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THE CITY OF CALGARY

DEPARTMENT OF PUBLIC HEALTH

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# 1969 ANNUAL REPORT

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## LOCAL BOARD OF HEALTH FOR THE CITY OF CALGARY

His Worship Mayor R. Sykes (Chairman)

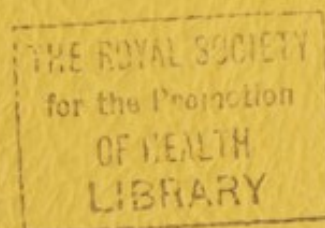
Dr. R. E. Hatfield

Dr. M. H. MacDonald

Mrs. C. Wearmouth

C. D. Howarth, City Engineer, Ex-officio

---



Medical Officer of Health, L. C. Allan, M.B., Ch.B., D.P.H.

Deputy Medical Officer of Health, Agnes E. O'Neil, M.D., D.P.H.

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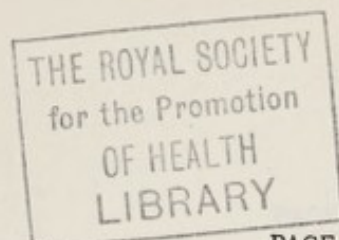
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STUDENT INSPECTION

STUDENT INSPECTION

His Worship the Mayor,  
City Commissioners,  
Members of City Council.

Gentlemen:-

I have the honour to present the Annual Report and Financial Statement of the City Health Department for the year 1969.

The Civic Census, enumerated in the early part of January 1969, revealed that there had again been a very substantial increase in population. The final tabulation of the population count revealed a figure of 369,025 persons. The over-all increase in population from the census of the previous year is 14,169 for a percentage increase of 4.0%. The boundaries of the City remained unchanged during the year at 155.8 square miles.

The natural increase of population during 1969 was 5,342 (i.e. 7,429 net births minus 2,087 net deaths). This figure represents an increase of 226 from that recorded in the previous year. It should be noted that the difference between the over-all population increase (14,169) and the natural increase (5,342), or 8,827, represents the approximate number of persons coming from other areas to take up City residence within the inter-census periods.

The very steady growth trend is shown over the last five years by the figures below.

<u>Year</u>	<u>Census Population</u>	<u>Over-all Increase</u>	<u>% Increase</u>	<u>Natural Increase Residents</u>	<u>+ Previous - Year</u>
1969	369,025	14,169	4.0	5,342	+ 226
1968	354,856	19,050	5.7	5,116	- 154
1967	335,806	-	-	5,270	+ 314
1966	335,806	24,690	7.9	4,956	- 297
1965	311,116	16,192	5.5	5,253	- 482

The rates appearing in the statistical tables of this report are based on the Civic Census population figures as recorded by the City Clerk of 369,025 for the calendar year 1969.

There were 4,000 marriages registered during the year representing a rate of 10.8 per thousand population. This shows an increase in the number of marriages performed over the previous year of 565. In the years to follow there will be a continuing rise in the number of marriages recorded in the City as the children born in the high birth rate period following World War II have now attained marriageable age.



His Worship the Mayor,  
City Commissioners,  
Members of City Council.

Gentlemen:-

I have the honor to present the Annual Report and Financial Statement of the City Health Department for the year 1933.

The City Census, conducted in the early part of January 1933, revealed that there had been a very substantial increase in population. The final tabulation of the population count revealed a figure of 105,512 persons. The overall increase in population from the census of the previous year is 14,114, or a percentage increase of 15.3%. The population of the City is estimated to have been 119,626 in 1932 against 105,512 in 1931.

The natural increase of population during 1932 was 2,352 in 1,459 net deaths (7,811 less deaths). This figure represents an increase of 100 from that recorded in the previous year. It should be noted that the difference between the net all population increase (7,811) and the natural increase (2,352), or 5,459, represents the approximate number of persons coming from other areas to live in the City within the 1932 census period.

The very steady growth trend is shown over the last five years by the figures below.

Year	Population	Net Increase	Natural Increase	+ Deaths - Year
1933	105,512	14,114	2,352	+ 338
1932	103,160	10,000	2,110	+ 122
1931	100,808	-	2,070	+ 112
1930	98,794	12,000	4,030	+ 201
1929	86,784	12,100	2,332	+ 25

The figures appearing in the statistical index of this report are based on the Civil Census population figures as recorded by the City Clerk of 1933 for the calendar year 1933.


There were 2,352 marriages registered during the year commencing a rate of 10.5 per 1,000 population. This shows an increase in the number of marriages registered over the previous year of 100. In the years to follow there will be a continuing rise in the number of marriages registered in the City as the calendar year in the next year period following 1933. It is hoped the attached will be of interest.

LIVE BIRTHS BY AGE OF MOTHER AND BIRTH ORDER - CALGARY RESIDENTS - 1969

2

AGE OF MOTHER	B I R T H O R D E R													TOTALS	PAIRS OF TWINS
	1st	2nd	3rd--	4th	5th	6th	7th	8th	9th	10th	11th	12th	14th		
Under 15 years	4													4	
15 - 19 years	738	139	9	1										887	8
20 - 24 years	1437	950	242	78	14	1	1							2723	23
25 - 29 years	580	756	534	195	74	18	7		1					2165	13
30 - 34 years	164	236	305	193	78	46	23	7	4	2				1058	7
35 - 39 years	53	78	86	104	80	38	14	18	4	2	2	1		480	9
40 years & over	5	8	16	31	21	12	6	5	4	2		1	1	112	2
TOTALS	2981	2167	1192	602	267	115	51	30	13	6	2	2	1	7429	62





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ILLEGITIMATE LIVE BIRTHS BY AGE OF MOTHER AND BIRTH ORDER - CALGARY - 1969

AGE OF MOTHERS	ORDER OF BIRTH										Total Number Of Infants Born To Unmarried Mothers	No. of Mothers Previously Married	
	1st		2nd		3rd		4th		5th & Over				
	Residents	Non-Res.	Residents	Non-Res.	Residents	Non-Res.	Residents	Non-Res.	Residents	Non-Res.			
14 Years	4										4	Residents	Non-Res.
15 Years	18	9									27	18	9
16 Years	**37	16	2								55	39	16
17 Years	59	40	3	1	2						105	64	41
18 Years	**105	*48	8	1							162	113	49
19 Years	*102	23	*16	3		1					145	118	27
20-24 Years	***243	85	*91	21	21	7	12	3	5	1	489	372	117
25-29 Years	32	7	32	2	*23	1	*25	4	*20	*11	157	132	25
30-34 Years	14	1	8		9	1	3	2	*19	7	64	53	11
35-39 Years	7				4		3		*10	4	28	24	4
40 Years & Over				1	1		2		3	3	10	6	4
TOTALS	621	229	160	29	60	10	45	9	57	26	1246	943	303
												177	19

A total of 17 sets of twins were born to unwed mothers:-

\*one set of twins in the group - \*\*two sets of twins in the group - \*\*\*three sets of twins in the group.



Notes: 1. The values in this column are based on the results of the tests of the material in the form of the  
 2. The values in this column are based on the results of the tests of the material in the form of the

Material	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
200	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
300	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
400	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
500	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
600	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
700	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
800	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
900	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1200	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1300	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1400	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1500	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1600	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1700	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1800	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1900	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2000	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Notes: 1. The values in this column are based on the results of the tests of the material in the form of the  
 2. The values in this column are based on the results of the tests of the material in the form of the

<u>Year</u>	<u>No. of Marriages</u>	<u>Rate per 1,000 Population</u>
1969	4,000	10.8
1968	3,435	9.7
1967	3,224	9.6
1966	2,788	8.3
1965	2,673	8.6

The gross number of births registered in the City in 1969 totalled 8,349 for a rate of 22.6 per thousand population. This gross figure includes births to females not normally resident within the City boundaries. In 1969 there were 7,429 registered births to City residents establishing a rate of 20.1 births per thousand population. This net figure is an increase of 245 births over the previous year (7,184). The births recorded in 1969 are 603 fewer than the all-time high figure of 8,032 in 1963 when the City population was but 276,975. The birth rate of 20.1 per thousand is a reduction of 0.1 in the rate recorded in the previous year (20.2). Despite a steadily rising population and a significant increase in the number of marriages, the number of births in the last several years has remained fairly constant. The increasing dissemination of information from many sources concerning birth control methods and family planning is undoubtedly a significant factor. It is interesting to note that in comparison to the birth rate of 20.1 per thousand population in 1969, the corresponding rate a decade ago was 40.2 per thousand of population.

Included in the total births (8,349) are 1,246 illegitimate babies representing 14.9% of all births occurring in the City Hospitals. This is an increase of 1.0% over that of the previous year. 943 was the total of illegitimate births recorded as City residents, or 12.6% of the net total births of 7,429. This figure of 943 is an increase over the previous year (877) of 66, or 0.4%. Of 920 babies born in Calgary but registered to non-resident females, 303 were illegitimate or 32.9%. This is an increase of 3.0%. In the statistical table it will be seen that in the age group 14 - 19 years there were 498 illegitimate births to girls classed as teen-agers, of whom 356 were City residents and 142 non-residents. In the age group 20 - 24 years there were 489 such births, with 372 City residents and 117 non-residents.

There were 17 sets of twins born to unwed mothers. 196 of the total unwed mothers had been previously married. Of the total of 1,246 unwed mothers, 850 had a first child in 1969.

The gross number of stillbirths registered was 101 for a rate of 12.1 per 1,000 live births. The net figure of 84 represents residents only for a rate of 11.3 per 1,000 live births. This is an increase in the

Year	Rate per 1,000 population	Rate per 1,000 population
1955	10.5	10.5
1950	9.1	9.1
1945	7.5	7.5
1940	6.3	6.3
1935	5.5	5.5

The above number of births registered by the City in 1955 for the year 1954 was 10.5 per thousand population. This figure includes births in houses and small buildings within the City boundaries. In 1954 there were 1,015 registered births in City boundaries including a rate of 10.1 births per thousand population. This rate figure is an increase of 0.4 births over the previous year (1953). The birth rate in 1953 was 9.7 per thousand population. The birth rate of 9.7 in 1953 was the lowest rate in the City since 1945. The birth rate of 10.1 per thousand in 1954 was an increase of 0.4 per thousand from the previous year (1953). During a steadily rising population and a significant increase in the number of births, the birth rate in the last several years has remained fairly constant. The registered number of births in the City has been approximately 10.1 per thousand population and family planning is undoubtedly a significant factor. It is interesting to note that in comparison to the birth rate of 10.1 per thousand population in 1954, the corresponding rate a few years ago was 5.5 per thousand population.

According to the birth rate (10.1) and 1,015 registered births in 1954, it is all birth occurring in the City boundaries. This is an increase of 0.4 per thousand from the previous year. But the rate of birth in the City boundaries is not constant, as 10.1 of the total of 1,015 registered births in 1954 was in houses and small buildings within the City boundaries. The birth rate of 10.1 per thousand population in 1954 was an increase of 0.4 per thousand from the previous year (1953). The birth rate of 9.7 per thousand population in 1953 was the lowest rate in the City since 1945. The birth rate of 10.1 per thousand in 1954 was an increase of 0.4 per thousand from the previous year (1953). During a steadily rising population and a significant increase in the number of births, the birth rate in the last several years has remained fairly constant. The registered number of births in the City has been approximately 10.1 per thousand population and family planning is undoubtedly a significant factor. It is interesting to note that in comparison to the birth rate of 10.1 per thousand population in 1954, the corresponding rate a few years ago was 5.5 per thousand population.

There were 11 deaths in the City in 1954. The rate of death was 1.1 per thousand population. This is an increase of 0.1 per thousand from the previous year (1953).

The above number of deaths registered was 1.1 per thousand population in 1954. The rate of death was 1.1 per thousand population. This is an increase of 0.1 per thousand from the previous year (1953).



rate recorded in the previous year for stillbirths of 3.0 and 2.1 respectively and a reversal of the pattern recorded in 1968.

#### VITAL STATISTICS

Gross Live Births	- 8,349	Birth Rate per 1,000 Population	- 22.6
Gross Stillbirths	- 101	S. B. Rate per 1,000 Live Births-	12.1
Net Live Births City Residents	- 7,429	Rate per 1,000 Population	- 20.1
Net Stillbirths " "	84	Rate per 1,000 Live Births-	11.3

There were 920 non-resident births and 17 non-resident stillbirths

Gross deaths during the year 1969 from all causes numbered 2,390. This gross figure includes deaths of persons both resident and non-resident in the City. When converted into a rate per thousand population, the figure is 6.5. This figure is actually nine below the total figure for 1968. The net deaths, or deaths recorded as occurring in persons resident within the City limits, numbered 2,087 for a rate of 5.6 per thousand population. This is the second year that the net death rate has been below the figure of 6.0 per thousand population. Deaths of non-residents recorded numbered 303.

The following Table shows the chief causes of death and is based on the gross deaths reported.

#### The Chief Causes of Deaths Are:-

1. Diseases of the heart and circulatory system (Code No. A 79 - A 86) accounted for 598 deaths. Vascular lesions affecting the central nervous system (Code No. A 70) accounted for 232 deaths.	598 + 232	= 830
2. Neoplasms - all forms (Code No. A 44 - A 60)		544
3. Diseases of the respiratory system (Code No. A 87 - A 97) i.e. Influenza, Pneumonia, Bronchitis, Emphysema, Bronchiectasis, Etc.		200
4. Violent and accidental deaths (Code No. AE 138 - AE 149)		197
5. Diseases of the digestive system (Code No. A 99 - A 107) i.e. Peptic Ulcers, Herniae, Appendicitis, Cirrhosis of Liver, Cholecystitis, Cholelithiasis, Etc.		113
6. Certain diseases of early infancy, including birth injuries, infections and prematurity (Code No. A 130 - A 135)		105
7. Congenital malformations - deaths in all age groups (Code No. A 127 A 129)		57
8. Diseases of the genito-urinary system (Code No. A 108 - A 114) i.e. Nephritis, Pyelitis, Renal Calculi, Prostatic Hypertrophy, Etc.		53
9. Diabetes Mellitus (A 63)		48

rate recorded in the previous year for all districts of 3.0 and 3.1 percent, twenty and a percent of the persons recorded in 1905.

### Final Statistics

Grand Total Deaths	1,000	1,000	1,000
Grand Total Deaths	1,000	1,000	1,000
Grand Total Deaths	1,000	1,000	1,000
Grand Total Deaths	1,000	1,000	1,000

These figures show the total number of deaths in the city for the year 1905, and the number of deaths in each of the districts.

The following table shows the chief causes of death in the city for the year 1905, and the number of deaths in each of the districts.

The following table shows the chief causes of death in the city for the year 1905, and the number of deaths in each of the districts.

### The Chief Causes of Death in the City

1. Diseases of the heart and circulatory system (Code No. A 19 - A 24)	1,000
2. Diseases of the respiratory system (Code No. A 25 - A 34)	1,000
3. Diseases of the digestive system (Code No. A 35 - A 44)	1,000
4. Diseases of the genito-urinary system (Code No. A 45 - A 54)	1,000
5. Diseases of the nervous system (Code No. A 55 - A 64)	1,000
6. Diseases of the sense organs (Code No. A 65 - A 74)	1,000
7. Diseases of the skin and subcutaneous tissue (Code No. A 75 - A 84)	1,000
8. Diseases of the bones and joints (Code No. A 85 - A 94)	1,000
9. Diseases of the muscles (Code No. A 95 - A 104)	1,000
10. Diseases of the blood (Code No. A 105 - A 114)	1,000
11. Diseases of the lymphatic system (Code No. A 115 - A 124)	1,000
12. Diseases of the endocrine system (Code No. A 125 - A 134)	1,000
13. Diseases of the reproductive system (Code No. A 135 - A 144)	1,000
14. Diseases of the embryonic and fetal period (Code No. A 145 - A 154)	1,000
15. Diseases of the perinatal period (Code No. A 155 - A 164)	1,000
16. Diseases of the neonatal period (Code No. A 165 - A 174)	1,000
17. Diseases of the infantile period (Code No. A 175 - A 184)	1,000
18. Diseases of the juvenile period (Code No. A 185 - A 194)	1,000
19. Diseases of the adult period (Code No. A 195 - A 204)	1,000
20. Diseases of the senile period (Code No. A 205 - A 214)	1,000



Deaths From Infective Diseases:-

1. Tuberculosis, Pulmonary (A 1), including deaths of Calgary residents in Sanatoria	2
2. Tuberculosis of Bones and Joints (A 4)	1
3. Congenital Syphilis (A 6)	1
4. Septicaemia and Pyaemia (A 20)	5
5. Meningococcal Infections (A 23)	1
6. Acute Infectious Encephalitis (A 29)	1
7. Infectious Hepatitis (A 34)	1
8. Gas Gangrene (A 43)	1

Diseases involving the heart and circulatory system together with vascular lesions of the central nervous system accounted for 863 deaths or 36.1% of all deaths recorded. Of the actual City residents in these categories, there were 762 deaths, representing a figure of 36.5% of the total City deaths.

Diseases of the cardiovascular system continue to occupy the leading place as the cause for ending human life despite remarkable achievements in the last twenty years in the realms of cardiac surgery. Arteriosclerosis and coronary disease are responsible for over 60% of all cardiac deaths. The incidence of death from heart disease from age 45 upwards is very much higher in the male sex than in the female. A reduction in the incidence of heart disease can be achieved if persons would pay heed to such advice as stopping tobacco smoking, avoidance of overweight by limiting the food intake and taking sufficient exercise to acquire a good standard of general physical fitness. A short period daily devoted to jogging, either inside or outside, or a brisk two-mile walk frequently is an excellent start in such a program. Too many people in midlife are overweight. Although obesity has never been finally established as a cause of high blood pressure or heart disease, it is very decidedly an important factor. From everyday observation it can be established that "old people are thin people". All health education literature emphasizes the importance of physical exercise and recreational pursuits involving bodily activities. It is only in this way that the heart and circulation retains its tone by being stimulated over the years.

In the number two position as the commonest cause of death in the statistical tables is malignant disease of all kinds. In 1969 malignant neoplasms in all forms accounted for 544 deaths or 22.7% of the total deaths recorded. There were 446 deaths of City residents attributable to malignant neoplasms or 21.3% of the total deaths. These figures are virtually the same





as in the previous year. Leukaemia deaths numbered 24 in residents. There were 14 deaths in males and 10 in females, accounting for 1.2% of all deaths.

During the year a total of 69 persons died in Calgary Hospitals as a result of Cancer of the Pulmonary System. This is one case fewer than in the previous year. This form of Cancer accounted for 3.0% of total deaths. Deaths of City residents from this cause numbered 59, with a sex distribution of 46 male and 13 females, accounting for 2.8% of all deaths. Deaths amongst males are always greater than in females. In 1969 the ratio was 3.5 males to 1 female. There is no doubt that the person who smokes cigarettes is at a decided risk of developing this condition than is the non-smoker. Clinical and autopsy studies have clearly established the fact that damage to the lungs occurs as the result of inhaling potential Cancer producing chemicals in cigarette smoke. A heavy smoker has at least thirty times the risk of developing a Lung Cancer than that of a non-smoker. This is ample evidence that cigarette smoking as a predisposing cause of precancerous cell changes in the bronchi and lung tissue is greater than any degree of atmospheric pollution presently existing in the whole Dominion at the present time.

To those who continue to smoke cigarettes, it should be emphasized the necessity of accepting a chest x-ray on a regular annual basis. Only by early detection by means of x-ray may the victims of Lung Cancer have even a slim chance of a successful cure.

Deaths attributable to diseases involving the respiratory system numbered 186 in City residents, accounting for 8.9% of total deaths. Bronchopneumonia together with atypical and unspecified Pneumonia accounted for 87 of the 93 deaths in this category, with 79 of these deaths in persons over 65 years of age. Chronic Bronchitis, including Emphysema, Bronchiectasis and allied chronic respiratory conditions accounted for a further 75 deaths, of which 61 were males and 14 females. The higher incidence of deaths due to respiratory conditions in males can be attributable to the influences of smoking and possibly associated with exposures to lung tissue irritants encountered during a lifetime of environmental working conditions to which the female is much less exposed. Again, it was in the age group over 65 years that these conditions exacted their greatest toll.

Deaths attributable to Influenza numbered 12, with 10 of the deaths in females in the age 45 to over 65 groups accounting for 9 of the deaths. Although many parts of Europe reported a very sharp Influenza epidemic at the close of the year, its expected spread to the North American Continent did not follow as might have been expected. Some cases of the A2 68 Hong Kong Influenza strain, so common in the previous year, were again identified, but no widespread outbreak of this disease occurred during 1969.

Violent and accidental deaths numbered 197, a decrease in the gross figures of the previous year of 22. 162 victims were City residents





with 35 being classified as non-residents. Deaths in this broad category in City residents accounted for 8.00% of all deaths recorded, down 0.41% from the year previous. Motor vehicle accidents accounted for 49 deaths of residents with the highest incidence in the age group 15 to 24 years. The ratio of males to females was 3.5 to 1. Traffic accidents accounted for 30.2% of all violent deaths and is one of the major hazards of today's society. Despite continuing publicity put out by agencies promoting all aspects of safety, there were 7 deaths due to poisoning, 1 to drowning, 2 due to machinery accidents with a further 13 due to miscellaneous accidental causes. Accidents are commonly considered to be due to chance, bad luck or carelessness. In the final analysis, it can usually be established in any subsequent investigation that there was a lack of due care exercised either by the victim or by those responsible for the victim. This is certainly very true where a child is concerned.

Suicides and self-inflicted injuries numbered 52 in 1969, 39 being males and 13 females, 39 of these incidents occurring in the age groups 25 - 64 years. There were 6 deaths recorded due to homicide. Suicides accounted for a rate of 0.14 per 1,000 population, or one such death for every 7,096 residents.

Deaths ascribed to ill-defined and unknown causes numbered in City residents 86 in 1969. With only a sketchy medical history being available to the physician called to see a body after death, without an autopsy it is virtually impossible to assign the cause of death to a defined classification.

In 1969 there were 132 deaths of infants in their first year of life, representing a net infant mortality rate of 17.8 per 1,000 live births, which is substantially lower than the National average. Birth injuries, infections, prematurity, immaturity and certain haemolytic diseases of the new born accounted for 88 of these deaths, or 66.6% of deaths in this category classed as City residents.

Infant deaths under one year of age representing residents and non-residents numbered 159 for a gross infant death rate of 19.0 per 1,000 live births.

92 infant deaths occurred within the first twenty-four hours of life, or 57.8% of the total; 23 or 14.4% of deaths occurred within the first week of delivery; 8 or 5.0% occurred within the first month after delivery; combined they represent 77.3% of total gross infant deaths.

There were no deaths related to pregnancy and childbirth in City residents during the year. One death did, however, occur due to sepsis following an abortion in a person classed as a non-resident. The maternal death rate





for City residents in 1969 was nil but 0.12 per 1,000 births as the gross maternal death rate. Today the risk to the mother undertaking childbirth is extremely low and reflects the advantages of the high standard of specialized care available in hospitals staffed with highly competent specialists.

Communicable diseases reportable for Dominion statistical purposes numbered 840 cases during the year.

Just before the end of the year there was an indication of an upswing in the number of cases of Measles occurring in the school population. A total of 216 cases was reported in 1969 with evidence that this would carry over in 1970. Of the 216 cases reported, 192 were in the age group 5 - 14 years, yet only 24 cases in the age groups under one year and up to age four years. In a cyclic epidemic year, this is a very low incidence of cases when compared with past epidemic periods when the cases reported were numbered in the thousands. This can be attributed to the large numbers of young children who have received anti-measles immunization since the Provincial Program commenced in 1966. No deaths from this disease were recorded in 1969.

There were 206 cases of Infectious Hepatitis during the year, with 1 death of a female in the age group 25 - 44 years. This is an increase in cases reported in the previous year of 79 cases and reflects the generally higher incidence reported in the Province as a whole. For every frank case of this disease diagnosed, there are probably five subclinical cases that may go unrecognized yet act as a continuing reservoir of infection within the community. Gamma Globulin inoculation was provided for all family contacts by the public health nurse in an effort to halt the spread within the affected family. Reporting of this condition is believed to be quite accurate, as, if not reported, the Gamma Globulin is not available for the immediate contacts.

Rubella cases reported during the year numbered 233, with 221 cases occurring in children up to 14 years of age. There were 12 cases reported in persons over 15 years.

There were 33 instances of Salmonella infections reported and investigated during the year. Cases were of a sporadic nature. In all instances, stool samples were obtained and submitted for laboratory investigation from all other members of the family in which a case occurred.

There were 4 cases of Meningococcal Meningitis during the year with 1 death of a child in the age 1 - 4 years group.

In 1969 there was a total of 29 new active cases of Tuberculosis discovered during the year and admitted to the Sanatorium for treatment, giving an overall rate of 7.8 per 100,000 for this condition. The rate for cases of Pulmonary Tuberculosis only is a new low of 6.8 per 100,000 population. 3 deaths were recorded giving Tuberculosis as the immediate cause of death. This



The City residence in 1968 was all but 0.1% per 1,000 births as the gross national death rate. Today the risk to the mother undergoing childbirth is considerably low and reflects the advantages of the high standard of specialized care available in hospitals allied with highly competent specialists.

Domestic Violence Statistics for Domestic Violence for the year 1968 were 500 cases during the year.

Just before the end of the year there was an indication of an increase in the number of cases of measles occurring in the school population. A total of 115 cases was reported in 1968 with evidence that this would carry over to 1969. Of the 115 cases reported, 101 were in the age group 5 - 14 years, but only 15 cases in the age group under the year and up to age four years. In a similar epidemic year, this is a very low incidence of cases when compared with past epidemic periods when the cases reported were numbered in the thousands. This can be attributed to the large number of young children who have received well-timed immunization since the introduction of measles vaccine in 1968. No deaths from this disease were reported in 1968.

There were 100 cases of infectious hepatitis during the year, with 1 death of a child in the age group 5 - 14 years. This is an increase in cases reported in the previous year of 10 cases and reflects the generally better health reported in the Province as a whole. For every 1000 cases of this disease reported, there are probably five additional cases that may go unreported, but as a continuing source of infection within the community, the health authorities are provided for all family contacts by the health authorities in an effort to halt the spread within the affected family. The number of cases reported is believed to be quite accurate, as it is reported, the disease is not available for the immediate contacts.

There were 100 cases reported during the year numbered 115, with 11 cases occurring in children up to 14 years of age. There were 11 cases reported in children over 14 years.

There were 11 cases of infectious hepatitis reported and investigated during the year. Cases were of a sporadic nature. In all instances, exact weights were obtained and submitted for laboratory investigation. All other patients at the facility in which a case occurred.

There were 1 case of rheumatic fever during the year with 1 death of a child in the age 5 - 14 years group.

In 1968 there was a total of 13 new active cases of tuberculosis diagnosed during the year and admitted to the Sanatorium for treatment. Giving an overall rate of 1.5 per 100,000 for this condition. The rate for cases of tuberculosis reported only is a new low of 0.5 per 100,000 population. Deaths were reported giving tuberculosis as the immediate cause of death. This

is a further decrease of some 15 cases from the previous year, continuing a trend which has been in evidence now for a number of years in the south part of the Province. Much time and effort is spent by the nurses, particularly in the Tuberculosis Division, in the follow-up of ex-patients and Tuberculin positive reactors to keep their regularly scheduled follow-up x-ray appointments. Despite the ready availability of services to provide a chest x-ray at no cost, far too few persons make a point of using it. Only a few minutes and the effort to go to a Mobile X-Ray Clinic or the Unit in the Health Department are required once a year to be assured that the lungs show no sign of this disease.

Over 19,000 school children were skin-tested in our school program.

During 1969, 14,686 persons, or 3.9% of the population, visited the X-Ray Unit at the City Hall and had a chest x-ray. 874 of the films taken showed abnormalities, including one probable neoplasm. No new active cases were discovered as a result of persons attending this X-Ray Unit. The response to the Mobile Chest X-Ray Unit offering chest x-rays and Tuberculin Tests in selected residential subdivisions was again disappointing. Only 6,517 persons visited the Mobile Unit in response to house canvassing. 5,839 persons accepted a Tuberculin skin test.

The incidence of Venereal Diseases showed a slight increase over the previous year. Confirmed cases of Gonorrhoea numbered 779, for a rate of 211.1 per 100,000 population. There were 691 cases in the previous year, for a rate of 191.9 per 100,000 population. Cases of Syphilis in all forms numbered 24 for a rate of 6.5 per 100,000. Cases of Syphilis confirmed numbered 18 males and 6 females, with only one case in the age group under 20 years.

In the age group 15 - 19 years there were 82 cases of Gonorrhoea, 59 male and 23 female. The age group 20 - 24 recorded 234 cases, with 463 cases in the age groups 25 - 65 years. Despite a rising incidence of Venereal Diseases being recorded throughout the world in the last several years, this increase is not being reflected locally. With the maintenance of a walk-in Social Hygiene Diagnostic and Treatment Centre in the City providing free treatment, there is no excuse for anyone neglecting to have a sore or discharge in the region of the genitalia checked and investigated without delay.

Poison Control Centres are established in the four General Hospitals providing Emergency Medical Service Departments. All maintain a 24-hour service, from which doctors may obtain information about the multiplicity of organic and inorganic substances having poisonous properties when taken accidentally internally. Each year sees a new batch of complex organic products manufactured and used which add extra hazards to the life and safety of young, inquisitive children. From the report of the Provincial Poison Control Service for 1969, there were 4,388 accidental poisoning incidents reported.





REPORT OF THE PROVINCIAL POISON CONTROL SERVICES FOR 1969  
Accidental Poisonings in the Province of Alberta in 1969

C A T E G O R I E S	0 - 4 years		5 - 14 years		15-24 years		25-44 years		45 years & over		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
A. Drugs & Medicines for External Use	179		12		13	1	5		8		217	1
B. Drugs & Medicines for Internal Use	1722	1	120		569	6	406	10	156	9	2973	26
C. Household Chemicals	527		17		15		5		6	1	570	1
D. Industrial, Auto and Fuel	88	3	33		35	9	52	28	39	27	247	67
E. Poisonous Plants & Venomous Animals	26		7				1				34	
F. Pesticides	137		20	2	7	2	9	3	6		179	7
G. Tobacco & Alcohol	28		10		8		12	2	13	7	71	9
H. Miscellaneous	30		11		33		18	3	5	1	97	4
Totals	2737	4	230	2	680	18	508	46	233	45	4388	115

Cases of Accidental Poisonings in Calgary in 1969

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Calgary General Hospital	37	54	59	56	48	59	62	46	48	73	107	51	700
Foothills Hospital	30	31	11	44	39	16	37	26	27	41	41	33	376
Holy Cross Hospital	21	25	25	34	35	40	27	21	19	19	38	25	329
Rockyview General Hospital	15	16	17	6	14	23	12	21	20	17	28	11	200
Totals	103	126	112	140	136	138	138	114	114	150	214	120	1605

**REPORT ON THE RESULTS OF THE INVESTIGATION OF THE 1967  
ACUTE CASES OF POLIO IN THE 1-7 YEARS OF AGE IN 1967**

Age	0-1 years		1-2 years		2-3 years		3-4 years		4-5 years		5-6 years		6-7 years		Total	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
1. Polio	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2. Polio	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3. Polio	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
4. Polio	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
5. Polio	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
6. Polio	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
7. Polio	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
8. Polio	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
9. Polio	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
10. Polio	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

**Table of Acute Cases of Polio in 1967**

Age	Boys	Girls	Total
0-1 years	10	10	20
1-2 years	10	10	20
2-3 years	10	10	20
3-4 years	10	10	20
4-5 years	10	10	20
5-6 years	10	10	20
6-7 years	10	10	20
Total	100	100	200



DEATHS FROM ACCIDENTAL POISONING IN CALGARY - 1969

	1 - 4		5 - 14		15-24		25-44		45-64		65 yrs. & over		Total
	M	F	M	F	M	F	M	F	M	F	M	F	
1. Drugs and Medicines for Internal or External Use (Salicylates)		1											1
2. Household Chemicals (Moth Balls, Copper Plating Solution)		1		1									2
3. Carbon Monoxide Poisoning From Car Exhaust Fumes (In a closed space)							2		2			1	5
Totals		2		1			2		2			1	8

SELF INFLICTED DEATHS (SUICIDES) IN CALGARY - 1969

	14 years.		15-24		25-44		45-64		65 yrs. & over		Total
	M	F	M	F	M	F	M	F	M	F	
1. Gunshot wounds	2	*1	*4		8		8				23
2. Car exhaust fumes			1	1	6	1	2	1			12
3. Overdose of drugs (sedatives, anti-depressants, etc.)				1	2	2				1	6
4. Hanging			1		1	1	3				6
5. Household chemicals (strychnine, carbon tetrachloride)				2		1					3
6. Jumping from buildings					1	1					2
7. *Drowning						1					1
Totals	2	1	6	4	18	7	13	1		1	53

\*The suicide by drowning is a late reporting of a death occurring in September 1968.

\*In the gunshot suicides, a 14 year old girl and a 17 year old boy were known users of Marihuana and the latter also a user of L.S.D.





There was a total of 1,605 accidental poisoning incidents in Calgary during 1969, with a total of 8 deaths. This represents an average of four poisoning incidents within the population daily the year round. The age group 0 - 4 years accounts by far for the highest incidence of cases. In this age group in the City 2 deaths occurred during the year due to accidental poisoning. The public health nurses make a follow-up home visit to every case of accidental poisoning reported in the age group under four years. The nurse and parent review the circumstances leading up to the incident and check the safety precautions to be taken by means of safety pamphlets that the house is "poison proofed" against a subsequent incident. Aspirin compounds, both children and adult variety, are possibly the most common single substance involved in home poisoning incidents. It is remarkable how many potential accident hazards the nurse is able to point out to the parent during a visit of this kind, and for that matter during any routine home visit. Only by awareness of the potential home hazards will we be able to prevent the rising rate of accidental poisoning incidents.

The Dental Division was under a handicap during 1969 in that it was understaffed by two dentists and two dental hygienists for half the year. In the treatment program, 4,872 teeth were restored to healthy functioning units and 880 teeth were extracted. In the school program, 4,121 cases were completed together with 5,469 case completions in the pre-school group. A total of 301 teeth required crowns for restoration and 149 space maintaining appliances were fitted. 87 children were fitted with orthodontic appliances. Dental hygienists provided examination, prophylaxis, topical fluoride applications and parent-child educational talks to 7,024 school children and 5,989 pre-school children. A further 2,124 children received dental health talks and instruction in proper oral hygiene methods in school classrooms.

It is only by utilizing all avenues of approach on preventive methods that we can hope to conquer dental decay. In an age when medical science moves from one triumph to another, dental disease in the form of tooth decay still remains the most common disease of all. Only by utilizing every known and proven measure to prevent dental decay will we make a significant advance in its control. To this end the Provincial Government makes free fluoride supplements available to all children where the parents obtain a prescription for same from a doctor or dentist. In 1969, 14,023 bottles of fluoride tablets and a further 13,871 bottles of liquid fluoride supplement were dispensed. This represents a comparatively small number of children regularly receiving this supplement to combat dental decay. No significant reduction in tooth decay will be achieved in this community so long as the initiative for administering fluoride supplements remains a home based program. It is now twenty-five years since the first programs utilizing municipal water supplies for the enrichment of drinking water to a value of fluoride ion at 1.00 parts per million went into effect. It is a well-known fact that now over 6.6 million people in Canada, representing 31% of the population, are using fluoride supplements in the municipal water supplies in the fight against tooth decay. Some of the major cities

There was a total of 1,505 accidental poisoning incidents in Calgary during 1969, with a total of 8 deaths. This represents an average of four poisoning incidents within the population daily the year round. The age group 0 - 4 years accounts by far for the highest incidence of cases. In this age group in the City 5 deaths occurred during the year due to accidental poisoning. The public health nurses make a follow-up home visit to every case of accidental poisoning reported in the age group under four years. The nurse and parent review the circumstances leading up to the incident and check the safety precautions to be taken by means of safety pamphlets that the house is "poison proofed" against a subsequent incident. Aspirin compounds, both child and adult variety, are possibly the most common single substance involved in home poisoning incidents. It is remarkable how many potential accidents have been averted by the nurse's ability to point out to the parent during a visit of this kind, and for that matter during any routine home visit. Only by awareness of the potential home hazards will we be able to prevent the rising rate of accidental poisoning incidents.

The Dental Division was under a handicap during 1969 in that it was understaffed by two dentists and two dental hygienists for half the year. In the treatment program, 4,812 teeth were restored to healthy functioning units and 889 teeth were extracted. In the school program, 4,151 cases were completed together with 2,469 case completions in the pre-school group. A total of 301 teeth required crowns for restoration and 149 space maintaining appliances were fitted. 87 children were fitted with orthodontic appliances. Dental hygienists provided examination, prophylaxis, topical fluoride applications and parent-child educational talks to 7,034 school children and 2,889 pre-school children. A further 1,124 children received dental health talks and instruction in proper oral hygiene methods in school classrooms.

It is only by utilizing all avenues of approach on preventive methods that we can hope to combat dental decay. In an age when medical science moves from one triumph to another, dental disease in the form of tooth decay still remains the most common disease of all. Only by utilizing every known and proven measure to prevent dental decay will we make a significant advance in its control. To this end the Provincial Government makes free fluoride supplements available to all children where the parents obtain a prescription for same from a doctor or dentist. In 1969, 140,023 bottles of fluoride tablets and a further 11,871 bottles of liquid fluoride supplement were dispensed. This represents a comparatively small number of children regularly receiving this supplement to combat dental decay. No significant reduction in tooth decay will be achieved in this community so long as the initiative for administering fluoride supplements remains a home based program. It is now twenty-five years since the first program utilizing municipal water supplies for the enrichment of drinking water to a value of 1.00 parts per million went into effect. It is a well-known fact that now over 8.5 million people in Canada, representing 31% of the population, are using fluoride supplements in the municipal water supplies in the fight against tooth decay. Some of the major cities



in Canada include Toronto, Winnipeg, Edmonton, Ottawa, Windsor, Hamilton, Halifax and Saskatoon, who are using this valuable preventive health measure. Fluoridation has been endorsed as an effective preventive measure against dental decay. Fluoride should be added to all sources of public water supplies where the natural content is not sufficient to assure proper protection against tooth decay. It has been regularly endorsed as a preventive measure by all health oriented professional and voluntary groups, including the World Health Organization, yet it was again rejected in Calgary in the 1966 plebiscite.

It is obvious that the home-initiated fluoride supplement program is reaching only a small proportion of the children in the City. Fluoridation of the municipal water supply, the only effective method of control for dental decay, must be endorsed by a simple majority of the citizens at a plebiscite, however.

Highly specialized equipment to monitor certain pollutant materials in the atmospheric air is provided by the Provincial Department of Health in selected fixed locations across the City, thus providing readings of pollutant substances in residential, commercial and industrial areas. The pollutant materials under monitoring review are Dustfall (11 locations), Hydrogen Sulphide (7 locations), Total Sulphation (11 locations), Fluorides (4 locations), Suspended Particulate Matter Soiling Index (4 locations), Oxides Nitrogen (one continuous monitoring machine) Total Oxidant (one machine recording continuously over each twenty-four hour period) and one machine for obtaining twenty-four hour samples of Suspended Particulate Matter.

Dustfall samples collected in open-topped cylindrical containers are expressed in units of tons per square mile per 30 days. Dustfall readings showed a decrease of approximately 3% over the readings for 1968. The lowest yearly average total dustfall of 8.00 tons/sq. mile/30 days was recorded at Station #2 in a residential area; whereas the highest average reading, 39.5 tons/sq. mile/30 days, was in the station located at the City Hall classified as a commercial area. The lowest figures are obtained during the winter months when the snow is on the ground and the highest readings occur in the summer months.

Readings for Hydrogen Sulphide on a combined yearly average were approximately 13% lower than the corresponding values in 1968. The overall yearly average of all stations showed a reading of 0.054 SO<sub>3</sub> equivalent mg. per day per 100 sq. cm. The lowest yearly average value of 0.030 SO<sub>3</sub> equivalent mg./day/100 sq. cm. was recorded at Station #2 and the highest reading of 0.091 SO<sub>3</sub> equivalent/mg./day/100 sq. cm. at Station #5 in the region of the oil refineries.

The average concentration of Sulphur bearing compounds (Total Sulphation) expressed as SO<sub>3</sub> equivalent/mg./day/100 sq. cm. was some 26% higher than the readings of the previous year. The overall average of the eleven stations for the year was 0.376 SO<sub>3</sub> equivalent/mg./day/100 sq. cm. Station #5 in the region of the refineries, with an average of 0.610 SO<sub>3</sub> equiv-

In Canada include various, although somewhat, different, features. The most common is the "Canadian" type, which is characterized by a high, rounded, and somewhat flattened top, with a broad, flat, and somewhat irregular base. The sides are usually straight, and the bottom is often slightly concave. The color is usually a light brown or tan, and the texture is smooth. The size is usually between 1 and 2 inches in diameter. The shape is usually somewhat irregular, and the edges are often slightly rough. The material is usually a soft, spongy material, and the weight is usually between 1 and 2 ounces. The shape is usually somewhat irregular, and the edges are often slightly rough. The material is usually a soft, spongy material, and the weight is usually between 1 and 2 ounces.

It is interesting to note that the shape of the "Canadian" type is very similar to the shape of the "American" type, which is also a common type of stone. The "American" type is usually a light brown or tan color, and the texture is smooth. The size is usually between 1 and 2 inches in diameter. The shape is usually somewhat irregular, and the edges are often slightly rough. The material is usually a soft, spongy material, and the weight is usually between 1 and 2 ounces.

There are many other types of stones, and each type has its own unique characteristics. Some stones are very smooth, while others are very rough. Some stones are very light in color, while others are very dark. Some stones are very soft, while others are very hard. Some stones are very small, while others are very large. The shape of the stones is also very varied, and each type has its own unique shape. The material of the stones is also very varied, and each type has its own unique material. The weight of the stones is also very varied, and each type has its own unique weight.

Another common type of stone is the "British" type, which is usually a light brown or tan color, and the texture is smooth. The size is usually between 1 and 2 inches in diameter. The shape is usually somewhat irregular, and the edges are often slightly rough. The material is usually a soft, spongy material, and the weight is usually between 1 and 2 ounces. The shape is usually somewhat irregular, and the edges are often slightly rough. The material is usually a soft, spongy material, and the weight is usually between 1 and 2 ounces.

There are many other types of stones, and each type has its own unique characteristics. Some stones are very smooth, while others are very rough. Some stones are very light in color, while others are very dark. Some stones are very soft, while others are very hard. Some stones are very small, while others are very large. The shape of the stones is also very varied, and each type has its own unique shape. The material of the stones is also very varied, and each type has its own unique material. The weight of the stones is also very varied, and each type has its own unique weight.

The shape of the stones is also very varied, and each type has its own unique shape. The material of the stones is also very varied, and each type has its own unique material. The weight of the stones is also very varied, and each type has its own unique weight.



alent mg./day/100 sq. cm. was again the station with the highest average readings. The highest readings occur during the winter months and are lowest in the summer and fall.

Fluoride averages showed a slight increase over the 1968 readings, with a yearly average for the four stations recording 0.007 mg. per 100 sq. cm. per 30 days. The highest reading during the year was 0.030 mg./sq.cm./30 days during the month of March at Station #10.

Suspended Particulate Matter Soiling Index readings, collected on two-hour sampling cycles, showed a slight increase over the readings of the previous year. Readings in the downtown area, recorded at the #1 Station at City Hall, consistently show the highest readings, with a yearly mean reading of 0.432 COH Units. In contrast, the three other stations recorded mean average readings very much lower, as illustrated with Station #12 recording 0.170 COH Units, Station #13 recording 0.148 COH Units and Station 14 recording 0.195 COH Units. The maximum peak hourly reading of 4.300 COH Units was recorded at Station #1 during the month of November. Two of the stations in the Highfield Industrial Area and the North Hill recorded a decrease in the yearly average values when compared to the previous year.

On one day in both June and July, under a special burning permit issued by the Province, some 60,000 derelict automobiles accumulated at the Navajo Metals storage compound were burned to facilitate their processing in the fragmentizing mill. On both these occasions, heavy volumes of smoke lasting for up to ten hours resulted. These burns, however, enabled the processing of these derelict cars during the subsequent months with the metal recovered being processed by a local steel company. In spite of these very large "open burns", June and July were the two months in the year with the lowest readings for soiling index, being 0.155 COH Units and 0.146 COH Units as over-all monthly averages.

Suspended Particulate Matter was measured on 50 occasions over a full twenty-four hour period on a random basis by the machine located in the Administration Building. In 1969 only the winter quarter, with an average of 71.0 micrograms per cubic meter of air, was below the levels recorded in the previous year. The Suspended Particulate Matter reading in the spring quarter was 186.6 micrograms, 118.6 micrograms in the summer and 147.5 micrograms in the fall, for an over-all yearly average of 131.0 micrograms. Where readings below 100 micrograms per cubic meter can be achieved during the winter months, this should be the goal to reach during the rest of the year. Possibly a stepped-up street flushing and street sweeping program would result in a reduction in the atmospheric particulates.

In August 1969 the new continuous recording instruments assessing Total Oxides of Nitrogen and Nitrogen Dioxide went into operation at the City Hall location. Oxides of Nitrogen and Nitrogen Dioxide measurements provide a





pulse of the levels of air pollutants resulting from the automobile. The monthly mean readings for total Nitrogen Oxides ranged from 0.016 p.p.m. in August to 0.064 p.p.m. in November. Nitrogen Dioxide monthly average levels ranged from 0.012 p.p.m. in August to 0.019 p.p.m. in October. This being the first records obtained of these pollutants, there is no basis for past comparison.

Total Oxidant levels for the year were up approximately fifty percent over the 1968 readings. Oxidant expressed as Ozone is a measure of the oxygen containing substances that are available for the oxidizing reactions in photochemical smog. The mean monthly Oxidant level for the year was 0.601 parts per hundred million, with the highest monthly mean figure of 1.234 p.p.h.m. being recorded in August. The highest readings for Oxidant occur in the summer with its greater number of hours of sunshine. September recorded the peak hourly reading in 1969, with a value of 9.960 p.p.h.m. Oxidant is again chiefly derived from pollutants resulting from the automobile.

The chief source of the pollutants of the atmospheric air within the City of Calgary results from the very large number of internal combustion engines using gasoline and diesel oil as fuels. The levels of total Oxides of Nitrogen together with the Oxidant levels reacted on by sunshine provide the components for photochemical smog within the river valley. This complex chemical haze factor is visible to the naked eye to a greater or lesser extent on certain days of the month, particularly in the fall and winter months. It is of considerable interest to note that these build-up periods invariably coincide with periods of atmospheric inversions. Despite the fact that the levels of such pollutants as Sulphation, Fluorides and Oxidant were higher than in the previous year, dustfall levels and Hydrogen Sulphide were lower. The values of all pollutant indices as measured are generally well within accepted levels.

With the increasing emphasis and time involved in matters concerning all forms of environmental pollution, the time has perhaps now come when a full-time experienced pollution control engineer should be appointed for the City to work in conjunction with the Provincial Health Department engineering staff.

It was again a very busy year for the staff engaged in the preventive services provided in the community, school and preschool divisions. The Public Health Nurses visited 6,538 new born children and the mother in their homes to provide counselling services and health information. Visits numbering 12,096 were made to adults in the community concerning communicable diseases, mental health concerns, investigations into problems relating to old age, Tuberculosis control as requests for progress by physicians, investigations into accidental poisoning incidents and a variety of other reasons. 1598 home visits were made to persons wishing further information on matters of family planning.





In the schools the nurses held counselling sessions with some 36,120 students and had conferences with teachers concerning 22,075 students.

41,843 health inspections and interviews were conducted on school pupils. 62,000 Vision tests were conducted in the schools with 6,978 pupils referred for further examination and assessment by an ophthalmologist or optometrist. 10,728 individual audiometer tests were performed on students chiefly in Grade III with 308 referrals to Ear specialists for further investigation and assessment.

In the Grades I and IX, 20,519 Heaf Tests for Tuberculosis appraisal were done with 371 showing positive reactions and requiring further follow-up investigation of parents and siblings.

35,769 received a dental inspection resulting in 8,755 pupils being referred to their family dentist for treatment. Provision of first aid for minor troubles and accidents was provided for 21,913 pupils and 3,195 pupils were interviewed concerning communicable diseases, chiefly, exclusions to prevent spread to other pupils.

3,530 teachers and janitors were skin tested for Tuberculosis control, 192 positive reactors were found. 1696 adults working with school pupils were given a chest X-ray.

In the immunization programme in the schools in the City, 2,879 children received a booster dose of Diphtheria toxoid, 3,172 doses of Tetanus toxoid were administered with 4,157 Sabin doses being given. 2,557 revaccinations were also performed.

The Child Health Service Clinics had a total attendance of infants and preschool children in 1969 of 47,177. 26,177 preschool consultations were conducted and a further 21,000 infants were brought to the various clinic locations by their parents. 11,159 doses of Diphtheria, Pertussis, Tetanus and Polio vaccine were administered to infants with a further 14,573 doses of Killed Measles vaccine also administered. The immunization programme carries over into the preschool age groups. 4114 preschool children were given live measles vaccine with 4,495 primary vaccinations also being administered.

In May 1969 the City operated Family Planning Clinic commenced operation as a cost sharing project under the Preventive Social Services Agency. Attendances whilst small in the early stages continued to grow steadily during the year. 119 persons have received services through the clinic staff. A total of 181 clinic visits were recorded in the first seven months of operation. Free birth control supplies are provided according to a means test. Those not qualifying under the means test are given a prescription which is filled at a drug store.

In the school the number of students attending was 10,150 students and had 1,000 teachers and 1,000 staff.

At 10:15 with the beginning of the school day, the students were in the school with 1,000 teachers and 1,000 staff. The students were in the school with 1,000 teachers and 1,000 staff. The students were in the school with 1,000 teachers and 1,000 staff.

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In the Environmental Control Division, a mention of some of the work will illustrate that a continuous inspection service is ever alert in the protection of the public. 6,715 inspections were conducted on restaurants, with 2,728 inspections on grocery stores. Butcher shops were inspected on 1,174 occasions with 1,095 checks conducted on bake shops and bakeries.

The Health Department Laboratory performed 11,992 tests on the water samples collected at various points in the water distribution system to ensure purity of supply. 13,409 tests were performed on 1,211 well water samples submitted for routine examination. On restaurant and beverage room utensils 3,735 swab tests were performed. 2,032 milk samples were examined, receiving 20,826 tests. A total of 74,775 tests were performed during the year in the Laboratory.

During the year the Department provided field work experience for those dental auxiliaries in training at the School of Dental Hygiene in Edmonton. Opportunity was provided for nurses in training in Calgary Hospitals to receive a period of instruction and observation with the public health nursing staff as in past years.

The Department would again wish to pay tribute to the ladies who have volunteered their time to assist nurses in the well baby clinics and to act as recorders.

The Department is most appreciative of the help, advice and guidance given throughout the year by the following:-

His Worship the Mayor, Board of Commissioners and Members of City Council,  
Members of the Calgary Public and Separate School Boards,  
Superintendents and staffs of the Provincial Sanatoria and Mental Hospitals and Institutions,  
Alberta and Calgary (Kinsmen's Club) Tuberculosis and Respiratory Disease Association,  
Provincial Cancer Clinic,  
Provincial Guidance Clinic,  
Provincial Social Hygiene Clinic,  
Provincial Department of Public Health,  
The Director and staff of the Provincial Laboratory of Public Health, Southern Branch,  
The Calgary Branch of the Victorian Order of Nurses,  
The Calgary General Hospital and Holy Cross Hospital and staffs,  
The Foothills Provincial Hospital and staffs,  
The Calgary Press, Radio and Television Stations, and to the many volunteer workers in the City.

In closing, this report, a word of thanks must go to all the





many members of the staff of the Health Department because without their loyalty, co-operation and the painstaking way in which their duties have been discharged, the Medical Officer of Health would have no accomplishments to report.

Respectfully submitted,

Leslie C. Allan, M.B., Ch.B., D.P.H.,  
Medical Officer.

very members of the staff of the British Legation in London, and the Government of the United Kingdom, have been charged, the British Legation in London would have no responsibility to report.

Respectfully submitted,

John G. Allen, M.D., F.R.C., F.R.S.,  
British Legation



## 1969 ANNUAL REPORT

CITY HEALTH DEPARTMENT FAMILY PLANNING CLINIC

Agnes E. O'Neil, M.D., D.P.H.,  
Deputy Medical Officer of Health.

On May 15, 1969, The City of Calgary Health Department opened a Family Planning Clinic. This is a project approved and funded as a Preventive Social Service to which the City of Calgary contributes 20% of the budget while the Province of Alberta contributes 80%.

The clinic is held one evening a week in the City Hall where the Child Health Centre is held in the daytime. On the staff are a receptionist, social worker, public health nurse and gynecologist.

The gynecologist on duty serves in rotation. Six gynecologists on the staff of the Calgary General Hospital take turns. The project is co-ordinated by the assistant medical officer of health.

Patients are referred by Public Health Nurses, social workers, family physicians and friends. Anyone is eligible to come to the clinic for information, examination and advice but free supplies are available only to those qualifying under a means test:

\$300 a month - a couple with no children  
\$400 a month - a couple with 1 child  
\$425 a month - a couple with 2 children  
\$450 a month - a couple with 3 children  
\$475 a month - a couple with 4 children  
\$500 a month - a couple with 5 children  
\$525 a month - a couple with 6 children.

A full range of medically approved birth control information and services are available. Patients may choose their own method from among these: Hormonal contraceptives, intra uterine device, diaphragm and jelly, rhythm, condom, foam.

We have begun to see a need for a little more than this in a few of the cases which come to us and the social worker within limits of time deals with or refers family, and youth and sex problems.

At first numbers attending the clinic were small. In the five and a half months of operation in 1969, one hundred and nineteen persons were admitted to the clinic. Return appointments were kept very well so that a total of 181 patient visits were made to our clinic.



Statistics are gathered on source of referral, age, racial origin, education of patients, income, socio-economic status, age at first conception, number of living children, method initiated, referrals for vasectomy and tubal ligation, and these will be reported when we have been operating for a year.

Births registered in 1947, 19 were premature (the weight recorded as 5 lbs. or less) - this represents 0.2% of all births.

Year	Total Births	Births Total, Non-Residents	Rate per 1,000 Population	Births - Total, Residents Only	Rate per 1,000 Population
1946	348,873	8,704	23.6	7,835	21.1
1945	336,871	7,873	20.5	7,104	20.2
1944	328,796	8,007	24.0	7,201	21.7
1943	311,830	7,604	23.9	7,001	21.0
1942	300,714	7,000	23.4	7,001	21.3

#### ABORTIONS - 1943 TO 1949

Year	No. of Abortions Total; Non-Residents	Rate per 1,000 Live Births Crude	Abortions Residents Only	Rate per 1,000 Live Births Crude
1949	101	12.1	81	11.3
1948	72	9.1	68	9.3
1947	102	12.6	81	11.0
1946	71	9.4	61	8.5
1945	83	11.6	71	10.0

#### MARRIAGES - 1947 TO 1949

Number of marriages performed in the City of Calgary in 1949 was 4,400.  
Rate per 1,000 population = 10.8.

#### DEATHS AND MORTALITY-RATE - 1947 TO 1949

From all causes a total of 2,740 deaths were registered, a rate of 6.5 per 1,000 population, including 303 deaths of non-residents.

Year	Total Deaths Total; Non-Residents	Rate per 1,000 Population	No. of Deaths Residents Only	Rate per 1,000 Population
1949	2,740	6.5	2,437	6.8
1948	2,700	6.6	2,404	6.8
1947	2,701	6.6	2,401	6.5
1946	2,679	6.5	2,376	6.3
1945	2,675	6.5	2,381	6.3



distances are entered in terms of latitude, longitude, and elevation, and the nature of the terrain is described. The names of the places visited are given, and the names of the persons who accompanied the party are also given. The names of the persons who accompanied the party are also given.

# VITAL STATISTICS

## LIVE BIRTHS - 1965 TO 1969

Out of 8,349 live-born babies registered in 1969, 737 were premature (the weight recorded as 5½ pounds or less) - this represents 8.8% of all births.

Year	Population	Births Incl. Non-Residents	Rate per 1,000 Population	Births - Residents Only	Rate per 1,000 Population
1969	369,025	8,349	22.6	7,429	20.1
1968	354,856	7,937	22.4	7,184	20.2
1967	335,806	8,068	24.0	7,301	21.7
1966	335,806	7,694	22.9	7,064	21.0
1965	311,116	7,895	25.4	7,235	23.2

## STILLBIRTHS - 1965 TO 1969

Year	No. of Stillbirths Incl. Non-Residents	Rate per 1,000 Live Births Gross	Stillbirths Residents Only	Rate per 1,000 Live Births Net
1969	101	12.1	84	11.3
1968	72	9.1	66	9.2
1967	102	12.6	87	11.9
1966	74	9.6	62	8.8
1965	93	11.8	79	10.9

## MARRIAGES - 1969

Number of marriages performed in the City of Calgary in 1969 was 4,000.  
Rate per 1,000 population - 10.8.

## DEATHS AND MORTALITY RATES - 1965 TO 1969

From all causes a total of 2,390 deaths were registered, a rate of 6.5 per 1,000 population, including 303 deaths of non-residents.

Year	No. of Deaths Incl. Non-Residents	Rate per 1,000 Population	No. of Deaths Residents Only	Rate per 1,000 Population
1969	2,390	6.5	2,087	5.6
1968	2,399	6.8	2,068	5.8
1967	2,322	6.9	2,031	6.0
1966	2,379	7.1	2,108	6.3
1965	2,252	7.2	1,982	6.4

# TABLE 1

1950-1951 - 1951-1952

1. The following table shows the number of persons who were employed in the various occupations in the United States in 1950 and 1951. The figures are in thousands of persons.

Year	1950	1951	1952	1953	1954
Total	50,000	51,000	52,000	53,000	54,000
Manufacturing	15,000	15,500	16,000	16,500	17,000
Construction	5,000	5,200	5,400	5,600	5,800
Transportation	3,000	3,100	3,200	3,300	3,400
Wholesale and Retail Trade	10,000	10,200	10,400	10,600	10,800
Services	12,000	12,200	12,400	12,600	12,800
Government	2,000	2,100	2,200	2,300	2,400
Unemployed	13,000	13,200	13,400	13,600	13,800

1950-1951 - 1951-1952

Year	1950	1951	1952	1953	1954
Total	50,000	51,000	52,000	53,000	54,000
Manufacturing	15,000	15,500	16,000	16,500	17,000
Construction	5,000	5,200	5,400	5,600	5,800
Transportation	3,000	3,100	3,200	3,300	3,400
Wholesale and Retail Trade	10,000	10,200	10,400	10,600	10,800
Services	12,000	12,200	12,400	12,600	12,800
Government	2,000	2,100	2,200	2,300	2,400
Unemployed	13,000	13,200	13,400	13,600	13,800

1950-1951 - 1951-1952

2. The following table shows the number of persons who were employed in the various occupations in the United States in 1950 and 1951. The figures are in thousands of persons.

Year	1950	1951	1952	1953	1954
Total	50,000	51,000	52,000	53,000	54,000
Manufacturing	15,000	15,500	16,000	16,500	17,000
Construction	5,000	5,200	5,400	5,600	5,800
Transportation	3,000	3,100	3,200	3,300	3,400
Wholesale and Retail Trade	10,000	10,200	10,400	10,600	10,800
Services	12,000	12,200	12,400	12,600	12,800
Government	2,000	2,100	2,200	2,300	2,400
Unemployed	13,000	13,200	13,400	13,600	13,800



INFANT DEATHS AND MORTALITY RATES - 1965 TO 1969  
FIRST YEAR OF LIFE ONLY

	1969		1968		1967		1966		1965	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
Number of Infant Deaths	159	132	133	112	174	153	135	125	170	155
Rate per 1,000 Live Births	19.0	17.8	16.8	15.6	21.6	20.9	17.5	17.7	21.5	21.4

Gross - including non-residents; Net - residents only.

CAUSES OF INFANT DEATHS - 1965 TO 1969

Of the 159 infant deaths registered in 1969, 92 occurred within the first twenty-four hours of life, 23 deaths occurred after twenty-four hours but within the first week of life, and 8 deaths occurred after one week of life but within the first month of life; combined they represent 77.3% of the total infant deaths.

CAUSES OF DEATHS	1969	1968	1967	1966	1965
Immaturity and ill-defined diseases of early infancy (Code No. A 135)	75	62	83	47	71
Congenital malformations (Code No. A127 - A129)	37	32	41	37	37
Postnatal asphyxia and atelectasis (A 131)	11	1	7	9	11
Injuries at birth (A 130)	8	2	2	6	3
Haemolytic disease of the newborn (A 133)	6	1	1	4	3
Pneumonia and respiratory infections (Code No. A 87 - A 97, A 132)	5	16	11	12	11
Accidental causes (AE 138 - AE 147)	5	3	4	3	5
Gastro-intestinal disorders (intussusception, gastro-enteritis, peritonitis, intestinal obstruction- A 101 - A 107)	4	5	3	1	2
Septicaemia (A 20)	1	2			
Non-Meningococcal Meningitis (A 71)		2	1	1	1
All other and unknown causes	7	7	21	15	26
Total	159	133	174	135	170



## MATERNAL MORTALITY (INCLUDING NON-RESIDENTS)

1965 - 1969

Year	Live Births	Number of Maternal Deaths		Rate per 1,000 Live Births
		Resident	Non-Resident	
1969	8,349	-	1	0.12
1968	7,937	2	-	0.25
1967	8,068	-	1	0.12
1966	7,694	1	1	0.26
1965	7,895	1	-	0.13

## CAUSES OF MATERNAL DEATHS - 1968 - 1969

	Number Including Non-Residents		Residents Only	
	1969	1968	1969	1968
Sepsis of pregnancy and the puerperium	-	1	-	1
Toxaemias of pregnancy and the puerperium	-	-	-	-
Accidents of pregnancy and childbirth	-	1	-	1
Abortions, septic and non-septic	1	-	-	-
Other complications of pregnancy, childbirth and the puerperium	-	-	-	-



INTERNAL MORTALITY (1907-1908)

1907 - 1908

Year	Live births	Deaths	Infants of pregnant women	Total deaths
1907	2,712	1	1	2
1908	2,002	1	1	2
1909	2,002	1	1	2
1910	2,002	1	1	2
1911	2,002	1	1	2
1912	2,002	1	1	2

CAUSES OF INTERNAL MORTALITY - 1907 - 1908

Year	Live births	Deaths	Infants of pregnant women	Total deaths
1907	2,712	1	1	2
1908	2,002	1	1	2
1909	2,002	1	1	2
1910	2,002	1	1	2
1911	2,002	1	1	2
1912	2,002	1	1	2

REPORTED CASES AND DEATHS FROM TUBERCULOSIS  
1965 - 1969

Year	New Active Cases	Number Died In Calgary	Number Died In Sanatoria	Total Deaths	Death Rate Per 100,000 population
1969	29	1	2	3	0.8
1968	40	2	4	6	1.7
1967	40	-	3	3	0.9
1966	35	1	2	3	0.9
1965	33	5	2	7	2.2

REPORTED CASES AND DEATHS FROM CHICKENPOX, DIPHTHERIA,  
INFECTIOUS HEPATITIS, MEASLES, MENINGOCOCCAL MENINGITIS,  
PERTUSSIS, SALMONELLA INFECTION, ETC. - 1967 - 1969

Communicable Disease	C A S E S			D E A T H S			Mortality Rate Per 1000,000 Population		
	1967	1968	1969	1967	1968	1969	1967	1968	1969
Chickenpox	1,173	744	600	-	1	-	-	0.3	-
Diphtheria	-	-	-	-	-	-	-	-	-
Infectious Hepatitis	153	127	206	-	-	1	-	-	0.3
Measles	1,185	267	216	-	-	-	-	-	-
Meningococcal Meningitis	-	1	4	-	-	1	-	-	0.3
Pertussis	202	72	23	-	-	-	-	-	-
Salmonella Infection	31	27	33	-	-	-	-	-	-

## REPORTED CASES AND DEATHS FROM TUBERCULOSIS

1967 - 1969

Year	New Active Cases	Number Died in Culture	Number Died in Autopsy	Year	Death Rate Per 100,000 Population
1967	28	1	1	1967	0.8
1968	40	2	6	1968	1.1
1969	40	2	1	1969	0.9
1968	32	1	2	1968	0.9
1967	31	2	1	1967	0.9

## REPORTED CASES AND DEATHS FROM TUBERCULOSIS, HEPATITIS, INFECTION, MENINGITIS, MEASLES, MUMPS, POLIO, AND OTHERS, 1967 - 1969

Disease	Cases					Deaths		
	1967	1968	1969	1970	1971	1967	1968	1969
Tuberculosis	1,117	142	606	-	1	-	-	0.1
Hepatitis	-	-	-	-	-	-	-	-
Infectious Mononucleosis	177	157	108	-	1	-	-	0.1
Measles	1,101	287	210	-	-	-	-	-
Mumps	-	1	4	-	-	-	-	0.1
Polio	205	72	21	-	-	-	-	-
Salmonella Infection	21	11	11	-	-	-	-	-



## REPORTED CASES AND DEATHS FROM NOTIFIABLE COMMUNICABLE DISEASES (RESIDENTS ONLY) - 1969

D I S E A S E	Under 1 Year			1 - 4		5 - 9		10-14		15-19		20-24		25-29		30-39		40-59		60 Yrs. & Over		Total Cases	Deaths If Any
	M		F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Bacillary Dysentery				1	1																	2	-
Infectious Hepatitis	1			4	4	17	14	20	15	11	8	11	10	16	11	22	12	4	5	3		206	1
Measles	3	2	10	9	90	80	12	9								1						216	-
Meningococcal Meningitis				1	3																	4	1
Pertussis	1			6	8	3	2	3														23	-
Psittacosis																	1					1	-
Rubella	10	6	36	35	52	54	15	13	2	1	1	1	2	1	3	1		1				233	-
Salmonella Infection	4	3	6	4	1	1	4	1		1	1	1			1		1	4		1		33	-
Scarlet Fever & Streptococcal Sore Throat	2			7	3	21	21	12	14	3	3	1	3			1	1		1			93	-
Tuberculosis-Pulmonary										2	1	1	1	2		2	1	9	4	1	2	25	*2
Tuberculosis Non-Pulmonary							1	1	1							1		1				4	1
TOTALS	21	11	71	67	184	173	63	56	16	15	15	15	16	19	15	27	23	14	7	6		840	5

\*These two deaths from Pulmonary Tuberculosis occurred in Baker Memorial Sanatorium.



## CHIEF CAUSES OF DEATHS - 1969, 1968, 1967

(Including Non-Residents Who Died in Calgary)

CAUSES OF DEATHS	Number of Deaths			Rate per 100,000 Population		
	1969	1968	1967	1969	1968	1967
Diseases of the heart, arteries & kidneys, includ- ing apoplexy	863	931	913	233.9	262.4	271.9
Neoplasms - all forms	544	546	481	147.4	153.9	143.2
Violent & accidental deaths	197	219	191	53.4	61.7	56.9
Pneumonia, Bronchitis & Influenza	156	144	100	42.3	40.6	29.8
Certain diseases of early infancy	105	71	98	28.5	20.0	29.2
Congenital Malformations	57	41	57	15.4	11.5	17.0
Diabetes Mellitus	48	31	44	13.0	8.7	13.1
Communicable diseases (other than Tuberculosis and Influenza) including late effects	10	7	8	2.7	2.0	2.4
*Tuberculosis - all forms	3	6	4	0.8	1.7	1.2
All other causes	407	403	426	110.3	113.6	126.8
TOTALS	2,390	2,399	2,322			

\* The deaths from Tuberculosis include City residents who died in TB Sanatoria outside Calgary City boundaries.





## CAUSES OF DEATH BY AGE AND SEX (NON-RESIDENTS INCLUDED) - 1969

Causes of Death	Male	Female	Under 1 year	1-4 years	5-14 years	15-24 years	25-44 years	45-64 years	65 yrs. & up	Totals
1. Infective and parasitic diseases	5	8	1	1	1		2	1	7	13
2. Neoplasms - all forms	315	229	1	3	5	8	35	172	320	544
3. Allergic, endocrine system, metabolic and nutritional diseases; diseases of the blood and blood forming organs A 59 - A 66	39	31		2			9	26	33	70
4. Mental, psychoneurotic and personality disorders (alcoholism)	6	2					3	3	2	8
5. Diseases of the nervous system and sense organs	141	116		1	1	2	9	32	212	257
6. Diseases of the circulatory system	354	244			1		33	111	453	598
7. Diseases of the respiratory system	133	67	2	7	3	1	6	33	148	200
8. Diseases of the digestive system	62	51	4	1		3	10	32	63	113
9. Diseases of the genito-urinary system	36	17				2		12	39	53
10. Deliveries and complications of pregnancies, childbirth and the puerperium		1					1			1
11. Diseases of the skin and cellular tissue, diseases of the bones and organs of movement	6	7				1		7	5	13
12. Congenital Malformations	32	25	37	9	6	2	1	1	1	57
13. Certain diseases of early infancy (including prematurity and birth injuries)	59	46	104		1					105
14. Symptoms, senility and ill-defined conditions	125	36	5				6	37	113	161
15. Accidents, poisonings and violence	137	60	5	6	13	39	47	39	48	197
Totals	1450	940	159	30	31	58	162	506	1444	2390
Stillbirths	49	52								101

TABLE 1. DISEASES OF THE HUMAN RESPIRATORY SYSTEM - 1950

Disease		Number of cases		Percentage of total	
Male	Female	Male	Female	Male	Female
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48
49	50	51	52	53	54
55	56	57	58	59	60
61	62	63	64	65	66
67	68	69	70	71	72
73	74	75	76	77	78
79	80	81	82	83	84
85	86	87	88	89	90
91	92	93	94	95	96
97	98	99	100	101	102
103	104	105	106	107	108
109	110	111	112	113	114
115	116	117	118	119	120
121	122	123	124	125	126
127	128	129	130	131	132
133	134	135	136	137	138
139	140	141	142	143	144
145	146	147	148	149	150
151	152	153	154	155	156
157	158	159	160	161	162
163	164	165	166	167	168
169	170	171	172	173	174
175	176	177	178	179	180
181	182	183	184	185	186
187	188	189	190	191	192
193	194	195	196	197	198
199	200	201	202	203	204
205	206	207	208	209	210
211	212	213	214	215	216
217	218	219	220	221	222
223	224	225	226	227	228
229	230	231	232	233	234
235	236	237	238	239	240
241	242	243	244	245	246
247	248	249	250	251	252
253	254	255	256	257	258
259	260	261	262	263	264
265	266	267	268	269	270
271	272	273	274	275	276
277	278	279	280	281	282
283	284	285	286	287	288
289	290	291	292	293	294
295	296	297	298	299	300
301	302	303	304	305	306
307	308	309	310	311	312
313	314	315	316	317	318
319	320	321	322	323	324
325	326	327	328	329	330
331	332	333	334	335	336
337	338	339	340	341	342
343	344	345	346	347	348
349	350	351	352	353	354
355	356	357	358	359	360
361	362	363	364	365	366
367	368	369	370	371	372
373	374	375	376	377	378
379	380	381	382	383	384
385	386	387	388	389	390
391	392	393	394	395	396
397	398	399	400	401	402
403	404	405	406	407	408
409	410	411	412	413	414
415	416	417	418	419	420
421	422	423	424	425	426
427	428	429	430	431	432
433	434	435	436	437	438
439	440	441	442	443	444
445	446	447	448	449	450
451	452	453	454	455	456
457	458	459	460	461	462
463	464	465	466	467	468
469	470	471	472	473	474
475	476	477	478	479	480
481	482	483	484	485	486
487	488	489	490	491	492
493	494	495	496	497	498
499	500	501	502	503	504
505	506	507	508	509	510
511	512	513	514	515	516
517	518	519	520	521	522
523	524	525	526	527	528
529	530	531	532	533	534
535	536	537	538	539	540
541	542	543	544	545	546
547	548	549	550	551	552
553	554	555	556	557	558
559	560	561	562	563	564
565	566	567	568	569	570
571	572	573	574	575	576
577	578	579	580	581	582
583	584	585	586	587	588
589	590	591	592	593	594
595	596	597	598	599	600
601	602	603	604	605	606
607	608	609	610	611	612
613	614	615	616	617	618
619	620	621	622	623	624
625	626	627	628	629	630
631	632	633	634	635	636
637	638	639	640	641	642
643	644	645	646	647	648
649	650	651	652	653	654
655	656	657	658	659	660
661	662	663	664	665	666
667	668	669	670	671	672
673	674	675	676	677	678
679	680	681	682	683	684
685	686	687	688	689	690
691	692	693	694	695	696
697	698	699	700	701	702
703	704	705	706	707	708
709	710	711	712	713	714
715	716	717	718	719	720
721	722	723	724	725	726
727	728	729	730	731	732
733	734	735	736	737	738
739	740	741	742	743	744
745	746	747	748	749	750
751	752	753	754	755	756
757	758	759	760	761	762
763	764	765	766	767	768
769	770	771	772	773	774
775	776	777	778	779	780
781	782	783	784	785	786
787	788	789	790	791	792
793	794	795	796	797	798
799	800	801	802	803	804
805	806	807	808	809	810
811	812	813	814	815	816
817	818	819	820	821	822
823	824	825	826	827	828
829	830	831	832	833	834
835	836	837	838	839	840
841	842	843	844	845	846
847	848	849	850	851	852
853	854	855	856	857	858
859	860	861	862	863	864
865	866	867	868	869	870
871	872	873	874	875	876
877	878	879	880	881	882
883	884	885	886	887	888
889	890	891	892	893	894
895	896	897	898	899	900
901	902	903	904	905	906
907	908	909	910	911	912
913	914	915	916	917	918
919	920	921	922	923	924
925	926	927	928	929	930
931	932	933	934	935	936
937	938	939	940	941	942
943	944	945	946	947	948
949	950	951	952	953	954
955	956	957	958	959	960
961	962	963	964	965	966
967	968	969	970	971	972
973	974	975	976	977	978
979	980	981	982	983	984
985	986	987	988	989	990
991	992	993	994	995	996
997	998	999	1000	1001	1002
1003	1004	1005	1006	1007	1008
1009	1010	1011	1012	1013	1014
1015	1016	1017	1018	1019	1020
1021	1022	1023	1024	1025	1026
1027	1028	1029	1030	1031	1032
1033	1034	1035	1036	1037	1038
1039	1040	1041	1042	1043	1044
1045	1046	1047	1048	1049	1050
1051	1052	1053	1054	1055	1056
1057	1058	1059	1060	1061	1062
1063	1064	1065	1066	1067	1068
1069	1070	1071	1072	1073	1074
1075	1076	1077	1078	1079	1080
1081	1082	1083	1084	1085	1086
1087	1088	1089	1090	1091	1092
1093	1094	1095	1096	1097	1098
1099	1100	1101	1102	1103	1104
1105	1106	1107	1108	1109	1110
1111	1112	1113	1114	1115	1116
1117	1118	1119	1120	1121	1122
1123	1124	1125	1126	1127	1128
1129	1130	1131	1132	1133	1134
1135	1136	1137	1138	1139	1140
1141	1142	1143	1144	1145	1146
1147	1148	1149	1150	1151	1152
1153	1154	1155	1156	1157	1158
1159	1160	1161	1162	1163	1164
1165	1166	1167	1168	1169	1170
1171	1172	1173	1174	1175	1176
1177	1178	1179	1180	1181	1182
1183	1184	1185	1186	1187	1188
1189	1190	1191	1192	1193	1194
1195	1196	1197	1198	1199	1200
1201	1202	1203	1204	1205	1206
1207	1208	1209	1210	1211	1212
1213	1214	1215	1216	1217	1218
1219	1220	1221	1222	1223	1224
1225	1226	1227	1228	1229	1230
1231	1232	1233	1234	1235	1236
1237	1238	1239	1240	1241	1242
1243	1244	1245	1246	1247	1248
1249	1250	1251	1252	1253	1254
1255	1256	1257	1258	1259	1260
1261	1262	1263	1264	1265	1266
1267	1268	1269	1270	1271	1272
1273	1274	1275	1276	1277	1278
1279	1280	1281	1282	1283	1284
1285	1286	1287	1288	1289	1290
1291	1292	1293	1294	1295	1296
1297	1298	1299	1300	1301	1302
1303	1304	1305	1306	1307	1308
1309	1310	1311	1312	1313	1314
1315	1316	1317	1318	1319	1320
1321	1322	1323	1324	1325	1326
1327	1328	1329	1330	1331	1332
1333	1334	1335	1336	1337	1338
1339	1340	1341	1342	1343	1344
1345	1346	1347	1348	1349	1350
1351	1352	1353	1354	1355	1356
1357	1358	1359	1360	1361	1362
1363	1364	1365	1366	1367	1368
1369	1370	1371	1372	1373	1374
1375	1376	1377	1378	1379	1380
1381	1382	1383	1384	1385	1386
1387	13				



## CAUSES OF DEATH - 1969

## Intermediate List of 150 Causes of Death

List No.	Causes of Death	Sex	Total	Residents	Non-Residents	AGE AT DEATH						
						Under 1 yr.	1 - 4	5 - 14	15 - 24	25 - 44	45 - 64	65 years and over
A 1	Tuberculosis of respiratory system	M F	1 1	1 1								1 1
A 4	Tuberculosis of bones and joints	M F	1	1								1
A 6	Congenital Syphilis	M F	1	1								1
A 20	Septicaemia and Pyaemia	M F	3 2	3 2		1		1		1	1	1
A 23	Meningococcal Infections	M F	1	1			1					
A 29	Acute Infectious Encephalitis	M F	1	1								1
A 34	Infectious Hepatitis	M F	1	1						1		
A 43	All other diseases classified as infective and parasitic	M F	1	1								1
A 44	Malignant neoplasm of buccal cavity and pharynx	M F	4 1	3 1	1						1	3 1
A 45	Malignant neoplasm of esophagus	M F	12 1	7	5 1						5	7 1
A 46	Malignant neoplasm of stomach	M F	30 11	21 10	9 1	1					6 3	23 8
A 47	Malignant neoplasm of intestine except rectum	M F	31 27	22 24	9 3				1	3	5 5	23 21
A 48	Malignant neoplasm of rectum	M F	18 5	14 3	4 2						8 2	10 3
A 49	Malignant neoplasm of larynx	M F	3	2	1						2	1
	Carried Forward		156	120	36	2	1	1	1	5	38	108



List No.	Causes of Death	Sex	Total	Residents	Non-Residents	A G E A T D E A T H						
						Under 1 yr.	1 - 4	5 - 14	15 - 24	25 - 44	45 - 64	65 years and over
	Brought Forward		156	120	36	2	1	1	1	5	38	108
A 50	Malignant neoplasm of trachea, bronchus & lung, not specified as secondary	M F	56 13	46 13	10				1	2	21 3	33 9
A 51	Malignant neoplasm of breast	M F	1 58		1 7					5	34	1 19
A 52	Malignant neoplasm of cervix uteri	M F		8	1						5	4
A 53	Malignant neoplasm of other and unspecified parts of uterus	M F		4							2	2
A 54	Malignant neoplasm of prostate	M F	36	32	4					1	1	34
A 55	Malignant neoplasm of skin	M F	4 3	2 3	2				1		3 2	1
A 56	Malignant neoplasm of bone and connective tissue	M F	6 5	5 5	1				1 1	2	3 1	2 1
A 57	Malignant neoplasm of all other and unspecified sites	M F	80 63	66 57	14 6			1 1		8 7	21 20	50 34
A 58	Leukaemia and aleukaemia	M F	15 11	14 10	1 1		1 1	2 1	3		2 3	7 6
A 59	Lymphosarcoma and other neoplasms of lymphatic & haematopoietic system	M F	16 15	13 11	3 4					5 2	3 7	8 6
	Carried Forward		551	460	91	2	4	6	8	37	169	325



No.	Description	Total	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	289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List No.	Causes of Death	Sex	Total	Residents	Non-Residents	A G E A T D E A T H						
						Under 1 yr.	1 - 4	5 - 14	15 - 24	25 - 44	45 - 64	65 years and over
	Brought Forward		551	460	91	2	4	6	8	37	169	325
A 60	Benign neoplasms and neoplasms of unspecified nature	M	3	1	2						2	1
		F	3	2	1						2	1
A 62	Thyrotoxicosis with or without goiter	M	1		1							1
		F	1		1						1	
A 63	Diabetes Mellitus	M	28	26	2					6	11	11
		F	20	16	4		1			1	7	11
A 65	Anaemias	M	2		2						1	1
		F	5	5							1	4
A 66	Allergic disorders; all other endocrine, metabolic and blood diseases	M	8	5	3					1	2	5
		F	5	4	1		1			1	3	
A 67	Psychoses	M										
		F	1	1						1		
A 68	Psychoneuroses and disorders of personality (alcoholism)	M	6	4	2					1	3	2
		F	1	1						1		
A 70	Vascular lesions affecting central nervous system	M	127	122	5				1	3	12	111
		F	105	101	4				1	2	10	92
A 71	Non-meningococcal Meningitis	M	2	2							2	
		F	3	1	2		1	1		1		
A 72	Multiple Sclerosis	M	6	5	1					1	4	1
		F	4	2	2					1	2	1
A 73	Epilepsy	M	1	1						1		
		F										
	Carried Forward		883	759	124	2	7	7	10	58	232	567

Line No.	Name of Death	Total	Deaths	Non-Deaths	Age at Death						Total
					Under 10	10-14	15-19	20-24	25-29	30-34	
	Carried Forward	201	170	31	1	7	7	10	20	201	
A 73	Epilepsy	1	1								
A 72	Multiple Sclerosis	2	2								
A 71	Non-meningeal Meningitis	1	1								
A 70	Vascular lesions of the central nervous system	100	101	1							
A 69	Parasitic and non-parasitic orders of parasites (Protozoa)	2	1	1							
A 68	Erythema	1	1								
A 67	Alleged infectious and non-infectious diseases of the skin and blood diseases	2	2								
A 66	Alleged infectious and non-infectious diseases of the blood and blood diseases	2	2								
A 65	Anemia	2	2								
A 64	Diabetes Mellitus	10	10								
A 63	Tuberculosis of the lungs	1	1								
A 62	Benign neoplasms and neoplasms of unspecified nature	2	2								
	Brought Forward	201	170	31	1	7	7	10	20	201	



List No.	Causes of Death	Sex	Total	Residents	Non-Residents	A G E A T D E A T H						
						Under 1 yr.	1 - 4	5 - 14	15 - 24	25 - 44	45 - 64	65 years and over
	Brought Forward		883	759	124	2	7	7	10	58	232	567
A 78	All other diseases of the nervous system and sense organs	M	5	4	1						1	4
		F	4	4							1	3
A 80	Chronic rheumatic heart disease	M	6	5	1						3	3
		F	10	9	1					2	4	4
A 81	Arteriosclerotic and degenerative heart disease	M	278	246	32					22	70	186
		F	158	147	11					2	12	144
A 82	Other diseases of heart	M	5	5						1	1	3
		F	4	4							1	3
A 83	Hypertension with heart disease	M	17	16	1					1	4	12
		F	30	28	2						4	26
A 84	Hypertension without mention of heart	M	6	5	1					1	3	2
		F	5	3	2						1	4
A 85	Diseases of arteries	M	35	29	6					2	2	31
		F	31	31				1		2	5	23
A 86	Other diseases of circulatory system	M	7	5	2							7
		F	6	6							1	5
A 87	Acute upper respiratory infections	M	4	4		1	2		1			
		F										
A 88	Influenza	M	2	2						1	1	
		F	10	10			1			1	2	6
A 89	Lobar Pneumonia	M	4	4							1	3
		F	1	1						1		
A 90	Bronchopneumonia	M	34	33	1		1			1	4	28
		F	24	21	3						1	23
	Carried Forward		1569	1381	188	3	11	8	11	95	354	1087



List No.	Causes of Death	Sex	Total	Residents	Non-Residents	A G E A T D E A T H						
						Under 1 yr.	1 - 4	5 - 14	15 - 24	25 - 44	45 - 64	65 years and over
	Brought Forward		1569	1381	188	3	11	8	11	95	354	1087
A 91	Primary atypical, other & unspecified pneumonia	M	22	22			3				2	17
		F	13	11	2	1					1	11
A 92	Acute bronchitis	M										
		F	2	2								2
A 93	Bronchitis, chronic and unqualified	M	32	28	4						7	25
		F	8	6	2					1	2	5
A 95	Empyema and abscess of lung	M	1	1								1
		F										
A 97	All other respiratory diseases	M	34	33	1			1			8	25
		F	9	8	1			2		1	4	2
A 99	Ulcer of stomach	M	6	5	1						2	4
		F	2	2								2
A 100	Ulcer of duodenum	M	11	10	1						3	8
		F	8	6	2					2	3	3
A 101	Gastritis and duodenitis	M	1	1		1						
		F										
A 102	Appendicitis	M	1	1					1			
		F										
A 103	Intestinal obstruction and hernia	M	10	9	1						2	8
		F	14	12	2	1			1	2		10
A 104	Gastro-enteritis and colitis, except diarrhoea of newborn	M	6	4	2	2						4
		F	6	6			1				1	4
A 105	Cirrhosis of liver	M	16	14	2					3	7	6
		F	11	10	1					2	6	3
	Carried Forward		1782	1572	210	8	15	11	13	106	402	1227





List No.	Causes of Death	Sex	Total	Residents	Non-Residents	A G E A T D E A T H						
						Under 1 yr.	1 - 4	5 - 14	15 - 24	25 - 44	45 - 64	65 years and over
	Brought Forward		1782	1572	210	8	15	11	13	106	402	1227
A 106	Cholelithiasis and Cholecystitis	M	3	2	1						1	2
		F	5	2	3				1		2	2
A 107	Other diseases of digestive system	M	8	7	1					1	2	5
		F	5	2	3						3	2
A 108	Acute Nephritis	M	1		1				1			
		F										
A 109	Chronic, other, and unspecified Nephritis	M	8	8							4	4
		F	4	4					1		2	1
A 110	Infections of kidney	M	7	6	1						1	6
		F	9	9							3	6
A 111	Calculi of urinary system	M	2	2							1	1
		F	2	1	1						1	1
A 112	Hyperplasia of prostate	M	11	9	2							11
		F										
A 114	Other diseases of genito-urinary system	M	7	6	1							7
		F	2	2								2
A 118	Abortion without mention of toxaemia	M										
		F	1		1					1		
A 122	Arthritis and Spondylitis	M	3	3							2	1
		F	5	5							1	4
A 125	Ankylosis and acquired musculoskeletal deformities	M										
		F	1	1							1	
A 126	All other diseases of skin & musculoskeletal system	M	3	3					1		2	
		F	1		1						1	
	Carried Forward		1870	1644	226	8	15	11	17	108	429	1282





List No.	Causes of Death	Sex	Total	Residents	Non-Residents	A G E A T D E A T H						
						Under 1 yr.	1 - 4	5 - 14	15 - 24	25 - 44	45 - 64	65 years and over
	Brought Forward		1870	1644	226	8	15	11	17	108	429	1282
A 127	Spina bifida and meningocele	M	3	3		3						
		F	3	3		3						
A 128	Congenital malformations of circulatory system	M	12	8	4	7	2	1	1	1		
		F	10	9	1	7	2	1				
A 129	All other congenital malformations	M	17	15	2	12	2	1			1	1
		F	12	8	4	5	3	3	1			
A 130	Birth injuries	M	6	5	1	5		1				
		F	3	1	2	3						
A 131	Postnatal asphyxia and atelectasis	M	6	5	1	6						
		F	5	5		5						
A 132	Infections of the newborn	M	1	1		1						
		F	2	2		2						
A 133	Haemolytic disease of newborn	M	3	2	1	3						
		F	3	3		3						
A 134	All other defined diseases of early infancy	M	1		1	1						
		F										
A 135	Ill-defined diseases peculiar to early infancy & immaturity unqualified	M	42	35	7	42						
		F	33	29	4	33						
A 136	Senility without mention of psychosis	M	49	45	4							49
		F	17	16	1							17
A 137	Ill-defined and unknown causes of morbidity and mortality	M	76	68	8	5				6	28	37
		F	19	18	1						9	10
AE 138	Motor vehicle accidents	M	53	38	15		2	5	21	10	9	6
		F	16	11	5			2	4	3	5	2
	Carried Forward		2262	1974	288	154	26	25	44	128	481	1404



List No.	Causes of Death	Sex	Total	Residents	Non-Residents	A G E A T D E A T H						
						Under 1 yr.	1 - 4	5 - 14	15 - 24	25 - 44	45 - 64	65 years and over
	Brought Forward		2262	1974	288	154	26	25	44	128	481	1404
AE 139	Other transport accidents	M F	4 4	2 3	2 1				1	2	1	
AE 140	Accidental poisoning	M F	4 4	4 3			2	1		2	2	1
AE 141	Accidental falls	M F	20 21	14 16	6 5						2 2	18 19
AE 142	Accidents caused by machinery	M F	2	2						1	1	
AE 146	Accidental drowning and submersion	M F	1	1					1			
AE 147	All other accidental causes	M F	9 4	9 4		4 1	1 1	1 1	1	1	1 1	
AE 148	Suicide and self-inflicted injury	M F	39 14	39 13				2 1	6 4	18 7	13 1	1
AE 149	Homicide and injury inflicted by other persons (not in war)	M F	5 1	5 1						3 1	1	1
	Totals		2390	2087	303	159	30	31	58	162	506	1444





COMMUNICABLE DISEASES REPORTED IN 1969

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
Bacillary Dysentery							1		1				2
Infectious Hepatitis	11	24	18	13	14	16	17	11	25	11	28	18	206
Measles	1	1	2	1		2	1				95	113	216
Meningococcal Meningitis				1		1			2				4
Pertussis					1	3	3	1	6	3	1	5	23
Psittacosis			1										1
Rubella (German Measles)	8	26	28	8	6	9	6	12	19	21	33	57	233
Salmonella Infection	5				1	3	4	5	6	3	1	5	33
Scarlet Fever & Strep Throat	5	6	12	10	6	11	1	2	5	10	10	15	93
Tuberculosis, Pulmonary	1		3	2	1	2	4	1	2	5	4		25
Tuberculosis, Non-Pulmonary								2				2	4
TOTALS	31	57	64	35	29	47	37	34	66	53	172	215	840

COMMUNICABLE DISEASES NOT NOTIFIABLE IN THE PROVINCE OF ALBERTA - REPORTED IN 1969

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
Mumps	72	67	95	94	92	51	12	7	58	138	258	141	1,085
Chickenpox	71	39	59	22	47	40	11	10	24	46	157	74	600
TOTALS	143	106	154	116	139	91	23	17	82	184	415	215	1,685





VENEREAL DISEASE INCIDENCE - CALGARY - 1969

	Under 1 Year		1 - 14 Years		15-19 Years		20-24 Years		25-39 Years		40-59 Years		60 Years & Over		Age Not Stated		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Chancroid		1															1
Syphilis:- Prenatal (Congenital)																	
Syphilis:- Acquired - Primary						1	4		3	1	1						10
Syphilis:- Acquired - Secondary							1	1		1							3
Syphilis:- Acquired - Latent (inc. Tentative)									1	1	3		3	1			9
Syphilis:- Acquired Tertiary																	
Syphilis:- Type Undetermined									1		1						2
Gonorrhoea (all forms)					59	23	199	35	349	24	67	11	2		9	1	779
TOTAL		1			59	24	204	36	354	27	72	11	5	1	9	1	804



Dr. L. C. Allan,  
Medical Officer of Health,  
Health Department.

Dear Dr. Allan:-

I have pleasure in presenting you the Annual Report on the activities of the Inspectional Division for the calendar year 1969. First, I wish to express my appreciation for your guidance during this time.

The Inspectors carried out their duties in the usual effective and efficient manner. Their contacts with professional, business and labor personnel as well as the general public produced a climate of mutual trust and co-operation. Difficult and controversial situations were generally resolved to everyone's satisfaction.

Lectures and talks were given to several classes of school children ranging from Grades IV to IX. Subjects covered were "Food Handling Methods", "General Sanitation" and "Pollution". Talks were also given to students of the Food Service Classes at S.A.I.T.

Inspectors of the Dairy Section carried out inspections of the dairy plants and dairy farms, doing regular sampling of both the raw and finished product. Samples of soft ice cream and ice cream mix were tested on a regular basis. Also, they co-operated with the Provincial Department of Health in submitting samples of soft ice cream and ice cream mix for a survey which was being done Province-wide by the Department of Health.

The addition of Mr. W. Vanrobaeys to the inspectional staff has proven to be an asset.

Mr. Joe Cools, our Pigeon Control Officer, captured over 800 pigeons during the summer. The majority of these birds were in the downtown area, although assistance was given to elderly people in residential areas who were unable to cope with the problem of pigeons on their property.

The number of tests conducted by the laboratory increased over last year.

The statistical report follows.

Respectfully submitted,

J. Crichton, C.S.I. (C), M.R.S.H.,  
Chief Inspector.



Dr. J. C. Allen,  
Medical Director of Health,  
Health Department,  
New York, Albany.

I have pleasure in presenting you the enclosed report on the  
activities of the Department during the calendar year 1927. It  
will be interesting and instructive to you in many respects.

The Department carried out its duties in the most effective  
and efficient manner. There were many important changes and  
improvements in the various branches of the Department, and  
the results of these changes are shown in the report. The  
Department has been successful in its efforts to improve  
the health of the people of New York.

Enclosed are also reports on the various branches of the  
Department, showing the results of the work done during  
the year. These reports are of interest to you in many  
respects, and will show the progress of the Department  
in its various branches.

The report of the Department for the year 1927 is  
of interest to you in many respects, and will show  
the progress of the Department in its various branches.  
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Very truly yours,  
J. C. Allen,  
Medical Director of Health,  
Health Department,  
New York, Albany.

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J. C. Allen,  
Medical Director of Health,  
Health Department,  
New York, Albany.

STATISTICAL SUMMARY OF DISTRICT INSPECTIONS  
DETAILED REPORT - 1969

	Number Established as of December 1969	Number of Inspections Made
Abattoirs .....	1	4
Air Pollution Stations .....	15	1,415
Ambulances .....	8	24
Apartment Blocks .....	740	810
Auto Courts .....	48	182
Aviaries .....		2
Apiaries .....	1	2
Accessory Buildings .....		11
Auctions .....		8
Bakeries .....	86	1,095
Barber Shops .....	207	751
Basement Rooms .....		46
Basement Suites .....		109
Baths .....	10	30
Beauty Parlors .....	267	780
Beverage Rooms .....	27	418
Boarding Houses .....		13
Bottling Works .....	7	69
Bowling Alleys .....	10	76
Breweries .....	3	9
Butchers .....	154	1,174
Billiard Halls .....	31	161
Cabarets .....	27	81
Camp Grounds .....	1	12
Candy Manufacturing .....	4	19
Canneries .....	1	3
Caterers .....	37	216
Chickens .....		31
Chicken Slaughter Houses .....	2	17
Chinchilla Farms .....	55	168
Clubs .....	25	170
Cocktail Lounges .....	44	393
Concessions .....		2,334
Dogs .....		197
Drugstores .....	112	126
Dairy Bars .....	23	157
Day Nurseries .....	60	152
Departmental Stores .....	15	108
Dry Cleaners .....	90	178
Dry Cleaners - Coin .....	29	50
Dye House .....	2	6
Delicatessen .....	11	119

STATISTICAL SUMMARY OF DISTRICT INSPECTIONS  
DETACHED REPORT - 1924

Number of Inspections Made	Number of Inspected as of December 31st	
4	1	Alcoholic Beverages
1,412	15	Air Pollution Stations
10	2	Animal and Poultry
110	100	Apprentice System
162	10	Auto License
2		Aviation
2	1	Canals
11		Canals - Navigation
8		Canals - Irrigation
1,202	68	Canals - Other
131	201	Canals - Other
66		Canals - Other
102		Canals - Other
30	10	Canals - Other
200	241	Canals - Other
218	21	Canals - Other
12		Canals - Other
60	7	Canals - Other
70	10	Canals - Other
0	1	Canals - Other
1,172	10	Canals - Other
161	10	Canals - Other
81	20	Canals - Other
12	1	Canals - Other
10	4	Canals - Other
1	1	Canals - Other
210	10	Canals - Other
31		Canals - Other
17	2	Canals - Other
100	20	Canals - Other
170	20	Canals - Other
101	20	Canals - Other
1,120		Canals - Other
102		Canals - Other
120	112	Canals - Other
127	27	Canals - Other
122	20	Canals - Other
100	10	Canals - Other
170	20	Canals - Other
20	20	Canals - Other
0	1	Canals - Other
110	11	Canals - Other



	<u>Number Established as of December 1969</u>		<u>Number of Inspections Made</u>
Factories .....	64	.....	106
Feed Lots .....	8	.....	99
Fish Markets .....	4	.....	16
Fish Wholesale .....	3	.....	17
Food Packaging .....	5	.....	58
Fur Farms .....	1	.....	4
Foster Homes .....	12	.....	24
Freezer Plants .....	5	.....	38
Garages .....		.....	133
Garbage .....		.....	1,726
Groceries .....	353	.....	2,728
Glass Manufacturing .....	1	.....	2
Halls .....	126	.....	160
Hatcheries .....	1	.....	8
Hawkers .....	18	.....	153
Home Occupations .....		.....	106
Horses .....		.....	23
Horse Meat Packers .....	1	.....	2
Hospitals .....	12	.....	59
Hostels .....	1	.....	13
Hotels .....	39	.....	132
Housing .....		.....	923
Honey Processing .....	1	.....	2
Heating & Ventilation .....		.....	71
Ice Cream & Soft Drinks .....	430	.....	532
Institutions & Schools .....	92	.....	178
Incinerators .....		.....	424
Infestations .....		.....	112
Kennels (Boarding) .....	9	.....	37
Kennels (Registered) .....	10	.....	72
Kindergartens .....	87	.....	176
Lanes .....		.....	2,037
Laundries .....	41	.....	68
Laundries - Coin .....	50	.....	141
Lectures .....		.....	67
Locker Plants .....	6	.....	46
Massage Parlour .....	2	.....	3
Miscellaneous .....		.....	3,804
Mobile Canteens .....	34	.....	97
Meat Processing .....	10	.....	64
Motels .....	43	.....	196



	<u>Number Established as of December 1969</u>		<u>Number of Inspections Made</u>
Noxious Gases .....		.....	61
Nursing Homes .....	17	.....	94
Office Buildings .....		.....	128
O.P.C. Beverage Rooms .....		.....	126
O.P.C. Cocktail Lounges .....		.....	181
O.P.C. Restaurants .....		.....	2,673
O.P.C. Wells .....		.....	313
O.P.C. Hospitals .....		.....	4
O.P.C. Drinking Fountains .....		.....	1
O.P.C. Swimming Pools .....		.....	1
Pest Control .....		.....	61
Pet Shops .....	15	.....	68
Pigeons .....		.....	102
Pigeon Lofts .....	54	.....	129
Pig Farms .....	4	.....	27
Plumbing .....		.....	36
Poultry .....		.....	35
Poultry Keeper .....	2	.....	18
Roller Rinks .....	1	.....	5
Rendering Plants .....	2	.....	25
Restaurants .....	439	.....	6,715
Riding Academies .....	1	.....	3
Rooming Houses .....	12	.....	30
Rodents .....		.....	36
Salvage Metal & Paper .....	4	.....	42
Second-Hand Clothing Stores .....	7	.....	14
Service Stations .....	294	.....	33
Septic Tanks .....	100	.....	25
Sewage Disposal .....	100	.....	26
Staff Cafeterias .....	75	.....	346
Swimming Pools - Private .....	22	.....	8
Swimming Pools - Semi-Private .....	22	.....	132
Swimming Pools - Public .....	15	.....	129
Slaughter Houses .....	6	.....	18
Shopping Centres .....	44	.....	391
Tanneries .....	1	.....	7
Tattoo Parlors .....	1	.....	1
Theatres .....	20	.....	38
Toilet Accommodation .....		.....	296
Trailers (Outside Parks) .....	23	.....	347
Trailer Courts .....	18	.....	208





	Number Established as of December 1969	Number of Inspections Made
Unsightly Premises .....	.....	407
Used Car Lots .....	15 .....	29
Upholstery Shops .....	11 .....	56
Warehouses .....	130 .....	301
Waste Disposal .....	.....	397
Waste Disposal Grounds .....	4 .....	53
Wells .....	592 .....	409
Wells, Chemical .....	592 .....	326
Weeds .....	.....	12
Water Pollution .....	.....	79
Burning Barrels Removed .....	.....	126

#### FOODSTUFFS CONDEMNED

January	-	2 lbs. bananas
February	-	25 lbs. of fresh vegetables in flooded basement of restaurant
March	-	None
April	-	40 oz. shrimp
May to October	-	None
November	-	15 packages of bread sticks, about 8 oz. each
December	-	Smoke-damaged meats and open vegetables of unknown quantity;
	-	150 lbs. open flour, 15 loaves of bread and 2 dozen baked and unbaked pastries.

#### MISCELLANEOUS PROCEDURES

Complaints	1,584	Written Reports	1,366
Complaints - Call Back	1,356	Letters	129
Planning Applications	493	Notices - Verbal	6,878
Requests for Inspections	449	Notices - Written	268
		Prosecutions	-

Number of  
Institutions  
as of Dec. 31, 1955

607	.....	.....	.....
50	.....	10	.....
26	.....	11	.....
301	.....	128	.....
397	.....	.....	.....
55	.....	4	.....
800	.....	292	.....
118	.....	292	.....
15	.....	.....	.....
78	.....	.....	.....
118	.....	.....	.....

.....

January	.....	1 day, 1 night
February	.....	15 days of fresh vegetables in 15-day packages at restaurant
March	.....	Home
April	.....	40 days, 4 nights
May to October	.....	Home
November	.....	15 packages of fresh produce, about 5 lbs. each
December	.....	Home - 15 lbs. fresh produce and some vegetables of various quantities
.....	.....	15 lbs. fresh produce, 15 lbs. of dried and 5 lbs. of frozen produce

.....

.....	.....	1,700	.....
.....	.....	1,700	.....
.....	.....	1,700	.....
.....	.....	1,700	.....



MEAT INSPECTION

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
<u>Submitted:-</u>													
Beef	180	150	165	152	158	151	168	122	157	186	152	126	1,867
Veal	487	364	325	242	291	172	225	254	239	213	213	246	3,271
Hogs	25	17	8	5	11	16	13	5	15	10	50	19	194
Sheep & Lamb	99	111	68	33	38	77	55	42	85	134	62	121	925
TOTALS	791	642	566	432	498	416	461	423	496	543	477	512	6,257
<u>Condemned:-</u>													
Beef													
Veal													
Hogs	1				4								5
Sheep & Lamb													
TOTALS	1				4								5
<u>Portions Condemned:-</u>													
Beef Heads & Tongues			1		1	2	1	2			5	4	16
Beef Hearts				1				2			1	2	6
Beef Livers	39	37	45	56	48	44	60	34	67	61	47	47	585
Veal Heads & Tongues					1	2	2	1		2	2	2	12
Veal Hearts							2						2
Veal Livers	9	20	39	24	51	34	16	7	15	8	5	11	239
Hog Heads & Tongues		1							1	1			3
Hog Livers		2		1		4		2		1		2	12
Lamb Livers	9	21	9	4	6	13	11	9	7	24	23	25	161
TOTALS	57	81	94	86	107	99	92	57	90	97	83	93	1,036



## DAIRIES AND MILK CONTROL

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Dairy Farm Inspections	42	39	54	35	46	58	62	31	27	60	52	39	545
Milk Plant Inspections	1	3	2	1	3	1	2	3	3	3	3	3	28
Permits Issued to Dairymen			2				1				1		4
Permits Issued to Distributors	5												5
Permits Issued to Milk Plants	4												4
Permits Issued to Collectors													
Permits Suspended		2		1		1		1		2	1		8
Complaints Received	2			1			3	2	1	2	1	1	13
Complaints Justified	1			1			2	2	1	1	1		9
Notices Issued	2	13	18	17	27	28	24	26	11	12	29	22	229
Special Tests		13	24	11	6	8	3	2		10	4	9	90
Dairymen's Samples Collected - Total	421	435	437	456	334	450	454	329	399	323	325	346	4,709
Distributors' Samples Collected - Total		215	253	204	163	163	116	162	164	160	124	125	1,849
Soft Ice Cream Samples					36	28	28	23	17	6	15	12	165
Retail Store Samples			64	72	56	72	64	48	56	48	64	65	609
Total Samples Collected	421	663	778	743	595	721	665	564	636	547	532	557	7,422





DAIRYMEN'S OFFICIAL PLATE COUNT TESTS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
Good	286	222	296	260	233	306	296	194	241	226	179	209	2,948
Fair	84	90	76	99	61	97	89	74	57	59	85	82	953
Bad	51	123	65	97	40	47	69	61	101	38	61	55	808
Totals	421	435	437	456	334	450	454	329	399	323	325	346	4,709

SEDIMENT TESTS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
Good	30	18	38	15	16	4	8	3			16		148
Fair	28	19	22	13	18	17		13	16	14	26		186
Bad	45	70	45	39	94	44	9	54	43	53	11		507
Totals	103	107	105	67	128	65	17	70	59	67	53		841

AVERAGE OFFICIAL PLATE COUNTGLASS BOTTLES

Homogenized < 3000  
 Homogenized  $\frac{1}{2}$  gal. < 3000  
 Homogenized 3 qts. 3000  
 Skim < 3000  
 Partly Skim < 3000  
 Partly Skim  $\frac{1}{2}$  gal. < 3000  
 Partly Skim 3 qts. < 3000  
 Substandard 3000  
 Whipping Cream 3000  
 Chocolate < 3000

CARTONS

Homogenized < 3000  
 Homogenized  $\frac{1}{2}$  gal. < 3000  
 Homogenized 3 qts. < 3000  
 Skim 3100  
 Partly Skim < 3000  
 Partly Skim  $\frac{1}{2}$  gal. 3000  
 Partly Skim 3 qts. 3000  
 Substandard Cream 3300  
 Whipping Cream 3200  
 Chocolate < 3000

PLASTIC

Homogenized < 3000  
 Homogenized  $\frac{1}{2}$  gal. < 3000  
 Homogenized 3 qts. < 3000  
 Partly Skim < 3000  
 Partly Skim  $\frac{1}{2}$  gal. < 3000  
 Partly Skim 3 qts. < 3000

AVERAGE BUTTER FAT CONTENT

Homogenized	3.25	Partly Skim	2.06
Skim	0.07	Substandard Cr.	10.87
		Whipping Cream	35.81

Total Milk Sales in Quarts 35,105,193

Milk Consumption - per capita, per day, 0.521 pint

Total Cream Sales in Quarts 1,815,327

Cream Consumption - per capita, per day, 0.027 pint

BANKING'S SPECIAL RATE TABLE

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Good	100	112	120	125	130	135	140	145	150	155	160	165	1,600
Fair	85	90	95	100	105	110	115	120	125	130	135	140	1,200
Poor	70	75	80	85	90	95	100	105	110	115	120	125	1,000
Total	255	277	295	310	325	340	355	370	385	400	415	430	3,600

BANKING'S RATE

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Good	10	12	15	18	20	22	25	28	30	32	35	38	340
Fair	8	10	12	15	18	20	22	25	28	30	32	35	280
Poor	5	6	8	10	12	15	18	20	22	25	28	30	200
Total	23	28	35	43	50	57	65	73	80	87	95	103	820

BANKING'S SPECIAL RATE TABLE

CLASS	CLASS	CLASS
Good	Good	Good
Fair	Fair	Fair
Poor	Poor	Poor
Total	Total	Total

BANKING'S SPECIAL RATE TABLE

Good	Fair	Poor
Total	Total	Total

For a full list of rates in pounds, see page 1, 1911.

For a full list of rates in dollars, see page 1, 1911.

For a full list of rates in francs, see page 1, 1911.



LABORATORY REPORT FOR 1969  
EXAMINATION OF WATER SUPPLIES

S A M P L E	Number Received	Presum. Lactose 100 cc.	Presum. Lactose 10 cc.	Presum. Lactose 1 cc.	Agar Plate Count	Con- firma- tion	Total
City Water	1,404	3,115	2,747	2,747	2,824	559	11,992
Glenmore Plant	814	2,450	2,450	2,450	1,700	48	9,098
Well Water	1,211	3,512	3,512	3,512	2,424	449	13,409
Waterworks	301	903	903	903	602	431	3,742
Total	3,730	9,980	9,612	9,612	7,550	1,487	38,241

EXAMINATION OF MILK SAMPLES

Number of Samples Received	Fat (Babcock)	Spec- ific Grav- ity	Total Solids Tests	Total Solids Not Fat Tests	TGEM Plate Count	BGB Coli- forms	Plate Count On Raw Milk	Total
2,032	229	223	223	223	4,076	10,180	5,672	20,826

STORE MILK AND MILK PRODUCTS

Number of Samples	Plate Count	BGB Coliform Tests	Total
Milk & Ice Cream      876	1,692	5,445	7,137

MISCELLANEOUS TESTS

	No. Tests
Chemical Analyses on 449 Water Samples .....	4,451
Fluoride Determination on 72 Water Samples .....	84
Plate Counts on Restaurants and Beverage Room Utensil Swabs .....	3,735
Microscopic, Chemical and Sediment Examination on Water, Milk, Soft Drinks, Cereals etc. (156 samples)	301
Total	8,571

Total No. of Samples Received For Examination:- 11,050

Total No. of Tests Done On These Samples:-

Water Supplies	38,241
Milk Samples	20,826
Store Milk & Milk Products	7,137
Miscellaneous Tests	8,571

Grand Total 74,775

LABORATORY REPORT FOR 1952  
EXAMINATION OF WATER SAMPLES

Sample	Hardness 100 mg	Calcium 10 mg	Magnesium 10 mg	Alkalinity 100 mg	Chloride 100 mg	Sulfate 100 mg	Total 100 mg
Well Water	1.121	1.101	1.101	1.101	1.101	1.101	1.101
City Water	1.101	1.101	1.101	1.101	1.101	1.101	1.101
Tap Water	1.101	1.101	1.101	1.101	1.101	1.101	1.101
Distilled Water	1.101	1.101	1.101	1.101	1.101	1.101	1.101
Total	1.101	1.101	1.101	1.101	1.101	1.101	1.101

EXAMINATION OF WATER SAMPLES

Sample	Hardness 100 mg	Calcium 10 mg	Magnesium 10 mg	Alkalinity 100 mg	Chloride 100 mg	Sulfate 100 mg	Total 100 mg
Well Water	1.121	1.101	1.101	1.101	1.101	1.101	1.101
City Water	1.101	1.101	1.101	1.101	1.101	1.101	1.101
Tap Water	1.101	1.101	1.101	1.101	1.101	1.101	1.101
Distilled Water	1.101	1.101	1.101	1.101	1.101	1.101	1.101
Total	1.101	1.101	1.101	1.101	1.101	1.101	1.101

EXAMINATION OF WATER SAMPLES

Sample	Hardness 100 mg	Calcium 10 mg	Magnesium 10 mg	Alkalinity 100 mg	Chloride 100 mg	Sulfate 100 mg	Total 100 mg
Well Water	1.121	1.101	1.101	1.101	1.101	1.101	1.101
City Water	1.101	1.101	1.101	1.101	1.101	1.101	1.101
Tap Water	1.101	1.101	1.101	1.101	1.101	1.101	1.101
Distilled Water	1.101	1.101	1.101	1.101	1.101	1.101	1.101
Total	1.101	1.101	1.101	1.101	1.101	1.101	1.101

EXAMINATION OF WATER SAMPLES

Chemical analysis of the water samples was conducted by the following methods: Hardness was determined by titration with EDTA; Calcium was determined by titration with EDTA; Magnesium was determined by titration with EDTA; Alkalinity was determined by titration with HCl; Chloride was determined by titration with Hg(NO<sub>3</sub>)<sub>2</sub>; Sulfate was determined by titration with BaCl<sub>2</sub>.

Total No. of samples tested for Hardness: 11  
Total No. of tests done for Hardness: 11  
Water Samples: 11  
City Samples: 11  
Tap Samples: 11  
Distilled Samples: 11  
Total: 44

1 9 6 9    A N N U A L    R E P O R T  
C H I L D    A N D    M A T E R N A L    H E A L T H

Agnes E. O'Neil, M.D., D.P.H.,  
 Assistant Medical Officer of Health.

The Program for Infants, Pre-School and School Children has undergone no change of note in 1969 and is summarized below, along with the list of Clinic hours and locations. These services are well used, serving thousands of children in each age group.

SUMMARY OF SCHOOL HEALTH SERVICES

PROVIDED BY

THE CALGARY HEALTH DEPARTMENT

Grade I	Vision test; immunization and revaccination if due; teacher-nurse interview re pupils; Mantoux tests; topical fluoride painting of teeth offered to all Grade I pupils. Physical examination by the doctor no longer routine for all Grade I pupils but restricted to those who are not covered by prepaid medical insurance and those selected by the nurse for some special reason after her inspection.
Grade II	Follow-up of anything that has become apparent in our contacts with the child in Grade I. Interview and inspection by the nurse with special emphasis on the formation of good health habits. Dental inspection by a nurse. Immunization if required. Vision test with Snellen Chart and the + 1.75 lens.
Grade III	Audiometer testing of all Grade III pupils. Teacher-nurse interview re pupils.
Grade V	Vision test with Snellen chart and the + 1.75 lens. Review of all immunization status.
Grade VI	Interview and inspection by the nurse with special emphasis on the formation of good health habits. Teacher-nurse conference re pupils. Review immunization.
Grade VII	Vision Test.
Grade VIII	Counselling.
Grade IX	Vision test, including color vision. Review immunization. Mantoux test.

Grades X, XI & XII-limited time of Public Health Nurse available for counselling.



1957 ANNUAL REPORT  
CHILD AND WATERBURY

James E. Waterbury, M.D., D.P.H.,  
Assistant Medical Director of Health

The Program for Children, Waterbury and School Children has been  
given no change of name in 1957 and is continued below, along with the staff of  
Child Health and Education. These services are still being, serving the needs of  
children in each area.

REPORT OF SCHOOL HEALTH SERVICES

Summary

THE CHILDREN'S HEALTH SERVICE

During 1957, the children's health service was organized in four separate units.  
The first unit, the School Health Service, was organized in the fall of 1957.  
The second unit, the Child Health Service, was organized in the fall of 1957.  
The third unit, the Child Health Service, was organized in the fall of 1957.  
The fourth unit, the Child Health Service, was organized in the fall of 1957.

Grade I

Following the organization of the School Health Service in the fall of 1957,  
the child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.

Grade II

Following the organization of the School Health Service in the fall of 1957,  
the child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.

Grade III

Following the organization of the School Health Service in the fall of 1957,  
the child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.

Grade IV

Following the organization of the School Health Service in the fall of 1957,  
the child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.

Grade V

Following the organization of the School Health Service in the fall of 1957,  
the child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.

Grade VI

Following the organization of the School Health Service in the fall of 1957,  
the child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.

Grade VII

Following the organization of the School Health Service in the fall of 1957,  
the child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.

Grade VIII

Following the organization of the School Health Service in the fall of 1957,  
the child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.  
The child health service was organized in the fall of 1957.

Grade IX

Vision Tests - Grades I, II, V, VII and IX.

Hearing Tests - Routine on Grade III.

On any who have failed in the previous year in elementary Grades I to VI who have not had a hearing test or in whom there is any suspicion of a hearing defect.

On those in Grade I who have been separated into the "slow stream" if the nurse has the portable audiometer after this separation has taken place.

Those in Grade II in the "slow stream" if they have not been done in Grade I.

Physical examination by the doctor (at the discretion of the nurse) on cases in any grade where the family is unlikely to get private medical care and who has failed to get care after advice and where the nurse suspects a health problem to exist.

# CITY OF CALGARY

## CHILD HEALTH CENTRES

### FAMILY CENTRED CLINICS

#### OFFER:-

	<u>OPPORTUNITIES</u>	<u>SERVICES</u>
A Infant & Pre-School	Care and Feeding Patterns of Growth & Development Emotional & Social Needs	A Advice on Feeding and Routines Observation and assessment of Development Guidance on meeting infant needs in a safe environment
B Living Routines	Feeding schedules, work, recreation, rest planning & budgeting	Screening tests for abnormalities Diaper test, Hip test, hearing & vision checks, dental checks
C Family Relations	Attitudes:- - To feeding problems - Toilet training - Sleeping problems - Fears, jealousy, negativism	B Assessment & referral of Health & Social problems C Interpretation of needs of all family members D Providing informative literature E Fluorides for prevention of tooth decay F Immunization G Supportive home visits





ATTENDANCE AT CHILD HEALTH CENTRES

	<u>1963</u>	<u>1964</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>
<u>Infant Attendance</u>							
New	6,015	5,351	5,070	5,429	5,548	5,620	6,037
Old	<u>17,800</u>	<u>13,183</u>	<u>10,011</u>	<u>11,907</u>	<u>13,489</u>	<u>14,959</u>	<u>14,963</u>
Total Infant Attendance	23,815	18,534	15,081	17,336	19,037	20,579	21,000

Pre-School Attendance

New	2,112	3,172	3,417	3,866	3,768	3,297	3,285
Old	<u>9,867</u>	<u>15,467</u>	<u>16,644</u>	<u>19,543</u>	<u>23,756</u>	<u>23,695</u>	<u>22,892</u>
Total Pre-School Attendance	11,979	18,639	20,061	23,409	27,524	26,992	26,177

NEW ENROLLMENTS EXPRESSED AS A PERCENTAGE OF BIRTHS MINUS DEATHS

Births	8,032	7,688	7,235	7,064	7,301	7,184	7,429
minus							
Infant Deaths	<u>156</u>	<u>180</u>	<u>155</u>	<u>125</u>	<u>153</u>	<u>112</u>	<u>132</u>
	7,876	7,508	7,080	6,939	7,148	7,072	7,297

New Infants	6,015	5,351	5,070	5,429	5,548	5,620	6,037
plus							
Pre-Schoolers Enrolled	<u>2,112</u>	<u>3,172</u>	<u>3,417</u>	<u>3,866</u>	<u>3,768</u>	<u>3,297</u>	<u>3,285</u>
	8,127	8,523	8,487	9,295	9,316	8,917	9,322

New Infants Plus Pre-Schoolers Enrolled Expressed as a % of Births Minus Deaths	103%	113%	120%	134%	130.4%	126.1%	127.7%
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## ATTENDANCE AT CHINA HOUSE SCHOOL

Pre-School Attendance		1951	1952	1953	1954	1955	1956	1957	1958
New	1,417	1,417	1,417	1,417	1,417	1,417	1,417	1,417	1,417
Old	17,800	17,800	17,800	17,800	17,800	17,800	17,800	17,800	17,800
Total Infant Attendance	19,217	19,217	19,217	19,217	19,217	19,217	19,217	19,217	19,217
Pre-School Attendance		1951	1952	1953	1954	1955	1956	1957	1958
New	2,117	2,117	2,117	2,117	2,117	2,117	2,117	2,117	2,117
Old	17,800	17,800	17,800	17,800	17,800	17,800	17,800	17,800	17,800
Total Pre-School Attendance	19,917	19,917	19,917	19,917	19,917	19,917	19,917	19,917	19,917

## NEW ENROLMENTS BY GRADE AT A FURTHER OF CHINA HOUSE SCHOOL

Infant Grade		1951	1952	1953	1954	1955	1956	1957	1958
New	1,417	1,417	1,417	1,417	1,417	1,417	1,417	1,417	1,417
Old	17,800	17,800	17,800	17,800	17,800	17,800	17,800	17,800	17,800
Total Infant Grade	19,217	19,217	19,217	19,217	19,217	19,217	19,217	19,217	19,217
Pre-School Grade		1951	1952	1953	1954	1955	1956	1957	1958
New	2,117	2,117	2,117	2,117	2,117	2,117	2,117	2,117	2,117
Old	17,800	17,800	17,800	17,800	17,800	17,800	17,800	17,800	17,800
Total Pre-School Grade	19,917	19,917	19,917	19,917	19,917	19,917	19,917	19,917	19,917

Infant Grade  
Pre-School Grade  
Enrolled as a 2 yr  
Infant Grade

1951 1952 1953 1954 1955 1956 1957 1958

1969  
ATTENDANCE BY CLINICS

<u>Infants</u>	<u>Bow-</u> <u>ness</u>	<u>City</u> <u>Hall</u>	<u>Forest</u> <u>Lawn</u>	<u>Hays-</u> <u>boro</u>	<u>North</u> <u>Hill</u>	<u>Killar-</u> <u>ney</u>	<u>Scar-</u> <u>boro</u>	<u>Wild-</u> <u>wood</u>	<u>TOTAL</u>
Attendance	1,453	3,575	2,319	3,723	4,535	1,205	3,959	231	21,000
Admissions	339	954	587	1,055	1,711	288	1,048	55	6,037
On Breast	92	64	40	131	177	40	92	4	640
On Bottle	247	890	547	924	1,534	248	956	51	5,397
<u>Pre-School</u>									
Attendance	2,556	5,340	4,063	4,297	5,039	1,149	3,441	292	26,177
Admissions	281	485	475	616	853	147	403	25	3,285
Doctor's Examinations	418	99	147	226	142	-	253	-	1,285
Doctor's Days	44	21	40	45	36	-	44	-	230
Total Attendance	4,009	8,915	6,382	8,020	9,574	2,354	7,400	523	47,177
No. of Clinic Days	115	242	154	242	241	51	242	19	1,306
Average Attendance	34.9	36.8	41.4	33.1	39.7	46.1	30.6	27.5	36.1





CLINIC LOCATIONS

Bowness Clinic, 6328-35th Avenue N.W.	Tuesday & Thursday	1:30 - 4:30 p.m.
Health Department, City Hall.	Daily Except Saturday	1:15 - 4:30 p.m.
Scarboro Health Centre, 17th Avenue & Scotland Street S.W.	Daily Except Saturday	1:15 - 4:30 p.m.
Knox Presbyterian Church, Richmond Road & 37th Street S.W.	Friday	1:30 - 4:30 p.m.
North Hill Health Centre, 1920-14th Avenue N.W.	Daily Except Saturday	1:15 - 4:30 p.m.
Haysboro Health Centre, 82nd Avenue & Haddon Road S.W.	Daily Except Saturday	1:30 - 4:30 p.m.
Wildwood Clinic, Woodcliff United Church Basement, 5010 Spruce Drive S.W.	1st & 3rd Wednesday in each month	1:30 - 4:00 p.m.
Forest Lawn Health Centre, 3810-17th Avenue S.E.	Monday, Tuesday & Friday	1:15 - 4:30 p.m.

HOME VISITS BY PUBLIC HEALTH NURSES

Pre-Natal	189	TB	114
Newborn	6,538	TB Contact	276
Infant - other than newborn	1,233	Acute Communicable Disease	310
Pre-School	7,362	Investigations re Complaint	189
School	9,325	Poison Control Visits	61
Adult	12,096	Mental Health	2,398
Geriatric	167	Handicapped	588
Family Planning	1,598	Nurseries & Kindergartens	61
Co-op Social Welfare	426	Kiwanis Camp	7
Family Folder	680		
First Visit To A Home	9,325	Not Home	3,685
Repeat Visit To A Home	2,943	Not Found	775

CONFERENCES

With Doctors	740	With Students	36,120
With Teachers	22,075	With Supervisors	3,224
With Parents	7,919	With Co-op Other Agencies	1,483
Meetings Attended	2,291	Meetings Addressed	389





The home visits by the Nurse are made:-

- (1) as a routine on return home from the hospital of the newborn infant;
- (2) as a result of problems revealed at the Clinic or School;
- (3) as a result of complaints or request by mother, relative or neighbour;
- (4) poisoning cases reported from hospital;
- (5) other agency request.

Most home visits provide health education and supportive counselling in care of children. Some reveal poor care and great disorganization; some mental and social problems requiring follow-up and communication with other sources of help like Physician, Guidance Clinic, Social Assistance or Child Protection.

Pre-Natal Classes at our Haysboro and our North Hill Clinic were held in series of seven evening classes. These serve only a very small proportion of the mothers in the City -- 61 mothers in 1969.

A proposal by the Health Department to hold a Family Planning Clinic once a week was approved by the City of Calgary and the Department of Social Development, Government of Alberta, as a cost-sharing project under The Preventive Social Services Act. This Clinic was opened May 15th, 1969, and is held on Thursday evenings. Attendance, while small at the beginning, grew and by the end of the year 119 persons had made use of the Clinic. 181 patient visits had been made altogether. This service consists of an interview of each patient by a Social Worker, information and explanation of the different methods, opportunity for the patient to question and discuss and choose, examination by a Doctor and prescription or fitting with what is necessary for the method chosen. Free supplies are available for those who qualify under a Means Test. Others are given a prescription which they have filled at a drugstore.

A larger than usual number of cases of Ringworm of the skin were seen among children in 1969. Many had in common the possession or handling of a pet rabbit bought at Easter time. For information about the prevalence of the different types of fungal infection causing Ringworm, a scraping and culture are done on a few of these children whose parents are willing. *Microsporon canis* was the variety isolated in seven of these; however, there were other cases, some of which were exposed to cattle and horses, and six isolations of *Trichophyton mentagrophytes* were made during the year.

There has been participation by our Staff Doctors and Nurses in educational programs for the public, for students, parents and for the staff of other health and social agencies on subjects including Child Behaviour, Communicable Disease Control, Abuse of Drugs, Family Life Education and Contraception. Brief periods for observation and participation in our work have been given to Student Nurses of the Calgary General Hospital, Holy Cross Hospital, Foothills Hospital, University of Alberta Public Health Nursing Class, Mount Royal College, and Doctors on the staff of the Calgary General Hospital.

Service on Committees by staff representing our Department has greatly increased this year due largely to our involvement in the Committees and Sub-Committees under the Calgary Regional Mental Health Planning Council. Others are the Advisory Committee of the Calgary School Board's Program for Unwed Mothers, Family Life Education Committee of the Social Planning Council of Calgary. Certain members of the staff have attended seminars and workshops on Maternal Care, Long-Term Patient Care, Eye-Ear-Nose and Throat Refresher Course, Infant and Child Care Refresher Course, Family Life Education, Administration and Supervision.





A school population of 96,404 was given Health Services in 1969. These were students of the Calgary Public School System, the Calgary Separate School System, Calgary Hebrew School, the Peretz Institute, the Calgary Christian School and the Highland Academy. Services rendered to the students by Public Health Nurses, Doctors, Dentists and Dental Hygienists are summarized in the following statistics:-

Inspections by Nurses	41,843	First Aid	21,913
Vision Tests	62,001	Phone Calls	31,118
Referred	6,978	Home Visits	9,325
Audiometer Screening Tests	10,728	Talks to Classes With or	
Referred	308	Without the Showing of a	
TB Tests	20,519	Film	422
Positive	371	Color Vision Tests	1,993
Dental Inspections	35,769	Color Vision Tests Failed	64
Referred	8,755	Exclusions from School Re	
Others Referred To:-		Communicable Disease	3,195
School Medical Officer	206		
Family Doctor	3,783		

#### SCHOOL TUBERCULIN TESTS

No. of Gr. 1 Pupils In Schools	Tuberculin Tests Accepted	% Accepting Tests	Tuberculin Tests Positive	% Found Positive Reactors	Number X-Rayed
9,270	8,756	94.5	59	0.67	47 @ City Hall 1 by own doctor 2 recent immigrants - coming later 9 yet to come

The group of 59 Positive Reactors includes:- 38 Immigrants with 24 BCG  
7 others with BCG  
1 previous positive

No. of Gr. IX Pupils In Schools	Tuberculin Tests Accepted	% Accepting Tests	Tuberculin Tests Positive	% Found Positive Reactors	Number X-Rayed
7,045	6,541	92.8	158	2.4	151 @ City Hall 4 by own doctor 2 recent immigrants - coming later 1 to report

The group of 158 Positive Reactors includes:- 44 Immigrants with 14 BCG  
1 Indian  
17 others with BCG  
6 previous positive reactors





Other Grades Tested (Other Ages Not Previously Tested)	Tuberculin Tests Positive	% Found Positive Reactors	Number X-Rayed
238	14	5.87	10 @ City Hall 4 yet to come

The group of 14 Positive Reactors includes:- 12 Immigrants with 10 BCG.

No. of School Staff Tested	No. of Positive Reactors	Number X-Rayed
3,530	192	1,696

Contacts (Staff and Students) Tested	No. of Positive Reactors	Number X-Rayed
464	63	224

One child was admitted to hospital for treatment of Active Tuberculosis, and that one not found as a result of skin testing. It was a case of Tubercular Pericarditis in a recent immigrant.

A moderately advanced case of Pulmonary Tuberculosis was discovered in a Grade XII student in November at the time of a respiratory illness. This student was Tuberculin Negative in Grade IX. Investigation of contacts is continuing.

The Nurses were active in the schools in giving immunizations:-

Diphtheria .....	2,879 doses	Sabin .....	4,157 doses
	18,238 completed		20,090 completed





Tetanus ..... 3,172 doses  
19,121 completed

Smallpox Vaccinations:-  
Primary ..... 2,557  
Revaccinations .... 14,823

Salk ..... 2,150 doses  
1,814 completed

The following Tables of Immunization Status represent the extent to which we are successful in getting a fully protected school population in Grade I (compare the October and May Tables). In other grades the differences between October and May are not so pronounced.

GRADE I IMMUNIZATION STATUS IN CITY HALL DISTRICT SCHOOLS - OCTOBER 1969

<u>Disease</u>	<u>Full</u>		<u>Lapsed</u>		<u>Inadequate</u>		<u>None</u>		<u>Unknown</u>		<u>Total</u>
		%		%		%		%		%	
Diphtheria	567	64.2	94	10.7	68	7.7	110	12.5	43	4.9	882
Tetanus	567	64.2	94	10.7	68	7.7	110	12.5	43	4.9	882
Salk Only	94	10.7	32	3.6	39	4.4	99	11.2	41	4.6)	882
Sabin	435	49.3	29	3.3	65	7.4	48	5.5		)	
Smallpox	415	47.1	100	11.3			328	37.2	39	4.4	882
Measles					44	5.0	246	27.9	49	5.6)	
(a) Live	302	34.2								)	
(B) Had										)	882
Disease	241	27.3								)	

GRADE I IMMUNIZATION STATUS IN CITY HALL DISTRICT SCHOOLS - MAY 1969

<u>Disease</u>	<u>Full</u>		<u>Lapsed</u>		<u>Inadequate</u>		<u>None</u>		<u>Unknown</u>		<u>Total</u>
		%		%		%		%		%	
Diphtheria	1,060	96.0	8	0.7	11	1.0	14	1.3	11	1.0	1,104
Tetanus	1,060	96.0	8	0.7	11	1.0	14	1.3	11	1.0	1,104
Salk Only	19	1.7	2	0.2	3	0.3	12	1.1	4	0.4)	1,104
Sabin	1,028	93.1	9	0.8	12	1.1	5	0.4	10	0.9)	
Smallpox	956	86.6	30	2.7	9	0.8	99	9.0	10	0.9	1,104
Measles					27	2.5	297	26.9	82	7.4)	
(a) Live	266	24.1								)	
(b) Had										)	1,104
Disease	432	39.1								)	

Examinations by School Medical Doctor - 2,594, for 900 of these the parent was present, and 1,267 of these were referred to private doctor, dentist or eye examiner. 220 audiometer threshold tests were performed, of these 103 showed hearing defect and 66 were referred to an ear specialist. Arrangements were made in 19 cases for the provision of glasses to a school child at the expense of the Health Department. 10 children were examined at City Hall by the Assistant Medical Officer of Health.



# IMMUNIZATIONS - 1969

D = Dose C = Completed  
P = Primary R = Revaccination

	DIPHTHERIA		PERTUSSIS		TETANUS		POLIO (SALK)		POLIO (SABIN)		SMALLPOX		MEASLES	
	D	C	D	C	D	C	D	C	D	C	P	R	Killed	Live
Infants	11,159	3,778	11,155	3,775	11,161	3,778	11,155	3,610	3,786	2,675	38		14,573	39
Pre-School	2,828	11,845	2,672	11,056	2,858	11,871	2,583	1,345	3,055	8,770	4,495	2,051	2,465	4,114
School Age	2,879	18,238			3,172	19,121	2,150	1,814	4,157	20,090	2,557	14,823		6
Adults	65	59			1,945	2,268	601	339	1,075	3,130	331	10,669		

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## GAMMA GLOBULIN AND TRAVEL IMMUNIZATIONS

	GAMMA GLOBULIN	DILUTED DIPHTHERIA	SCHICK TESTS	TYPHOID PARATYPHOID AB		TYPHUS		CHOLERA		RMSF*	RABIES	
				D	C	D	C	D	C		D	C
Infants	23			4	4	4	3	7	5			
Pre-School	200	1		152	74	56	41	63	55	14		
School Age	310	40	368	856	788	101	93	115	107	73		
Adults	501	68	460	2,461	2,406	924	918	812	921	240	24	12

\* ROCKY MOUNTAIN SPOTTED FEVER



Station	Date	Time	Temp (°C)	pH	DO (mg/L)	DO Sat (%)	Cond (µmhos/cm)	Turb (NTU)	Color (PCU)	Alkal (mg/L)	Total Solids (mg/L)	Hardness (mg/L)	Calc (mg/L)	Magn (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate (mg/L)	Ammonia (mg/L)	Phosphate (mg/L)	Iron (mg/L)	Copper (mg/L)	Zinc (mg/L)	Lead (mg/L)	Cadmium (mg/L)	Mercury (mg/L)	Other
Station 1	10/1/2011	08:00	18.5	7.2	8.2	100	150	10	15	120	150	100	50	30	100	50	10	5	2	1	0.5	0.1	0.05	0.01	0.001	0.0001
Station 2	10/1/2011	09:00	19.0	7.5	8.5	105	155	12	18	125	155	105	55	35	105	55	12	6	3	1	0.6	0.1	0.06	0.01	0.002	0.0002
Station 3	10/1/2011	10:00	19.5	7.8	8.8	110	160	15	22	130	160	110	60	40	110	60	15	8	4	1	0.7	0.1	0.07	0.01	0.003	0.0003

WATER QUALITY MONITORING

Station	Date	Time	Temp (°C)	pH	DO (mg/L)	DO Sat (%)	Cond (µmhos/cm)	Turb (NTU)	Color (PCU)	Alkal (mg/L)	Total Solids (mg/L)	Hardness (mg/L)	Calc (mg/L)	Magn (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate (mg/L)	Ammonia (mg/L)	Phosphate (mg/L)	Iron (mg/L)	Copper (mg/L)	Zinc (mg/L)	Lead (mg/L)	Cadmium (mg/L)	Mercury (mg/L)	Other
Station 4	10/1/2011	11:00	20.0	8.0	9.0	115	165	18	28	140	165	115	65	45	115	65	18	10	6	1	0.8	0.1	0.08	0.01	0.004	0.0004
Station 5	10/1/2011	12:00	20.5	8.2	9.2	120	170	20	32	145	170	120	70	50	120	70	20	12	7	1	0.9	0.1	0.09	0.01	0.005	0.0005
Station 6	10/1/2011	13:00	21.0	8.5	9.5	125	175	22	38	150	175	125	75	55	125	75	22	14	8	1	1.0	0.1	0.10	0.01	0.006	0.0006

WATER QUALITY MONITORING

WATER QUALITY MONITORING

USAGE OF SINGLE ANTIGENS IN 1968 AND 1968 IMMUNIZATIONS

	S A L K		S A B I N		M E A S L E S K I L L E D	M E A S L E S L I V E	S M A L L P O X	
	D O S E S	C O M P L E T E D	D O S E S	C O M P L E T E D			P R I M A R Y	R E V A C C .
Infants 1969	12	4	3,786	2,675	150	39	38	
Infants 1968	26	9	4,007	3,791	1,076	51	31	
Pre-School 1969	121	60	3,055	8,770	358	4,114	4,495	2,051
Pre-School 1968	158	75	2,764	8,481	920	7,205	4,396	1,961
School 1969	975	793	4,157	20,090		6	2,557	14,823
School 1968	2,231	876	4,246	20,926		3	2,985	15,521
Adults 1969	149	109	1,075	3,130			331	10,669
Adults 1968	243	250	1,579	3,303			332	8,700





USAGE OF MULTIPLE ANTIGENS IN 1969 AND 1968 IMMUNIZATIONS

	DIPH. + TET.		TET. + POLIO (BIAD)		DIPH. + TET. + POLIO (TRIAD)		DPT (TRIPLE)		DPT + POLIO (QUAD)		DPT + POLIO + MEASLES(QUINT)		TAB + TET.	
	DOSES	COMPL.	DOSES	COMPL.	DOSES	COMPL.	DOSES	COMPL.	DOSES	COMPL.	DOSES	COMPL.	DOSES	COMPL.
Infants 1969	4	3	1				7	169	258	73	10,890	3,533		
Infants 1968	20	6					17	81	1,097	340	9,863	2,728	1	
Pre-School 1969	148	789	20	6			248	9,777	893	703	1,531	576		11
Pre-School 1968	261	688	4	1			162	8,413	1,148	1,800	1,744	773	2	4
School 1969	1,713	17,228	18	14	1,157	1,007							213	610
School 1968	3,034	17,280	61	32				9		1			398	584
Adults 1969	3	6	414	197									1,420	1,877
Adults 1968	4	2	589	277									2,105	2,305
TOTALS 1969	1,868	18,026	453	217	1,157	1,007	255	9,946	1,151	776	12,421	4,109	1,633	2,498



SUMMARY OF WORK DONE BY PHYSICIANS IN CALGARY SCHOOLS IN 1969

No. of children examined on referral by teacher, parent, nurse or child	465
No. of these referred to family doctor, dentist or eye examiner	192
No. of children examined as routine new admissions to school other than	
Grade I	601
No. of these referred to doctor, dentist or eye examiner	337

NO. OF ROUTINE GRADE I EXAMINATIONS - 1,528

No. of these Health Grade A	1,158
No. of these Health Grade B	339
No. of these Health Grade C	<u>31</u>

No. of Grade I students referred to family doctor	108
No. of Grade I students referred to dentist	579
No. of Grade I students referred to eye examiner	51

DEFECTS FOUND IN ROUTINE GRADE I EXAMINATIONS

History of repeated Eczema, Asthma			
or Hay Fever	80	Heart	20
Skin	74	Respiratory	32
Nutrition	119	Abdomen - hernia	6
Speech	66	" - gastrointestinal	7
Ears	55	" - urinary	15
Eyes	61	" - genital	26
Nose	35	Ortho (posture)	43
Throat	71	" (feet)	76
Teeth	619	" (other)	19
Glands (Lymph)	31	Nervous System	19
Glands (Endocrine)	6	Mental Health	46

Urine Tests 2

Haemoglobin Tests 5

Consultations 58

First-Aid 16





SERA AND VACCINE DISTRIBUTED FOR USE IN CALGARY.

Diphtheria Antitoxin, 1,000 units .....	30
Diphtheria Antitoxin, 40,000 units .....	7
Diphtheria Toxoid, Singles .....	35
Diphtheria Toxoid, Diluted 4 cc. ....	14
Diphtheria Toxoid, Pertussis Vaccine & Tetanus Toxoid, Singles .....	1,999
Diphtheria Toxoid, Pertussis Vaccine & Tetanus Toxoid, 10 cc. ....	503
Diphtheria Toxoid & Tetanus Toxoid, Singles .....	1,017
Diphtheria Toxoid & Tetanus Toxoid, 6 x 6 cc. pkge. ....	97
Diphtheria Toxoid & Tetanus Toxoid, 10 cc. ....	293
Gas Gangrene Antitoxin, Vials of 10,000 units .....	36
Immune Serum Globulin, 2 cc. pkge. ....	224
Immune Serum Globulin, 5 cc. pkge. ....	261
Immune Serum Globulin, 10 cc. pkge. ....	193
Materials for Schick Tests (25) .....	209
Poliomyelitis Vaccine, 10 cc. pkge. ....	339
BIAD (Tetanus, Polio Vaccine), 10 cc. pkge. ....	158
TRIAD (DT - Polio Vaccine), 10 cc. pkge. ....	225
QUAD (DPT - Polio Vaccine), 10 cc. pkge. ....	854
QUINT (DPT, Polio - Measles) 10 cc. pkge. ....	1,769
Measles Vaccine, Inactivated, 10 cc. pkge. ....	72
Measles Vaccine, Live, 1 dose .....	4,385
Rabies Vaccine (Duck Embryo) 1 dose .....	105
Rocky Mountain Spotted Fever Vaccine, 3 cc. pkge. ....	65
Rocky Mountain Spotted Fever Vaccine, 15 cc. pkge. ....	7
Sabin, Poliovirus Vaccine, 10 dose pkge. ....	1,803
Sabin, Poliovirus Vaccine, 20 dose pkge. ....	1,755
Smallpox Vaccine, Singles .....	2,004
Smallpox Vaccine, 10's .....	3,700
Staphylococcus Toxoid, 4 cc. & 5 cc. pkge. ....	158
Staphylococcus Antitoxin, 20,000 units .....	3
Tetanus Antitoxin, 1,500 Units .....	66
Tetanus Antitoxin, 20,000 Units .....	11

THE LIST OF THE SPECIES OF THE ORDER LEPIDOPTERA

10	<i>Agrotis</i> <i>perla</i> , 1800
11	<i>Agrotis</i> <i>perla</i> , 1800
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99	<i>Agrotis</i> <i>perla</i> , 1800
100	<i>Agrotis</i> <i>perla</i> , 1800



Tetanus Toxoid, 30 cc. pkge. ....	151
Tetanus Toxoid, 3 cc. pkge. ....	1,482
Tetanus Toxoid, Paratyphoid & Typhoid Vaccine, 3 cc. pkge. ....	177
Tetanus Toxoid, Paratyphoid & Typhoid Vaccine, 25 cc. pkge. ....	122
Typhoid & Paratyphoid Vaccine, Singles .....	82
Typhoid & Paratyphoid Vaccine, 10 cc. pkge. ....	110

(All the above material supplied free by the Provincial Government)

Cholera Vaccine, 2½ cc. pkge. ....	180
Cholera Vaccine, 10 cc. pkge. ....	172
Typhus Vaccine, 3 cc. pkge. ....	72
Typhus Vaccine, 30 cc. pkge. ....	140

101	.....
102	.....
103	.....
104	.....
105	.....
106	.....

(All the above material supplied from the consolidated group report)

107	.....
108	.....
109	.....
110	.....

Dr. L. C. Allan,  
Medical Officer of Health,  
Health Department,  
City of Calgary.

Dear Sir:-

It is my privilege to submit the report of the City of Calgary Dental Department for the year 1969.

The dental branch of the City of Calgary Health Department is geared to the following activities:-

- (1) Educative
- (2) Preventive
- (3) Treatment

To carry out these pursuits, the City of Calgary maintains Dental Clinics at the following locations:-

- |  |   |
|--|---|
| (1) Calgary Civic Administration Building<br>333 - 7th Avenue S.E. | (3) Haysboro Health Clinic<br>Heritage Drive & Haddon Road S.W. |
| (2) Forest Lawn Health Clinic<br>3810 - 17th Avenue S.E.           | (4) North Hill Health Clinic<br>1920 - 14th Avenue N.W.         |

Each Clinic, when fully operational, is staffed by a Dentist, Dental Assistant and Dental Hygienist.

The services provided in these Clinics are as follows:-

(1) TOPICAL FLUORIDE APPLICATION

This service is carried out by the Dental Hygienists and includes a prophylaxis, an application of topical fluoride solution and an educational session with both parent and child. The charge for this service is \$1.00 per child.

Those eligible for treatment are all pre-school children, age three and upwards, and all Grade I children whose parents request and authorize such a service. There is no means test involved.

All children receiving dental treatment at one of the City Clinics are also included in this service.

(2) DENTAL TREATMENT

Includes comprehensive treatment services (as well as preventive education) for the children of parents in the lower income levels. These children are usually referred to one of the Dental Clinics by the Public Health Nurses, City Welfare Workers or Teachers.





Those eligible for the treatment are:-

- (a) all pre-school children, age three and upwards, whose parents can satisfy a means test;
- (b) all school children from Grade I up to and including those in Grade X whose parents can satisfy a means test.

The Means Test is set up in order that only the children of families of low economic status who cannot afford routine dental care will be taken care of. Only families whose combined taxable income has been confirmed as less than \$1,500.00 are eligible for this dental treatment.

In the treatment part of our program, 4,872 individual teeth were attended to. Of this number, 3,992 teeth (81.9%) were restored to healthy functioning units, while the remaining 880 (18.1%) had to be extracted either because the tooth could not be adequately restored and its presence constituted a health hazard or for the purpose of orthodontic treatment.

Of the number restored, 2,084 were permanent teeth and the remaining 1,588 were primary or baby teeth. Primary teeth appear in the child's mouth as early as six months and are there for a definite reason. It is Nature's plan that they remain there until the permanent teeth, which follow them, are almost ready to erupt. Premature loss is abnormal and often the forerunner of serious trouble and unnecessary expense to the parents. Neglected decay often leads to abscessed teeth, which may seriously affect the general health through improper "chewing" of food and/or through the spread of infection to other parts of the body. This is especially harmful in the vital years of growth and development when infected or decayed teeth will lower the child's resistance to illness. It is, therefore, desirable not only to prevent initiation of the lesions of oral disease but also to prevent further advancement of lesions that already exist.

While treatment is being carried out, the parents of these children are informed that dental decay is an infection and that this infection must be controlled. It is necessary that they realize that the pre-restorative phase is more important than the restorations themselves. To put a filling or an appliance into an infected mouth is a waste of time and money. The parents must also be made to realize that if the permanent teeth erupt into an infected mouth, they will in turn become infected.

To replace baby teeth which have been prematurely lost, the Dentists on staff inserted 149 space maintainers, whose purpose is to prevent the migration of teeth and preserve space for tooth eruption. Where spreading and drifting are allowed, the space remaining will not be wide enough to accommodate the permanent tooth that is destined to replace the lost baby tooth. The permanent teeth will then erupt in an abnormal position.

During the year, 87 orthodontic cases proceeded through the various phases of treatment, orthodontia being the treatment and correction of dental irregularities such as malposed or crooked teeth, usually by mechanical aids.





Statistics indicate that more than half the children of school age need orthodontic treatment and that half of these malocclusions are due to environmental factors such as premature loss of deciduous teeth, prolonged retention of deciduous teeth, mouth breathing and numerous biting or sucking habits. Since a rather high percentage of these cases are of a fairly simple nature if apprehended early, this Department is able to either prevent, intercept or correct many cases of malocclusion which otherwise might go unnoticed until a later age. Orthodontic problems are easier and cheaper to prevent than to treat and greater success can be achieved at lower cost before other oral complications have been superimposed.

Another service performed by this Department is classified as endodontic therapy (treatment of infected pulps). In selected cases, where the pulp or "nerve" of the tooth has become infected, the Dentist is sometimes able to preserve the tooth by removing the pulp tissue within the canal of the tooth and replacing it with a suitable material. During the year, 19 endodontic cases went through our Clinics. Teeth that cannot be saved by this method must be extracted, thus upsetting the functional values of the dental arches and, in many cases, the appearance and health of the patient.

The Dental Hygienists played a vital role in our program in the area of dental health education and prevention. The objective of the Dental Hygienist in Public Health is to help the public enjoy good (dental) health through education and clinical services. These clinical duties comprise:-

- (1) cleaning the child's teeth;
- (2) applying topical fluoride solution;
- (3) instruction in oral hygiene, nutrition, etc.;
- (4) pointing out abnormalities.

Concerning this aspect of the program, the Hygienists made 7,570 cursory examinations in the City Dental Clinics. These examinations are done without benefit of x-rays and are, therefore, incomplete -- the parents are informed of this fact. From the total number receiving cursory examinations, 7,569 children received prophylaxis (cleaning) and 7,529 received topical fluoride applications (2,697 school, 4,832 pre-school). Due to upset stomach caused by the swallowing of fluoride solution, or because of obstreperous behaviour, there were 41 unfinished cases. The parents of 7,562 of these children received counselling from the Hygienist on (dental) health education and 4,117 children were referred to private offices for dental treatment. These children are ineligible for treatment at the City Clinics because their parents are above the aforementioned combined family taxable income level of \$1,500.00.

Another very important part of the program is the educative - preventive aspect carried on by the Hygienists in the Calgary Elementary School System. In spite of the shortage of staff and our late start (October 1969), the Hygienists managed to visit 18 schools and talk to 70 classes consisting of approximately 2,124 pupils. Their services consisted of teacher consultation and direct classroom teaching, emphasizing diet and oral hygiene as pre-





ventive measures for good (dental) health.

In addition, a supplementary dental health program was initiated in the Elementary School System. The materials for this program, which will be generously supplied by a large commercial company, consist of a series of posters, pamphlets and teaching outlines. These will be distributed to the primary classrooms. In addition, each Grade 3 pupil will receive a dental health kit consisting of a toothbrush, toothpaste and disclosing tablets. It is our hope that these educational materials will increase the effectiveness of our school program. The Teacher, because of her training and experience, is the one best suited to teach a high standard of dental health, stressing effective preventive measures. Because of her position, she is able to do this on a continuous basis throughout the school year. Since most Teachers at the present time are not equipped to instruct in dental health, the Dental Hygienists will provide consultation and technical assistance in planning and conducting these lessons. They will also recommend improvements and present demonstrations at the request of the Teachers themselves.

It is to be hoped that by setting up a well balanced program we will be able to lure the children and parents into thinking positively about dental health and persuade them to adopt a set of desirable (dental) health habits.

In closing, I would like to take this opportunity to express my thanks and appreciation to you, the Deputy Medical Officer of Health, the Dental Division staff, the Public Health Nurses and the Health Department clerical staff for the help and co-operation received throughout the past year.

Respectfully submitted,

John J. Willey, B.A., D.D.S., D.D.P.H.,  
Director of Dental Services.



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## D E N T A L   S T A T I S T I C S   1 9 6 9

D E N T A L   S E R V I C E S	S C H O O L	P R E - S C H O O L
<u>EXTRACTIONS</u>		
Permanent	164	4
Deciduous	635	77
<u>FILLINGS</u>		
Permanent	2,040	44
Deciduous	1,059	529
<u>MISCELLANEOUS PROCEDURES</u>		
Bases	2,760	536
Prophylaxis	4,321	5,529
X-Rays	980	110
Endodontic Treatment	19	
Periodontal Treatment	5	1
Crowns	202	99
Space Maintainers	134	15
Ortho Appliances	85	2
<u>NUMBER OF TEETH TREATED</u>		
Permanent	2,204	48
Deciduous	1,694	606
<u>CLINIC CASES</u>		
Completed	4,121	5,469
Unfinished	3,333	585
<u>FLUORIDE APPLICATIONS</u>	4,308	5,500
<u>PARENT &amp; CHILD EDUCATION</u>	7,024	5,989
<u>EMERGENCY TREATMENTS</u>	59	11
<u>EXAMINATIONS</u>	1,943	662
<u>APPOINTMENTS</u>		
Paying	7,097	5,646
Free	532	57
<u>MISSED APPOINTMENTS</u>		
Paying	567	331
Free	12	

# GENERAL STATISTICS

DENTAL SERVICES		PERIOD	PERIOD
EXAMINATIONS	Examinations	1944	1945
	Examinations	1946	1947
TREATMENT	Treatment	1944	1945
	Treatment	1946	1947
DENTAL SUPPLIES	Supplies	1944	1945
	Supplies	1946	1947
	Supplies	1948	1949
	Supplies	1950	1951
	Supplies	1952	1953
	Supplies	1954	1955
	Supplies	1956	1957
	Supplies	1958	1959
DENTAL EQUIPMENT	Equipment	1944	1945
	Equipment	1946	1947
DENTAL OFFICES	Offices	1944	1945
	Offices	1946	1947
DENTAL PERSONNEL	Personnel	1944	1945
	Personnel	1946	1947
DENTAL SERVICES	Services	1944	1945
	Services	1946	1947
DENTAL SERVICES	Services	1948	1949
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DENTAL SERVICES	Services	1952	1953
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DENTAL SERVICES	Services	1956	1957
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DENTAL SERVICES	Services	2008	2009
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DENTAL SERVICES	Services	2012	2013
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DENTAL SERVICES	Services	2016	2017
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DENTAL SERVICES	Services	2640	2641
	Services		



Leslie C. Allan, M.B., Ch.B., D.P.H.,  
Medical Officer of Health,  
City of Calgary.

Dear Dr. Allan:-

It is with pleasure that I submit the Nursing Service Report from the Chest Clinic, at the City Hall, for the year 1969.

It would be gratifying to report that there were no new cases of Tuberculosis discovered in Calgary last year, a goal that should be possible. Such is not the case, and although there has been a gradual decline in both the number of new cases and the reactor rate, there is still much to be accomplished. Recently there was national publicity given to some sixty suspected Typhoid cases. Alberta, alone, has three times that number of new Active Tuberculosis cases each year with very little concern shown by the public. The patients themselves are often unconcerned, requiring unlimited patience and health teaching from those endeavouring to protect the public.

	<u>1969</u>	<u>1959</u>
Patients Visiting Office .....	2,639	1,402
Home Visits - Total .....	1,404	1,040
Chest Clinic Nurses .....	1,210	1,040
Public Health Nurses .....	194	-
Other Calls - To Schools, San. etc.	56	138
Streptomycin Injections .....	459	341
Tuberculin Tests - Total .....	2,977	3,690 (incl. 2,000 Grade X)
Positive .....	457	575
In the Office .....	1,493	744
Outside the Office .....	1,434	2,946 (incl. 2,000 Grade X)
New Active Cases .....	30	60
City Hall X-Rays .....	14,686	8,500
School Tuberculin Testing - Total	19,065	2,000
Reactor Rate - Grade I .....	0.67%	
Reactor Rate - Grade IX .....	2.4%	
Reactor Rate - Grade X .....		7.8%





- HOME VISITS - New admissions and contacts to be examined.
- Discharged patients continuing treatment as out-patients.
  - Overdue for review - persuading return to surveillance.
  - Moved - attempt to locate.
  - New inactives.
  - Old cases and new reactor contacts, starting one year Prophylactic drug treatment.
  - Mobile Unit and City Hall recalls to Clinic - it is useless to have any x-ray survey if abnormalities are not followed up.

CLINIC - Attendance has increased by 100 a month over 1959, with the majority reporting for Tuberculosis tests. Half of our testing is now done in the Clinic, compared to less than a quarter in 1959. This, plus numerous other factors necessitate more hours spent in Clinic. Approximately 500 Doctors' Reports are received each month for action to be determined. The volume of correspondence and telephone calls continues to increase. Information learned on a home visit, change of address or results of Tuberculin Tests must be reported to Central Registry and the Sanatorium. Since the mailing of reminders is now done by the Health Units rather than the Division of Tuberculosis Control, there are added responsibilities; e.g. we must now decide when patients failing to respond should be drawn to the attention of the Sanatorium or the Medical Officer of Health.

HEALTH EDUCATION - Personal contact with the patient in the home or the Clinic interview provides the best opportunity for health teaching. For the past ten years pamphlets have been more widely distributed and the use of films is growing. With the school survey alone, 18,000 each of "What Is The Tuberculin Test" and "1 Child In 20" is sent to the parent with the consent form. More than 6,000 Grade IX students view the "Quiet Betrayal" or the "Elusive Enemy". "Dying For A Smoke" has been used extensively by the Public Health Nurses. Each school health centre and library has a supply of health education material available. There is increased interest shown in Air Pollution pamphlets. We have also noticed an increase in the number of enquiries on other Respiratory Diseases, and pamphlets are useful to follow up the telephone call or interview. Many calls are received from persons attending the Mobile Unit, interpreting the results of a positive Tuberculin Test.

Student Nurses from Local Hospitals and school students seek help with projects to return to their classes. Also from our Clinic we are consulted by Industrial Nurses, Hospital Health Nurses, etc. in the establishing of pre-employment or staff testing programs. Unfortunately, many Nurses are entering employment with little or no training in Tuberculosis. It is essential that time be given to new Health Department members. In addition, nine Public Health Nurses from the University attended Clinic for field work.

WELFARE - One patient was driven to the Sanatorium for admission and eight others to attend Clinic. Transportation was also provided for three others to attend City Hall X-Ray. Help with the purchase of admission requirements was provided to two patients. Milk assistance was discontinued to four families, with four families presently receiving help. Social Assistance has improved over the years and the need for supplemental assistance is not often required.



THE FIRST - The education and training of the people.  
 The second - The economic development of the country.  
 The third - The social and cultural progress of the nation.  
 The fourth - The political and administrative reform.  
 The fifth - The military and naval expansion.  
 The sixth - The diplomatic and international relations.  
 The seventh - The scientific and technological advancement.  
 The eighth - The artistic and literary creation.

THE SECOND - The education and training of the people.  
 The second - The economic development of the country.  
 The third - The social and cultural progress of the nation.  
 The fourth - The political and administrative reform.  
 The fifth - The military and naval expansion.  
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 The seventh - The scientific and technological advancement.  
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THE THIRD - The education and training of the people.  
 The second - The economic development of the country.  
 The third - The social and cultural progress of the nation.  
 The fourth - The political and administrative reform.  
 The fifth - The military and naval expansion.  
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 The seventh - The scientific and technological advancement.  
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THE FOURTH - The education and training of the people.  
 The second - The economic development of the country.  
 The third - The social and cultural progress of the nation.  
 The fourth - The political and administrative reform.  
 The fifth - The military and naval expansion.  
 The sixth - The diplomatic and international relations.  
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THE FIFTH - The education and training of the people.  
 The second - The economic development of the country.  
 The third - The social and cultural progress of the nation.  
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 The fifth - The military and naval expansion.  
 The sixth - The diplomatic and international relations.  
 The seventh - The scientific and technological advancement.  
 The eighth - The artistic and literary creation.

The co-operation of the Health Department staff is sincerely appreciated.  
Without your guidance and support we could not function effectively.

Respectfully submitted,

IRENE H. WALTON,  
NURSE-IN-CHARGE.

THE DEPARTMENT OF THE ARMY  
OFFICE OF THE ADJUTANT GENERAL  
WASHINGTON, D. C.

ADJUTANT GENERAL'S OFFICE

ADJUTANT GENERAL'S OFFICE  
WASHINGTON, D. C.



MINIATURE X-RAY CLINIC  
PERSONS GIVEN CHEST X-RAY DURING 1969

Month	Total Attendance	Probable TB		Other Abnormalities				Total Abnormalities
		Active	Inactive	Pleurisy Inactive	Further Examination Required	Probable Neoplasm	Non-TB Conditions	
January	1,155		48	8	5	1	7	69
February	1,501		73	25	6		7	111
March	1,334		47	16	3		9	75
April	1,583		47	13	4		3	67
May	1,106		34	8	3		14	59
June	1,199		51	8	3		6	68
July	873		39	7	3		1	50
August	1,180		34	8	6		9	57
September	1,410		75	12	6		5	98
October	1,139		49	9	6		8	72
November	1,195		55	13	2		6	76
December	1,011		53	11	2		6	72
TOTALS	14,686	-	605	138	49	1	81	874

# STATE OF NEW YORK DEPARTMENT OF AGRICULTURE

Year	Month	Total Production	Value of Production				Total Production
			Grain	Other Farm Products	Stocks and Hides	Other Farm Products	
1901	January	1,100	100	100	100	100	1,100
1902	February	1,200	110	110	110	110	1,200
1903	March	1,300	120	120	120	120	1,300
1904	April	1,400	130	130	130	130	1,400
1905	May	1,500	140	140	140	140	1,500
1906	June	1,600	150	150	150	150	1,600
1907	July	1,700	160	160	160	160	1,700
1908	August	1,800	170	170	170	170	1,800
1909	September	1,900	180	180	180	180	1,900
1910	October	2,000	190	190	190	190	2,000
1911	November	2,100	200	200	200	200	2,100
1912	December	2,200	210	210	210	210	2,200
1913	January	2,300	220	220	220	220	2,300
1914	February	2,400	230	230	230	230	2,400
1915	March	2,500	240	240	240	240	2,500
1916	April	2,600	250	250	250	250	2,600
1917	May	2,700	260	260	260	260	2,700
1918	June	2,800	270	270	270	270	2,800
1919	July	2,900	280	280	280	280	2,900
1920	August	3,000	290	290	290	290	3,000
1921	September	3,100	300	300	300	300	3,100
1922	October	3,200	310	310	310	310	3,200
1923	November	3,300	320	320	320	320	3,300
1924	December	3,400	330	330	330	330	3,400
1925	January	3,500	340	340	340	340	3,500
1926	February	3,600	350	350	350	350	3,600
1927	March	3,700	360	360	360	360	3,700
1928	April	3,800	370	370	370	370	3,800
1929	May	3,900	380	380	380	380	3,900
1930	June	4,000	390	390	390	390	4,000
1931	July	4,100	400	400	400	400	4,100
1932	August	4,200	410	410	410	410	4,200
1933	September	4,300	420	420	420	420	4,300
1934	October	4,400	430	430	430	430	4,400
1935	November	4,500	440	440	440	440	4,500
1936	December	4,600	450	450	450	450	4,600
1937	January	4,700	460	460	460	460	4,700
1938	February	4,800	470	470	470	470	4,800
1939	March	4,900	480	480	480	480	4,900
1940	April	5,000	490	490	490	490	5,000
1941	May	5,100	500	500	500	500	5,100
1942	June	5,200	510	510	510	510	5,200
1943	July	5,300	520	520	520	520	5,300
1944	August	5,400	530	530	530	530	5,400
1945	September	5,500	540	540	540	540	5,500
1946	October	5,600	550	550	550	550	5,600
1947	November	5,700	560	560	560	560	5,700
1948	December	5,800	570	570	570	570	5,800
1949	January	5,900	580	580	580	580	5,900
1950	February	6,000	590	590	590	590	6,000
1951	March	6,100	600	600	600	600	6,100
1952	April	6,200	610	610	610	610	6,200
1953	May	6,300	620	620	620	620	6,300
1954	June	6,400	630	630	630	630	6,400
1955	July	6,500	640	640	640	640	6,500
1956	August	6,600	650	650	650	650	6,600
1957	September	6,700	660	660	660	660	6,700
1958	October	6,800	670	670	670	670	6,800
1959	November	6,900	680	680	680	680	6,900
1960	December	7,000	690	690	690	690	7,000
1961	January	7,100	700	700	700	700	7,100
1962	February	7,200	710	710	710	710	7,200
1963	March	7,300	720	720	720	720	7,300
1964	April	7,400	730	730	730	730	7,400
1965	May	7,500	740	740	740	740	7,500
1966	June	7,600	750	750	750	750	7,600
1967	July	7,700	760	760	760	760	7,700
1968	August	7,800	770	770	770	770	7,800
1969	September	7,900	780	780	780	780	7,900
1970	October	8,000	790	790	790	790	8,000
1971	November	8,100	800	800	800	800	8,100
1972	December	8,200	810	810	810	810	8,200
1973	January	8,300	820	820	820	820	8,300
1974	February	8,400	830	830	830	830	8,400
1975	March	8,500	840	840	840	840	8,500
1976	April	8,600	850	850	850	850	8,600
1977	May	8,700	860	860	860	860	8,700
1978	June	8,800	870	870	870	870	8,800
1979	July	8,900	880	880	880	880	8,900
1980	August	9,000	890	890	890	890	9,000
1981	September	9,100	900	900	900	900	9,100
1982	October	9,200	910	910	910	910	9,200
1983	November	9,300	920	920	920	920	9,300
1984	December	9,400	930	930	930	930	9,400
1985	January	9,500	940	940	940	940	9,500
1986	February	9,600	950	950	950	950	9,600
1987	March	9,700	960	960	960	960	9,700
1988	April	9,800	970	970	970	970	9,800
1989	May	9,900	980	980	980	980	9,900
1990	June	10,000	990	990	990	990	10,000
1991	July	10,100	1,000	1,000	1,000	1,000	10,100
1992	August	10,200	1,010	1,010	1,010	1,010	10,200
1993	September	10,300	1,020	1,020	1,020	1,020	10,300
1994	October	10,400	1,030	1,030	1,030	1,030	10,400
1995	November	10,500	1,040	1,040	1,040	1,040	10,500
1996	December	10,600	1,050	1,050	1,050	1,050	10,600
1997	January	10,700	1,060	1,060	1,060	1,060	10,700
1998	February	10,800	1,070	1,070	1,070	1,070	10,800
1999	March	10,900	1,080	1,080	1,080	1,080	10,900
2000	April	11,000	1,090	1,090	1,090	1,090	11,000
2001	May	11,100	1,100	1,100	1,100	1,100	11,100
2002	June	11,200	1,110	1,110	1,110	1,110	11,200
2003	July	11,300	1,120	1,120	1,120	1,120	11,300
2004	August	11,400	1,130	1,130	1,130	1,130	11,400
2005	September	11,500	1,140	1,140	1,140	1,140	11,500
2006	October	11,600	1,150	1,150	1,150	1,150	11,600
2007	November	11,700	1,160	1,160	1,160	1,160	11,700
2008	December	11,800	1,170	1,170	1,170	1,170	11,800
2009	January	11,900	1,180	1,180	1,180	1,180	11,900
2010	February	12,000	1,190	1,190	1,190	1,190	12,000
2011	March	12,100	1,200	1,200	1,200	1,200	12,100
2012	April	12,200	1,210	1,210	1,210	1,210	12,200
2013	May	12,300	1,220	1,220	1,220	1,220	12,300
2014	June	12,400	1,230	1,230	1,230	1,230	12,400
2015	July	12,500	1,240	1,240	1,240	1,240	12,500
2016	August	12,600	1,250	1,250	1,250	1,250	12,600
2017	September	12,700	1,260	1,260	1,260	1,260	12,700
2018	October	12,800	1,270	1,270	1,270	1,270	12,800
2019	November	12,900	1,280	1,280	1,280	1,280	12,900
2020	December	13,000	1,290	1,290	1,290	1,290	13,000
2021	January	13,100	1,300	1,300	1,300	1,300	13,100
2022	February	13,200	1,310	1,310	1,310	1,310	13,200
2023	March	13,300	1,320	1,320	1,320	1,320	13,300
2024	April	13,400	1,330	1,330	1,330	1,330	13,400
2025	May	13,500	1,340	1,340	1,340	1,340	13,500
2026	June	13,600	1,350	1,350	1,350	1,350	13,600
2027	July	13,700	1,360	1,360	1,360	1,360	13,700
2028	August	13,800	1,370	1,370	1,370	1,370	13,800
2029	September	13,900	1,380	1,380	1,380	1,380	13,900
2030	October	14,000	1,390	1,390	1,390	1,390	14,000
2031	November	14,100	1,400	1,400	1,400	1,400	14,100
2032	December	14,200	1,410	1,410	1,410	1,410	14,200
2033	January	14,300	1,420	1,420	1,420	1,420	14,300
2034	February	14,400	1,430	1,430	1,430	1,430	14,400
2035	March	14,500	1,440	1,440	1,440	1,440	14,500
2036	April	14,600	1,450	1,450	1,450	1,450	14,600
2037	May	14,700	1,460	1,460	1,460	1,460	14,700
2038	June	14,800	1,470	1,470	1,470	1,470	14,800
2039	July	14,900	1,480	1,480	1,480	1,480	14,900
2040	August	15,000	1,490	1,490	1,490	1,490	15,000
2041	September	15,100	1,500	1,500	1,500	1,500	15,100
2042	October	15,200	1,510	1,510	1,510	1,510	15,200
2043	November	15,300	1,520	1,520	1,520	1,520	15,300
2044	December	15,400	1,530	1,530	1,530	1,530	15,400
2045	January	15,500	1,540	1,540	1,540	1,540	15,500
2046	February	15,600	1,550	1,550	1,550	1,550	15,600
2047	March	15,700	1,560	1,560	1,560	1,560	15,700
2048	April	15,800	1,570	1,570	1,570	1,570	15,800
2049	May	15,900	1,580	1,580	1,580	1,580	15,900
2050	June	16,000	1,590	1,590	1,590	1,590	16,000
2051	July	16,100	1,600	1,600	1,600	1,600	16,100
2052	August	16,200	1,610	1,610	1,610	1,610	16,200
2053	September	16,300	1,620	1,620	1,620	1,620	16,300
2054	October	16,400	1,630	1,630	1,630	1,630	16,400
2055	November	16,500	1,640	1,640	1,640	1,640	16,500
2056	December	16,600	1,650	1,650	1,650	1,650	16,600
2057	January	16,700	1,660				

SUMMARY OF MOBILE CHEST X-RAY OPERATIONS, CITY OF CALGARY,  
JANUARY 1st, 1969 - DECEMBER 31st, 1969

MOBILE UNIT #3 CITY OF CALGARY OPERATIONS	# REGISTERED TO ATTEND CLINIC		* 4,515	
	# PERSONS X-RAYED		6,517	
	% X-RAYED OF # REGISTERED		-	
	PROBABLE TB	INACTIVE	15	
		ACTIVE	-	
	OTHER ABNORMALITIES	PLEURISY	INACTIVE	14
			ACTIVE	-
		FURTHER EXAMINATION REQUESTED		24
		PROBABLE NEOPLASM		5
	NON - TB CONDITIONS		17	
TOTAL ABNORMALITIES		75		
#TUBERCULIN TESTED		5,839		
TOTAL MOBILE OPERATIONS FOR THE CITY OF CALGARY				

\* Incomplete





CITY OF CALGARY HEALTH DEPARTMENT  
FINANCIAL STATEMENT

	<u>1969</u>	<u>1968</u>
<u>HEALTH</u>		
<u>ADMINISTRATION</u>		
Salaries	69,415.54	63,334.38
Travel Expense	266.30	113.15
Private Car Allowances	492.95	506.94
Equipment Maintenance	397.35	371.00
Printing, Stationery & Office Supplies	1,971.81	1,881.22
Janitorial & Housekeeping Supplies	19.30	10.35
Sundries	337.29	186.07
Office Machines	220.00	470.75
Purchasing & Stores Handling	1,838.00	1,779.00
	74,958.54	68,652.86
<u>SCHOOL MEDICAL SERVICES DIVISION</u>		
Salaries	341,358.19	292,336.08
Travel Expenses	618.10	449.60
Private Car Allowances	15,292.26	14,085.78
Passenger Car Rentals	-	1,200.00
Employees' Transit Tickets & Passes	779.00	1,135.24
Equipment Maintenance	88.00	54.23
Nurses' Lab Coats	256.00	1,170.00
Printing, Stationery & Office Supplies	5,680.93	3,875.59
Medical Supplies	7,320.71	6,090.42
Sundries	1,065.22	1,404.95
Office Machines	133.95	-
Glasses for Underprivileged Children	429.55	323.60
Staff Development & Training	423.00	364.35
	373,444.91	322,489.84
<u>SCHOOL &amp; PRE-SCHOOL DENTAL SERVICES DIVISION</u>		
Salaries	116,930.02	97,435.52
Travel Expenses	102.65	56.00
Private Car Allowances	400.54	344.15
Employees' Transit Tickets & Passes	49.40	49.40
Maintenance of Equipment	558.95	106.73
Laundry Service	3,348.45	1,714.90
Printing, Stationery & Office Supplies	615.22	632.36
Dental Supplies	6,938.38	5,391.99
Sundries	289.41	92.43
Dental Equipment	-	900.00
Furniture & Furnishings	-	42.00
Staff Development & Training	101.50	-
Charges Recovered	15,154.65 CR.	14,575.00 CR.
	114,179.87	92,190.48

# STATE OF CALIFORNIA DEPARTMENT OF REVENUE

1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	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	<u>1969</u>	<u>1968</u>
<u>INFANT &amp; PRE-SCHOOL CLINICS DIVISION</u>		
Salaries	336,914.15	297,842.51
Private Car Allowances	15,292.26	14,017.40
Passenger Car Rentals	-	1,200.00
Employees' Transit Tickets & Passes	779.00	1,135.26
Printing, Stationery & Office Supplies	1,541.48	1,278.44
Sundries	477.14	411.07
Furniture & Furnishings	170.53	92.56
	<hr/> 355,174.56	<hr/> 315,977.24
<u>GENERAL HEALTH SERVICES DIVISION</u>		
Salaries	13,279.41	10,936.28
Employees' Transit Tickets & Passes	228.00	228.00
Equipment Maintenance	13.00	-
Printing, Stationery & Office Supplies	1,056.88	856.34
Medical Supplies	513.08	479.82
Sundries	-	55.52
Drugs & Sera	1,292.20	1,073.89
Chemicals	160.91	185.22
Milk for Sickly & Undernourished	896.55	810.15
Special Health Programs	5,930.51	2,147.19
Charges Recovered	5,643.85	CR. -
	<hr/> 17,726.69	<hr/> 16,772.41
<u>INSPECTION SERVICES DIVISION</u>		
Salaries	176,627.44	160,267.87
Travel Expense	92.25	161.10
Private Car Allowances	13,516.60	13,341.20
Passenger Car Rentals	4,580.00	4,785.00
Equipment Maintenance	424.44	368.64
Laundry Service	92.20	49.15
Milk Inspection	1,252.84	1,194.72
Meat Inspection	4,001.35	4,084.73
Fly & Insect Control	6,619.28	9,592.79
Pigeon Control Program	805.00	755.00
Printing, Stationery & Office Supplies	782.97	754.74
Laboratory Supplies	2,861.27	2,847.01
Sundries	176.28	193.81
Laboratory Equipment	1,004.80	259.73
Furniture & Furnishings	237.36	-
Staff Development & Training	370.50	40.00
	<hr/> 213,444.58	<hr/> 198,695.49

1997		1998	
GENERAL SERVICES DIVISION		GENERAL SERVICES DIVISION	
Salaries	150,000.00	Salaries	150,000.00
Employee Benefits	10,000.00	Employee Benefits	10,000.00
Travel	1,000.00	Travel	1,000.00
Telephone	1,000.00	Telephone	1,000.00
Printing	1,000.00	Printing	1,000.00
Postage	1,000.00	Postage	1,000.00
Supplies	1,000.00	Supplies	1,000.00
Contract Services	1,000.00	Contract Services	1,000.00
Other	1,000.00	Other	1,000.00
<b>Total</b>	<b>165,000.00</b>	<b>Total</b>	<b>165,000.00</b>
GENERAL SERVICES DIVISION		GENERAL SERVICES DIVISION	
Salaries	150,000.00	Salaries	150,000.00
Employee Benefits	10,000.00	Employee Benefits	10,000.00
Travel	1,000.00	Travel	1,000.00
Telephone	1,000.00	Telephone	1,000.00
Printing	1,000.00	Printing	1,000.00
Postage	1,000.00	Postage	1,000.00
Supplies	1,000.00	Supplies	1,000.00
Contract Services	1,000.00	Contract Services	1,000.00
Other	1,000.00	Other	1,000.00
<b>Total</b>	<b>165,000.00</b>	<b>Total</b>	<b>165,000.00</b>
GENERAL SERVICES DIVISION		GENERAL SERVICES DIVISION	
Salaries	150,000.00	Salaries	150,000.00
Employee Benefits	10,000.00	Employee Benefits	10,000.00
Travel	1,000.00	Travel	1,000.00
Telephone	1,000.00	Telephone	1,000.00
Printing	1,000.00	Printing	1,000.00
Postage	1,000.00	Postage	1,000.00
Supplies	1,000.00	Supplies	1,000.00
Contract Services	1,000.00	Contract Services	1,000.00
Other	1,000.00	Other	1,000.00
<b>Total</b>	<b>165,000.00</b>	<b>Total</b>	<b>165,000.00</b>

	<u>1969</u>	<u>1968</u>
<u>HEALTH CENTRES MAINTENANCE DIVISION</u>		
Building & Property Rentals	800.00	800.00
Building & Property Maintenance	2,680.29	1,629.70
Equipment Maintenance	45.96	183.36
Utilities	2,770.44	2,897.63
Telephones	2,411.80	2,331.55
Janitorial Service	5,444.20	4,975.00
Laundry Service	1,368.10	995.60
Janitorial & Housekeeping Supplies	593.66	557.41
Sundries	-	82.50
Grounds Development	261.18	-
	<hr/> 16,375.63	<hr/> 14,452.75
<u>SUMMARY</u>		
Administration Division	74,958.54	68,652.86
School Medical Services Division	373,444.91	322,489.84
School & Pre-School Dental Services Division	114,179.87	92,190.48
Infant & Pre-School Clinics Division	355,174.56	315,977.24
General Health Services Division	17,726.69	16,772.41
Inspection Services Division	213,444.58	198,695.49
Health Centres Maintenance Division	16,375.63	14,452.75
V.O.N. Pre-Natal & Post-Natal Visit Subsidy	11,316.00	9,400.00
	<hr/> 1,176,620.78	<hr/> 1,038,631.07
Less:-		
Fees, Charges Recovered, Misc. Sales	4,925.40	4,656.00
Provincial Government Health Grants	349,163.16	313,137.24
	<hr/> 822,532.22	<hr/> 720,837.83
Population	369,025	354,856
Per Capita Expenditure	2.23	2.03
Per Capita Expenditure Without Consideration of Grants	3.17	2.91





REPORT OF DISTRICT DIRECTOR OF VICTORIAN ORDER OF NURSES

It is my responsibility and privilege to report on the service provided to the community by the Victorian Order of Nurses during 1969. This was the sixtieth year of service provided to the citizens of Calgary by the Victorian Order of Nurses.

The Branch with one nurse employed was founded in 1909 when Calgary's population was 60,000 strong. In 1915, this single nurse, who by then had acquired a bicycle, made 2,175 visits to 432 patients and assisted with 112 home deliveries. By 1959, ten years ago, there were 9 nurses employed by the Calgary V.O.N. and 5 years ago the total number rose to 11 nurses (and 10 cars). Our present staff consists of 14 nurses, and we have 7 relief nurses who assist us.

Prior to 1940, the Calgary Branch was supported by money raised through tag days, teas, dances and through solicited donations. In that year the Community Chest was organized and the V.O.N. became a member agency. It is interesting to note that 10 years ago in 1959, the Community Chest and donations provided 48% of V.O.N.'s income, while in the past year of 1969 the funds allocated to the V.O.N. from the United Fund and donations received directly made up 53% of our Agency's income.

It would appear that many patients, particularly those on fixed incomes, have been unable to meet the increasing costs of medical and nursing care and the percentage of income which V.O.N. received from this source has dropped from 30% ten years ago to 21% in 1969. At the same time, the percentage of income derived from municipal and provincial governments has not risen in this period but rather dropped slightly.





During 1969, approximately 3,000 persons were admitted to V.O.N. service of which nearly 1,700 were mothers and babies and 1,300 ill patients. Service to a maternity patient extends over only a 4 to 6 week period, while persons suffering from illness, particularly chronic illness, may require nursing care for the entire year. It is not surprising therefore, to find that while just under 4,500 visits were classified as maternity, over 22,500 were made to the ill. These figures represent a 4% increase in patients and an 8% increase in visits over the previous year's service.

To cope with this increased demand 13% more nursing time was used through additional relief staff and the addition of a 14th nurse to the Calgary staff complement in October. Three hundred more hours were also spent in activities other than the visiting nurse service which is always the core of the V.O.N. work. These other activities included referral programs at the Calgary General, Holy Cross, Foothills and Rockyview Hospitals; a weekly consultation service to the Family Practise Unit and prenatal instruction in the Calgary School Board Program for Unwed Mothers.

This latter project was sponsored by the Adult Education Division of the Calgary School Board and reflected their growing concern for the increasing number of high school girls who were leaving the educational stream because of pregnancy and never finishing their high school.

The first few girls were enrolled in March and Mrs. Nickell of the V.O.N. began weekly prenatal instruction on March 13th. To date,



approximately 70 students have been involved in the program and registration in January 1970 reached the 50 mark. It is hoped that provincial support will eventually be obtained for this project.

Staff turn-over is a fact of life in our mobile society and particularly when a staff is female. During 1969, five staff resigned, four of them because of family moves or pregnancy. Two were replaced by transfers from other branches and three by new appointments. In October, a 14th nurse was added to the staff. I would like to pay sincere tribute to these nurses who functioned under a good deal of pressure, particularly during the first four months of the year when visits increased by 1,000 over those for the same period of the previous year.

One hundred and twenty (120) undergraduate students from nursing schools of the Calgary General, Holy Cross and Foothills Hospitals and Mount Royal College spent  $\frac{1}{2}$  to 1 day each with V.O.N. staff observing visiting nursing service. Seven post-graduate students majoring in public health spent two weeks of observation and practise with our agency in April and May.

Working closely with other agencies in the Community has always been one of the privileges of the V.O.N. We have found that the proximity to those with whom we share the Community Services Building has been a real advantage. We would like to thank the various clubs and organizations which have assisted us in tangible ways to provide extras for patients - the Samaritan Club, the Beta Sigma Phi (Eta Chapter), the Friendly Visitor Service of the Volunteer Bureau - as well



consequently to identify these and included in the program and reg-

istration in the 1950s. The 1950s were the 1950s. It is known that

provincial maps will eventually be obtained for this project.

That summary is a list of life in the world today.

It is important that a study is made. The study is the study.

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as those who helped us financially to replace cars. Donations were received from a variety of sources, including grateful patients and families as well as a doctor who thus expressed his thanks for V.O.N. service to his patients.

As an organization involved with the care of all types of patients, and aware of many gaps in service in the community, V.O.N. signified its interest in assisting with the formulation of a mental health program in Calgary area in line with the recommendations of the Blair Report. The responsibility for such planning has been delegated to the "Calgary and Region Mental Health Planning Organization" by Mr. Henderson, Minister of Health. The Calgary Branch is represented along with the City Health Department on the Community Agencies Committee and the District Director, as a representative of the Alberta Association of Registered Nurses, is a member of the Professional Program Design and Implementation Committee. Various Board members also participate as members of committees and the Planning Council.

In looking towards the future, we cannot help but feel that the Victorian Order Service has an important part to play in the future of this community as the delivery of medical services gradually changes with more emphasis on patients remaining in their own homes as Home Care recipients; as the new Faculty of Medicine and School of Nursing develop at the University of Calgary and as more effort is made to co-ordinate the work of all organizations and groups providing service to the sick.

Respectfully submitted,

Betty Eggen,  
District Director.





SERVICE STATISTICSNUMBER OF PATIENTS SERVED

	<u>1969</u>	<u>1968</u>
TOTAL	<u>2,996</u>	<u>2,889</u>
<u>Maternity</u>		
Prenatal	10	13
Postnatal and Newborn	<u>1,687</u>	<u>1,489</u>
	1,697	1,502
<u>Morbidity</u>		
Infant	30	75
Preschool	18	23
School Age	7	32
Adult	<u>1,244</u>	<u>1,257</u>
	1,299	1,387

NUMBER OF VISITS MADE

TOTAL	<u>27,293</u>	<u>25,260</u>
Maternity	4,478	4,204
Morbidity	22,815	21,056

OTHER NURSING ACTIVITIES

<u>Prenatal Teaching</u>		
Sessions	28	8
<u>Hospital Referral Programs</u>	4	4
Total Referrals	697	808
<u>Family Practise Unit Consultation</u>		
Sessions	47	6







