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# REPORT

of the

Local Board of Health



THE CITY of EDMONTON

ALBERTA

1963

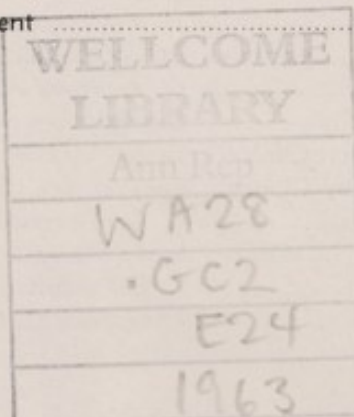
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## ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH

Chairman and Members, Local Board of Health

EDMONTON, Alberta

Ladies and Gentlemen:

It is with pleasure that I present for your consideration the annual report of the services of the Local Board of Health of Edmonton.

The population of the city as recorded by the 1963 census was 303,756, an increase of 8,789 or 2.97%. Of this number, 6,705 represented the natural increase.

The falling marriage rate reflects the falling birth rate. However, reasonably both marriage and birth rates may be expected to rise again as the large number of children born in the immediate post war years reach maturity.

The death rate remained fairly steady at 6.4 per thousand population. The leading causes of death were consistent with previous years — that is, diseases of the heart, cancer and diseases of the blood vessels of the central nervous system.

The fourth leading cause of death remains "external causes", i.e., violence, accidents, etc. More deaths in this category were recorded in 1963 than ever previously. There were more homicides and more fatalities in the general accident field. The rising trend in automobile accidents and in suicides continued. The calm acceptance of 158 deaths of this nature, many of which would be preventable is at least curious. There is little doubt of the reaction if these 158 deaths had been due to poliomyelitis.

The reported incidence of infectious hepatitis fell by 15%. One case of typhoid was reported in a boy and a carrier was subsequently identified. One case of diphtheria and two subsequent carriers were reported in the city. The case was infected outside the city. An infant died from whooping cough. There was no poliomyelitis reported amongst our citizens. In all there were nine deaths from communicable disease excluding syphilis.

Five of these — over 50%, were due to tuberculosis. One hundred and fifty-six cases of tuberculosis were reported which is the highest incidence since 1959 when a large immigrant increment was obtained. Good facilities for detection, control and treatment are available in the community. The real value of these efforts depends not on the acceptance of these facilities but on their personal utilization by citizens.

The increasing industrialization of the city and consequent concern with pollution of the atmosphere warrant special mention in this report. An increasing number of sampling devices have been in operation over the past two or three years. Base levels of pollution are thus being established.



Under normal circumstances, adverse levels of atmospheric pollution are not experienced in Edmonton. Exceptional circumstances are occasioned by meteorological incidents known as inversions, in that an inversion will not permit the natural dispersion of pollution which, in consequence, accumulates materially.

Under such conditions a haze is prone to appear over the city. Every building in this community utilizes natural gas for heating purposes, of which the main end products of combustion are carbon dioxide and water vapour. During cold weather inversions, the large amounts of water vapour thusly released freeze to particles suspended in atmosphere, thus accounting for haze. The haze naturally contains pollutants, but not in concentrations comparable to that of coal-burning communities.

Increasing attention doubtless should be directed to the internal combustion engine as the most rapidly increasing source of pollution present in the community. There are over 125,000 automobiles in Edmonton and this number increases by 7 - 8,000 each year. 70,000,000 gallons of gasoline and 2,000,000 gallons of Diesel oil are retailed and largely combusted in Edmonton annually. Inevitably significant amounts of pollution are thusly released. The science of control of pollution is generally in its infancy and satisfactory control mechanisms for internal combustion engines have not yet been developed. Experimental developments in California will be watched with interest.

This city is fortunate in that the mass of noxious industrial atmospheric discharge common to industrial communities are not found. The Provincial acceptance of responsibility and provision of legislation represents control developing in the early stages of a problem which inevitably will accompany industrialization. Control is most expensive and successful mechanisms, individual to the problem of each industry, are difficult to develop. Nevertheless, in general, prospects for control are favourable.

I am happy to record our appreciation of the assistance we have received in the past year from citizens and various levels and divisions of government.

The consistent interest and support received from the members of the Local Board of Health has been invaluable in the effective operation of the department.

Finally, I must commend the entire staff of the Local Board of Health for the conscientious efforts put forth on behalf of the citizens of Edmonton.

Yours truly,

G. H. BALL, M.B., Ch.B., D.P.H.,  
Medical Officer of Health.



## ORGANIZATION AND ADMINISTRATION

The city of Edmonton, under the Public Health Act of Alberta, constitutes a Health District. The health services are operated by and under the sole control of the Local Board of Health. Representation on the Board is obtained by Council, the school boards, the medical and dental professions. The Board meets monthly.

The chief executives of the Local Board of Health are the Medical Officer of Health and the Deputy Medical Officer of Health.

Organizationally, the Department consists of a number of divisions, each responsible through an administrative chain to the executive. The administrative chain provides resource and supervision in specific areas to the general duty personnel in the field.

The city is divided into five regions, each tributary to a regional office. The various divisions except administration, are represented in these offices. The divisions are:

### **Administration:**

Under the supervision of the Administrative Secretary performing

- i. general office procedures
- ii. vital statistics
- iii. administration in connection with Board of Health meetings.

### **Medical Division:**

Graduate medical officers performing general duties in the clinics, in the schools and on the district.

### **Nursing Division:** (Graduate Public Health and Registered Nurses)

(a) **Infant and Pre-School:** A cadre of specialized nurses, one to each regional office clinic, operating the clinic and ancillary services with and through the district public health nurse.

(b) **Immunization Clinics:** Specialized nurses, one to each regional office clinic, operating the clinic with the assistance of the district public health nurses.

(c) **District Public Health Nursing Service:** Each region is composed of a number of districts, to each of which is allotted a district public health nurse. The district public health nurse is responsible for all nursing service therein. Her efforts are supplemented in certain spheres by the specialized clinic personnel.

### **Tuberculosis Division:**

The core of this division consists of the specialized tuberculosis nursing staff supplied to the Department by the Kinsmen of Edmonton. Control is exercised directly and indirectly in co-operation with the district public health nursing service. Close liaison is maintained with the Tuberculosis Division of the Provincial Health Department.

### **Environmental Hygiene:**

A group of graduate public health inspectors, operating both from the central office and the regional offices, maintaining at this time a completely generalized service. It becomes apparent that complete generalization of service will be impossible to maintain much longer. A certain degree of specialization is to be anticipated in the near future.

### **Dental Division:**

Under the supervision of the Dental Director, a graduate dentist supplies clinical maintenance to the dentally indigent, and dental auxiliaries (hygienists) survey, counsel and apply prophylactic treatment to the pre-school and school children.

### **Food Inspection Division:**

A graduate veterinarian employed in meat inspection and responsible directly and indirectly through the Public Health Inspector for food manufacturing and processing.

### **Milk and Water Division:**

The Milk and Water Division is responsible for the clean and disease-free production of milk and milk products, the supervision of water supplies and swimming pools.

## SUMMARY OF STATISTICS

Area of City—68.67 Square Miles

	1963	1962	1961	1960	1959
Population .....	303,756	294,967	276,018	269,314	260,733
Persons per acre of land .....	6.9	6.7	7.5	7.4	8.8
Cost per capita .....	2.08	1.96	1.76	1.75	1.63
School enrolment .....	70,277	66,970	61,555	57,490	53,490
Natural increase of population .....	6,705	7,043	6,701	6,986	6,889

## BIRTHS

Total births .....	12,275	12,593	12,458	12,847	12,425
Resident births only .....	8,643	8,857	8,428	8,705	8,599
Resident rate per 1,000 population .....	28.45	30.02	30.4	32.3	32.9

## STILLBIRTHS

Total stillbirths .....	142	142	128	142	138
Resident stillbirths only .....	101	91	89	92	84
Resident stillbirths rate per 1,000 living births .....	11.7	10.3	10.5	10.5	9.8

## DEATHS

Total deaths .....	2,665	2,652	2,536	2,552	2,460
Resident deaths only .....	1,938	1,814	1,726	1,737	1,710
Resident rate per 1,000 population .....	6.4	6.1	6.2	6.5	6.5

## INFANT MORTALITY

Total deaths under 1 year of age .....	289	294	337	326	275
Resident deaths under 1 year of age .....	174	162	200	199	168
Resident rate per 1,000 living births .....	20.1	18.3	23.7	22.8	19.5

## NEONATAL DEATHS

Resident deaths under 28 days .....	137	127	147	152	130
Rate per 1,000 living births .....	15.8	14.3	17.4	17.4	15.1

## MATERNAL MORTALITY

Maternal deaths (Resident only) ..	0	2	1	0	2
Rate per 1,000 living births .....	.00	.23	.11	.00	.23

## MARRIAGES

Marriages .....	3,119	3,208	3,112	3,471	3,270
Rate per 1,000 population .....	10.3	10.9	11.2	12.5	12.3

## REGISTERED VITAL STATISTICS

	1963	1962	1961	1960	1959
<b>BIRTHS</b>					
Total births .....	12,275	12,593	12,458	12,847	12,425
Resident births only .....	8,643	8,857	8,428	8,705	8,599
Male .....	4,444	4,507	4,348	4,518	4,389
Female .....	4,199	4,350	4,080	4,187	4,210
Double births (Resident only) .....	88	84	80	101	82
Triple births (Resident only) .....	—	—	—	3	1
Resident illegitimate births .....	582	603	496	463	474
Total illegitimate births .....	916	869	806	788	770
Born in institutions (Resident) ..	8,642	8,857	8,426	8,702	8,598

## MATERNAL PARENTAGE

Canada .....	7,050	7,063	6,764	6,898	6,645
British Isles .....	295	339	364	365	431
Europe and Asia .....	1,157	1,310	1,170	1,305	1,399
U.S.A. ....	123	123	110	112	105
Other Countries .....	18	22	20	25	19



## RESIDENT LIVE BIRTHS BY AGE OF MOTHER AND ORDER OF BIRTH

1963

	-14	15-19	20-24	25-29	30-34	35-39	40-44	Over 44	Total	%
1st child .....	4	679	1,328	482	152	58	8	1	2,712	31.4
2nd child .....	—	183	987	664	271	94	24	1	2,224	25.7
3rd child .....	—	24	454	624	359	141	29	1	1,632	18.9
4th child .....	—	6	178	329	312	153	31	1	1,013	11.7
5th child .....	—	—	36	153	168	141	21	1	520	6.0
6th child .....	—	—	6	62	91	75	29	—	263	3.0
7th child .....	—	—	2	30	48	40	15	—	135	1.6
8th child .....	—	—	—	11	21	31	12	2	77	.9
9th child .....	—	—	—	2	11	18	4	1	36	.4
10th child and over .....	—	—	—	—	8	16	7	—	31	.4
	4	892	2,991	2,357	1,441	767	180	8	8,643	100

<b>STILLBIRTHS</b>	1963	1962	1961	1960	1959
Total stillbirths .....	142	142	128	142	138
Resident stillbirths only .....	101	91	89	92	84
Male .....	59	45	42	40	50
Female .....	42	48	47	52	34
Born in institutions .....	101	91	89	92	84
<b>Cause of Foetal Deaths</b>					
Dystocia .....	18	5	14	9	27
Prematurity .....	11	9	8	10	6
Toxemia of pregnancy .....	3	5	5	—	2
Syphilis .....	—	—	—	—	—
Malformation .....	9	8	20	8	16
Placenta and membranes .....	28	26	20	17	12
Traumatism, overwork .....	—	—	—	—	—
Other conditions .....	32	38	22	31	21
<b>DEATHS</b>	1963	1962	1961	1960	1959
Total deaths .....	2,665	2,652	2,536	2,552	2,460
Resident deaths only .....	1,938	1,814	1,726	1,737	1,710
Male .....	1,188	1,143	1,101	1,087	1,035
Female .....	750	671	625	650	675
Resident rate per 1,000 population .....	6.38	6.1	6.2	6.5	6.5
<b>Racial Origin</b>					
Canada .....	621	579	558	487	453
British Isles .....	576	575	481	538	523
Europe and Asia .....	598	529	521	489	481
U.S.A. ....	126	105	114	113	96
Others .....	17	26	53	110	157

## PRINCIPAL CAUSES OF DEATH, 1963

	Total	Male	Female	% of Total Deaths	Rate per 100 M. Population
420-434 Diseases of heart .....	602	406	196	31.1	198.1
140-205 Cancer .....	336	195	141	17.3	110.5
330-334 Vascular lesions affecting central nervous system .....	196	95	101	10.2	64.5
800-999 External causes .....	158	111	47	8.1	52.0
750-776 Diseases of early infancy .....	155	92	63	8.1	51.0
490-493 Pneumonia .....	71	49	22	3.7	23.7
440-447 Hypertension .....	32	13	19	1.6	10.5
260 Diabetes mellitus .....	29	9	20	1.5	9.5
540-541 Ulcer of stomach and duodenum .....	21	18	3	1.0	6.9
410-416 Chronic rheumatic heart disease .....	20	7	13	1.0	6.6
All other causes .....	318	192	126	16.4	104.7
Total .....	1,938	1,187	751	100.0%	638.0



**MORTALITY FROM HEART DISEASE**

Year	Total Deaths	Deaths From Heart Disease	Percentage of Total Deaths	Rate per 100M Population
1963	1938	602	31.1	198.1
1962	1814	556	30.6	188.4
1961	1726	557	32.3	201.1
1960	1737	531	30.6	197.1
1959	1710	485	28.3	186.0

**MORTALITY FROM CANCER**

Year	Total Deaths	Deaths From Cancer	Percentage of Total Deaths	Rate per 100M Population
1963	1938	336	17.3	110.5
1962	1814	342	18.8	115.9
1961	1726	306	17.8	111.2
1960	1737	349	20.1	129.5
1959	1710	291	17.0	111.6

**MORTALITY FROM INTRACRANIAL LESIONS OF VASCULAR ORIGIN**

Year	Total Deaths	Deaths From This Cause	Percentage of Total Deaths	Rate per 100M Population
1963	1938	196	10.2	64.5
1962	1814	202	11.1	68.4
1961	1726	177	10.3	64.1
1960	1737	175	10.1	64.9
1959	1710	187	10.9	71.1

**MORTALITY FROM TUBERCULOSIS**

Year	Total Deaths	Deaths From Tuberculosis	Percentage of Total Deaths	Rate per 100M Population
1963	1938	6	.31	2.0
1962	1814	3	.16	1.0
1961	1726	6	.34	2.2
1960	1737	7	.14	3.3
1959	1710	14	.82	5.3

**MORTALITY FROM PNEUMONIA**

Year	Total Deaths	Deaths From Pneumonia	Percentage of Total Deaths	Rate per 100M Population
1963	1938	71	3.7	23.4
1962	1814	66	3.6	22.3
1961	1726	75	4.3	27.1
1960	1737	46	2.6	17.0
1959	1710	65	3.8	24.7

**MORTALITY FROM EXTERNAL CAUSES**

	Total Deaths	Deaths From External Causes	Male	Female	Suicide	Homicide	Automobile Accidents	All Other Accidents	Percentage of Deaths	Rate Per 100M Population
1963	1938	158	111	47	28	10	50	70	8.2	52.0
1962	1814	133	91	42	31	3	40	59	7.3	45.0
1961	1726	124	87	37	25	1	37	61	7.2	44.9
1960	1737	138	102	36	19	4	47	68	10.1	51.2
1959	1710	130	100	30	24	2	45	59	7.6	49.8

## ABRIDGED INTERNATIONAL CLASSIFICATION OF CAUSES OF DEATH, 1963

[illegible]



## INFANT MORTALITY

	1963	1962	1961	1960	1959
Total deaths under 1 year of age .....	289	294	341	326	275
Resident deaths under 1 year of age .....	174	162	201	199	168
Male .....	105	97	124	125	103
Female .....	69	65	77	74	65
Legitimate .....	158	144	194	183	161
Infant mortality rate per 1,000 living births .....	20.1	18.3	23.7	22.8	19.5
<b>RACIAL ORIGIN</b>					
Canada .....	149	140	161	148	124
British Isles .....	3	8	7	15	14
Europe and Asia .....	18	12	30	31	30
U.S.A. ....	4	2	2	4	—
Others .....	—	—	1	1	—

# INFANT MORTALITY, 1963

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### IMMUNIZATION CLINICS — COMMUNICABLE DISEASE CONTROL

During the year 250 immunization clinic sessions were held at each of the five regional offices. The average total daily attendance was 501.

A series of lectures on immunization was given to nurses in training at the Misericordia and General Hospitals. 307 students and graduate nurses attended the clinics for field observation purposes.

The inoculation clinic staff once more took part in the routine immunization runs of the schools.

A mass oral poliomyelitis vaccination drive was held in late January and late March. Regular clinic services were discontinued for the duration of these sessions with the exception of the special facilities provided for travellers in the central clinic.

1,081 visits were made to children and others in their homes in relation to communicable diseases.

	1963	1962	1961	1960	1959
No of persons receiving 1st doses .....	53,069	29,527	23,050	29,564	59,203
No of persons receiving reinforcing doses ....	10,073	7,649	10,961	7,905	8,267
Total procedures .....	125,330	91,794	80,301	116,442	159,610
Total attendance .....	125,086	91,794	80,301	116,443	159,610
Out of town persons attending clinics .....	1,348	1,558	1,350	1,323	2,184

#### Average daily attendance:

	1963	1962	1961	1960	1959
Main Clinic .....	133	111	99	187	291
South Side .....	72	52	46	78	119
Woodcroft .....	128	96	91	114	148
Eastwood .....	87	58	46	63	79
Idylwyld .....	81	50	37	35	(Opened June 1960)

### TOTAL IMMUNIZATION STATISTICS, 1963

	Immunization Clinics	School Health Service
<b>DIPHTHERIA:</b>		
1st doses .....	8,896	—
Re-inforcing doses .....	8,716	17,255
Total doses .....	43,218	17,255
<b>WHOOPING COUGH:</b>		
1st doses .....	8,335	—
Re-inforcing doses .....	6,695	—
Total doses .....	39,463	—
<b>TETANUS:</b>		
1st doses .....	10,057	—
Re-inforcing doses .....	8,390	17,255
Total doses .....	46,072	17,255
<b>TYPHOID:</b>		
1st doses .....	1,567	—
Re-inforcing doses .....	229	—
Total doses .....	4,456	—
<b>SMALLPOX:</b>		
Smallpox vaccinations .....	10,861	17,009
<b>POLIOMYELITIS—SALK:</b>		
1st doses .....	10,677	649
Re-inforcing doses .....	8,930	18,576
Total doses .....	47,827	19,950
<b>POLIOMYELITIS—SABIN:</b>		
1st doses .....	28,885	53,041
Total doses .....	48,773	105,198
<b>CHOLERA:</b>		
1st doses .....	268	—
Total doses .....	519	—
<b>TYPHUS:</b>		
1st doses .....	154	—
Total doses .....	300	—
<b>OTHERS:</b>		
Total doses .....	30	—
<b>SCHICK TESTS:</b>		
Total doses .....	716	—





## COMMUNICABLE DISEASES BY WEEKS, 1963

	Total	Male	Female	1-4	5-8	9-12	13-16	17-20	21-24	25-28	29-32	33-36	37-40	41-44	45-48	49-52	Non-Residents
Diarrhoea of the newborn .....	1	1	—	—	—	—	—	—	—	—	1	—	—	—	—	—	2
Diphtheria .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
Diphtheria carrier .....	2	1	1	—	—	2	—	—	—	—	—	—	—	—	—	—	—
Dysentery .....	7	4	3	1	—	1	—	—	—	3	—	1	1	—	—	—	9
Food poisoning .....	37	18	19	2	1	5	—	1	—	—	9	3	4	1	1	10	11
Infectious Hepatitis .....	140	60	80	11	14	15	13	9	12	9	7	8	10	8	9	15	6
Measles .....	1,248	652	596	53	77	69	69	104	64	45	45	27	29	33	141	492	10
Meningitis B .....	1	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—
Meningitis D .....	9	7	2	1	—	—	1	—	—	—	3	—	3	—	—	1	3
Meningitis - meningococcal .....	1	—	1	—	—	1	—	—	—	—	—	—	1	—	—	—	3
Paratyphoid fever .....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3
Rubella .....	386	184	202	20	27	14	19	42	86	27	10	13	31	15	31	51	2
Scarlet fever and strep throat .....	320	200	120	44	38	40	27	35	12	8	13	2	10	26	32	33	—
Tuberculosis (Pulmonary) active .....	64	38	26	10	6	5	4	3	4	5	4	6	2	2	9	4	—
Tuberculosis (Pulmonary) inactive .....	70	35	35	3	8	10	1	4	3	5	7	7	5	12	2	3	—
Tuberculosis (Other forms) active .....	20	7	13	—	—	2	1	2	2	2	4	1	2	1	2	2	—
Tuberculosis (Other forms) inactive .....	2	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Typhoid fever .....	1	—	1	—	—	1	—	—	—	—	—	—	—	—	—	—	—
Typhoid fever carrier .....	1	—	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—
Whooping cough .....	102	44	58	23	8	12	3	7	8	3	13	2	7	4	5	7	8
<b>VENEREAL DISEASES:</b>																	
Gonorrhoea .....	2,645	1,649	996	195	211	206	204	222	200	186	215	177	201	235	220	173	—
Non-specific urethritis .....	519	47	472	29	25	35	36	48	49	42	40	40	50	50	30	45	—
Syphilis .....	71	48	23	6	12	3	4	3	3	6	8	3	5	7	5	6	—
<b>TOTAL</b> .....	5,648	2,998	2,650	398	427	421	383	480	443	342	379	290	361	395	487	842	58
<b>DEATHS:</b>																	
Diphtheria .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
Meningococcal infection .....	1	—	1	—	—	—	—	1	—	—	—	—	—	—	—	—	—
Measles .....	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Syphilis .....	4	3	1	—	1	1	—	—	—	—	—	1	1	—	—	—	—
Tuberculosis (Pulmonary) .....	5	2	3	1	—	—	—	—	—	—	1	1	1	—	1	—	8
Tuberculosis (Others) .....	1	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	1
Whooping cough .....	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—
<b>TOTAL</b> .....	13	7	6	1	2	1	—	2	—	1	1	2	2	—	1	—	10

## COMMUNICABLE DISEASES BY AGE, 1963

	Total	Male	Female	Under 1	1-4	5-9	10-14	15-19	20-39	40-59	60 & Over	Not Stated	Non Resident
Diarrhoea of the newborn	1	1	—	1	—	—	—	—	—	—	—	—	2
Diphtheria	—	—	—	—	—	—	—	—	—	—	—	—	1
Diphtheria carrier	2	1	1	—	—	2	—	—	—	—	—	—	—
Dysentery	7	4	3	—	4	1	—	—	2	—	—	—	9
Food poisoning	37	18	19	5	6	4	3	5	6	2	6	1	11
Infectious hepatitis	140	60	80	2	4	32	22	14	59	6	1	—	6
Measles	1,248	652	596	37	454	710	34	7	5	1	—	—	10
Meningitis B	1	1	—	—	—	—	—	—	1	—	—	—	—
Meningitis D	9	7	2	1	—	2	—	—	6	—	—	—	3
Meningitis - Meningococcal	1	—	1	—	1	—	—	—	—	—	—	—	3
Paratyphoid fever	1	1	—	—	—	—	—	—	1	—	—	—	3
Rubella	386	184	202	20	88	178	86	5	5	1	—	3	—
Scarlet fever and strep throat	320	200	120	6	58	81	17	85	68	4	1	—	2
Tuberculosis (Pulmonary) active	64	38	26	—	11	1	—	3	19	17	13	—	—
Tuberculosis (Pulmonary) inactive	70	35	35	—	—	—	—	—	24	24	17	5	—
Tuberculosis (Other forms) active	20	7	13	—	2	—	1	2	10	4	1	—	—
Tuberculosis (Other forms) inactive	2	1	1	—	—	—	—	—	—	1	—	1	—
Typhoid fever	1	—	—	—	—	—	—	1	—	—	—	—	—
Typhoid fever carrier	1	—	1	—	—	—	—	—	—	1	—	—	—
Whooping cough	102	44	58	9	40	40	9	2	1	1	—	—	8
<b>VENEREAL DISEASES</b>													
Gonorrhoea	2,645	1,649	996	1	4	—	8	391	2,217	—	—	24	—
Non-specific urethritis	519	47	472	—	—	—	1	114	386	—	—	18	—
Syphilis	71	48	23	—	—	—	—	3	68	—	—	—	—
<b>TOTAL</b>	<b>5,648</b>	<b>2,998</b>	<b>2,650</b>	<b>82</b>	<b>672</b>	<b>1,051</b>	<b>181</b>	<b>632</b>	<b>2,878</b>	<b>62</b>	<b>39</b>	<b>51</b>	<b>58</b>
<b>DEATHS:</b>													
Diphtheria	—	—	—	—	—	1	—	—	—	—	—	—	1
Meningococcal infection	1	—	1	—	—	—	—	—	—	—	—	—	—
Measles	1	1	—	—	—	—	—	1	—	—	—	—	—
Syphilis	4	3	1	—	—	—	—	—	—	—	4	—	—
Tuberculosis (Pulmonary)	5	2	3	—	—	—	—	—	2	2	1	—	8
Tuberculosis (Other)	1	1	—	—	—	—	—	—	—	—	1	—	1
Whooping cough	1	—	1	1	—	—	—	—	—	—	—	—	—
<b>TOTAL</b>	<b>13</b>	<b>7</b>	<b>6</b>	<b>1</b>	<b>—</b>	<b>1</b>	<b>—</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>6</b>	<b>—</b>	<b>10</b>



### TUBERCULOSIS CONTROL

Tuberculosis control continued to receive active support from the Kinsmen Club of Edmonton. Excellent co-operation has been extended by the Tuberculosis Division of the Provincial Health Department and by the Alberta Tuberculosis Association.

A revolving card index tuberculosis register is being prepared which will direct continuing field control. More time and effort has been directed to tuberculosis during the year than in any previous year. There remains in the community, indeed the country, a hard core of tuberculosis which will require even greater efforts than those already directed to the problem before complete control and elimination can be achieved.

Tuberculosis testing in the schools is carried out in Grades I, V, and X (changed to grade IX after the summer recess) and on all school personnel using the A & H Multiple Puncture Apparatus, Mark IV. Family contacts of positive reactors were also tested. All positive reactors were referred to the Tuberculosis Division for further investigation.

Chest surveys through the miniature x-rays continue both from mobile units and the units stationed in the City Hall and Unemployment Insurance Building. Efforts are being made to encourage all employers to require pre-employment chest x-rays of all personnel.

Survey of food handlers employing the Heaf gun was initiated. Co-operation was good but it is a slow and difficult operation in view of shift work. Consideration is being given to making an annual chest x-ray of food handlers a necessity for licensing.

CASES:	1963	1962	1961	1960	1959
*Pulmonary Tuberculosis .....	134	125	120	108	139
**All other forms of Tuberculosis .....	22	19	26	13	30

RATES PER 100,000 POPULATION:					
Pulmonary Tuberculosis .....	44.1	42.3	43.3	40.1	53.3
All other forms of Tuberculosis .....	7.2	6.4	9.4	4.0	11.5

DEATHS:					
Pulmonary Tuberculosis .....	5	2	5	6	12
All other forms of Tuberculosis .....	1	1	1	1	2

\*1963 total includes 70 inactive cases.

\*\*1963 total includes 2 inactive cases.

#### VISITING SERVICES:

Total visits by nurses .....	3,957
Visits to homes .....	1,196
Visits to tuberculosis cases .....	400
Visits to contact cases .....	2,257
Tuberculin tests in homes .....	1,593
Observation .....	44

#### SURVEYS — A & H MULTIPLE PUNCTURE APPARATUS

	Tested	Positive
Food Handlers .....	566	206
Institutions .....	110	26
Students—University of Alberta .....	2,010	—
Schools—Grade I .....	6,014	55
Grade V .....	5,415	127
Grade IX .....	3,705	224
Grade X .....	1,043	60
Pre-employment class .....	109	7
School Personnel .....	1,073	347

CHEST SURVEYS:	1963	1962	1961	1960	1959
City Hall .....	7,022	8,462	6,984	9,898	9,934
Industrial Surveys .....	10,022	279	16,734	10,956	10,123
Unemployment Insurance Building .....	2,474	2,881	2,171	—	—
High Schools .....	5,765	—	—	—	—
CHEST SURVEY TOTALS .....	25,283	11,622	25,889	25,629	20,057



## WELL BABY AND PRE-SCHOOL SERVICE

The five regional clinics were closed to routine operations during the Sabin vaccine campaign and the staff of the division turned over to Sabin immunization.

A pilot program was initiated at the Royal Alexandra Hospital Maternity wing to discuss with new mothers the care of new babies and to give information on the services available to mothers in the city. The programme has been well received.

The Phenylketonuria survey continued. All newborn infants in attendance were tested. One case of Phenylketonuria was so identified.

Physicians were in charge of the Central Regional Clinic two afternoons a week and one afternoon a week in the remaining four clinics.

154 nurseries, play schools, kindergartens, foster homes and child institutions were registered. Four hundred visits were made to these agencies.

	1963	1962	1961	1960	1959
Total Attendance .....	37,261	39,203	39,201	37,783	36,458
Under 1 Year .....	22,464	24,088	24,396	23,582	23,314
Out of town .....	14,797	15,145	14,805	14,201	13,144
Average daily attendance					
Main Clinic .....	25	25	27	32	37
South Side Clinic .....	26	25	25	29	37
Woodcroft Clinic .....	39	38	42	41	43
Eastwood Clinic .....	39	38	34	33	29
Idylwyld Clinic .....	33	31	29	24	(Opened June 1, 1960)
Total average monthly attendance .....	3,105	3,269	3,267	3,149	3,038
Total new admissions .....	7,164	7,982	7,657	7,823	7,548
Total re-admissions .....	466	486	445	358	386
Under 1 year .....	5,852	6,173	5,889	6,052	5,774
1 to 6 years .....	1,778	1,819	1,719	1,772	1,774
Discharged .....	7,099	6,702	6,959	6,512	5,826
Total remaining on roll .....	23,304	23,773	21,493	20,795	19,282
Home visits .....	5,056	4,529	4,907	4,633	4,140
Phenylketonuria tests .....	8,801	9,026	7,738	7,852	—
Number seen by doctor .....	590	715	681	678	654
Referred to family doctor .....	743	773	739	690	631
No. of student days .....	403	420	373	326	364
Post-partum classes .....	24	—	—	—	—

95 clinics for four-year-olds were held for selected four-year-old children. Each child was submitted to routine medical and dental examinations and the mothers counselled accordingly. The interest shown by families in this programme has been most encouraging.

## General Statistics

Parents invited .....	1,187
Parents present .....	1,023
Number of examinations .....	1,038
Children with defects .....	560
Referrals to physicians .....	73



### SCHOOL HEALTH SERVICES, 1963

At the beginning of the 1963-64 academic year 70,277 students attended 153 city schools, and public health services were provided by 50 district nurses of the Health Department.

Periodic examinations by the medical officers covered grades I, V, and X (grade V being omitted in selected schools) and all entrants to the school system. In September, the final examination was moved from grade X to grade IX. Administratively this worked out well and it ensured a final check-up for those students who leave school after completing grade IX.

Audiometric screening of all grade IV students continued. Of those surveyed, 484 or 6.8% required individual testing and, for about a third of this group, audiograms were made and the parents interviewed, if possible.

Ophthalmic examinations and spectacles, where necessary, were provided for 139 children of indigent parents, and a further 27 were assisted with spectacle repairs.

The first general administration of oral poliomyelitis vaccine took place at the beginning of the year and 53,041 first doses and 52,157 second doses were given in the schools. The balance of the immunization programme was maintained at the normal level. Reinforcing doses of triad (diphtheria, tetanus, and poliomyelitis combined) were given in grades I, V and IX, and smallpox vaccination was offered in grades II and VIII. Primary immunization courses against diphtheria and tetanus and against poliomyelitis were arranged for the small group starting school without this protection.

The incidence of measles rose sharply at the end of the year. The one case of typhoid recorded was not serious and led to the early detection of a carrier in the patient's family. The school population remained free of diphtheria (for the fifth successive year) and it is encouraging to note that the last case of paralytic poliomyelitis occurred in 1960.

Five new cases of tuberculosis in school children were notified.

Continued interest was shown by teachers in the educational programme on cigarette smoking and lung cancer, and the district nurses again distributed the film-strip kit, "To Smoke or Not to Smoke" along with suitable pamphlets and resource material to all the junior high schools in the city. An instructional display on the same theme was circulated through every senior high school.

In early November the director of nursing and the five district charge nurses commenced the study of various aspects of mental illness by means of a series of weekly study groups which constitute part of the training schedule of the Royal Alexandra Hospital's psychiatric unit.

#### EXAMINATIONS BY MEDICAL OFFICERS:

Complete periodic examinations .....	15,525
Examinations on special referral .....	555
Re-examination .....	331
Total number of examinations .....	16,411
Number of pupils with defects .....	6,321
Parents invited to examinations .....	9,354
Parents present at examinations .....	5,235
Pupils referred to physicians .....	495
Pupils referred to dentists .....	568

#### EXAMINATIONS BY NURSES:

Periodic examinations .....	37,665
Examinations on special referral .....	25,465
Re-examinations .....	7,271
Partial examinations .....	126,335
Total number of examinations .....	196,736
Number of pupils with defects .....	33,950
Pupils referred to physicians .....	3,852
Pupils referred to dentists .....	1,911

**AUDIOMETRIC SURVEY:**

Number group-tested .....	7,109
Failures .....	948
Number tested individually .....	484
Referred for audiograms .....	161

**SCHOOL NURSING SERVICES:**

Home visits .....	4,272
Consultations with physicians .....	464
Consultations with teachers .....	10,842
Consultations with parents .....	10,347
Consultations with others .....	3,101
Pupils given first-aid .....	10,107
Lectures and talks .....	285
Field work sessions with students .....	238



### REGISTER OF PHYSICALLY HANDICAPPED CHILDREN

This register, at the end of 1963, contained 2,013 cards pertaining to children living in Edmonton. Those with records classified as active were being reviewed at appropriate intervals, while it was felt that the inactive group required no further follow-up.

Close liaison has been established with the new Registry for Handicapped Children and Adults set up by the Provincial Department of Health.

The tables below give a breakdown by numbers and percentages of the cases on record.

DISABILITY	PRE-SCHOOL			SCHOOL		
	Active	Inactive	Total	Active	Inactive	Total
<b>ORTHOPEDIC:</b>						
Congenital .....	47	43	90	16	31	47
Muscular Dystrophy .....	—	—	—	10	3	13
Osteochondroses .....	—	1	1	8	17	25
Rheumatoid Arthritis .....	3	—	3	9	3	12
Post Traumatic .....	1	—	1	3	3	6
Miscellaneous .....	4	11	15	14	12	26
			110			129
<b>INFECTIVE AND PARASITIC:</b>						
Poliomyelitis .....	2	—	2	25	36	61
Tuberculosis—Respiratory .....	—	1	1	9	32	41
—Bone and Joint .....	—	—	—	—	5	5
—Other .....	—	—	—	7	7	14
Other .....	—	—	—	—	2	2
			3			123
<b>NEOPLASTIC:</b>						
Benign—Haemangioma .....	1	2	3	2	1	3
—Other .....	2	2	4	2	5	7
Malignant—Central Nervous System .....	2	—	2	4	—	4
—Leukaemia .....	2	—	2	1	—	1
—Other .....	3	1	4	7	2	9
			15			24
<b>ALLERGIC, ENDOCRINAL, METABOLIC AND NUTRITIONAL</b>						
Asthma .....	2	1	3	29	47	76
Diabetes .....	3	—	3	30	8	38
Other—Allergic .....	1	3	4	13	11	24
—Endocrinal .....	—	2	2	6	7	13
Metabolic & Nutritional .....	8	1	9	9	4	13
			21			164
<b>DISEASES OF BLOOD AND BLOOD PRIMARY ORGANS</b>						
Haemophilia .....	—	—	—	7	—	7
Purpura .....	—	—	—	2	2	4
Miscellaneous .....	—	1	1	3	4	7
			1			18
<b>MENTAL, PSYCHONEUROTIC AND PERSONALITY DISORDERS</b>						
PERSONALITY DISORDERS .....	8	23	31	40	24	64

DISABILITY	PRE-SCHOOL			SCHOOL		
	Active	Inactive	Total	Active	Inactive	Total
<b>DISEASES OF THE NERVOUS SYSTEM:</b>						
Cerebral palsy .....	16	5	21	44	39	83
Epilepsy .....	10	1	11	93	67	160
Hydrocephalus .....	4	2	6	4	3	7
Spina bifida and meningocele .....	3	—	3	—	5	5
Other .....	9	3	12	21	19	40
			53			295
<b>DISEASES INVOLVING LOSS OF SPECIAL SENSES:</b>						
Eyes—Cataract .....	6	5	11	7	8	15
—Glaucoma .....	—	—	—	2	4	6
—Strabismus .....	13	2	15	35	37	72
—Other .....	5	5	10	26	36	62
Ears—Impaired hearing .....	3	—	3	59	37	96
—Other .....	2	3	5	3	3	6
			44			257
<b>DISEASES OF CIRCULATORY SYSTEM:</b>						
Congenital .....	24	8	32	48	27	75
Rheumatic fever .....	3	—	3	108	140	248
Other .....	23	4	27	8	7	15
			62			338
<b>DISEASES OF RESPIRATORY SYSTEM</b> .....	3	1	4	7	3	10
<b>DISEASES OF DIGESTIVE SYSTEM</b>						
Coeliac disease .....	10	12	22	3	6	9
Hare Lip and/or cleft palate .....	10	7	17	4	7	11
Hirschsprung's disease .....	—	1	1	1	4	5
Megacolon .....	1	—	1	—	—	—
Other .....	2	10	12	2	7	9
			53			34
<b>DISEASES OF THE GENITO-URINARY SYSTEM</b> .....	11	2	13	24	10	34
<b>CONGENITAL MALFORMATIONS</b> .....	15	2	17	17	34	51
<b>BIRTH INJURIES</b> .....	—	2	2	—	—	—
<b>SPEECH DEFECTS</b> .....	—	1	1	25	7	32
<b>OTHER</b> .....	—	—	—	6	5	11

GROUP	PERCENT OF TOTAL	
Orthopedic .....	25.6	8.1
Infective and parasitic .....	.7	7.8
Neoplastic .....	3.5	1.5
Allergic, endocrinal, metabolic and nutritional .....	4.9	10.4
Diseases of blood and blood primary organs .....	.2	1.1
Mental, psychoneurotic and personality disorders .....	7.2	4.0
Diseases of the nervous system .....	12.3	18.6
Diseases involving loss of special senses .....	10.2	16.2
Diseases of circulatory system .....	14.4	21.3
Diseases of respiratory system .....	.9	.6
Diseases of digestive system .....	12.3	2.1
Diseases of genito-urinary system .....	3.0	2.1
Congenital malformation .....	4.0	3.2
Birth injuries .....	.5	—
Speech defects .....	.2	2.0
Other .....	—	.7



## DENTAL DIVISION

### 1. School Dental Examinations

The school dental teams completed the dental examinations for school children grades 1, 2, 3, 4, 6 and 8 only and examined 33,703 school children in 131 schools out of a total school population of 70,277 in 153 schools. There were 19,538 (58.0%) children with dental decay and 9,840 (29.5%) with no dental defects.

Number of schools completed .....	131	
Number of children examined .....	33,703	
Number with dental decay .....	19,538	(58.0%)
Number requiring prophylaxis .....	1,881	( 5.6%)
Number requiring space maintainers .....	5,624	(16.7%)
Number requiring orthodontic treatment .....	2,205	( 6.5%)
Number of children with no dental defects .....	9,840	(29.5%)

### 2. Dental Clinical Treatment Service

This service is extended to the school children of the marginal and part-time wage earning groups. For this group even a modest medical or dental expense presents a financial hardship. Application for this service is made annually. There is no direct cost to parents or guardians of needy children who receive dental treatment at the City Dental Clinics.

#### Dental Treatment Service Summary

	Cent.	W.E.	S.S.	E.E.	IDY.	Total
Number of appointments made .....	443	370	464	650	445	2,372
Number of appointments missed .....	28	50	47	65	64	254
Number of silver amalgams .....	673	583	856	1,116	550	3,699
Number of anodyne bases .....	255	211	361	477	274	1,578
Number of silicate fillings .....	186	93	215	251	131	876
Number of extractions .....	264	214	296	445	232	1,451
Number of other cases .....	5	10	19	7	7	48
Number of emergency cases .....	21	8	17	18	15	79
Number of cases completed .....	121	113	181	226	143	784
Number of prophylaxis .....	—	1	1	5	—	7
Number of x-rays taken .....	—	—	26	4	—	30
Number of children on waiting list .....	15	23	—	14	—	52

### 3. Pre-School Dental Program

In conjunction with the Well Baby Clinic Services, four-year-old children are called to the regional dental clinics by appointment and the following dental services are rendered by the dental auxiliaries.

- (a) Dental examination for each child.
- (b) Consultation and counselling the parent or guardian regarding the dental hygiene and dental care for the child.
- (c) Prophylaxis and stannous fluoride topical application.
- (d) Referral to a dentist in case of children who have not been seen by a family dentist.

This service was extended to the Woodcroft region in 1963 and is presently in operation in all five regional dental clinics.

**Pre-School Dental Service Summary**

	Cent.	W.E.	S.S.	E.E.	IDY.	Total
Number of appointments made for dental examination .....	273	81	263	285	274	1,176
Number of children who received a dental examination .....	230	68	245	236	240	1,019
Number of parent interviews with the child .....	229	68	245	135	240	1,017
Number of children under care of a family dentist .....	207	66	226	216	225	940
Number of children referred to a dentist .....	19	2	16	20	15	72
Number of appointments made for stannous fluoride and prophylaxis ....	135	59	166	166	164	690
Number of appointments missed or referred for stannous fluoride or prophylaxis .....	30	9	23	40	30	132
Number of children who received stannous fluoride and prophylaxis .....	105	50	143	126	134	558
Number of children on waiting list .....	9	16	7	15	6	53

**4. Tot-Lot "Dental Health Day" Project**

During the months of July and August, in co-operation with the Parks and Recreation Department, the Dental Division instituted a Dental Health Day on each of the thirty Tot-Lot Recreation grounds. There were approximately 1,500 children in attendance, ages 6 to 12 years. Children, by consent, received a cursory dental examination, a demonstration on "How To Brush Your Teeth" and were given a brief talk on oral and dental health. In many instances parents were present with the children.

**Tot-Lot Dental Survey**

Number in attendance .....	1,500	
Number who received dental examination .....	415	
Number with dental decay present .....	210	(50.6%)
Number requiring prophylaxis (cleaning) .....	37	( 9.6%)
Number requiring space maintainer .....	72	(17.0%)
Number requiring orthodontic treatment .....	23	( 5.5%)
Number with no dental defects .....	152	(36.6%)



## HOSPITALS AND INSTITUTIONS

Beds available for the acute and chronically ill and for the care of the aged:

	No. of Beds
<b>HOMES FOR THE AGED</b> .....	340
<b>NURSING HOMES</b> .....	608
	<hr/> 948
<b>AUXILIARY HOSPITALS:</b>	
Allan Gray .....	50
Good Samaritan .....	174
Norwood .....	75
St. Joseph's Hospital .....	198
	<hr/> 497
<b>ACTIVE TREATMENT HOSPITALS:</b>	
General Hospital .....	371
Misericordia Hospital .....	326
Royal Alexandra Hospital .....	788
University of Alberta Hospital .....	1,007
Charles Cammell Hospital .....	500
Aberhart Memorial Sanatorium .....	295
	<hr/> 3,287

## VICTORIAN ORDER OF NURSES

An active branch of the Victorian Order of Nurses is maintained in Edmonton employing eleven nurses and supporting clerical staff.

The Victorian Order in Edmonton carry the traditional programme of preventive medicine and bedside nursing care. The hospital referral programme which was initiated at the Royal Alexandra Hospital in 1962 is worthy of special mention and credit. Not only is this of value in freeing active treatment beds in hospital, but there is real value to be obtained in the continuance of treatment in the home by skilled nurses under the supervision of the physician in charge. In 1963 this programme was extended to the Misericordia Hospital, and there is expectation that similar programmes will be operating from other active treatment hospitals.

It is of interest to note that of the total of 22,535 visits made, 15,245 (68%) were for the purpose of giving care and treatment. Of these, 51% were to patients over the age of 70 years. Such figures support the oft cited need for increase in the provision of home help for lone and aged persons. Such assistance would permit an increasing number of those people to continue living in the community a life as close to their norm as possible, rather than placing the total load on institutions. Edmonton is a young city and as yet has not accumulated a heavy load of elderly people as have the older communities. The increasing load of aged people with passage of the years will, in parallel, increase the acuity of the problem.

	1963	1962	1961	1960	1959
Prenatal care visits .....	2	7	4	3	—
Prenatal instructions - visits .....	15	102	125	1	3
Postnatal care .....	10	27	8	14	10
Postnatal instructions .....	2,252	2,025	2,250	2,169	2,130
Newborn care .....	200	116	149	118	69
Newborn instructions .....	4,544	3,651	2,151	2,191	2,116
Medical and Surgical, etc. ....	15,036	13,123	14,254	14,814	14,902
Total visits .....	22,535	19,051	18,937	19,310	19,230
Prenatal clinics held .....	95	85	78	48	47
Enrolment .....	186	161	268	177	397
Total attendance .....	1,178	1,061	837	1,177	1,406
Average attendance .....	12	12	11	25	30

## ENVIRONMENTAL HYGIENE

The demands upon this division continue to multiply. It becomes apparent that in the interests of efficiency consideration must be given to a certain degree of specialization and consequent staff increases. Particular reference is made to substandard accommodation and housing. By and large, the lack of alternative accommodation at minimal rental has created some reluctance to condemnation. The proposed urban renewal study offers some hope of solution to this problem.

Generally, standards of hygiene have remained satisfactory.

INSPECTIONS:	1963	1962
Bakeries .....	289	264
Barber shops and beauty parlors .....	268	228
Dwellings .....	148	11
Hotels, lodging houses and apartments .....	457	351
Schools, kindergartens, homes for the aged .....	152	131
Stores, butcher shops, etc. ....	1,610	1,438
Restaurants .....	2,572	3,111
Streets, lanes, dumps, etc. ....	246	6

Miscellaneous (includes public places, recreation, motels, service stations, laundries and beverage rooms) .....	1,665	525
Public Health Education lectures .....	49	33
	<u>7,715</u>	<u>6,098</u>

## NOTICES:

Written .....	793	91
Verbal .....	1,100	2,934

## COMPLAINTS:

Received from public .....	341	407
Justified .....	269	377
Received from other departments .....	6	6
Referred to other departments .....	3	9
The complaints were made up as follows:		
Garbage, streets and lanes .....	42	57
Vermin .....	31	38
Housing, plumbing and drainage .....	41	98
Food and drink .....	69	76
Animals .....	57	75
Odors, smoke, air pollution .....	25	18
Miscellaneous .....	69	45

## LICENSES:

License applications investigated .....	5,367	4,275
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## PLUMBING:

Sewer and water notices issued .....	2	—
Extensions of time granted .....	1	—
Plumbing permits issued .....	3,502	3,873
Plumbing permits issued for old buildings .....	21	14
Alterations to existing plumbing (fixtures) .....	2,663	2,181
Privies eliminated through installation of plumbing .....	21	14
Number of septic tanks installed .....	8	3

## ANIMALS, BARNS, STYS:

Cow owners .....	3	3
Hog owners .....	2	4
Goat owners .....	—	—



**FOOD:**

Samples submitted to Provincial Laboratory .....	27	10
Foodstuffs condemned lbs. — damaged by fire, flood, etc. ....	209	59,520
Foodstuffs condemned lbs. — other reasons .....	35	54

**WELL WATER:**

Water samples taken .....	4	10
Negative .....	4	10
Positive .....	—	—
Wells chlorinated .....	—	1

**OTHER:**

Prosecutions .....	—	1
Number of student days .....	28	17
Poison gas fumigation .....	7	—

**Atmospheric Pollution:**

The Provincial Health Department Sanitary Engineering Branch operating directly and indirectly through the Local Board of Health stations have undertaken the supervision and control of air pollution.

Various sampling devices are maintained at selected sites throughout the city. Thusly a constant check is maintained on the concentration of pollutants in the atmosphere. Observation of sources of contamination is maintained and where releases are excessive, corrective action is being requested.

Meanwhile, legislation requires that by 1966 all releases shall conform to the standards set by the Provincial Health Department.

**1. Dustfall:**

In 1963 an increase was noted in the dustfall at all seven stations over the 1962 averages.

**2. Hydrogen Sulphide Concentrate:**

The concentrate recorded was roughly similar to that of the previous year and was so low that it was considered of little significance.

**3. Sulphur Dioxide Concentrate:**

A small peak of concentration was registered in September of 1963. However, the monthly averages were essentially similar to those of 1962 and were not deemed significant.

**4. Smoke Density:**

The recorded high was in winter. Density reached a low in spring time. The annual average of .37 C.O.H.'s/1,000 lin. feet indicates an overall satisfactory experience.

**5. Oxides of Nitrogen:**

Exhaust gases from internal combustion engines and the city power plant are the major contributors of these contaminants. The average volume in Edmonton was .050 p.p.m. This is a low concentration.

**6. Oxidant:**

No measurable amount of oxidant was demonstrated in 1963.

The oxides of nitrogen and oxidant never reached an adverse level in 1963. Sulphur dioxide and hydrogen sulphide levels were almost insignificant. Problems of dust and smoke were evident only in a few isolated cases.

## FOOD INSPECTION

## MEATS INSPECTED AND CONDEMNED

		Carcasses Condemned	Portions Condemned	Weight (lbs.)
<b>BEEF:</b>				
Abscess .....		—	299	2,990
Septicemia .....		2	—	900
Actinomycosis .....		—	59	1,180
Moribund .....		2	—	900
Others .....		4	3	1,400
Total inspected, 1963 .....	3,205	8	361	7,420
Total inspected, 1962 .....	4,889	19	554	15,080
Total inspected, 1961 .....	5,738	13	559	11,785
<b>YEAL:</b>				
Septicemia .....		1	—	158
Total inspected, 1963 .....	69	1	—	158
Total inspected, 1962 .....	213	—	11	60
Total inspected, 1961 .....	647	6	8	40
<b>MUTTON:</b>				
Parasites .....		—	6	30
Total inspected, 1963 .....	50	—	6	30
Total inspected, 1962 .....	64	—	6	30
Total inspected, 1961 .....	79	—	—	—
<b>PORK:</b>				
Tuberculosis .....		—	384	3,895
Parasites .....		—	593	2,965
Moribund .....		1	—	175
Septicemia .....		2	—	360
Others .....		4	1	545
Total inspected, 1963 .....	7,161	7	978	7,940
Total inspected, 1962 .....	12,466	3	1,717	13,450
Total inspected, 1961 .....	19,076	2	1,994	17,140

## DISEASED ANIMALS

	1963	1962	1961
Beef .....	308	545	550
Veal .....	1	11	8
Mutton .....	6	6	—
Pork .....	858	1,422	1,931
Total amount of meat condemned (lbs.) .....	15,548	28,620	28,965

## CARCASSES FOUND TO BE INFECTED WITH T.B.

<b>BEEF:</b>			
Infected .....	—	—	1
Percent .....	—	—	.02
<b>PORK:</b>			
Infected .....	384	810	1,177
Percent .....	5.36	6.49	6.17



## MILK AND WATER REPORT

	1963		1962	
	Total No. Premises	No. of Inspections	Total No. Premises	No. of Inspections
<b>INSPECTIONS:</b>				
Producer-shippers, milk .....	457	1,185	461	1,231
Producer-shippers, cream .....	43	74	50	117
Producer-contacts .....		143		132
Pasteurization plants-contacts .....		192		202
Pasteurization plants .....	6	201	6	239
Vehicles .....		522		558
Others, complaints, etc. ....		18		12
<b>LICENSES AND PERMITS:</b>				
Retail milk certificates issued .....		720		726
Dairy licenses issued .....		500		511
Dairy licenses refused .....		—		—
Dairy licenses suspended temporarily .....		—		—
Permits issued to cow keepers in the city ....		3		5
<b>SAMPLES:</b>				
Milk samples taken, retail .....		502		757
Milk samples taken, shippers .....		4,807		7,459
Cream samples taken .....		194		225
Chocolate milk samples .....		6		34
Ice cream samples .....		—		—
<b>TESTS—MILK:</b>				
Standard plate count tests .....		702		1,000
Coliform tests .....		702		1,000
Phosphatase tests .....		693		863
Methylene blue tests .....		4,671		4,735
Butterfat tests .....		701		999
<b>RESTAURANTS:</b>				
Swab tests of utensils .....		—		91
<b>WATER:</b>				
Standard plate count tests .....		2,092		1,374
Coliform tests .....		2,092		1,374
Chlorine content checks .....		983		684
Raw river water plate count tests .....		92		106
<b>SWIMMING POOLS:</b>				
Plate count tests .....		1,061		922
Coliform tests .....		1,061		922
Inspections .....		225		310
Student days .....		6		—

## EXPENDITURES, 1963

Salaries .....	\$502,440
Furniture and office machines .....	4,580
Milk and glasses .....	1,983
Medical supplies .....	5,890
Printing, postage and stationery .....	7,732
Transportation and cars .....	16,011
Telephones, advertising and travel .....	3,422
Uniforms .....	1,092
Miscellaneous .....	2,836
Insurance and pensions .....	31,858
Space and maintenance .....	55,299
	<u>\$633,143</u>

Cost per Capital — \$2.08

## CLASSIFICATION OF EXPENDITURES, 1963

	Adminis- tration	Communi- cable Disease Control	Milk and Dairy Supervision	Food and Meat Control	Well Baby Clinics	Sanitation	Vital Statistics	School Health Services	Dental Division	Bathhouse Attendant	Total Expenditure
Salaries .....	\$24,661	\$55,914	\$13,938	\$10,191	\$57,705	\$55,308	\$1,244	\$247,152	\$36,088	\$239	\$502,440
Furniture and office machines .....	537	476	24	—	167	73	—	2,833	470	—	4,580
Milk and glasses .....	—	—	—	—	—	—	—	1,983	—	—	1,983
Medical supplies .....	54	2,535	39	—	201	4	—	2,105	952	—	5,890
Printing, postage and stationery .....	1,529	1,016	9	26	602	242	65	3,363	880	—	7,732
Transportation and cars .....	490	—	1,817	420	1,468	3,593	—	7,383	840	—	16,011
Telephones, advertising and travel .....	678	718	107	—	592	242	—	677	408	—	3,422
Uniforms .....	—	367	—	—	222	165	—	388	—	—	1,092
Miscellaneous .....	170	588	21	55	577	360	—	133	932	—	2,836
Insurance and pensions .....	14,237	1,074	—	—	—	—	—	14,217	2,330	—	31,858
Space and maintenance .....	4,567	15,940	—	—	15,906	—	—	9,095	9,791	—	55,299
TOTALS .....	\$46,923	\$78,628	\$15,955	\$10,692	\$77,440	\$59,987	\$1,309	\$289,279	\$52,691	\$239	\$633,143
	7.41%	12.42%	2.52%	1.69%	12.23%	9.47%	.21%	45.69%	8.32%	.04%	100%



DATE	DESCRIPTION	AMOUNT	CHECK NO.	DEBIT	CREDIT	BALANCE
1900	Jan 1					100.00
1901	Jan 1					100.00
1902	Jan 1					100.00
1903	Jan 1					100.00
1904	Jan 1					100.00
1905	Jan 1					100.00
1906	Jan 1					100.00
1907	Jan 1					100.00
1908	Jan 1					100.00
1909	Jan 1					100.00
1910	Jan 1					100.00
1911	Jan 1					100.00
1912	Jan 1					100.00
1913	Jan 1					100.00
1914	Jan 1					100.00
1915	Jan 1					100.00
1916	Jan 1					100.00
1917	Jan 1					100.00
1918	Jan 1					100.00
1919	Jan 1					100.00
1920	Jan 1					100.00
1921	Jan 1					100.00
1922	Jan 1					100.00
1923	Jan 1					100.00
1924	Jan 1					100.00
1925	Jan 1					100.00
1926	Jan 1					100.00
1927	Jan 1					100.00
1928	Jan 1					100.00
1929	Jan 1					100.00
1930	Jan 1					100.00
1931	Jan 1					100.00
1932	Jan 1					100.00
1933	Jan 1					100.00
1934	Jan 1					100.00
1935	Jan 1					100.00
1936	Jan 1					100.00
1937	Jan 1					100.00
1938	Jan 1					100.00
1939	Jan 1					100.00
1940	Jan 1					100.00
1941	Jan 1					100.00
1942	Jan 1					100.00
1943	Jan 1					100.00
1944	Jan 1					100.00
1945	Jan 1					100.00
1946	Jan 1					100.00
1947	Jan 1					100.00
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1988	Jan 1					100.00
1989	Jan 1					100.00
1990	Jan 1					100.00
1991	Jan 1					100.00
1992	Jan 1					100.00
1993	Jan 1					100.00
1994	Jan 1					100.00
1995	Jan 1					100.00
1996	Jan 1					100.00
1997	Jan 1					100.00
1998	Jan 1					100.00
1999	Jan 1					100.00
2000	Jan 1					100.00

CONSTRUCTION OF REMEMBRANCE 1840

DATE	DESCRIPTION	AMOUNT	CHECK NO.	DEBIT	CREDIT	BALANCE
1840	Jan 1					100.00
1841	Jan 1					100.00
1842	Jan 1					100.00
1843	Jan 1					100.00
1844	Jan 1					100.00
1845	Jan 1					100.00
1846	Jan 1					100.00
1847	Jan 1					100.00
1848	Jan 1					100.00
1849	Jan 1					100.00
1850	Jan 1					100.00
1851	Jan 1					100.00
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1873	Jan 1					100.00
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1886	Jan 1					100.00
1887	Jan 1					100.00
1888	Jan 1					100.00
1889	Jan 1					100.00
1890	Jan 1					100.00
1891	Jan 1					100.00
1892	Jan 1					100.00
1893	Jan 1					100.00
1894	Jan 1					100.00
1895	Jan 1					100.00
1896	Jan 1					100.00
1897	Jan 1					100.00
1898	Jan 1					100.00
1899	Jan 1					100.00
1900	Jan 1					100.00

REMEMBRANCE 1840

