only.

\*\* 1911-1960 show average figures for the periods.

† Measles, Scarlet Fever, Diphtheria, Whooping Cough.

Table Showing Number of Births, Deaths, Infant Deaths And Maternal Mortality With Rates For Winnipeg For Years 1911-1964 \*\*

YEAR	BIRTHS 1,000 pop. RATE PER	DEATHS 1,000 pop. RATE PER	INFANT DEATHS 1,000 pop. RATE PER	WATERBURY 1,000 pop. RATE PER	SCOTTVILLE 1,000 pop. RATE PER
1964	2,243	21.7	2,606	10.2	138
1963	2,829	22.8	2,742	10.7	123
1962	2,928	22.2	2,264	10.0	122
1961	6,102	23.8	2,266	10.0	137
1960	6,281	24.2	2,680	10.4	128
1959	6,023	23.4	2,728	10.6	124
1958-60	6,034	23.7	2,292	10.2	128
1951-55	2,639	23.2	2,220	9.2	140
1946-50	2,200	22	2,032	8.7	164
1941-45	4,037	18	1,982	8.7	129
1936-40	2,782	17	1,697	7.7	138
1931-35	2,944	18	1,212	6.9	170
1926-30	4,227	22	1,777	8.7	277
1921-25	2,271	27	1,677	8.2	412
1916-20	2,692	29	2,177	11.2	270
1911-15	2,269	29	2,022	11.1	812

Table Showing Number of Deaths and Rate For 100,000 Population From Certain Diseases For Winnipeg For The Years 1911 to 1964 \*\*

YEAR	T	100,000 pop. RATE PER	DISEASES & Accidents Comm.	100,000 pop. RATE PER	100,000 pop. RATE PER	VIT LONGE CANCER
1964	11	4	-	913	327	211
1963	12	2	-	913	326	212
1962	8	2	0.8	934	362	499
1961	10	4	1	917	327	462
1960	18	7	1	1002	391	494
1959	12	6	-	1010	392	482
1958-60	17	6.2	1	922	374	466
1951-55	20	8	1	804	324	412
1946-50	24	14	4	676	291	332
1941-45	21	22	8	612	270	324
1936-40	22	24	11	420	202	282
1931-35	62	29	12	308	141	268
1926-30	86	42	37	222	112	209
1921-25	94	48	62	174	88	178
1916-20	126	72	122	128	72	122
1911-15	121	72	142	117	64	87

\* Measles, Scarlet Fever, Diphtheria, Whooping Cough.  
 \*\* 1911-1960 show average figures for the periods.  
 \* 1911-1930 include non-residents. 1931-1964 include residents only.



**CHIEF CAUSES OF DEATH 1964 RESIDENTS ONLY**

All Ages

No.	CAUSE OF DEATH	1 9 6 4		1 9 6 3	
		Number of Deaths	% of Total Deaths	Number of Deaths	% of Total Deaths
1	Diseases of the Heart	913	35.0	913	33.3
2	Malignant Neoplasms	511	19.6	512	18.7
3	Vascular lesions affecting Central Nervous System	282	10.8	315	11.5
4	Accidents, Poisoning and Violent Deaths	189	7.2	164	6.0
5	Pneumonia	118	4.5	198	7.2
6	Malformations and Diseases of Early Infancy	107	4.1	112	4.1
7	Diseases of Arteries	73	2.8	78	2.8
8	Bronchitis	31	1.2	39	1.4
9	Diabetes Mellitus	31	1.2	33	1.2
10	Cirrhosis of Liver	25	1.0	38	1.4
11	Ulcer of Stomach and Duodenum	20	0.8	23	0.8
12	Intestinal Obstruction and Hernia	20	0.8	21	0.8
13	Nephritis and Nephrosis	12	0.5	9	0.4
14	Tuberculosis	11	0.4	12	0.3
15	Hypertension without mention of Heart	5	0.2	3	0.1
	All other causes	258	9.9	275	10.0
	<b>TOTAL</b>	<b>2,606</b>	<b>100.0</b>	<b>2,745</b>	<b>100.0</b>

Causes of Death

The following pages give particulars of the number of deaths of Winnipeg residents for the year 1964 classified according to cause, age and sex. The causes of death are coded according to the Seventh Revision of the International List of Diseases and Causes of Death.



CHIEF CAUSES OF DEATH 1964 RESIDENTS ONLY  
All Ages

No.	CAUSE OF DEATH	1964		1963	
		Number of Deaths	% of Total Deaths	Number of Deaths	% of Total Deaths
1	Diseases of the Heart	913	32.0	913	33.3
2	Malignant Neoplasms	511	19.6	512	18.7
3	Vascular lesions affecting Central Nervous System	282	10.8	312	11.2
4	Accidents, Poisoning and Violent Deaths	189	7.2	164	6.0
5	Pneumonia	118	4.2	198	7.2
6	Malformations and Diseases of Early Infancy	107	4.1	112	4.1
7	Diseases of Arteries	73	2.8	78	2.8
8	Bronchitis	31	1.2	39	1.4
9	Diabetes Mellitus	31	1.2	33	1.2
10	Cirrhosis of Liver	25	1.0	38	1.4
11	Ulcer of Stomach and Duodenum	20	0.8	23	0.8
12	Intestinal Obstruction and Hernia	20	0.8	21	0.8
13	Nephritis and Nephrosis	12	0.5	9	0.4
14	Tuberculosis	11	0.4	12	0.3
15	Hypertension without mention of Heart	2	0.2	3	0.1
	All other causes	228	9.9	272	10.0
	<b>TOTAL</b>	<b>2,606</b>	<b>100.0</b>	<b>2,742</b>	<b>100.0</b>

Causes of Death

The following pages give particulars of the number of deaths of Winnipeg residents for the year 1964 classified according to cause, age and sex. The causes of death are coded according to the Seventh Revision of the International List of Diseases and Causes of Death.

CHIEF CAUSES OF DEATH OF WINNIPEG RESIDENTS  
IN CERTAIN AGE GROUPS 1964

No.	Cause of Death	Deaths in age group		Deaths at all ages	
		Number	Percent	Number	Percent
	<u>0 - 1 years</u>				
1	Immaturity	32	25.2	32	100.0
2	Congenital Malformations	20	15.7	24	83.3
3	Birth Injuries	17	13.4	17	100.0
4	Accidental Causes	17	13.4	155	11.0
5	Postnatal Asphyxia & Atelectasis	14	10.2	14	100.0
6	Infections of the newborn	3	2.4	3	100.0
7	Haemolytic Disease of the newborn	2	1.6	2	100.0
8	Haemorrhage disease of the newborn	2	1.6	2	100.0
	All other causes	21	16.5	2357	0.9
	<b>Total</b>	<b>128</b>	<b>100.0</b>	<b>2606</b>	<b>4.9</b>
	<u>1 - 4 years</u>				
1*	Accidental Causes	12	50.0	155	7.7
2#	Malignant Neoplasms	5	20.8	511	0.1
3	Pneumonia all forms	1	4.2	118	0.8
4	Gastro Enteritis	1	4.2	6	16.7
	All other causes	5	20.8	1816	0.3
	<b>Total</b>	<b>24</b>	<b>100.0</b>	<b>2606</b>	<b>0.9</b>
* #	Fire - 5 Motor Vehicle - 2 Leukaemia & Aleukaemia - 3				
	<u>5 - 14 years</u>				
1*	Accidental causes	9	64.3	155	5.8
2	Leukaemia and Aleukaemia	2	14.4	27	7.4
3	Inflammatory diseases of the nervous system	1	7.1	17	5.9
4	Acute Upper Respiratory infections	1	7.1	1	100.0
5	Congenital malformations of the circulatory system	1	7.1	9	11.1
	All other causes	-	-	2397	-
	<b>Total</b>	<b>14</b>	<b>100.0</b>	<b>2606</b>	<b>0.5</b>
* #	Motor Vehicle - 2 Fire - 5				
	<u>15 - 24 years</u>				
1	Motor Vehicle accidents	16	66.7	43	37.2
2	Suicides	2	8.3	31	6.5
3	Diseases of the Heart	2	8.3	913	0.2
4	Malignant Neoplasms	1	4.2	511	0.2
5	Pneumonia all forms	1	4.2	118	0.8
	All other causes	2	8.3	990	0.2
	<b>Total</b>	<b>24</b>	<b>100.0</b>	<b>2606</b>	<b>0.9</b>
	<u>25 - 44 years</u>				
6	Accidental falls	17	5.1	31	43.8
7	Infections of the kidney	5	1.5	24	20.8
8	Diabetes mellitus	4	1.2	31	12.9
	All other causes	54	16.3	643	8.4
	<b>Total</b>	<b>333</b>	<b>100.0</b>	<b>2,606</b>	<b>12.3</b>



CHIEF CAUSES OF DEATH OF WINNIPEG RESIDENTS  
IN CERTAIN AGE GROUPS - 1964

Cause of Death		Deaths in age group		Deaths at all ages	
No.	0 - 1 years	Number	Percent	Number	Percent
1	Immaturity	32	25.2	32	100.0
2	Congenital Malformations	20	15.7	24	83.3
3	Birth Injuries	17	13.4	17	100.0
4	Accidental Causes	17	13.4	155	11.0
5	Postnatal Asphyxia & Atelectasis	14	10.2	14	100.0
6	Infections of the newborn	3	2.4	3	100.0
7	Hemolytic Disease of the newborn	2	1.6	2	100.0
8	Hemorrhage disease of the newborn	2	1.6	2	100.0
	All other causes	21	16.2	2327	0.9
	Total	158	100.0	2606	4.9
<hr/>					
<u>1 - 4 years</u>					
1*	Accidental Causes	12	50.0	155	7.7
2*	Malignant Neoplasms	2	20.8	211	0.1
3	Pneumonia all forms	1	4.2	118	0.8
4	Gastro Enteritis	1	4.2	6	16.7
	All other causes	2	20.8	1816	0.3
	Total	24	100.0	2606	0.9
<hr/>					
<u>5 - 14 years</u>					
1*	Accidental causes	9	64.3	155	2.8
2	Leukemia and Aleukemia	2	14.4	27	7.4
3	Inflammatory diseases of the nervous system	1	7.1	17	2.9
4	Acute Upper Respiratory Infections	1	7.1	1	100.0
5	Congenital malformations of the circulatory system	1	7.1	9	11.1
	All other causes	-	-	2397	-
	Total	14	100.0	2606	0.2
<hr/>					
<u>15 - 24 years</u>					
1	Motor Vehicle accidents	16	66.7	43	37.2
2	Suicides	2	8.3	31	6.2
3	Diseases of the Heart	2	8.3	913	0.2
4	Malignant Neoplasms	1	4.2	211	0.2
5	Pneumonia all forms	1	4.2	118	0.8
	All other causes	2	8.3	990	0.2
	Total	24	100.0	2606	0.9

\* Fire - 2 Motor Vehicle - 2  
Leukemia & Aleukemia - 2



CHIEF CAUSES OF DEATH OF WINNIPEG RESIDENTS  
IN CERTAIN AGE GROUPS 1964

No.	Cause of Death	Deaths in age group		Deaths at all ages	
		Number	Percent	Number	Percent
<u>25 - 44 years</u>					
1	Malignant Neoplasms	27	26.0	511	5.3
2	Diseases of the heart	18	17.3	913	2.0
3	Suicides	7	6.7	31	22.6
4	Accidental Poisoning	7	6.7	13	53.8
5	Vascular lesions affecting Central Nervous System	6	5.8	282	2.1
6	Motor vehicle accidents	5	4.8	43	11.6
7	Accidental falls	4	3.8	39	10.3
8	Cirrhosis of the liver	2	1.9	25	8.0
	All other causes	28	27.0	749	3.7
	Total	104	100.0	2,606	4.0
<u>45 - 64 years</u>					
1	Diseases of the heart	221	39.5	913	24.2
2	Malignant Neoplasms	169	30.2	511	33.1
3	Vascular lesions affecting Central Nervous System	32	5.7	282	11.3
4	Suicide	21	3.8	31	67.7
5	Cirrhosis of the liver	11	2.0	25	44.0
6	Pneumonia all forms	10	1.7	118	8.5
7	Motor vehicle accidents	10	1.7	43	8.5
8	Diabetes mellitus	6	1.1	31	19.4
	All other causes	80	14.3	652	12.3
	Total	560	100.0	2,606	21.5
<u>65 - 84 years</u>					
1	Diseases of the heart	566	40.2	913	62.0
2	Malignant Neoplasms	286	20.3	511	56.0
3	Vascular lesions affecting Central Nervous System	191	13.6	282	67.7
4	Pneumonia all forms	65	4.6	118	55.1
5	Arteriosclerosis	20	1.4	43	46.5
6	Diabetes mellitus	20	1.4	31	64.5
7	Bronchitis	20	1.4	31	64.5
8	Accidental falls	14	1.0	39	35.9
	All other causes	227	16.1	638	35.6
	Total	1,409	100.0	2,606	54.1
<u>85 years and over</u>					
1	Diseases of the heart	106	31.8	913	11.6
2	Vascular lesions affecting Central Nervous System	52	15.6	282	18.4
3	Pneumonia all forms	39	11.7	118	33.1
4	Malignant Neoplasms	34	10.2	511	6.7
5	Arteriosclerosis	22	6.6	43	51.2
6	Accidental falls	17	5.1	39	43.6
7	Infections of the kidney	5	1.5	24	20.8
8	Diabetes mellitus	4	1.2	31	12.9
	All other causes	54	16.3	645	8.4
	Total	333	100.0	2,606	12.8

CHIEF CAUSES OF DEATH OF WINNIPEG RESIDENTS  
IN CERTAIN AGE GROUPS 1964

No.	Cause of Death	Deaths in age group		Deaths at all ages	
		Number	Percent	Number	Percent
<u>25 - 44 years</u>					
1	Malignant Neoplasms	27	26.0	211	2.3
2	Diseases of the heart	18	17.3	913	3.0
3	Suicides	7	6.7	31	22.6
4	Accidental Poisoning	7	6.7	13	23.8
5	Vascular lesions affecting Central Nervous System	6	5.8	282	2.1
6	Motor vehicle accidents	5	4.8	43	11.6
7	Accidental falls	4	3.8	39	10.3
8	Cirrhosis of the liver	2	1.9	22	8.0
	All other causes	28	27.0	749	3.7
	Total	104	100.0	2,606	4.0
<u>45 - 64 years</u>					
1	Diseases of the heart	221	39.2	913	24.2
2	Malignant Neoplasms	169	30.2	211	33.1
3	Vascular lesions affecting Central Nervous System	32	5.7	282	11.3
4	Suicide	21	3.8	31	67.7
5	Cirrhosis of the liver	11	2.0	22	44.0
6	Pneumonia all forms	10	1.7	118	8.2
7	Motor vehicle accidents	10	1.7	43	8.2
8	Diabetes mellitus	6	1.1	31	19.4
	All other causes	80	14.3	622	12.3
	Total	260	100.0	2,606	21.2
<u>65 - 84 years</u>					
1	Diseases of the heart	266	40.2	913	62.0
2	Malignant Neoplasms	286	50.3	211	26.0
3	Vascular lesions affecting Central Nervous System	191	33.6	282	67.7
4	Pneumonia all forms	62	4.6	118	22.1
5	Arteriosclerosis	20	1.4	43	46.2
6	Diabetes mellitus	20	1.4	31	64.2
7	Bronchitis	20	1.4	31	64.2
8	Accidental falls	14	1.0	39	32.9
	All other causes	227	36.1	638	32.6
	Total	409	100.0	2,606	24.1
<u>85 years and over</u>					
1	Diseases of the heart	106	31.8	913	11.6
2	Vascular lesions affecting Central Nervous System	52	15.6	282	18.4
3	Pneumonia all forms	39	11.7	118	33.1
4	Malignant Neoplasms	34	10.2	211	6.7
5	Arteriosclerosis	22	6.6	43	21.2
6	Accidental falls	17	5.1	39	43.6
7	Infections of the kidney	2	1.2	24	20.8
8	Diabetes mellitus	4	1.2	31	12.9
	All other causes	24	6.2	642	8.4
	Total	332	100.0	2,606	12.8









Int'l List No.	Cause of Death (Intermediate List) (7th Rev.)	Age																Unknown						
		0 - 27 days	28 d. - 1 yr	1 - 4 yrs.	5 - 9 yrs.	10 - 14 yrs.	15 - 19 yrs.	20 - 24 yrs.	25 - 29 yrs.	30 - 34 yrs.	35 - 39 yrs.	40 - 44 yrs.	45 - 49 yrs.	50 - 54 yrs.	55 - 59 yrs.	60 - 64 yrs.	65 - 69 yrs.		70 - 74 yrs.	75 - 79 yrs.	80 - 84 yrs.	85 - 89 yrs.	90 yrs +	
		Total																						
	II. Neoplasms	524	-	5	2	-	1	3	5	4	15	14	39	42	74	57	76	90	63	24	10	-	-	
	A44 - A59 All Malignant neoplasms	293	-	3	1	-	1	-	1	1	3	6	18	21	46	30	51	59	37	13	2	-	-	
	A44	231	-	2	1	-	-	3	4	3	12	8	21	21	28	27	25	31	26	11	8	-	-	
	A44	288	-	3	1	-	1	-	1	1	3	6	18	20	46	29	50	59	35	13	2	-	-	
	A44	223	-	2	1	-	-	3	3	3	12	8	19	21	26	26	23	31	26	11	8	-	-	
	A44	5	-	-	-	-	-	-	-	-	-	-	-	1	2	-	1	-	-	1	-	-	-	
	A44	4	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-	-	
	A45	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	
	A45	4	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	
	A46	35	-	-	-	-	-	-	-	1	-	1	3	3	6	2	5	9	4	1	-	-	-	
	A46	16	-	-	-	-	-	-	-	-	1	-	-	-	3	2	2	2	6	3	1	-	-	
	A47	33	-	1	-	-	-	-	-	-	-	1	1	2	3	5	8	7	5	-	-	-	-	
	A47	23	-	-	-	-	-	-	-	-	1	-	4	2	2	3	2	5	2	1	1	-	-	
	A48	12	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	4	2	3	-	-	-	
	A48	10	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	4	1	-	1	-	-	
	A49	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
	A49	76	-	-	-	-	-	-	-	-	-	-	5	8	11	11	19	11	4	3	-	-	-	
	A50	13	-	-	-	-	-	-	-	-	1	-	1	-	2	5	2	2	-	-	-	-	-	
	A50	44	-	-	-	-	-	-	-	-	-	-	2	7	6	4	3	3	5	2	1	-	-	
	A51	16	-	-	-	-	-	-	-	-	-	-	1	3	1	2	2	-	2	-	1	-	-	
	A52	6	-	-	-	-	-	-	-	-	-	-	1	1	-	1	1	1	-	1	-	-	-	
	A53	38	-	-	-	-	-	-	-	-	-	-	1	-	6	2	12	9	5	2	1	-	-	
	A54	5	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1	1	-	-	
	A55	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	
	A56	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
	A57	52	-	1	-	-	-	-	-	-	-	-	5	5	10	6	3	12	8	1	1	-	-	
	A57	60	-	-	-	-	-	-	-	-	-	-	7	6	7	8	8	9	5	2	2	-	-	







Int'l List No.	Cause of Death (Intermediate List) (7th Rev.)	Age																	Total	Unknown			
		0 - 27 days	28 d. - 1 yr.	1 - 4 yrs.	5 - 9 yrs.	10 - 14 yrs.	15 - 19 yrs.	20 - 24 yrs.	25 - 29 yrs.	30 - 34 yrs.	35 - 39 yrs.	40 - 44 yrs.	45 - 49 yrs.	50 - 54 yrs.	55 - 59 yrs.	60 - 64 yrs.	65 - 69 yrs.	70 - 74 yrs.			75 - 79 yrs.	80 - 84 yrs.	85 - 89 yrs.
A58	A. Other Digestive organs 155 - 159	M 18	-	1	-	-	-	-	-	-	-	-	-	-	2	2	2	1	5	3	1	-	-
A59	B. Urinary Organs 180, 181	F 20	-	-	-	-	-	-	-	-	-	-	-	-	1	3	2	5	6	2	-	-	-
A60	C. Brain and other parts of nervous system 193	M 18	-	-	-	-	-	-	-	-	-	-	-	-	1	4	3	1	3	4	-	-	-
A60	D. Other	F 6	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	-	-	-	1
A60	Leukaemia and Aleukaemia	M 7	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	-	-	-	-	-
A60	Lymphosarcoma and other neoplasms of lymphatic and haematopoietic system	F 3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
A60	A. Hodgkin's disease (201)	M 9	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	4	1	-	-	-
A60	B. Other	F 31	-	-	-	-	-	-	-	-	-	-	-	-	3	5	2	2	2	3	2	-	-
A60	Benign neoplasms and neoplasms of unspecified nature	M 18	-	1	-	-	-	-	-	-	-	-	-	-	1	5	2	2	4	1	-	-	-
A60	III & IV. Allergic Disorders and endocrine metabolic and Blood diseases	F 9	-	2	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	3	1	-	-
A60	Non Toxic Goitre	M 8	-	-	-	-	-	-	-	-	-	-	-	-	1	3	2	2	1	4	-	-	-
A60	Diabetes Mellitus	F 13	-	-	-	-	-	-	-	-	-	-	-	-	1	3	2	2	1	4	-	-	-
A60	Avitaminosis and other deficiency states	M 2	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	-	-	-	-
A60	Anemias	F 2	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	3	1	-	-
A61	Other	M 6	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	1	1	4	-	-	-
A61	Benign neoplasms and neoplasms of unspecified nature	F 11	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	2	1	4	-	-	-
A61	III & IV. Allergic Disorders and endocrine metabolic and Blood diseases	M 5	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	2	-	-	-
A61	Non Toxic Goitre	F 8	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	2	1	2	-	-	-
A61	Diabetes Mellitus	T 57	-	1	-	-	-	-	-	-	-	-	-	-	1	4	4	14	6	10	3	-	-
A61	Avitaminosis and other deficiency states	M 29	-	1	-	-	-	-	-	-	-	-	-	-	1	4	2	8	4	6	-	-	-
A61	Anemias	F 28	-	-	-	-	-	-	-	-	-	-	-	-	1	4	2	6	2	4	3	-	-
A63	Other	M 1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	-	-	-	-
A63	Diabetes Mellitus	F 14	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	-	-	-	-
A64	Avitaminosis and other deficiency states	M 17	-	-	-	-	-	-	-	-	-	-	-	-	1	3	1	4	2	3	2	-	-
A65	Anemias	F 1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	-	-	-
A65	Other	M 4	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	-	-	-
A65	Anemias	F 2	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	-	-	-





Int'l List No.	Cause of Death (Intermediate List) (7th Rev.)	Age																	Total					
		0 - 27 days	28 d. - 1 yr.	1 - 4 yrs.	5 - 9 yrs.	10 - 14 yrs.	15 - 19 yrs.	20 - 24 yrs.	25 - 29 yrs.	30 - 34 yrs.	35 - 39 yrs.	40 - 44 yrs.	45 - 49 yrs.	50 - 54 yrs.	55 - 59 yrs.	60 - 64 yrs.	65 - 69 yrs.	70 - 74 yrs.		75 - 79 yrs.	80 - 84 yrs.	85 - 89 yrs.	90 yrs. +	Unknown
A66	Allergic disorders, all other endocrine, metabolic and blood diseases	M 10	-	1	-	-	-	-	-	-	1	2	1	-	-	-	3	1	2	-	-	-	-	-
		F 8	-	-	-	1	-	-	-	-	-	-	1	-	-	-	2	-	-	-	1	-	-	-
A67	V. Mental, psychoneurotic and personality disorders	T 2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-
		M 2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-
		F 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A68	Psychoneuroses and disorders of personality	M 1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
		F -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A70	VI. Diseases, of the nervous system and sense organs	T 304	-	1	1	-	1	1	1	3	1	5	10	8	13	21	43	67	71	32	22	1	-	-
		M 143	-	-	-	-	-	2	2	1	2	4	6	3	6	7	17	39	33	16	9	-	-	-
		F 161	-	1	1	-	1	1	1	2	1	4	5	5	7	14	26	28	38	16	13	1	-	-
A72	Vascular lesions affecting central nervous system	M 134	-	-	-	-	-	2	2	4	5	3	3	3	3	7	17	37	33	14	9	-	-	-
		F 148	-	-	-	-	-	1	1	2	1	4	5	7	11	23	27	36	16	13	1	-	-	-
A73	Multiple Sclerosis	M -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F 2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
A78	Epilepsy	M 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
		F 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
A80	All other diseases of the nervous system and sense organs	M 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F 9	-	1	1	-	-	1	1	-	-	-	-	-	3	2	2	-	-	2	-	-	-	-
		T 1017	-	-	-	-	1	1	1	6	14	32	43	56	98	110	180	191	150	91	43	-	-	-
		M 634	-	-	-	-	1	1	1	5	11	29	41	40	71	65	108	111	90	44	16	-	-	-
		F 383	-	-	-	-	-	-	-	1	3	3	2	16	27	45	72	80	60	47	27	-	-	-
		M 12	-	-	-	-	-	-	-	-	-	2	2	1	2	2	1	1	2	-	1	-	-	-
		F 15	-	-	-	-	-	-	-	-	-	-	-	2	1	3	5	2	-	-	1	-	-	-

Year	Number of Cases	Deaths	Age Group	Sex	Occupation	Place of Residence	Other	Total
1980	12	0	15-24	M	Student	Urban		12
1981	15	0	15-24	M	Student	Urban		15
1982	283	0	15-24	M	Student	Urban		283
1983	234	0	15-24	M	Student	Urban		234
1984	1011	0	15-24	M	Student	Urban		1011
1985	8	0	15-24	M	Student	Urban		8
1986	8	0	15-24	M	Student	Urban		8
1987	5	0	15-24	M	Student	Urban		5
1988	1	0	15-24	M	Student	Urban		1
1989	5	0	15-24	M	Student	Urban		5
1990	109	0	15-24	M	Student	Urban		109
1991	134	0	15-24	M	Student	Urban		134
1992	101	0	15-24	M	Student	Urban		101
1993	143	0	15-24	M	Student	Urban		143
1994	304	0	15-24	M	Student	Urban		304
1995	1	0	15-24	M	Student	Urban		1
1996	1	0	15-24	M	Student	Urban		1
1997	1	0	15-24	M	Student	Urban		1
1998	1	0	15-24	M	Student	Urban		1
1999	1	0	15-24	M	Student	Urban		1
2000	1	0	15-24	M	Student	Urban		1
2001	1	0	15-24	M	Student	Urban		1
2002	1	0	15-24	M	Student	Urban		1
2003	1	0	15-24	M	Student	Urban		1
2004	1	0	15-24	M	Student	Urban		1
2005	1	0	15-24	M	Student	Urban		1
2006	1	0	15-24	M	Student	Urban		1
2007	1	0	15-24	M	Student	Urban		1
2008	1	0	15-24	M	Student	Urban		1
2009	1	0	15-24	M	Student	Urban		1
2010	1	0	15-24	M	Student	Urban		1
2011	1	0	15-24	M	Student	Urban		1
2012	1	0	15-24	M	Student	Urban		1
2013	1	0	15-24	M	Student	Urban		1
2014	1	0	15-24	M	Student	Urban		1
2015	1	0	15-24	M	Student	Urban		1
2016	1	0	15-24	M	Student	Urban		1
2017	1	0	15-24	M	Student	Urban		1
2018	1	0	15-24	M	Student	Urban		1
2019	1	0	15-24	M	Student	Urban		1
2020	1	0	15-24	M	Student	Urban		1
2021	1	0	15-24	M	Student	Urban		1
2022	1	0	15-24	M	Student	Urban		1
2023	1	0	15-24	M	Student	Urban		1
2024	1	0	15-24	M	Student	Urban		1
2025	1	0	15-24	M	Student	Urban		1
2026	1	0	15-24	M	Student	Urban		1
2027	1	0	15-24	M	Student	Urban		1
2028	1	0	15-24	M	Student	Urban		1
2029	1	0	15-24	M	Student	Urban		1
2030	1	0	15-24	M	Student	Urban		1

No. (Age Group)  
 Sex (Male/Female)  
 Cause of Death



























Int'l List No.	Cause of Death (Intermediate List) (7th Rev.)	Age														Total									
		0 - 27 days	28 d. - 1 yr.	1 - 4 yrs.	5 - 9 yrs.	10 - 14 yrs.	15 - 19 yrs.	20 - 24 yrs.	25 - 29 yrs.	30 - 34 yrs.	35 - 39 yrs.	40 - 44 yrs.	45 - 49 yrs.	50 - 54 yrs.	55 - 59 yrs.		60 - 64 yrs.	65 - 69 yrs.	70 - 74 yrs.	75 - 79 yrs.	80 - 84 yrs.	85 - 89 yrs.	90 yrs. +	Unknown	
		T	189	4	13	12	7	2	9	13	4	9	11	8	8	16	15	10	3	10	6	8	11	9	1
		M	120	2	8	7	5	2	8	10	4	6	6	6	6	11	10	6	2	3	5	3	5	4	1
		F	69	2	5	5	2	-	1	3	-	3	5	2	2	5	5	4	1	7	1	5	6	5	-
A138	Motor Vehicle accidents	M	29	-	-	2	2	-	6	7	-	-	2	1	1	2	-	1	1	-	2	1	1	-	-
		F	14	-	1	-	-	-	1	2	-	-	1	1	-	1	3	2	-	1	-	1	-	-	-
A139	Other transport accidents	M	4	-	-	-	-	-	-	1	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-
A140	Accidental Poisoning	F	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-
A141	Accidental Falls	M	10	-	-	1	-	-	-	-	2	1	2	1	-	-	-	1	-	-	-	-	-	-	-
A142	Accident Caused by machinery	F	3	-	-	-	-	-	-	-	-	1	1	-	-	-	-	1	-	-	-	-	-	-	-
A143	Accident caused by fire and explosion of combustible material	M	20	-	-	-	-	-	-	-	1	1	1	1	-	-	1	1	1	1	2	2	3	3	-
A144	Accident caused by hot substance corrosive liquid, steam and radiation	F	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3	6	5
A146	Accidental drowning and submersion	M	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A147	All other accidental causes	F	9	-	1	4	2	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-
		M	3	-	-	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
		F	25	2	8	1	-	1	1	2	-	-	1	-	-	1	1	2	-	1	1	-	1	1	-
		M	7	1	3	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-	-
A148	All accidental causes	M	99	2	8	7	5	2	7	10	3	3	6	6	3	4	5	6	2	3	5	3	5	4	-
		F	56	2	5	5	2	-	1	2	-	2	2	2	2	2	4	3	1	6	1	5	6	5	-
A149	Suicide	M	20	-	-	-	-	-	1	-	-	3	-	-	-	7	5	-	-	-	-	-	-	-	-
		F	11	-	-	-	-	-	1	-	-	1	3	-	1	3	1	1	-	-	-	-	-	-	-
		M	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-

Causes of Death (Intermediate List) (7th Rev.)











DISTRICT	DEATHS		BIRTHS		INFANT DEATHS		STILLBIRTHS		GENERAL DEATHS	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
						100 LB		1000 LB		1000 LB
1	28	4.0	179	25.7	9	5.0	1	0.8	-	-
2	17	5.0	61	14.2	2	3.3	-	-	-	-
3	15	5.5	118	15.9	1	0.8	-	-	-	-
4	11	9.0	64	13.7	-	-	3	4.7	-	-
5	5	9.1	212	26.5	7	3.2	6	2.8	-	-
6	7	9.7	10	2.1	8	4.1	-	1.5	-	-
7	11	9.4	174	17.0	1	0.9	-	-	-	-
8	20	9.8	32	25.1	1	2.4	2	2.4	-	-
9	11	11.1	86	20.4	1	1.2	-	4.7	-	-
10	21	11.9	111	19.2	2	2.7	1	0.9	-	-
11	12	10.7	24	14.2	1	1.7	1	4.2	-	-
12	4	11.4	68	17.6	1	1.5	1	1.3	-	-
13	7	11.3	100	18.6	2	2.0	1	1.0	-	-
14	7	12.4	28	25.4	-	-	1	1.4	-	-
15	9	11.8	13	7.8	1	1.8	3	2.7	-	-
16	13	11.3	11	4.3	-	-	-	-	-	-
17	8	11.1	12	5.1	5	5.5	-	-	-	-
18	13	11.1	23	18.1	1	3.4	-	-	-	-
19	12	10.7	16	16.3	4	5.5	-	-	-	-
20	11	10.2	10	10.0	2	2.2	-	-	-	-
21	12	10.2	10	10.0	1	1.0	-	-	-	-
22	11	10.0	10	10.0	1	1.0	-	-	-	-
23	11	10.0	10	10.0	1	1.0	-	-	-	-
24	11	10.0	10	10.0	1	1.0	-	-	-	-
25	11	10.0	10	10.0	1	1.0	-	-	-	-
26	11	10.0	10	10.0	1	1.0	-	-	-	-
27	11	10.0	10	10.0	1	1.0	-	-	-	-
28	11	10.0	10	10.0	1	1.0	-	-	-	-
29	11	10.0	10	10.0	1	1.0	-	-	-	-
30	11	10.0	10	10.0	1	1.0	-	-	-	-
31	11	10.0	10	10.0	1	1.0	-	-	-	-
32	11	10.0	10	10.0	1	1.0	-	-	-	-
33	11	10.0	10	10.0	1	1.0	-	-	-	-
34	11	10.0	10	10.0	1	1.0	-	-	-	-
35	11	10.0	10	10.0	1	1.0	-	-	-	-
36	11	10.0	10	10.0	1	1.0	-	-	-	-
37	11	10.0	10	10.0	1	1.0	-	-	-	-
38	11	10.0	10	10.0	1	1.0	-	-	-	-
39	11	10.0	10	10.0	1	1.0	-	-	-	-
40	11	10.0	10	10.0	1	1.0	-	-	-	-
41	11	10.0	10	10.0	1	1.0	-	-	-	-
42	11	10.0	10	10.0	1	1.0	-	-	-	-
43	11	10.0	10	10.0	1	1.0	-	-	-	-
44	11	10.0	10	10.0	1	1.0	-	-	-	-
45	11	10.0	10	10.0	1	1.0	-	-	-	-
46	11	10.0	10	10.0	1	1.0	-	-	-	-
47	11	10.0	10	10.0	1	1.0	-	-	-	-
48	11	10.0	10	10.0	1	1.0	-	-	-	-
49	11	10.0	10	10.0	1	1.0	-	-	-	-
50	11	10.0	10	10.0	1	1.0	-	-	-	-
TOTAL	606	10.2	2165	21.7	63	2.9	38	5.1	-	-

City of Winnipeg - Statistical Districts





DEATHS, BIRTHS, INFANT DEATHS, STILL BIRTHS AND MATERNAL DEATHS  
 BY STATISTICAL DISTRICTS WITH RATES AS SHOWN - WINNIPEG RESIDENTS 1964

DISTRICT	POPULATION**		DEATHS		BIRTHS		INFANT DEATHS		STILLBIRTHS		MATERNAL DEATHS	
	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate 100 LB	No.	Rate 1000LB	No.	Rate 1000 LB
1	6,972	28	4.0	179	25.7	9	5.0	1	0.6	-	-	
2	4,291	17	4.0	61	14.2	2	3.3	-	-	-	-	
3	7,399	48	6.5	118	15.9	1	0.8	-	-	-	-	
4	3,495	35	10.0	64	18.3	-	-	3	4.7	-	-	
5	8,904	90	10.1	218	24.5	7	3.2	6	2.8	-	-	
6	9,200	97	10.5	194	21.1	8	4.1	3	1.5	-	-	
7	6,466	61	9.4	110	17.0	1	0.9	-	-	-	-	
8	3,262	32	9.8	82	25.1	2	2.4	2	2.4	-	-	
9	4,218	47	11.1	86	20.4	1	1.2	4	4.7	-	-	
10	5,796	75	12.9	111	19.2	3	2.7	1	0.9	-	-	
11	1,688	18	10.7	24	14.2	1	4.2	1	4.2	-	-	
12	3,857	44	11.4	68	17.6	1	1.5	1	1.5	-	-	
13	5,364	42	7.8	100	18.6	2	2.0	1	1.0	-	-	
14	3,216	25	7.8	72	22.4	-	-	1	1.4	-	-	
15	4,788	45	9.4	113	23.6	2	1.8	3	2.7	-	-	
16	6,088	51	8.4	123	20.2	-	-	-	-	-	-	
17	4,714	26	5.5	104	22.1	6	5.8	-	-	-	-	
18	1,554	56	36.0	29	18.7	1	3.4	-	-	-	-	
19	5,927	106	17.9	113	19.1	4	3.5	2	1.8	-	-	
20	3,925	77	19.6	64	16.3	-	-	-	-	-	-	
21	7,490	96	12.8	232	31.0	7	3.0	5	2.2	-	-	
22	4,576	48	10.5	115	25.1	4	3.5	1	0.9	-	-	
23	2,145	14	6.5	69	32.2	1	1.4	-	-	-	-	
24	4,215	30	7.1	84	19.9	-	-	2	2.4	-	-	
25	13,147	132	10.0	315	24.0	6	1.9	5	1.6	-	-	
26	4,496	32	7.1	58	12.9	1	1.7	1	1.7	-	-	
27	8,495	59	6.9	188	22.1	5	2.7	6	3.2	-	-	
28	3,154	15	4.8	30	9.5	-	-	-	-	-	-	
29	4,117	35	8.5	92	22.3	1	1.1	1	1.1	-	-	
30	4,242	40	9.4	88	20.7	5	5.7	-	-	-	-	
31	3,651	38	10.4	69	18.9	2	2.9	1	1.4	-	-	
32	8,308	77	9.3	240	28.9	3	1.3	3	1.3	-	-	
33	5,981	65	10.9	185	30.9	4	2.2	4	2.2	-	-	
34	4,613	42	9.1	113	24.5	2	1.8	2	1.8	-	-	
35	8,664	107	12.3	189	21.8	2	1.1	4	2.1	-	-	
36	1,576	45	28.6	18	11.4	2	11.1	1	5.6	-	-	
37	4,447	70	15.7	57	12.8	1	1.8	-	-	-	-	
38	5,669	73	12.9	166	29.3	4	2.4	2	1.2	-	-	
39	5,863	56	9.6	84	14.3	3	3.6	-	-	-	-	
40	7,651	71	9.3	153	20.0	4	2.6	5	3.3	-	-	
41	8,189	64	7.8	189	23.1	2	1.1	1	0.5	-	-	
42	4,459	61	13.7	148	33.2	2	1.4	2	1.4	-	-	
43	7,595	79	10.4	149	19.6	5	3.4	-	-	-	-	
44	7,786	45	5.8	110	14.1	4	3.6	4	3.6	-	-	
45	3,819	34	8.9	40	10.5	-	-	2	5.0	-	-	
46	3,967	34	8.6	46	11.6	1	2.2	-	-	-	-	
47	4,505	31	6.9	56	12.4	-	-	-	-	-	-	
48	11,485	83	7.2	217	18.9	6	2.8	2	0.9	-	-	
49	450	2	4.4	9	20.0	-	-	-	-	-	-	
Unknown	-	8	-	1	-	-	-	-	-	-	-	
TOTAL		2,606	10.2	5,543	21.7	128	2.3	83	1.5	-	-	

Rate per 1000 live births 23.1 15.0

\*\* Population according to Dominion Bureau of Statistics - 1961 Census

\* Rate per 1000 population



DEATHS, BIRTHS, INFANT DEATHS, STILL BIRTHS AND MATERNAL DEATHS BY STATISTICAL DISTRICTS WITH RATES AS SHOWN - WINNIPEG RESIDENTS 1964

DISTRICT	POPULATION*		DEATHS		BIRTHS		INFANT DEATHS		STILL BIRTHS		MATERNAL DEATHS	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
1	6,972	28	4.0	159	22.7	9	2.0	1	0.6	-	-	
2	6,291	17	4.0	64	16.2	2	0.3	-	-	-	-	
3	7,399	48	6.5	178	12.9	1	0.8	-	-	-	-	
4	3,492	22	10.0	64	18.3	-	-	3	4.7	-	-	
5	8,904	99	10.1	273	24.7	7	3.2	6	2.8	-	-	
6	9,200	97	10.2	192	27.1	8	4.1	3	1.2	-	-	
7	6,466	61	9.4	119	17.0	1	0.9	-	-	-	-	
8	3,262	32	9.8	82	22.1	2	2.4	2	2.4	-	-	
9	4,218	47	11.1	86	20.4	1	1.2	4	4.7	-	-	
10	2,796	72	12.9	111	19.2	3	2.7	1	0.9	-	-	
11	1,688	18	10.7	24	14.2	1	4.2	1	4.2	-	-	
12	3,827	44	11.4	68	17.6	1	1.2	1	1.2	-	-	
13	2,366	42	7.8	100	18.6	2	2.0	1	1.0	-	-	
14	3,216	22	7.8	72	22.4	-	-	1	1.4	-	-	
15	4,788	42	9.4	172	23.6	2	1.8	3	2.7	-	-	
16	6,088	21	8.4	129	20.2	-	-	-	-	-	-	
17	4,716	66	2.2	104	22.1	6	2.8	-	-	-	-	
18	1,224	26	26.0	29	18.7	1	2.4	-	-	-	-	
19	2,927	106	17.9	172	19.7	4	3.2	2	1.8	-	-	
20	2,922	77	19.6	64	16.7	-	-	-	-	-	-	
21	1,490	98	12.8	222	21.0	7	3.0	2	2.2	-	-	
22	4,276	28	10.2	119	22.1	4	3.2	1	0.9	-	-	
23	2,142	14	6.2	69	22.2	7	1.4	-	-	-	-	
24	4,272	30	7.1	84	19.2	-	-	2	2.4	-	-	
25	12,124	132	10.0	272	24.0	6	1.9	2	1.6	-	-	
26	6,296	92	7.1	28	12.9	1	1.7	-	-	-	-	
27	8,492	29	6.9	168	22.1	2	2.7	6	2.2	-	-	
28	3,124	12	4.8	30	9.2	-	-	-	-	-	-	
29	4,112	32	8.2	92	22.3	1	1.1	1	1.1	-	-	
30	4,262	60	9.4	88	20.7	2	2.7	-	-	-	-	
31	2,621	28	10.4	69	18.8	2	2.9	1	1.4	-	-	
32	8,298	72	9.2	240	28.9	3	1.3	3	1.3	-	-	
33	2,981	62	10.9	182	20.9	4	2.2	4	2.2	-	-	
34	4,612	42	9.1	112	24.2	2	4.8	2	1.8	-	-	
35	6,664	107	16.2	189	21.8	2	1.1	4	2.1	-	-	
36	1,276	28	26.6	18	11.4	2	11.7	1	2.6	-	-	
37	4,642	60	12.7	27	12.8	1	1.8	-	-	-	-	
38	2,669	23	17.9	166	20.2	4	2.4	2	1.2	-	-	
39	2,262	26	9.6	89	19.7	2	2.6	-	-	-	-	
40	7,621	71	9.2	123	20.0	6	2.6	2	2.3	-	-	
41	8,189	64	7.8	189	23.1	2	1.1	1	0.2	-	-	
42	4,229	61	12.7	148	20.2	2	1.4	2	1.4	-	-	
43	7,222	29	10.4	149	19.2	2	3.4	-	-	-	-	
44	7,786	42	5.8	110	14.1	4	3.6	4	3.6	-	-	
45	2,819	24	8.9	40	10.2	-	-	2	2.0	-	-	
46	2,967	24	8.6	46	11.6	1	2.2	-	-	-	-	
47	4,202	21	6.9	26	12.4	-	-	-	-	-	-	
48	11,482	83	7.2	217	18.9	6	2.8	2	0.9	-	-	
49	426	2	4.4	9	20.0	-	-	-	-	-	-	
50	-	8	-	1	-	-	-	-	-	-	-	
TOTAL	2,606	10.2	2,243	21.7	128	2.3	82	1.2	-	-	-	

\* Population according to Dominion Bureau of Statistics - 1961 Census  
 Rate per 1000 live births  
 23.1  
 12.0



## INFECTIOUS AND OTHER DISEASES

Information regarding the incidence of infectious diseases comes to our Department from a great variety of sources. Some of the most serious diseases and/or those necessitating immediate action to prevent further spread, are designated as notifiable diseases and the attending physician is usually the official informer. In the case of less serious illnesses, which may not be notifiable but always important for our Department to know, information may come from such informal sources as discussions between our colleagues and ourselves, visits to the local hospitals, our public health nurses, the press, the Provincial Department of Health, medical publications and communications, laboratories and other agencies or individuals.

In spite of this wide network of incoming information the Department cannot claim to have knowledge of all the notifiable infectious illnesses as under-reporting always exists. In the case of the non-reportable illnesses we are satisfied if we can establish prevailing trends.

Figures more accurate than usual are available in the case of some diseases for special reasons, for example hepatitis is more regularly notified because the material for a prophylactic injection (gamma globulin) is provided by the Health Department free of charge to all family contacts. In the case of the common infectious diseases of childhood (chickenpox, measles, mumps, etc.) which are not notifiable, the picture of their incidence is also more complete than expected for such non-reportable illnesses because of the close observations of public health nurses in the City schools during the school year -- observations which are in turn related to headquarters so that a knowledge of existing infections amongst our child population is known to the Department at all times during a year; valuable comparisons can then be made with corresponding figures in previous years and appropriate measures taken when necessary.

Viral diseases like measles, influenza and others transmitted via the respiratory route, were virtually uncontrollable in the past and their annual toll in terms of absenteeism, suffering, and occasional (fortunately quite rare) complication resulting in permanent disability, was more or less accepted as a necessary evil. In last year's Report the importance of recently discovered live attenuated measles vaccine was emphasized and a hope expressed that it will prove itself a useful and safe immunizing agent. Although up to the time that this Report is being written this vaccine is not available to all children in Winnipeg free of charge, as is the case with other immunizing agents, yet the extensive testing during the year by practicing physicians has now established the value and safety of this agent and it will not be long before a universal use for all children will be possible in this City. A great step forward in that direction was the discovery and marketing during the year of a further attenuated vaccine product which has curtailed the great majority of all side reactions to an absolute minimum. Also the price of these products is diminishing and we hope that it will cease to be prohibitive for universal usage as was the case when it first became available commercially.

### Comments on Particular Infectious Diseases

#### Impetigo:

This is a skin condition due to micro-organisms capable of







causing inflammation and sepsis and it is clinically characterized by the formation of crusts -- the result of drying of exudate from the lesions. It is readily communicable by direct contact and one can, therefore, easily understand why this has always been one of the commonest skin diseases in the school population.

Minor cases are treated under the supervision of our public health nurses and the affected children are temporarily excluded from school; the parents are told how to soak the lesions, remove the crusts and apply an antibiotic ointment (neomycin basis) which is provided by our Department free of charge for needy families. We are convinced that since the introduction of this antibiotic ointment last year to substitute for an older remedy (white precipitate) which was previously in use for many years, the results have been much more favourable in terms of both greater efficacy and shorter recovery period.

#### Ringworm:

This term refers to a fungus infection of the skin which is also communicable but less common than impetigo. Children are easily affected and in some instances the source can be traced to an animal pet such as a dog or cat. If this is suspected the animal in question is examined by a veterinarian. Affected children are, as in the case of impetigo, temporarily excluded from school until they improve and become non-infectious.

#### Infectious Hepatitis:

The problem of hepatitis is not a local one but a national and indeed a world-wide one. With improving sanitary conditions throughout the civilized countries natural immunization through subminimal exposure in infancy does not occur. The outcome is a generation of susceptible adults and adolescents, all forming a population with insufficient immunity to the disease. In a way the situation is comparable to polio and the method of transmission and epidemiology of the two diseases is similar. In the case of polio however the viruses causing the disease have been isolated in culture, which in time led to the discovery of effective vaccines (Salk and Sabin) so that control of the disease ultimately became possible. In the case of hepatitis the virus causing the disease has not, unfortunately, yet been isolated or cultured and consequently no immunizing agent is available at the present time. During 1964, one hundred and thirty-three cases were reported in this City with one death, which is remarkably unchanged since the previous two years (134 cases in 1963, 131 in 1962). Fortunately in the case of clinical hepatitis the disease is not so severe or incapacitating as in clinical polio and complete recovery is the rule. Death is rather rare and usually of the order of .2%. Permanent liver damage is also thought to be quite rare but actual proof of this fact is still lacking. Localized outbreaks of the disease have occurred in many parts of the North American continent and in some instances epidemics were traced to consumption of raw clams and shell-fish or to association with animals of the primate family used in various scientific experiments. No such outbreaks have occurred in this City and most cases were sporadic in distribution. Undoubtedly for every case of hepatitis diagnosed there are many more of mild undiagnosed disease; this latter can spread the virus to the same extent as actual patients do and may, in fact, be more important in propagating the illness as no one suspects them. From this it can readily be seen how difficult it is to control this illness in the community.





### Whooping cough: (Pertussis)

This disease is still a notifiable one but only six cases were reported in 1964. Following the incorporation of pertussis vaccine in immunization programs marked regression in both the incidence and severity of this illness occurred. Some mild cases probably pass unrecognized but in general it can confidently be said that whooping cough is no longer a health hazard in this community.

### Poliomyelitis:

No poliomyelitis occurred in Winnipeg during 1964 which becomes therefore another poliomyelitis-free year. This is not coincidental or due to chance, but an achievement resulting from continued effort to maintain this happy state of affairs. Paradoxically this effort becomes greater as more time elapses since the last case in this City occurred in 1959; the public tends to forget the disease and consequently the necessity for co-operating, and I quote from a recent article in the Canadian Journal of Public Health by Dr. I. McQueen -- "Yet these diseases are vanishing and so persuade parents to have their children vaccinated against polio or smallpox or immunized against diphtheria and whooping cough needs skill in persuasion and health teaching, not clinical or epidemiological knowledge of the particular disease".

The ten immunization clinics maintained by the Department have been active as usual this year, but in addition, the mass feeding program of Sabin vaccine was organized in April as part of a province-wide campaign similar to the initial one carried out in 1962 when oral polio virus vaccine became available. The oral live attenuated product presents great advantages over the previously used injectable inactivated virus preparation in that it confers better immunity; the resistance of individuals is built up at the level of the intestine itself and mass feeding of a population therefore eliminates the wild circulating polio viruses in the community (which when existent are always potential hazards for producing disease if a person without sufficient resistance is encountered). This city-wide campaign took a tremendous amount of effort to organize and conduct in various centers strategically chosen throughout the City. In spite of certain age and other specific restrictions imposed to satisfy newly adopted recommendations by the National Advisory Committee on Immunization Procedures the results were very gratifying. A total of 162,746 doses of vaccine were given, which means that 63.6% of our population received it. There were no complications reported that could be attributed to the vaccine. Sabin vaccine will soon be marketed in small packages by the manufacturer suitable for use by individual doctors and clinics. This change is expected early in the Spring of 1965 and plans are being made for modification of the presently existing immunization schedules to incorporate Sabin vaccine in the routine immunization of infants and children in Winnipeg Child Health Centers.

### Measles:

The facts about the importance of the newly discovered live attenuated measles vaccine have already been presented. As with all new methods and medicinal agents a great number of enquiries are directed to this Department both from the public and the profession asking for advice. In most instances public enquiries come in response to recent publications in the press and the subject of measles vaccine has received very wide publicity in North America. Although there is no doubt about the efficacy and the advisability of using this product -- and this Department has always recommended this without reservation -- in order to avoid undesirable complications of the







disease, yet admittedly there has been some exaggeration of the dangers of measles in these publications which have aroused unnecessary fears in the mind of many people. Contacts were investigated with negative results. The assumption was that the patient was an asymptomatic carrier without her knowledge.

Although the disease is not notifiable our impression from available information was that the amount of measles in this City in 1964 was less than during the previous year.

#### Mumps:

As in the case of measles there was less mumps in Winnipeg in 1964 in comparison to 1963, which was an epidemic year for mumps. The usual epidemiological characteristic of such diseases is that following an unusually severe year the disease incidence declines until enough susceptible individuals accumulate to restart a new group of cases. Although some work is being done no mumps vaccine is yet available commercially.

#### Influenza:

During the year there were no major epidemics of any significant severity. Several minor outbreaks of influenza-like illnesses occurred however, which caused some absenteeism in schools throughout the City. Late in December one particular outbreak was characterized by gastro-intestinal symptoms (mainly vomiting) and a brief period of fever. No particular pathogens were isolated.

#### Diphtheria:

This Department is in the fortunate position to state that there were no actual cases of diphtheria in 1964 (there were 3 in 1963) but six persons were found to harbour virulent diphtheria bacilli and were therefore designated as carriers. Most of these were confined to members of two Winnipeg families. One family was Treaty Indians who came into Winnipeg from a northern reserve. Carriers are potential sources of cases. Although it may be true that diphtheria in general is becoming a milder disease, yet maintenance of an adequate immunization status amongst our population is the only absolute safeguard as carriers have never been absent from this community. As stated previously, to convince people to keep their children immunized against a disease which has not recently caused serious trouble in a spectacular fashion is difficult, especially in certain areas of the City where some indifference in health matters prevails. Our public health nurses are carrying out a continuous campaign to bring the families in question to the Child Health and Immunization Centres that the Department operates throughout the City.

#### Dysentery:

The number of cases of bacillary dysentery remained approximately the same as last year but there was a further slight increase in the reported cases of "unspecified dysentery" (total of 160 cases). As pointed out in last year's report many of these are due to viral infections with gastro-intestinal manifestations including severe diarrhoea. It is not always possible to investigate or follow all these cases but as a rule a public health nurse visits the home and explains how spreading to the other members of the family can be avoided. The same principles apply to cases of infection with organisms known as "salmonella"; These are not classified as "dysentery" but their epidemiology is similar.

#### Typhoid:

Typhoid is due to salmonella organisms. There were no actual





cases during the year but three carriers were found. In one of these cases the organism was isolated following surgical removal of the gall bladder in a Winnipeg Hospital. Contacts were investigated with negative results. The assumption was that the patient was an asymptomatic carrier without her knowledge for a number of years. (Central Europe was her country of origin).

The two other cases were members of one family. Extensive investigation of contacts was done jointly with the Provincial Department of Health as these persons had been in several locations outside Winnipeg before they were discovered. A third member of the same family was also suspected of carrying the organism but this was not proven. All three members were treated until they were clear of their carrier status.

#### Meningococcal Meningitis:

This disease can be a very serious one. With the advent of antibiotic and chemotherapeutic drugs two decades ago the outlook is greatly improved providing the diagnosis is made early. Occasionally the illness strikes so suddenly that little can be done in time to save the life of the person involved. Infants and young children are generally affected. Two cases occurred in Winnipeg in 1964, one of them terminating fatally -- this was a 2½-year-old child living in crowded quarters. The illness was very sudden in onset and the patient expired before the lapse of twenty-four hours. Children contacts were all promptly visited and prophylactic antibiotic medication was given to prevent further cases.

The second case occurred in December, was not as severe as the previous one, and the patient recovered uneventfully.

#### Diarrhoea of the New Born:

Diarrhoea of the new born is not a serious problem in this City. Only eight cases were reported in comparison to fourteen last year. This condition can cause serious trouble, however, as it happened in an east coast province this year. In some instances such outbreaks occur and spread within the new born nurseries.

Conditions in new born and premature nurseries in Winnipeg hospitals are excellent. The Department is presently reviewing these facilities in Winnipeg through a survey. The hospitals and their staff have shown excellent co-operation and a highly satisfactory impression was so far obtained. The final report of the overall picture will be presented in 1965.

#### Scarlet Fever:

Scarlet fever is another example of a disease -- highly fatal a few decades ago -- whose severity has declined. This can only be partly due to the presently available antibiotic drugs, and "natural" decline in the virulence of the responsible micro-organism is probably equally responsible for the present day attenuation of this disease.

It is still reportable and children contacts are still being excluded from school unless placed on prophylactic chemotherapy. If this trend continues the above measure may prove unnecessary in the future.

Seventy-eight cases were reported during the year (in comparison to 89 last year). Most of them were mild and inconsequential and we are inclined to believe, as pointed out in last year's Report, that a number of cases are due to the consumption of alcohol and traffic accidents where again the difficulty, not being simply a health matter, cannot be effectively dealt with solely by health personnel.





them may in fact have been due to other infections with skin rashes simulating that of scarlet fever.

Summary and Conclusions

With few exceptions there has been a steady decline in the incidence of notifiable infectious illnesses in this City during recent years and in 1964 the total number was four hundred and ninety cases in all. Most of these cases were relatively mild in severity and complete recovery was the rule. Only twelve people died from infectious causes during the year, ten of them from tuberculosis, one from meningitis and one from hepatitis. In the year of 1900 in the United States the principal causes of death of the population were listed as

1900 - U.S.A.	
Principal Causes of Death	
1. Tuberculosis	
2. Pneumonia	
3. Diarrhea and Enteritis	
4. Heart Disease	
5. Diseases of Infancy and Malformations	

Needless to say this pattern has been completely reversed today. Since at one time these diseases constituted the commonest cause of death in an average North American community, we can only rejoice at seeing these causes ranking so low in the list now. However, this achievement is not a "natural" one and can only be maintained by continued effort. The more people forget about these diseases the greater does the burden of this effort become. Also this effort is not static; new progress has to occur and new methods have to be constantly devised to cope with the ever changing picture and epidemiology of these illnesses.

We also have to concern ourselves with the newly emerging diseases -- some of them the product of modern times, way of life, and the aging of our population. People at one time heavily stricken by death from infectious diseases are now surviving to an older age and consequently become susceptible to other illnesses. True, many of these illnesses, are "non-infectious" in the proper sense of the word but their incidence and epidemiology behaves in a way comparable to that of infectious disease. Unfortunately the etiology of many of these new conditions is often obscure and not readily preventable; "immunizing agents" are not only not available but no other effective remedy is predicted for the near future. Mental illness, cancer, arthritis, traffic and other accidents are only but a few examples. Note that our statistics this year show a perhaps small but definitely significant increase in suicide rates in this City, which is not easily explainable. In other cases an explanation is available, such as the relation between smoking and lung cancer, but the problem is so complex in our present socio-economic structure that no clear-cut practical action can be taken, although health authorities are trying their best to deal with this problem, mainly through the weapon of education of our younger population. The same applies to the relation between the consumption of alcohol and traffic accidents where again the difficulty, not being simply a health matter, cannot be effectively dealt with solely by health personnel.





COMMUNICABLE AND OTHER DISEASES  
TABLE OF REPORTABLE INFECTIOUS DISEASES

CASES AND DEATHS REPORTED	Under	2 - 5	5 - 16	Over	TOTAL	
	1 Year	1 Year	Years	16 Years	1964	1963
					CASES	DEATHS
D.P.T. & Polio Reinforcing Doses	220	446	704	73		862
Diarrhoea, of the New Born			8	-	14	-
Diphtheria Doses	1	3	-	7,5	9	3
Diphtheria Carriers	3	2	6	-	27	6
Dysentery, Amoebic			-	-	-	-
Dysentery, Bacillary			25	-	5	26
Dysentery, Unspecified	274	489	160	-	4	144
Encephalitis, Infectious	14	78	-	7,6	43	-
Hepatitis, Infectious	395	174	133	1	134	2
Meningitis, (Meningococcal)	11	8	2	1	2	1
Meningitis, (Viral or Aseptic)			12	-	16	1
Poliomyelitis			-	-	-	-
Scarlet Fever			78	-	89	-
Smallpox			-	-	-	-
Tuberculosis, Pulmonary			56	10	57	12
Typhoid Fever & Paratyphoid Fever			2	-	-	-
Typhoid Fever Carriers			3	-	-	-
Undulant Fever			-	-	2	-
Whooping Cough			6	-	10	-
Persons receiving Insulin (monthly average)					491	12
Persons receiving Liver Extract (monthly average)					503	16
Persons receiving prophylactic Penicillin (monthly average)					306	
(Persons with a history of rheumatic fever receive a daily dose of penicillin as a preventive measure against recurrence of the disease. The Health Department supplies this where indicated.)						
Children in Foster Homes and Welfare Institutions (monthly average)					862	





COMMUNICABLE AND OTHER DISEASES  
IMMUNIZATIONS AND VACCINATIONS COMPLETED

	Under 1 Year	1 Year	2 - 5 Years	6 - 16 Years	Over 16 Years	TOTAL
D.P.T. & Polio	220	446	330	26	-	1,022
Reinforcing Doses	11	73	701	75	2	862
D. T. & Polio	1	-	9	15	2	27
Reinforcing Doses	3	5	150	7,545	9	7,712
Tetanus & Polio	3	2	4	31	27	67
Reinforcing Doses	-	-	5	15	27	47
Diphtheria Toxoid	-	1	4	26	13	44
Reinforcing Doses	-	-	5	13	5	23
Total Immunizations	<u>224</u>	<u>449</u>	<u>347</u>	<u>98</u>	<u>42</u>	<u>1,160</u>
Total Reinforcing Doses	<u>14</u>	<u>78</u>	<u>861</u>	<u>7,648</u>	<u>43</u>	<u>8,644</u>
Smallpox Vaccinations	395	174	236	54	-	859
Re-Vaccinations	11	8	10	8	7	44

SABIN ORAL POLIO VACCINE PROGRAM  
April 20 - 24 & June 1, 1964

Winnipeg Schools .....	52,802
Child Health Centres.....	459
Public Clinics .....	86,544
Hospitals and Medical Services, Business and Industry.....	<u>22,941</u>
Total.....	<u>162,746</u>

MEDICAL RELIEF AND OTHER SERVICES

Patients visited by District Physicians .....	1,482
Glasses supplied to school children .....	715
Persons receiving Insulin (monthly average) .....	101
Persons receiving Liver Extract (monthly average) .....	6
Persons receiving prophylactic Penicillin (monthly average) .....	306
(Persons with a history of rheumatic fever receive a daily dose of penicillin as a preventive measure against recurrence of the disease. The Health Department supplies this where indicated.)	
Children in Foster Homes and Welfare Institutions (monthly average)	862





TUBERCULOSIS CONTROL

I DEATHS

During 1964 there were ten deaths of Winnipeg Residents due to tuberculosis, as compared with twelve in 1963. As a disease approaches the end-point of eradication, there is a great increase in the cost of the skill, effort and resources to trace the last remaining cases and treat them. The society which bears this cost may become somewhat disinterested in a disappearing disease and resent what may superficially appear to be a disproportionately large and costly effort to eradicate an uncommon disease. The Sanatorium Board of Manitoba and the City Health Department have spared no effort during 1964 to remind our citizens that tuberculosis is not yet extinct and that only through constant fighting can we prevent its threatened re-expansion.

The following table illustrates the total deaths from tuberculosis and the rates per 100,000 population in several selected years since 1910 and is presented for comparative purposes.

<u>Year</u>	<u>Number</u>	<u>Rate per 100,000</u>
1910	164	123.6
1940	52	23.0
1950	21	8.3
1960	16	6.3
1961	10	3.8
1962	7	2.7
1963	12	4.7
1964	10	3.9

Deaths by Age Group 1964

<u>Age Groups</u>	<u>Number of Deaths</u>
0 - 19	0
20 - 39	0
40 - 69	6
70 +	4
<u>Total</u>	<u>10</u>

II NEW ACTIVE CASES OF TUBERCULOSIS

In tuberculosis the number of deaths usually parallels and consists of a constant proportion of the total number of newly discovered cases. In 1964, 67 such cases were discovered and reported which is seven cases less than the previous year. Note, however, that in order to discover these 67 cases a much greater search was made including a much greater total number of diagnostic procedures.





	<u>New Cases</u>	<u>Rate per 100,000 population</u>	<u>Found on Surveys</u>
1959	79	26.5	4
1960	45	17.4	4
1961	68	26.5	3
1962	65	25.3	4
1963	74	28.8	6
1964	67	26.2	4

#### Tuberculosis New Active Cases and Reactivations 1964

<u>Age Group</u>	<u>New</u>	<u>Reactivations</u>
0 - 4	2	-
5 - 14	7	-
15 - 24	11	-
25 - 39	19	2
40 - 59	14	4
60 - 79	13	4
80 +	1	-
<u>Total</u>	<u>67</u>	<u>10</u>

Usually in tuberculosis on this continent and in recent years most of the new cases were discovered in the older age groups. This year some deviation from this trend was noted, many of the new cases being in younger groups as well.

The number of reactivations this year was even lower than last year's figure amounting only to ten cases. This may be the reflection of a closer follow-up of known cases carried out jointly by the Sanatorium Board of Manitoba and our Department. Our public health nurses bear the brunt of ensuring regular attendance of old tuberculosis cases to the hospital for follow-up and in many instances this is a very hard task as people who feel well at the moment accept with great reluctance the necessity to go for another examination.

#### How New Active Cases and Reactivations Were Discovered

	<u>New</u>	<u>Reactivations</u>
General Hospital	28	5
Private Physicians	21	2
Community Surveys	4	-
Chest Clinics	10	2
Vital Statistics	4	1
<u>Total</u>	<u>67</u>	<u>10</u>

Note that the two most rewarding methods of case finding is the diagnostic work performed by the practicing physicians and hospitals. Routine chest x-rays of patients presenting with a variety of complaints is being done with increasing frequency today with an occasional unexpected





discovery of pulmonary tuberculosis, cancer, heart disease or other disease. Doctors are increasingly realizing the important value of the chest film as a diagnostic tool.

### Classification of New and Reactivated Cases for 1964

	Tests	Tests Positive	New Cases	Reactivations
<b>PULMONARY</b>				
Schools	11,362	10,741	5	-
Colleges	94.5	not available	17	1
Industrial	12,400	11,863	16	2
			5	4
			1	-
<b>Total</b>	<b>23,994</b>	<b>22,604</b>	<b>44</b>	<b>7</b>
<b>TOTAL</b>	<b>23,994</b>	<b>22,604</b>	<b>44</b>	<b>18,431</b>
		<b>88.3</b>	<b>24.8</b>	<b>81.5</b>

Note that a considerable proportion of new pulmonary cases, are moderately advanced and occasionally far advanced at the time of discovery.

	New Cases	Reactivations
<b>EXTRA PULMONARY</b>		
Pleurisy	14	1
Glandular	2	-
Renal & Genital	2	1
Bone	1	1
Meningeal	2	-
Miliary	1	-
Peritonitis	-	-
Other	1	-
<b>Total</b>	<b>23</b>	<b>3</b>
<b>TOTAL</b>	<b>67</b>	<b>10</b>

Pulmonary tuberculosis in recent years, diminished to a greater extent than the extrapulmonary types and the total number of these latter cases tends to approach that of the pulmonary disease, which at one time was largely predominating, being the main contagious form of tuberculosis disease.

### III SURVEYS

Tuberculin tests were carried out in schools and selected industries by the Sanatorium Board of Manitoba. Plans are presently laid out for next spring for a detailed mass x-ray survey of a large section of our City where experience has shown that most cases of tuberculosis have occurred in recent years.

This survey will represent a joint effort of the Sanatorium Board and City Health Department in an attempt to discover hidden cases of tuberculosis in the community by means of a "door to door" campaign.





## IV SUMMARY

Tuberculin Tests in Winnipeg

The total number of tests done during the 1964 surveys was 25,594 as compared with 16,000 in 1963, which illustrates how much more was done this year to find approximately the same number of cases (4). greatest improvement in the control of this disease occurred in the first few decades. With the advent of chemotherapy the disease was achieved and the eventual disappearance of tuberculosis for cause of disability appeared as a far possible last years. However, this has not and a 4.8% still be said for this disease.

	<u>Tests</u>	<u>Tests Read</u>	<u>Positive</u>	<u>Negative</u>
Schools	11,362	10,741	514	10,227
%		94.5	4.8	95.2
Colleges	1,832	not available	not available	1,432
%				78.2
Industrial	12,400	11,863	5,091	6,772
%		95.7	42.9	57.1
TOTAL	25,594	22,604	5,605	18,431
%		88.3	24.8	81.5

The main efforts of the City Health Department are in the 4.8% of tuberculin tests were positive in the schools among students examined. 42.9% were positive among industrial workers. Positive reactors were subsequently submitted to an x-ray examination. One active case was found in a school and two in industry.

During X-ray Surveys in Winnipeg under supervision by the city public health nurses, who keep performing the most vital part of this operation of tuberculosis control.

	<u>Number</u>	<u>New Active Cases</u>
Industrial	11,640	2
Schools and Colleges	2,910	1
National Employment Service	5,174	-
Central Tuberculosis Clinic, Survey Unit	2,170	1
	<u>21,894</u>	<u>4</u>

	<u>1963</u>	<u>1964</u>
Admissions to Sanatoria	61	74
Re-admissions to Sanatoria	5	1
Discharges from Sanatoria	46	74

Average number of cases under supervision by the City Health Department - 930

Note again that the total number of x-rays done by the Sanatorium Board has increased to 21,894 (from 14,904 in 1963.) The discharges from Sanatoria equalled the number of admissions, indicating a further shortening of the period of hospitalization for that disease.

There was only one re-admission in 1964 as compared with 5 in 1963 and 18 in 1962. This again reflects on the more adequate supervision of old cases.





#### IV SUMMARY

At the turn of the century tuberculosis was the most frequent cause of death in the civilized part of the world. With the development of epidemiological and overall public health measures, the first and greatest improvement in the control of this disease occurred in the first few decades. With the advent of chemotherapy during the last twenty years a further limitation of the disease was achieved and the eventual disappearance of tuberculosis as a major cause of death and disability appeared as being possible. In the last few years, however, this has not occurred and a toll is still being paid yearly for this disease.

Poor locality and depressed socio-economic conditions influence adversely the prevalence of this disease and this has been repeatedly demonstrated to be a major factor in this city year after year. The main efforts of the City Health Department are in the direction of supervision of discovered cases as they are treated at home following initial therapy in a hospital or sanatorium. We also see that these patients come back regularly for x-rays and medical examinations after they have been declared inactive to safeguard against possible relapses. Also to ensure that all close contacts of active cases are properly investigated.

During 1964 there were 930 cases under supervision by the city public health nurses, who keep performing the most vital part of this operation of tuberculosis control.

Finally, we would like to extend our thanks to all those who assisted in this work, especially the Sanatorium Board of Manitoba, without the help of which no achievement of any kind would be possible. We all realize that no further progress can be made in this disease without the constant co-operation of all the organizations concerned with its control.

In addition to the consultant services provided through the treatment clinics, the Director acts as a consultant to the Winnipeg General Hospital Welfare Dental Clinic, Mount Carmel Clinic and the Winnipeg School Board. The Branch also took an active part in the annual Manitoba Dental Health Week promotion.

The annual staff in-service training program in 1964 was held jointly with the Dental Staff of the Province. The program included conferences, reports, sessions on care and maintenance of dental equipment, organization, administration and techniques. The dental assistants completed the special course sponsored by the Manitoba Dental Association for Dental Assistants.

#### 2. Studies of the Local Dental Health Problem

Data collected by the Dental Branch indicates a trend is developing towards an improvement in the oral health of the child population of Winnipeg.

The approach of the Dental Branch in providing comprehensive dental treatment for a select group (Social Welfare and indigent children) seems to be effective in encouraging utilization of this service.





Maintenance care through CHILD DENTAL SERVICES spreads dental manpower hours over a larger group of children. Failure rates are kept low. The City of Winnipeg Child Dental Services Programme actively engages in the following public health measures:

- (1) Dental Health Education.
- (2) Studies of the local Dental Health Problems.
- (3) Utilization of Public Health Measures.
- (4) Dental Treatment.

## 1. Dental Health Education

In all fields of education as in dental health the most important step is to create an interest, motivate people to action, and then attempt to maintain improvements on a sustaining basis. In our program, major emphasis is placed on the primary school children and their parents (up to the Grade II level). This is accomplished through annual classroom dental inspections (106 sessions in 1964), parent notifications, and talks by the dentist with demonstrations in the classroom.

Co-operation by the public health nurses, the school board personnel, and the dental profession has indeed enhanced and produced a well-balanced program.

Free Dental Health Education material and teaching aids are made available to the public health nurses, school principals and teachers, parents, and pupils in order to create an interest with a resultant positive action toward improving the dental health for their community.

Dental Inspections (14,000 in 1964) are another positive approach in an education program. Interest and action can be obtained through notifications sent to the parent on their child's dental health and a request for information on the family's arrangement for providing dental services.

In addition to the consultant services provided through the treatment clinics, the Director acts as a consultant to the Winnipeg General Hospital Welfare Dental Clinic, Mount Carmel Clinic and the Winnipeg School Board. The Branch also took an active part in the annual Manitoba Dental Health Week promotion.

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## 2. Studies of the Local Dental Health Problems

Data collected by the Dental Branch indicates a trend is developing towards an improvement in the oral health of the child population of Winnipeg. School inspection visits, subjects selected on the basis of every tenth child according to the alphabetical listing of children in the school index. The approach of the Dental Branch in providing comprehensive dental treatment for a select group (Social Welfare and Indigent children) seems to be effective in encouraging utilization of this service.





Maintenance care through regular recall examinations and treatment planning spreads dental manpower hours over a larger group of children. Failure rates are kept to a minimum. The table below indicates that welfare recipients are seeking and co-operating in providing dental treatment for their children.

Welfare Children on Active Files

1959	345
1960	659
1961	852
1962	877
1963	1328
1964	1576

Dental supervision is also available for pre-school children.

3. Utilization of Public Health Measures

A. Classroom Dental Inspection Analysis

Table 1 is a compilation of data collected during the school terms 1963-1964 to 1959-1960. Comparing the school term 1963-1964 with 1959-1960 favourable progress can be observed in the percentage of children with caries, Kindergarten 77% to 56%; Grade I 84% to 62%; and Grade II 88% to 64%. On analyzing the caries free columns for the 1963-64 term (Kindergarten 44%; Grade I 38%; Grade II 36%) about 40% of the children inspected were in a preferred state of being caries free, as compared with 17% in the school term 1959-60. This increase must of necessity be mostly attributable to the benefits of fluoridation which Metro Winnipeg instituted in the year 1957.

Analyzing the data under the heading of 'attend dentist' for the year 1963-64 reveals that in Kindergarten less than half the children were reported to have attended a dentist whereas in Grade II more than three-fourths of the school children inspected had seen a dentist.

The constant figure of 20% of families of Grade I children requiring financial assistance in providing dental treatment is significant in projecting the requirements if this service is to be extended into the higher grades. Information collected during the 1963-64 inspection verifies this fact to be true in that 22% of the children in Grade II requested aid.

B. D.M.F.T. (Decay, Missing, Filled Teeth) "Specials"

Table II is a compilation of data on a sample of children born and raised in the Metro area of Winnipeg. Information was collected during regular school inspection visits, subjects selected on the basis of every tenth child according to the alphabetical listing of children in the school index card register.





Substantial improvements in the teeth of children is noted in this survey. In 1964 children age 7 showed a reduction in the D.M.F.T. rate of more than 50% from that of 1958. The average D.M.F.T. decrease in all groups (7, 9, 11, and 13 years old) from 1958 to 1964 is over 43% as compared with over 38% in 1963. Fluoridation, education, and readily available dental care may be cited as the contributing factors for this marked improvement.

Table III is a breakdown of data from 1958-64 compiled on the samples of the seven-year-old children born and raised in Metropolitan Winnipeg. During the past three years there has been more than a 50% reduction in the incidence of affected teeth.

#### 4. Dental Treatment

##### A. Dental Clinics

- (1) 136 Ellen Street - 2 chairs (also Emergency clinic)
- (2) William Whyte School - 2 chairs
- (3) King Edward School - 2 chairs
- (4) John M. King School - 1 chair

##### Handicapped Children

Dental Treatment clinics are located in strategic areas of the school system. The latest addition was the John M. King School Dental Clinic which went into operation in May 1964. Comprehensive dental treatment (some minor orthodontia) is provided for children whose families are on City of Winnipeg Public Welfare and resident children seven years of age and under (including pre-schoolers) whose families require economic assistance. Applications for treatment are subject to the approval of the school nurse. Dental emergencies (relief of pain or infection) are given priority and include all children (no age limit) who are in full-time attendance at any of the City schools.

##### B. Treatment

In 1964, 5,191 children were treated during the course of 15,273 patient visits to the clinics. Patients completed and provided with maintenance dental care to the extent of facilities available totalled 3,454 or 66%. 13,933 individual teeth were attended and of these 3,690 teeth were removed and 10,243 teeth were restored to healthy functioning units. Three-quarters of the patients accepted on an emergency treatment basis were 8 years of age and over and would account for a majority of the tooth extractions. Preventive and conservative dental procedures are emphasized in the management of child patients.

##### C. Recall Systems

Further dental treatment coverage is extended to a large group of children from co-operative and interested families through a periodic recall system. Patients qualify for this service by following the initially prescribed dental treatment plan. Regular maintenance care is an effective method of prevention and keeping oral irregularities under control. This has resulted in an increase in the number of children receiving benefits over a longer period of time.





There were 3,714 patients recalled and of these 1,484 or 40% had maintained or were returned to optimum dental health on their first appointment.

Failed appointments are a concern to the Branch and precautions are taken to eliminate many of the causative factors. In 1964 out of 17,326 assigned appointments 1,032 or 5.9% had failed. 264 of these failed appointments were new patients after having requested assistance and been approved by the public health nurse. Failed appointments were low in the recall group, 105 (2.8%) out of the 3,714, indicating an appreciation of the program and the effects of our dental health education. The advantage of having the clinics located in select schools permits replacement from within the school to fill the allotted time thus reducing lost dental manpower hours to a minimum.

There were 1,021 patients who cancelled (5.9%) and another suitable time arranged. Courtesy of advising the clinics in advance of an inability to keep an appointment suggests that the treatment service provided is appreciated by this clientele.

Table IV is a summary of the dental treatment groups by ages and Table V is an analysis of dental treatment services provided by the Health Department to school children for the year 1964.

#### Handicapped Children

The study of providing dental treatment for mentally retarded children attending a special school in the City was continued throughout 1964. Arrangements were made again to transport the eligible children to one of the regular dental treatment centres.

Table VI is a compilation of the dental services provided to children attending this school. The dental inspection program included all the children and dental treatment was available to all eligible children resident in the City of Winnipeg.

Dental Inspection revealed that approximately 54% of the children required dental attention (60% in 1963), 17% (13% in 1963) were found to be caries immune and 29% (27% in 1963) had the caries process under control through dental supervision.

In most cases mentally retarded children can be treated using normal dental procedure techniques. The major problem is providing ways and means for families who have the burden of raising a handicapped child to obtain dental service for the child, followed by a program to motivate the parents to take action in improving the child's dental health. A preferred method in handling these patients would be the establishment of a permanent type dental clinic within an institution or school for handicapped children where many of the conveniences and facilities are already established -- transportation, availability of patients, familiar surroundings, and environment.

Provision for dental treatment of mentally and physically handicapped children in the City and Province has improved but a great deal has yet to be done to make this service adequate. The problem is centered around neglect, misunderstanding, finances, lack of facilities, and trained personnel.





Adult Dental Services

The establishment of a Welfare Dental Clinic at the Winnipeg General Hospital in April 1963 has provided, to some degree, a dental program for adult welfare and medico-dental indigents in the Province of Manitoba. The clinic is located in the Out-Patients Department and is only in operation in the afternoons. Preventive, interceptive or restorative dentistry is available to interested and co-operative patients. The clinic is financed by the Manitoba Hospital Commission but is administered and operated by the City Health Department. Residents of the City of Winnipeg (Welfare and medico-dental indigents) are provided by the Health Department with dentures and repairs where indicated.

Staff

The staff of the Branch includes a full-time director, with a professional establishment of six and one-half full-time dentists. Two dentists were retained on a full-time staff, and eighteen dentists were employed on a sessional fee part-time basis. The auxilliary staff includes seven dental assistants and three clerks.

TABLE I  
Class Room Dental Inspection Information compiled by the City of Winnipeg  
General child population attending Kindergarten, Grade I and Grade  
Division No. 1. Permanent and Deciduous Dentition.

School Term	Total Inspect.	Caries Imm. Free		Dentistry Completed	Caries	Percentage of Children Filled		Applied Dentists
		Imm. Free	Completed			Extractions	Filled	
1959-1960	3,322	14	23	9	77	15	27	37
1960-1961	3,026	18	34	16	66	13	29	36
1961-1962	2,816	26	39	13	61	10	28	34
1962-1963	3,530	31	45	14	55	8	24	30
1963-1964	3,692	30	44	14	56	9	26	31
1959-1960	4,381	6	16	10	84	28	40	37
1960-1961	4,685	9	25	16	75	27	40	35
1961-1962	4,601	12	31	18	69	23	43	38
1962-1963	4,555	16	37	21	63	23	40	35
1963-1964	4,609	18	38	20	62	21	33	47
1959-1960	4,054	3	12	9	88	43	49	70
1960-1961	3,916	6	25	19	75	39	53	70
1961-1962	3,819	7	28	21	72	37	55	72
1962-1963	3,958	10	37	27	63	36	55	70
1963-1964	3,714	11	36	25	64	33	54	58

Definition of Terms:

- Caries Immune - (natural or acquired) - No visible evidence of caries on teeth, x-rays not used.
- Caries Free - Includes caries immune plus children whose dentistry was completed.
- Dentistry Completed - Children who attended a dentist and were in dental inspection.
- Caries, premature extraction, filled - 3 of children with these conditions.
- Attend Dentist - As indicated by presence of extraction, or filling questionnaire regardless of evidence. Does not include children supported by parents.
- Applied Dentistry - As indicated by the presence of a filling or extraction of these children may have regular dental examination.
- Request Dentistry - A written request for dental treatment.
- Approved - Screened by school nurse for eligibility to free dental services.
- Nil Interest - Questionnaires not returned by parents.





TABLE I  
Class Room Dental Inspection information compiled by the City of Winnipeg Health Department on the general child population attending Kindergarten, Grade I and Grade II in The Winnipeg School Division No. 1. Permanent and Deciduous Dentition.

School Term	Total Inspect.	Percentage of Children										Request Dentistry	Approved	Nil Int.
		Caries Free		Dentistry Completed	Caries	Extractions	Filled	Attend Dentist	Applied Dentistry	Request Dentistry	Approved			
		Imm.	Free											
Kindergarten	1959-1960	3,322	14	23	9	77	15	27	59	37	13	10	12	
	1960-1961	3,026	18	34	16	66	13	28	47	36	12	11	11	
	1961-1962	2,816	26	39	13	61	10	28	47	34	14	12	12	
	1962-1963	3,539	31	45	14	55	8	24	38	30	14	11	12	
	1963-1964	3,492	30	44	14	56	9	26	45	31	14	12	17	
Grade I	1959-1960	4,381	6	16	10	84	28	40	72	57	25	21	8	
	1960-1961	4,686	9	25	16	75	27	40	64	55	21	20	8	
	1961-1962	4,601	12	31	19	69	23	43	64	52	23	20	9	
	1962-1963	4,555	16	37	21	63	23	40	63	51	21	19	9	
	1963-1964	4,609	18	38	20	62	21	33	60	47	21	19	16	
Grade II	1959-1960	4,054	3	12	9	88	43	49	72	70				
	1960-1961	3,916	6	25	19	75	39	53	64	70				
	1961-1962	3,819	7	28	21	72	37	55	64	72				
	1962-1963	3,958	10	37	27	63	36	55	63	70				
	1963-1964	3,714	11	36	25	64	33	54	76	58	22	20	13	

Definition of Terms: -

- Caries Immune - (natural or acquired) - No visible evidence of caries in the deciduous or permanent teeth, x-rays not used.
- Caries Free - Includes caries immune plus children whose dentistry has been completed by a dentist.
- Dentistry Completed - Children who attended a dentist and were in optimum dental health at time of dental inspection.
- Caries, premature extraction, filled - % of children with these conditions.
- Attend Dentist - As indicated by presence of extraction, or filling, or reported by parent on questionnaire regardless of evidence. Does not include caries immune - some of these children may have regular dental examinations.
- Applied Dentistry - As indicated by the presence of a filling or premature extraction or both.
- Request Dentistry - A written request for dental treatment.
- Approved - Screened by school nurse for eligibility to free dental service.
- Nil Interest - Questionnaires not returned by parent.





TABLE II

School Dental Examinations of Children born in Metropolitan Winnipeg showing age, number examined and the average number of decayed, missing, and filled teeth per child.

Year	Age 7		Age 9		Age 11		Age 13	
	Number Exam.	D.M.F.T. per child	Number Exam.	D.M.F.T. per child	Number Exam.	D.M.F.T. per child	Number Exam.	D.M.F.T. per child
1958	106	2.1	80	3.8	99	5.2	81	8.3
1960	81	1.5	109	3.1	110	4.5	110	7.9
1961	221	1.4	192	2.7	174	4.3	44	6.0
1962	278	1.0	236	2.6	233	3.9	71	5.5
1963	243	.8	229	2.4	217	3.4	87	5.8
1964	238	1.0	276	2.3	214	3.4	57	4.5

D. 1958, 1960	single examiner, selected schools (high, medium & low income)								
1961	5 examiners, random sample	364	249	623	540	410	870	3,714	
1962	6 examiners, random sample								
1963	8 examiners, random sample	168	199	231	210	203	351	1,485	
1964	10 examiners, random sample								
F. Recalls	Failed Appointments	7	7	13	15	16	11	27	105
G. Emergency Patients		34	66	100	117	151	168	166	456

TABLE III

A sample of seven-year-old children born and raised in Metro Winnipeg showing premature lost, destroyed crowns, caries and restored permanent teeth. Average number of permanent teeth affected per child.

A. Patients notified of appointments - the number of patients applying and

Year	Children Examined	Premature lost	Crowns Destroyed	Other caries	Restored	DMFT
1958	106	0.01	0.03	1.40	0.68	2.1
1960	81	0.00	0.00	0.86	0.65	1.5
1961	221	0.02	0.01	0.93	0.39	1.4
1962	278	0.00	0.02	0.67	0.34	1.0
1963	243	0.00	0.00	0.53	0.29	0.8
1964	238	0.00	0.00	0.63	0.33	1.0

E. Recalls completed on first appointment - includes children whose maintenance care is attended to during the recall examination appointment.

F. Patients failed recall appointment - patients from D, who were contacted and failed to appear for scheduled appointment.

G. Emergency Patients - arrive at clinics for relief of pain and infection, no definite appointment scheduled.





TABLE IV

Summary of Dental Treatment Groups  
 (Number of Children) provided by  
 City of Waukegan 1964 Department - 1964.

X-rays (single films)	A G E								Total
	Preschool	5	6	7	8	9	10	Older	
A. Patients notified of Appointments	309	510	702	845	809	623	453	1,204	5,455
B. Failed Initial Appointment	14	47	53	41	35	20	9	45	264
C. Completed Patients	205	293	429	564	582	444	328	685	3,530
D. Patients Recalled 6-8 months	148	210	364	549	623	540	410	870	3,714
E. Recalls - Completed 1st visit	63	79	148	199	231	210	203	351	1,484
F. Recalls Failed Appointments	7	7	13	15	14	11	11	27	105
G. Emergency Patients	34	66	100	117	151	168	166	466	1,268

TABLE IV - Definition of Terms

- A. Patients notified of appointments - the number of patients applying and accepted for dental treatment.
- B. Failed initial appointment - patients assigned to dental clinics for treatment following school inspections and approved by the school nurse.
- C. Patients completed - children from Section A receiving comprehensive dental treatment as provided by the clinics.
- D. Patients recalled (6-8 months) - following last appointment when completed, (1963-1964).
- E. Recalls completed on first appointment - includes children whose maintenance care is attended to during the recall examination appointment.
- F. Patients failed recall appointment - patients from D, who were contacted and failed to appear for scheduled appointment.
- G. Emergency Patients - arrive at clinics for relief of pain and infection, no definite appointment scheduled.





TABLE V

Analysis of Child Dental Services provided by  
City of Winnipeg Health Department - 1964.

X-rays (single films) . . . . .	1,795
Exodontia - Deciduous Teeth . . . . .	3,110
- Permanent Teeth . . . . .	580
Anaesthetic (local) . . . . .	9,008
Restorative - (Number Teeth Completed - Filled)	
- Deciduous . . . . .	5,295
- Permanent . . . . .	4,492
- Treatment Fillings . . . . .	207
- Endodontics - Teeth completed . . . . .	410
Crowns - Celluloid . . . . .	7
- Stainless Steel . . . . .	38
Space Maintainers . . . . .	19
Prosthetic Appliances . . . . .	4
Prophylaxis (Complete) . . . . .	2,918
Topical Fluoride (Completed) . . . . .	964
Fillings Polished . . . . .	976
Parents Counselling . . . . .	431
Other treatments . . . . .	6,635
Refused (non co-operative). . . . .	60
Total Number assigned Dental Appointments . . . . .	17,326
Cancelled Appointments . . . . .	1,021
Failed Appointments . . . . .	1,032
Referred to Private Dentists. . . . .	17
Recalls (6-8 months). . . . .	3,714
School Inspection Clinics . . . . .	106
Classroom Dental Inspection (Approx. no. of children Oct. 1964 - Mar. 1965). . . . .	16,179

TABLE V

Analysis of Child Dental Services provided by  
City of Winnipeg Health Department - 1964

18,179	Classroom Dental Inspection
106	School Inspection Clinics
3,714	Recalls (6-8 months)
17	Referred to Private Dentists
1,032	Failed Appointments
1,021	Cancelled Appointments
17,326	Total Number assigned Dental Appointments
60	Released (non co-operative)
6,632	Other treatments
431	Parents Counselling
978	Fillings Polished
964	Topical Fluoride (Completed)
2,918	Prophylaxis (Completed)
4	Prosthetic Appliances
19	Space Maintainers
38	Crowns - Celluloid
7	- Stainless Steel
410	- Endodontics - Teeth completed
207	- Treatment Fillings
4,492	- Permanent
2,392	- Deciduous
	Restorative - (Number Teeth Completed - Filled)
9,008	Anesthetic (local)
280	- Permanent Teeth
3,110	Exodontia - Deciduous Teeth
1,792	X-rays (single films)

(Approx. no. of children Oct. 1964 - Mar. 1965)



PUBLIC HEALTH SERVICES

In the past three decades there has been a tremendous acceleration in the growth of public health services. The public health nurse is a family health worker who visits homes and schools, organizes and counsels mothers in child health conferences, demonstrates nursing care and treatments, participates with the sick, injured and handicapped and is the link between the hospital and the home. Her chief concern is with the general well-being of the community rather than with disease or conditions.

**Dental services provided children attending a school for retarded children - 1964**

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**Clinical Services**

Children attending clinic day and evening classes	53	
Children not attending clinic the sick, injured and handicapped	<u>22</u>	
Total eligible children		75
Patient appointments		163
Cancelled and failed appointments		2
Extractions: Deciduous	20	
Permanent	<u>13</u>	33
Restorations: Deciduous	29	
Permanent	<u>67</u>	96
Prophylaxis		57
Topical fluoride treatments		-
Patients completed to last appointment with facilities available		75
Children still attending school from the 1963 treatment group		34
Number of these children caries free or dental maintenance care completed on recall appointment		16
Refused treatment		1

**School Dental Inspection**

	Number of Children	Percent
Children with caries	154	54%
Children caries immune	49	17%
Children, caries controlled	<u>81</u>	<u>29%</u>
	284	100%

One of the products of increased acceleration in the health situation, the clerical establishment in the Nursing Division was increased by one clerk in 1964. Fifty volunteer workers were used to relieve the burden of some of the clerical duties in the school health program. The following paragraphs highlight some of the nursing activities in 1964.





School Health Services **PUBLIC HEALTH NURSING SERVICES**

In the past three decades there has been a tremendous accumulation of new scientific knowledge made available to the public for the improvement of living. The public health nurse, more than any other group of persons, is able to bring the message of these benefits to families and individuals. The public health nurse is a family health teacher. She visits homes and schools, organizes and counsels mothers in child health conferences, demonstrates nursing care and treatments, teaches expectant parents in day and evening classes, participates with others in the rehabilitation of the sick, injured and handicapped and is the link between the hospital and the home. Her chief concern is with the general welfare of people and families rather than with disease or conditions.

She communicates these health findings and needs to parents and other community.

Public Health Nursing Staff 1964

In 1964, the City of Winnipeg employed fifty-five nurses to disseminate health information to Winnipeg citizens. Forty-eight of these fifty-five nurses were field staff giving a ratio of one nurse to 5,348 people. Of the fifty-five nurses, thirty-five or sixty-four percent of the staff have been with the Health Department for over five years.

The City of Winnipeg Health Department Staff is the highest qualified nursing group in the Province. In 1964, ninety percent of the nursing staff had completed the necessary university qualifications in public health nursing.

During the year 1964, eight resignations and one retirement occurred. Nine appointments to the nursing staff were made. Two nurses were granted leave of absence to take post-graduate work at the University of Manitoba.

Distribution of Nursing Time

The Community's acceptance of public health nursing services is well documented by increasing demands for more service. To cope with these ever-increasing requests it has been necessary to analyze the distribution of nursing services with a view to establishing priorities. A review of the nurses' daily work reports in 1964, indicates the following distribution of nursing time:

51%	on school health services
20%	on home visiting
9%	on child health conferences
2%	on expectant parents classes
3%	on miscellaneous activities, such as special surveys and committees
15%	on various clerical activities

One of the products of increased acceleration in the health field is the volume of paper work that is required. To cope with this situation, the clerical establishment in the Nursing Division was increased by one clerk in 1964. Fifty volunteer workers were also used to relieve the nurses of some of the clerical duties in the school health program. The following paragraphs highlight some of the nursing activities in 1964.





## School Health Services

One of the chief purposes of the school health program is to screen out children with health problems that might impede educational progress, and to follow-up these health impairments until they are corrected.

Success in this particular endeavour and in the entire school health program depends mainly on the public health nurse who as a health teacher, counselor, interpreter and co-ordinator spends more than 51% of her time in this area of service. The nurse in the school not only deals with the individual pupils who are referred to her because of a health problem, but she also counsels and supports each member of the school staff in the management of health problems within the school. She communicates these health findings and needs to parents and other health agency personnel in the community.

The magnitude of the nurse's work in the school system is verified by a review of the tables that follow and in other sections on the school health services that appear in this report. These tables are as significant for what they reveal as for what they conceal. They do not show the intangible complex problems faced by public health nurses in dealing with children from broken homes, children suffering from parental neglect, children from alcoholic or working parents, children from homes where there is mental illness or sex problems. They do not indicate changing patterns in community health. To keep pace with these and other changes that are taking place in education and in the community, the school health program must be dynamic. More research in the school health program is indicated. One administrative aspect that needs to be clarified is the nurse-pupil ratio in a generalized public health nursing program. Another area that could be studied is the non-professional activities. Why should the school nurse spend approximately 40% of her professional time on the mechanical handling of records? Is there a more efficient method of screening defects in pupils in order to save professional time for both teacher and nurse? Should the level at which hearing defects are now tested be changed?

## Communicable Disease Control

In 1964, an annual survey conducted by public health nurses indicated that 4.2% of the children entering schools had no primary inoculation. Since 28% of these new admissions came from outside of Winnipeg, indications are that the local school children have a high degree of immunity. Arrangements were made for children requiring primary inoculations to receive them privately or by the Health Department. In addition, 5,889 children were given booster inoculations at school. Another 8,410 inoculations were given in child health centres. In April, 1964 Oral Sabin Poliomyelitis Vaccine was again offered to Winnipeg citizens and 162,746 doses were given. Ninety-six percent of Winnipeg school children have received a second feeding of this vaccine.

During 1964, there were 930 cases of tuberculosis under supervision by the City Public Health Nurses. Further details about the Tuberculosis Control Program will be found in another section of the report.





### Maternal Hygiene Service

Public health nurses made 1,441 home visits to teach pre-natal hygiene in 1964. This is a slight increase over the number of similar visits made in 1963. However, only 349 mothers registered for pre-natal classes during the year, a decrease of 127 mothers over 1963. Although there were no maternal deaths, and there was a slight decrease in the number of births, the 349 expectant mothers registered at these classes represent only six percent of the live births for the year.

In order to improve the attendance at these classes, printed notifications were mailed to all obstetricians and general practitioners in Winnipeg. A meeting was also held with the Head of the Obstetrical Department of the Faculty of Medicine and the Chairman of the Manitoba Medical Obstetrical Committee to review the maternal hygiene program and to discuss the possibility of joint meetings with obstetricians and public health nurses in the early part of 1965.

### Home Care Service

The public health nurses' program is an extension of all services of the Health Department. Her numerous contacts in Winnipeg homes may be necessitated by a variety of reasons such as unsanitary home conditions, food poisoning, accidents, a variety of infectious conditions or to teach mothers about the normal growth and development of their children.

In the year under review, 85,855 individuals were contacted in their homes. Approximately thirty-nine percent of these contacts were to infants and pre-school children, twenty-three percent were to school children and thirty-one percent to adults. Seven percent of the individuals were contacted for the purpose of gathering information for a research study to determine the effects of radiation in the production of chromosomal anomalies.

One major project undertaken by public health nurses in 1964 involved the making of home visits to all public recipient families with pre-school children. The purpose was to encourage these parents to bring their children to child health conferences for regular medical supervision and immunizations. This project not only necessitated repeated visits to 932 families, but also the setting up and maintenance of a case register so that the current health status of these children could be followed.

### Child Health Conferences

In the past 3 years the enrolment in child health centres has increased from 1,564 in 1962 to 3,182 in 1964, and increase of 50.8%. One of the most encouraging facts has been that the pre-school enrolment has tripled in the past 3 years increasing from 505 in 1962 to 1,497 in 1964. This increase is due partly to the rearrangement of immunization schedules and also to the concerted effort made by public health nurses in motivating parents to the importance of regular medical supervision for this age group.





## Child Caring Institutions SCHOOL MEDICAL SERVICES

The general plan Four day nurseries, seventeen nursery schools and seven child caring institutions were recommended for licensing and supervised by the Nursing Division in 1964. During the year, several contacts with the Department of Education were made to point out the need for a course to prepare personnel for nursery school work in Manitoba.

As in previous years, approximately sixty to sixty-five percent of entrance had received medical basic examinations within a two-year period prior to registration, in order of the last at least seventy-five per cent.

Diabetic Follow-Up

In 1964, the City Nutritionist was asked to visit the seventy-five diabetics who were receiving insulin or anti-diabetic drugs from the City. As these people are on a limited budget, the purpose of the visit was to find out how they were managing their diet. Thirty-two of these people needed diet instructions. Thirteen were not receiving regular meals and were exhibiting symptoms of insulin reaction. The majority of the diabetics complained of insufficient funds to manage their diet. Three were referred to the Public Welfare Department and were given extra allowance. All diabetics were instructed on the importance of an adequate diet and were given help with budgeting.

Staff Education

The Nursing Division continued to send members of the staff to the Selkirk Hospital for Mental Diseases to obtain up-to-date knowledge in psychopharmacology, the treatment of mental illnesses and rehabilitative practices. In 1964, eleven nurses were enrolled in this three-week program. In June, Dr. Kenneth McRae interpreted the use of a proposed developmental screening record and outlined the program of the new

Developmental Clinic at the Children's Hospital.

Once again may I express my personal appreciation to every member of the Nursing Division who, by their efforts and devotion to the best interests of public health, have helped to maintain the high standard of nursing service.

Major defects found (Speech, Vision, Enuresis, Hematuria, Cardiovascular, Musculoskeletal, undescended testicles, etc.)	42
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Minor defects found (Caries, otolaryngical, skin, etc.)	64
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Results of the 1964 summer project were so encouraging, that it will be repeated in 1965 with Dr. Annette Finkel, one of the top students in her class last year, undertaking to examine a similar number of pre-school welfare children. Every effort was made by public education and by means of a report presented to a school board meeting to emphasize the importance of a comprehensive pre-school medical examination by the private physician where possible, or in the Child Health Centres, if private medical care was not available. If the percentage of school entrants having a pre-school





### SCHOOL MEDICAL SERVICES

The general plan of organization of School Medical Services continues as before with the addition of the summer program for comprehensive pre-school medical examinations of welfare family children and expansion of the practical application of the School Health Handicap Registry.

As in previous years, approximately sixty to sixty-five percent of children on school entrance had received medical health examinations within a two-year period prior to registration, in spite of the fact that at least seventy-five percent of the population is now covered by voluntary health insurance plans. In order to reduce the number of routine medical examinations done in the schools for reasons referred to in previous reports, a Fourth-Year medical student, Dr. Robert Armbruster, was employed in the summer of 1964, with assistance from a National Health Grant, to carry out a comprehensive medical examination of one hundred and forty-four pre-school children of welfare families. Dr. Armbruster attended an intensive course of instruction under the direction of Assistant Professor Kenneth McRae of the University of Manitoba, in examination of pre-school children, and then proceeded to examine the children mentioned above in groups of six appointments, three afternoons a week, during July and August. Appointments were made by public health nurses, who often were required to make three or four home visits before the appointment was definitely confirmed. Even so, of two hundred and forty-four appointments made in this way, only 144 were kept. However, this number of children received a very satisfactory examination, including urinalysis and blood count, as well as a developmental assessment by the public health nurses and Dr. Armbruster.

The following Table reviews the major and minor findings resulting from this project:

Appointments made - 226

Appointments kept - 146

Major defects found - 42

Musculoskeletal, undescended testicles, etc.)

Minor defects found - 64

(Caries, otolaryngical, skin, etc.)

Results of the 1964 summer project were so encouraging, that it will be repeated in 1965 with Dr. Annette Finkel, one of the top students in her class last year, undertaking to examine a similar number of pre-school welfare children. Every effort was made by public education and by means of a report presented to a school board meeting to emphasize the importance of a comprehensive pre-school medical examination by the private physician where possible, or in the Child Health Centres, if private medical care was not available. If the percentage of school entrants having a pre-school





medical examination were increased from the present sixty to sixty-five percent to eighty or eighty-five percent, which is certainly quite possible, the school physicians and public health nurses working in the schools could concentrate their time in important areas of school health, and could probably help to expand the program of health education in the public schools.

The co-operation of the Nursing Division and the school administration is so. The School Health Handicap Registry continues to be of real value, and with the accumulated experience, more effective use is being made of it all the time. The full-time secretary, Mrs. Mulloy, has done an excellent job in bringing the records up to date and in making possible more efficiency in correspondence with private physicians in regard to school children and their health.

Listed below are the numbers involved in this Registry, which does not include learning disorders, emotional problems and children with intellectual subnormality.

Rheumatic heart disease	-	46
Congenital heart disease	-	62
Convulsive Disorders	-	86
Diabetes	-	37
Unclassified handicapping conditions	-	114
Seriously Visually handicapped	-	115

The Hearing program is at present under study, and up-to-date figures will be available shortly.

It is important to note that most school children, even with quite severe handicaps, are able to carry on quite satisfactorily in regular classrooms, and generally do a commendable job. A certain number are of course handicapped by not being able to participate in competitive sports or physical training programs, but this number is kept to a minimum and some children participate to the extent that their handicaps may allow. By means of frequent correspondence with physicians, it has been possible to increase participation in all school activities on the part of children with school handicaps which have become stabilized, or where the problem has actually become minimal.

The screening programs for vision, hearing, and the medical questionnaires, have continued to be useful and reasonably efficient in drawing attention to those school children who are having health problems in the schools.

Visits were made to schools during the year because of problems involving hepatitis and heart disease, and to observe the operation of school health conferences involving the school physician and the public health nurse. The work of the public health nurse is referred to elsewhere in these reports, but it is important to point out the important contributions of the school physicians, all of whom have now given several years of valuable service and have gained experience which is very valuable in their role as health





advisers and health counsellors. INSPECTION OF SCHOOL CHILDREN

Two meetings were held of school physicians, in order to discuss current problems relating to the health of the school child. th Total

Pupils examined The co-operation of the Nursing Division and the school administration is acknowledged with gratitude.

On Exclusion

Pediculosis	2	6	70	81	159
Skin Conditions (eg. Impetigo)	88	49	96	384	617
Suspect Communicable Diseases	343	142	322	794	1,601
Miscellaneous	<u>1,361</u>	<u>830</u>	<u>863</u>	<u>1,984</u>	<u>5,018</u>
Total	<u>1,774</u>	<u>1,027</u>	<u>1,351</u>	<u>3,243</u>	<u>7,395</u>
Treatments given	8,210	5,743	5,452	11,623	31,028
TOTAL	<u>9,984</u>	<u>6,770</u>	<u>6,803</u>	<u>14,866</u>	<u>38,423</u>

Classroom Inspections

Acute Communicable	11	5	18	254	290
General	<u>728</u>	<u>286</u>	<u>598</u>	<u>891</u>	<u>2,453</u>
Total	<u>739</u>	<u>291</u>	<u>616</u>	<u>1,145</u>	<u>2,743</u>
Conference re pupil (with pupil, parent, teacher, etc.)	31,564	28,628	24,496	31,803	116,491
Health Education	232	103	501	336	1,174
Accidents in Schools	353	467	223	305	1,358
Doctors' visits to schools	140	109	141	202	592
Children examined by doctor	1,297	921	1,206	1,645	5,071
Defects found in Medical Exams	238	353	445	391	1,427
Parents invited to physical exam	834	575	970	1,207	3,586
Parents present at physical exam	438	357	380	516	1,691
% of parents present	53%	62%	39%	43%	47%
D.T. & Folio Reinforcing Doses given in schools					5,978
Sabin Oral Poliomyelitis Vaccine					52,802

AUDIOMETRY REPORT

Children tested (Grade IV and referrals from other grades)	8,873
First Tests	7,467
Re-Tests	<u>1,406</u>
Total	<u>8,873</u>
Defects found	300
Teachers Tested	78
Others Tested	-





REPORT OF HEALTH INSPECTION OF SCHOOL CHILDREN

	DISTRICTS				Total
	South	West	East	North	
<u>Pupils examined in Health Service Room</u>					10
<u>On Exclusion</u>					
<u>New Pupils Admitted</u>					
Pediculosis	2	6	70	81	159
Skin Conditions (eg. Impetigo)	88	49	96	384	617
Suspect Communicable Diseases	343	142	322	794	1,601
Miscellaneous	1,341	830	863	1,984	5,018
Total	1,774	1,027	1,351	3,243	7,395
<u>Attendance at Sessions</u>					
Treatments given	8,210	5,743	5,452	11,623	31,028
<b>TOTAL</b>	<b>9,984</b>	<b>6,770</b>	<b>6,803</b>	<b>14,866</b>	<b>38,423</b>
<u>Classroom Inspections</u>					
Acute Communicable Consultations	11	5	18	256	290
General	728	286	558	881	2,453
Total	739	291	576	1,137	2,743
Conference re pupil (with pupil, parent, teacher, etc.)	31,564	24,628	24,496	33,803	114,491
Health Education	232	105	501	336	1,174
Accidents in Schools	363	467	223	305	1,358
Doctors' visits to schools	140	109	141	202	592
Children examined by doctor	1,297	921	1,208	1,645	5,071
Defects found in Medical Exams	288	353	445	391	1,477
Parents invited to physical exam	834	575	970	1,207	3,586
Parents present at physical exam	438	357	380	516	1,691
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Others Tested	-





## CHILD HEALTH CENTRES

	DISTRICTS				Total
	South	West	East	North	
Child Health Centres	1	3	3	3	10
Child Health Centre Sessions Held	50	151	153	107	461
<u>New Babies Admitted</u>					
Infants	262	564	492	367	1,685
Pre-school	255	322	392	382	1,351
Total	517	886	884	749	3,036
<u>Attendance at Sessions</u>					
Infants	1,346	3,858	2,175	2,054	9,433
Pre-school	1,299	2,077	2,018	2,041	7,435
School Children & Adults	169	444	485	314	1,412
Total	2,814	6,379	4,678	4,409	18,280
<u>Doctors' Examinations &amp; Consultations</u>					
Infants	198	546	623	376	1,743
Pre-school	234	507	276	220	1,237
Total	432	1,053	899	596	2,980
Immunizations by Doctors	1,096	2,760	2,126	2,428	8,410

## ATTENDANCE AT CHILD HEALTH CENTRES

Name of Centre	Immunizations		Consultations	
	Total	Sessions	Total	Sessions
St. Lukes	1,096	50	1,661	50
St. Matthews	1,349	50	1,960	50
St. Judes	957	50	1,276	50
Sparling	454	51	870	50
St. Andrews	1,055	51	1,210	51
Holy Trinity	450	51	647	51
Chalmers	621	51	908	51
Mount Carmel	373	10	60	3
Robertson House	992	49	1,499	50
McGregor	1,063	48	829	48
Total	8,410	461	10,920	454





CHILDREN'S HOSPITAL - EYE CLINIC REPORT

Number of Clinics held ..... 240

Number of Children Examined

PERSONAL SERVICES TO PATIENTS BY PUBLIC HEALTH NURSES

Total ..... 1,581

<u>Number of Refractions</u>	<u>DISTRICTS</u>				<u>Total</u>
	<u>South</u>	<u>West</u>	<u>East</u>	<u>North</u>	
<u>Refractions Completed</u>					
Newborn	1,372	1,489	1,253	1,431	5,545
Under 1 Year	1,646	1,386	1,462	2,703	7,197
Pre-School Children	3,743	3,233	4,503	8,367	19,846
School Children	3,607	2,832	4,544	7,719	18,702
<u>Refractions Not Completed</u>					
Adults	4,585	3,609	4,712	6,412	19,318
Pre-Natal Visits	266	248	288	639	1,441
Post-Natal Visits	1,173	1,446	1,143	1,428	5,190
Tuberculosis	257	278	381	610	1,526
Acute Communicable	72	53	65	391	581
Not Found	1,398	1,328	1,530	1,563	5,819
Not taken under care	34	16	79	25	154
Special Activity	39	147	80	156	422
Inspection for licensing of boarding homes	32	24	30	28	114
<u>Total</u>	<u>18,224</u>	<u>16,089</u>	<u>20,070</u>	<u>31,472</u>	<u>85,855</u>
Attendance at Pre-natal Classes	1,071	748	475	176	2,470
New Registrants to Pre-natal Classes	91	109	60	35	295
Attendance at Evening Pre-natal Classes	426	-	-	96	522
<u>Total</u>	<u>52,893</u>				<u>55,175</u>
Patients not seen					733
On behalf of patients					61
Total					794
Night Calls included in above					1,083





CHILDREN'S HOSPITAL - EYE CLINIC REPORT

Number of Clinics held ..... 240

Number of Children Examined

New ..... 528  
 Re-examined ..... 1,023  
 Total ..... 1,551

Number of Refractions

Refractions Completed

Not needing glasses ..... 216  
 Glasses prescribed ..... 760  
 No change on prescription. .... 392  
 Glasses discontinued ..... 8  
 Total ..... 1,376

Refractions Not Completed

Refractions not needed.... 18  
 Returned for observation.. 157  
 Total ..... 175

Number of Children with 1/3 or less normal vision with glasses ..... 2  
 Number of Out-patient consultations (Winnipeg residents) ..... 593  
 Number of Children referred to Orthoptic Clinic ..... 30

VICTORIAN ORDER OF NURSES

New Cases ..... 2,105

	<u>Nursing Care Visits</u>	<u>Health Inst. Visits</u>	<u>Total</u>
Pre-natal	4	47	51
Post-natal	23	296	319
Newborn	274	757	1,031
Infant	255	132	387
Pre-school	155	94	249
School	371	69	440
Adult	<u>52,698</u>		<u>52,698</u>
Total	<u>53,780</u>	<u>1,395</u>	<u>55,175</u>

Patients not seen ..... 733  
 On behalf of patients ..... 61  
 Total ..... 794  
 Night Calls included in above ..... 1,083





INSPECTIONS BRANCH

Dairy	Principal Inspector	R. Bentham	Cert.R. San.I.
Food	Principal Inspector	R.C. Morrow	D.V.M.,C.S.I.(C).
Housing	Principal Inspector	G.W. Kelly	Cert. R. San. I.
Sanitation & Hygiene	Principal Inspector	A. Cross	C.P.H.I.(C),M.R.S.H.
Chief Health Inspector		E.J. Rigby	D.V.M.,B.S.A.,C.S.I.(C).

On August 21st, 1964, the staff of the Inspections Branch moved into new offices on the fourth floor of the Administration Building, Civic Centre. The privilege of working in modern offices is a welcome change after being in temporary offices for many years.

Rabies: This disease continues to be a threat that must continually be guarded against. The Federal Department of Agriculture, Health of Animals Branch, reports that in 1964 in Manitoba the following animals were affected with rabies -- 2 cats, 21 cattle, 1 horse, 127 skunks, 7 dogs, 3 swine, 4 foxes and 1 racoon. cases -- 1 cat and 1 dog -- were within the limits of Winnipeg. These cases appear to be unrelated and the source of infection, in either case, was not found.

In the Province the disease is a most serious one that appears to be endemic in wildlife, particularly in skunks. It therefore is imperative that measures be continued to curtail the spread of the disease to domestic animals, especially dogs and cats. These include (1) Keeping the number of stray dogs and cats to a minimum. (2) Immunization of dogs against rabies. This is most important if the dog is to be taken to a summer resort or other area where it may come in contact with skunks, foxes, wolves or other wild animals.

All animals that bite a person are kept under observation for a period of fourteen days from the time of the bite. If the animal does not exhibit symptoms of rabies during this observation period it was not infective for rabies at the time the person was bitten and therefore it is unnecessary for the person to take the anti-rabies treatment. The Pound By-law has a clause in it requiring a fourteen day observation period for all cats and dogs that have bitten a human. Dogs generally are held for observation in the City Pound, whereas, since the Pound has no facilities for holding cats, it is necessary that cats be held in a veterinary hospital.

The Poundkeeper has been most co-operative carrying out his duties and making every effort to trace and apprehend stray dogs and cats. At various times the public were reminded via the press, radio and television that all incidents of bites by animals particularly dogs, cats and wild animals, should be reported.

Dairy Division:

Although the number of producers shipping milk to the fluid milk plants remained constant at 685 the volume of milk shipped increased from 13,000,000 lbs. to over 14,000,000 lbs. per month. All producers have





bulk tanks from which the milk is hauled by 26 tanker trucks.

Effective March 1, 1964, the plate loop count replaced the resazurin test for assessing the quality of raw milk entering the pasteurization plants. A standard was set of 100,000 per ml. for acceptable milk and 50,000 per ml. to qualify for the bonus. At the end of the year over 90% of the producers were shipping milk qualifying for the bonus. Producers shipping milk with a plate loop count over 100,000 ml. have their permit to ship milk suspended until they demonstrate that they can and will ship milk of acceptable quality. Samples of each producer's milk are tested at least twice monthly.

Over 2,500 inspections of producers' premises were made during the year. These premises show a steady improvement in appearance and sanitary conditions. All producers now have milk houses equipped to provide running hot water for washing utensils, electrically operated bulk tanks for cooling and storing the milk and employ modern methods in the production and handling of their milk. All cattle have been tested for both tuberculosis and brucellosis and reactors to the tests have been slaughtered.

Samples of milk, cream and other milk products distributed for public consumption are collected on a routine basis and submitted for testing in the laboratory in the Norquay Building. Results of these tests indicate that the quality of all products is good and recognized public health standards are being met. All milk and cream sold in Winnipeg is pasteurized.

Pasteurization plants are inspected at frequent intervals to ensure that the equipment, methods of processing, and sanitary conditions comply with the regulations.

Changes in equipment, methods of processing, packaging, distribution and selling methods are constantly taking place. It is imperative that inspectors be alert to these changes to ensure that such changes will not adversely affect the safety or quality of the final product. In order to keep abreast of current practice the pasteurization plant inspector attended a special course on "Milk Pasteurization Controls and Tests" conducted by the United States Public Health Service in Cincinnati. A National Health Training Grant was obtained to cover the expenses involved.

The 46 soft ice cream establishments are licensed and inspected during the season that they are in operation. Samples of the mix and the finished product are collected and tested to ensure that they meet acceptable bacteriological standards.

#### Food Division:

The Food Division is responsible for carrying out inspections for sanitary conditions in all food handling premises and that the food served to the general public is safe for human consumption. The total number of food handling premises varies from year to year with an average of approximately 1,800 premises. This number does not include the 536 food and drink vending machines which are located throughout the City and require a Medical Health Officer's permit to operate. During 1964, 788 food handling premises were licensed by the City of Winnipeg and required Medical Health Officer's permits; these include 482 restaurants, 64 caterers, 92





dance halls, 53 hotels, 10 sausage kitchens and the balance is made up of a variety of food premises. Unlicensed food handling premises include 21 supermarkets, 542 food stores, 51 bakeries, 51 private clubs, 57 wholesale premises, 57 canteens, 16 fish processors and 207 other premises.

Restaurants are inspected monthly and a follow-up contact made where an infraction has been noted. Bakeries require monthly inspections due to the type of ingredients used and the high humidity involved in processing.

The Red River Exhibition presented a problem for this Division in that 42 temporary refreshment booths were located throughout the grounds and midway; however through the presence of two food inspectors afternoons and evenings on the grounds for the 10 days the Exhibition was in operation and the fine co-operation of the operators of the booths, no serious problems arose.

Sausage manufacturers located within the city, all of which use only federally inspected meats for processing have, in several locations, taken steps to come under federal inspection. Construction is being carried on by one company renovating their premises while another company has started construction of a new plant in the Inkster Park Industrial Development Area, which will be ready for occupancy in the early part of 1965.

With the great strides taken in the past year in the processing of frozen foods a change in the handling of frozen foods may be necessary. It is felt that refrigerated trucks at a temperature of 0°F. or lower may be required to transport frozen foods from cold storage plants to retail outlets in order to protect the quality of such frozen foods.

It has been found that in the past year there is a trend throughout the hotels located within the City to replace a beer parlor licence with a beverage room and restaurant beer and wine licence, in which premises "mixed" drinking is allowed. It is felt that in the near future a beer parlor licence will be eliminated by public demand.

Plans were approved for 25 newly constructed food handling premises and for extensive renovations on 56 other food handling premises. During the year one new hotel was completed, while construction was started on two other hotels. A new shopping centre development was started in East Elmwood which when completed will be one of the most modern in the area.

Extensive swab testing of dishes, glasses and other utensils in drinking and eating establishments was re-instituted during the year. Owners and operators are very responsive to this type of inspection and education and numerous requests for this service have been received. Bacteriological tests are carried out in the following manner:

Procedure in a restaurant - Collect the following utensils meant to be served to the public:

1 teaspoon  
2 forks  
1 water glass and/or plastic glass  
1 soup spoon  
1 cup

Procedure in Beer Parlors and Beverage Rooms - 6 glasses





Procedure in Cocktail Bar - 6 glasses (sherberts, stemware, etc.)

A cotton-tipped applicator is lightly immersed into sterile bottle of water. With this applicator the entire rim of a utensil, e.g. cup, is swabbed. This swab is inserted into a bottle of Jamieson medium, and drawn and rotated from side to side on the surface of the medium. The mouth of the bottle is flamed and the screw cap replaced. One bottle of medium, undisturbed (unopened) is used for "control".

The above procedure is used for every article that is being swabbed. All bottles are placed in a special rack on a shelf at room temperature, on the premises, for a week. The results are read and tabulated as follows:

1 - 10 colonies - good
10 - 50 " - fair
over 50 " - poor

Condemnation of foodstuffs during the year of 23,165 lbs. was mainly due to damage by fire or damage due to water main breaks causing flooded basements. Many examinations of foodstuffs were made for the general public.

The personnel of the Food Division consists of one principal inspector, one Grade III Inspector, and six Grade II Inspectors, one of whom is utilized for the bacteriological testing of utensils in food and drink premises.

Close liaison was maintained by this Division with other food handling and beverage agencies of both the Federal and Provincial Governments.

Housing Division:

This division is charged with the responsibility of enforcing regulations and by-laws dealing with premises where people live. Such premises include rooming houses, dwellings, terraces, hotels, lodging houses and welfare institutions. The regulations and by-laws are quite comprehensive and cover such items as overcrowding, occupancy of cellars, dark low-ceilinged attics, presence of vermin or rodents, dampness, defective plumbing, insufficient plumbing fixtures, lack of hot water and insufficient heat. The primary purpose of the division is to improve housing conditions and prevent the spread of "blight" or "slum" conditions.

During the year the City Charter was amended giving Winnipeg the right to enact a by-law requiring that the exterior of buildings in residential areas be maintained in a suitable condition. Considerable thought and effort has been given to drafting a by-law that will accomplish the intent of amendment, be readily enforceable and will have public acceptance. The proposed by-law endorsed with discretion should be of tremendous help in preventing the spread of "blight" or "slum" conditions. The proposed by-law was still under study at the end of the year.

During the year the Burrows-Keewatin housing development was opened to receive families. At the same time the demolition of buildings in the Lord Selkirk Park Development area was started. Our inspectors worked in co-operation with other officials in the movement of families, the closing of dwelling units and other aspects of the Urban Renewal program.





Reference to the tabulated report of the division shows that while there were 88 houses placarded "Unsanitary" at the beginning of the year and 84 more were placarded during the year, 33 placards were removed after the premises had been renovated and 56 placarded premises demolished, leaving a total of 83 placarded premises at the end of the year.

There were 22 Police Court cases (17 convictions, 5 withdrawals) during the year. Even though the Heating By-law has been in force for several years, there were 207 complaints re lack of heat and prosecution was necessary in six instances.

Pursuant to the previously followed practice referrals in writing were made to other departments and agencies of noticed violations of by-laws or items of particular interest. This practice has resulted in unsatisfactory conditions being corrected sooner than otherwise would be the case.

The Regulations respecting rooming houses were amended in 1960 making them more comprehensive in scope and more readily enforceable. Since that time there has been a marked improvement in the sanitary conditions of many formerly sub-standard dwellings. This trend has been augmented by Urban Renewal and the provision of subsidized dwelling units for people in the lower income bracket.

#### Sanitation & Hygiene Division:

This division of the Inspections Branch is responsible for routine inspection of factories, workshops, offices and office buildings; hairdressing establishments; swimming pools; wading pools; schools; comfort stations; and premises that require an annual permit from the Medical Health Officer. In addition the Division reports on conditions in yards, sheds and areas; on temporary surface closets for workmen; on noises; on smoke; dust and fumes; on offensive odours; on infestations of rodents and insects, in properties other than residential premises or food establishments; and on the keeping of pigeons and poultry. An inspector from this Division collects samples for bacteriological analysis of the City's water supply and also collects samples for bacteriological analysis from swimming pools and wading pools.

During the latter part of June a portion of the Division's staff assisted in the instruction given to the personnel responsible for the proper operation of the City's wading pools. In July and August a public health inspector of the Division was allotted to assist in the supervision of the thirty-five wading pools and during these two months he ensured that at least once a week he obtained from each pool a sample of the pool water for bacteriological analysis. In all 291 samples were submitted for analysis. Each time a water sample was obtained the inspector ran an orthotolodine test for residual chlorine and also measured the pH. The wading pool operators have instructions to run residual tests and pH measurements at least every two hours.

Swimming pools in the City (exclusive of private pools) now number twenty-two. When these pools are in operation, weekly inspections are made and samples of the pool water for bacteriological analysis are obtained at each inspection.





The routine inspection of factories and workshops, of which there are approximately 3,272, was continued. At least two inspections per year are made of each factory or workshop.

**Milk Producers** ..... 2,370 290  
**Prospective** Hairdressing establishments received periodic inspection. 13  
 All 441 barber shops and beauty parlors must be approved as satisfactory before the annual permit of the Medical Health Officer is issued.

**CITY:**  
**Pastorizer** The Division continues its effort in the control of pigeons. During the year 2,572 pigeons were shot.

**Counter Process** ..... 120  
**Butter Plant** From April 6th to April 10th most of the inspectors attended the fourteenth in-service training institute held at the Royal Alexandra Hotel. This institute is sponsored by the Province of Manitoba Department of Health and is financed by a Federal Health Grant.

**Trailer Trucks Inspected** ..... 82  
**Vehicles -** The staff of the division includes one principal inspector, one grade III inspector and seven grade II inspectors. During the year the staff made 22,079 inspections and re-inspections, held 2,467 interviews, collected 3,271 water samples and dealt with 5,309 defects requiring 4,594 notices.

Milk Shoppers .....	16,252
Milk Retail .....	1,485
Milk Special .....	403
Cream .....	507
Ice Cream .....	713
Bottles for sterility .....	59
Water .....	85
	<u>19,506</u>

The reports of the various divisions follow :

**GENERAL:**

Calls .....	1,344
Complaints .....	27
Letters sent re: Premises .....	401
Letters sent re: Quality of Milk .....	17,197
Permits Issued .....	17
Permits Cancelled .....	19
Temperatures .....	69
Special Samples Tested .....	223
	<u>19,797</u>

BACTERIOLOGICAL LABORATORY

<b>WATER</b> .....	Presumptive Test .....	21
	Confirmed Test .....	4
	SPC/ML .....	20
<b>MILK &amp; CREAM</b> .....	Rossaurin Test .....	13,104
	PLC/ML .....	11,338
	Special Samples Tested .....	48
<b>DIAGNOSTIC</b> .....	Urinalysis .....	268
		<u>26,801</u>





DAIRY DIVISION

	<u>INSPECTIONS</u>	<u>CONTACTS</u>
<u>COUNTRY:</u>		
Milk Producers .....	2,570	290
Prospective Producers .....	42	13
Bulk Milk Tanks .....	2,570	
<u>CITY:</u>		
Pasteurization Plants .....	181	1,932
Ice Cream Manufacturers .....	186	
Counter Freezers .....	488	
Butter Plants .....	212	
Cheese Plants .....	162	
Tests of Equipment .....	45	
Milk Trucks Inspected .....	87	
Tanker Trucks Inspected .....	682	
Vehicles - Delivery .....	67	
	<u>7,292</u>	<u>2,235</u>
<u>SAMPLES:</u>		
Milk Shippers .....		16,252
Milk Retail .....		1,485
Milk Special .....		403
Cream .....		507
Ice Cream .....		715
Bottles for sterility .....		59
Water .....		85
		<u>19,506</u>
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Calls .....		1,344
Complaints .....		27
Letters sent re: Premises .....		401
Letters sent re: Quality of Milk .....		17,197
Permits Issued .....		17
Permits Cancelled .....		19
Temperatures .....		69
Special Samples Tested .....		223
		<u>19,297</u>
<u>BACTERIOLOGICAL LABORATORY</u>		
WATER .....	Presumptive Test .....	21
	Confirmed Test .....	4
	SPC/ML .....	20
MILK & CREAM .....	Resazurin Test .....	13,104
	PLC/ML .....	11,338
	Special Samples Tested .....	46
DIAGNOSTIC .....	Urinalysis .....	268
		<u>24,801</u>





FOOD DIVISION

	<u>Inspections</u>	<u>Contacts</u>	
Abattoirs .....	1	7	
Bakeries .....	307	104	
Banquet Halls .....	124	63	
Beer Parlors .....	264	154	
Breweries and Bottling Plants .....	21	25	
Candy Manufacturers .....	34	24	
Canteens and Hotel Kitchens .....	203	99	
Caterers .....	217	80	
Cereal Mills .....	42	21	
Cocktail Lounges .....	248	205	
Dance Halls .....	159	40	
Egg and Poultry Wholesale .....	29	3	
Fish-filleting, cold storage, etc. ....	70	45	
Food Processing .....	54	4	
Frozen Food Locker Plants .....	16	9	
Ice Houses and Depots .....	11	0	
Pickle and Vinegar factories .....	22	28	
Poultry Slaughterhouses .....	27	20	
Private Clubs .....	33	76	
Producers' markets, vegetable stalls ..	190	111	
Restaurants .....	5,596	1,467	
Retail Food Stores, grocer, butcher, etc.	3,743	995	
Sausage Manufacturers .....	178	192	
Wholesale - Groceries & Vegetables .....	147	35	
Fires in Food Premises .....	38	46	
Vehicles .....	41	4	
Vending Machines .....	383	28	
Special Calls .....	599	314	
	<u>12,797</u>	<u>4,199</u>	
Complaints .....	197		
Notices: Verbal .....	5,682	Samples: Water .....	15
Written .....	300	Food .....	1,015
Plans Examined .....	181	Plans Approved .....	79
<u>Bacteriological Tests - Restaurants &amp; Beer Parlors</u>			
No. of Premises .....	165	No. of Utensils .....	1,054
<u>Condemnations: (destroyed in City Incinerator)</u>			
Baked Goods .....	454½ lbs.	Fruit .....	203 lbs.
Candy .....	223 lbs.	Gravy .....	8 lbs.
Canned Goods .....	218 lbs.	Meat .....	4,325 lbs.
Cereals .....	102 lbs.	Nuts .....	32 lbs.
Coffee .....	27 lbs.	Pastries .....	31 lbs.
Eggs .....	1 lb.	Poultry .....	97 lbs.
Fish .....	16,329 ¾ lbs.	Soup .....	24 lbs.
Frozen Foods .....	98 lbs.	Vegetables .....	732 lbs.





HOUSING DIVISION

Placarded houses as at December 31, 1963: 82

Primary inspections of dwellings .....	552
Primary inspections of rooming houses and lodging houses .....	107
Primary inspections of apartment blocks, duplexes, dwellings connected to commercial premises, hotels, nursing homes, welfare institutions .....	244
Other inspections and re-inspections .....	11,589
	<u>12,492</u>

22 Police Court Cases

17 convictions, 3 withdrawals

Violations of the Health Act Regulations remedied during the year  
under orders from the Housing Division

First quarter: Owner failed to remove gas stoves from bedrooms

Houses placarded "Unsanitary" (including 1 apartment block) ..	84 buildings
Overcrowding remedied .....	84 families
Damp or dark cellars vacated .....	23 cellars
Dark, low-ceilinged attics vacated .....	13 attics
Additional windows constructed in previously dark attics ....	3 attics
Bed-bugs exterminated .....	181 buildings
Cockroaches exterminated .....	85 buildings
Silverfish, lice, mites, fleas, beetles, ants and sowbugs exterminated .....	77 buildings
Rats exterminated .....	30 properties
Mice exterminated .....	121 buildings
Defective cellars repaired .....	108 buildings
Leaky roofs repaired .....	101 buildings
Walls, ceilings, floors repaired .....	442 buildings
Defective eavestroughing repaired or renewed .....	168 buildings
Defective heating equipment repaired or renewed .....	166 buildings
Fly screens and/or storm sashes provided .....	330 buildings
Defective plumbing repaired .....	308 buildings
Additional plumbing installed 279 (or type of occupancy changed to conform with plumbing fixture requirements 46) ..	325 buildings
Hot water facilities provided or improved .....	137 buildings
Additional heat provided .....	203 buildings
Redecorated .....	488 buildings
Gas stoves removed from bedrooms .....	17 buildings
Floor coverings renewed .....	277 buildings
Additional electric light provided .....	81 buildings
Blinds provided for windows .....	34 buildings
Filthy or torn mattresses or bedding cleansed, repaired or renewed .....	126 buildings
Filthy or dilapidated furniture cleaned, repaired or re- newed .....	63 buildings
Floors, walls washed .....	298 buildings
Garbage nuisances corrected .....	238 properties
Miscellaneous defects remedied .....	144 buildings

Total referrals in writing





DIVISION OF SANITATION AND HYGIENE

Inspections

Placarded houses as at December 31, 1963: 88  
 During 1964, 84 additional houses were placarded "Unsanitary".  
 33 were renovated: 56 were demolished in that year.  
 Placarded houses as at December 31, 1964: 83

Notices issued:		Complaints attended to:	
Verbal warnings	6,417	Lack of heat	207
Formal notices	2,242	Other complaints	1,051

22 Police Court Cases

17 convictions, 5 withdrawals

Police Court Convictions

First quarter:	Owner failed to remove gas stoves from bedrooms, redecorate and install additional plumbing fixtures	\$ 18.30
	Insufficient heat (2)	26.60
	Owner failed to repair defective heating equipment	53.30
	Owner failed to repair defective windows, walls and floors (2)	66.60
	Owner failed to install a wash basin	28.30
Second quarter:	Insufficient heat (2)	52.50
	Owner failed to repair a leaky roof and defective plaster	reprimanded
Third quarter:	Owner failed to provide screens	23.30
	Occupant failed to clean up garbage and refuse	13.30
Fourth quarter:	Insufficient heat (2)	56.60
	Owner failed to provide hot water	reprimanded
	Owner failed to put plumbing system in proper working order	reprimanded
	Owner failed to install bath and wash basin	reprimanded
	<b>Total fines (including costs of Court)</b>	<b><u>\$338.80</u></b>

Violations of other by-laws discovered by our inspectors and referred in writing to the proper departments for their action:

Electrical inspectors	hazardous wiring	120 buildings
Fire inspectors	fire hazards	12 buildings
Building inspectors	other safety hazards	80 buildings
Zoning inspectors	zoning violations	4 buildings
Plumbing inspectors	plumbing permit required	4 buildings
Children's Aid Society		2 families
Public Welfare Department		3 families
	<b>Total referrals in writing</b>	<b><u>225</u></b>





DIVISION OF SANITATION AND HYGIENE

		<u>Inspections</u>
OFFICES, WORKSHOPS AND FACTORIES .....		7,357
HAIRDRESSING ESTABLISHMENTS .....		663
<u>LICENSED PREMISES:</u>		
Billiard Parlors .....	170	
Bowling Alleys .....	39	
Hatcheries and Pet Shops .....	23	
Junk Yards .....	139	
Laundries .....	142	
Massage Parlors .....	85	
Poultry Keepers .....	9	
Second-hand Stores .....	179	
Skating Rinks .....	9	
Soap Manufacturing .....	2	
Tanneries and Hide Curing .....	7	
Undertaking Parlors .....	28	
Total Licensed Premises		<u>832</u>
<u>OTHER INSPECTIONS:</u>		
Air Pollution .....	95	
Comfort Stations .....	205	
Garbage and Refuse .....	3,024	
Lanes, Streets and Lots .....	6,239	
Outbuildings .....	172	
Schools .....	13	
Swimming Pools .....	772	
Wading Pools .....	343	
Wells .....	90	
Workmen's Closets .....	1,856	
Miscellaneous .....	418	
Total Other Inspections		<u>13,227</u>
<u>TOTAL NUMBER OF INSPECTIONS</u>		<u>22,079</u>
INTERVIEWS .....	2,467	
WATER SAMPLES .....	3,271	
DELIVERIES .....	1,606	
COMPLAINTS .....	1,089	
PROSECUTIONS .....	3	
FINES .....	\$64.80	
<u>NOTICES:</u>		
Verbal .....		4,122
Letter .....		147
Informal .....		258
Specification .....		13
Mandatory .....		54
Total Notices		<u>4,594</u>
Plans Approved .....		23





## CITY HEALTH DEPARTMENT

DEFECTS DISCOVERED AND DEALT WITH:

<u>Summary of Expenditures, 1964</u>		
Cleanliness, Lack of .....		264
Common Drinking Cups .....		91
Covered Waste Receptacles .....		307
Dampness .....		5
Drinking Facilities (Water) .....		4
Garbage and Refuse .....		1,325
Gas Installations .....		29
Heating: Lack of .....		46
Furnaces & Equipment .....		6
Lanes, Streets and Lots .....		1,596
Lighting: Natural or Artificial .....		21
Noises .....		69
Overcrowding .....	Other	1
Plumbing: Lack of .....	expenses	5
Defective .....		48
Illegally Installed .....		5
Insufficient .....		10
Dirty Fixtures .....		192
Legible Signs, Lack of .....		98
No Water Supply .....		8
No Hot Water .....		6
Privacy, Lack of .....		9
Pigeons and Poultry, Illegal .....		77
Rest Rooms: Dirty .....		13
Furnishings .....		3
Rodents: ats .....		76
Mice, other .....		8
Smoke, Dust, Fumes, Odors .....		346
Soap and Towels, Lack of .....		72
Stagnant Water .....		4
Structural Defects: Roofs and Ceilings .....		14
Eavestroughing & R.W.L. ....		2
Cellars, floors and walls .....		14
Storm doors and windows .....		2
Swimming Pools, Wading Pools .....		54
Ventilation .....		61
Vermin .....		28
Workmen's Closets .....		175
Miscellaneous .....		<u>215</u>
Total Defects and Irregularities	4,320.00	<u>5,309</u>
Dental Clinic at General Hospital	8,012.00	1.03
Social Allowances Act	87,042.00	11.52
City of Winnipeg	495,660.00	65.43
Total	<u>\$755,035.00</u>	<u>100.03</u>

Cost per capita

\$2.97





CITY HEALTH DEPARTMENT

Summary of Expenditures, 1964

100	Personal Services	\$595,928.00
200	Outside Services	77,311.00
300	Materials, Supplies & Repairs	60,532.00
400	Equipment, Additions and Replacements	2,221.00
600	Other Expenses	794.00
800	Automobile Expenses	<u>22,269.00</u>
	Total	<u>\$759,055.00</u>

	<u>Total</u>	<u>Salaries</u>	<u>Other Expenses</u>
314-010 Administration and Statistics	\$ 36,813.00	\$ 32,959.00	\$ 3,854.00
314-011 Communicable and Other Diseases	83,897.00	28,287.00	55,610.00
314-012 Inspection Services & Laboratory	136,185.00	122,350.00	13,835.00
314-013 Child Medical Services	34,346.00	4,800.00	29,546.00
314-014 Child Dental Services	95,547.00	57,948.00	37,599.00
314-015 Nursing Services	265,023.00	251,838.00	13,185.00
314-016 Health Services Extension	<u>107,244.00</u>	<u>97,746.00</u>	<u>9,498.00</u>
Total	<u>\$759,055.00</u>	<u>\$595,928.00</u>	<u>\$163,127.00</u>

Sources of Revenue

National Health Grants	\$ 72,756.00	9.6%
Provincial Government Grant	90,265.00	11.9%
Milk Control Board Grant	4,320.00	0.6%
Dental Clinic at General Hospital	8,012.00	1.0%
Social Allowances Act	87,042.00	11.5%
City of Winnipeg	<u>496,660.00</u>	<u>65.4%</u>
Total	<u>\$759,055.00</u>	<u>100.0%</u>

Cost per capita                      \$2.97







