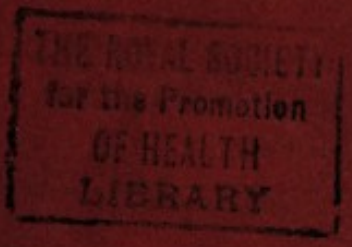
Annual report of the Medical Health Officer / City of Winnipeg.



CITY OF WINNIPEG
HEALTH DEPARTMENT

ANNUAL REPORT 1967

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

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

P. CONSTANTINIDIS, M.D., C.R.C.P.(C.)
DEPUTY MEDICAL HEALTH OFFICER

HEALTH DEPARTMENT
ADMINISTRATION BUILDING,
CIVIC CENTRE,
WINNIPEG 2, MANITOBA

OUR FILE NO. _____

YOUR FILE NO. _____

City of Winnipeg

June 27, 1968.

Chairman and Members,
Committee on Public Health and Welfare.

Madam and Gentlemen,

I have the honour to present the Annual Report of the City Health Department for the year 1967. The year was essentially a healthy one for the citizens with no major illness of any proportion.

The birth rate declined to 17.9 per thousand population, which is the lowest recorded since 1944. The infant mortality rate increased from 17.6 to 21.1 per thousand, and although this is below the Canadian average, it is unfortunate. In the main, this increase was due to the increase in deaths from immaturity. The illegitimate rate remained the same as for the previous year, being 16.3% of the total births. As was the case last year, it would appear that this high percentage of illegitimate births is due to the fact that unwed mothers come to Winnipeg to be delivered and give a Winnipeg address as their home. Cancer of the lung continued as the leading cause of cancerous deaths in males, and cancer of the breast the leading cause of cancerous deaths in females. This is regrettable as cancer in both these sites is largely preventable.

The incidence of infectious hepatitis decreased with only fifty-two cases being recorded, and is the least number of cases to occur for many years. In this regard we are fortunate as this disease has increased in incidence rather than decreased in many other parts of the continent. Sixty new cases of active tuberculosis were discovered compared to 67 in the previous year. There were 12 tuberculosis deaths with the majority of these occurring in the older age group.

Over 27,000 inoculations were given for the prevention of the common communicable diseases. Fourteen thousand dental appointments were kept in the School Dental Services. Eighteen thousand tuberculin tests were carried out in conjunction with the Manitoba Sanatorium Board in our tuberculosis control program. More than 90,000 pupils were referred or sought advice from the Public Health Nurses during the year. Over 44,000 pupils in the School System were tested for myopia, and 8,900 pupils were given audiometric tests. The attendance at the Expectant Mothers' Classes again increased.

The Pan-American Games provided an extra workload for our Inspections Branch who were active in the supervision of housing accommodation and the preparation and distribution of food products for the many thousands of athletes and tourists. We were indeed fortunate to survive the onslaught of so many individuals from all parts of the world without any serious health problem.

The Minimum Standards of Housing Repair By-law was again enforced to the maximum of our ability and has been very effective in the prevention of housing blight. Although the City Council approved a recommendation that this By-law apply to privately owned and occupied dwellings as well as rented accommodation, the necessary legislation to amend the City Charter was not approved by the Manitoba Legislature.

One problem with which we were confronted, which is common to other parts of Canada, is the number of pupils, particularly in the Junior High Schools, who are inhaling glue and nail polish remover. No ready solution to this problem is in the offing at the moment.

It is with regret that the sudden death of Mr. George Kelly, who had been with the Department for over forty years, is recorded.

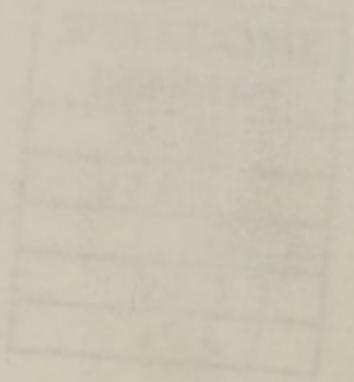
Details of the work performed by the various Divisions of the Department during the year are contained in the following pages. The support of the Committee on Public Health as well as that of other elected representatives of the City Council has been appreciated by myself and all members of the staff. 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.

Respectfully submitted,

R. G. Cadham.

Medical Health Officer.

RGC:lv



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C O N T E N T S

COMMITTEE ON PUBLIC HEALTH AND WELFARE

Alderman P. Parashin - Chairman
Alderman E.J. Enns - Vice Chairman
Alderman M.H. Danzker
Alderman E.I. Tennant
Alderman L. Stinson
Alderman I. Wolch
His Worship Mayor S. Juba (ex officio)

STAFF

Medical Health Officer	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.
Chief Health Inspector	R.C. Morrow, D.V.M., C.P.H.I.(C).
Secretary and Statistician	R.D. Scrymgeour

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 252,000 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 Service 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

The City 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 13.1 persons per acre of land.

For statistical purposes the population for 1967 is 251,995, a decrease of 1,902 from 253,897 in 1966 as determined by the Assessment Commissioner. In 1967 the natural increase (live births less deaths) was 1,963.

VITAL STATISTICS AS REGISTERED IN WINNIPEG, 1967.

(including Non-Residents)

	1967	1966
Live Births	6,143	7,558
Deaths	2,907	3,229
Stillbirths	99	116

Summary of Vital Statistics, Residents, 1967

		1967	1966
Live Births	Male	2,289	2,384
	Female	2,210	2,220
	Undetermined	-	-
	Total	4,499	4,604
Rate per 1,000 population		17.9	18.1
Deaths	Male	1,469	1,518
	Female	1,067	1,148
	Undetermined	-	-
	Total	2,536	2,666
Rate per 1,000 population		10.1	10.5
Natural increase		1,963	1,938
Infant Deaths (- 1 year)	Male	56	53
	Female	39	28
	Undetermined	-	-
	Total	95	81
Rate per 1,000 Live Births		21.1	17.6
Stillbirths	Male	32	35
	Female	29	37
	Undetermined	1	-
	Total	62	72
Rate per 1,000 Live Births		13.8	15.6
Maternal Deaths		-	-
Rate per 1,000 Live Births		-	-

(Population - December 31, 1967 = 251,995)

VITAL STATISTICS AS RECISTERED IN WINNIPEG, 1967.

(Including Non-Residents)

	1967	1966
Live Births	6,143	7,558
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Summary of Vital Statistics, Residents, 1967

		1967	1966
Live Births	Male	2,289	2,784
	Female	2,210	2,220
	Undetermined	-	-
	Total	4,499	4,004
	Rate per 1,000 population	17.9	18.1
Deaths	Male	1,469	1,518
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	Total	2,536	2,666
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	Total	62	72
	Rate per 1,000 Live Births	13.8	15.6
Maternal Deaths		-	-
	Rate per 1,000 Live Births	-	-

(Population - December 31, 1967 - 251,995)

LIVE BIRTHS

A total of 4,499 live births occurred to Winnipeg residents in 1967, giving a rate of 17.9 per 1,000 population compared with a rate of 18.1 recorded in 1966. This is a decrease of 1.1% from 1966 and is the lowest rate recorded for over two decades. In 1967 there were 1,036 males born for every 1,000 females. First children accounted for 42.6% of all births, second children 26.9% and third children 13.0%. Children born to mothers in the 15 year age group, 20 - 34 years, numbered 3,429 or 76.1% of all births.

INFANT MORTALITY

There were 95 deaths of infants under one year of age giving a rate of 21.1 per 1,000 live births. Deaths of infants during the first week accounted for 65% with 52% of these occurring during the first day.

Immaturity 16, congenital malformations 13, accidental causes 11, post natal asphyxia 8, birth injury 7, were principal causes accounting for 58% of infant deaths. A detailed list of the causes of infant deaths in on page 21 of this report.

PERINATAL MORTALITY

In 1967 there were 62 stillbirths and 62 deaths of infants under one week for a total of 124 which represents a perinatal death rate of 27.6 per 1,000 total births. Comparative rates for 1966, 1965 and 1964 were 24.8, 26.5 amd 30.8 respectively.

MATERNAL MORTALITY

For the fourth successive year there were no deaths recorded from conditions pertaining to childbearing for Winnipeg residents.

GENERAL MORTALITY

There were 2,536 deaths of Winnipeg residents recorded during the year giving a rate of 10.1 per 1,000 population.

As has been the case for many years, diseases of the heart have been the leading cause of death with a total of 865 being recorded in 1967. The disease is at a minimum up to age 44 but increases each year thereafter to a maximum in old age with over 78% of all deaths from heart disease occurring to people 65 years of age and over. Arteriosclerotic and degenerative heart disease is the most predominant type accounting for 784 deaths.

Malignant neoplasms was the second leading cause of death recorded accounting for 524 deaths or 20.7% of all deaths. There were 285 male and 239 female deaths with over 95% occurring after age 44. Cancer of the Trachea, Bronchus and lung continues to be the most common site among males and accounts for over one quarter of all deaths of males from Cancer. Cancer of the breast is the most common site among females with over half of the deaths occurring under 65 years of age.

LIVE BIRTHS

A total of 4,699 live births occurred to Winnipeg residents in 1967, giving a rate of 17.9 per 1,000 population compared with a rate of 18.1 recorded in 1966. This is a decrease of 1.1% from 1956 and is the lowest rate recorded for over two decades. In 1967 there were 1,036 males born for every 1,000 females. First children accounted for 42.6% of all births, second children 26.9% and third children 13.0%. Children born to mothers in the 15 year age group, 20 - 24 years, numbered 3,629 or 76.1% of all births.

INFANT MORTALITY

There were 95 deaths of infants under one year of age giving a rate of 21.1 per 1,000 live births. Deaths of infants during the first week accounted for 65% with 32% of these occurring during the first day.

Immaturity 16, congenital malformations 13, accidental causes 11, post natal asphyxia 8, birth injury 7, were principal causes accounting for 58% of infant deaths. A detailed list of the causes of infant deaths is on page 21 of this report.

PERINATAL MORTALITY

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MATERNAL MORTALITY

For the fourth successive year there were no deaths recorded from conditions pertaining to childbearing for Winnipeg residents.

GENERAL MORTALITY

There were 2,336 deaths of Winnipeg residents recorded during the year giving a rate of 10.1 per 1,000 population.

As has been the case for many years, diseases of the heart have been the leading cause of death with a total of 865 being recorded in 1967. The disease is at a minimum up to age 44 but increases each year thereafter to a maximum in old age with over 78% of all deaths from heart disease occurring to people 65 years of age and over. Arteriosclerotic and degenerative heart disease is the most predominant type accounting for 734 deaths.

Malignant neoplasms was the second leading cause of death recorded accounting for 524 deaths or 20.7% of all deaths. There were 285 male and 239 female deaths with over 95% occurring after age 44. Cancer of the Trachea, Bronchus and lung continues to be the most common site among males and accounts for over one quarter of all deaths of males from Cancer. Cancer of the breast is the most common site among females with over half of the deaths occurring under 65 years of age.

Vascular lesions affecting the central nervous system was the third leading cause taking 263 lives or 10.4% of all deaths. The majority of these deaths occur to people over 60 years of age.

Accidents, poisonings and violent deaths to 177 lives or 7.0% of all deaths. Motor vehicle accidents caused 49 deaths with almost half of them occurring to people under 30 years of age. Almost twice as many males as females died as a result of motor vehicle accidents. Accidental falls were the second major cause of death by accidents accounting for 41 deaths. Approximately two thirds of these deaths occurred to people over 64 years of age. Suicides accounted for 28 deaths with three times as many males as females committing suicide.

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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 machines.

LIVE BIRTHS & INFANT DEATHS 1947 - 1967

YEAR	NUMBER OF BIRTHS	RATE PER 1,000 POPULATION	INFANT DEATHS	RATE PER 1,000 LIVE BIRTHS
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
1965	5,222	20.5	103	19.7
1966	4,604	18.1	81	17.6
1967	4,499	17.9	95	21.1

BIRTHS

ORDER OF BIRTH BY AGE OF MOTHER - 1967
(Percentage of Total compared with 1966)

	10-14	15-19	20-24	25-29	30-34	35-39	40+	UNKNOWN	TOTAL	1967 % of TOTAL	1966 % of TOTAL
1st	7	552	935	318	73	30	5	-	1,920	42.6	37.5
2nd	-	116	551	376	117	39	11	1	1,211	26.9	26.0
3rd	-	14	171	213	120	47	16	2	583	13.0	15.8
4th	-	6	73	120	94	59	15	1	368	8.2	9.0
5th	-	-	15	52	55	39	12	-	173	3.9	4.8
6th & Over	-	-	6	65	68	63	34	-	236	5.2	6.8
Unknown	-	-	4	1	2	1	-	-	8	0.2	0.1
Total	7	688	1,755	1,145	529	278	93	4	4,499	100.0	100.0
Percent	0.2	15.3	39.0	25.4	11.7	6.2	2.1	0.1			

LIVE BIRTHS & INFANT DEATHS 1942 - 1967

YEAR	NUMBER OF BIRTHS	RATE PER 1,000 POPULATION	INFANT DEATHS	RATE PER 1,000 LIVE BIRTHS
1967	5,332	23.6	193	36.2
1968	4,729	20.4	153	32.0
1969	4,968	21.2	137	27.6
1950	5,064	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	140	29.7
1958	5,892	23.1	155	25.3
1959	6,023	23.4	154	25.6
1960	6,281	24.4	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
1965	5,222	20.5	103	19.7
1966	4,804	18.1	81	17.6
1967	4,499	17.9	95	21.1

BIRTHS

ORDER OF BIRTH BY AGE OF MOTHER - 1967
(Percentage of Total compared with 1966)

	10-14	15-19	20-24	25-29	30-34	35 39	40+	UN-KNOWN	TOTAL	1967 % of TOTAL	1966 % of TOTAL
1st	7	552	935	318	73	30	5	-	1,920	42.6	37.5
2nd	-	116	551	376	117	39	11	1	1,211	26.9	26.0
3rd	-	14	171	213	120	47	16	2	583	13.0	15.8
4th	-	6	73	120	94	59	15	1	368	8.2	9.0
5th	-	-	15	52	55	39	12	-	173	3.9	4.8
6th & Over	-	-	6	65	68	63	34	-	236	5.2	6.8
Unknown	-	-	4	1	2	1	-	-	8	0.2	0.1
Total	7	688	1,755	1,145	529	278	93	4	4,499	100.0	100.0
Percent	0.2	15.3	39.0	25.4	11.7	6.2	2.1	0.1			

Table Showing Number of Births, Deaths, Infant Deaths and Maternal Mortality With Rates for Winnipeg for Years 1911-1967.

YEAR ** *	BIRTHS	RATE PER 1,000 pop.	DEATHS	RATE PER 1,000 pop.	INFANT DEATHS	RATE PER 1,000 LIVE BIRTHS	MATERNAL MORTALITY	RATE PER 1,000 LIVE BIRTHS
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
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	-	-
1965	5,222	20.5	2,681	10.5	103	19.7	-	-
1966	4,604	18.1	2,666	10.5	81	17.6	-	-
1967	4,499	17.9	2,536	10.1	95	21.1	-	-

Table Showing Number of Deaths and Rate per 100,000 Population From Certain Diseases for Winnipeg for the Years 1911-1967.

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
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
1965	6	2	-	-	933	366	560	219
1966	4	2	1	0.4	938	369	542	213
1967	13	5	1	0.4	865	343	524	208

* 1911-1930 include non-residents; 1931-1967 include residents only.

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

*** Measles, Scarlet Fever, Diptheria, Whooping Cough.

Table Showing Number of Births, Deaths, Infant Deaths and Maternal Mortality With Rates for Winnipeg for Years 1911-1957.

YEAR *	BIRTHS	RATE per 1,000 Pop.	DEATHS	RATE per 1,000 Pop.	INFANT DEATHS	RATE per 1,000 Live Births	MATERNAL MORTALITY	RATE per 1,000 Live Births
1911-15	5,369	29	2,022	11.1	813	152	35	6.5
1916-20	5,695	30	2,172	11.5	590	104	35	6.9
1921-25	5,327	27	1,977	8.5	415	77	25	4.7
1926-30	6,527	22	1,727	8.7	277	61	26	5.7
1931-35	3,964	18	1,512	6.9	170	43	20	5.1
1936-40	3,783	17	1,697	7.7	138	36	17	4.5
1941-45	4,037	18	1,985	8.1	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	160	26.9	4	0.7
1956-60	6,034	23.7	2,595	10.2	158	26.2	2	0.4
1961	6,105	23.8	2,566	10.0	137	22.4	3	0.5
1962	5,934	23.2	2,564	10.0	135	22.7	2	0.3
1963	5,859	22.8	2,765	10.7	123	21.0	2	0.3
1964	5,343	21.7	2,606	10.2	128	23.1	-	-
1965	5,222	20.5	2,681	10.5	103	19.7	-	-
1966	6,600	19.1	2,666	10.5	81	17.6	-	-
1967	6,499	17.9	2,536	10.1	95	21.1	-	-

Table Showing Number of Deaths and Rate per 100,000 Population From Certain Diseases for Winnipeg for the Years 1911-1957.

YEAR *	TB	RATE per 100,000 Pop.	VENEREAL DISEASES	RATE per 100,000 Pop.	INFANTILE DIARRHOEA	RATE per 100,000 Pop.	CANCER	RATE per 100,000 Pop.
1911-15	171	97	147	78	141	75	87	48
1916-20	159	72	193	72	158	73	135	72
1921-25	94	49	65	33	174	89	178	90
1926-30	86	42	37	18	237	115	209	100
1931-35	65	29	15	7	308	141	168	123
1936-40	52	24	11	5	430	205	243	129
1941-45	51	22	9	4	613	290	324	143
1946-50	34	14	6	2	676	291	333	143
1951-55	20	8	1	0.4	804	334	412	149
1956-60	17	6.5	1	0.5	552	324	466	183
1961	10	4	1	0.3	917	357	469	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
1965	6	2	-	-	953	366	540	219
1966	4	2	1	0.4	938	369	542	213
1967	13	5	1	0.4	865	343	524	208

* 1911-1930 include non-residents; 1931-1957 include residents only.

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

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

CHIEF CAUSES OF DEATH 1967 RESIDENTS ONLY
ALL AGES

No.	CAUSE OF DEATH	1967 Number of Deaths	1967 % of Total Deaths	1966 Number of Deaths	1966 % of Total Deaths
1	Diseases of the Heart	865	34.1	938	35.2
2	Malignant Neoplasms	524	20.7	542	20.3
3	Vascular Lesions affecting Central Nervous System	263	10.4	290	10.9
4	Accidents, Poisoning and Violent Deaths	177	7.0	174	6.5
5	Pneumonia	119	4.7	141	5.3
6	Diseases of Arteries	106	4.2	102	3.8
7	Malformations and Diseases of Early Infancy	74	2.9	66	2.5
8	Cirrhosis of Liver	37	1.5	36	1.3
9	Diabetes Mellitus	29	1.1	32	1.2
10	Intestinal Obstruction & Hernia	25	1.0	18	0.7
11	Ulcer of Stomach & Duodenum	20	0.8	12	0.4
12	Bronchitis	16	0.6	20	0.8
13	Infection of Kidney	14	0.5	16	0.6
14	Nephritis and Nephrosis	11	0.4	16	0.6
15	Hypertension without mention of Heart	10	0.4	7	0.3
	All other causes	246	9.7	256	9.6
	TOTAL	2,536	100.0	2,666	100.0

Causes of Death

The following pages give particulars of the number of deaths of Winnipeg residents for the year 1967 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 1967 RESIDENTS ONLY
ALL AGES

No.	CAUSE OF DEATH	1967 Number of Deaths	1967 % of Total Deaths	1966 Number of Deaths	1966 % of Total Deaths
1	Diseases of the Heart	865	34.1	938	15.2
2	Malignant Neoplasms	526	20.7	542	20.3
3	Vascular Lesions affecting Central Nervous System	263	10.4	290	10.9
4	Accidents, Poisoning and Violent Deaths	177	7.0	174	6.5
5	Pneumonia	119	4.7	141	5.3
6	Diseases of Arteries	106	4.2	102	3.8
7	Malformations and Diseases of Early Infancy	74	2.9	66	2.5
8	Cirrhosis of Liver	37	1.5	36	1.3
9	Diabetes Mellitus	29	1.1	32	1.2
10	Intestinal Obstruction & Hernia	25	1.0	18	0.7
11	Ulcer of Stomach & Duodenum	20	0.8	12	0.4
12	Bronchitis	16	0.6	20	0.8
13	Infection of Kidney	14	0.5	16	0.6
14	Nephritis and Nephrosis	11	0.4	16	0.6
15	Hypertension without mention of Heart	10	0.4	7	0.3
	All other causes	226	9.7	258	9.6
	TOTAL	2,536	100.0	2,666	100.0

Causes of Death

The following pages give particulars of the number of deaths of Winnipeg residents for the year 1967 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 CAUSE OF DEATH OF WINNIPEG RESIDENTS IN CERTAIN AGE GROUPS 1967

No.	Cause of Death	Deaths in age group Number	Deaths in age group Percent	Deaths at all ages Number	Deaths at all ages Percent
	0 - 1 Year				
1	Ill defined diseases peculiar to early infancy	19	20.0	19	100.0
2	Immaturity	16	16.8	16	100.0
3	Congenital Malformations	13	13.7	22	59.1
4	Accidental Causes	11	11.6	177	6.2
5	Postnatal Asphyxia & Atelectasis	8	8.4	8	100.0
6	Birth Injuries	7	7.4	7	100.0
7	Diseases of the Nervous System	4	4.2	296	1.4
8	Intestinal Obstruction and Hernia	3	3.1	25	12.0
9	Infections of the newborn	1	1.1	1	100.0
	All other causes	13	13.7	1,965	0.7
	Total	95	100.0	2,536	3.7
	1 - 4 Years				
1*	Accidental Causes	7	38.8	177	3.9
2	Congenital Malformations	6	33.3	22	27.3
3	Malignant Neoplasms	2	11.1	524	0.4
4	Mental Deficiency	1	5.6	2	50.0
5	Diseases of the Nervous System	1	5.6	296	0.3
	All other causes	1	5.6	1,515	-
	Total	18	100.0	2,536	0.7
	* Motor Vehicle - 2 Drowning - 1 Fire & Explosion - 2				
	5 - 14 Years				
1*	Accidental causes	7	53.8	177	4.0
2	Malignant Neoplasms	3	23.1	524	0.6
3	Measles	1	7.7	1	100.0
	All other causes	2	15.4	1,834	-
	Total	13	100.0	2,536	0.5
	* Motor Vehicle - 5 Drowning - 2				
	15 - 24 Years				
1*	Accidental causes	28	77.8	177	15.8
2	Malignant Neoplasms	3	8.3	524	0.6
3	Late effects of Poliomyelitis	2	5.6	3	66.7
4	Intestinal Obstruction and Hernia	1	2.7	25	4.0
	All other causes	2	5.6	1,807	-
	Total	36	100.0	2,536	1.4
	* Motor Vehicle - 15 Suicide - 3				
	25 - 44 Years				
1	Malignant Neoplasms	18	16.7	524	3.4
2	Motor Vehicle Accidents	14	13.0	49	28.6
3	General Accident Causes	13	12.0	50	26.0
4	Diseases of the Heart	12	11.1	865	1.4
5	Suicide	9	8.3	28	32.1
6	Vascular lesions affecting Central Nervous System	8	7.4	263	3.0
7	Cirrhosis of the liver	6	5.6	37	16.2
8	Accidental Falls	4	3.7	41	9.8
9	Accidental Poisoning	3	2.8	9	33.3
	All other causes	21	19.4	670	3.1
	Total	108	100.0	2,536	4.3

CHIEF CAUSES OF DEATH OF WINNIPEG RESIDENTS IN CERTAIN AGE GROUPS 1967

No.	Cause of Death	Deaths in age group Number	Deaths in age group Percent	Deaths at all ages Number	Deaths at all ages Percent
	45 - 64 Years				
1	Diseases of the heart	171	33.8	865	19.8
2	Malignant Neoplasms	155	30.7	524	29.6
3	Vascular lesions affecting Central Nervous System	33	6.5	263	12.5
4	General Accidental Causes	18	3.6	100	18.0
5	Pneumonia all forms	11	2.2	119	9.2
6	Diseases of the Arteries	10	2.0	106	9.4
7	Motor Vehicle Accidents	10	2.0	49	20.4
8	Suicide	8	1.6	28	28.6
9	Diabetes mellitus	5	1.0	29	17.2
	All other causes	84	16.6	453	18.5
	Total	505	100.0	2,536	19.9
	65 - 84 Years				
1	Diseases of the Heart	532	39.1	865	61.5
2	Malignant Neoplasms	300	22.0	524	57.3
3	Vascular lesions affecting Central Nervous System	150	11.0	263	57.0
4	Diseases of the Arteries	63	4.6	106	59.4
5	Pneumonia all forms	60	4.4	119	50.4
6	Diseases of Circulatory System	33	2.4	49	67.3
7	Diabetes mellitus	21	1.6	29	72.4
8	Accidental Falls	14	1.0	41	34.1
9	Cirrhosis of the Liver	13	1.0	37	35.1
	All other causes	176	12.9	603	2.9
	Total	1,362	100.0	2,536	53.7
	85 Years and Over				
1	Diseases of the Heart	148	37.1	865	17.1
2	Vascular lesions affecting Central Nervous System	69	17.3	263	26.2
3	Malignant Neoplasms	43	10.8	524	8.2
4	Pneumonia all forms	42	10.5	119	35.3
5	Diseases of the Arteries	31	7.8	106	29.2
6	Accidental Falls	13	3.2	41	31.7
7	General Accidental Causes	8	2.0	136	5.9
8	Bronchitis	4	1.0	16	25.0
9	Hypertension without mention of heart	4	1.0	10	40.0
	All other causes	37	9.3	456	8.1
	Total	399	100.0	2,536	15.7

Note: In the above tabulations, some items such as measles and late effects of poliomyelitis are included not because of their frequency of occurrence, which is negligible, but because of the interest in such causes of death.

UNDER CAUSES OF DEATH OF WINNIPEG RESIDENTS IN CERTAIN AGE GROUPS 1947

Cause of Death	Deaths in age group		Deaths at all ages	
	Number	Percent	Number	Percent
45 - 64 Years				
Diseases of the Heart	171	33.8	865	19.8
Malignant Neoplasms	155	30.7	724	21.4
Vascular lesions affecting Central Nervous System	32	6.3	263	12.2
General Accidental Causes	19	3.8	100	19.0
Pneumonia all forms	11	2.2	119	9.2
Diseases of the Arteries	10	2.0	106	9.4
Motor Vehicle Accidents	10	2.0	49	20.4
Suicide	9	1.8	28	28.6
Diabetes mellitus	5	1.0	29	17.2
All other causes	84	16.6	453	18.5
Total	505	100.0	2,556	19.9
65 - 84 Years				
Diseases of the Heart	517	39.1	845	61.5
Malignant Neoplasms	300	22.0	724	57.3
Vascular lesions affecting Central Nervous System	150	11.0	263	57.0
Diseases of the Arteries	67	4.9	106	59.4
Pneumonia all forms	60	4.4	119	50.4
Diseases of Circulatory System	33	2.4	49	67.3
Diabetes mellitus	21	1.6	29	72.4
Accidental Falls	14	1.0	41	34.1
Cirrhosis of the Liver	11	.8	37	29.7
All other causes	170	12.9	803	21.2
Total	1,362	100.0	2,556	53.3
85 Years and Over				
Diseases of the Heart	148	37.1	865	17.1
Vascular lesions affecting Central Nervous System	69	17.3	263	26.2
Malignant Neoplasms	43	10.8	724	5.9
Pneumonia all forms	42	10.5	119	35.3
Diseases of the Arteries	31	7.8	106	29.2
Accidental Falls	13	3.3	41	31.7
General Accidental Causes	8	2.0	136	5.9
Bronchitis	4	1.0	16	25.0
Hypertension without mention of heart	4	1.0	10	40.0
All other causes	37	9.3	453	8.1
Total	399	100.0	2,556	15.7

Note: In the above tabulations, some items such as measles and late effects of poliomyelitis are included not because of their frequency of occurrence, which is negligible, but because of the interest in such causes of death.

DEATHS OF WINNIPEG RESIDENTS BY CAUSE, AGE AND SEX - 1967

Int'l List No.	Cause of Death Intermediate List (7th Rev.)	Sex	Total	AGE 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. +
	All Causes	T	2,536	67	28	18	8	5	18	18	10	20	34	44	55	92	161	197	261	332	390	379	274	125
		M	1,469	41	15	4	3	4	13	16	7	15	22	29	35	49	92	130	158	201	230	210	137	58
		F	1,067	26	13	14	5	1	5	2	3	5	12	15	20	43	69	67	103	131	160	169	137	67
I	Infective & parasitic diseases	T	20	-	1	-	1	-	1	1	-	-	2	1	-	2	2	1	2	2	-	3	1	-
			16	-	1	-	-	-	1	1	-	-	2	1	-	-	2	1	2	2	-	2	1	-
			4	-	-	-	1	-	-	-	-	-	-	-	-	2	-	-	-	-	-	1	-	-
A1	Tuberculosis of Respiratory System	M	9	-	-	-	-	-	-	-	-	-	1	1	-	-	-	1	2	2	-	2	-	-
		F	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
	A. Active	M	9	-	-	-	-	-	-	-	-	-	1	1	-	-	-	1	2	2	-	2	-	-
		F	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
	B. Inactive	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A5	Tuberculosis, all other forms	M	3	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	1	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A20	Septicaemia & Pyaemia	M	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-
A30	Late effects of Poliomyelitis	M	3	-	-	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A32	Measles	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
II	Neoplasms	T	530	-	-	2	2	2	1	2	1	2	3	12	17	36	47	58	67	92	80	62	34	10
		M	287	-	-	-	-	2	-	1	1	1	2	6	11	16	24	32	29	50	45	40	20	7
		F	243	-	-	2	2	-	1	1	-	1	1	6	6	20	23	26	38	42	35	22	14	3
A44-A59	All Malignant Neoplasms (	M	285	-	-	-	-	2	-	1	1	1	2	6	11	16	23	31	29	50	45	40	20	7)
	(	F	239	-	-	2	1	-	1	1	-	1	1	6	6	20	23	25	38	42	34	22	13	3)

Int'l List No.	Cause of Death / Intermediate List (7th Rev.)	Sex	Total	AGE																			
				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. +
II cont.																							
A44	Buccal Cavity & Pharynx	M	5	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	2	1	-
		F	4	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	2	-	-	-
A45	Oesophagus	M	6	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	2	1	1	-
		F	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	1	-	-
A46	Stomach	M	26	-	-	-	-	-	-	-	-	-	-	1	1	1	2	2	2	7	4	5	1	-
		F	18	-	-	-	-	-	-	-	-	-	-	1	1	2	1	-	2	2	3	4	2	-
A47	Intestine except rectum	M	34	-	-	-	-	-	-	-	-	-	-	-	-	1	4	6	1	5	9	3	4	1
		F	35	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	6	8	9	5	3	-
A48	Rectum	M	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	1	3	-	-	1
		F	8	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	1	1	2	-	-	-
A49	Larynx	M	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
		F	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
A50	Trachea, Bronchus and Lung not specified as secondary	M	77	-	-	-	-	-	-	-	-	-	-	-	2	8	6	8	12	19	11	7	3	-
		F	14	-	-	-	-	-	-	-	-	-	-	-	-	2	1	3	2	2	2	1	1	-
A51	Breast	F	48	-	-	-	-	-	-	-	-	-	1	3	2	7	8	6	10	7	2	-	-	2
A52	Cervix Uteri	F	7	-	-	-	-	-	-	-	-	-	-	1	-	1	1	2	-	-	1	1	-	-
A53	Other and unspecified parts of the Uterus	F	15	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	3	3	2	1	-	1
A54	Prostate	M	33	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	3	7	11	7	3
A55	Skin	M	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-
		F	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-
A56	Bone & Connective Tissue	M	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-
		F	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	-

Total	
50 and over	
45 - 49 years	
40 - 44 years	
35 - 39 years	
30 - 34 years	
25 - 29 years	
20 - 24 years	
18 - 19 years	
16 - 17 years	
14 - 15 years	
12 - 13 years	
10 - 11 years	
8 - 9 years	
6 - 7 years	
5 years	
Under 5 years	

V28 Does it contain fibre
V22 Shed
V24 Storeys
V25 Offices and numbering basis
V23 Ceiling fans
V27 Stoves
V20 Electric and kerosene
V19 Lamps
V18 Kerosene
V17 Cooking
V16 Electricity
V15 Source of water supply
V14 Toilet

No. Area (metres) Plot
Ref. Code of Dwgs

Int'l List No.	Cause of Death Intermediate List (7th Rev.)	Sex	Total	AGE																				
				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. +
II cont.																								
A57	All other & unspecified sites.	M	60	-	-	-	-	-	-	-	-	1	1	3	3	3	6	8	10	14	4	4	3	-
		F	59	-	-	2	1	-	1	-	-	-	-	1	1	6	3	9	9	11	7	4	4	-
	A. Other Digestive organs 155-159	M	21	-	-	-	-	-	-	-	-	-	-	-	-	1	5	3	6	1	2	2	1	-
		F	26	-	-	-	-	-	1	-	-	-	-	-	1	3	1	3	6	4	3	3	1	-
	B. Urinary Organs 180-181	M	20	-	-	-	-	-	-	-	-	-	-	1	-	1	-	4	2	8	-	2	2	-
		F	5	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	1	-
	C. Brain & other parts of Nervous System 193	M	8	-	-	-	-	-	-	-	-	1	1	1	1	1	-	1	-	2	-	-	-	-
		F	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-
	D. Other	M	11	-	-	-	-	-	-	-	-	-	-	1	2	-	1	-	2	3	2	-	-	-
		F	24	-	-	1	-	-	-	-	-	-	-	1	-	3	2	3	2	7	3	-	2	-
A58	Leukaemia and Aleukaemia	M	12	-	-	-	-	2	-	-	-	-	-	1	-	-	1	-	1	-	3	4	-	-
		F	10	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	2	3	2	1	-
A59	Lymphosarcoma & other neoplasms of lympathic and haematopoietic system	M	16	-	-	-	-	-	-	1	1	-	-	-	3	2	2	4	-	-	-	3	-	-
		F	10	-	-	-	-	-	-	-	-	1	-	-	1	-	1	1	2	2	-	1	1	-
	A. Hodgkin's disease 201	M	3	-	-	-	-	-	-	-	1	-	-	-	1	1	-	-	-	-	-	-	-	-
		F	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-
	B. Other	M	13	-	-	-	-	-	-	1	-	-	-	-	2	1	2	4	-	-	-	3	-	-
		F	8	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	1	2	-	1	1	-
A60	Benign neoplasms & neoplasms of unspecified nature	M	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
		F	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1	-
III & IV	Allergic Disorders and Endocrine Metabolic and Blood Diseases	T	49	1	-	-	-	-	-	-	1	1	1	1	4	-	1	4	5	10	8	10	2	-
		M	20	1	-	-	-	-	-	-	-	1	-	1	2	-	-	2	3	5	2	3	-	-
		F	29	-	-	-	-	-	-	-	1	-	1	-	2	-	1	2	2	5	6	7	2	-
A63	Diabetes Mellitus	M	8	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	3	2	-	1	-	-
		F	21	-	-	-	-	-	-	-	1	-	-	-	2	-	1	1	2	5	5	3	1	-

Int.I Cause of Death			AGE																					
List Intermediate List																								
No. (ICD Code)	Sex	Total	Aged 12 & Over	0 - 1 Year	1 - 4 Years	2 - 5 Years	5 - 9 Years	10 - 14 Years	15 - 19 Years	20 - 24 Years	25 - 29 Years	30 - 34 Years	35 - 39 Years	40 - 44 Years	45 - 49 Years	50 - 54 Years	55 - 59 Years	60 - 64 Years	65 - 69 Years	70 - 74 Years	75 - 79 Years	80 - 84 Years	85 - 89 Years	90 Years +
II Contd.																								
A21 All other & unspecified (	M	60	-	-	-	-	-	-	-	-	1	1	3	3	3	8	6	10	10	4	4	3	-	)
)	F	95	-	-	5	1	-	1	-	-	-	-	-	1	2	3	6	11	6	5	4	2	-	)
C. Other Digestive Organs	M	31	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3	5	9	3	2	1	-	-
150-159	F	36	-	-	-	-	1	-	-	-	-	-	1	1	1	4	3	4	9	8	3	2	-	-
D. Urinary Organs	M	30	-	-	-	-	-	-	-	-	-	1	-	1	-	4	3	8	5	3	1	1	-	-
180-181	F	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-
E. Genital Organs	M	8	-	-	-	-	-	-	-	-	1	1	1	1	1	-	1	-	-	-	-	-	-	-
190-199	F	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F. Other	M	11	-	-	-	-	-	-	-	-	-	-	1	-	1	2	1	-	-	-	-	-	-	-
	F	24	-	-	1	-	-	-	-	-	-	-	1	-	3	3	3	5	3	-	-	-	-	-
A28 Leukaemia and Aleukaemia	M	13	-	-	-	-	3	-	-	-	-	-	1	-	-	1	-	1	-	-	3	4	-	-
	F	10	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	3	2	1	1	-	-
A29 Lymphosarcoma & other (	M	18	-	-	-	-	-	1	1	-	-	-	3	2	-	1	4	3	-	-	-	-	-	)
neoplasms of lymphatic and (	F	10	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	1	2	2	1	1	-	)
haematopoietic system																								
A. Hodgkin's disease	M	3	-	-	-	-	-	-	-	1	-	-	-	1	1	-	-	-	-	-	-	-	-	-
201	F	5	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-
B. Other	M	13	-	-	-	-	-	-	1	-	-	-	3	1	2	4	-	-	-	-	3	-	-	-
	F	8	-	-	-	-	-	-	-	1	-	-	-	-	1	1	1	-	-	-	1	-	-	-
A30 Benign neoplasms & neoplasms	M	5	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
of unspecified nature	F	4	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1	-	-
III & IV Allergic disorders and	F	45	1	-	-	-	-	-	-	-	1	1	1	1	3	-	1	4	2	10	8	10	3	-
Endocrine Metabolic and	M	30	1	-	-	-	-	-	-	-	1	-	1	-	2	1	-	2	3	5	2	2	-	-
Blood diseases	F	95	-	-	-	-	-	-	-	-	1	-	1	-	2	-	1	3	3	5	2	3	-	-
A31 Diabetes Mellitus	M	8	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	1	3	-	1	-	-
	F	15	-	-	-	-	-	-	-	-	1	-	-	-	2	-	1	1	2	3	2	1	-	-

Int'l List No.	Cause of Death Intermediate List (7th Rev.)	Sex	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. +
	AGE																							
III & IV cont.																								
A65	Anemias	M	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	-	-
		F	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-
A66	Allergic disorders, all other endocrine, metabolic and blood diseases	M	7	-	-	-	-	-	-	-	-	-	-	1	2	-	-	1	-	2	1	-	-	-
		F	5	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	2	-	-
V	Mental, Psychoneurotic and Personality Disorders	T	3	1	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
		M	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	2	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A68	Psychoneuroses and disorders of personality	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
A69	Mental Deficiency	M	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VI	Diseases of the Nervous System and Sense Organs	T	296	-	4	1	-	-	-	1	-	-	4	5	4	8	12	15	22	38	58	50	55	19
		M	152	-	2	1	-	-	-	1	-	-	3	2	2	4	7	6	13	21	35	22	25	8
		F	144	-	2	-	-	-	-	-	-	-	1	3	2	4	5	9	9	17	23	28	30	11
A70	Vascular lesions affecting central nervous system	M	131	-	-	-	-	-	-	1	-	-	2	2	2	3	6	5	11	18	33	19	21	8
		F	132	-	2	-	-	-	-	-	-	-	1	3	1	4	3	9	9	12	21	27	29	11
A71	Non-meningococcal Meningitis	M	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
A72	Multiple Sclerosis	M	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
		F	3	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-	-	-	-
A73	Epilepsy	M	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A78	All other diseases of the nervous system & sense organs	M	17	-	-	1	-	-	-	-	-	-	-	-	-	1	-	1	2	3	2	3	4	-
		F	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2	1	1	-

Int'l List No.	Cause of Death Intermediate List (7th Rev.)	Sex	Total	AGE																				
				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. +
VII	Diseases of the Circulatory System	T	1,032	-	1	1	-	-	-	-	-	1	5	8	15	32	63	81	129	142	181	182	122	69
		M	625	-	-	1	-	-	-	-	-	1	4	7	11	24	42	64	87	90	110	98	60	26
		F	407	-	1	-	-	-	-	-	-	-	1	1	4	8	21	17	42	52	71	84	62	43
A79	Rheumatic Fever	M	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A80	Chronic Rheumatic Heart Disease	M	5	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	2	-	-	-
		F	14	-	-	-	-	-	-	-	-	-	-	1	1	1	3	-	2	2	1	1	2	-
A81	Arteriosclerotic and degenerative heart disease	M	483	-	-	1	-	-	-	-	-	-	4	6	10	20	38	54	65	72	82	71	40	20
		F	301	-	-	-	-	-	-	-	-	-	1	-	2	5	14	14	32	42	55	67	45	24
A82	Other diseases of heart	M	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6	3	8	2	6	-
		F	18	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	3	2	3	5
A83	Hypertension with heart Disease	M	11	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	1	2	1	2	1	1
		F	5	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	1	2	1	1	-
A84	Hypertension without mention of heart	M	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	2	1	-
		F	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	3
A85	Diseases of Arteries	M	61	-	-	-	-	-	-	-	-	1	-	1	-	-	1	5	8	8	12	14	7	4
		F	45	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	3	5	7	6	9	11
A86	Other diseases of Circulatory System	M	29	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	4	4	5	7	5	1
		F	20	-	-	-	-	-	-	-	-	-	-	-	1	1	1	2	3	-	3	7	2	-
VIII	Diseases of the Respiratory System	T	167	-	3	-	-	-	-	-	-	-	3	2	1	2	11	9	8	17	26	36	37	12
		M	112	-	2	-	-	-	-	-	-	-	2	1	1	1	6	9	6	14	15	27	22	6
		F	55	-	1	-	-	-	-	-	-	-	1	1	-	1	5	-	2	3	11	9	15	6
A88	Influenza	M	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A89	Lobar Pneumonia	M	15	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1	3	3	2	4	-
		F.	5	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	3	-

Item No.	Total	Male	Female	Urban	Rural
	(In Years)				
V01	Total				
V02	0 - 12 months				
V03	1 yr. 1 - 5 yr.				
V04	6 - 9 yrs.				
V05	10 - 14 yrs.				
V06	15 - 19 yrs.				
V07	20 - 24 yrs.				
V08	25 - 29 yrs.				
V09	30 - 34 yrs.				
V10	35 - 39 yrs.				
V11	40 - 44 yrs.				
V12	45 - 49 yrs.				
V13	50 - 54 yrs.				
V14	55 - 59 yrs.				
V15	60 - 64 yrs.				
V16	65 - 69 yrs.				
V17	70 yrs. +				

Incl. Comes to Death

Prev. Interval Hist

Current Illness or Injury

V18 Diseases of the circulatory system

V19 Hypertensive disease

V20 Ischaemic heart disease

V21 Other diseases of heart

V22 Cerebrovascular disease

V23 Other diseases of circulatory system

V24 Influenza

V25 Acute upper respiratory infections (other than influenza)

V26 Pneumonia

V27 Other diseases of respiratory system

V28 Peptic ulcer

V29 Appendicitis

V30 Hernia of abdominal cavity

V31 Cirrhosis of liver

V32 Other diseases of digestive system

V33 Nephritis and nephrosis

V34 Hyperplasia of prostate

V35 Other diseases of genito-urinary system

V36 Abortion

V37 Complications of pregnancy, childbirth and puerperium

V38 Boils, cellulitis and other inflammations of skin and subcutaneous tissue

V39 Chronic ulcer of skin

V40 Other diseases of skin and subcutaneous tissue

V41 Arthritis and rheumatism

V42 Other diseases of musculoskeletal system and connective tissue

V43 Congenital anomalies

V44 Certain causes of perinatal mortality

V45 Symptoms, senility and ill-defined conditions

V46 Injuries, poisonings

V47 Fracture of skull

V48 Fracture of neck and trunk

V49 Fracture of upper limb

V50 Fracture of lower limb

V51 Other and unspecified fractures

V52 Dislocations

V53 Sprains and strains of joints and adjacent muscles

V54 Internal injury of chest, abdomen and pelvis

V55 Open wound of head, neck and trunk

V56 Open wound of upper limb

V57 Open wound of lower limb

V58 Other and unspecified effects of external causes

V59 Burns

V60 Poisoning by drugs, medicaments and biological substances

V61 Toxic effects of substances chiefly nonmedicinal as to source

V62 Other accidents

V63 Complications of medical and surgical care, not elsewhere classified

V64 Symptoms and ill-defined conditions

V65 Persons without current illness or injury

V66 Persons with current illness or injury

V67 Persons with chronic illness

V68 Persons with current acute illness

V69 Persons with current injury

V70 Persons with current disability

V71 Persons with current restricted activity

V72 Persons with current bed disability

V73 Persons with current hospitalization

V74 Persons with current surgery

V75 Persons with current dental condition

V76 Persons with current visit to dentist

V77 Persons with current visit to physician

V78 Persons with current visit to optometrist

V79 Persons with current visit to chiropodist

V80 Persons with current visit to physiotherapist

V81 Persons with current visit to other health professional

V82 Persons with current visit to hospital

V83 Persons with current visit to emergency room

V84 Persons with current visit to hospital outpatient department

V85 Persons with current visit to hospital clinic

V86 Persons with current visit to other health facility

V87 Persons with current visit to other health professional

V88 Persons with current visit to other health facility

V89 Persons with current visit to other health professional

V90 Persons with current visit to other health facility

V91 Persons with current visit to other health professional

V92 Persons with current visit to other health facility

V93 Persons with current visit to other health professional

V94 Persons with current visit to other health facility

V95 Persons with current visit to other health professional

V96 Persons with current visit to other health facility

V97 Persons with current visit to other health professional

V98 Persons with current visit to other health facility

V99 Persons with current visit to other health professional

Int'l List No.	Cause of Death Intermediate List (7th Rev.)	Sex	Total	AGE																			
				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. +
VIII	cont.																						
A90	Bronchopneumonia	M	46	-	-	-	-	-	-	-	-	-	1	1	1	1	1	2	3	4	6	13	9	4
		F	32	-	1	-	-	-	-	-	-	-	1	-	-	-	2	-	1	2	7	6	10	2
A91	Primary, atypical, other and unspecified pneumonia	M	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	3	1	3	2
		F	10	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	2	2	2	3
A92	Acute Bronchitis	M	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
A93	Bronchitis chronic and unqualified	M	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	1	4	3	-
		F	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1
A95	Empyema and abscess of lung	M	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A97	All other respiratory diseases	M	24	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3	2	5	2	6	2	-
		F	4	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	1	-	-	-	-
IX	Diseases of the Digestive System	T	123	3	2	-	1	-	-	1	2	-	3	4	3	5	6	16	13	19	16	16	10	3
		M	73	3	1	-	1	-	-	1	1	-	1	1	2	2	5	10	9	13	11	8	3	2
		F	50	-	1	-	-	-	-	-	1	-	2	3	1	3	1	6	5	6	5	8	7	1
A99	Ulcer of Stomach	M	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	3	-	1	-	-
		F	5	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	2	2	-
A100	Ulcer of Duodenum	M	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	1	-	-
		F	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-
A103	Intestinal obstruction and hernia	M	13	3	-	-	-	-	-	1	-	-	-	-	-	-	1	2	1	3	1	-	1	-
		F	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	1	2	3	1
A104	Gastro - enteritis & colitis except diarrhoea of new-born	M	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	2	3	-	-
		F	5	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1	-	-

Int'l List No.	Cause of Death Intermediate List (7th Rev.)	Sex	Total	AGE																				
				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. +
IX	Diseases of the Digestive System cont.																							
A105	Cirrhosis of Liver	M	23	-	-	-	-	-	-	-	1	-	-	1	2	2	3	2	3	3	2	3	1	-
		F	14	-	-	-	-	-	-	-	-	-	2	2	-	2	1	5	1	-	1	-	-	-
A106	Cholelithiasis and	M	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1
	Cholecystitis	F	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-
A107	Other diseases of digestive	M	14	-	1	-	1	-	-	-	-	-	1	-	-	-	1	4	2	-	2	-	1	1
	system	F	7	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	2	1	-	1	1	-
X	Diseases of the Genito Urinary System	T	38	-	-	-	-	-	-	1	-	-	1	1	1	1	3	-	5	5	6	8	2	4
		M	25	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	4	2	5	5	2	4
		F	13	-	-	-	-	-	-	-	-	-	-	-	1	1	3	-	1	3	1	3	-	-
A109	Chronic, other and	M	7	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	1	-	-	2	1	-
	Unspecified nephritis	F	4	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	1	-	1	-	-
A110	Infections of kidney	M	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	2	-	1
		F	7	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	1	2	1	-	-	-
A111	Calculi of Urinary System	M	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A112	Hyperplasia of Prostate	M	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	2
A114	Other diseases of Genito	M	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	1
	Urinary System	F	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
XI	Deliveries and Complications of Pregnancy, Childbirth and the Puerperium	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Int'l List No.	Cause of Death Intermediate List (7th Rev.)	Sex	Total	AGE																			
				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. +
XII & XIII		T	18	1	-	-	-	-	-	-	-	-	-	-	-	-	3	2	2	3	2	3	2	-
	Disease of the Skin and	M	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	-	-
	Musculoskeletal System	F	13	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-	3	2	1	2	-
A121	Infections of skin and	M	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
	subcutaneous tissue	F	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
A122	Arthritis and spondylitis	M	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
		F	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	1	1	-
A124	Osteomyelitis and	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Periostitis	F	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
A125	Ankylosis and acquired	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	musculoskeletal deformities	F	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
A126	All other diseases of skin	M	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
	and musculosketal system	F	5	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	-	-	1	-
XIV	Congenital Malformations	T	22	10	3	6	-	-	-	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-
		M	11	5	3	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
		F	11	5	-	4	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
A127	Spina Bifida and meningocele	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A128	Congenital malformations of	M	7	4	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	circulatory system	F	5	3	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A129	All other congenital	M	4	1	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
	malformations	F	4	1	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-

Int'l List No.	Cause of Death Intermediate List (7th Rev.)	Sex	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. +
XV	Certain diseases of early Infancy	T	52	49	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	30	29	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	22	20	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A130	Birth Injuries	M	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A131	Postnatal asphyxia and atelectasis	M	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	5	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A132	Infections of the newborn	M	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A134	All other defined diseases of early infancy.	M	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A135	Ill defined diseases peculiar to early infancy and immaturity unqualfied	M	21	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	14	13	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XVI	Symptoms, Senility and Ill defined conditions	T	9	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	2	1	2
		M	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1
		F	5	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	-	1
A136	Senility without mention of psychosis	M	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A137	Ill defined and unknown causes	M	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-
		F	5	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	-	1

Sex	Total	0 - 12 years	13 - 17 years	18 - 21 years	22 - 24 years	25 - 29 years	30 - 34 years	35 - 39 years	40 - 44 years	45 - 49 years	50 - 54 years	55 - 59 years	60 - 64 years	65 - 69 years	70 - 74 years	75 - 79 years	80 - 84 years	85 years +
Male																		
Female																		

30A

Institutional Cases of Death
(by Sex)

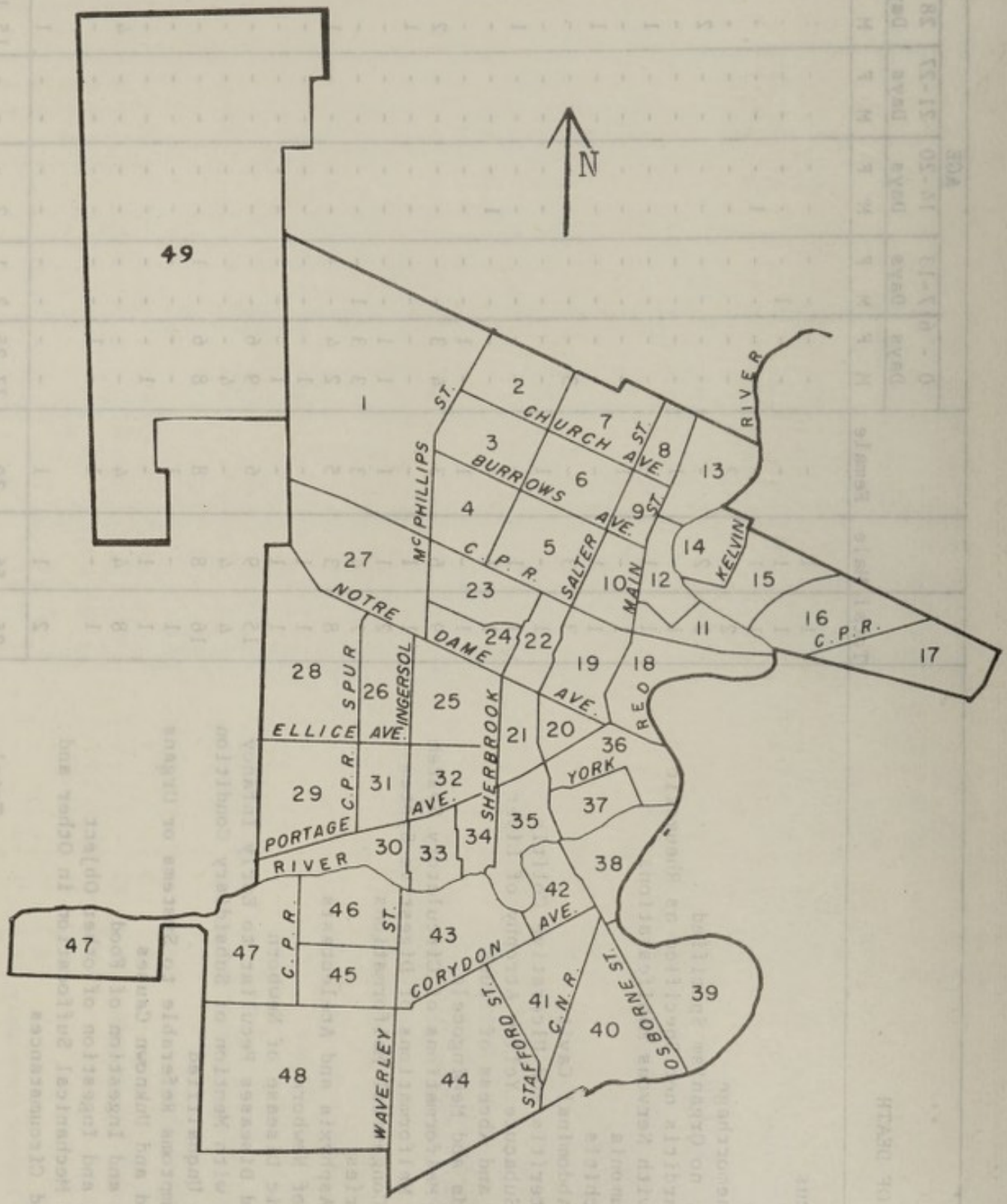
No.	Cause of Death	Sex	Total	0 - 12 years	13 - 17 years	18 - 21 years	22 - 24 years	25 - 29 years	30 - 34 years	35 - 39 years	40 - 44 years	45 - 49 years	50 - 54 years	55 - 59 years	60 - 64 years	65 - 69 years	70 - 74 years	75 - 79 years	80 - 84 years	85 years +
001	Cholera	M																		
		F																		
002	Bacillary dysentery	M																		
		F																		
003	Amoebic dysentery	M																		
		F																		
004	Other intestinal infections	M																		
		F																		
005	Tuberculosis of the respiratory system	M																		
		F																		
006	Other tuberculosis, including late effects	M																		
		F																		
007	Syphilis and its sequelae	M																		
		F																		
008	Other venereal diseases	M																		
		F																		
009	Whooping cough	M																		
		F																		
010	Streptococcal sore throat, scarlatina and erysipelas	M																		
		F																		
011	Meningococcal infection	M																		
		F																		
012	Acute poliomyelitis	M																		
		F																		
013	Smallpox	M																		
		F																		
014	Measles	M																		
		F																		
015	Typhus and other rickettsioses	M																		
		F																		
016	Malaria	M																		
		F																		
017	Early syphilis, congenital	M																		
		F																		
018	Late congenital syphilis, neurosyphilis etc.	M																		
		F																		
019	Other diseases of early infancy	M																		
		F																		
020	Influenza	M																		
		F																		
021	Viral pneumonia (not influenza)	M																		
		F																		
022	Bacterial pneumonia, except tuberculosis and venereal disease	M																		
		F																		
023	Other diseases of the respiratory system	M																		
		F																		
024	Ulcer of stomach and duodenum	M																		
		F																		
025	Appendicitis	M																		
		F																		
026	Abdominal hernia	M																		
		F																		
027	Chronic enteritis and ulcerative colitis	M																		
		F																		
028	Intestinal obstruction without mention of hernia	M																		
		F																		
029	Other diseases of the digestive system	M																		
		F																		
030	Nephritis and nephrosis	M																		
		F																		
031	Other diseases of the genito-urinary system	M																		
		F																		
032	Abortion	M																		
		F																		
033	Complications of pregnancy, childbirth and the puerperium	M																		
		F																		
034	Boils, carbuncles and other local infections of skin and subcutaneous tissue	M																		
		F																		
035	Other diseases of the skin and subcutaneous tissue	M																		
		F																		
036	Arthritis and rheumatism, except rheumatic fever	M																		
		F																		
037	Other diseases of the musculo-skeletal system and connective tissue	M																		
		F																		
038	Congenital malformations	M																		
		F																		
039	Other defined and ill-defined diseases	M																		
		F																		
040	Motor vehicle accidents	M																		
		F																		
041	All other accidents	M																		
		F																		
042	Suicide	M																		
		F																		
043	Homicide and operations of war	M																		
		F																		
044	Other external causes	M																		
		F																		
045	Malignant neoplasm, stomach	M																		
		F																		
046	Malignant neoplasm, intestine, except rectum	M																		
		F																		
047	Malignant neoplasm, rectum	M																		
		F																		
048	Malignant neoplasm, liver and gall bladder	M																		
		F																		
049	Malignant neoplasm, pancreas	M																		
		F																		
050	Malignant neoplasm, lung, bronchus	M																		
		F																		
051	Malignant neoplasm, breast	M																		
		F																		
052	Malignant neoplasm, uterus	M																		
		F																		
053	Malignant neoplasm, other and unspecified sites	M																		
		F																		
054	Leukaemia, aleukaemia	M																		
		F																		
055	Other neoplasms	M																		
		F																		
056	Diabetes mellitus	M																		
		F																		
057	Avitaminosis and other nutritional deficiencies	M																		
		F																		
058	Anaemias	M																		
		F																		
059	Other diseases of the blood and blood-forming organs	M																		
		F																		
060	Meningitis, except meningococcal and tuberculous	M																		
		F																		
061	Vascular lesions affecting central nervous system	M																		
		F																		
062	Epilepsy	M																		
		F																		
063	Other diseases of the nervous system and sense organs	M																		
		F																		
064	Rheumatic fever	M																		
		F																		
065	Chronic rheumatic heart disease	M																		
		F																		
066	Arteriosclerotic heart disease, including coronary disease	M																		
		F																		
067	Hypertension with heart disease	M																		
		F																		
068	Other forms of heart disease	M																		
		F																		
069	Cerebral haemorrhage	M																		
		F																		
070	Hypertension without heart disease	M																		
		F																		
071	Other circulatory diseases	M																		
		F																		
072	Influenza	M																		
		F																		
073	Pneumonia	M																		
		F																		
074	Bronchitis	M																		
		F																		
075	Other diseases of the respiratory system	M																		
		F																		
076	Peptic ulcer	M																		
		F																		
077	Appendicitis	M																		
		F																		
078	Abdominal hernia	M																		
		F																		
079	Chronic enteritis and ulcerative colitis	M																		
		F																		
080	Intestinal obstruction without mention of hernia	M																		
		F																		
081	Other diseases of the digestive system	M																		
		F																		
082	Nephritis and nephrosis	M																		
		F																		
083	Other diseases of the genito-urinary system	M																		
		F																		
084	Abortion	M																		
		F																		
085	Complications of pregnancy, childbirth and the puerperium	M																		
		F																		
086	Boils, carbuncles and other local infections of skin and subcutaneous tissue	M																		
		F																		
087	Other diseases of the skin and subcutaneous tissue	M																		
		F																		
088	Arthritis and rheumatism, except rheumatic fever	M																		
		F																		
089	Other diseases of the musculo-skeletal system and connective tissue	M																		
		F																		
090	Congenital malformations	M																		
		F																		
091	Other defined and ill-defined diseases	M																		
		F																		
092	Motor vehicle accidents	M																		
		F																		
093	All other accidents	M																		
		F																		
094	Suicide	M																		
		F																		
095	Homicide and operations of war	M																		
		F																		
096	Other external causes	M																		
		F																		
097	Malignant neoplasm, stomach	M																		
		F																		
098	Malignant neoplasm, intestine, except rectum	M																		
		F																		
099	Malignant neoplasm, rectum	M																		
		F																		
100	Malignant neoplasm, liver and gall bladder	M																		
		F																		
101	Malignant neoplasm, pancreas	M																		
		F																		
102	Malignant neoplasm, lung, bronchus	M																		
		F																		
103	Malignant neoplasm, breast	M																		
		F																		
104	Malignant neoplasm, uterus	M																		
		F																		
105	Malignant neoplasm, other and unspecified sites	M																		
		F																		
106	Leukaemia, aleukaemia	M																		
		F																		
107	Other neoplasms	M																		
		F																		
108	Diabetes mellitus	M																		
		F																		
109	Avitaminosis and other nutritional deficiencies	M																		
		F																		
110	Anaemias	M																		
		F																		
111	Other diseases of the blood and blood-forming organs	M																		
		F																		
112	Meningitis, except meningococcal and tuberculous	M																		
		F																		
113	Vascular lesions affecting central nervous system	M																		
		F																		
114	Epilepsy	M																		
		F																		
115	Other diseases of the nervous system and sense organs	M																		
		F																		
116	Rheumatic fever	M																		
		F																		
117	Chronic rheumatic heart disease	M																		
		F																		
118	Arteriosclerotic heart disease, including coronary disease	M																		
		F																		
119	Hypertension with heart disease	M																		
		F																		
120	Other forms of heart disease	M																		
		F																		
121	Cerebral haemorrhage	M																		
		F																		
122	Hypertension without heart disease	M																		
		F																		
123	Other circulatory diseases	M																		
		F																		
124	Influenza	M																		
		F																		
125	Pneumonia	M																		
		F																		
126	Bronchitis	M																		
		F																		
127	Other diseases of the respiratory system	M																		
		F																		
128	Peptic ulcer	M																		
		F																		
129	Appendicitis	M																		
		F																		
130	Abdominal hernia	M																		
		F																		
131	Chronic enteritis and ulcerative colitis	M																		
		F																		
132	Intestinal obstruction without mention of hernia	M																		
		F																		
133	Other diseases of the digestive system	M																		
		F																		
134	Nephritis and nephrosis	M																		
		F																		
135	Other diseases of the genito-urinary system	M																		
		F																		
136	Abortion	M																		
		F																		
137	Complications of pregnancy, childbirth and the puerperium	M																		
		F																		
138	Boils, carbuncles and other local infections of skin and subcutaneous tissue	M																		
		F																		
139	Other diseases of the skin and subcutaneous tissue	M																		
		F																		
140	Arthritis and rheumatism, except rheumatic fever	M																		
		F																		
141	Other diseases of the musculo-skeletal system and connective tissue	M																		
		F																		
142	Congenital malformations	M																		
		F																		
143	Other defined and ill-defined diseases	M																		
		F																		
144	Motor vehicle accidents	M																		
		F																		
145	All other accidents	M																		
		F																		
146	Suicide	M																		
		F																		
147	Homicide and operations of war	M																		
		F																		
148	Other external causes	M																		
		F																		
149	Malignant neoplasm, stomach	M																		
		F																		
150	Malignant neoplasm, intestine, except rectum	M																		
		F																		
151	Malignant neoplasm, rectum	M																		
		F																		
152	Malignant neoplasm, liver and gall bladder	M																		
		F																		
153	Malignant neoplasm, pancreas	M																		
		F																		
154	Malignant neoplasm, lung, bronchus	M																		
		F																		
155	Malignant neoplasm, breast	M																		
		F																		
156	Malignant neoplasm, uterus	M																		
		F																		
157	Malignant neoplasm, other and unspecified sites	M																		
		F																		
158	Leukaemia, aleukaemia	M																		
		F																		
159	Other neoplasms	M																		
		F																		
160	Diabetes mellitus	M																		
		F																		
161	Avitaminosis and other nutritional deficiencies	M																		
		F																		
162	Anaemias	M																		
		F																		
163	Other diseases of the blood and blood-forming organs	M																		
		F																		
164	Meningitis, except meningococcal and tuberculous	M																		
		F																		
165	Vascular lesions affecting central nervous system	M																		
		F																		
166	Epilepsy	M																		
		F																		
167	Other diseases of the nervous system and sense organs	M																		
		F																		
168	Rheumatic fever	M																		
		F																		
169	Chronic rheumatic heart disease	M																		
		F																		
170	Arteriosclerotic heart disease, including coronary disease	M																		
		F																		
171	Hypertension with heart disease	M																		
		F																		
172	Other forms of heart disease	M																		
		F																		
173	Cerebral haemorrhage	M																		
		F																		
174	Hypertension without heart disease	M																		
		F																		
175	Other circulatory diseases	M																		
		F																		
176	Influenza	M																		
		F																		
177	Pneumonia	M																		
		F																		
178	Bronchitis	M																		
		F																		
179	Other diseases of the respiratory system	M																		
		F																		
180	Peptic ulcer	M																		
		F																		
181	Appendicitis	M																		
		F																		
182	Abdominal hernia	M																		
		F																		
183	Chronic enteritis and ulcerative colitis	M																		
		F																		
184	Intestinal obstruction without mention of hernia	M																		
		F																		
185	Other diseases of the digestive system	M																		
		F																		
186	Nephritis and nephrosis	M																		
		F																		
187	Other diseases of the genito-urinary system	M																		
		F																		
188	Abortion	M																		
		F																		
189	Complications of pregnancy, childbirth and the puerperium	M																		
		F																		
190	Boils, carbuncles and other local infections of skin and subcutaneous tissue	M																		
		F																		
191	Other diseases of the skin and subcutaneous tissue	M																		
		F																		
192	Arthritis and rheumatism, except rheumatic fever	M																		
		F																		
193	Other diseases of the musculo-skeletal system and connective tissue	M																		
		F																		
194	Congenital malformations	M																		
		F																		
195	Other defined and ill-defined diseases	M																		
		F																		
196	Motor vehicle accidents	M																		
		F																		
197	All other accidents	M																		
		F																		
198	Suicide	M																		
		F																		
199	Homicide and operations of war	M																		
		F																		
200	Other external causes	M																		
		F																		

Int'l List No.	Cause of Death Intermediate List (7th Rev.)	Sex	Total	AGE																			
				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. +
XVII	Accidents, Poisonings and Violence.	T	177	1	10	7	4	3	16	12	6	16	11	10	9	6	10	11	8	4	12	7	8	6
		M	108	-	5	-	2	2	12	11	5	12	6	9	6	2	6	6	4	4	7	2	3	4
		F	69	1	5	7	2	1	4	1	1	4	5	1	3	4	4	5	4	-	5	5	5	2
AE138	Motor Vehicle accidents	M	31	-	-	-	1	1	6	4	1	6	2	2	1	1	2	3	-	1	-	-	-	-
		F	18	-	-	2	2	1	4	1	-	1	1	1	2	1	-	-	2	-	-	-	-	-
AE139	Other transport accidents	M	5	-	-	-	-	-	1	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AE140	Accidental Poisoning	M	5	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	1	-	-	-
		F	4	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	2	-	-	-	-	-
AE141	Accidental Falls	M	19	-	-	-	-	-	1	2	-	1	-	1	1	-	-	2	1	1	2	1	2	4
		F	22	-	-	-	-	-	-	-	-	-	2	-	-	1	1	2	-	-	4	5	5	2
AE142	Accidents caused by machinery	M	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AE143	Accidents caused by fire and explosion of combustible material	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	3	-	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
AE144	Accidents caused by hot substance, corrosive liquid, steam, and radiation	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AE145	Accidents caused by firearm	M	2	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AE146	Accidental drowning and submersion	M	7	-	-	-	1	1	1	-	1	1	-	1	1	-	-	-	-	-	-	-	-	-
		F	2	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
AE147	All other accidental causes	M	13	-	5	-	-	-	-	-	1	-	-	2	1	-	2	-	-	1	1	-	-	-
		F	11	1	5	-	-	-	-	-	-	-	-	-	1	-	2	1	-	-	1	-	-	-
AE148	Suicides	M	21	-	-	-	-	-	1	2	-	2	1	2	1	1	2	1	3	1	2	1	1	-
		F	7	-	-	-	-	-	-	-	-	3	1	-	-	1	-	2	-	-	-	-	-	-
AE149	Homicide and injury purposely inflicted by other persons (not in war)	M	4	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-	1	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Int'l List No.	Cause of Death (Intermediate List (7th Rev.)	Sex	Total	AGE																		
				Under 1 year	1 - 4 years	5 - 9 years	10 - 14 years	15 - 19 years	20 - 24 years	25 - 29 years	30 - 34 years	35 - 39 years	40 - 44 years	45 - 49 years	50 - 54 years	55 - 59 years	60 - 64 years	65 - 69 years	70 - 74 years	75 - 79 years	80 - 84 years	85 years and over
XVII	Accidents, Poisonings and Violence.	T	177	10	7	4	3	16	12	6	16	11	10	9	6	10	11	8	4	12	7	6
		M	108	-	5	2	2	12	11	5	12	8	9	6	2	6	6	4	4	7	2	3	4
		F	69	1	5	2	1	4	5	1	4	3	1	3	4	4	5	4	-	5	5	3	2
AE138	Motor Vehicle accidents	M	71	-	-	1	1	6	4	1	6	2	2	1	1	2	3	-	1	-	-	-	-
		F	18	-	-	2	1	4	1	-	1	1	1	2	1	-	-	2	-	-	-	-	-
AE139	Other transport accidents	M	5	-	-	-	-	-	1	2	-	2	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AE140	Accidental Poisoning	M	5	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	1	-	-	-
		F	4	-	-	-	-	-	-	-	-	1	-	-	-	1	-	2	-	-	-	-	-
AE141	Accidental Falls	M	19	-	-	-	-	1	2	-	1	-	1	1	-	-	2	1	2	1	2	-	-
		F	22	-	-	-	-	-	-	-	-	2	-	-	1	1	-	-	-	4	5	5	2
AE142	Accidents caused by machinery	M	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AE143	Accidents caused by fire and explosion of combustible material	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	3	-	-	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
AE144	Accidents caused by hot substance, corrosive liquid, steam, and radiation	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AE145	Accidents caused by firearm	M	2	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AE146	Accidental drowning and submersion	M	7	-	-	1	1	1	-	1	1	-	1	1	-	-	-	-	-	-	-	-	-
		F	2	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
AE147	All other accidental causes	M	13	-	5	-	-	-	-	1	-	-	2	1	-	2	-	-	1	1	-	-	-
		F	11	1	5	-	-	-	-	-	-	-	-	1	-	2	1	-	-	1	-	-	-
AE148	Suicides	M	21	-	-	-	-	1	2	-	2	1	2	1	1	2	1	3	1	2	1	1	-
		F	7	-	-	-	-	-	-	-	3	1	-	-	1	-	2	-	-	-	-	-	-
AE149	Homicide and injury purposely inflicted by other persons (not in war)	M	4	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-	1	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

INFANT DEATHS, WINNIPEG RESIDENTS - BY CAUSE, SEX AND AGE - 1967

Code No.	CAUSE OF DEATH	Total	Male	Female	AGE									
					0 - 6 Days		7-13 Days		14-20 Days		21-27 Days		28 + Days	
					M	F	M	F	M	F	M	F	M	F
053.0	Streptococcus	1	1	-	-	-	-	-	-	-	-	-	1	-
292.7	Anaemia	1	1	-	-	-	1	-	-	-	-	-	-	-
325.4	Mongolism	1	1	-	-	-	-	-	1	-	-	-	-	-
331	Cerebral Haemorrhage	2	-	2	-	-	-	-	-	-	-	-	-	2
340.3	Meningitis, no Organism Specified	2	2	-	-	-	-	-	-	-	-	-	2	-
431	Acute Myocarditis not Specified as Rheumatic	1	-	1	-	-	-	-	-	-	-	-	-	1
483	Influenza with Nervous Manifestations	1	1	-	-	-	-	-	-	-	-	-	1	-
491	Bronchopneumonia	1	-	1	-	-	-	-	-	-	-	-	-	1
500	Acute Bronchitis	1	1	-	-	-	-	-	-	-	-	-	1	-
560.4	Hernia of Abdominal Cavity	3	3	-	3	-	-	-	-	-	-	-	-	-
572.3	Chronic Enteritis and Ulcerative Colitis	1	-	1	-	-	-	-	-	-	-	-	-	1
580	Acute and Subacute Yellow Atrophy of Liver	1	1	-	-	-	-	-	-	-	-	-	1	-
692.1	Cellulitis and Abcess of Trunk	1	1	-	-	-	-	-	1	-	-	-	-	-
751	Spina Bifida and Meningocele	1	-	1	-	1	-	-	-	-	-	-	-	-
754	Congenital Malformations of Circulatory System	9	6	3	4	3	-	-	-	-	-	-	2	-
756	Congenital Malformations of Digestive System	1	1	-	-	-	-	-	-	-	-	-	1	-
759	All other Congenital Malformations	2	1	1	1	1	-	-	-	-	-	-	-	-
760-761	Birth Injuries	7	4	3	3	3	1	-	-	-	-	-	-	-
762	Postnatal Asphyxia and Atelectasis	8	3	5	2	4	-	-	-	-	-	-	1	1
763	Pneumonia of Newborn	1	1	-	1	-	-	-	-	-	-	-	-	-
771	Haemorrhagic Disease of Newborn	1	1	-	1	-	-	-	-	-	-	-	-	-
773	Ill-defined Diseases Peculiar to Early Infancy	15	9	6	9	6	-	-	-	-	-	-	-	-
774	Immaturity with Mention of Subsidiary Condition	4	4	-	4	-	-	-	-	-	-	-	-	-
776	Immaturity Unqualified	16	8	8	8	6	-	1	-	-	-	-	-	1
788	General Symptoms Referable to Systems or Organs	1	-	1	-	-	-	-	-	-	-	-	-	1
795	Ill-defined and Unknown Causes	1	1	-	1	-	-	-	-	-	-	-	-	-
921	Inhalation and Ingestion of Food	8	4	4	-	-	-	-	-	-	-	-	4	4
922	Inhalation and Ingestion of other Object	1	-	1	-	1	-	-	-	-	-	-	-	-
925	Accidental Mechanical Suffocation in Other and Unspecified Circumstances	2	1	1	-	-	-	-	-	-	-	-	1	1
	Total	95	56	39	37	25	2	1	2	-	-	-	15	13



City of Winnipeg - Statistical Districts

DEATHS, BIRTHS, INFANT DEATHS, STILLBIRTHS BY STATISTICAL DISTRICTS WITH RATES AS SHOWN - WINNIPEG RESIDENTS 1967

DISTRICT	POPULATION **	DEATHS *		BIRTHS *		INFANT DEATHS		STILLBIRTHS	
		No.	Rate	No.	Rate	No.	Rate per 1,000 Live Births	No.	Rate per 1,000 Live Births
1	6,972	57	8.2	153	21.9	7	45.8	4	26.1
2	4,291	27	6.3	34	7.9	-	-	-	-
3	7,399	57	7.7	81	10.9	2	24.7	1	12.3
4	3,495	37	10.6	47	13.4	1	21.3	-	-
5	8,904	68	7.6	156	17.5	3	19.2	7	44.9
6	9,200	77	8.4	151	16.4	2	13.2	3	19.9
7	6,466	56	8.7	92	14.2	1	10.9	1	10.9
8	3,262	32	9.8	52	15.9	1	19.2	-	-
9	4,218	43	10.2	90	21.3	1	11.1	-	-
10	5,796	55	9.5	61	10.5	2	32.8	-	-
11	1,688	28	16.6	30	17.8	-	-	-	-
12	3,857	50	13.0	46	11.9	-	-	-	-
13	5,364	41	7.6	87	16.2	2	23.0	3	34.5
14	3,216	32	10.0	48	14.9	1	20.8	-	-
15	4,788	48	10.0	71	14.8	-	-	1	14.1
16	6,088	56	9.2	127	20.9	2	15.7	1	7.9
17	4,714	20	4.2	91	19.3	2	22.0	1	11.0
18	1,554	38	24.5	20	12.9	-	-	-	-
19	5,927	105	17.7	116	19.6	7	60.3	3	25.9
20	3,925	86	21.9	74	18.9	1	13.5	3	40.5
21	7,490	81	10.8	182	24.3	7	38.5	2	11.0
22	4,576	42	9.2	105	22.9	2	19.0	2	19.0
23	2,145	15	7.0	46	21.4	4	87.0	1	21.7
24	4,215	28	6.6	88	20.9	2	22.7	-	-
25	13,147	115	8.7	228	17.3	3	13.2	2	8.8
26	4,496	43	9.6	47	10.5	3	63.8	-	-
27	8,495	58	6.8	174	20.5	4	23.0	3	17.2
28	3,154	22	7.0	23	7.3	1	43.5	-	-
29	4,117	48	11.7	59	14.3	2	33.9	2	33.9
30	4,242	28	6.6	86	20.3	-	-	-	-
31	3,651	32	8.8	44	12.1	-	-	-	-
32	8,308	76	9.1	170	20.5	-	-	1	5.9
33	5,981	54	9.0	142	23.7	4	28.2	1	7.0
34	4,613	43	9.3	88	19.1	1	11.4	2	22.7
35	8,664	126	14.5	150	17.3	2	13.3	2	13.3
36	1,576	44	27.9	21	13.3	1	47.6	-	-
37	4,447	73	16.4	62	13.9	2	32.3	-	-
38	5,669	59	10.4	137	24.2	4	29.2	1	7.3
39	5,863	50	8.5	71	12.1	1	14.1	3	42.3
40	7,651	62	8.1	110	14.4	2	18.2	1	9.1
41	8,189	55	6.7	156	19.0	3	19.2	2	12.8
42	4,459	61	13.7	104	23.3	1	9.6	3	28.8
43	7,595	68	9.0	117	15.4	1	8.5	-	-
44	7,786	49	6.3	101	13.0	4	39.6	-	-
45	3,819	31	8.1	39	10.2	-	-	-	-
46	3,967	39	9.8	45	11.3	1	22.2	2	44.4
47	4,505	37	8.2	46	10.2	1	21.7	2	43.5
48	11,485	76	6.6	220	19.2	4	18.2	2	9.1
49	450	3	6.7	10	22.2	-	-	-	-
Unknown	-	5	-	1	-	-	-	-	-
	TOTALS	2,536	10.1	4,499	17.9	95	21.1	62	13.8

** Population according to Dominion Bureau of Statistics - 1961 Census.
* Rate per 1,000 population.

DEATHS,BIRTHS, INFANT DEATHS, STILLBIRTHS BY STATISTICAL
DISTRICTS WITH RATES AS SHOWN - WINNIPEG RESIDENTS 1967

DISTRICT	POPULATION**	DEATHS *		BIRTHS *		INFANT DEATHS		STILLBIRTHS	
		No.	Rate	No.	Rate	No.	Rate per 1,000 Live Births	No.	Rate per 1,000 Live Births
1	6,972	59	8.7	153	21.9	7	45.8	6	39.1
2	4,291	32	8.1	284	7.9	-	-	-	-
3	1,359	22	7.7	81	10.9	2	24.7	1	12.3
4	3,495	37	10.8	63	13.4	1	15.3	-	-
5	6,905	66	7.9	138	17.3	3	19.2	3	24.9
6	9,300	72	8.4	159	16.4	2	12.7	3	18.9
7	6,600	36	5.7	92	14.2	1	10.9	1	10.9
8	3,342	32	9.8	59	15.3	1	16.3	-	-
9	5,218	43	10.2	90	21.3	1	11.1	-	-
10	5,196	52	9.5	61	10.5	2	32.8	-	-
11	1,988	28	10.6	50	17.9	-	-	-	-
12	3,857	39	11.0	65	11.9	-	-	-	-
13	5,754	51	7.5	82	10.2	2	23.9	2	34.5
14	3,219	34	10.0	49	16.9	1	20.3	-	-
15	6,788	58	10.0	71	10.8	-	-	1	10.1
16	6,048	50	9.3	122	20.9	2	13.7	1	7.8
17	3,716	28	8.2	71	19.3	2	22.0	1	11.0
18	1,554	18	12.3	30	19.6	-	-	-	-
19	3,922	39	11.2	118	30.6	3	60.1	3	25.9
20	2,951	40	13.8	74	18.9	1	13.8	3	40.5
21	7,469	57	10.8	185	24.1	2	18.5	2	11.0
22	14,519	78	7.3	203	21.9	2	19.0	2	19.0
23	2,145	15	7.0	44	31.6	1	82.0	1	21.7
24	4,215	28	6.6	88	20.9	2	22.7	-	-
25	11,147	115	8.2	208	14.8	2	13.2	2	8.9
26	6,498	63	9.6	147	19.5	3	61.8	-	-
27	8,495	58	6.8	154	20.1	4	23.0	3	17.2
28	3,134	22	7.0	73	21.1	1	43.5	-	-
29	4,117	49	11.7	59	12.0	2	33.9	2	33.9
30	4,242	28	6.1	88	20.3	-	-	-	-
31	3,651	32	8.8	44	12.1	-	-	-	-
32	8,308	76	9.1	170	20.5	-	-	1	5.9
33	5,981	54	9.0	102	17.1	4	39.2	2	19.6
34	4,613	42	9.1	84	18.1	1	11.9	2	23.7
35	8,665	124	14.3	150	17.3	2	13.3	2	13.3
36	1,576	44	27.9	31	19.7	1	32.6	-	-
37	4,447	73	16.4	82	18.4	1	12.2	-	-
38	5,659	59	10.4	117	20.7	4	34.2	1	8.5
39	5,861	50	8.5	71	12.1	1	14.1	3	42.3
40	7,651	62	8.1	110	14.4	1	9.1	1	9.1
41	8,189	55	6.7	136	16.6	3	22.1	2	12.8
42	4,659	61	13.1	104	22.3	1	9.6	3	28.8
43	7,595	68	9.0	117	15.4	1	8.5	-	-
44	7,786	49	6.3	101	13.0	4	39.6	-	-
45	3,819	31	8.1	39	10.2	-	-	-	-
46	3,957	37	9.4	78	19.7	2	25.6	2	25.6
47	6,505	37	5.7	46	10.3	1	21.7	2	43.5
48	11,485	76	6.6	220	19.2	4	18.2	2	9.1
49	6,560	43	6.6	10	22.2	-	-	-	-
Unknown	-	2	-	1	-	-	-	-	-
TOTALS	215,356	2,249	10.1	4,459	17.8	95	21.1	62	13.8

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

INFECTIOUS AND OTHER DISEASES

The control of communicable disease is still one of the primary activities of local health departments. Although the size of this problem is not as great as in the past, it still constitutes a very time-consuming but nevertheless necessary job considering that the personnel devoted to this work has been considerably curtailed; also that so many other activities in new fields are imposing a demand on our time.

Infectious disease has not disappeared. Although in 1967 we had no deaths, for example, from diphtheria, at the time this report is being written we have already lost two children from the dreadful disease, and one is struggling for his life at the Children's Hospital. In 1967 there were twelve deaths from tuberculosis and one death from infectious hepatitis. We are not considering, of course, the very numerous deaths that have occurred from pneumonia, viral diseases, infectious wound complications, and many others that are not in the list of the traditionally reportable infectious conditions and for which no immediate effective control measure can be applied at Health Department level.

Our sources of information regarding the notifiable infectious diseases come from doctors, nurses, laboratories, and the public at large. An idea about the prevalence of other non-reportable infections in the City is given by the public health nurses in schools in their weekly reports. Some of this information is passed on to practising physicians and has proven of help to the medical profession.

In 1967 we were quite active with visiting people with health problems in their own homes. Some of these are welfare recipients and indigents; some were not but their circumstances were such that our help had been requested either directly from the patient or from relatives or landlords. These cases with which we are confronted usually present some problem which is difficult to solve, such as placing old people in nursing homes or compulsory admissions of the mentally ill to an institution. The Department is offering an acute crisis psychiatric service for the mentally disturbed indigent patients. Requests for this type of service have increased tremendously. This is explained partly by increased public interest in mental health; diminished tolerance of relatives, neighbours and landlords for disturbed individuals as well as increased awareness of the availability of this type of service by the public. We believe that health agencies should get together to make recommendations for a better-organized community service in this field.

During 1967 our Department has co-operated very closely with the Social Audit Committee established to study social and health facilities available in the Greater Winnipeg area. The Deputy Medical Health Officer and the Director of Nursing have participated in their study committees and our entire staff has contributed to collection of information and material. This effort has been a worth while one and we believe that some benefit will result from reviewing our needs in the Greater Winnipeg area, how they are presently met and what can be done to improve their efficiency with less duplication and confusion for the one utilizing these services.

The Department is carrying out a research project on hepatitis, on the management of compulsory admissions for mental disease, and has also

co-operated with the Medical College (Department of Preventive Medicine and Epidemiology) in several projects they are carrying out in the field of cancer, congenital anomalies, and others.

Now, some comments on particular diseases: Infectious skin diseases are considered trivial by family physicians. Indeed, they are, in the sense that they never cause death or serious disability. I must admit, however, that they constitute a serious health problem in the poorer areas of the City. Impetigo, ringworm, scabies, and pediculosis, are not only a nuisance to the sufferers but also a cause of absenteeism, economic loss, and sometimes loss of a school year. Their treatment and control necessitates considerable effort from this Department.

There were forty-nine cases of bacillary dysentery during the year. They also occurred in the poorer areas of the City. They constitute a family infection spreading from home to home and their control is at times difficult. There were thirteen cases of salmonella infection that clinically and epidemiologically resemble dysentery.

There were fifty-two cases of hepatitis reported in the City in 1967, a drop from the seventy-five cases we had last year. A few of these cases were contracted from animals and the study of them proved tremendously interesting.

We have noticed a considerable drop in cases of measles in 1967. This disease is not reportable and exact figures are therefore not at hand. Yet the reduction in incidence was striking enough to convince all observers. We believe that money and effort invested in the very effective live attenuated measles vaccine, which is now widely used in our community by both practising physicians and the Health Department, is starting to pay off handsome dividends in terms of lessened suffering and complications.

We had no poliomyelitis during the year. With the exception of the one case in a visitor in 1966, there has been practically no trouble from this disease for many years, again the result of an effective immunization program. This will be particularly appreciated by those who remember the dreadful epidemics of the 1950's.

During 1967 this Department has continued to give medical examinations for new civic employees. Most of these were pre-employment medicals but many were to advise the respective Departments when a health matter had interfered with an employee's work or performance. We also have administered first-aid treatment to a great number of people, most of whom are working in the building, who presented to the Department following an injury or sickness. This service is very time-consuming to us as it comes unannounced and interferes with our other work; it is largely unavoidable but is appreciated as a public service by those who use it.

TABLE OF REPORTABLE INFECTIOUS DISEASES

CASES AND DEATHS REPORTED	1967 CASES	1967 DEATHS	1966 CASES	1966 DEATHS
Diarrhoea of the New Born	1	-	-	-
Diphtheria	1	-	2	-
Diphtheria Carriers	-	-	7	-
Dysentery, Amboebic	-	-	-	-
Dysentery, Bacillary	49	-	24	-
Dysentery, Unspecified	11	-	10	-
Encephalitis, Infectious	3	-	-	-
Food Poisoning	13	-	6	-
Hepatitis, Infectious	52	1	75	2
Meningitis, (Meningococcal)	-	-	2	-
Meningitis, (Viral or Aseptic)	3	-	5	-
Pertussis	9	-	12	1
Poliomyelitis	-	-	1	-
Scarlet Fever	63	-	18	-
Smallpox	-	-	-	-
Tuberculosis, Pulmonary	39	12	61	4
Typhoid Fever & Paratyphoid Fever	1	-	-	-
Typhoid Fever Carriers	-	-	-	-
Undulant Fever	-	-	2	-
	245	13	225	7

TABLE OF NOTIFIABLE INFECTIOUS DISEASES

CASES AND DEATHS NOTIFIED	1957		1956	
	CASES	DEATHS	CASES	DEATHS
Diarrhoea of the New Born	1	-	-	-
Diphtheria	1	-	3	-
Diphtheria Carriers	-	-	7	-
Dysentery, Amoebic	-	-	-	-
Dysentery, Bacillary	45	-	24	-
Dysentery, Unspecified	11	-	10	-
Encephalitis, Infectious	3	-	-	-
Food Poisoning	13	-	6	-
Hepatitis, Infectious	52	1	75	2
Meningitis, (Meningococcal)	-	-	2	-
Meningitis, (Viral or Aseptic)	3	-	5	-
Paratyphoid	9	-	12	1
Poliomyelitis	-	-	1	-
Scarlet Fever	63	-	18	-
Smallpox	-	-	-	-
Tuberculosis, Pulmonary	39	12	61	4
Typhoid Fever & Paratyphoid Fever	1	-	-	-
Typhoid Fever Carriers	-	-	-	-
Undulant Fever	-	-	2	-
	245	13	225	7

MEDICAL RELIEF AND OTHER SERVICES

Patients visited by District Physicians	1,101
Glasses supplied to school children	946
Persons receiving Insulin (monthly average)	104
Persons receiving Liver Extract (monthly average)	1
Persons receiving Prophylactic Penicillin (monthly average)	331

(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.)

COMPLETED IMMUNIZATIONS AND VACCINATIONS

	Under 1 Year	1 Year	2 - 5 Years	6 - 16 Years	Over 16 Years	Total
Completed Primary Immunizations for:						
Diphtheria	69	258	251	21	-	599
Pertussis	65	247	208	2	-	522
Tetanus	69	258	251	19	-	597
Poliomyelitis	63	219	216	20	-	518
Completed Reinforcing Immunizations for:						
Diphtheria	2	29	617	7,235	6	7,889
Tetanus	2	29	597	7,232	5	7,865
Poliomyelitis	2	22	565	7,284	9	7,882
Measles Inoculations	240	277	640	-	-	1,157
Primary Smallpox Vaccinations	132	170	240	33	15	590
TOTAL IMMUNIZED	644	1,509	3,585	21,846	35	27,619

TUBERCULOSIS CONTROL

During 1967 there were twelve deaths from tuberculosis in Winnipeg, in comparison to eight last year. The difference is small and, in all probability, statistically insignificant but it shows that tuberculosis is by no means a negigible source of mortality, even today.

The age distribution of the fatal cases is shown below:

Total Number of Tuberculosis Deaths in 1967 According to Age

Age	Number
32	1
39	1
53	1
56	2
61	1
65	1
69	1
70	1
73	1
80	1
81	1
	12

Ten of the twelve cases were over the age of fifty years.

Deaths from Tuberculosis for Certain Years with Rates per 100,000 Population
Winnipeg Residents
(City Population 252,000 in 1967)

Year	Number	Rate per 100,000
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
1965	5	2.0
1966	8	2.0
1967	12	4.7

New Active Cases of Tuberculosis

There were sixty new cases of tuberculosis in 1967, seven less than the previous year. Mass surveys are no longer an important source

of new cases. Hospitals, clinics, private physicians and above all investigation of contacts of new cases are the most fruitful avenues of discovery of new tuberculosis cases. I suspect, however, that the "inaccessible individual" is still an important hidden focus of tuberculosis. Fewer cases will remain undetected in the future if we develop a method to reach these inaccessible people and bring them in for screening.

New Cases of Tuberculosis with Rates per 100,000 Population for Winnipeg 1959-1967

Year	New Cases	Rate per 100,000 Population	Found on Surveys
1959	79	26.5	4
1960	45	17.4	4
1961	68	26.4	3
1962	65	25.3	4
1963	74	28.8	6
1964	67	26.2	4
1965	64	25.1	1
1966	67	26.4	4
1967	60	23.3	5

Tuberculosis New Active Cases and Reactivations by Age Groups 1967

Age Group	New	Reactivations
0 - 4	3	-
5 - 14	3	2
15 - 24	8	-
25 - 39	13	3
40 - 59	15	4
60 - 79	14	3
80 and over	4	-
	60	12

Newly discovered cases ranged in all age groups but most of them were adults.

In 1967 there were twelve cases of reactivations of tuberculosis between those already known to us as having had tuberculosis in the past.

If one ever had tuberculosis before, he is at a much greater risk of developing disease again than the average person. Hence the importance of following very closely all those having a previous tuberculosis file to ensure that the disease remains quiescent. If a recurrence was in the process of developing it would thus be discovered at an early stage and treated promptly to prevent further lung damage or spread to others. Our Public Health Nurses follow the cases of these people closely, ensuring (in most cases) that medical examinations are carried out as requested by the physician in charge. This is not the easiest job in the world and repeated visits, letters etc. may be needed to accomplish the task.

How New Active Cases and Reactivations were Discovered

	New		Reactivations
General Hospital	33		5
Private Physicians	9		-
Community Surveys	5	(2 out of City)	-
Chest Clinics	12	(6 were contacts of active cases)	6
Vital Statistics	1		1
	60		12

Classification of New and Reactivated Cases for 1967

Note that not all cases are "minimal" at time of discovery.

	New Cases	Reactivations
PULMONARY		
Primary	4	-
Minimal	17	2
Moderately Advanced	6	1
Far Advanced	10	5
Unclassified	2	-
Total	39	8

EXTRA PULMONARY	New Cases	Reactivations
Pleurisy	4	-
Glandular	6	2
Renal & Genital	4	1
Bone	3	-
Meningeal	2	-
Miliary	1	1
Peritonitis	1	-
Other	-	-
Total	21	4

TUBERCULIN SKIN TEST AND CHEST X-RAY SURVEYS IN WINNIPEG IN 1967

	Chest X-rays	Tbcn. Tests	Tests Read	Number Positive	Number Negative
*Schools	2,757	13,628	12,850	649	12,201
%		100	94.2	5.0	95.0
Colleges	712	2,518	2,415	206	2,209
%		100	95.9	8.0	92.0
*Industries	863	1,855	1,726	381	1,345
%		100	93.0	22.0	78.0
GRAND TOTAL	4,332	18,001	16,991	1,236	15,755
%		100	94.4	7.3	92.7

*Findings in schools

1 case Pulmonary T.B. Minimal, Active, Non-bacillary

1 case Miliary T.B. Active, Bacillary

*Findings in industries

1 case Pulmonary T.B. Minimal, Active, Positive Culture

CHEST X-RAY SURVEYS IN WINNIPEG IN 1967

	Number	New Active Cases
Industries	5,769	
Red River Exhibition	1,261	
Nursing Homes (Metro Winnipeg	3,080	
Canada Manpower Commission	3,723	
Central T.B. Clinic Survey Unit	2,657	
TOTAL	16,490	

TUBERCULIN SKIN TEST AND CHEST X-RAY SURVEYS IN WINNIPEG IN 1967

	Chest X-rays	Tbcn. Tests Read	Tests Positive	Number Negative
Schools	2,757	13,628	649	12,201
%		100	5.0	95.0
Colleges	712	2,318	206	2,209
%		100	8.0	92.0
*Industries	863	1,855	361	1,345
%		100	22.0	78.0
GRAND TOTAL	4,332	18,001	1,256	15,755
%		100	7.3	92.7

*Findings in schools

1 case Pulmonary T.B. Minimal, Active, Non-Ambulatory

1 case Miliary T.B. Active, Bacillary

*Findings in industries

1 case Pulmonary T.B. Minimal, Active, Positive Culture

CHEST X-RAY SURVEYS IN WINNIPEG IN 1967

	Number	New Active Cases
Industries	5,769	
Red River Exhibition	1,261	
Nursing Homes (Metro Winnipeg	3,080	
Canada Manpower Examination	3,723	
Central T.B. Clinic Survey Unit	2,657	
TOTAL	16,490	

TUBERCULOSIS CASES REGISTER SUMMARY REPORT

Winnipeg Health Department for one year period ending March 12th, 1968

SECTION 1 Status of Cases in Register at End of Reporting Period

A. Supervision of Registered Cases. Total Cases in Current File..... 851

1. Cases currently hospitalized for T.B..... 26
2. Cases not hospitalized for T.B..... 825

B. Cases not hospitalized for T.B.

	Total	Active	Act. Undet.	Inactive
Total Cases	825	39	23	763
1. By Clinical Activity and Recency of Examination				
Total Cases	825	39	23	763
Not over due for exam.		34	11	526
Over due for exam.		5	12	237

2. Cases with drug therapy prescribed..... 122

SECTION II Shift in Case Load During Past Year

C. T.B. Cases in Current File at beginning of Period..... 729

D. T.B. Cases added to Register During Period..... 128
1. New Diagnosed Cases..... 77
New Active Cases including reactivations..... 72
New Inactive Cases..... 5

2. Cases returned to Current File from Closed File..... Not Counted
(Excluding clinically reactivated cases)

3. Transferred in to Winnipeg..... 20

4. Immigrants..... 31

E. Total T.B. Cases in Registry during period..... 1,338

F. Cases Transferred to closed file during period..... 487

1. T.B. Deaths..... 12
2. Non T.B. Deaths..... 13
3. Inactive - Transferred to Central T.B. Registry Supervision.....321
4. Diagnosis changed to non-T.B. disease ..... Not Counted
5. Lost - unable to locate..... 40
6 Moved out of city..... 101

G. Total cases in School Children in active case registry 58

H. T.B. Cases in Current File at end of period..... 851

HOSPITAL TREATMENT OF NEW ACTIVE T.B. CASES AND REACTIVATIONS IN 1967

Total No. of New Active and Reactivations in 1967..... 72

1. No.hospitalized for T.B. treatment..... 54
2. No. deceased in hospital or at home without treatment for T.B..... 8
3. No. not admitted for treatment..... 10

*Average stay in hospital for treatment.....3.0 months

Treated in hospital less than 2 months..... 11
Treated in hospital from 2 - 4 months..... 20
Treated in hospital from 4 - 6 months..... 15
Treated in hospital over 6 months..... 8
54

* 6 cases admitted in 1967 are still in hospital

T.B. OUT-PATIENT CHEMOTHERAPY IN 1967

Total No. on O.P.D. chemo in 1967..... 226

No. of T.B. patients on O.P.D. chemo during 1967.....193
No. of T.B. contacts on O.P.D. chemo during 1967..... 33
226

Total No. of T.B. patients and contacts discontinued chemo during 1967..104

No. of patients completing chemo..... 61
No. of contacts completing chemo..... 17
*No. of patients not completing chemo..... 26
104

* Reasons for not completing chemo
Left City..... 15
Unable to locate..... 5
Unco-operative..... 4
Unable to tolerate drugs..... 2
26

Total No. of persons still on O.P.D. chemo at end of 1967..... 122

No. of T.B. patients still on O.P.D. chemo at end of 1967..... 106
No. of T.B. contacts still on O.P.D. chemo at end of 1967..... 16
122

Grand Total..... 226

REPORT OF REGISTRY OF T.B. CONTACTS OF ACTIVE CASES DIAGNOSED IN 1967

Total No. of Active Cases Diagnosed in 1967	72
Total No. of New Active Cases	60
Total No. of Reactivated Cases	12
Total No. of Newly Diagnosed Cases with contacts identified	54
Total No. of Contacts identified	239
Total No. of Contacts examined	186
Total No. of Tuberculin reactors found	44
Total No. of Tuberculin reactors put on prophylaxis	11
Total No. of New Active Cases found among contacts	6 or 2.5%
Total No. of Old T.B. cases among contacts	7

REPORT OF REGISTRY OF T.B. CONTACTS, T.B. SUSPECTS, T.B. IMMIGRANTS

No. of T.B. contacts - Positive tuberculin reactors	158
No. of T.B. contacts among school children	61
No. of T.B. suspects	11
No. of Immigrants reported to City with previous history of T.B.	161

Some Observations Regarding Treatment and Supervision of Tuberculosis Patients and their Contacts by the City Health Department in 1967

The control and eventual eradication of tuberculosis is dependant upon the early detection and treatment of the T.B. patient as well as the searching out and examining of all close contacts of active T.B. cases, so that those who have become infected may be given prophylactic chemotherapy and examinations at regular intervals for any signs of disease which may require treatment.

In the City of Winnipeg in 1967, 60 new active cases of tuberculosis as well as 12 reactivated tuberculosis cases were diagnosed and put on active treatment - 47 were pulmonary cases.

A registry of the contacts of these newly diagnosed active and reactivated tuberculosis cases was maintained at Central Office. A total of 239 contacts were identified and of these 186 were examined, with the result that 6 were diagnosed as new tuberculosis cases. Seven were found to be old tuberculosis cases and 44 were found to be positive tuberculin reactors. Eleven of the reactors were put on prophylactic INH treatment.

Note that only 186 of 239 identified contacts eventually came and were submitted to an examination. Fifty-three contacts or 22% of the total number identified and in spite of all efforts made by the City Health Department, were not eventually examined. This is a lot to miss but, surprisingly, the figure is not in great discrepancy with that observed in other centres. Moving, reluctance to lose pay from work for clinic attendance but, above all, personal resistance were the principal factors for failure to bring these people in.

The fact, that among the mass tuberculin surveys done in the city in 1967, 18,000 tests were done and only 3 new tuberculosis cases were discovered, whereas, the examination of 186 close contacts of active tuberculosis cases yielded 6 new cases, only proves once more that the diligent searching out and examination of the close tuberculosis contact is the most productive source of tuberculosis case finding.

Among the 44 positive tuberculin reactors, a fair number were found in children which seems to indicate the importance of tuberculin testing in children as an effective method of case finding.

The supervision of over 1,200 cases of inactive tuberculosis formed the bulk of the public health nurse's case-load. As indicated in the report, many of these patients did not attend for regular medical examinations in 1967, in spite of repeated home visits, phone calls and letters from the nurses.

The City Public Health Nurses reported in 1967:-

628 home visits to 312 tuberculosis cases
772 home visits to 398 tuberculosis contacts

These figures did not include the repeated telephone contacts and letters that were written to remind patients and their families to attend their doctor or the Central Tuberculosis Clinic for their examinations.

Some of the factors which interfere with the regular supervision of the tuberculosis patient as well as involving the public health nurse in a considerable loss of visiting time are:-

1. The mobility and loss of address of many itinerant patients and families. For example, many Indian and Metis families move in and out of the City on a seasonal basis. In some instances considerable treatment time is lost before the patient is found.

   As many of this type of families are receiving services from several health and welfare agencies in the community, it would be of great assistance to have them registered at a Central Registry and thus assist in having their addresses current. At present every known change of address is reported to the Central Tuberculosis Registry in an effort to keep the patient under supervision.

   Over 40 patients moved into the City of Winnipeg in 1967 and 141 moved out of the City or were lost to follow-up.

2. Difficulties in getting the patient examined.
   a) Many patients are working and find it difficult to attend clinics during the day.
   b) Some patients insist in being supervised by their own physician. This wish is respected but many do so very irregularly and it is only with great effort that the nurses are able to have them examined for their tuberculosis.

Out-Patient Treatment of Patients on Chemotherapy

Of the 72 new diagnosed active tuberculosis cases and reactivations which were discovered in the City in 1967, only 54 were hospitalized and 10 were not admitted for treatment. Of those hospitalized, the average stay in hospital was 3.0 months and 31 patients remained less than 4 months.

As the average period of treatment is from 18 months to 2 years, the out-patient management of treatment for the tuberculosis patient on chemotherapy has become increasingly important. Also the fact that our nurses are not directly a part of the Clinic where the patients are treated poses some additional difficulties as in the eyes of many patients the nurse appears to have little authority invested in her and is perhaps regarded as a messenger in getting the patient back to the Clinic for examinations or refill of his drugs.

SUMMARY

During 1967, we had twelve deaths from tuberculosis in the City of Winnipeg, sixty new active cases and twelve reactivations.

Our most important contribution in the tuberculosis control field has been the investigation of new cases and ensuring an adequate follow-up of more than 1,000 patients listed in our files as having had the disease in the past. Supervision of treatment at home has also become a prime concern of public health. This responsibility has increased as more tuberculosis patients are now being treated with chemotherapy on an out-patient basis.

Our greatest difficulty remains our inability to convince all contacts and ex-patients that examinations and regular follow-ups are necessary; whatever methods of persuasion are to be used, 100% success cannot be achieved but we are trying to ensure follow-up in as many cases as is humanly possible.

Our department extends its thanks and appreciation to the Sanatorium Board of Manitoba, without the basic work and help of which no tuberculosis fighting program would be possible. The clinical and public health measures can only be effective if they are supplementing each other, and cooperation between these two bodies was excellent in 1967, as it has always been in the past. We also wish to thank all those who assisted our work during the year, especially the public health nurses and our health inspectors, who spared no efforts to ensure first quality performance.

CHILD DENTAL SERVICES

The Dental Branch of the City of Winnipeg Health Department is geared to four major objectives:

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

1. Dental Health Education:

In this area the major emphasis of our program is directed at the primary school children and their parents up to and including the grade 3 level. This is accomplished in a number of ways, the following of which are outlined below:

a) Classroom dental inspections of all children (grade III and under) attending a school in the City of Winnipeg School Division No. 1, plus 7 parochial schools.
b) Notification to the parents or guardian of the results.
c) Talks, lectures, and demonstrations to all children examined in classrooms by the dentist or dental hygienist.
d) Distribution of dental health posters, pamphlets, and teaching aids to all classrooms inspected.
e) Continuing this education in our clinics of patients accepted for dental treatment.

The probable success of any dental health program would depend on creating an interest, motivating people to action, and then attempt to maintain improvements on a sustaining basis. This, I may add, in the dental health field seems to be a never ending struggle. Even in this day and age there exists in our community too many people with little or no appreciation of what good dental health means to the individual. The battle against dental decay must of necessity fall into two main areas, the foremost of which is prevention, and failing that, repair. Success will only be achieved if we direct our major attack on prevention.

On December 28, 1956 the City of Winnipeg and suburbs took a giant step forward in the prevention arena with the fluoridation of their water supply. Since 1965, a sample of seven-year-old children born and raised in Metro Winnipeg has reached a constant of 67% reduction in the D.M.F.T. rate. (see Table II & III). Future inroads must be made through dental health education and would involve the following:

a) application of topical fluorides
b) using a dentifrice containing stannous fluoride
c) reduction of in-between meal snacks (nutrition)
d) practicing good oral hygiene habits
e) regular visits to a dentist.

To help achieve the victory over dental decay there must also be a great deal of co-operation by all concerned, not only health personnel, but by the teachers, parents, children, etc. It is hoped that the acquired knowledge and training of good dental habits in this younger age group will provide a solid foundation for their future oral health. Human nature being what it is, this foundation must be kept strong through constant re-education and instruction.

A further step for the City of Winnipeg in the field of prevention came with the addition of two dental hygienists in July of 1967. The additional assistance we have received through their services has provided our dental branch with much needed impetus in our cause.

The supplementary dental health program was continued during the 1967-68 school term. Dental health material (posters, pamphlets, teaching outlines, letters) supplied by a large commercial concern was distributed to all inspected classrooms. Once again all grade 3 pupils received a dental health kit (toothbrush and toothpaste).

Participation in our program of various associated groups e.g. 4th year dental students, 2nd year dental hygiene students, student nurses from a local hospital, we hope, has given these people some appreciation of the problems we encounter in the dental public health field.

During the year contributions in the form of public health lectures were given to students at the Dental College and School of Dental Hygiene. An orientation course for new public health nurses on the City of Winnipeg staff is an annual affair. An in-service training program for all dental staff was again held on the first school day in September. Throughout the year staff dentists attend certain clinics conducted by the local dental society relating to our type of work in order to keep abreast of new developments.

Dental public health in our city has certainly come of age in the last decade. Continued co-operation between allied health workers and the constant education of the public-at-large must not be relaxed in the battle against dental disease.

2. Studies of the Local Dental Health Problems.

Information through statistics collected during our annual inspection of classrooms indicate certain developing trends in the oral health of the children in Winnipeg.

The limitations of our dental resources necessitates a definite treatment service policy. Dental emergencies are given priority and include all children who are in full time attendance at any of the schools in the City of Winnipeg. Those children attending school whose families are on city welfare are also eligible for our service, in addition to children up to and including grade 3 whose families are deemed as "medically indigent" by the school nurse, or approved through an application form. Regular maintenance care through recall examinations for cooperative and interested patients is of vital importance in our program. Failure rates are kept to a minimum. (Average - all clinics 1966 - 7.4%: 1967 - 6.4%).

Throughout 1967, a policy was instituted in all clinics to shift the emphasis for new and recall appointments on the "family unit". Previously, a direct contact by telephone was used to book these patients. In 1967, a letter was sent to the family asking them to make their own appointments. The resultant decline of active welfare recepients listed below from 1966 to 1967, is probably a direct result of this change in policy. In the light of these facts it again becomes clearly evident that re-education of the population as regards good dental habits is a never ending struggle.

Welfare Children on Active Files

1959	345	1964	1,576
1960	659	1965	1,925
1961	852	1966	1,753
1962	877	1967	1,356
1963	1,328		

Two Sociological studies on Local Dental Health Problems were carried out during the year in the City of Winnipeg. The Dental Branch assisted in the program conducted by the Department of Sociology and the Dental School of the University of Manitoba in an attempt to gain;
1) reliable information about dental needs and dental services, and
2) the influence of social class and other selected variables upon the dental attitudes and knowledge of parents and the dental caries experience of their children.

3. Utilization of Public Health Measures:

a) Analysis - Classroom Dental Inspection

Table I is a compilation of statistical information collected during the school terms from 1959 - 1967. Favourable progress can be seen in many areas during the past 8 years, and it will be noted that in some columns a constant is being reached. The percentage of increase in the caries immune columns (Kindergarten - 14% to 33%: Gr. 1 - 6% to 22%: Gr. II - 3% to 15%) must, of necessity, be mostly attributable to the benefits of fluoridation. Of all children examined during 1966 - 67, 12% (1,862) were approved for treatment at the clinics. This figure is significant in projecting the requirements that would be necessary if this service is to be extended into higher grades.

b) D.M.F.T. (Decayed, Missing Filled Teeth - Permanent) (Special Survey)

Table II reflects the information on a sample of children born and raised in the Metro area of Winnipeg. Data was assimilated during regular classroom inspections; subjects selected on the basis of every tenth child according to the alphabetical listing of children in the school index card register. The 7 year old group of children showed a constant of 67% reduction in the D.M.F.T. rate. The average D.M.F.T. decrease in all groups (7, 9, 11 and 13) increased during the 9 years study to 56%. A standard error in a study such as this is inescapable due to the amount of examiners used, nevertheless the chief factors for this marked improvement must be fluoridation, education, and readily available dental care.

Table III is a breakdown of data from 1958-67 compiled on the samples of seven year old children born and raised in Metro Winnipeg. During the past three years the average reduction in the D.M.F.T. rate from the 1958 figure has been 67%. The first major offensive (Fluoridation) against dental decay has been a resounding success.

4. Dental Services

(A) Dental Clinics.

Dental treatment is provided at the following school clinics:
1) Dufferin School - 3 operatories (Emergency Clinic)
2) William Whyte School - 2 operatories
3) King Edward School No. 2 - 2 operatories
4) John M. King School - 2 operatories.

Dental clinics are located in strategic areas of the school system in order to conveniently provide service for the bulk of eligible patients. Emergency treatment for all school children (no economic or age barrier) is now provided at the new Dufferin Dental Clinic at any time during regular school hours. All clinics are in operation the entire year, including July and August. Through the co-operation of the Winnipeg School Division No. 1, who generously supplied the accomodation for a new dental clinic, and money received from a National Health Grant to furnish new equipment, the Dufferin Clinic came into existence on October 2, 1967, replacing the old William and Ellen Clinic.

(B) I Treatment - Dentists

In 1967, 4,984 children were treated during the course of 13,889 patient visits to the clinics. Patients completed and provided with maintenance dental care to the extent of facilities available totalled 3,237 or 63%. 11,892 individual teeth were attended and of these 2,330 were removed and 9,562 teeth were restored to healthy functioning units. Fifty percent of the patients accepted on an emergency basis were 10 years of age or over and would probably account for a majority of teeth extractions. Preventive and conservative dental procedures are emphasized in the mangement of each patient. In all clinics, comprehensive treatment is arranged for approved children. Minor orthodontia can be attempted at all clinics on interested and co-operative patients. Complicated and/or advanced cases may be referred to the Dental College for post-graduate students in that particular field.

(B) II Treatment - Hygienists.

In July, the City of Winnipeg was fortunate enough to hire two staff hygienists. Their contribution in the dental operatory is outlined in Table V. A good portion of their time is spent on School Survey and classroom dental inspections. Through this medium they play a vital role in our program in the area of dental health education and prevention.

(C) Recall System

Continual treatment coverage is extended to a large number of children from co-operative and interested families by our periodic recall system. Regular maintenance care has resulted in an increased number of children receiving benefits over a longer period of time.

Failed appointments are of major concern and precautions are taken to eliminate many of the causative factors. In 1967, out of the 17,274 assigned appointments (Dentists & Hygienists), 1,092 or 6.3% had failed (7.2% in 1966). One hundred and forty-seven (147) of these failed appointments were new patients. The advantage of having clinics located in select schools permits immediate replacement from within the school, thus reducing lost dental manpower hours to a minimum. Nine-hundred and fifty-eight patients cancelled (5.5%) and arranged another suitable time. Courtesy of advising the clinics in advance of inability to keep an appointment would suggest that our service is appreciated.

(D) Handicapped Children

Provision of dental services for mentally retarded children attending a special school (Kinsmen) in the City was continued in 1967. Transportation for eligible patients was again arranged by the School to one of our dental clinics. However, in September of 1967 the majority of all students at the special school were incorporated into 6 regular schools throughout the city. The responsibility for transporting these patients must now, of necessity, be placed on the family unit. In our experience we have found that nearly all mentally retarded children can be treated using normal dental procedures. The main problem is to provide these families ways and means to obtain dental services, followed by a program to motivate the parents to take further action in improving the child's dental health.

(E) Adult Dental Services

The Winnipeg General Hospital Welfare Dental Clinic continued its operation throughout the year under the combined guidance of the University of Manitoba Dental College and the City of Winnipeg Dental Branch. The clinic is located in the Out-Patients Department and is in operation only in the afternoon. This program, available for adult welfare and medico-dental indigents in Manitoba, includes preventive, and restorative dentistry to interested and co-operative patients. The clinic is financed by the Manitoba Hospital Commission. Resident patients of the City of Winnipeg are provided with appliances (dentures, partials, etc.) by the Health Department where indicated.

(F) Dental Staff

The Dental Branch includes a director, plus a professional establishment equivalent to six full time dentists, two dental hygienists, and eight qualified dental assistants. During the last quarter of 1967, five dentist (plus the Director) were retained on full time staff. Throughout the year ten (10) dentists were employed on a sessional fee basis. The addition of two staff hygienists in July was greatly appreciated, and has released, to a great extent, the dentists for work more suitable to their capabilities.

Table I

Class Room Dental Inspection Information compiled by the City of Winnipeg Dental Branch, on the general child population attending Kdg., Gr. I, II, and III in the Wpg. School Div. No. 1.
(Permanent and Deciduous Dentition)

	School Term	Total Inspect.	Percentage of Children										
			Caries		Dentistry Completed	Caries	Extrac-tions	Filled	Attend Dentist	Applied Dentistry	Request Dentistry	Approv-ed.	Nil Int.
			Imm.	Free									
Kinder-garten	1959-60	3,322	14	23	9	77	15	27	59	37	13	10	12
	1960-61	3,026	18	34	16	66	13	28	47	36	12	11	11
	1962-63	3,539	31	45	14	55	8	24	38	30	14	11	12
	1964-65	3,581	28	43	15	57	11	28	48	33	14	12	18
	1966-67	3,448	33	48	15	52	10	25	57	29	26	13	17
Grade I	1959-60	4,381	6	16	10	84	28	40	72	57	25	21	8
	1960-61	4,686	9	25	16	75	27	40	64	55	21	20	8
	1962-63	4,555	16	37	21	63	23	40	63	51	21	19	9
	1964-65	4,668	18	36	18	64	22	39	63	49	22	20	14
	1966-67	4,518	22	44	22	56	20	38	61	46	27	14	12
Grade II	1959-60	4,054	3	12	9	88	43	49	-	70	-	-	-
	1960-61	3,916	6	25	19	75	39	53	-	70	-	-	-
	1962-63	3,958	10	37	27	63	36	55	-	70	-	-	-
	1964-65	3,955	11	34	23	66	33	54	74	67	24	17	17
	1966-67	3,722	15	43	28	57	29	53	69	62	21	10	10
Grade III	1964-65	3,635	8	34	26	66	39	62	80	74	22	19	17
	1965-66	3,470	10	44	34	56	36	62	75	70	15	12	8
	1966-67	3,832	12	42	30	58	34	58	71	68	19	10	10

Definition of Terms:-

- Caries Immune - no visible evidence of caries in the decid. or perm. teeth; X-ray not used.
- Caries Free - includes caries immune plus children whose dentistry has been completed.
- Dentistry Completed - children who attended a dentist and were in optimum dental health at time of inspection.
- Caries, Extractions, Filled - percentage of children with these conditions.
- Attend Dentist - as indicated by presence of extraction, or filling, or reported on questionnaire. Does not include caries immune.
- Applied Dentistry - as indicated by the presence of a filling or premature extraction or both.
- Request Dentistry - a written request for dental treatment.
- Approved - eligible for free dental treatment (screened by school nurse)
- Nil Interest - questionnaire not returned.

NOTE: The following school terms have been deleted for purposes of clarity; 1961-62; 1963-64; 1965-66.

Table I

Class Room Dental Inspection Information compiled by the City of Winnipeg Dental Branch, on the general child population attending Kdg., Gr. I, II, and III in the Wpg. School Div. No. I.
(Permanent and Deciduous Dentition)

	School Term	Total Inspect.	Percentage of Children								
			Caries Dem.	Caries Free	Dentistry Completed	Caries	Extrac-tions	Filled	Attend Dentist	Applied Dentistry	Request Dentistry	Approv-ed.	Intl.
A	1959-60	3,252	14	23	9	77	15	27	59	27	13	10	12
B	1960-61	3,024	10	34	16	66	13	28	47	36	12	13	11
C	1962-63	3,150	11	42	11	55	8	24	38	30	14	13	12
D	1964-65	3,028	14	29	15	57	11	28	48	33	14	12	16
E	1966-67	3,082	11	32	15	53	10	24	37	29	20	13	17
A	1959-60	4,301	6	16	10	84	28	40	72	57	25	21	6
B	1960-61	4,086	9	25	14	75	27	40	64	55	23	20	8
C	1962-63	4,552	16	37	24	63	25	40	63	51	21	19	9
D	1964-65	4,666	18	36	18	64	26	36	63	49	22	20	10
E	1966-67	4,512	23	44	22	56	20	34	61	46	27	14	12
A	1959-60	1,203	3	12	9	88	43	45	-	29	-	-	-
B	1960-61	3,324	6	25	14	75	29	53	-	30	-	-	-
C	1962-63	3,958	10	37	27	63	36	54	-	38	-	-	-
D	1964-65	3,990	14	36	23	66	33	54	74	47	26	17	17
E	1966-67	3,752	15	43	28	57	29	53	69	62	21	10	10
A	1959-60	3,635	8	34	26	66	39	69	80	74	22	19	17
B	1960-66	3,470	10	44	34	56	36	62	75	70	15	12	8
D	1966-67	3,892	12	42	30	58	34	58	71	68	19	10	10

Definition of Terms:

- Caries Immune - no visible evidence of caries in the dentin, or pulp, bestbi X-ray not used.
- Caries Free - includes caries immune plus children whose dentistry has been completed.
- Dentistry Completed - children who attended a dentist and were in optimum dental health at time of inspection.
- Caries, Extractions, Filled - percentage of children with these conditions.
- Attend Dentist - as indicated by presence of extraction, or filling, or reported on questionnaire.
  Does not include caries immune.
- Applied Dentistry - as indicated by the presence of a filling or premature extraction or both.
- Request Dentistry - a written request for dental treatment.
- Approved - eligible for free dental treatment (screened by school nurse)
- Intl Interest - questionnaire not returned.

NOTE: The following school terms have been deleted for purposes of clarity 1961-62; 1963-64; 1965-66.

Table II

School Dental Examinations of Children
born & raised in Metropolitan Winnipeg
(Permanent Teeth Only)

Year	Age 7		Age 9		Age 11		Age 13	
	Number Exam.	Average D.M.F.T. per child	Number Exam.	Average D.M.F.T. per child	Number Exam.	Average D.M.F.T. per child	Number Exam.	Average 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
1965	190	.6	180	1.7	153	2.9	50	4.5
1966	183	.7	178	2.1	200	3.0	53	4.6
1967	227	.7	233	1.9	180	2.5	62	3.7

1958, 1960 single examiner, selected schools (high, medium & low income)
1961 5 examiners, random sample
1962 6 examiners, random sample
1963 8 examiners, random sample
1964 10 examiners, random sample
1965 8 examiners, random sample
1966 7 examiners, random sample
1967 6 examiners, random sample

Table III

A sample of seven-year-old children born and raised in Metro Winnipeg showing prematurely lost, destroyed crowns, other caries and restored permanent teeth.

Year	Children Examined	Prematurely lost	Crowns Destroyed	Other Caries	Restored	Average D.M.F.T.
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
1965	190	0.00	0.00	0.25	0.37	0.6
1966	183	0.00	0.00	0.42	0.27	0.7
1967	227	0.00	0.00	0.35	0.30	0.7

Table II

School Dental Examinations of Children
Born & raised in Metropolitan Manila
(Permanent Teeth Only)

Year	Age 7		Age 9		Age 11		Age 13	
	Number Exam.	Average D.M.F.T. per child	Number Exam.	Average D.M.F.T. per child	Number Exam.	Average D.M.F.T. per child	Number Exam.	Average D.M.F.T. per child
1958	106	2.1	60	3.8	49	4.2	81	8.3
1960	81	1.6	109	3.1	110	6.5	110	7.9
1961	221	1.4	192	2.7	178	6.3	44	6.0
1962	278	1.0	236	2.6	233	3.9	73	5.5
1963	243	.8	229	2.4	217	3.4	67	5.8
1964	236	1.0	276	2.3	214	3.4	57	4.5
1965	190	.6	180	1.7	153	2.9	50	4.5
1966	183	.7	178	2.1	200	3.0	53	4.6
1967	227	.7	233	1.9	180	2.5	69	3.7

1958, 1960 single examiner, selected schools (high, medium & low income)
1961 5 examiners, random sample
1962 6 examiners, random sample
1963 8 examiners, random sample
1964 10 examiners, random sample
1965 8 examiners, random sample
1966 7 examiners, random sample
1967 6 examiners, random sample

Table III

A sample of seven-year-old children born and raised in Metro Manila showing prematurely lost, destroyed crowns, other caries and restored permanent teeth.

Year	Children Examined	Prematurely lost	Crowns Destroyed	Other Caries	Restored	Average D.M.F.T.
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	0.07	0.31	1.0
1963	243	0.00	0.00	0.53	0.29	0.8
1964	236	0.00	0.00	0.63	0.23	1.0
1965	190	0.00	0.00	0.25	0.37	0.6
1966	183	0.00	0.00	0.42	0.27	0.7
1967	227	0.00	0.00	0.35	0.30	0.7

Table IV
Summary of Dental Treatment Groups
Dentists and Dental Hygienists
Number of Children 1967

	AGE								
	Preschool	5	6	7	8	9	10	Older	Total
A. Patients notified of Appointments	D. 188 D.H. 28	261 33	428 40	562 55	609 49	663 60	644 74	1,766 186	5,121 525 5,646
B. Failed Initial Appointment	D. 8 D.H. -	10 -	20 2	15 3	18 3	18 2	13 -	35 -	137 10 147
C. Completed Patients	D. 92 D.H. 13	145 17	229 -	345 12	398 7	468 10	473 16	1,087 -	3,237 75 3,312
D. Patients Recalled 6-8 months	D. 72 D.H. 29	167 48	286 64	399 99	457 106	574 133	652 149	1,475 368	4,082 996 5,078
E. Recalls - Completed 1st visit	D. 16 D.H. 8	65 19	94 14	118 22	124 29	178 44	214 51	428 90	1,237 277 1,514
F. Recalls - Failed Appointments	D. 3 D.H. -	4 1	13 6	21 4	21 5	18 6	22 8	64 31	166 61 227
G. Emergency Patients	D. 14	41	66	75	84	67	78	265	690

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. Completed Patients - Children from Section A receiving comprehensive dental treatment as provided by the clinics.

D. Patients Recalled (6-8 months) - following last appointment when completed, (1966-67).

E. Recalls - Completed 1st visit - includes children whose maintenance care is attended to during the recall examination appointment.

F. Recalls - Failed Appointments - 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
Dentists and Dental Hygienists
Number of Children 1957

	A G E							
	Preschool	5	6	7	8	9	10	Older	Total
A. Patients notified of Appointments	D. 188 D.H. 28	261 35	428 40	582 56	609 49	603 60	644 74	1,766 186	5,121 525
									5,646
B. Failed Initial Appointment	D. 8 D.H. -	10 -	20 2	15 3	18 3	18 2	13 -	35 -	137 10
									147
C. Completed Patients	D. 52 D.H. 13	185 17	229 -	345 12	395 7	460 10	473 16	1,407 -	3,237 75
									3,312
D. Patients Recalled 6-8 months	D. 72 D.H. 29	167 18	286 64	299 59	457 106	574 133	652 149	1,475 368	4,082 996
									5,078
E. Recalls - Completed last visit	D. 16 D.H. 8	65 19	94 34	118 22	124 29	178 44	214 51	428 90	1,237 297
									1,534
F. Recalls - Failed Appointments	D. 3 D.H. -	4 1	13 6	21 4	21 5	18 6	22 8	68 31	166 61
									227
G. Emergency Patients	D. 14	41	66	75	64	67	76	265	690

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. **Completed Patients** - Children from Section A receiving comprehensive dental treatment as provided by the clinics.

D. **Patients Recalled** (6-8 months) - following last appointment when completed, (1956-57).

E. **Recalls - Completed last visit** - includes children whose maintenance care is extended to during the recall examination appointment.

F. **Recalls - Failed Appointments** - 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 - 1967

	Dentists	D.H.	Total
X-rays (single film)	3,280	451	3,731
Exodontia - Deciduous Teeth	1,985		1,985
- Permanent Teeth	345		345
Anaesthetic (local)	8,261		8,261
Restorative - (Number Teeth Completed - Filled)			
- Deciduous	3,569		3,569
- Permanent	5,551		5,551
- Treatment Fillings	254		254
- Endodontics - Teeth completed	320		320
Crowns - Celluloid	7		7
- Stainless Steel	115		115
Space Maintainers	18		18
Prosthetic Appliances	14		14
Prophylaxis (Complete)	2,400	1,065	3,465
Topical Fluoride (Completed)	1,653	1,055	2,708
Fillings Polished	515	122	637
Parents Counselled	629	28	657
Other Treatments	5,773	1,150	6,923
Refused (non co-operative)	40	2	42
Total Number assigned Dental Appointments	15,743	1,531	17,274
Cancelled Appointments	867	91	958
Failed Appointments	987	105	1,092
Referred to Private Dentists	33		33
Recalls (6-8 months)	4,157	996	5,153
School Inspection Clinics	63	84	147
Classroom Dental Inspection (Approx. no. of children)		16,500	16,500

Table V

Analysis of Child Dental Services provided by City of Dunligan Health Department - 1967

PUBLIC HEALTH NURSING

Dramatic and complex "public" and "health" changes resulting from sociological and economic factors and technological and scientific advances in medicine are affecting the role and responsibilities of Winnipeg Public Health Nurses.

Services in the Homes

There appears to be an increasing number of poor families moving into Winnipeg. Public health nurses report a tremendous mobility of population in the economically poor areas of the City. One-parent families or families on limited or no income are constantly on the move from one depressed area to another making it difficult for public health nurses to maintain satisfactory relationships with them. Physical and mental illness, illegitimacy, alcoholism, school drop-outs, and juvenile delinquency are some of the prevalent problems nurses find in these families. In 1967, approximately 53 percent of the families visited by public health nurses were receiving public assistance. To deal with their many faceted health and social problems is time consuming and requires frequent, intensive and supportive assistance.

Public health nurses' caseloads also reflect the technological and scientific advances in medicine. New drugs and modern surgery, for example, are shifting the load of sickness into middle and later life and out of the hospital and into care in the home and in the community.

The care of the tuberculosis patient is an example of this shift. A decade ago the average stay in hospital for a tuberculosis patient was 2 years. Today it is 3 months; just long enough to be diagnosed and established on treatment. The responsibility for the tuberculosis patients' continued care and rehabilitation is then transferred to the public health nurse. The present-day treatment and management of mental illness is also creating a similar situation.

While public health nurses' activities are centered mainly on preventive services, there has been an increasing involvement with illness. Last year public health nurses visited 6,500 individuals in their homes because of physical or mental illness. For example, 850 people were suffering from chronic ailments such as diabetes, arthritis, cancer and heart disease while another 276 had a diagnosed mental illness. People want to know about anything that will make them well and keep them that way.

Early discharge of the infant from the hospital nursery increases the importance of careful appraisal of the newborn. It has also created additional responsibilities for public health nurses in recognizing the early and often subtle as well as the more classic and

definitive signs of anomaly, disfunction or disease and insuring that the children affected receive prompt medical attention.

The public health nurse's responsibility as a careful scientific observer and counsellor continues throughout the pre-school years. Many of the more subtle deviations of a congential origin may escape detection during infancy, while other conditions which might ultimately handicap a child may result from an illness or accident. For these reasons, public health nurses made 19,107 home visits to children under 4 years of age in 1967.

Services in Child Health Conferences

Child Health Conferences provide further opportunity to observe children who might have growth and development problems requiring medical attention. The importance of early recognition of strabismus is recognized if treatment is to be undertaken to prevent amblyopia. This is one of the defects looked for in children attending Child Health Conferences.

The early recognition of a child with a hearing defect is important, since in many cases treatment can prevent further deterioration in hearing. Screening children for hearing difficulties is therefore another procedure carried out at Child Health Conferences as part of the medical examination. Tests for phenylketonuria and immunizations are also routinely carried out at these Centres. Both doctors and nurses counsel mothers on normal growth and development. A very comprehensive record has been devised on which milestones of development for each child are recorded as well as other information concerning the child's welfare. Children with deviations from normal are referred for further and more extensive medical examinations. Last year 296 such referrals were made.

During 1967, the Health Department continued to operate 8 of these Centres in various areas of need throughout the City. Statistics indicate that 1,757 infants and 2,749 pre-school children were enrolled during the year. In April 1967, measles vaccine was added to the immunizing antigens administered at these Centres. A total of 9,601 inoculations to prevent diphtheria, tetanus, whooping cough and poliomyelitis were given and 590 children were vaccinated against smallpox.

In 1967, the Provincial Government Health Education Division printed attractive pamphlets for the City Health Department outlining the services offered at Winnipeg's 8 Child Health Conferences and urging parents to have their children inoculated privately or at one of these Centres. A supply of these pamphlets was given to each hospital in Metropolitan Winnipeg for distribution to obstetrical patients.

Nursing records indicate that only 39 percent of public recipient families with pre-school children attended Child Health Conferences in 1967 for medical supervision, yet public health nurses

frequently find children from these families who require treatment which has been neglected until a crisis arises requiring costly hospital care. Therefore, it would seem essential that a comprehensive health service combining preventive and curative medicine be established in clinics in the lower income neighborhoods. Public health nurses are convinced that such a program would improve attendance at Child Health Conferences, provide early treatment for defects, and be a more economical and efficient use of professional time.

Services to Child Caring Institutions

The need for well run day nursery facilities in Winnipeg has been recognized for some time. These facilities are needed particularly for children of sole-support mothers and for children coming from poor socio-economic groups who receive little or no intellectual stimulation at home. Such children show remarkable progress in their physical, emotional and social development under the guidance of an excellent day nursery teacher. This experience enables them to enter the school system without being at a tremendous disadvantage to the other children entering the school.

The lack of qualified nursery school personnel continues to be the greatest obstacle in expanding these facilities and in maintaining satisfactory standards. It is hoped that the pilot cause in nursery school methods, established at the Manitoba Institute of Technology in 1966, will continue and that eventually an adequate supply of well qualified nursery school educators will be available.

In 1967, a total of 1,457 children were enrolled in 4 day nurseries, 15 nursery schools, 7 child caring institutions, and 11 group foster homes. There was also approximately 300 children's boarding homes licensed by the City and supervised by the Health Department personnel during the year.

Meetings throughout the year continued between representatives of the Children's Aid Society, the Health Department, and the Health Committee over the use of unlicensed boarding homes by the Children's Aid Society and the Society's delay in dealing with reported cases of child neglect. It is hoped that these meetings will result in a better understanding of the role of each agency in meeting the needs of children.

Services to School Children

An extensive health service program for school children is maintained in Winnipeg schools by the Health Department. It is a co-operative activity involving parents, educators, private physicians, treatment agencies and the medical, nursing, and dental personnel of the Health Department. The basic goal is to maintain and improve the emotional and physical fitness for all children so that children will benefit from their education and become responsible citizens.

In 1967, one new school -- the R.B. Russell Junior Vocational School -- was opened, bringing the total number of public and parochial schools served to 98 with a population of approximately 52,000 pupils. Four more schools enrolled nursery school pupils in 1967, making a total of 8 schools with classes for four year olds. Also in 1967, for the first time, approximately 285 trainable mentally handicapped children were registered in Winnipeg public schools. These children were located in 5 different schools throughout the City. Adjustments in nursing schedules were made to meet the many health needs of these pupils.

To make the school program more effective and responsive to present-day problems, attention was focussed throughout the year on problems accompanying growth and development, adolescence and handicapping conditions. As many of these problems originate in infancy, special attention was given to pre-school entrance examinations.

In addition to encouraging parents to have these entrance examinations carried out privately, public health nurses arranged for pre-school children from medically indigent families to be examined in neighborhood schools in June or at the nearest child health centre. Defects found were corrected during the summer months so that in September 1967 approximately 68 percent of the new admissions to nursery or kindergarten classes had been examined and inoculated.

A child's ability to learn is closely related to the possession of normal vision. In Winnipeg schools, all pupils in elementary grades, as well as pupils in Grades 7 and 10, are given visual tests by teachers and public health nurses. In the past year, the vision of 44,515 pupils was tested for myopia. Of this number, 5,595 or 13 percent were referred for further medical attention. Approximately 3,666 or 66 percent of the pupils required glasses or a change in their prescription. Other pupils were asked to return for further examinations after a period of six months to a year.

In 1967, the Health Department purchased +1.75 lenses to use in screening pupils for hypermetropia. As this program was only commenced in September, the results of the tests will not be available this year.

For a number of years, the Winnipeg Health Department has carried out colour vision tests in the Technical Vocational School. The purpose of this test is to prevent boys from preparing for occupations for which a colour vision defect might render them unsuitable. In the past year, 226 boys were given an individual pseudo-isochromatic colour vision test by a public health nurse. Two percent or 4 boys failed the test in 1967.

Eighty-six schools were visited and revisited one month later by the audiometer nurse to test and retest the hearing of all pupils in Grade 1. In addition, referrals from teachers, parents,

school nurses, and doctors were tested. A total of 8,901 individual tests were given. Three hundred and ninety-eight or 6 percent were referred for further medical attention. The follow-up of these referrals by public health nurses indicated that:

112 were diagnosed as an organic defect
186 were diagnosed as a temporary defect
39 had no defect
46 were awaiting diagnosis
8 moved away undiagnosed
4 parents refused to co-operate
3 were placed in a special class

Each year public health nurses keep close surveillance on the health of approximately 1,400 school children with serious handicapping problems such as diabetes, epilepsy, cardiac, asthmatic, neuromuscular, and orthopaedic conditions, growth problems and serious visual and hearing impairments. Their reports on both old and new cases form the basis for the Central Office Handicap Registry and are the means by which private and clinic doctors are kept informed about any difficulties these children are having in the classroom.

In addition to the above handicapped children, the Winnipeg public schools now have approximately 285 trainable mentally handicapped children enrolled in 5 different schools. The majority of these children previously attended a private school known as the Kinsmen School for Retarded Children, and were believed to have been thoroughly investigated medically. After reviewing 200 files on these children in September 1967, it was decided that there was insufficient up-to-date health information on most of the children and if these children were going to be looked after intelligently, this information would have to be obtained. Accordingly, a medical form was drawn up and together with a letter of instructions was mailed to the parents of these children. The response to date from both parents, and private and clinic doctors has been excellent and it is expected that soon after the new year, all these children will have received a thorough medical examination.

Immunization statistics reflect the adequacy of pre-school child health supervision. Indications are that local school children have a fairly high degree of immunity as only 7.74 percent of Kindergarten and Grade 1 children entering Winnipeg schools for the first time in 1967 had no primary inoculations. Four percent of these new admissions came from outside of Winnipeg.

During 1967, the public health nurses arranged for 7,235 pupils in Grades 1, 4 and 7 to be given a reinforcing dose of diphtheria toxoid and tetanus vaccine and oral sabin poliomyelitis vaccine. This was 53 less than in 1966.

There was an increasing incidence of minor skin infections such as impetigo, scabies and ringworm in 1967. Public health nurses

reported 2,795 cases, an increase of 493 over 1966. There was also 408 pupils infected with pediculi. This is a slight increase over the number of cases reported in 1966. All infected pupils received the close observation and attention of public health nurses. Further details on the public health nurses' involvement with communicable diseases will be found in other sections of the Report.

Early in 1967 public health nurses became more involved with pupils who were making a practice of inhaling glue and nail polish solvents. No statistics were kept to indicate the prevalence of this practice. However, since cases were reported from schools in all four nursing districts, it appeared to be a City-wide problem involving boys and girls mainly from junior high schools who were below average students and who came from broken homes and were known behaviour problems.

The possible harmful effects of this practice were pointed out to these pupils and their parents by both public health nurses and school personnel. A school doctor, who is also Director of the Children's Hospital Poison Control Centre, met with school personnel and prepared written information about this problem for their use.

More than 90,000 pupils were referred or sought advice from the public health nurses during the year. The nurses not only dealt with each pupil, but they also counselled and supported each member of the school staff in the management of health problems within the school. A review of the tables that follow this report will indicate the extent and variety of school nursing appraisals in 1967. 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.

Service to Expectant Parents

In the past year a request to have public health nurses conduct pre-natal classes for clinic patients at the Maternity Pavilion of the Winnipeg General Hospital was made to the Medical Health Officer by the Medical Director of the Obstetrical Department of the Hospital. This request was willingly accepted and pre-natal classes for clinic patients started in May.

The total number of expectant mothers registered at pre-natal day classes and at evening parents' classes was 606, an increase of 73 over 1966 and 148 more than in 1965. Almost 50 percent of the mothers registered were referred by private doctors. The mothers who attend classes are usually married primiparas in their early twenties who have completed high school and are in the middle income group.

A high risk and less accessible group that continues to give public health nurses much concern is the unmarried mothers. In the year 1967, there were 734 registered illegitimate births in Winnipeg.

Statistics indicate that out of the 734 illegitimate births, 94 or 12.9 percent occurred in young women under 17 years. This is 3.2 percent more than in 1966. In this age group 7 have had 2 illegitimate pregnancies. The largest number of illegitimate children were born to women between the ages of 18 to 25 years. This age group made up 57.6 percent of the illegitimate births and 173 of this group had 2 or more illegitimate children.

Because these young women and their newborn children are considered high-risk patients and frequently receive inadequate care, public health nurses made a special effort to contact them in the past year. Hospital obstetrical personnel were briefed on the public health nursing program and their assistance in referring unmarried mothers for public health nursing supervision was obtained. Also, the Children's Aid Society agreed to send written referrals of all unmarried mothers coming under their care.

The unmarried mothers are encouraged to attend conveniently located pre-natal classes in the community. Those who hesitate to do so are taught pre-natal care and hygiene in their home.

Public health nurses have been prepared to discuss family planning with individuals in the community and to answer questions on methods of family planning prescribed by physicians. No statistics have been kept, but public health nurses report this matter is frequently discussed at home visits and referrals are made to private doctors or clinics.

Services to Students

The Nursing Division continued its policy of providing periods of observation for student nurses from local hospitals as well as students from the University of Manitoba School of Nursing and the Faculty of Medicine.

Special Services

During the year the Nursing Division members:

1. Assisted with the preparation of the Health Education Curriculum for the Manitoba Department of Education
2. Participated in the orientation program for teachers for Trainable Mentally Handicapped classes.
3. Assisted with the preparation of regulations for Child Welfare Institutions in Manitoba.
4. Participated in the Welfare Planning Council's Social Service Audit.

5. Submitted written comments to the Minister of Health on the Recommendations and the Report of the Minister's Committee on the Supply of Nurses.

6. Submitted a written statement to the Minister on the establishment of a Central School of Nursing in Manitoba.

7. Participated on Advisory Committees at the Manitoba Institute of Technology, the University of Manitoba School of Nursing, and on various committees of the Manitoba Association of Registered Nurses.

Nutrition Service

Although everyone knows that one must eat to live, no one knows intuitively what and how much one must eat to be as healthy as possible. That knowledge must be acquired. For this reason nutrition education is an important aspect of different areas of the Health Department program, particularly the services carried out by public health nurses.

A City nutritionist is employed to act as a consultant on nutrition to Health Department personnel and the general public. Her responsibilities also involve assisting with the development of educational programs which would improve the health and nutrition status of Winnipeg citizens.

In the past year, the nutritionist made 224 home visits to give guidance and help in the solution of family food problems, budgeting, home management or special diets. All people receiving insulin or oral hypoglycemic agents from the City were visited at least once during the year. Visits were also made to diabetics referred by private doctors or the Diabetic Day Care Centre. The food habits of these patients were discussed, their diets assessed and assistance in the management of their diets given as well as suitable recipes. Suggestions were also submitted to the National Diet Counsellor of the Canadian Diabetic Association for incorporation into the revised booklet on Exchange Lists for Meal Planning for Diabetics in Canada.

The nutritionist held 62 individual consultations with public health nurses, clinic nurses, social workers, hospital and provincial nutritionists regarding nutrition problems and resource material. During the year the diets of 330 pre-natals were assessed and advice given where improvement in the diet was indicated.

The City nutritionist assisted the Supervisor of the Winnipeg School Board Home Economics Department in carrying out a six-week project for the Mothers' Club of the Neighborhood Service Centre in demonstrating the cooking of low-cost foods, proper table setting and dishwashing and with discussions on meeting the nutrition needs of families with limited funds.

Letters were sent to each elementary school principal suggesting ways of nutrition education for children by the use of animal experiments, films, and talks, and offering assistance with such projects. Two schools have availed themselves of this offer to date. More are booked for the new year.

Talks on nutrition were given to the Sanitary Inspectors, Ukrainian Women's Group, Selkirk Day Centre, Home Teachers of the City Welfare Department and public health nurses. The nutritionist also assisted in the orientation program for public health nurses, and the revision of the nutrition section of the public health nursing manual.

During the year, the nutritionist made 58 visits to the 8 Child Health Conferences to give advice on nutrition to mothers. She also made arrangements for both dietetic interns at City hospitals and some Home Economic students from the University to spend a day observing activities at Child Health Conferences and learning about other aspects of the community nutrition program.

Acknowledgment

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

SCHOOL HEALTH SERVICES

NURSING APPRAISALS	Districts South	West	East	North	Total
Individuals Served	23,778	17,332	18,649	31,145	90,904
Eye	3,830	2,905	3,068	3,869	13,672
Ear	707	503	781	798	2,789
Nose & Throat	2,536	1,040	1,605	2,915	8,096
Dental	467	694	1,278	1,303	3,742
Allergies	467	378	287	605	1,737
Asthma	139	66	67	106	378
Tuberculosis	77	13	9	88	187
Cardiac	33	32	34	87	186
Diabetes	99	24	49	30	202
Underweight & Overweight	597	218	241	737	1,793
Gastro-intestinal	2,373	757	1,017	2,574	6,721
Genito-urinary	145	72	184	287	688
Menstrual Complaints	1,026	240	272	869	2,407
Injuries	5,946	3,571	3,198	7,074	19,789
Neurological	130	133	135	175	573
Behaviour	566	148	305	752	1,771
Headaches	1,442	454	709	1,500	4,105
Communicable Skin Conditions	480	1,591	1,850	2,750	6,671
Pediculosis	33	258	550	255	1,096
Acne	300	226	165	528	1,219
Other Suspect Communicable Diseases	499	561	570	948	2,578
Other	2,426	3,639	2,872	3,749	12,686
TOTAL NURSING APPRAISALS	24,318	17,523	19,246	31,999	93,086
OTHER NURSING ACTIVITIES					
Health Education (No. of Talks)	86	87	157	146	476
Acute Communicable Inspections (No. of Classrooms)	12	34	54	29	129
General Inspections (No. of Classrooms)	122	348	357	270	1,097
Snellen Vision Tests (No. of Pupils)	13,541	9,972	8,907	12,095	44,515
Colour Vision Tests (No. of Pupils)	-	261	-	-	261
Treatments (No. of Pupils)	4,938	4,111	4,011	8,711	21,771
Teacher-Nurse Conferences (No. of Conferences)	208	137	361	386	1,092
Principal-Teacher Meetings (No. of Meetings)	3	23	29	31	86
Conf. with parents, guardian, teachers, others (No. of Conferences)	13,106	7,736	8,201	14,221	43,264
Aurometer Tests	1,159	549	706	501	2,915

SCHOOL HEALTH SERVICES

Districts

NURSING APPRAISALS	South	West	East	North	Total
Individuals Served	23,178	17,332	16,849	31,145	90,504
Eye	3,830	2,905	3,068	3,869	13,672
Ear	707	503	781	798	2,789
Nose & Throat	2,336	1,060	1,605	2,915	8,056
Dental	467	694	1,278	1,303	3,742
Allergies	467	378	287	605	1,737
Asthma	139	66	67	106	378
Tuberculosis	77	13	9	88	187
Cardiac	33	32	34	87	186
Diabetes	99	24	45	30	203
Underweight & Overweight	397	218	241	737	1,793
Gastro-intestinal	2,373	757	1,017	2,574	6,721
Genito-urinary	145	72	184	287	688
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Teacher-Nurse Conferences (No. of Conferences)	208	137	361	386	1,092
Principal-Teacher Meetings (No. of Meetings)	3	25	29	31	88
Conf. with parents, guardian, teachers, others (No. of Conferences)	13,106	7,736	8,201	14,221	43,264
Audiometer Tests	1,159	549	706	301	2,915

SCHOOL MEDICAL EXAMINATIONS

Medical Statistics	Districts				
	South	West	East	North	Total
Doctors visits to schools	126	106	127	211	570
Number of Children Examined by Doctor	1,008	753	827	1,408	3,996
Number of Parents invited to Medical Exam.	585	508	669	1,020	2,782
Number of Parents present at Medical Exam.	343	269	223	468	1,303
Diphtheria and Tetanus Booster Inoculations	1,771	1,376	1,579	2,338	7,064
Poliomyelitis Booster Inoculations	1,820	1,381	1,581	2,338	7,120
Number of defects reported by school doctors	344	507	504	758	2,113

CLASSIFICATION OF DEFECTS REPORTED BY SCHOOL PHYSICIANS

Systemic Classification	Etiological Classification								
	Congenital	Traumatic	Infectious or Inflammatory	Allergic or Rheumatic	Neoplastic	Nutritional Metabolic Endocrine	Psychogenic	Idiopathic or Unknown	TOTAL
Eye	132	6	40	2	-	-	1	52	233
Ear, Nose & Throat	28	6	190	4	1	6	-	30	265
Dental	5	3	170	-	-	95	-	236	509
Digestive	4	-	18	-	-	5	4	12	43
Respiratory	2	-	32	11	-	-	1	1	47
Cardiac	33	-	11	4	-	1	2	44	95
Neurological	7	3	5	-	1	2	16	22	56
Musculo-Skeletal	45	73	16	2	-	22	-	38	196
Genito-Urinary	29	3	12	-	-	5	19	28	96
Skin	11	38	151	41	5	14	3	34	297
Miscellaneous	10	2	34	1	1	83	73	72	276
Total	306	134	679	65	8	233	119	569	2,113

SCHOOL MEDICAL EXAMINATIONS

Districts

Medical Statistics	South	West	East	North	Total
Doctors visits to schools	126	106	127	211	570
Number of Children Examined by Doctor	1,008	753	827	1,408	3,996
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Diphtheria and Tetanus Booster Inoculations	1,771	1,376	1,379	2,338	7,064
Poliomyelitis Booster Inoculations	1,820	1,381	1,581	2,338	7,120
Number of defects reported by school doctors	764	507	904	738	2,113

CLASSIFICATION OF DEFECTS REPORTED BY SCHOOL PHYSICIANS

Systemic Classification	Etiological Classification								
	Congenital	Traumatic	Tuberculosis	Rheumatic Fever	Poliomyelitis	Endocrine	Psychogenic	Unknown Etiology	TOTAL
Eye	132	6	40	2	-	-	1	52	233
Ear, Nose & Throat	28	6	190	4	1	6	-	30	265
Dental	5	3	170	-	-	95	-	236	509
Digestive	4	-	18	-	-	5	4	12	43
Respiratory	2	-	32	11	-	-	1	1	47
Cardiac	33	-	11	4	-	1	2	44	95
Neurological	7	3	5	-	1	2	16	22	56
Musculo-Skeletal	45	73	16	2	-	22	-	38	196
Genito-Urinary	29	2	12	-	-	3	19	28	93
Skin	11	18	151	41	5	14	3	34	297
Miscellaneous	10	2	34	1	1	89	73	72	278
Total	306	134	679	65	8	237	119	569	2,113

HOME VISITING PROGRAM

Individuals Served and Re-visited by Nursing Districts

Program	Individuals Served					Re-Visits				
	South	West	East	North	TOTAL	South	West	East	North	TOTAL
Maternity										
Antepartum	90	182	140	195	607	146	286	287	389	1,108
Postpartum	936	1,073	811	868	3,688	1,065	1,189	987	1,004	4,245
Health Promotion	3,763	3,152	3,420	4,706	15,041	7,059	5,220	7,778	10,494	30,551
Disease Control										
Injuries	193	128	110	289	720	291	184	202	464	1,141
Eye	94	89	77	297	557	199	148	205	634	1,186
Ear	79	69	65	98	311	144	122	196	203	665
Arthritis	4	4	18	17	43	24	9	53	42	128
Cancer	5	10	14	13	42	18	56	51	36	161
Diabetes	8	15	16	17	56	24	24	55	43	146
Cardiovascular Disease	20	25	36	56	137	55	42	78	106	281
Cerebral Vascular Accidents	8	5	3	13	29	13	11	14	29	67
Other Chronic Diseases	112	106	78	247	543	268	234	254	813	1,569
Mental Illness	80	43	51	102	276	320	88	147	361	916
Mental Retardation	27	18	32	36	113	113	24	99	122	358
Other Non-Com. Diseases	207	208	280	607	1,302	522	365	838	1,254	2,979
Tuberculosis Cases	25	92	85	110	312	45	164	187	232	628
Tuberculosis Contacts	63	78	90	167	398	101	140	206	325	772
Other Com. Diseases	236	310	322	782	1,650	431	594	738	1,316	3,079
Total - All Programs	5,950	5,607	5,648	8,620	25,825	10,838	8,900	12,375	17,867	49,980
Not Home, Not Found	-	-	-	-	-	1,387	1,675	1,548	1,679	6,289
GRAND TOTAL	5,950	5,607	5,648	8,620	25,825	12,225	10,575	13,923	19,546	56,269

HOME VISITING PROGRAM

Individuals Served and Re-visited by Nursing Diagnosis

Diagnosis	Individuals Served				Re-Visits			
	South	West	North	TOTAL	South	West	North	TOTAL
Maternity								
Abortion	50	182	140	372	287	288	389	964
Postpartum	915	811	808	2,534	1,189	1,065	1,004	3,258
Health Promotion								
	1,703	2,157	2,420	6,280	1,278	2,220	10,494	13,992
Diseases Control								
Injuries	593	728	770	2,091	184	184	384	752
Bye	94	89	77	260	208	148	624	980
Ear	10	4	65	79	202	122	1,185	1,509
Arthritis			88	88	196	104	258	558
Cancer			117	117	53	22	128	203
Diabetes	4	10	14	28	51	18	101	170
Cardiovascular Disease	8	15	15	38	28	42	146	216
Other Chronic Diseases	20	52	52	124	78	55	108	241
Mental Illness		3	13	16	14	11	67	92
Mental Retardation	112	107	147	367	224	254	811	1,289
Other Non-Comm. Diseases	27	80	102	209	138	144	543	825
Tuberculosis Cases	2	4	10	16	8	14	61	83
Tuberculosis Contacts	63	43	101	207	141	104	322	567
Other Com. Diseases	18	28	80	126	72	120	425	617
	27	21	32	80	22	25	122	169
	215	310	282	807	708	1,316	3,070	5,094
	—	—	—	—	—	—	—	—
Total - All Problems	5,950	5,607	8,520	20,077	5,279	10,275	24,309	39,863
	—	—	—	—	—	—	—	—
Not Home, Not Found	-	-	-	-	1,287	1,545	1,679	4,511
	—	—	—	—	—	—	—	—
GRAND TOTAL	5,950	5,607	8,520	20,077	6,566	11,820	25,988	44,374
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HOME VISITING PROGRAM

By Type of Visit, Age of Patient, Nursing Districts

Age on Day of Visit	Maternity Visits				Health Promotion Visits				Disease Control Visits			
	South	West	East	North	South	West	East	North	South	West	East	North
Under 28 Days	-	-	-	-	924	998	761	808	33	10	28	18
28 Days - 1 Year	-	-	-	-	899	1,058	961	1,116	178	171	284	422
1 - 4 Years	-	-	-	-	1,662	1,229	1,870	2,641	549	426	816	1,245
5 - 19 Years	150	166	168	144	1,600	914	1,469	2,361	1,090	966	1,119	2,693
20 - 44 Years	1,058	1,307	1,097	1,245	1,816	940	2,355	3,257	523	466	624	1,123
45 - 65 Years	3	2	9	4	137	60	282	253	137	120	315	343
65 Years & Over	-	-	-	-	21	21	80	58	58	46	137	136
TOTAL	1,211	1,475	1,274	1,393	7,059	5,220	7,778	10,494	2,568	2,205	3,323	5,980

Families Serviced

	Districts				
	South	West	East	North	Total
New Families Enrolled	1,203	1,477	1,310	1,366	5,356
Families Carried Forward	610	617	824	906	2,957
Public Welfare Families	390	873	1,340	1,800	4,403

Pre-Natal Classes

Enrollees at Afternoon Pre-natal Classes	105	113	118	79	415
Enrollees at Evening Pre-natal Classes	62	-	-	69	131
TOTAL ENROLLEES	167	113	118	148	546
Attendance at Afternoon Pre-natal Classes	569	619	416	549	2,153
Attendance at Evening Pre-natal Classes	347	-	-	259	606
TOTAL ATTENDANCE	916	619	416	808	2,759
Number of Persons Viewing Films	1,517	967	339	2,352	5,175

HOME VISITING PROGRAM

By Type of Visit, Age of Patient, Nursing Diagnosis

Age on Day of Visit	Maternity Visits		Health Promotion Visits		Chronic Conditions Visits	
	South	West	South	North	South	East West
Under 28 Days	-	-	724	808	10	28 18
28 Days - 1 Year	-	-	869	1,058	171	284 422
1 - 4 Years	-	-	1,662	1,228	1,870	629 816 1,254
5 - 19 Years	130	148	1,000	914	1,469	1,000 566 1,189
20 - 44 Years	1,058	1,097	1,815	940	2,255	525 444 1,121
45 - 64 Years	-	6	137	60	282	137 120 345
65 Years & Over	-	-	21	-	80	58 127 139
TOTAL	1,211	1,275	7,059	5,220	7,278	10,404 2,958 2,205 3,223 5,980
New Families Enrolled			1,207	617	1,310	1,369
Families Carried Forward			510	813	1,340	1,800
Public Welfare Families						

Pre-Natal Classes	South	West	Total
Enrollees at Afternoon Pre-natal Classes	105	113	218
Enrollees at Evening Pre-Natal Classes	62	-	62
TOTAL ENROLLEES	167	113	280
Attendance at Afternoon Pre-natal Classes	360	519	879
Attendance at Evening Pre-natal Classes	546	470	1,016
TOTAL ATTENDANCE	906	989	1,895

Number of Persons Viewing Films

CHILD HEALTH CENTRES

Child Health Centre Statistics			Districts South	West	East	North	Total
Number of Child Health Centres			1	3	2	2	8
Number of Child Health Centre Sessions Held			51	154	100	102	407
*Enrollment at Child Health Centres							
	Infants	New	187	466	245	247	1,145
		Old	97	188	104	223	612
		Total	284	654	349	470	1,757
	Pre-school	New	189	326	305	381	1,201
		Old	366	536	297	349	1,548
		Total	555	862	602	730	2,749
*Re-Visits	Infants		422	1,017	339	576	2,354
	Pre-school		371	856	397	616	2,240
		Total	793	1,873	736	1,192	4,594
*TOTAL ATTENDANCE			1,632	3,389	1,687	2,392	9,100
Discharges	Infants	New	12	20	1	4	37
		Old	36	100	14	13	163
	Pre-school	New	22	30	4	18	74
		Old	370	552	97	431	1,450
TOTAL DISCHARGES			440	702	116	466	1,724
Transfers		In	45	103	26	45	219
		Out	51	87	25	35	198
TOTAL TRANSFERS			96	190	51	80	417
Doctors' Examinations & Consultations							
	Infants		255	450	403	609	1,717
	Pre-school		321	627	363	691	2,002
		Total	576	1,077	766	1,300	3,719
Nurses' Consultations	Infants		694	1,232	282	871	3,079
	Pre-school		924	1,193	631	1,126	3,874
		Total	1,618	2,425	913	1,997	6,953
Number of Immunizations			1,685	3,383	1,902	2,631	9,601
No. of Completed Diphtheria, Pertussis, Tetanus & Polio			250	517	286	343	1,396
Number of Smallpox Vaccinations			112	218	84	176	590

(*Enrollment - new - attending for first time
*TOTAL ATTENDANCE - - old - attending for first time in 1967
(*Re-visits includes new & old enrollment for 1967

CHILD HEALTH CENTRES

Child Health Centre Statistics		Districts				
		South	West	East	North	Total
Number of Child Health Centres		1	3	2	2	8
Number of Child Health Centre Sessions Held		51	154	100	102	407
*Enrollment at Child Health Centres						
Infants	New	187	466	245	247	1,145
	Old	97	188	104	223	612
	Total	284	654	349	470	1,757
Pre-school	New	189	376	305	321	1,201
	Old	366	536	297	349	1,548
	Total	555	912	602	730	2,749
*Re-Visits						
Infants		422	1,017	319	576	2,334
Pre-school		371	856	397	616	2,240
	Total	793	1,873	716	1,192	4,574
*TOTAL ATTENDANCE		1,632	3,389	1,687	2,392	9,100
Discharges	Infants New	12	20	1	4	37
	Old	36	100	14	13	163
Pre-school	New	22	30	6	16	74
	Old	370	552	97	431	1,450
TOTAL DISCHARGES		440	702	118	464	1,724
Transfers	In	45	103	26	45	219
	Out	51	87	25	35	198
TOTAL TRANSFERS		96	190	51	80	417
Doctors' Examinations & Consultations						
Infants		255	450	403	609	1,717
Pre-school		321	627	363	691	2,002
	Total	576	1,077	766	1,300	3,719
Nurses' Consultations	Infants	696	1,232	282	871	3,079
Pre-school		924	1,892	631	1,126	3,874
	Total	1,618	2,425	913	1,997	6,953
Number of Immunizations		1,685	3,383	1,902	2,631	9,601
No. of Completed Diphtheria, Pertussis, Tetanus & Polio		250	517	786	343	1,396
Number of Smallpox Vaccinations		112	218	84	176	590

(*Enrollment - new - attending for first time in 1967
*TOTAL ATTENDANCE - old - attending for first time in 1967
(*Re-visits includes new & old enrollment for 1967

ATTENDANCE AT CHILD HEALTH CENTRES

Name of Centre	Total Immun.	Drs. Consult. & Exams.	Nurses' Consult.	Total Exam. & Consult.	Total Sessions
St. Luke's	1,685	576	1,618	2,194	51
St. Matthew's	1,815	458	1,191	1,649	52
St. Jude's	932	336	502	838	51
Sparling	636	283	732	1,015	51
St. Andrew's	1,318	436	669	1,105	50
Grey Street	584	330	244	574	50
Robertson House	1,278	578	906	1,484	50
Holy Ghost	1,353	722	1,091	1,813	52
TOTAL	9,601	3,719	6,953	10,672	407

CHILD HEALTH CENTRE FINDINGS & REFERRALS

Child Health Centre Findings		Districts South	West	East	North	Total
Physical		226	433	153	311	1,123
Neuro-Motor		11	15	8	27	61
Language		26	39	15	46	126
Socializing		14	41	44	57	156
Feeding & Nutrition		118	317	303	250	988
Elimination		26	100	30	59	215
Sleeping		12	44	27	49	132
Family		8	13	25	21	67
P.K.U. Tests	Negative	107	153	77	91	428
	Positive	-	-	-	-	-
Referrals to:	C.H.C. Doctors	168	282	239	179	868
	Private Doctors	24	18	20	27	89
	Hospital Clinics	30	60	45	72	207
	Community Agencies	6	3	-	10	19
	Home Visits	22	63	8	11	104

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CHILD HEALTH CENTRE FINDINGS & REFERRALS

Child Health Centre Findings		Districts South	West	East	North	Total
Physical		276	433	153	311	1,173
Neuro-Motor		11	15	8	27	61
Language		76	39	15	46	176
Socializing		14	41	44	57	156
Feeding & Nutrition		118	312	303	250	983
Elimination		76	100	30	59	215
Sleeping		12	44	27	49	132
Family		8	13	25	21	67
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SCHOOL AUDIOMETRIC TESTS

Total Number of Children Tested	9,090
Number of Children Receiving First Test	6,745
Number of Children Receiving Re-test	2,345
Number of Children Referred For Further Medical Examination	436
Number of Teachers or Others Tested	85

NUTRITIONIST'S REPORT

Consultations with Patient re Diet or Home Management	231
Consultations with P.H.N. or Agencies re Diets	86
Pre-natal Diet Assessments	330
Meetings with Nurses or Others	95

CHILDREN EXAMINED FOR FRESH AIR CAMPS

Camp Morton	128
Salvation Army	244
Y.M.C.A.	445
Y.W.C.A.	183
United Church	635
Camp Playmore	206
Camp Tikvah	170
Logan Day Camp	79
Lakeside Camp	200
Camp Funland	57
TOTAL CAMP EXAMINATIONS	2,347

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Y.M.C.A.	445
Y.W.C.A.	183
United Church	695
Camp Playmore	206
Camp Tikvah	170
Logan Day Camp	79
Lakeside Camp	200
Camp Punland	97
TOTAL CAMP EXAMINATIONS	2,347

CHILDREN'S HOSPITAL - EYE CLINIC

Number of Clinics Held		237
Number of Children Examined		
New	565	
Re-examined	1,308	
Total		1,873
REFRACTIONS		
Refractions Completed		
Not needing glasses	399	
No change in prescription	422	
Glasses discontinued	5	
Glasses prescribed	683	
Total		1,509
Refractions Not Completed		
Refractions not needed	-	
Returned for observation	364	
Total		364
		1,873
Number of Children with 1/3 or Less Normal Vision with glasses		1
Number of Out-patient Consultations (Winnipeg residents)		423
Number of Children referred to Orthoptic Clinic		67

VICTORIAN ORDER OF NURSES
(Report for Metropolitan Winnipeg)

New Cases 2,372

	Nursing Care Visits	Health Inst. Visits	Total
Pre-natal	60	71	131
Post-natal	17	126	143
Newborn	140	268	408
Infant	415	35	450
Pre-school	969	90	1,059
School	440	17	457
Adult	77,934	-	77,934
TOTAL	79,975	607	80,582

Patients Not Seen	815
On Behalf of Patients	19
Total	834
Night Calls included in above	641

REGISTRY OF HANDICAPPED SCHOOL CHILDREN

The Registry continues to serve as a useful technique for orderly review of every City of Winnipeg school child with a health problem which could be regarded as a potential educational handicap. Children with diabetes, neuromuscular disease, convulsive disorder, asthma, disorders of communication and heart disease have their health and school records reviewed regularly, and a considerable volume of communication between private physician, school health service, school nurse and teacher results. Every effort is made to make sure that participation in physical training is allowed where possible.

During the past year, special attention has been given to children with asthma. There are well over one hundred such children and in most cases school attendance and performance are below expectations. In addition, several children in this category are retarded in growth.

A Conference is being planned for early 1968 to include a visiting medical expert as well as local specialists in respiratory diseases and allergy. Attendance will be arranged for Public Health Nurses, Physiotherapy Directors and technicians, as well as educationalists.

As was reported last year, regular review of children on drug therapy for convulsive disorder brought to light instances of inappropriate drug selection and dosage, as well as discontinuous medical care. Private physicians and Out-patient Department Clinics were contacted, appointments made, and adjustments leading to improved alertness in class and better control of seizures resulted.

The addition, in September 1967, of some three hundred children formerly in the care of the Kinsmen's School for Mentally Retarded Children, has added an interesting new group to the Registry, and these children will occupy some of our attention this coming year.

Mr. Barry Bermack, a Fourth-Year Medical student, spent the summer working with Assistant Professor Choi, Department of Social and Preventive Medicine, on Congenital Malformations.

It is hoped that in the summer of 1968 a medical student can be assigned to study the effect of asthma on school performance.

INSPECTIONS BRANCH

Dairy	Principal Inspector	R. Bentham, Cert.R.San.I.
Food	Principal Inspector	R.H.Keena,Cert.R.San.I.,M.R.S.H.
Housing	Principal Inspector	D.M.Graham, C.P.H.I.(C).
Sanitation & Hygiene	Asst.Chief Health Inspector	A. Cross, C.P.H.I.(C).,F.R.S.H.
Chief Health Inspector		R.C. Morrow, D.V.M.,C.P.H.I.(C).

The personnel of the Branch in addition to those listed above consists of 29 certified inspectors and 2 clerks as of the end of the year, and for the first time in several years had a full establishment. In the month of September, five uncertified inspectors successfully completed courses and examinations set by the Canadian Public Health Association and were certified by the Institute of Public Health Inspectors. During the year 2 inspectors left the department, one due to death and one due to retirement, however 2 certified inspectors were taken on staff from other sources.

On August 8th, 1967, the Inspection Branch lost the services of Mr. George Kelly due to death. Mr. Kelly joined the department in 1928 and was with the department for 38 years in various inspectional positions and at the time of his death held the position of Consultant in the Inspections Branch.

During 1967, one inspector attended a three week course on Water and Sewage Treatment, and one inspector attended a course on Industrial Hygiene Engineering in Cincinnati, Ohio, sponsored by the United States Public Health Service.

The seventeenth Annual In Service Training Conference for Health Inspectors was held this year at the Montcalm Hotel, Fort Garry, from October 23rd to 27th. This Conference was sponsored jointly by the Manitoba Department of Health and the Department of National Health & Welfare, and was financed by a National Health Grant. Four inspectors from this department participated in this conference by presenting a paper, as a member of a discussion panel or chairing the meeting for a day. As it is not practical to have all inspectors attend sessions simultaneously, arrangements were made to have inspectors attend the discussions that were of greatest interest to them.

The Pan-American Games were held in Winnipeg from Sunday, July 23rd to Sunday, August 2nd, and this department assisted as a member of the Public Health Committee which was responsible for all aspects pertaining to public health. Numerous meetings were held in planning and providing sanitary facilities at the various locations in Winnipeg and surrounding municipalities where the various events were staged. A great majority of the participating athletes were housed and fed at the "Pan-Am Village" located at Selkirk Lines, Fort Osborne Barracks with not one complaint being lodged - in fact, the athletes and officials were greatly impressed with the housing and eating facilities provided and very appreciative of the variety, quality and quantity of foods provided, as shown in the complimentary remarks from all participating countries.

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DAIRY DIVISION:

At the end of 1967 there were 607 licensed producers shipping milk to 8 pasteurization plants. The volume of milk shipped has increased to 15,200,000 pounds per month. Every producer has a refrigerated stainless steel bulk tank on the farm which is kept at a temperature of around 38°F. The milk is picked up by tanker truck every other day. The drivers of these trucks are qualified to inspect the milk, measure for volume, and take any necessary samples to be tested. Twice a month milk from each producer is tested for quality using the plate loop count test. A bonus of 10¢ per hundred pounds is paid for all milk which tested 50,000 bacteria or less, milk testing between 50,000 and 100,000 bacteria is considered to be acceptable. The area is divided into approximately 55 routes handled by 26 tanker trucks.

The producer farms are inspected every three to four months, some are inspected every month. The condition of the premises continues to improve. 108 of these farms now use pipe lines in their milking procedure. A few farms have now switched over to "free stall" housing. All the cattle are tested for tuberculosis and brucellosis.

The pasteurization plants are inspected regularly and some samples of the pasteurized products are taken each day for test. The samples are tested for bacterial count, proper pasteurization, butterfat and coliform count. In 1967 1,938 samples were tested. Samples of soft ice cream are tested each month from the soft ice cream establishments, 614 samples were tested in 1967.

FOOD DIVISION:

This division is responsible for the inspection and sanitary operation of all premises where food is manufactured, processed, stored or served to the public in the City of Winnipeg.

There are 1,900 such establishments. Licenses to operate are required for 1,525 premises and 725 food and drink vending machines. Licensed premises include 550 restaurants, 52 caterers, 52 bakeries, 85 dance halls, 55 hotels and 7 sausage manufacturers. Many other food establishments, wholesale and retail, including grocery stores, fish processing plants, canteens and others, while not required to obtain a license, are subject to inspection from this division. Restaurants, grocery stores and bakeries are inspected once a month, however, in many cases more frequent inspections are required.

An annual event in the City is the Red River Exhibition. Many problems are encountered due to the temporary nature of the refreshment booths located throughout the extensive grounds. It was necessary to assign two inspectors for duty at the exhibition for the duration of the event.

Seven wholesale sausage manufacturers operate in the City at present. All are using Federal inspected meat for the manufacture of their products and in that respect no difficulty has been experienced. Their operation is under continuous supervision by the City Health Department to ensure safety of the finished products.

Swab testing of dishes, glasses and restaurant utensils to determine if they have been properly washed and sanitized has continued in 1967. The test used has a great educational value. Owners and operators appreciate the importance of good sanitary practises. 578 restaurants and beverage rooms were examined and 3,177 utensils were tested.

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Swab testing of dishes, glasses and restaurant utensils to determine if they have been properly washed and sanitized has continued in 1967. The test used has a great educational value. Owners and operators appreciate the importance of good sanitary practices. 378 restaurants and beverage rooms were examined and 3,177 utensils were tested.

All plans for construction or alteration for food handling establishments must be first approved by the Food Division prior to initiation of any building or changes, Plans for 22 new premises and 25 alterations were approved in 1967.

In 1967 food condemned by this division amounted to 21,814 lbs. This was due to damage by fire, water or other waste. Many more examinations were carried out at the request of owners or the public to determine wholesomness and safety. During the year 47 fire calls in food premises were attended - most of these after normal working hours.

HOUSING DIVISION:

In 1967 the Housing Division was requested by the Advisory Committee on Housing and Urban Renewal to provide detailed reports for the Committee on the Minimum Standard Housing Repair By-law, Rooming House Inspections and the Areas Suitable for Rehabilitation in the City. This work was completed by our inspectors in the last three months of the year to the satisfaction of the Advisory Committee.

In enforcing the Minimum Standards of Housing Repair By-law the Housing Division dealt with 94 new properties. The properties were distributed by wards as follows: Ward One - 11; Ward Two - 43; Ward Three - 40. Distribution by zoning was R-1, 5; R-2, 41; R-3, 22; R-4, 15; C-1, 1; C-2, 1; C.M.,2; M-1, 1; M-2, 6. The owners of 72 properties complied fully with the notices issued to them resulting in the painting of the walls of 43 buildings, of sheds at 12 premises, of the shingled roofs of 7 buildings, in the repair of walls of 9 buildings, verandahs and steps of 35 buildings, fences of 13 properties, sheds at 9 properties and in some reglazing. A number of dilapidated accessory buildings in yards were demolished. The Better Housing Commission dealt with 6 appeals against orders to comply with the By-law. Four applicants were granted extensions of time to comply with the By-law, one applicant was refused a variation in the order and one application was sustained because of change of ownership, the Medical Health Officer being requested to rescind the notice and serve a new notice.

During 1967 the great bulk of the Housing Division's work was in the investigation of 1,638 complaints. Only 33 of these complaints were concerning alleged violations of the exterior maintenance by-law.(The Minimum Standard of Housing Repair By-law). 226 were regarding non-compliance with the Winnipeg Heating By-law. The remaining 1,379 complaints were concerning violations of the Regulations pertaining to housing made under the Manitoba Public Health Act.

In 1967 we supplied the Winnipeg Engineering Department with a monthly list of houses that had been condemned by our Department for a period of twelve months or more. Steps were then taken by the Commissioner of Buildings, Mr.W.D. Hurst, to have these placarded houses demolished according to the requirements of the Winnipeg Charter. In some cases owners of the condemned houses appealed the demolition order and were granted a limited extension of time to properly rehabilitate their houses.

During 1967, 48 houses were placarded "Unsanitary" by the Housing Division, 17 were renovated and 33 were demolished. As of December 31st, 1967 there were 65 placarded houses recorded in our files.

SANITATION & HYGIENE DIVISION:

This Division is responsible for the routine inspection of factories, workshops, offices and office buildings; barber shops and beauty salons; swimming pools; wading pools; schools; comfort stations; billiard parlours; bowling alleys;

hatcheries and pet shops; scrap metal yards; laundries, massage parlours; second-hand stores; skating rinks; tanneries and undertaking parlours. In addition the Division reports on conditions in yards, shed and areas; on temporary surface closets for workmen; on noises; on smoke, dust and fumes; on offensive odours; on infestation of insects and rodents; and on the control of pigeons. Inspectors of this Division collect water samples for bacteriological analysis of the City's water supply and also samples from swimming pools and wading pools.

In July and August the Division's staff was augmented by the employment of a second year science student who collected the water samples from thirty-six swimming pools and the thirty-nine wading pools. Inspectors also assisted in the training of wading pool operators employed as temporary help by the Department of Parks and Recreation. Around eighty trainees received instruction.

As in past years, pigeon control was maintained throughout the year. When requested, advice was given on the control of pigeons and where necessary pigeons are shot.

The Division is responsible for the control and regulation of air pollution sources in both local and ambient atmospheres. Particulate emission was investigated by means of stack sampling in four instances and the remainder of complaints were handled by dustfall collection and microscope identification techniques. Local situations involving industry were dealt with by means of ventilation studies and sampling for air borne contaminants such as dusts, fumes, mists, vapours and odours. These included spray painting, welding, plating and degreasing operations. Hazards of three major categories were covered - chemical, physical and biological. Lead in air surveys of foundries resulted in a decrease of stippled cell counts in employees. The installation of costly control equipment by the industry was attributed to the work done in this area.

Carbon monoxide surveys of underground parking facilities were major projects with ten such surveys completed.

Other surveys of special mention were the CO_2 survey of caissons; benzene in rubber cement; selenium in rectifiers; use of perchloroethylene; and spray welding operations.

Factories and workshops continue to receive at least two inspections per year and periodic inspections are made of all hairdressing establishments.

The Division's statistics show that the staff completed 22,684 inspections and re-inspections; gave 2,315 interviews; collected 3,528 water samples; and dealt with 6,860 defects requiring 6,683 notices.

The tabulated reports of the various divisions follow;

butcheries and pet shops; scrap metal yards; laundries, massage parlours; second-hand stores; skating rinks; tanneries and undertaking parlours. In addition the Division reports on conditions in yards, shed and areas; on temporary surface closets for workmen; on nuisance; on smoke, dust and fumes; on offensive odours; on infestation of insects and rodents; and on the control of pigeons. Inspectors of this Division collect water samples for bacteriological analysis of the City's water supply and also samples from swimming pools and wading pools.

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The tabulated reports of the various divisions follow:

DAIRY DIVISION

	INSPECTIONS	CONTACTS
COUNTRY:		
Milk Producers	2,308	206
Prospective Producers	24	6
Bulk Milk Tanks	2,284	
CITY:		
Pasteurization Plants	187	1,579
Ice Cream Manufacturers	181	
Counter Freezers	576	
Butter Plants	180	
Cheese Plants	170	
Tests of Equipment	22	
Tanker Trucks Inspected	298	
Vehicles-Delivery	88	
	6,318	1,791

SAMPLES:	
Milk Shippers	16,117
Milk Retail	1,366
Milk Special	747
Cream	572
Ice Cream	614
Bottles for sterility	96
Water	56
Special Samples Tested	103
	19,671

GENERAL:	
Calls	1,450
Complaints	47
Letters sent re: Premises	161
Letters sent re: Quality of Milk	237
Cancellations for Poor Quality	2
Test Result Cards Sent	15,076
Permits Issued	9
Permits Cancelled	43
Temperatures Taken	1,249
	18,274

DAIRY DIVISION

	INSPECTIONS	CONTACTS
COUNTRY:		
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FOOD DIVISION

	INSPECTIONS	CONTACTS
Bakeries	705	219
Banquet Halls	101	23
Beer Parlors	230	64
Breweries & Bottling Plants	21	7
Candy Manufacturers	47	21
Canteens & Hotel Kitchens	93	20
Caterers	188	36
Cereal Mills	31	11
Cocktail Lounges	217	28
Dance Halls	124	27
Egg & Poultry Wholesale	15	7
Fish-filleting, Cold Storage etc.	56	21
Food Processing	79	23
Frozen Food Locker Plants	11	0
Ice Houses & Depots	8	2
Pickle & Vinegar Factories	1	1
Poultry Slaughterhouses	83	30
Poultry Keeper	1	0
Private Clubs	34	6
Producer's Markets, Vegetables Stalls	232	68
Restaurants	4,098	1,200
Retail Food Stores, Grocer, Butcher etc.	2,362	523
Sausage Manufacturers	142	78
Spice Mills	6	0
Wholesale- Groceries & Vegetables	173	64
Fires in Food Premises	47	3
Vehicles	43	1
Vending Machines	173	10
Special Calls	402	96
TOTALS	9,723	2,589

Complaints	279		
Notices: Verbal	3,084	Samples: Food	15
Written	288	Water	3
Plans Examined	47	Plans Approved	44

Bacteriological Tests (Restaurants & Beer Parlors):

No. of Premises	578	No. of Utensils	3,177

Condemnations (destroyed in City Incinerator):

Baked Goods	5,086 lbs	Fats	207 lbs
Canned Goods	206 lbs	Fish & Sea Foods	3,749 lbs
Cereal	8,518½ lbs	Fruit & Vegetables	1,901 lbs
Chili	10 lbs	Meat & Meat Products	1,080½ lbs
Dairy Products	543½ lbs	Poultry	155 lbs
Eggs	125 Doz.	Sugar	233 lbs
Detergent	125 lbs	Liquor	102 bottles
Paper Goods	8 Boxes	Soft Drinks	12 cases

FOOD DIVISION

	INSPECTIONS	CONTACTS
Bakeries	705	219
Banquet Halls	101	23
Beer Parlors	230	64
Breweries & Bottling Plants	21	7
Candy Manufacturers	67	21
Canteens & Motel Kitchens	93	20
Caterers	188	19
Cereal Mills	31	11
Cocktail Lounges	217	78
Dance Halls	124	27
Egg & Poultry Wholesale	15	7
Fish-filleting, Cold Storage etc.	56	21
Food Processing	79	23
Frozen Food Locker Plants	11	0
Ice Houses & Depots	8	2
Pickle & Vinegar Factories	1	1
Poultry Slaughterhouses	83	30
Poultry Keeper	1	0
Private Clubs	34	6
Producer's Markets, Vegetables Stalls	232	68
Restaurants	4,098	1,200
Retail Food Stores, Grocer, Butcher etc.	2,362	323
Sausage Manufacturers	162	78
Spice Mills	6	0
Wholesale- Groceries & Vegetables	173	64
Fires in Food Premises	67	3
Vehicles	63	1
Vending Machines	173	10
Special Calls	402	96
TOTALS....	9,123	2,589

Complaints 279

Notices: Verbal ..... 3,084 Samples: Food 15
Written ..... 288 Water 3

Plans Examined ..... 67 Plans Approved 64

Bacteriological Tests (Restaurants & Beer Parlors):

No. of Premises ..... 378 No. of Utensils 3,177

Condemnations (destroyed in City Incinerator):

Baked Goods	5,085 lbs	Fats	207 lbs
Canned Goods	206 lbs	Fish & Sea Foods	3,749 lbs
Cereal	8,318 lbs	Fruit & Vegetables	1,901 lbs
Chili	10 lbs	Meat & Meat Products	1,080 lbs
Dairy Products	3639 lbs	Poultry	153 lbs
Eggs	125 doz.	Sugar	233 lbs
Beverages	125 lbs	Liquor	102 bottles
Paper Goods	8 boxes	Soft Drinks	12 cases

HOUSING DIVISION

Primary inspections of dwellings	367
Primary inspections of rooming houses and lodging houses	45
Primary inspections of apartment blocks, duplexes, dwellings connected to commercial premises, hotels, nursing homes, and welfare institutions	279
Other inspections and re-inspections	10,461
	11,152

Violations of the exterior maintenance by-law (The Minimum Standard of Housing Repair By-law) remedied during the year under orders from the Housing Division.

Exterior Painting: walls - 43 buildings; shingled roofs - 7 buildings; sheds - 12 properties.

Exterior Repairs: walls - 9 buildings; roofs - 4 buildings; verandahs & steps - 35 buildings; reglazing - 1 building; sheds - 9 premises, fences - 13 properties.

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

Overcrowding remedied	68 families
Damp or dark cellars vacated	5 cellars
Dark, low-ceilinged attics vacated	2 attics
Lighting improved in attics	1 attic
Bedbugs exterminated	199 buildings
Cockroaches exterminated	82 buildings
Silverfish, licem fleas, beetles, ants, sowbugs exterminated	77 buildings
Rats exterminated	7 properties
Mice exterminated	141 buildings
Defective cellars repaired	49 buildings
Leaky roofs repaired	77 buildings
Walls, ceilings, floors repaired	324 buildings
Defective eavestroughing repaired or renewed	85 buildings
Defective heating equipment repaired or renewed	143 buildings
Fly screens and/or storm sashes provided	361 buildings
Defective plumbing repaired	360 buildings
Additional plumbing installed 94 (or type of occupancy changed to conform with plumbing fixture requirements 22)	116 buildings
Hot water facilities provided or improved	72 buildings
Additional heat provided	187 buildings
Redecorated	348 buildings
Gas stoves removed from bedrooms	9 buildings
Floor coverings renewed	200 buildings
Additional electric light provided	30 buildings
Blinds provided for windows	10 buildings
Filthy or torn mattresses or bedding and filthy or dilapidated furniture cleaned, repaired or renewed	48 buildings
Floors, walls washed	196 buildings
Garbage nuisances corrected	242 properties
Miscellaneous defects remedied	61 buildings

Placarded Houses As at December 31st, 1966 = 67.

During 1967 - 48 additional houses were placarded "Unsanitary"
17 were renovated; 33 were demolished

Placarded Houses as at December 31st, 1967 = 65.

Notices Issued: Verbal warnings 5,293
Formal notices 2,146

Complaints attended to:		
	Lack of heat	226
	Exterior By-law	33
	Other complaints	1,379
		1,638

62 Police Court Cases: 34 convictions; 16 withdrawals; 2 dismissals; 10 pending.

34 Police Court Convictions:

Insufficient heat (2)	59.90
9 convictions re exterior maintenance by-law (including 2 reprimands).	133.10
Failed to provide screen sashed (3)	62.90
Failed to exterminate bedbugs (2 including 1 reprimand)	8.30
Failed to install required plumbing fixtures (2 including 1 reprimand)	13.30
Failed to properly dispose of garbage (1)	23.30
Allowed placarded premises to be occupied (2)	51.60
Failed to make required repairs (11 including 2 reprimands)	209.70
Failed to provide storm sashes (1)	8.30
Total fines (including costs of Court) ..... $	570.40

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

Electrical Inspectors	hazardous wiring	80 buildings
Fire Inspectors	fire hazards	2 buildings
Building Inspectors	other safety hazards	51 buildings
Zoning Inspectors	zoning violations	1 building
Plumbing Inspectors	plumbing permits required	8 buildings
Weed Inspector		11 premises
	Total referrals in writing	153

Placarded Houses As at December 31st, 1956 = 67.

During 1957 - 48 additional houses were placarded "Unsanitary"
17 were renovated; 13 were demolished

Placarded Houses as at December 31st, 1957 = 85.

Notices Issued: Verbal warnings 3,293
Formal notices 2,146

Complaints attended to: Lack of heat 226
Exterior By-law 33
Other complaints 1,379

1,638

62 Police Court Cases: 34 convictions; 16 withdrawals; 2 dismissals; 10 pending.

34 Police Court Convictions:

Insufficient heat (2)	59.90
9 convictions re exterior maintenance by-law (including 2 reprimands).	133.10
Failed to provide screen sashes (3)	62.90
Failed to exterminate bedbugs (2 including 1 reprimand)	8.30
Failed to install required plumbing fixtures (2 including 1 reprimand)	13.30
Failed to properly dispose of garbage (1)	23.30
Allowed placarded premises to be occupied (2)	51.60
Failed to make required repairs (11 including 2 reprimands)	209.70
Failed to provide storm sashes (1)	8.30
Total fines (including costs of Court) ..... $	570.40

Violations of other by-laws discovered by our Inspectors and referred in writing to the proper departments for their actions

Electrical Inspectors	hazardous wiring	80 buildings
Fire Inspectors	fire hazards	2 buildings
Building Inspectors	other safety hazards	51 buildings
Zoning Inspectors	zoning violations	1 building
Plumbing Inspectors	plumbing permits required	8 buildings
Weed Inspector		11 premises

Total referrals in writing 153

DIVISION OF SANITATION & HYGIENE

		INSPECTIONS
OFFICES, WORKSHOPS AND FACTORIES		6,083
HAIRDRESSING ESTABLISHMENTS		986
LICENSED PREMISES:		
Billiard Parlors	159	
Bowling Alleys	50	
Hatcheries and Pet Shops	10	
Junk Yards	68	
Laundries	150	
Massage Parlors	83	
Poultry Keepers	2	
Second-hand Stores	337	
Skating Rinks	29	
Soap Manufacturing	4	
Tanneries and Hide Curing	11	
Theatres	33	
Undertaking Parlors	22	
Total licensed premises		958
OTHER INSPECTIONS:		
Air Pollution	156	
Comfort Stations	104	
Community Centres	328	
Garbage and Refuse	4,413	
Lanes, Streets and Lots	6,560	
Schools	16	
Swimming Pools	1,024	
Wading Pools	572	
Wells	26	
Workmen's Closets	1,154	
Miscellaneous	304	
Total Other Inspections		14,657
TOTAL NUMBER OF INSPECTIONS		22,684
INTERVIEWS		2,315
WATER SAMPLES		3,528
DELIVERIES		824
COMPLAINTS		1,316
PROSECUTIONS		4
PLANS APPROVED DURING THE YEAR		8
NOTICES:		
Verbal	5,632	
Letter	216	
Informal	502	
Specification	101	
Mandatory	232	
Total notices		6,683

DIVISION OF SANITATION & HYGIENE

INSPECTIONS

OFFICES, WORKSHOPS AND FACTORIES .....

RAILROADS ING ESTABLISHMENTS .....

LICENSED PREMISES:

Billiard Parlors .....
Bowling Alleys .....
Butcheries and Pet Shops .....
Junk Yards .....
Laundries .....
Massage Parlors .....
Poultry Keepers .....
Second-hand Stores .....
Skating Rinks .....
Soap Manufacturing .....
Tanneries and Hide Curing .....
Theatres .....
Undertaking Parlors .....

Total licensed premises

OTHER INSPECTIONS:

Air Pollution .....
Comfort Stations .....
Community Centres .....
Garbage and Refuse .....
Lanes, Streets and Lots .....
Schools .....
Swimming Pools .....
Wading Pools .....
Wells .....
Workmen's Cleaner .....
Miscellaneous .....

Total other inspections

TOTAL NUMBER OF INSPECTIONS .....

INTERVIEWS .....
WATER SAMPLES .....
DELIVERIES .....
COMPLAINTS .....
PROSECUTIONS .....
PLANS APPROVED DURING THE YEAR .....

NOTICES:

Verbal .....
Letter .....
Informal .....
Specification .....
Mandatory .....

Total notices

DEFECTS DISCOVERED AND DEALT WITH:

Bedding and Upholstery	1
Cleanliness, Lack of	247
Common Drinking Cups	76
Covered Waste Receptacles	181
Dampness	7
Drinking Facilities (Water)	67
Garbage and Refuse	2,235
Gas Installations	0
Heating: Lack of	37
" Furnaces & Equipment	4
" Chimneys, Ducts and Piping	0
Lanes, Streets and Lots	2,360
Lighting: Natural or Artificial	18
Noises	20
Overcrowding	0
Plumbing: Lack of	8
" Defective	46
" Illegally Installed	3
" Insufficient	10
" Dirty Fixtures	173
" Legible Signs, Lack of	74
" No Water Supply	8
" No Hot Water	33
" Privacy, Lack of	17
Pigeons and Poultry, Illegal	32
Rest Rooms: Lack of	3
" Dirty	19
" Furnishings	7
" Matron, Lack of	0
Rodents: Rats	20
" Mice, other	10
Smoke, Dust, Fumes, Odors	269
Soap and Towels, Lack of	96
Stagnant Water	7
Structural Defects: Roofs & Ceilings	9
" Eavestroughing & R.W.L.	1
" Cellars, floors, and walls	34
" Screen doors and windows	3
" Storm doors and windows	1
Swimming Pools, Wading Pools	93
Ventilation	29
Vermin	5
Workmen's Closets	159
Miscellaneous	314
Lack of X-Ray Cards	124
Total Defects and Irregularities	6,860

DEFECTS DISCOVERED AND DEALT WITH:

Bedding and Upholstery	1
Cleanliness, Lack of	247
Common Drinking Cups	76
Covered Waste Receptacles	181
Dampness	7
Drinking Facilities (Water)	67
Garbage and Refuse	2,215
Gas Installations	0
Heating: Lack of	37
" Furnaces & Equipment	4
" Chimneys, Ducts and Flying	0
Lanes, Streets and Lots	2,760
Lighting: Natural or Artificial	18
Noises	20
Overcrowding	0
Plumbing: Lack of	8
" Defective	46
" Illegally Installed	3
" Insufficient	10
" Dirty Fixtures	173
" Legible Signs, Lack of	74
" No Water Supply	8
" No Hot Water	33
" Privacy, Lack of	17
Pigeons and Poultry, Illegal	32
Rest Rooms: Lack of	3
" Dirty	19
" Furnishings	7
" Matron, Lack of	0
Rodents: Rats	20
" Mice, other	10
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" Eavestroughing & R.W.L.	1
" Cellars, floors and walls	34
" Screen doors and windows	3
" Storm doors and windows	1
Swimming Pools, Wading Pools	93
Ventilation	29
Vermin	5
Workmen's Closets	139
Miscellaneous	314
Lack of X-Ray Cards	129
Total Defects and Irregularities ..	6,560

CITY HEALTH DEPARTMENT

Summary of Expenditures, 1967.

Personal Services	$ 771,527.00
Outside Services	67,459.00
Materials, Supplies & Repairs	65,570.00
Equipment, Additions & Replacements	21,706.00
Other Expenses	10,178.00
Automobile Allowances	27,528.00
Total	$ 963,968.00

Expenditures by Branches Branch	Total	Salaries	Other Expenses
Administration and Statistics	$ 46,202.00	$ 42,784.00	$ 3,418.00
Communicable and Other Diseases	86,436.00	31,085.00	55,351.00
Inspection Services	169,975.00	153,843.00	16,132.00
Child Medical Services	40,710.00	6,122.00	34,588.00
Child Dental Services	120,090.00	91,350.00	28,740.00
Nursing Services	353,995.00	336,754.00	17,241.00
Health Service Extension	146,560.00	109,589.00	36,971.00
Total	$ 963,968.00	$ 771,527.00	$ 192,441.00

Sources of Revenue		%
National Health Grants	$ 93,478.00	9.7
Provincial Government Grant	90,265.00	9.4
Milk Control Board Grant	4,320.00	0.4
Social Allowance Act	138,732.00	14.4
City of Winnipeg	637,173.00	66.1
Total	$ 963,968.00	100

Cost per capita = $ 3.83

CITY HEALTH DEPARTMENT

Summary of Expenditures, 1967.

Personal Services	$ 771,527.00
Outside Services	67,459.00
Materials, Supplies & Repairs	85,270.00
Equipment, Additions & Replacements	21,706.00
Other Expenses	10,178.00
Automobile Allowances	27,528.00
Total	$ 983,968.00

Expenditures by Branches

Branch	Total	Salaries	Other Expenses
Administration and Statistics	$ 46,202.00	$ 42,784.00	$ 3,418.00
Communicable and Other Diseases	86,436.00	31,085.00	55,351.00
Inspection Services	169,975.00	153,843.00	16,132.00
Child Medical Services	40,710.00	6,122.00	34,588.00
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Total	$ 983,968.00	$ 771,527.00	$ 192,441.00

Sources of Revenue

		%
National Health Grants	$ 93,478.00	9.7
Provincial Government Grant	90,265.00	9.4
Milk Control Board Grant	4,320.00	0.4
Social Allowance Act	139,732.00	14.4
City of Winnipeg	637,173.00	66.1
Total	$ 963,968.00	100

Cost per capita = $ 3.83