

## **Report / Board of Health, City of Edmonton, Alberta.**

### **Contributors**

Edmonton (Alta.). Board of Health.

### **Publication/Creation**

[Edmonton] : [The Board], [1946]

### **Persistent URL**

<https://wellcomecollection.org/works/kasqpdjz>

### **License and attribution**

This work has been identified as being free of known restrictions under copyright law, including all related and neighbouring rights and is being made available under the Creative Commons, Public Domain Mark.

You can copy, modify, distribute and perform the work, even for commercial purposes, without asking permission.



Wellcome Collection  
183 Euston Road  
London NW1 2BE UK  
T +44 (0)20 7611 8722  
E [library@wellcomecollection.org](mailto:library@wellcomecollection.org)  
<https://wellcomecollection.org>



# Report

*of the*

*Local Board of Health*



THE CITY OF EDMONTON

ALBERTA

1946

RCB / 34 m



22501418230

# BOARD OF HEALTH, 1946

Ald. C. E. Gariepy, Chairman

Dr. R. M. Shaw                      Mrs. Ald. E. Browne                      Dr. E. A. Hay Roe

Mrs. F. C. Butterworth, Edmonton Public School Board

Mr. J. A. Gallant, Separate School Board

## EX-OFFICIO MEMBERS

Mayor H. D. Ainlay

Dr. G. M. Little, M.O.H.                      Mr. A. W. Haddow, City Engineer

Catharine R. Rose, Secretary

# 1947

Ald. C. E. Gariepy, Chairman

Dr. R. M. Shaw                      Ald. J. R. Munro                      Dr. E.A. Hay Roe

Prof. A. Stewart, Edmonton Public School Board

Mr. J. A. Gallant, Separate School Board

## EX-OFFICIO MEMBERS

Mayor H. D. Ainlay

Dr. G. M. Little, M.O.H.                      Mr. A. W. Haddow, City Engineer

Catharine R. Rose, Secretary

## STAFF:

|                                 |                                |
|---------------------------------|--------------------------------|
| Medical Officer of Health.....  | Dr. G. M. Little, M.D., D.P.H. |
| Secretary, Board of Health..... | Rose, Miss C. R.               |
| Chief Health Inspector.....     | Methuen, A. P.                 |
| Health Inspector.....           | Alexander, L. G.               |
| Health Inspector.....           | Chase, H. G.                   |
| Health Inspector.....           | Hill, G. B.                    |
| Health Inspector.....           | Kent, Wm.                      |
| Health Inspector.....           | Milligan, W. A.                |
| Health Inspector.....           | Overton, L. B.                 |
| Health Inspector.....           | Shaw, I. D. F.                 |
| Health Inspector.....           | Williams, J. D.                |
| Quarantine Officer.....         | Anderson, R. T.                |
| Chief Food Inspector.....       | Morrison, Dr. D. M., V.S.      |
| Dairy Supervisor.....           | Ellinger, C.                   |
| Chemist and Milk Inspector..... | Graham, H. C., B.A.            |
| Public Health Nurse.....        | Griffith, Miss M., R.N.        |
| Public Health Nurse.....        | Christensen, Miss S. C.        |
| Public Health Nurse.....        | Thompson, Miss M. E.           |
| Stenographer, sr.....           | Derbyshire, Miss K. D.         |
| Stenographer.....               | Chernichen, Miss M.            |
| Stenographer.....               | Craig, Miss I. C.              |

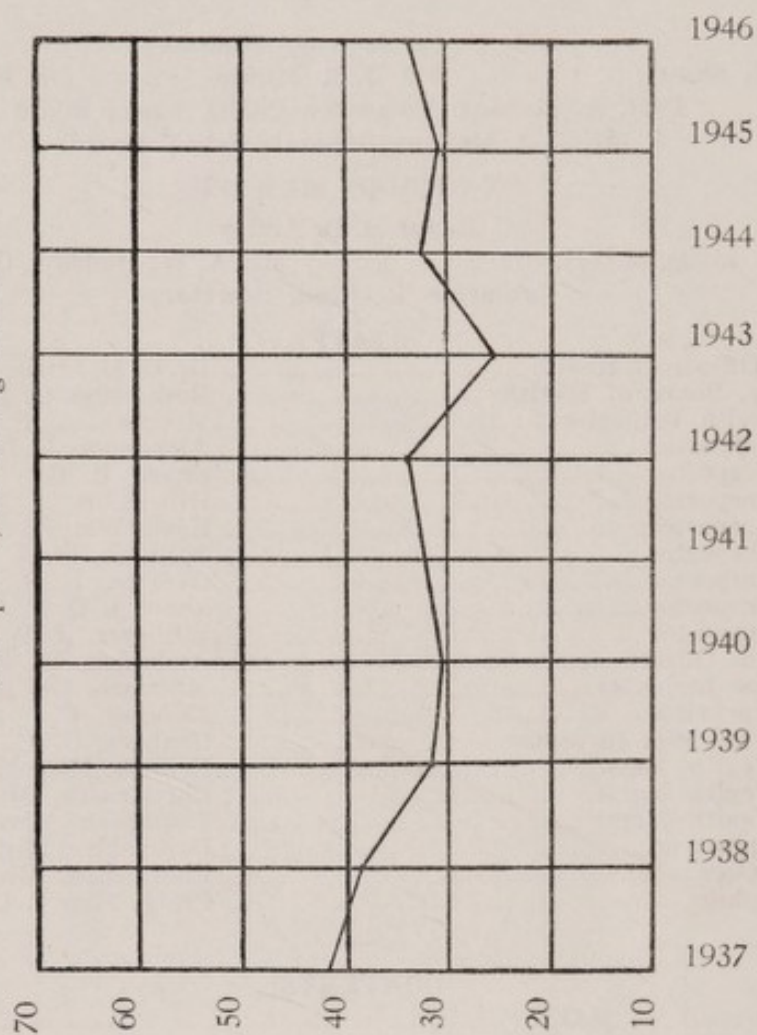
## CONTENTS:

|                                             |            |
|---------------------------------------------|------------|
| Annual Report of M.O.H.....                 | 3          |
| Financial Statement .....                   | 5          |
| Summary of Statistics .....                 | 5          |
| Vital Statistics .....                      | 6          |
| Infant Mortality .....                      | 7          |
| International List of Causes of Deaths..... | 8, 9       |
| Principal Causes of Deaths.....             | 10, 11     |
| Isolation Hospital .....                    | 11         |
| School Medical Services.....                | 11         |
| Immunization .....                          | 11         |
| Communicable Disease .....                  | 12, 13, 14 |
| Public Health Nursing.....                  | 15, 16     |
| Health Inspection .....                     | 17         |
| Food Inspection .....                       | 19         |
| Dairy Inspection .....                      | 21         |
| Laboratory Report .....                     | 21         |

Wellcome Library  
for the History  
and Understanding  
of Medicine

# INFANT MORTALITY

Rate per 1,000 Living Births.



WELLCOME  
LIBRARY

Ann Rep

WA28

.GC2

E24

1946

## Annual Report of the Medical Officer of Health

•

Chairman and Members,  
Local Board of Health,  
Edmonton, Alberta.

Gentlemen:

Herewith is submitted our report for 1946.

### Birth Rate:

The birth rate of 28.2 per 1,000 population is the highest in eighteen years. We are still, however, considerably short of the 37.1 per 1,000 reached in 1922.

### Death Rate:

A general death rate of 8.4 per 1,000 population was a small increase over the previous year. The increase was more marked, however, in certain individual causes. Heart disease still heads the list with 227.8 deaths per 100,000, as compared to the rate of 207.6 in 1945. Ninety-one per cent of these deaths were forty-five years of age or over. Many people arrive at middle age with some degree of heart damage. An increasing percentage of our population lies in the older age groups. If longevity is hoped for, we must gauge our activities by the ability of damaged or aging heart tissues. A slight reduction in the number of cancer deaths, despite our increased population, is encouraging. If more citizens will avail themselves of the facilities for early diagnosis of this disease offered by the medical profession and the Provincial Cancer Clinic, it is reasonable to expect that we can halt its increasing mortality, even though more and more of our people are living past middle age, when cancer is most prevalent.

External causes advanced to fourth in our list of Principal Causes of Death for 1946. Two classifications under this heading were outstanding. Deaths from automobile accidents increased more than fifty per cent, and suicides were nearly trebled from the previous year. The latter reminds us that the post-war period is a time of difficult readjustment for many of our citizens.

Infant mortality showed a slight increase, and premature birth remains by far the greatest single cause of death in this class. The greatest defence available against these premature births is adequate prenatal care for the mother. Unfortunately, there are still many mothers who make little or no contact with their doctor until the time of confinement has arrived.

### Communicable Diseases:

Tuberculosis remains the greatest cause of mortality amongst the communicable diseases. It brings disaster when most victims are in the prime of life and have the greatest family responsibility. Early diagnosis of this disease gives the greatest assurance of cure, and of preventing its spread. We have the means of achieving this in the chest X-ray survey units which the Provincial Tuberculosis Association and the Provincial Department of Health plan on making available to us again late in the summer of 1947. It is to be hoped that all our citizens will avail themselves of this simple and effective protection.

Measles accounted for nearly half the communicable diseases during the year. We have still no effective means of preventing the general spread of measles, but our Provincial Board of Health has made available a serum which will reduce the severity of attack in children under three years of age while still permitting the child to develop a natural immunity. It is at this early age that disasters are most likely to occur in this infection.

Whooping cough reached a remarkably low level of 92 cases for the year. We believe that the effective whooping cough vaccine now in use is in large part accountable for this comforting figure.

Immunization procedures numbering 13,141 were carried out on 4,683 children in our inoculation clinic which is open every afternoon. These were almost entirely babies and pre-school children. The School Medical Services carried out a further 7,562 such procedures in the schools.

It is interesting to calculate the saving our citizens derive from preventive services. Reducing the problem to averages, and adjusting for population, it is evident that preventive measures save our city from having 143 cases of smallpox, 500 cases of diphtheria and 780 cases of typhoid each year, as compared to thirty-five years ago. Aside from the death, disability and loss of earning power involved, this would represent a cost of more than a quarter of a million dollars to our citizens in these three diseases alone.

#### **Child Welfare:**

The number of babies and pre-school children under supervision by the Child Welfare Clinic has continued to increase. This service has, we believe, a direct influence upon our favorable infant mortality rate.

An urgent need in our city is more adequate nursing homes for babies whose parents cannot give them personal care.

#### **Sanitation:**

Overcrowding of dwelling accommodation still makes proper sanitation difficult in many parts of our city. Despite considerable building activity many of our citizens, particularly these in the lower income group, are not yet adequately housed.

A reinforced sanitary staff has permitted increased supervision of restaurants, stores, food factories and other food handling establishments. Many such establishments are only now emerging from the makeshift period forced upon us by war. Some types of equipment and plumbing are still difficult to obtain.

Constant supervision of our milk supply, with excellent co-operation from producers and distributors, has maintained a safe standard throughout the year. The demand, however, has threatened to overcome the supply at several periods; but with the co-operation of the Board of Public Utilities it is anticipated that an adequate future supply can be assured. The forced increase in cost was a disappointment to us, for we view a low cost milk supply as an outstanding protection to the public health.

#### **General:**

I have mentioned the need of homes for the care of babies. There is also an urgent need for more adequate accommodation for aged and infirm citizens. Even where moderate costs can be met, it is practically impossible for some of these older folk to find a suitable home, especially if their infirmity calls for some degree of care. It cannot be denied that some of them spend a grim period waiting to leave this world.

The capacity of the general hospitals of the City have been taxed severely during the year. Development of adequate hospital and medical facilities in the rural areas of our province may prove to be part of the answer to this problem.

We are again grateful to the Provincial Board of Health and the Provincial Laboratory for technical assistance and advice.

Respectfully submitted,

G. M. LITTLE,

Medical Officer of Health.

## EXPENDITURE

|                                          |                     |                     |
|------------------------------------------|---------------------|---------------------|
| 1. Salaries .....                        | \$ 38,868.41        | \$ 36,394.23        |
| 2. Supplies .....                        | 1,213.09            | 1,077.61            |
| 3. Transportation .....                  | 5,846.06            | 5,360.69            |
| 4/6. Telephones, sundries, uniforms..... | 1,261.24            | 882.24              |
| 7. Pensions .....                        | 3,699.95            | 3,071.52            |
| (Bathhouse included in Acct. 1 and 2.)   |                     |                     |
|                                          | <u>\$ 50,888.75</u> | <u>\$ 46,786.29</u> |

## REVENUE

|                    |                     |                     |
|--------------------|---------------------|---------------------|
| Permits            | \$ 554.75           |                     |
| Meat Inspection    | 932.60              |                     |
| License Department | 1,500.00            |                     |
|                    | <u>\$ 2,987.35</u>  | <u>2,987.35</u>     |
|                    |                     | <u>3,311.70</u>     |
|                    | <u>\$ 47,901.40</u> | <u>\$ 43,474.59</u> |

## EXPENDITURE—CLASSIFIED—1946

|                        | Administration     | Communicable Disease | Dairy Inspection  | Food Inspection   | Laboratory Service | Public Health Nursing | Sanitation         | Vital Statistics  | Bath House      | TOTALS             |
|------------------------|--------------------|----------------------|-------------------|-------------------|--------------------|-----------------------|--------------------|-------------------|-----------------|--------------------|
| 1. Salaries.....       | \$ 7,751.84        | \$3,073.58           | \$2,539.42        | \$3,288.63        | \$3,165.35         | \$3,381.23            | \$14,420.27        | \$1,093.42        | \$154.67        | \$38,868.41        |
| 2. Supplies.....       | 623.89             | 125.31               | 15.00             |                   | 183.94             |                       | 161.03             |                   | 103.92          | 1,213.09           |
| 3. Transportation..... | 400.20             | 1,134.18             | 780.00            | 240.00            | 600.35             | 866.11                | 1,825.22           |                   |                 | 5,846.06           |
| 4. Telephones.....     | 109.73             | 65.76                | 18.00             | 17.76             | 23.64              | 17.88                 | 82.20              |                   |                 | 334.97             |
| 5. Sundries.....       | 346.64             | 231.73               | 5.50              | 60.20             | 2.99               | 23.60                 | 78.07              |                   |                 | 748.73             |
| 6. Uniforms.....       |                    | 33.23                |                   |                   |                    | 38.41                 | 105.90             |                   |                 | 177.54             |
| 7. Pensions.....       | 3,699.95           |                      |                   |                   |                    |                       |                    |                   |                 | 3,699.95           |
|                        | <u>\$12,932.25</u> | <u>\$4,663.79</u>    | <u>\$3,357.92</u> | <u>\$3,606.69</u> | <u>\$3,976.27</u>  | <u>\$4,327.23</u>     | <u>\$16,672.69</u> | <u>\$1,093.42</u> | <u>\$258.59</u> | <u>\$50,888.75</u> |
|                        | 25.4%              | 9.2%                 | 6.6%              | 7.8%              | 7.8%               | 8.5%                  | 32.8%              | 2.1%              | .5%             | 100%               |

## SUMMARY OF STATISTICS

Area of City, 26,778 acres including 1,000 acres of water and 2,147 acres in Parks.

|                                          | 1946    | 1945    | 1944    | 1943    | 1942   |
|------------------------------------------|---------|---------|---------|---------|--------|
| Population.....                          | 114,976 | 111,745 | 108,416 | 105,536 | 96,725 |
| Persons per acre of land.....            | 4.2     | 4.1     | 4.0     | 3.9     | 3.8    |
| Cost per capita.....                     | .44     | .41     | .39     | .38     | .42    |
| School enrolment.....                    | 18,988  | 17,714  | 17,623  | 17,337  | 17,315 |
| Natural increase of population.....      | 2,283   | 1,831   | 1,622   | 1,629   | 1,260  |
| Total births.....                        | 5,455   | 4,726   | 4,286   | 4,083   | 3,526  |
| Resident births, only.....               | 3,251   | 2,695   | 2,447   | 2,443   | 1,972  |
| Rate per 1,000 population.....           | 28.2    | 24.1    | 22.6    | 23.1    | 20.3   |
| Total stillbirths.....                   | 82      | 83      | 61      | 67      | 55     |
| Resident stillbirths only.....           | 51      | 53      | 39      | 33      | 39     |
| Rate per 1,000 births.....               | 15.7    | 19.6    | 15.9    | 13.2    | 19.3   |
| Total deaths.....                        | 1,576   | 1,425   | 1,498   | 1,342   | 1,195  |
| Resident deaths only.....                | 968     | 864     | 825     | 841     | 712    |
| Rate per 1,000 population.....           | 8.4     | 7.7     | 7.5     | 7.7     | 7.3    |
| Total deaths under 1 year of age.....    | 197     | 159     | 159     | 124     | 127    |
| Resident deaths under 1 year of age..... | 111     | 84      | 82      | 62      | 68     |
| Rate per 1,000 living births.....        | 34.1    | 31.1    | 33.5    | 25.4    | 34.5   |
| Maternal deaths (city only).....         | 5       | 6       | 3       | 4       | 1      |
| Rate per 1,000 births.....               | 1.5     | 2.22    | 1.25    | 1.63    | .25    |
| Marriages.....                           | 2,205   | 2,098   | 1,839   | 1,640   | 1,590  |
| Rate per 1,000 population.....           | 19.1    | 18.8    | 17.4    | 17.6    | 23.0   |

## VITAL STATISTICS

## Births

|                             | 1946  | 1945  |
|-----------------------------|-------|-------|
| Total births .....          | 5,455 | 4,726 |
| Resident births only .....  | 3,251 | 2,695 |
| Male .....                  | 1,699 | 1,392 |
| Female .....                | 1,562 | 1,303 |
| Attended by Physician ..... | 3,247 | 2,690 |
| Attended by nurse .....     | ..... | 1     |
| Unattended .....            | 4     | 4     |
| Double births .....         | 30    | 39    |

Born in institutions—3,237 or 99.5%; born elsewhere—14.

## Maternal Parentage:

|                       | 1946           | 1945           |
|-----------------------|----------------|----------------|
| Canada .....          | 2,732 or 84.1% | 2,160 or 80.2% |
| British Isles .....   | 291 or 8.9%    | 215 or 8.0%    |
| Europe and Asia ..... | 120 or 3.7%    | 91 or 7.9%     |
| U.S.A. ....           | 94 or 2.9%     | 212 or 3.3%    |
| Other countries ..... | 14 or .4%      | 17 or .6%      |

## Stillbirths

|                            | 1946  | 1945  |
|----------------------------|-------|-------|
| Total stillbirths .....    | 82    | 83    |
| Resident only .....        | 51    | 53    |
| Male .....                 | 28    | 24    |
| Female .....               | 23    | 29    |
| Born in institutions ..... | 51    | 53    |
| Born elsewhere .....       | ..... | ..... |

## Cause of Foetal deaths:

|                              | 1946 | 1945 |
|------------------------------|------|------|
| Dystocia .....               | 27   | 20   |
| Prematurity .....            | 6    | 6    |
| Toxaemia of pregnancy .....  | 2    | 2    |
| Malformation .....           | 6    | 11   |
| Placenta and membranes ..... | 1    | 3    |
| Other conditions .....       | 9    | 11   |

## Deaths

|                            | 1946  | 1945  |
|----------------------------|-------|-------|
| Total deaths .....         | 1,576 | 1,425 |
| Resident deaths only ..... | 968   | 864   |
| Male .....                 | 595   | 519   |
| Female .....               | 373   | 345   |

## Racial Origin

|                       | 1946         | 1945         |
|-----------------------|--------------|--------------|
| Canada .....          | 327 or 33.8% | 326 or 37.8% |
| British Isles .....   | 350 or 36.1% | 325 or 37.7% |
| Europe and Asia ..... | 181 or 18.7% | 125 or 14.3% |
| U.S.A. ....           | 61 or 6.4%   | 60 or 7.0%   |
| Others .....          | 49 or 5.0%   | 28 or 3.2%   |

## INFANT MORTALITY

|                                                    | 1946 | 1945 |
|----------------------------------------------------|------|------|
| Total deaths under 1 year .....                    | 197  | 159  |
| Resident deaths under 1 year of age.....           | 111  | 84   |
| Male .....                                         | 70   | 52   |
| Female .....                                       | 41   | 32   |
| Infant mortality rate per 1,000 living births..... | 34.1 | 31.1 |

## INFANT MORTALITY, 1946

BY MONTH

BY AGE

SEX

|                                                            | TOTAL | Male | Female | January | February | March | April | May | June | July | August | September | October | November | December | 1st Day | 1st Week | 2nd Week | 3rd Week | 4th Week | Total Under 1 Month | 1-3 Months | 4-6 Months | 7-9 Months | 10-12 Months |
|------------------------------------------------------------|-------|------|--------|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|---------|----------|----------|----------|----------|---------------------|------------|------------|------------|--------------|
| 33b—Influenza without respiratory complications.....       | 1     |      | 1      | 1       |          | 1     |       |     |      |      |        | 1         |         |          | 1        |         |          |          |          |          |                     | 1          |            |            |              |
| 64—Enlarged Thymus.....                                    | 2     | 2    |        |         |          |       |       |     |      |      |        |           |         |          |          |         |          |          |          |          |                     | 2          |            |            |              |
| 81a—Simple meningitis.....                                 | 4     | 4    | 1      |         |          |       |       |     |      | 1    | 1      | 1         |         |          | 1        |         |          |          |          |          | 1                   | 2          | 1          | 1          | 1            |
| 84a—Mongolism.....                                         | 1     | 1    |        |         | 1        |       |       |     |      |      |        |           |         |          |          |         | 1        |          |          |          |                     |            |            |            |              |
| 96c—Carditis.....                                          | 1     |      | 1      |         |          |       | 1     |     |      |      |        |           |         |          |          |         |          |          |          |          |                     | 1          |            |            |              |
| 106—Bronchitis.....                                        | 1     |      |        |         |          |       |       |     |      |      |        |           |         |          |          |         |          |          |          |          |                     |            |            |            |              |
| 107—Bronchopneumonia.....                                  | 7     | 4    | 3      |         |          |       |       |     | 1    |      |        | 1         |         | 4        |          |         |          |          | 1        |          | 1                   | 3          | 1          | 2          | 1            |
| 108—Lobar pneumonia.....                                   | 1     |      | 1      |         |          |       |       |     |      |      |        |           |         | 1        |          |         |          | 1        |          |          | 1                   |            |            |            |              |
| 109—Disseminated pneumonia.....                            | 1     | 1    |        |         |          |       |       |     |      |      |        |           |         |          |          |         |          |          |          |          |                     |            |            |            |              |
| 112—Status Asthmaticus.....                                | 1     |      | 1      |         |          |       |       |     |      |      |        | 1         |         |          |          |         |          |          |          |          |                     | 1          |            |            |              |
| 119a—Gastro enteritis.....                                 | 14    | 7    | 7      |         |          |       |       |     | 3    | 1    |        | 2         | 2       | 2        | 5        |         | 1        | 3        |          | 4        | 4                   | 6          | 4          |            |              |
| 121—Ruptured appendix.....                                 | 1     |      |        | 2       |          |       |       |     |      |      | 1      |           |         |          |          |         |          |          |          |          |                     | 1          |            |            |              |
| 157a—Congenital hydrocephalus.....                         | 4     | 3    | 1      |         |          |       |       |     |      |      |        |           |         | 1        |          |         |          |          |          |          | 2                   | 2          |            |            |              |
| 157b—Spina bifida and meningocele.....                     | 1     |      | 1      |         |          |       |       |     |      |      |        |           | 1       |          |          |         |          |          |          |          | 1                   |            |            |            |              |
| 157d—Other congenital malformations of nervous system..... | 3     | 3    |        | 1       |          | 1     |       |     |      | 1    |        |           |         |          |          |         | 1        |          |          |          | 1                   | 1          |            |            | 1            |
| 157e—Congenital malformations of heart.....                | 3     | 3    |        |         |          |       |       |     |      |      |        |           |         |          | 2        |         | 1        | 1        |          | 2        | 1                   | 1          |            |            | 1            |
| 157g—Congenital malformations of digestive system.....     | 3     | 1    | 2      |         |          |       |       |     |      | 1    |        |           |         | 2        |          |         | 1        |          |          |          | 1                   | 1          | 1          |            |              |
| 157m—Other congenital malformations.....                   | 1     | 1    |        |         |          | 1     |       |     |      |      |        |           |         |          |          | 1       |          |          |          |          |                     |            |            |            |              |
| 158—Congenital debility.....                               | 3     | 2    | 1      |         |          |       | 2     |     |      |      |        |           |         |          |          |         |          |          |          |          | 1                   | 2          |            |            |              |
| 159—Premature birth.....                                   | 33    | 21   | 12     | 2       | 3        | 2     |       | 2   | 2    | 4    | 3      | 1         | 4       | 2        | 8        | 15      | 10       | 5        | 2        |          | 32                  | 1          |            |            |              |
| 160a—Intracranial haemorrhage.....                         | 1     | 1    |        |         |          |       |       | 1   |      |      |        |           |         |          |          |         |          |          |          |          |                     |            |            |            |              |
| 160e—Other injuries at birth.....                          | 7     | 5    | 2      |         |          | 3     |       | 1   |      | 1    | 2      |           |         |          |          | 6       | 1        |          |          |          | 7                   | 1          |            |            |              |
| 161a—Atelectasis.....                                      | 12    | 10   | 2      | 1       |          | 1     |       | 3   |      | 1    | 2      | 2         | 2       |          | 2        | 6       | 6        |          |          |          | 12                  |            |            |            |              |
| 161c—Other diseases peculiar to 1st year of life.....      | 2     | 2    |        |         |          |       |       |     |      |      |        |           |         |          |          |         |          |          |          |          | 2                   |            |            |            |              |
| 182—Accidental mechanical suffocation.....                 | 1     | 1    |        |         |          |       |       |     |      |      |        |           |         | 1        |          | 2       |          |          |          |          |                     | 1          |            |            |              |
| 200a—Undefined and unknown.....                            | 2     | 2    |        | 1       |          | 1     |       |     |      |      |        |           |         |          |          | 2       |          |          |          |          |                     |            |            |            |              |
|                                                            | 111   | 70   | 41     | 7       | 4        | 7     | 7     | 9   | 6    | 10   | 9      | 9         | 9       | 14       | 20       | 34      | 21       | 9        | 8        | 72       | 25                  | 7          | 4          | 3          | 3            |

ABRIDGED INTERNATIONAL CLASSIFICATION OF CAUSES OF DEATH, 1946

[illegible]



## PRINCIPAL CAUSES OF DEATHS—1946

|         |                                                                                     | 1946  |      |        |                   |                          | 1945  |      |        |                   |                          |
|---------|-------------------------------------------------------------------------------------|-------|------|--------|-------------------|--------------------------|-------|------|--------|-------------------|--------------------------|
|         |                                                                                     | Total | Male | Female | % of Total Deaths | Rate per 100M Population | Total | Male | Female | % of Total Deaths | Rate per 100M Population |
| 90—95   | Diseases of the heart.....                                                          | 262   | 162  | 100    | 27.0              | 227.8                    | 232   | 155  | 77     | 26.8              | 207.6                    |
| 45—55   | Cancer and other malignant tumors.....                                              | 146   | 82   | 64     | 15.1              | 126.9                    | 148   | 91   | 57     | 17.1              | 132.4                    |
| 83—     | Intracranial lesions of vascular origin.....                                        | 97    | 55   | 42     | 10.0              | 84.3                     | 93    | 38   | 55     | 10.7              | 83.2                     |
| 163—198 | External causes.....                                                                | 83    | 64   | 19     | 8.3               | 72.2                     | 59    | 42   | 17     | 6.8               | 52.8                     |
| 157—161 | Congenital debility, pre-mature birth, diseases peculiar to first year of life..... | 76    | 51   | 25     | 7.8               | 66.0                     | 55    | 33   | 22     | 6.3               | 49.3                     |
| 107—109 | Pneumonia and Bronchopneumonia.....                                                 | 49    | 34   | 15     | 5.0               | 42.6                     | 43    | 30   | 13     | 4.9               | 39.3                     |
| 13—22   | Tuberculosis, all forms.....                                                        | 30    | 13   | 17     | 3.0               | 26.0                     | 28    | 18   | 10     | 3.2               | 25.0                     |
| 130—132 | Nephritis.....                                                                      | 23    | 15   | 8      | 2.3               | 20.0                     | 17    | 11   | 6      | 1.9               | 15.2                     |
| 162     | Senility.....                                                                       | 20    | 10   | 10     | 2.0               | 17.4                     | 17    | 5    | 12     | 1.9               | 15.2                     |
| 119—120 | Diarrhea and enteritis.....                                                         | 18    | 9    | 9      | 1.8               | 15.6                     | 11    | 8    | 3      | 1.2               | 9.8                      |
|         |                                                                                     | 804   | 495  | 309    | 89.1              |                          |       |      |        |                   |                          |

## MORTALITY FROM HEART DISEASE

| Year      | Total Deaths | Deaths From Heart Disease | Percentage of Total Deaths | Rate per 100M Population |
|-----------|--------------|---------------------------|----------------------------|--------------------------|
| 1946..... | 968          | 262                       | 27.0                       | 227.8                    |
| 1945..... | 864          | 232                       | 26.8                       | 207.6                    |
| 1944..... | 825          | 199                       | 24.1                       | 183.5                    |
| 1943..... | 814          | 202                       | 24.8                       | 191.4                    |
| 1942..... | 712          | 197                       | 27.7                       | 203.4                    |

## MORTALITY FROM CANCER

| Year      | Total Deaths | Deaths From Cancer | Percentage of Total Deaths | Rate per 100M Population |
|-----------|--------------|--------------------|----------------------------|--------------------------|
| 1946..... | 968          | 146                | 15.1                       | 126.9                    |
| 1945..... | 864          | 148                | 17.1                       | 132.4                    |
| 1944..... | 825          | 132                | 16.0                       | 121.7                    |
| 1943..... | 814          | 121                | 15.0                       | 114.7                    |
| 1942..... | 712          | 111                | 15.6                       | 114.4                    |

## MORTALITY FROM INTRACRANIAL LESIONS OF VASCULAR ORIGIN

| Year      | Total Deaths | Deaths From This Cause | Percentage of Total Deaths | Rate per 100M Population |
|-----------|--------------|------------------------|----------------------------|--------------------------|
| 1946..... | 968          | 97                     | 10.0                       | 84.3                     |
| 1945..... | 864          | 93                     | 10.7                       | 83.2                     |
| 1944..... | 825          | 84                     | 10.1                       | 77.5                     |
| 1943..... | 814          | 74                     | 9.0                        | 70.4                     |
| 1942..... | 712          | 62                     | 8.7                        | 63.9                     |

## MORTALITY FROM PNEUMONIA

| Year      | Total Deaths | Deaths From Pneumonia | Percentage of Total Deaths | Rate per 100M Population |
|-----------|--------------|-----------------------|----------------------------|--------------------------|
| 1946..... | 968          | 49                    | 5.0                        | 42.6                     |
| 1945..... | 864          | 43                    | 4.9                        | 39.3                     |
| 1944..... | 825          | 41                    | 4.9                        | 37.8                     |
| 1943..... | 814          | 47                    | 5.8                        | 44.5                     |
| 1942..... | 712          | 32                    | 4.6                        | 33.0                     |

## MORTALITY FROM TUBERCULOSIS

| Year      | Total Deaths | Deaths From Tuberculosis | Percentage of Total Deaths | Rate per 100M Population |
|-----------|--------------|--------------------------|----------------------------|--------------------------|
| 1946..... | 968          | 30                       | 3.0                        | 26.0                     |
| 1945..... | 864          | 28                       | 3.2                        | 25.0                     |
| 1944..... | 825          | 26                       | 3.1                        | 23.9                     |
| 1943..... | 814          | 20                       | 2.4                        | 18.9                     |
| 1942..... | 712          | 24                       | 3.3                        | 24.7                     |

## MORTALITY FROM EXTERNAL CAUSES

| Year | Total Deaths | Deaths From External Causes | Male | Female | Suicide | Homicide | Automobile Accidents | Other Accidents | Percentage of Deaths | Rate Per 100M Population |
|------|--------------|-----------------------------|------|--------|---------|----------|----------------------|-----------------|----------------------|--------------------------|
| 1946 | 968          | 83                          | 64   | 19     | 25      | 1        | 17                   | 40              | 8.3                  | 72.2                     |
| 1945 | 864          | 59                          | 42   | 17     | 9       | ....     | 11                   | 39              | 6.8                  | 52.8                     |
| 1944 | 825          | 40                          | 31   | 9      | 9       | ....     | 9                    | 22              | 4.8                  | 36.8                     |
| 1943 | 814          | 51                          | 40   | 11     | 5       | ....     | 13                   | 33              | 6.2                  | 48.3                     |
| 1942 | 712          | 38                          | 27   | 11     | 4       | 1        | 7                    | 26              | 5.3                  | 39.0                     |

## ISOLATION HOSPITAL

Five hundred and forty-seven patients were admitted, 70 were carried over from 1946 making a total of 617. There were 547 discharged, 15 died and 47 remained in the hospital at the end of the year.

The diseases hospitalized included

|                            |     |                    |    |
|----------------------------|-----|--------------------|----|
| Scarlet Fever              | 184 | Erysipelas         | 24 |
| Scarlet Fever suspects     | 3   | Measles            | 33 |
| Diphtheria                 | 10  | Mumps              | 47 |
| Diphtheria carriers        | 8   | Rubella            | 4  |
| Diphtheria suspects        | 3   | Chickenpox         | 13 |
| Poliomyelitis              | 51  | Whooping Cough     | 10 |
| Poliomyelitis suspects     | 25  | Vaginitis          | 3  |
| Meningitis (meningococcic) | 6   | G. C. Ophthalmia   | 1  |
| Tuberculosis               | 146 | Syphilis           | 2  |
| Typhoid Fever              | 2   | Septic Sore Throat | 7  |
| Typhoid Fever suspect      | 2   | Vincent's Angina   | 2  |
| Para Typhoid               | 1   | Others             | 71 |

The deaths included:

|                          |   |                            |   |
|--------------------------|---|----------------------------|---|
| Tuberculosis             | 1 | Poliomyelitis              | 4 |
| Measles and Pneumonia    | 1 | Meningitis (meningococcic) | 1 |
| Measles and Encephalitis | 1 | Other conditions           | 7 |

## SCHOOL MEDICAL SERVICES

|                                 | Public School Board | R.C. Separate School Board |
|---------------------------------|---------------------|----------------------------|
| Complete examinations           | 4237                | 654                        |
| Number reported with defects    | 1544                | 130                        |
| Number reported without defects | 2693                | 524                        |
| Parents present at examinations | 2787                | 305                        |
| Homes visited by nurses         | 646                 | 70                         |
| Talks to classes                | 160                 | 40                         |

## IMMUNIZATION

|                               | Smallpox | Diphtheria | Scarlet Fever | Whooping Cough | Typhoid Fever | Tetanus | Typhus | Cholera | Plague | Schick Test | Dick Test |
|-------------------------------|----------|------------|---------------|----------------|---------------|---------|--------|---------|--------|-------------|-----------|
| 1946                          |          |            |               |                |               |         |        |         |        |             |           |
| Board of Health (cases)       | 1530     | 1300       | 401           | 1364           | 60            | 13      | 5      | 5       | 5      | 34          | 59        |
| Board of Health (doses)       | 1530     | 4031       | 2225          | 5090           | 190           | 45      | 10     | 10      | 10     | 34          | 59        |
| Public School Board (cases)   | 2244     | 2513       | .....         | .....          | .....         | .....   | .....  | .....   | .....  | .....       | .....     |
| Public School Board (doses)   | 2244     | 4062       | .....         | .....          | .....         | .....   | .....  | .....   | .....  | .....       | .....     |
| Separate School Board (cases) | 284      | 181        | .....         | .....          | .....         | .....   | .....  | .....   | .....  | .....       | .....     |
| Separate School Board (doses) | 284      | 972        | .....         | .....          | .....         | .....   | .....  | .....   | .....  | .....       | .....     |
| Total cases                   | 4058     | 3994       | 401           | 1364           | 60            | 13      | 5      | 5       | 5      | 34          | 59        |
| Materials distributed to      |          |            |               |                |               |         |        |         |        |             |           |
| Private Physicians            | 675      | 364        | 42            | 319            | 11            | .....   | .....  | .....   | .....  | 1           | 1         |
| 1945                          |          |            |               |                |               |         |        |         |        |             |           |
| Board of Health (cases)       | 611      | 1161       | 436           | 1262           | 47            | 2       | .....  | .....   | .....  | 82          | 71        |
| Board of Health (doses)       | 611      | 3584       | 2250          | 4515           | 159           | 2       | .....  | .....   | .....  | 82          | 71        |
| Public School Board (cases)   | 2320     | .....      | .....         | .....          | .....         | .....   | .....  | .....   | .....  | .....       | .....     |
| Public School Board (doses)   | 3771     | .....      | .....         | .....          | .....         | .....   | .....  | .....   | .....  | .....       | .....     |
| Separate School Board (cases) | 461      | 324        | .....         | .....          | .....         | .....   | .....  | .....   | .....  | .....       | .....     |
| Separate School Board (doses) | 461      | 947        | .....         | .....          | .....         | .....   | .....  | .....   | .....  | .....       | .....     |
| Total Cases                   | 1072     | 3805       | 436           | 1262           | 47            | 2       | .....  | .....   | .....  | 82          | 71        |
| Materials distributed to      |          |            |               |                |               |         |        |         |        |             |           |
| Private Physicians            | 454      | 517        | 35            | 352            | 14            | .....   | .....  | .....   | .....  | 1           | 1         |

## COMMUNICABLE DISEASE, 1942-1946

|                                 | 1946 |    | 1945 |    | 1944 |    | 1943 |    | 1942 |    |
|---------------------------------|------|----|------|----|------|----|------|----|------|----|
|                                 | C    | D  | C    | D  | C    | D  | C    | D  | C    | D  |
| Actinomycosis.....              |      |    |      |    |      |    |      |    | 2    |    |
| Chickenpox.....                 | 934  |    | 1389 |    | 1793 |    | 745  |    | 726  |    |
| Diphtheria.....                 | 3    |    | 2    |    | 5    |    | 111  | 1  | 7    | 2  |
| Diphtheria carriers.....        | 5    |    | 5    |    | 16   |    | 12   |    | 4    |    |
| Dysentery.....                  |      |    |      |    |      |    | 2    |    |      |    |
| Encephalitis.....               | 4    | 2  |      | 1  |      |    | 3    |    |      |    |
| Erysipelas.....                 | 23   |    | 19   |    | 17   |    | 18   |    | 17   |    |
| Influenza.....                  |      | 6  |      | 2  |      | 6  |      | 11 |      | 8  |
| Measles.....                    | 2563 | 1  | 444  |    | 2420 |    | 1926 | 1  | 673  |    |
| Meningitis (Meningococcic)..... | 4    |    | 4    |    | 3    | 2  | 9    | 2  | 3    | 1  |
| Mononucleosis (infectious)..... |      |    |      |    | 1    |    |      |    |      |    |
| Mumps.....                      | 1378 |    | 1880 |    | 397  |    | 1076 |    | 2006 |    |
| Paratyphoid.....                | 1    |    |      |    | 1    |    | 1    |    | 1    |    |
| Poliomyelitis.....              | 8    |    |      |    | 5    |    | 7    |    |      |    |
| Pneumonia (lobar).....          | 1    | 8  | 2    | 15 |      | 9  |      | 11 |      | 6  |
| Puerperal Septicaemia.....      |      |    |      |    | 1    |    |      |    |      |    |
| Rubella.....                    | 183  |    | 277  |    | 77   |    | 330  |    | 653  |    |
| Scarlet Fever.....              | 173  |    | 374  |    | 1010 | 1  | 513  | 2  | 512  |    |
| Septic Sore Throat.....         | 2    |    | 7    |    | 4    |    | 8    |    | 24   |    |
| Tuberculosis (Pulmonary).....   | 78   | 20 | 64   | 26 | 69   | 20 | 133  | 15 | 68   | 17 |
| Tuberculosis (other forms)..... | 2    | 10 |      | 2  | 2    | 6  | 4    | 5  | 6    | 7  |
| Typhoid Fever.....              |      |    | 2    |    |      |    | 1    |    |      |    |
| Undulant Fever.....             | 2    |    | 3    |    | 1    |    |      |    |      |    |
| Vincent's Angina.....           | 7    |    | 28   | 1  | 20   |    | 1    |    | 1    |    |
| Whooping Cough.....             | 92   |    | 237  |    | 222  | 2  | 856  | 2  | 356  | 1  |

## Venereal Disease—

|                        |      |    |      |    |      |    |      |    |      |    |
|------------------------|------|----|------|----|------|----|------|----|------|----|
| Gonorrhoea.....        | 642  |    | 479  |    | 308  |    | 209  |    | 155  |    |
| G. C. Vaginitis.....   | 3    |    | 12   |    | 4    |    | 4    |    |      |    |
| Syphilis.....          | 81   | 4  | 108  | 5  | 74   | 6  | 38   | 7  | 74   | 5  |
| Type Undetermined..... | 12   |    | 5    |    |      |    |      |    |      |    |
|                        | 6201 | 51 | 5341 | 53 | 6449 | 53 | 5908 | 57 | 5287 | 47 |

Morbidity per 1,000 population..... 53.9      47.6      60.3      56.0      54.5

C—Cases.

D—Deaths.

During 1946 reportable diseases were responsible for 51 or 5.2 of the 968 City deaths.

Of the 51 deaths from communicable disease, 44 were over 19 years of age and 30 were due to all forms of Tuberculosis, and 4 to Syphilis.

Of the 6,201 cases of communicable disease, 2,563 or 41.3% were due to Measles; 1,378 or 22.2% were due to Mumps. There were 173 cases of Scarlet Fever or 2.7% of the total number of communicable diseases reported.

|                                    | No. of Cases | Percent of Cases | No. of Deaths | Percent of Deaths |
|------------------------------------|--------------|------------------|---------------|-------------------|
| Pre-school cases—1 to 5 years..... | 1882         | 30.4             | 4             | 7.8               |
| School cases—6 to 14 years.....    | 2919         | 47.1             | 2             | 2.0               |
| Over 15 .....                      | 1283         | 20.7             | 45            | 90.2              |
| Age not stated .....               | 97           | 1.4              |               |                   |
| Armed forces .....                 | 20           | .4               |               |                   |

## COMMUNICABLE DISEASE BY AGE, 1946

|                                 | City<br>Cases | Male        | Female      | Under      | 1/4         | 5/14        | 15/19      | Over<br>20 | Not Armed Outside<br>Stated Forces Cases | Armed Outside<br>Stated Forces Cases |
|---------------------------------|---------------|-------------|-------------|------------|-------------|-------------|------------|------------|------------------------------------------|--------------------------------------|
| Chickenpox.....                 | 934           | 455         | 479         | 1          | 255         | 566         | 23         | 37         | 7                                        | 13                                   |
| Diphtheria.....                 | 3             | 2           | 1           | 41         | 1           | 1           | 1          | 1          | 6                                        | 4                                    |
| Diphtheria carriers.....        | 5             | 3           | 2           | 1          | 1           | 3           | 2          | 2          | 3                                        | 3                                    |
| Encephalitis.....               | 4             | 2           | 2           | 2          | 3           | 2           | 16         | 16         | 3                                        | 3                                    |
| Erysipelas.....                 | 23            | 11          | 12          | 89         | 1108        | 1271        | 31         | 43         | 18                                       | 24                                   |
| Measles.....                    | 2563          | 1250        | 1313        | 1          | 827         | 1           | 96         | 195        | 28                                       | 1                                    |
| Meningitis (Meningococci).....  | 4             | 1           | 3           | 6          | 221         | 1           | 1          | 1          | 5                                        | 18                                   |
| Mumps.....                      | 1378          | 652         | 726         | 1          | 1           | 1           | 1          | 1          | 1                                        | 1                                    |
| Paratyphoid.....                | 1             | 1           | 1           | 1          | 1           | 1           | 1          | 1          | 1                                        | 1                                    |
| Pneumonia (lobar).....          | 1             | 1           | 1           | 1          | 1           | 1           | 1          | 1          | 1                                        | 1                                    |
| Poliomylitis.....               | 8             | 6           | 2           | 1          | 2           | 5           | 1          | 1          | 1                                        | 43                                   |
| Rubella.....                    | 183           | 53          | 130         | 1          | 48          | 101         | 15         | 18         | 6                                        | 6                                    |
| Scarlet Fever.....              | 173           | 68          | 105         | 1          | 40          | 98          | 10         | 17         | 1                                        | 19                                   |
| Septic Sore Throat.....         | 2             | 1           | 1           | 1          | 1           | 1           | 1          | 1          | 1                                        | 1                                    |
| Tuberculosis (Pulmonary).....   | 78            | 42          | 36          | 1          | 1           | 3           | 14         | 52         | 7                                        | 8                                    |
| Tuberculosis (other forms)..... | 2             | 2           | 1           | 1          | 1           | 1           | 1          | 1          | 1                                        | 1                                    |
| Tularaemia.....                 | 2             | 2           | 1           | 1          | 1           | 1           | 1          | 1          | 1                                        | 1                                    |
| Typhoid Fever.....              | 2             | 2           | 1           | 1          | 1           | 1           | 1          | 1          | 1                                        | 1                                    |
| Undulant Fever.....             | 7             | 6           | 1           | 1          | 1           | 1           | 1          | 1          | 1                                        | 1                                    |
| Vincent's Angina.....           | 92            | 45          | 47          | 17         | 39          | 35          | 1          | 1          | 5                                        | 1                                    |
| Whooping Cough.....             | 92            | 45          | 47          | 17         | 39          | 35          | 1          | 1          | 5                                        | 1                                    |
| <b>Veneral Disease—</b>         |               |             |             |            |             |             |            |            |                                          |                                      |
| Gonorrhoea.....                 | 642           | 395         | 247         | 1          | 1           | 1           | 90         | 532        | 19                                       | 157                                  |
| G. C. Vaginitis.....            | 3             | 3           | 3           | 1          | 1           | 1           | 1          | 1          | 1                                        | 1                                    |
| Syphilis.....                   | 81            | 43          | 38          | 2          | 1           | 1           | 5          | 66         | 8                                        | 1                                    |
| Type Undetermined.....          | 12            | 7           | 5           | 1          | 1           | 1           | 2          | 7          | 3                                        | 1                                    |
| <b>TOTALS</b> .....             | <b>8201</b>   | <b>3045</b> | <b>3156</b> | <b>163</b> | <b>1719</b> | <b>2919</b> | <b>288</b> | <b>995</b> | <b>997</b>                               | <b>20</b>                            |

## DEATHS:

|                                 |           |           |           |          |          |          |           |           |           |          |
|---------------------------------|-----------|-----------|-----------|----------|----------|----------|-----------|-----------|-----------|----------|
| Encephalitis.....               | 2         | 1         | 1         | 1        | 1        | 1        | 1         | 2         | 2         | 1        |
| Influenza.....                  | 6         | 4         | 2         | 1        | 1        | 1        | 1         | 5         | 5         | 1        |
| Measles.....                    | 1         | 1         | 1         | 1        | 1        | 1        | 1         | 6         | 6         | 1        |
| Pneumonia (lobar).....          | 8         | 7         | 1         | 1        | 1        | 1        | 1         | 20        | 8         | 1        |
| Tuberculosis (pulmonary).....   | 20        | 8         | 12        | 1        | 1        | 1        | 1         | 8         | 8         | 1        |
| Tuberculosis (other forms)..... | 10        | 5         | 5         | 1        | 1        | 1        | 1         | 4         | 4         | 1        |
| Syphilis.....                   | 4         | 3         | 1         | 1        | 1        | 1        | 1         | 4         | 4         | 1        |
| <b>TOTALS</b> .....             | <b>51</b> | <b>29</b> | <b>32</b> | <b>2</b> | <b>2</b> | <b>2</b> | <b>45</b> | <b>45</b> | <b>45</b> | <b>1</b> |

## COMMUNICABLE DISEASE BY SEASON AND SEX, 1946

|                                 | City  |       | Jan.   | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  | Outside |
|---------------------------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
|                                 | Cases | Male  | Female |       |       |       |       |       |       |       |       |       |       |       | Cases   |
| Chickenpox.....                 | 934   | 455   | 479    | 73    | 59    | 45    | 51    | 42    | 59    | 65    | 40    | 47    | 110   | 152   | 13      |
| Diphtheria.....                 | 3     | 2     | 1      | ..... | ..... | ..... | ..... | ..... | 1     | 1     | ..... | ..... | ..... | ..... | 6       |
| Diphtheria carriers.....        | 5     | 3     | 2      | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 4       |
| Encephalitis.....               | 4     | 2     | 2      | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3       |
| Erysipelas.....                 | 23    | 11    | 12     | 5     | 1     | 2     | 4     | 1     | 3     | 3     | ..... | ..... | ..... | ..... | 3       |
| Measles.....                    | 2563  | 1250  | 1313   | 12    | 9     | 53    | 165   | 523   | 873   | 502   | 77    | 20    | 25    | 169   | 24      |
| Meningitis (Meningococci).....  | 4     | 1     | 3      | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1       |
| Mumps.....                      | 1378  | 652   | 726    | 181   | 126   | 166   | 194   | 162   | 120   | 82    | 56    | 57    | 63    | 87    | 18      |
| Paratyphoid.....                | 1     | ..... | 1      | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2       |
| Pneumonia (lobar).....          | 1     | ..... | .....  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1       |
| Polio-myelitis.....             | 8     | 6     | 2      | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 43      |
| Rubella.....                    | 183   | 53    | 130    | 8     | 17    | 19    | 40    | 28    | 20    | 8     | 4     | 5     | 5     | 12    | 6       |
| Scarlet Fever.....              | 173   | 68    | 105    | 20    | 16    | 23    | 22    | 27    | 14    | 13    | 7     | 11    | 12    | 6     | 19      |
| Septic Sore Throat.....         | 2     | 1     | 1      | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....   |
| Tuberculosis (Pulmonary).....   | 78    | 42    | 36     | 3     | 2     | 8     | 17    | 12    | 8     | 5     | 3     | 5     | 4     | 8     | 8       |
| Tuberculosis (other forms)..... | 2     | ..... | .....  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....   |
| Tularaemia.....                 | ..... | ..... | .....  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....   |
| Typhoid Fever.....              | ..... | ..... | .....  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2       |
| Undulant Fever.....             | 2     | ..... | 2      | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2       |
| Vincent's Angina.....           | 7     | 6     | 1      | 1     | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1       |
| Whooping Cough.....             | 92    | 45    | 47     | 5     | 9     | 8     | 21    | 17    | 8     | 6     | 2     | 2     | 4     | 6     | 2       |
|                                 |       |       |        |       |       |       |       |       |       |       |       |       |       |       | 1       |
| <b>Veneral Disease—</b>         |       |       |        |       |       |       |       |       |       |       |       |       |       |       |         |
| Gonorrhoea.....                 | 642   | 395   | 247    | 46    | 47    | 58    | 41    | 76    | 59    | 42    | 54    | 65    | 49    | 39    | 66      |
| G. C. Vaginitis.....            | 3     | ..... | 3      | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....   |
| Syphilis.....                   | 81    | 43    | 38     | 9     | 8     | 8     | 3     | 5     | 5     | 7     | 7     | 3     | 8     | 7     | 2       |
| Type Undetermined.....          | 12    | 7     | 5      | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....   |
| TOTALS.....                     | 6201  | 3045  | 3156   | 363   | 295   | 393   | 563   | 903   | 1174  | 742   | 258   | 218   | 286   | 487   | 519     |
|                                 |       |       |        |       |       |       |       |       |       |       |       |       |       |       | 157     |

## DEATHS:

|                                 |    |    |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------------------------|----|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Encephalitis.....               | 2  | 1  | 1     | 1     | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Influenza.....                  | 6  | 4  | 2     | 3     | 1     | 1     | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Measles.....                    | 1  | 1  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Pneumonia (lobar).....          | 8  | 7  | 1     | 3     | 1     | 1     | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Tuberculosis (pulmonary).....   | 20 | 8  | 12    | 1     | 4     | 2     | 2     | 3     | 1     | 1     | ..... | 2     | 1     | ..... | 4     |
| Tuberculosis (other forms)..... | 10 | 5  | 5     | 1     | 1     | 1     | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Syphilis.....                   | 4  | 3  | 1     | 1     | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| TOTALS.....                     | 51 | 29 | 22    | 10    | 6     | 6     | 3     | 8     | 3     | 1     | 1     | 5     | 1     | 1     | 6     |

## TUBERCULOSIS CONTROL

|                               |      |      |
|-------------------------------|------|------|
| Kinsmen's Club Service:       | 1946 | 1945 |
| Total visits by nurse .....   | 3196 | 3381 |
| Visits to T.B. cases .....    | 741  | 664  |
| Visits to suspect cases ..... | 134  | 68   |
| Visits to contact cases ..... | 2125 | 2365 |
| Not seen, moved, etc. ....    | 50   | 59   |
| Co-operative visits .....     | 146  | 225  |

## Provincial Tuberculosis Division:

## Examinations—

|                                  |      |       |
|----------------------------------|------|-------|
| Active cases .....               | 119  | 119   |
| Suspects .....                   | 167  | 99    |
| Contacts .....                   | 511  | 306   |
| Non-contacts .....               | 1069 | 1013  |
| Total examinations .....         | 2883 | 2397  |
| Total X-Rays .....               | 2731 | 2161  |
| Tuberculin tests made .....      | 1598 | 1128  |
| Tuberculin tests, positive ..... | 575  | 449   |
| Mobile X-ray clinic .....        | 8138 | 27941 |

## PUBLIC HEALTH NURSING

Again we had a very busy year at the Baby Clinic having a large number of very young babies. 2,209 new admissions were made with 97 re-admissions making a total of 2,306 and being 411 above the previous year.

At intervals during the year we encountered diarrhea in the new baby, at times quite serious.

One hundred and fifty-three out-of-town cases were in attendance and 66 letters were written with regard to the care and feeding of babies.

|                                            | 1946 | 1945 | 1944 | 1943 | 1942 |
|--------------------------------------------|------|------|------|------|------|
| Number of clinics held .....               | 200  | 200  | 200  | 150  | 101  |
| Babies in attendance (under 2 years) ..... | 6857 | 6208 | 6198 | 5649 | 4905 |
| Pre-school in attendance .....             | 1310 | 1212 | 1158 | 1067 | 1146 |
| Total .....                                | 8167 | 7420 | 7356 | 6716 | 6051 |
| Average .....                              | 41   | 37   | 37   | 45   | 60   |
| New cases admitted, babies .....           | 1881 | 1523 | 1378 | 1320 | 1119 |
| New cases admitted, pre-school .....       | 328  | 281  | 262  | 240  | 61   |
| Babies referred to family doctor .....     | 10   | 9    | 25   | 31   | 21   |
| Pre-school referred to family doctor ..... | 21   | 16   | 20   | 36   | 24   |
| Re-admitted babies .....                   | 4    | 10   | 11   | .... | .... |
| Readmitted pre-school .....                | 93   | 81   | 81   | .... | .... |

Dr. Mildred Newell was in attendance at the Tuesday clinics as usual, and Dr. Margaret Collins, attended the Friday clinics on the retirement of Dr. Folinsbee.

B.Sc. and Public Health nurses from the University of Alberta were with us for observation at Clinics and field work. We also had nurses from the Royal Alexandra hospital at the clinics.

Miss Blanche Emerson retired on December 1st, and since that time Miss E. Lee has been on duty.

One thousand, two hundred and thirty-six visits were made to babies and 249 to pre-school children.

#### VICTORIAN ORDER OF NURSES

|                                    | 1946 | 1945 | 1944  | 1943  | 1942  |
|------------------------------------|------|------|-------|-------|-------|
| Pre-natal visits .....             | 198  | 422  | 545   | 347   | 399   |
| Obstetrical (nursing care) .....   | 0    | 8    | 19    | 87    | 77    |
| Obstetrical (advice) .....         | 1333 | 1182 | 1147  | 1157  | 693   |
| Newborn (nursing care) .....       | 657  | 559  | 666   | 743   | 453   |
| Newborn (health supervision) ..... | 1796 | 1654 | 1373  | 1287  | 857   |
| Pre-natal clinics .....            | 49   | 51   | 49    | 46    | 49    |
| Total attendance .....             | 577  | 768  | 982   | 658   | 500   |
| Average attendance .....           | 12   | 15   | 20    | 14    | 10    |
| Mothers enrolled .....             | 115  | 136  | ..... | ..... | ..... |



## HEALTH INSPECTIONS

## INSPECTIONS:

|                                               | 1946   | 1945   |
|-----------------------------------------------|--------|--------|
| Dwellings .....                               | 1,048  | 9,479  |
| Hotels, lodging houses, apartment blocks..... | 936    | 1,147  |
| Schools, blocks, public buildings .....       | 15     | 38     |
| Stores, business establishments .....         | 769    | 965    |
| Food handling establishments .....            | 2,948  | 2,598  |
| Garbage cans, etc. ....                       | 903    | 1,970  |
| Streets, lanes, yards, dumps, etc.....        | 924    | 2,186  |
| Miscellaneous .....                           | 2,662  | 3,188  |
|                                               | 10,205 | 21,571 |
| Re-inspections .....                          | 571    | 4,552  |
| Visits assisting quarantine officer .....     | 860    | 55     |

## NOTICES:

|               |       |       |
|---------------|-------|-------|
| Written ..... | 819   | 2,042 |
| Verbal .....  | 2,464 | 4,895 |
| Garbage ..... | 491   | 1,038 |

## COMPLAINTS:

|                                       |     |     |
|---------------------------------------|-----|-----|
| Received from public .....            | 648 | 602 |
| Justified .....                       | 601 | 565 |
| Received from other departments ..... | 10  | 27  |
| Referred to other departments .....   | 74  | 52  |

The complaints were made up as follows:

|                                      |     |     |
|--------------------------------------|-----|-----|
| Garbage, streets, lanes, etc.....    | 233 | 186 |
| Vermin .....                         | 65  | 147 |
| Housing, plumbing and drainage ..... | 230 | 190 |
| Food and drink .....                 | 40  | 29  |
| Miscellaneous .....                  | 80  | 50  |

## LICENSES:

|                                         |       |       |
|-----------------------------------------|-------|-------|
| License applications investigated ..... | 2,660 | 2,392 |
|-----------------------------------------|-------|-------|

## PLUMBING:

|                                                          |       |       |
|----------------------------------------------------------|-------|-------|
| Sewer and water notices issued .....                     | 9     | 7     |
| Sewer and water installed, buildings removed, etc.....   | 14    | 35    |
| Extension of time granted .....                          | 20    | 30    |
| Plumbing permits issued .....                            | 1,603 | 1,244 |
| Plumbing permits issued for old buildings .....          | 33    | 44    |
| Alterations to existing plumbing (fixtures).....         | 631   | 1,232 |
| Privies eliminated through installation of plumbing..... | 33    | 44    |
| Number of septic tanks installed.....                    | 8     | 5     |

**DISINFESTING STATION:**

|                                       |       |       |
|---------------------------------------|-------|-------|
| Baths .....                           | 3,797 | 4,005 |
| Verminous .....                       | 7     | ....  |
| Scabies .....                         | 413   | 409   |
| Disinfested .....                     | 413   | 411   |
| No. of Men Washing Clothes .....      | 2,564 | 2,504 |
| Units Washed .....                    | 7,743 | 7,206 |
| Articles sterilized for the Army..... | 65    | 2,425 |

**SCAVENGING CLEAN-UP WORK**

|                                                        |        |       |
|--------------------------------------------------------|--------|-------|
| Refuse removed during Clean-up Week (cubic yards)..... | 10,850 | 8,140 |
|--------------------------------------------------------|--------|-------|

**ANIMALS, BARNS, STYES:**

|                       |     |     |
|-----------------------|-----|-----|
| Cow owners .....      | 209 | 392 |
| Hog owners .....      | 89  | 103 |
| Goat owners .....     | 39  | 38  |
| Fur Farm owners ..... | 84  | 64  |

**FOOD:**

|                                                  |         |       |
|--------------------------------------------------|---------|-------|
| Samples submitted to Provincial Laboratory ..... | 25      | 12    |
| Foodstuffs condemned (lbs) .....                 | 279,710 | 1,588 |

**WATER:**

|                           |    |      |
|---------------------------|----|------|
| Water samples taken ..... | 23 | 14   |
| Negative .....            | 11 | 14   |
| *Positive .....           | 11 | 3    |
| *Suspicious .....         | 1  | .... |
| Wells chlorinated .....   | 3  | 2    |
| Wells placarded .....     | 2  | 1    |
| Ice samples .....         | 1  | 2    |

\*—Wells condemned or further samples taken after chlorination.

**HOUSING:**

There were 1,048 dwellings and 936 hotels, lodging houses, apartment blocks, etc. checked for vermin, overcrowding and other insanitary conditions. Notices were issued where necessary.

**POISON GAS FUMIGATION:**

The use of DDT for destruction of vermin has greatly reduced the use of hydrocyanic acid gas for this purpose. In only sixty cases was the gas employed during the year.

**ENFORCEMENT OF REGULATIONS:**

|                    |   |   |
|--------------------|---|---|
| Prosecutions ..... | 0 | 3 |
|--------------------|---|---|

## FOOD INSPECTION

## MEATS INSPECTED AND CONDEMNED

## Beef:

|                                                      | 1946  | 1945   | 1944   |
|------------------------------------------------------|-------|--------|--------|
| No. of carcasses inspected .....                     | 3,026 | 2,623  | 3,206  |
| Carcasses condemned .....                            | 10    | 37     | 26     |
| Portions condemned .....                             | 249   | 189    | 293    |
| Weight (lbs.) of carcasses and portions condemned... | 8,675 | 19,960 | 19,285 |

## Veal:

|                                                      |       |       |       |
|------------------------------------------------------|-------|-------|-------|
| No. of carcasses inspected .....                     | 2,275 | 2,075 | 2,137 |
| Carcasses condemned .....                            | 2     | 3     | 5     |
| Portions condemned .....                             | 49    | 32    | 55    |
| Weight (lbs.) of carcasses and portions condemned... | 940   | 1,245 | 1,640 |

## Mutton:

|                                                      |       |       |       |
|------------------------------------------------------|-------|-------|-------|
| No. of carcasses inspected .....                     | 1,348 | 1,634 | 1,850 |
| Carcasses condemned .....                            | 3     | 13    | 17    |
| Portions condemned .....                             | 65    | 59    | 102   |
| Weight (lbs.) of carcasses and portions condemned... | 270   | 815   | 1,130 |

## Pork:

|                                                      |        |        |        |
|------------------------------------------------------|--------|--------|--------|
| No. of carcasses inspected .....                     | 3,304  | 4,656  | 3,721  |
| Carcasses condemned .....                            | 65     | 58     | 57     |
| Portions condemned .....                             | 986    | 1,399  | 978    |
| Weight (lbs.) of carcasses and portions condemned... | 24,765 | 28,305 | 22,710 |

## Totals:

|                                                      |        |        |        |
|------------------------------------------------------|--------|--------|--------|
| No. of carcasses inspected.....                      | 9,953  | 10,988 | 10,914 |
| Carcasses condemned .....                            | 80     | 111    | 105    |
| Portions condemned .....                             | 1,349  | 1,679  | 1,428  |
| Weight (lbs.) of carcasses and portions condemned... | 34,650 | 50,325 | 44,765 |

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

## Beef:

|                |      |      |      |
|----------------|------|------|------|
| Infected ..... | 11   | 13   | 8    |
| Percent .....  | .363 | .495 | .230 |

## Pork:

|                |       |       |       |
|----------------|-------|-------|-------|
| Infected ..... | 565   | 712   | 524   |
| Percent .....  | 17.10 | 15.29 | 14.08 |

## CHIEF CAUSES OF CONDEMNATION, 1946

## Beef:

|                                                                        | Carcasses | Portions | Weight<br>Lbs. |
|------------------------------------------------------------------------|-----------|----------|----------------|
| Abscess .....                                                          |           | 84       | 1,010          |
| Actinomycosis .....                                                    | 1         | 85       | 2,245          |
| Adhesions .....                                                        |           | 12       | 180            |
| Bruised .....                                                          | 6         | 6        | 3,030          |
| Parasites .....                                                        |           | 34       | 365            |
| Tuberculosis .....                                                     |           | 12       | 220            |
| Jaundice .....                                                         |           | 14       | 165            |
| Miscellaneous (emaciation, parturition,<br>not bled, stomatitis) ..... | 3         | 2        | 1,460          |
|                                                                        | 10        | 249      | 8,675          |

| Veal:                                                | Carcasses | Portions | Weight<br>Lbs. |
|------------------------------------------------------|-----------|----------|----------------|
| Abscess .....                                        | ....      | 18       | 190            |
| Actinomycosis .....                                  | ....      | 9        | 135            |
| Parasites .....                                      | ....      | 12       | 120            |
| Bruised .....                                        | 1         | 5        | 385            |
| Miscellaneous (adhesions, jaundice, immaturity)..... | 1         | 5        | 110            |
|                                                      | 2         | 49       | 940            |

**Mutton:**

|                   |      |      |     |
|-------------------|------|------|-----|
| Parturition ..... | 2    | .... | 135 |
| Parasites .....   | .... | 65   | 85  |
| Not bled .....    | 1    | .... | 50  |
|                   | 3    | 65   | 270 |

**Pork:**

|                                                                                            |      |      |        |
|--------------------------------------------------------------------------------------------|------|------|--------|
| Adhesions .....                                                                            | 4    | 37   | 1,080  |
| Abscess multiple .....                                                                     | 13   | 3    | 2,590  |
| Arthritis .....                                                                            | 11   | .... | 1,675  |
| Bruised .....                                                                              | 3    | 29   | 1,125  |
| Contamination .....                                                                        | .... | 64   | 1,035  |
| Parasites .....                                                                            | .... | 133  | 290    |
| Tuberculosis .....                                                                         | 8    | 710  | 11,965 |
| Pneumonia .....                                                                            | 16   | .... | 2,900  |
| Rhinitis .....                                                                             | 3    | 6    | 560    |
| Miscellaneous (abscess, peritonitis, bull nose<br>pneumonia, septicaemia, infection) ..... | 7    | 4    | 1,545  |
|                                                                                            | 65   | 986  | 24,765 |

**DISEASED ANIMALS**

|                                      |        |        |        |
|--------------------------------------|--------|--------|--------|
|                                      | 1946   | 1945   | 1944   |
| Beef .....                           | 227    | 164    | 238    |
| Veal .....                           | 38     | 26     | 48     |
| Mutton .....                         | 63     | 22     | 102    |
| Pork .....                           | 788    | 770    | 674    |
| Total amount of meat condemned ..... | 34,650 | 50,325 | 44,765 |

**FOODSTUFFS CONDEMNED BY INSPECTORS**

|                            |         |       |       |
|----------------------------|---------|-------|-------|
| Canned goods .....         | 111     | 15    | ....  |
| Fruit and vegetables ..... | 3       | 154   | 105   |
| Meat .....                 | 256     | ....  | 61    |
| Fish .....                 | ....    | 1,140 | ....  |
| Poultry .....              | 198     | 250   | 193   |
| Cheese .....               | 2       | ....  | ....  |
| Damaged by Fire .....      | 279,133 | ....  | 2,424 |
| Sundries .....             | 7       | 29    | 80    |
| Total (lbs.) .....         | 279,710 | 1,588 | 2,863 |

## DAIRY INSPECTION

1946

|                                                            |        |
|------------------------------------------------------------|--------|
| Certificates issued Producer-distributors, raw milk.....   | 15     |
| Certificates issued Producer-shippers, milk .....          | 285    |
| Certificates issued Producer-shippers, cream .....         | 36     |
| Certificates issued Pasteurization Plants .....            | 5      |
| Inspections of Producer-distributors and Dairies .....     | 79     |
| Inspections of Producer-shippers' Dairies .....            | 1,105  |
| Inspection of Pasteurization Plants .....                  | 54     |
| New Dairy Barns erected .....                              | 18     |
| Dairy Barns remodelled .....                               | 4      |
| New Milk Houses erected .....                              | 21     |
| Certificates suspended temporarily .....                   | 125    |
| Certificates suspended indefinitely .....                  | .....  |
| Applications for certificates of registration refused..... | .....  |
| Certificates issued to retail distributors .....           | 381    |
| Permits issued to cowkeepers in the city.....              | 209    |
| Reduction tests, milk .....                                | 12,877 |
| Reduction tests, cream .....                               | 52     |
| Sediment tests .....                                       | 769    |
| Butterfat tests .....                                      | 784    |
| Phosphatase tests .....                                    | 279    |
| Bacterial plate counts, milk .....                         | 465    |
| Bacterial plate counts, ice cream .....                    | 52     |
| Chlorine tests at dairy farms .....                        | 30     |
| Well water samples taken at dairy farms.....               | .....  |
| Milk can condemned .....                                   | .....  |
| Written notices to dairy premises .....                    | 125    |
| Educational circulars to cream producer-shippers.....      | .....  |
| Prosecutions .....                                         | .....  |

During 1946 the number of producer-distributors of raw milk decreased from fifteen to twelve.

## LABORATORY REPORT

Laboratory control work and plant inspection has been carried on much as in previous years. Our demand for milk still seems to outrun our efforts to provide satisfactory supply.

There were 776 retail milk samples taken during the year, all of which were examined for butterfat content, solids not fat, sediment and flavor. Methylene Blue reductive tests were also carried out on all these samples and over half submitted to test for bacteria count. On these exceeding 50,000, duplicate samples were taken within a short time for re-count. The pasteurized milk samples were also examined at least twice a month by the phosphatase test. A summary of the results obtained is given in the following tables.

Table No. 1. Retail Milk Samples—Bacteria Counts

|                  | Special | 15,000/<br>40,000 | 40,000/<br>100,000 | 100,000/<br>300,000 | Over | Spreader | Total |
|------------------|---------|-------------------|--------------------|---------------------|------|----------|-------|
| January .....    | 31      | 6                 | 2                  | ....                | .... | 1        | 40    |
| February .....   | 31      | 5                 | 5                  | ....                | .... | 1        | 42    |
| March .....      | 20      | 13                | 9                  | 5                   | .... | ....     | 47    |
| April .....      | 25      | 9                 | 6                  | ....                | 3    | ....     | 43    |
| May .....        | 25      | 12                | 2                  | ....                | 2    | ....     | 41    |
| June .....       | 30      | 6                 | 3                  | 3                   | 1    | ....     | 43    |
| July .....       | 30      | 3                 | 3                  | ....                | .... | ....     | 36    |
| August .....     | 22      | 11                | 7                  | 1                   | .... | 1        | 42    |
| September .....  | 9       | 6                 | 1                  | 2                   | 1    | ....     | 19    |
| October .....    | 26      | 10                | 2                  | ....                | .... | ....     | 38    |
| November .....   | 20      | 9                 | 9                  | 2                   | .... | ....     | 40    |
| December .....   | 24      | 6                 | 3                  | 1                   | .... | ....     | 34    |
|                  | 293     | 96                | 52                 | 14                  | 7    | 3        | 465   |
| Percentage ..... | 63.4    | 20.8              | 11.3               | 3                   | 1.5  |          | 100   |

The three results lost by the growth of spreaders are excluded in calculating the percentage in each group.

These results are also shown broken down into the different groupings in the following tables:

Table No. 2

|                   | Special  | 15,000/<br>40,000 | 40,000/<br>100,000 | 100,000/<br>300,000 | Over   | Spr. | Total |
|-------------------|----------|-------------------|--------------------|---------------------|--------|------|-------|
| Raw Milk.....     | 85-42.1% | 57-28.2%          | 44-21.8%           | 12- 5.9%            | 4-2.0% | 1    | 203   |
| Pasteurized ..... | 121-80.6 | 25-16.6           | 2- 1.3             | 1- .67              | .....  | 1    | 150   |
| Jersey .....      | 31-75.5  | 6-14.7            | 3- 7.4             | .....               | 1-2.4  | ..   | 41    |
| Homogenized ....  | 56-78.9  | 8-11.2            | 3- 4.3             | 1-1.4               | 2-2.8  | 1    | 71    |
|                   | 293      | 96                | 52                 | 14                  | 7      | 3    | 465   |

Table No. 3

|                                      | Number | Average |
|--------------------------------------|--------|---------|
| Retail samples, butterfat .....      | 776    | 3.74 %  |
| Retail samples, solids not fat ..... | 776    | 8.60 %  |
| Retail samples, sediment .....       | 769    | 9.4 %   |
| Special creams—butterfat .....       | 30     | 10.03 % |
| Special milks—butterfat .....        | 82     | 3.53 %  |
| Chocolate Milks, butterfat .....     | 83     | 2.29 %  |
| Phosphatase tests .....              | 279    |         |

Special samples were taken for the army supply depot and for one of the railways and given the usual tests. As the military authorities attach considerable importance to the test for coliform organisms this test was done on all their samples. The results are as listed:

Table No. 4, Bacteria Counts—Special Milks and Creams

|                                         |                        |
|-----------------------------------------|------------------------|
| Special Creams .....                    | 30-12 in Special Class |
| Special Milks .....                     | 96-53 in Special Class |
| Chocolate Milks .....                   | 83-58 in Special Class |
| Ice Cream .....                         | 52-12 in Special Class |
| Rinse Bottles .....                     | Nil                    |
| Special Milks, coliform organisms ..... | 55                     |

The major portion of the work is still the control of the raw milk as received at the dairy plants. The number of shippers and number of samples are still increasing. Due to the necessity of taking on many producers not previously under supervision and also to the fact that due to recurring milk shortages, we have been forced to carry on with shippers who would normally be suspended. The number of tests under the required 5½ hours has considerably increased. The results of the methylene blue tests both on these plant and retail samples are as listed.

Table No. 5—Methylene Blue Tests

|                       | Number | Under 5½ Hours |
|-----------------------|--------|----------------|
| Producer's Milk ..... | 13,161 | 1,242          |
| Retail Samples .....  | 794    | .....          |
| Special Tests .....   | 51     | .....          |

Regular inspection and supervision has been given as previously to the operation of the swimming pools, both City and privately owned. Test solutions and apparatus have been made up and supplied as needed and samples of the water and occasionally of the sterilizing agents taken for examination. There were 182 samples of pool water examined from city pools of which 31 failed to meet the accepted bacterial standard. (This does not constitute a failure in compliance as under the standards used a certain small proportion are allowed to exceed the maximum if they are not closely recurrent.) In 9 samples the examination was spoiled by the growth of spreaders. There were 85 samples taken from the private pools of which 13 gave counts below standard. None of the samples showed presence of coliform organisms in amounts tested.

Samples of tap water were examined for us almost daily by the Provincial Laboratory. Out of 275 samples so tested, 230 gave counts of 10 or under while only 6 gave over 50. Daily checks were made on the chlorine in the water and the close collaboration was maintained with the water treatment at all times.

Occasional visits have been made to the various sewage plants which have been carrying on satisfactorily.

Table 1. Laboratory Results of the Patients in the Study

| Parameter             | Normal Range | Patients (n=10) |
|-----------------------|--------------|-----------------|
| Glucose (mg/dl)       | 70-100       | 80-120          |
| Insulin (mU/L)        | 5-20         | 10-30           |
| C-peptide (pmol/L)    | 0.5-2.0      | 0.8-1.5         |
| HbA1c (%)             | 4.0-5.6      | 6.0-8.0         |
| Urine Glucose (mg/dl) | 0            | 10-50           |
| Urine Ketones (mg/dl) | 0            | 0-10            |

The mean values of the parameters of the study are shown in Table 1. The mean values of the parameters of the study are shown in Table 1. The mean values of the parameters of the study are shown in Table 1. The mean values of the parameters of the study are shown in Table 1. The mean values of the parameters of the study are shown in Table 1.

Table 2. Laboratory Results of the Patients in the Study

The mean values of the parameters of the study are shown in Table 2. The mean values of the parameters of the study are shown in Table 2. The mean values of the parameters of the study are shown in Table 2. The mean values of the parameters of the study are shown in Table 2. The mean values of the parameters of the study are shown in Table 2.

The mean values of the parameters of the study are shown in Table 3. The mean values of the parameters of the study are shown in Table 3. The mean values of the parameters of the study are shown in Table 3. The mean values of the parameters of the study are shown in Table 3. The mean values of the parameters of the study are shown in Table 3.

The mean values of the parameters of the study are shown in Table 4. The mean values of the parameters of the study are shown in Table 4. The mean values of the parameters of the study are shown in Table 4. The mean values of the parameters of the study are shown in Table 4. The mean values of the parameters of the study are shown in Table 4.

The mean values of the parameters of the study are shown in Table 5. The mean values of the parameters of the study are shown in Table 5. The mean values of the parameters of the study are shown in Table 5. The mean values of the parameters of the study are shown in Table 5. The mean values of the parameters of the study are shown in Table 5.



