

CANADA

THE DEPARTMENT OF NATIONAL HEALTH AND WELFARE

# ANNUAL REPORT

FOR THE FISCAL YEAR ENDED MARCH 31

# 1959

The Queen's Printer and Controller of Stationery Ottawa, 1959 To His Excellency the Right Honourable Vincent Massey, C.H., Governor General and Commander-in-Chief of Canada.

MAY IT PLEASE YOUR EXCELLENCY:

The undersigned has the honour to present to Your Excellency the Annual Report of the Department of National Health and Welfare for the fiscal year ended March 31, 1959.

Respectfully submitted,

J. WALDO MONTEITH, Minister of National Health and Welfare.

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### To the Honourable J. Waldo Monteith, F.C.A., M.P., Minister of National Health and Welfare, Ottawa.

SIR:

We take pleasure in submitting this report of the Department's activities for the fiscal year 1958-59.

The period under review witnessed important progress in all three areas of departmental responsibility. As in the previous year, the main developments on the health side pertained to implementation of the Hospital Insurance and Diagnostic Services Act. On June 26, 1958, Royal Assent was accorded an amendment to the Act, permitting payment of federal funds as of July 1 to any province having signed an Agreement with the Federal Government and having a plan in operation on that date. Programs were initiated in five provinces on Dominion Day. These were British Columbia, Alberta, Saskatchewan, Manitoba and Newfoundland. Two others—Ontario and Nova Scotia—were in a position to commence operations on January 1, 1959. The orderly manner in which this very complicated measure was brought into being in a large part of the country is a tribute to the excellent co-operation which has been developed over the years among Canadian health authorities.

A second important development in the Department's health activities was the increase in federal assistance under the Hospital Construction Grant. Introduced near the end of the previous fiscal year, this re-enforcement and extension of financial aid to the provinces appears to have been helpful in the provision of adequate hospital facilities throughout Canada. A measure of its effect was evident in the fact that federal approvals under the Grant during 1958-59 increased by more than \$17 million as compared with 1957-58, and covered an all-time high of 12,000 new beds or their equivalents.

Increased federal outlays were also apparent in the major welfare measures administered by the Department. Amounting to over \$100 million, these increases reflected the impact of the first full year of higher levels of benefit initiated during 1957-58 in Old Age Security, Old Age Assistance, Blind Persons Allowances and Disability Allowances, as well as the broader base of federal participation in provincial-municipal Unemployment Assistance payments.

A comprehensive survey of our income maintenance programs for the aged and handicapped, together with a comparison between Canadian programs and corresponding measures in the United States, was completed as the year drew to a close. Prepared by Dr. Robert M. Clark of the University of British Columbia, this survey was tabled in Parliament on March 5, 1959 and referred to departmental and other government officials for study.

On the matter of Civil Defence, a significant realignment of responsibilities was announced by the Prime Minister on March 23, 1959. Affecting both the purely federal structure and the federal-provincial partnership, the proposed new arrangements stemmed from an intensive reappraisal of measures to protect our civilian population against possible nuclear attack. Considered in this regard were recommendations presented by Lt.-Gen. Howard D. Graham, former Chief of Staff of the Canadian Army, who in June 1958 had been assigned the task of surveying "all aspects of Canada's Civil Defence policy and program". In general terms, the new arrangements will allot to the Federal Government responsibility for certain highly technical and dangerous tasks associated with possible nuclear attack, and to the provinces and municipalities those functions which they normally perform in peacetime and for which they are better equipped by knowledge and experience than the federal authority. This Department will continue to assist the provinces in all matters relating to Civil Defence health and welfare services, while other federal functions will be distributed among the Department of National Defence, the Royal Canadian Mounted Police, and the Emergency Measures Organization in the Privy Council Office, the latter taking over liaison with the provinces as well as co-ordination of the Civil Defence effort. The federal share of approved projects under the Financial Assistance Program will be raised from 50 to 75 per cent of provincial-municipal outlays. On March 26, as the fiscal year under review approached its end, the Prime Minister communicated with provincial premiers, suggesting a joint conference in April to discuss the federal proposals.

In concluding this letter of transmittal, we would draw attention to the contribution made by the staff of the Department. Their loyalty and devotion to duty have played a large part in what has been achieved in the period covered by this report.

# Respectfully submitted,

## G. D. W. CAMERON, Deputy Minister of National Health and Welfare (Health)

## G. F. DAVIDSON,

G. F. DAVIDSON, Deputy Minister of National Health and Welfare (Welfare)

# Ottawa, Canada. 0012 tovo el gnimuon A treathered off vo borotsininist

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## HEALTH BRANCH

# INTRODUCTION

From time to time, foreign visitors to the Department of National Health express surprise and some difficulty in understanding the lack of authority of the Department in what seem to be many of the most important fields of the public health, such as control of hospitals, control and licensure of medical practice, medical education or even the provision on the local level of services ordinarily spoken of as "public health" services. How can a Federal Government agency carrying so little authority exercise effective control or maintain standards over a wide range of health activities on a national basis?

The answer, of course, is that there is very little federal control of any kind exercised and then only in those limited areas which must of necessity be considered in a national rather than a provincial or local context. While the Department is therefore charged by statute with the responsibility of administering certain Acts and executive orders, the real authority and responsibility in most fields of health falls to the provinces.

This is not to say, however, that the Department of National Health exercises no effective influence in the broad national sphere of health services and medical care. Indeed, the concept of virtual provincial sovereignty which our friends from abroad find so illogical or even confusing in contrast to their own organization, may free the Federal Department in Canada of many administrative responsibilities and details which, in a country of such vast extent, can be most satisfactorily dealt with on a regional or local level. In other words, the Department's resources can, to a maximum extent, be devoted to promotion, financial and technical assistance and co-ordination of the programs of the various provinces.

This is essentially the part the Department plays in Canadian health and in the pages which follow, the reports on activities of the various directorates and divisions will illustrate this constant trend toward central co-ordination and decentralized executive authority. Those functions which are based on statutory responsibility are clearly indicated. For the remainder, the reader will readily discern the relative emphasis placed on promotion of adequate standards, technical or financial assistance or co-ordination of provincial activities.

An excellent example of the last is presented by the Dominion Council of Health, representative not only of all the provincial health departments but of influential bodies such as organized labour and women's organizations as well, which meets semi-annually under the chairmanship of the Deputy Minister to advise the Minister on health matters of national concern. To the Council's agenda are brought not only matters which demand central planning or executive action but also a host of local problems which, while they may or may not be common to many or all the provinces, can be discussed with benefit and frequently resolved in a uniform manner.

The Canadian Council on Nutrition and Maternal and Child Health Advisory Committee are further examples of the co-ordinating influence of the Department in providing forums to which may be brought matters of general interest, opportunities for discussion and a valuable source of specialist counsel and recommendations in special fields of health.

The relative uniformity achieved in the Hospital Insurance plans of seven of the provinces which were instituted during the year and the continued successful promotion of the polio immunization program for all provinces demonstrate clearly how central co-ordination can effectively assist local executive action in achieving advances and better standards of national health.

There have been no outstanding new developments in Public Health within the year. The formal acceptance by seven of the provinces of the Federal Government's offer to participate in the costs of Hospital Insurance Plans perhaps marks a noteworthy milestone on the long road to better medical care for more Canadians. On the whole, the plans are being inaugurated with a minimum of confusion and disruption of traditional organization. The benefits of careful and effective preliminary planning are, of course, now apparent and generally the transition is taking place quietly and smoothly.

Appended is a breakdown of the total estimates for the Health Branch for the year under review as well as the preceding year, for purposes of comparison.

As usual over one half of the Department's annual budget is devoted to Health Grants and financial assistance to provincial programs. Nearly a third is devoted to health care for Indians and Eskimos and public health services to unorganized territories—still unable to provide them from local resources. While statutory obligations consumed almost 10 per cent of the total budget the administration of the Branch was accomplished at the modest cost of 0.3 per cent of total estimates.

### NATIONAL HEALTH BRANCH ESTIMATES

| For 19  | 958-59 and 19                              | 57-58      |   |            |
|---|--|------------|---|------------|
|   | 1958-59                                    | Percentage | 1957-58                                     | Percentage |
| Sick Mariners Treatment Services.<br>Public Health Engineering.   | he Departm<br>nris on zotivi<br>tant trend |            | essentially<br>which follo<br>II illustrate |            |
| Administration of the Food and<br>Drugs and the Proprietary or<br>Patent Medicine Acts.<br>Administration of the Opium and<br>Narcotic Drugs Act. |  |            |   |            |
| Epidemiology.<br>Special Technical Services   | the chairm                                 |            |   | 3.2        |
| MISCELLANEOUS GRANTS  | 212,450                                    | 0.3        | 182,450                                     | 0.3        |
| GENERAL HEALTH GRANTS   | 48,000,000                                 | 58.8       | 38,250,000                                  | 55.5       |
| INDIAN HEALTH SERVICES  | 20,723,423                                 | 25.3       | 20,053,723                                  | 29.0       |
| NORTHERN HEALTH SERVICES  | 3,025,444                                  | 3.7        | 1,380,994                                   | 2.0        |
| Administration  | 230,370                                    | 0.3        | 196,602                                     | 0.3        |
|   | \$81,677,130                               | 100.0      | \$68,942,356                                | 100.0      |

The screening of food colours for possible toxic properties continues. During the year, studies on Guinea green, Benzyl violet and Brilliant Blue were completed and tests on Erythrosine, Fast Green and Ponceau 3R were commenced.

Reports that Citral, a constituent of citrus fruits, causes a significant increase in intraocular pressure in rabbits were not confirmed in this laboratory.

Commercial samples of proteolytic enzymes (trypsin, chymotrypsin and thrombin) have been assayed using new synthetic substrates and an improved spectrophotometric procedure which have significantly increased their precision. The activation of trypsin and thrombin by various quaternary ammonium compounds also has been investigated.

#### **Physiology and Hormones**

The results of a two-year stability test have indicated that insulin did not lose activity during this period of time when stored at refrigerator temperature. However, at room temperature or above, within one year, the potency fell well below that declared on the label. Studies were continued on the biological activity of recently-developed anti-inflammatory steroids such as dexamethasone and triamcinolone acetonide which are used for the treatment of rheumatoid arthritis, rheumatic fever, inflammatory diseases of the eye, and allergic skin diseases.

Biological assays of toxic shell-fish extracts were carried out in collaboration with the United States Public Health Service. At the request of the National Institutes of Medical Research in London, England, a collaborative assay was undertaken to determine the potency of the proposed International Standard for prolactin, a lactogenic hormone.

#### Vitamins and Nutrition

Particular emphasis this year has been placed on nutritional problems and on studies of the availability to the human body of vitamins and drugs in oral preparations. Also, as a result of emphasis in food advertising, criteria have been established for the regulation of claims made for the protein content of foods.

The rate of release of vitamins and other drugs in sustained release and other timed disintegrating preparations was studied by giving small doses to human subjects and determining the rate at which the drug was excreted in the urine. These studies have shown that there are marked differences in the sustained release properties and physiological availability of the drugs in various forms of these products presently on the market.

### INDIAN AND NORTHERN HEALTH SERVICES DIRECTORATE

#### Role

The function of this Directorate has been to provide or arrange essential medical care for those Indians and Eskimos who still require assistance in this aspect of their welfare. A vigorous program of public health care has been provided those groups pursuing the native way of life so that they may be abreast of their neighbours in this respect. Activity has been restricted to these aspects of health since general welfare and education of Indians is a function of Indian

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Affairs Branch of the Department of Citizenship and Immigration while the Northern Administration Branch of the Department of Northern Affairs and National Resources performs these functions for the Eskimo.

In the Yukon and Northwest Territories, the Directorate has acted as an interim department of health since the governing bodies of these areas have not yet developed such health agencies.

#### Populations

A census of Indians is taken each five years. The latest was in 1954 and recorded 151,558 persons of Indian status. It was estimated that at the end of 1958 the population on Indian registers would be 174,000. The latest Eskimo census was in 1951 and recorded 9,500. It is estimated that in 1958 the figure would be 11,300 or a total for the two native peoples in 1958 of some 185,300.

The population of the Yukon and Northwest Territories was about 32,600 of which 6,300 would be Indian, 9,300 Eskimo and 17,000 others.

#### Organization

In addition to the Head Office in Ottawa, the Directorate has regional offices at Vancouver, Edmonton, Regina, Winnipeg and Ottawa. Regions are subdivided into zones following practical geographic, population and communication principles. The total establishment was for 2,311 positions of which 604 were for graduate nurses, 106 for medical officers, 20 for dental officers and 38 for senior administrative officers. There were in operation 17 hospitals each exceeding 20 beds, 41 nursing stations with 4 to 10 beds and 108 health centres wherein professional staff carried out a treatment and health program but no bedside care (Tables 1, 2). These facilities composed a skeleton which rounded out by arrangements with some 2,000 physicians, 200 dentists and 750 hospitals. Close co-operation was maintained with the public health agencies of each province with reciprocal services wherever practical. This organization was further augmented by the provision of suitable supplies close to each native community and an arrangement with some skilled person to dispense these. This honoured the one written agreement which was to provide a chest of medicines at the residence of each agent.

#### Activities 1958

In addition to extensive improvements to existing facilities, former nursing stations were fully replaced at Onion Lake in Saskatchewan and St. Therese's Point on Island Lake in Manitoba. A new station was completed at Cambridge Bay on Victoria Island in the Western Arctic. Previous case finding activities were maintained through 27 separate surveys covering the out-of-the-way groups. Some 109,000 x-ray films were taken by these teams, including nearly 14,000 on persons other than native status. Through these films, 539 cases of active tuber-culosis were detected amond Indians and Eskimos and six cases among the others (Table 3). The teams carried out all essential treatment and as much preventive work as circumstances would permit. Among other procedures, some 68,000 inoculations against poliomyelitis were given and 9,300 individuals, mostly infants, were given the Bacillus Calmette-Guérin vaccine to enhance resistance to tuber-culosis.

#### DEPARTMENT OF NATIONAL HEALTH AND WELFARE

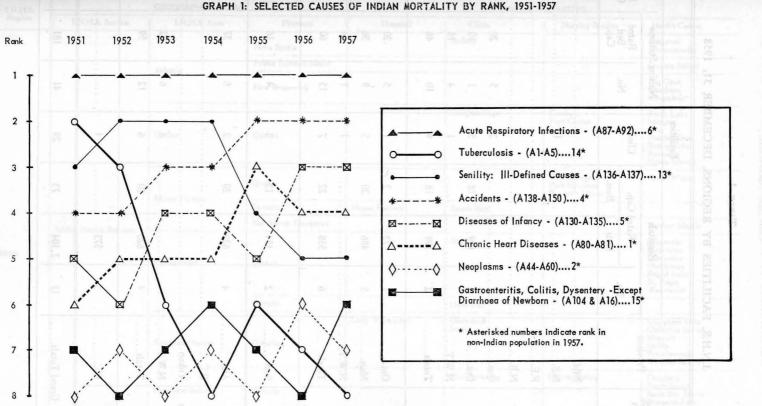
In addition to the disorders discovered and dealt with by the mobile units, an increasing case-finding program was maintained by the departmental treatment centres and the physicians who provide services by arrangement. These activities yielded another 689 cases of active tuberculosis among Indians and Eskimos for a total of 1,228 new cases for the year. This is but a few less than the previous year but the majority are detected a little earlier in the disease.

The latest vital statistics available are for 1957 and showed a death rate of 9.9 as compared to the national rate of 8.2 per thousand of population. There continued to be a regrettably high rate for the very young born in unfavourable environments. The birth rate continued high so that the net increase, allowing for enfranchisements (500 to 1,000 each year), continues to be 3 per cent, which is high for natural increase.

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Available data indicates clearly that the number of Indians and Eskimos under treatment for tuberculosis, which has been the most serious scourge, has declined steadily in the past few years with 4,400 under treatment in all of 1958 as compared with 5,200 in 1957 and 6,800 in 1956 (Table 4). Population trends alone point to increasing numbers under care for general conditions but actually tabulation was distored from July 1, 1958 when the Indians in Saskatchewan, Manitoba and Newfoundland came under Provincial Hospital Insurance Plans from which data were not available. As each province adopts a general insurance plan, the Indians have been included either by agreement or the payment through the Directorate of premiums where these are in effect. The inclusion of certain groups into prepaid medical care plans was explored and will be pursued. This has been consistent with the general policy to avoid distinctions between the Indian and Eskimo peoples and other citizens.

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## TABLE 1

|               |                              | Facilities |           |          |               |          |              |                  |  |  |
|---------------|------------------------------|------------|-----------|----------|---------------|----------|--------------|------------------|--|--|
| I.N.H.S.      | Province -                   | ristics i  | Hospitals | ana YorU | 957 Sta       | Nursing  |              |                  |  |  |
| Region        | r rovince –                  | No.        | Rate      | d Cap.   | Clinics       | No.      | Rated<br>Bed | Health<br>Centre |  |  |
|               | o be a regie<br>der The Merb | 140.       | Beds      | Bass.    | ary gia<br>   | 110.     | Cap.         | Centre           |  |  |
|               | Nfld                         |            |           | 0124 000 | inuce to      | pe 3 pe  |              |                  |  |  |
|               | N.S                          | 24         |           | 10       |               |          |              | 2                |  |  |
|               | P.E.I                        |            |           |          | 1             |          |              | 1                |  |  |
| Eastern       | N.B                          |            |           | 1.3.4    | 7             |          |              | 3                |  |  |
|               | Que                          |            |           |          | 2             | 5        | 20           | 15               |  |  |
|               | Ont                          | 2          | 199       | 18       | 5             | 21 P     | 10           | 11               |  |  |
|               | N.W.T                        |            | in and    | care fo  | <b>Bellen</b> | 4        | 16           | 1                |  |  |
|               | Totals                       | 2          | 199       | 18       | 9             | 10       | 46           | 33               |  |  |
| Central       | Ont                          | 1          | 72        | 2        | oben sent     | 5        | 20           | 5                |  |  |
|               | Man                          | 5          | 486       | 20       | 5             | 9        | 36           | 4                |  |  |
|               | N.W.T                        |            |           |          | d disting     | sons per | 4            |                  |  |  |
|               | Totals                       | 6          | 558       | 22       | 7             | 15       | 60           | 9                |  |  |
|               |                              |            | 1         | 320      |               |          |              | 9                |  |  |
| Sa <b>sk.</b> | Sask                         | 2          | 154       | 13       | 3             | 4        | 16           | 8                |  |  |
|               | Alta                         | 4          | 620       | 20       | 2             | 6        | 37           | 7                |  |  |
|               | B.C                          |            | Ş         |          |               |          |              | •••••            |  |  |
| Foothills     | Yukon                        |            |           | ·····    |               |          |              | 3                |  |  |
|               | N.W.T                        |            | §         |          | 4             | 6        | 22           | 3                |  |  |
| 있는            | Totals                       | 4          | 620       | 20       | 6             | 12       | 59           | 13               |  |  |
| Pacific       | B.C                          | 3          | 573       |          | 4             |          |              | 16               |  |  |
| Gr            | and Totals                   | 17         | 2,104     | 73       | 29            | 41       | 181          | 79               |  |  |

### I.N.H.S. FACILITIES BY REGIONS, DECEMBER 31, 1958

### TABLE 2

I.N.H.S. FACILITIES BY REGION, ZONE AND PROVINCE

| I.N.H.S.                      |                           | GEOGRAPHIC AREAS |                       |                                 | I.N.H.S. F   |  |   |
|-------------------------------|---------------------------|------------------|-----------------------|---------------------------------|--|--|---|
| Region                        | I.N.H.S. Service          | I.N.H.S. Zone    | Province              | Hospital                        | Clinic   | Nursing Station  | Health Centre   |
|                               | Lorise Works Services     |                  | Nova Scotia           |                                 | Sydney   | area).   | Eskasoni<br>Shubenacadie  |
|                               |                           | Atlantic         | Prince Edward Island  | Auto and                        | and the second s | August Lides   | Lennox Island   |
|                               | Indian Maple Sarvings     | Atlantic         | New Brunswick         | Blackfoot<br>Blood<br>Holdsroot | Haltheast  | Dictore<br>Company Lake  | Big Cove<br>Chatham<br>Kingsclear   |
|                               |                           | Cluster Centers  | Allanta               | Caurity Consult                 | Caughnawaga  | Bersimis<br>Fort Chimo   | Knob Lake<br>Mingan   |
|                               |                           | Quebec           | Quebec                |                                 | Lines Wind   | Fort a la Corne<br>Los la Fouge                                    | Oka<br>Pointe Bleue<br>Restigouche<br>Romaine   |
| ukatikewan Indan Hadhi Sarjia | success therein the later | North Bandelard  | Sector Manual Sector  | North Earlylaford.              | Planto Bunkeland   | Onion Late   | Seven Islands   |
|                               |                           | Moose Factory    | Quebec                |                                 |  | Fort George<br>Port Harrison<br>Rupert's House                     | Great Whale   |
|                               | Charles and the set       | Wioose Factory   | Ontario               | Moose Factory                   | James Bay  |  | Grands here   |
|                               | Indian Health Services    | Central          | Northwest Territories |                                 | Chemistration -  | Baller Laber   | Belcher Islands   |
|                               | Indian Treatin Services   | Hes by an error  | Manufacture           |                                 | Amos   |  | Maniwaki<br>Manowan   |
| Eastern                       |                           | Headquarter      | Quebec                | Chorvetta Lele                  | Un Dat   | Onlyad Hours,<br>M. Thereads Haint<br>Million Hause<br>Sills Lake. | Manowan<br>Mistassini<br>Obedjiwan<br>Rapid Lake<br>St. Regis<br>Waswanipi                |
|                               |                           | Marriery Marrier | Ontario               |                                 | Deseronto  | Garl's Later Number  |   |
|                               | India Vaditi Service      | Southern Ontario | Ontario               | Lady Willingdon                 | Ohsweken<br>Sarnia   | datady Lake<br>Little Grand Norge<br>Lattle Satistation on         | Chippewa Hills<br>Christian Island<br>Muncey<br>Orillia<br>Peterborough<br>Walpole Island |
|                               |                           | Northern Ontario | Ontario               | State Lashon                    | Manitowaning   | Manitowaning   | Chapleau<br>Parry Sound<br>Sault Ste. Mari<br>Sturgeon Falls                              |
|                               | TWITE Service             | For High Years   | 2 August              |                                 | CIMP .   | Municip Station  | Temiskaming   |
|                               | Northern Health Services  | Eastern          | Northwest Territories | CA' SOME MIND                   | Pangnirtung  | Cape Dorset<br>Fox<br>Frobisher Bay<br>Lake Harbour                |   |

| I.N.H.S.     |                          | GEOGRAPHIC AREAS  |                       | I.N.H.S. FACILITIES                       |                                     |  |  |  |  |  |  |
|--------------|--------------------------|-------------------|-----------------------|---|-------------------------------------|--|--|--|--|--|--|
| Region       | I.N.H.S. Service         | I.N.H.S. Zone     | Province              | Hospital                                  | Clinic                              | Nursing Station  | Health Centre  |  |  |  |  |
|              | E F                      | Sioux Lookout     | Ontario               | Sioux Lookout                             | Sioux Lookout                       | Big Trout Lake<br>Lac Seul<br>Lansdowne House<br>Pikangikum<br>Sandy Lake              | Fort Frances<br>Kenora<br>Nakina<br>Pickle Lake<br>Port Arthur   |  |  |  |  |
| Central      | Indian Health Services   | Southern Manitoba | Manitoba              | Brandon<br>Fisher River<br>Fort Alexander | Fisher River<br>Pine Falls          | Little Grand River<br>Little Saskatchewan  | Dauphin<br>Portage la Prairie<br>Sandy Bay   |  |  |  |  |
|              | Indian Health Services   | Norway House      | Manitoba              | Norway House                              | Norway House                        | Cross Lake<br>God's Lake Narrows<br>Island Lake<br>Oxford House<br>St. Therese's Point | geniterude<br>Griguni  |  |  |  |  |
|              |                          | The Pas           | Manitoba              | Clearwater Lake                           | The Pas                             | Nelson House<br>Split Lake   | Churchill  |  |  |  |  |
|              | 2 January Managers       | Headquarters      | Manitoba              |   | Winnipeg                            |  | Sound S.   |  |  |  |  |
|              | Northern Health Services | Central           | Northwest Territories |   | Chesterfield                        | Baker Lake   | Database Galacella "   |  |  |  |  |
|              | 2                        | Fort Qu'Appelle   | Saskatchewan          | Fort Qu'Appelle                           | Fort Qu'Appelle                     | Fort George<br>Port Harrison<br>Rupars a Heape   | Broadview<br>Kamsack<br>Punnichy<br>Rose Valley<br>White Bear Lake   |  |  |  |  |
| Saskatchewan | Indian Health Services   | North Battleford  | Saskatchewan          | North Battleford                          | North Battleford                    | Onion Lake   | Meadow Lake  |  |  |  |  |
|              | 8 - 10                   | Prince Albert     | Saskatchewan          | · · · · · · · · · · · ·                   | Prince Albert                       | Fort a la Corne<br>Lac la Ronge<br>Pelican Narrows                                     | Shellbrook<br>Uranium City   |  |  |  |  |
|              |                          | Charles Camsell   | Alberta               | Charles Camsell                           | Edmonton                            | Brinkan  | Alond Labo   |  |  |  |  |
|              | Indian Health Services   | Alberta           | Alberta               | Blackfoot<br>Blood<br>Hobberna            | Hobberna                            | Driftpile<br>Goodfish Lake<br>Hay Lake<br>Peigan<br>Saddle Lake<br>Stony               | Bonnyville<br>Calgary<br>Fort Chipewyan<br>Fort Vermilion<br>High Prairie<br>Rocky Mountain House<br>Wabasca |  |  |  |  |
| Foothills    | IMMS Swidow              | LNUS, Zoes        | 1 Prentinea           | Inuvik                                    | Aklavik<br>Fort Rae<br>Fort Simpson | Cambridge Bay<br>Coppermine<br>Fort Good Hope  | Fort Resolution<br>Inuvik<br>Providence  |  |  |  |  |
|              | Northern Health Services | MacKenzie         | Northwest Territories |   | Fort Smith                          | Fort McPherson<br>Fort Norman<br>Tuktoyaktuk   | 1 tovidence  |  |  |  |  |
|              |                          | Yukon             | Yukon                 | Whitehorse                                | ND PROVINCE                         |  | Dawson<br>Mayo<br>Whitehorse   |  |  |  |  |

#### I.N.H.S. FACILITIES BY REGION, ZONE AND PROVINCE-Concluded

| 10-1-4        |                      | 192    | Coqua   | lleetza          | Britis | h Columbia       | Coqual                          | eetza      | Sardis<br>Vancouver<br>Williams Lake  | 239        | (30)<br>(30) |           | Alexis Creek<br>Kamloops<br>Lillooet<br>Merritt<br>Mount Currie |       |
|---------------|----------------------|--------|---------|------------------|--------|------------------|---------------------------------|------------|---------------------------------------|------------|--------------|-----------|---|-------|
| Pacific       | Indian Health Ser    | rvices | Nanaimo |                  | Britis | British Columbia |                                 | ia Nanaimo |                                       | 126<br>403 | 504<br>195   | 62<br>166 | Alert Bay<br>Bella Coola<br>Duncan<br>Tofino                    | 9.537 |
| Pacific       | Tribility<br>Indiana | 36,    | Miller  | Bay              | Britis | h Columbia       | Miller                          | 100        | Miller Bay                            | 10         | 1 168        | 508       | Aiyansh<br>Fort St. John<br>Greenville<br>Hazelton<br>Massett   | 1(32) |
| Fuellilla     | Indiana              | 26.    |         |                  | -4 220 |                  | in the                          |            | i de                                  |            | 126          |           | Port Simpson<br>Vanderhoof                                      |       |
| Sedentchenter | Indianger            | 20,    | 100     | 14,200           | 2.951  | 17,154           | 22                              | 10.10      | · · · · · · · · · · · · · · · · · · · | Nr.        | 105          | 120       | 1   | i (in |
|               |                      |        |         |                  |        |                  | 56                              | 3          |                                       |            |              |           |   |       |
|               | Induntr<br>Eskinpus  |        |         |                  |        |                  |                                 |            |                                       |            |              |           | 9   |       |
|               |                      |        |         |                  |        |                  |                                 |            |                                       | 250        |              |           |   |       |
|               | Indiana<br>Estavor   |        |         |                  |        |                  |                                 |            |                                       |            |              |           |   |       |
|               |                      |        |         | Sarras<br>Sarras |        |                  |                                 |            |                                       |            |              |           |   |       |
|               |                      |        |         |                  |        |                  |                                 |            |                                       |            |              |           |   |       |
|               |                      |        |         |                  |        | 1.7              |                                 |            |                                       |            |              |           |   |       |
|               | - 25                 |        |         |                  |        |                  | Taupa<br>ERCUN ()<br>ulendin' Y | are walled | LITES                                 |            |              |           |   |       |

#### TABLE 3

#### Calendar Year 1958

|              |                    |                   | Numb            | er of X-rays           | Taken                   |                      | Number                            | of Active Case                   | es Discov                                 | ered       |                | - Number of<br>Cases |  |              |
|--------------|--------------------|-------------------|-----------------|------------------------|-------------------------|----------------------|-----------------------------------|----------------------------------|---|------------|----------------|----------------------|--|--------------|
|              |                    | -                 | ramo            | ci ol 71-rays          | Taken                   | E                    | chool Surveys                     | I table                          |   | Discovered | Number         |                      |  |              |
| Region       | Category<br>of     | Population (1)    |                 | 1                      |                         | Diamond              | Previous                          | ly known                         |   | by         | Grand          | by<br>Surveys        | of<br>B.C.G.<br>Vaccina-                     |              |
|              | Persons            | Persons           |                 | on<br>Field<br>Surveys | on<br>School<br>Surveys | on<br>All<br>Surveys | Diagnosed<br>for<br>First<br>Time | Active<br>on Last<br>Examination | Re-activated<br>Since Last<br>Examination | Totals     | Other<br>Means | Totals               | Hospitalized<br>Before<br>January 1,<br>1959 | tions<br>(2) |
| Eastern      | Indians<br>Eskimos | 57,800<br>6,634   | 11,920<br>4,140 | 711                    | 12,631<br>4,140         | 115<br>93            | 10<br>10                          | 25<br>6                          | 150<br>109                                | 91<br>9    | 241<br>118     | 109<br>100           | 1,794<br>376                                 |              |
|              | Totals             | 64,434            | 16,060          | 711                    | 16,771                  | 208                  | 20                                | 31                               | 259                                       | 100        | 359            | 209                  | 2,170  |              |
| Central      | Indians<br>Eskimos | 34,800<br>1,765   | 21,239<br>854   | 4,177                  | 25,416<br>854           | 45<br>11             | 4                                 | 36                               | 81<br>15                                  | 129<br>46  | 210<br>61      | 76<br>6              | 1,463<br>33                                  |              |
|              | Totals             | 36,565            | 22,093          | 4,177                  | 26,270                  | 56                   | 4                                 | 36                               | 96  | 175        | 271            | 82                   | 1,496  |              |
| Saskatchewan | Indians            | 20,700            | 14,200          | 2,951                  | 17,151                  | 35                   | 6                                 | 6                                | 47  | 109        | 156            | 47                   | 883  |              |
| Foothills    | Indians<br>Eskimos | 26,400<br>2,931   | 12,522<br>2,468 | 4,290                  | 16,812<br>2,468         | 14<br>9              | 3                                 | 9<br>3                           | 26<br>12                                  | 128<br>40  | 154<br>52      | 26<br>12             | 3,031  |              |
|              | Totals             | 29,331            | 14,990          | 4,290                  | 19,280                  | 23                   | 3                                 | 12                               | 38  | 168        | 206            | 38                   | )  |              |
| Pacific      | Indians            | 34,300            | 13,612          | 2,154                  | 15,766                  | 70                   | 5                                 | 24                               | 99  | 137        | 236            | 69                   | 1,757  |              |
| Totals       | Indians<br>Eskimos | 174,000<br>11,330 | 73,493<br>7,462 | 14,283                 | 87,776<br>7,462         | 279<br>113           | 24<br>14                          | 100<br>9                         | 403<br>136                                | 594<br>95  | 997<br>231     | 327<br>118           | 9,337  |              |
|              | Totals             | 185,330           | 80,955          | 14,283                 | 95,238                  | 392                  | 38                                | 109                              | 539                                       | 689        | 1,228          | 445                  | )  |              |

(1)—Total Registered Indian pop. Dec. 31, 1958; distribution by Regions estimated. Eskimo pop. Dec. 31, 1958; includes an estimated 900 in Labrador. (2)—Repeats included with first vaccinations. Foothills Regional figures include vaccinations given to "Others".

#### TABLE 4 REGISTERED INDIAN AND ESKIMO IN-PATIENT MOVEMENT BY CONDITION AND REGION IN ALL I.N.H.S. AND NON-I.N.H.S. INSTITUTIONS Calendar Years 1955 to 1957

| Region              | Condition                         | Pati                    | ents Under Care        | 185                    |                                 | Patient Days                    | the set                       | Average Stay of Separations |                          |                          |  |
|---------------------|-----------------------------------|-------------------------|------------------------|------------------------|---------------------------------|---------------------------------|-------------------------------|-----------------------------|--------------------------|--------------------------|--|
|                     |                                   | 1955                    | 1956                   | 1957                   | 1955                            | 1956                            | 1957                          | 1955                        | 1956                     | 1957                     |  |
| Eastern             | General<br>Tuberculosis<br>Mental | 10,198<br>1,596<br>206  | 11,571<br>1,625<br>209 | 11,227<br>1,048<br>194 | 154,322<br>221,606<br>55,496    | 172,789<br>226,818<br>57,599    | 153,731<br>163,580<br>52,151  | 14.8<br>235.8<br>747.9      | 14.3<br>260.6<br>1,453.7 | 14.0<br>308.0<br>860.6   |  |
|                     | Totals                            | 12,000                  | 13,405                 | 12,469                 | 431,424                         | 457,206                         | 369,462                       | 37.9                        | 42.1                     | 35.1                     |  |
| Central             | General                           | 8,078<br>1,424<br>70    | 8,255<br>1,068<br>66   | 10,700<br>948<br>63    | 97,052<br>193,676<br>16,462     | 94,446<br>150,825<br>16,044     | 120,327<br>137,028<br>15,195  | 12.3<br>247.6<br>800.8      | 11.3<br>213.0<br>593.7   | 11.6<br>313.1<br>574.8   |  |
|                     | Totals                            | 9,572                   | 9,389                  | 11,711                 | 307,190                         | 261,315                         | 272,550                       | 40.1                        | 29.1                     | 28.5                     |  |
| Saskatchewan        | General                           | 6,226<br>849<br>55      | 7,296<br>732<br>69     | 8,493<br>538<br>92     | 66,563<br>102,093<br>13,005     | 79,707<br>95,827<br>15,814      | 91,619<br>84,050<br>20,082    | 10.7<br>167.7<br>660.7      | 11.3<br>184.5<br>291.2   | 11.1<br>269.6<br>369.8   |  |
|                     | Totals                            | 7,130                   | 8,097                  | 9,123                  | 181,661                         | 191,348                         | 195,751                       | 25.9                        | 23.7                     | 22.2                     |  |
| Foothills           | General                           | 7,230<br>1,000<br>58    | 8,471<br>865<br>71     | 9,220<br>650<br>55     | 99,430<br>200,252<br>15,209     | 106,104<br>151,864<br>17,399    | 113,892<br>123,411<br>16,217  | 12.4<br>438.3<br>1,353.5    | 11.7<br>481.9<br>164.1   | 12.5<br>455.1<br>1,079.7 |  |
|                     | Totals                            | 8,288                   | 9,407                  | 9,925                  | 314,891                         | 275,367                         | 253,520                       | 46.3                        | 39.2                     | 28.3                     |  |
| Pacific             | General                           | 256*<br>1,009<br>81     | 10,268<br>945<br>80    | 10,801<br>699<br>84    | 102,935<br>161,827<br>23,174    | 117,733<br>145,508<br>23,886    | 138,894<br>132,519<br>23,234  | 39.7*<br>366.1<br>455.2     | 11.4<br>247.1<br>641.0   | 13.2<br>382.4<br>885.3   |  |
|                     | Totals                            | 1,346*                  | 11,293                 | 11,584                 | 287,936                         | 287,127                         | 294,647                       | 280.5*                      | 25.7                     | 27.4                     |  |
| All Indians         | General<br>Tuberculosis<br>Mental | 31,988*<br>5,878<br>470 | 45,861<br>5,235<br>495 | 50,441<br>3,883<br>488 | 520,302<br>879,454<br>123,346   | 570,779<br>770,842<br>130,742   | 618,463<br>640,588<br>126,879 | 13.0*<br>280.4<br>780.9     | 12.2<br>270,1<br>808.2   | 12.5<br>336.0<br>696.9   |  |
|                     | Totals                            | 38,336*                 | 51,591                 | 54,812                 | 1,523,102                       | 1,472,363                       | 1,385,930                     | 43.8*                       | 32.7                     | 28.6                     |  |
| Eskimo              | General                           | 845<br>1,356<br>13      | 1.711<br>1.578<br>27   | 2,017<br>1,287<br>26   | 37,518<br>183,336<br>3,888      | 46,256<br>231,425<br>4,452      | 46,305<br>206,551<br>4,529    | 44.2<br>240.8<br>10.0       | 30.4<br>236.5<br>1,063.4 | 23.7<br>323.3<br>278.2   |  |
|                     | Totals                            | 2,214                   | 3,316                  | 3,330                  | 224,742                         | 282,133                         | 257,385                       | 139.3                       | 107.4                    | 109.1                    |  |
| Indians Plus Eskimo | General                           | 32,833*<br>7,234<br>483 | 47,572<br>6,813<br>522 | 52,458<br>5,170<br>514 | 557,820<br>1,062,790<br>127,234 | 617,035<br>1,002,267<br>135,194 | 664,768<br>847,139<br>131,408 | 13.7*<br>274.2<br>774.4     | 12.8<br>263.1<br>825.1   | 13.0<br>332.9<br>660.8   |  |
|                     | Totals                            | 40,550*                 | 54,907                 | 58,142                 | 1,747,844                       | 1,754,496                       | 1,643,315                     | 47.4*                       | 36.4                     | 32.6                     |  |

\* Excluding B.C.H.I.S.

ANNUAL REPORT

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> Deputy Minister of National Health and Welfare (Health) G. D. W. Cameron, M.D., C.M., D.P.H., LL.D., F.R.C.P. Deputy Minister of National Health and Welfare (Welfare) G. F. Davidson, B.A., M.A., PH.D., LL.D.

#### HOUSIN HEALTH BRANCH OLIA ZIOMAWOLIA YIMAT

#### FOOD AND DRUG DIRECTORATE:

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Principal Medical Officer, Health Insurance, E. H. Lossing, M.D., M.P.H. Principal Medical Officer, National Health Grants, G. W. Wride, M.D., D.P.H. Principal Medical Officer, Research Development and International Health, B. D. B. Layton, M.D., M.P.H.

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Child and Maternal Health Division, Chief, J. F. Webb, B.Sc., M.D., D.P.H. Dental Health Division, Consultant, H. K. Brown, D.D.S., D.D.P.H.

Epidemiology Division, Chief, E. W. R. Best, M.D.

Hospital Design Division, Chief, H. E. Hughes, B. Arch., A.R.I.B.A., M.R.A.I.C. Laboratory of Hygiene, Director, J. Gibbard, B.S.A., S.M., F.R.S.C.

Medical Rehabilitation and Disability Advisory Service, Consultant, B. Primeau, M.D.

Mental Health Division, Chief, J. E. Gilbert, M.B., B.S., M.R.C.S., L.R.C.P.

Chief Nursing Consultant, D. M. Percy, R.R.C., R.N.

Nutrition Division, Chief, L. P. Pett, B.S.A., M.A., Ph.D., M.D., C.P.H.

Occupational Health Division, Chief, T. H. Patterson, M.D., D.P.H., M.P.H.

Public Health Engineering Division, Chief, J. R. Menzies, B.A.Sc., C.L.S.C.E.

Radiation Protection Division, Clinical Consultant, W. J. D. Cooke, M.D.

#### MEDICAL ADVISORY SERVICES:

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 Civil Service Health Division, Chief, E. L. Davey, M.D., D.P.H.
 Quarantine, Immigration Medical and Sick Mariners Services, Chief, W. H. Frost, M.D., D.P.H.

#### NARCOTIC CONTROL DIVISION:

Chief, R. C. Hammon, Phm.B. Narcotic Drugs, Canadian Representative to UN Commission, K. C. Hossick.

#### WELFARE BRANCH

Executive Assistant, Welfare, Mrs. D. B. Sinclair, O.B.E., B.A., M.A., LL.D., D.Sc. Soc., L.H.D. (on leave). Consultant, Fitness and Recreation, Doris W. Plewes, M.A., B. Paed., Ed.D.

#### FAMILY ALLOWANCES AND OLD AGE SECURITY DIVISION:

National Director, J. Albert Blais Regional Directors-Newfoundland, L. C. Abbott, St. John's Prince Edward Island, J. E. Green, Charlottetown Nova Scotia, J. G. Parsons, Halifax New Brunswick, A. Nicholson, Fredericton Quebec, J. M. L. Lafrance, Quebec Ontario, F. C. Jackson, Toronto Manitoba, W. F. Hendershot, Winnipeg Saskatchewan, R. J. G. Mitchell, Regina Alberta, H. C. L. Gillman, Edmonton British Columbia, W. R. Bone, Victoria Yukon and Northwest Territories, Miss Norma O'Brien, Ottawa

#### OLD AGE ASSISTANCE, ALLOWANCES FOR BLIND PERSONS, AND ALLOWANCES FOR DISABLED PERSONS:

Director, J. W. MacFarlane.

## CIVIL DEFENCE

Deputy Co-ordinator, G. S. Hatton, C.B., D.S.O., O.B.E. Chief Administrative Officer, M. P. Cawdron, M.A., B.Sc.

#### ADMINISTRATION BRANCH

Secretary's Division, Departmental Secretary, Olive J. Waters Information Services Division, Director, Harvey W. Adams Legal Division, Legal Advisor, R. E. Curran, Q.C., B.A., LL.B. Library, Departmental Librarian, Miss M. D. Morton, B.H.Sc., B.L.S. Purchasing and Supply Division, Chief, J. A. Hickson Research and Statistica Division, Chief, J. A. Hickson Research and Statistics Division, Chief, J. W. Willard, Ph.D., M.A., M.P.A., A.M.

TRANSLATION OFFICE

Chief, G. A. Sauve Chief, T. F. Phillips

#### ANNUAL REPORT

### DIRECTORY OF DEPARTMENTAL ESTABLISHMENTS

### ADMINISTRATIVE OFFICES

#### AWATTO IN THE OTTAWA

Jackson Building, Bank Street Birks Building, Sparks Street Booth Building, Sparks Street Garland Building, Queen Street No. 1 Temporary Building, Wellington Street No. 3 Temporary Building, Wellington Street Trafalgar Building, Queen Street Daly Building, Mackenzie Avenue Copeland Building, Albert Street

#### CIVIL DEFENCE COLLEGE

ARNPRIOR, Ont.-P.O. Box 2050

#### FAMILY ALLOWANCES AND OLD AGE SECURITY

| ST. JOHN'S, Nfld.     | 29 Buckmasters' Field        |
|-----------------------|------------------------------|
| CHARLOTTETOWN, P.E.I. | Dominion Building            |
| HALIFAX, N.S.         | Ralston Building             |
| FREDERICTON, N.B.     | Federal Building             |
| QUEBEC, Que.          | 51 Boulevard des Capucins    |
| TORONTO, Ont.         | 122 Front Street West        |
| WINNIPEG, Man.        | 138 Portage Ave., East       |
| REGINA, Sask.         | Dominion Government Building |
| EDMONTON, Alta.       |                              |
| VICTORIA, B.C.        | Federal Building             |

#### FOOD AND DRUG LABORATORIES

| OTTAWA, Ont.    |  |
|-----------------|--|
| HALIFAX, N.S.   |  |
| MONTREAL, Que.  |  |
| TORONTO, Ont.   |  |
| WINNIPEG, Man.  |  |
| VANCOUVER, B.C. |  |

#### FOOD AND DRUG OFFICES

| OTTAWA, Ont.          | Tunney's Pasture            |
|-----------------------|-----------------------------|
| HALIFAX, N.S.         | Ralston Building            |
| CHARLOTTETOWN, P.E.I. | Confederation Building      |
| SAINT JOHN, N.B.      | 250 Prince William Street   |
| SYDNEY, N.S.          | Federal Building            |
| ST. JOHN'S, Nfld.     | T. A. & B. Society Building |
| QUEBEC, Que.          | 375 Dorchester Street       |
| THREE RIVERS, Que.    |                             |
| SHERBROOKE, Que.      | 315 King Street West        |
| MONTREAL, Que.        | 379 Common Street           |
| TORONTO, Ont.         |                             |

| 12 Bridge Street East     |
|---------------------------|
| National Revenue Building |
| Dominion Public Building  |
| Dominion Public Building  |
| Dominion Public Building  |
| Federal Building          |
| 33 Court Street South     |
| Aragon Building           |
| 307 London Building       |
| 713 Motherwell Building   |
| Customs Building          |
| Federal Public Building   |
|                           |
| Federal Building          |
| 805 Government Street     |
|                           |

#### **IMMIGRATION MEDICAL SERVICE OFFICES**

FAMILY ALLOWANCE BOA GLO Canada DMAWOLLA YJIMAT

| Gander Airport   |
|--|
| Harmon Field Airport   |
| Marine Hospital and Reserve Airport                                  |
| Immigration Building, Pier 21  |
| Moncton Airport  |
| Immigration Building, Pier 9   |
| Champlain Harbour Station, Wolf's Cove                               |
| and Immigration Hospital, Quebec-                                    |
| West BIA MOTHOMOS  |
| 150 St. Paul Street, West  |
| Dorval Airport   |
| 175 Bedford Road and Malton Airport                                  |
| Windsor Airport  |
| London Airport   |
| Immigration Hall, 83 Naple St., and<br>Winnipeg Airport              |
| Edmonton Airport   |
| Immigration Building, foot of Burrard Street, and Sea Island Airport |
|  |

## Overseas A Q Q Q

| LONDON, England           | . 61 Green Street, Mayfair, W.1  |
|---------------------------|----------------------------------|
| BELFAST, Northern Ireland | 12-20 North Street               |
| BRISTOL, England          | 5-18 Wine Street                 |
| GLASGOW, Scotland         | 18 Woodlands Terrace, C.3        |
| LEEDS, England            | 5-7 New York Road                |
| LIVERPOOL, England        |                                  |
| BRUSSELS, Belgium         | . 230 rue Royale                 |
| PARIS, France             | 38 Avenue de l'Opera             |
| ROME, Italy               | Via Nemorense, 90                |
| THE HAGUE, Holland        | .12 Carelvan Bijlandtlaan        |
| COPENHAGEN, Denmark       | Canadian Legation, Vestagervej 5 |

#### ANNUAL REPORT

| amaro antiduti mont son e | Canadian Government Immigration Mis-<br>sion, Berlin-Zehlendorf, Berliner<br>Str. 25           |
|---------------------------|--|
| COLOGNE, Germany          | Canadian Embassy, Visa Section, Buch-<br>heimerstrasse, 64-66 Winer Platz,<br>Cologne-Muelheim |
| MUNICH, Germany           | Am lillienberg, 1-2, Munich 8  |
| STUTTGART, Germany        | Marquart Building, 20 Koenigstrasse  |
| HAMBURG, Germany          | Canadian Government Immigration Mis-<br>sion, Admiralitaetstrasse, 46                          |
| BERNE, Switzerland        |  |
| VIENNA, Austria           | Canadian Embassy, Medical Section,<br>Tuchlauben 8, Vienna                                     |
| ATHENS, Greece            | Canadian Embassy, Visa Office,<br>54A Queen Sofia Avenue                                       |
| HELSINKI, Finland         | Canadian Legation, Medical Department,<br>Bulevardi 10   |
| NEW DELHI, India          |  |

#### SICK MARINERS CLINICS AND HOSPITALS

HALIFAX, N.S.Immigration Building, Pier 21SYDNEY, N.S.Marine HospitalSAINT JOHN, N.B.Immigration Building, Pier 9QUEBEC, Que.Champlain Harbour Station, Wolfe's CoveMONTREAL, Que.150 St. Paul Street WestVANCOUVER, B.C.Immigration Building, Foot Burrard<br/>Street

#### QUARANTINE STATIONS AND SUB-STATIONS

| GANDER, Nfld.       | Gander Airport<br>Marshall Building   |
|---------------------|---|
| ST. JOHN'S, Nfld.   | Marshall Building   |
| HALIFAX, N.S.       | Pier 21   |
|                     | Pier 9 and Quarantine Hospital, Lan-<br>caster                                      |
|                     | Champlain Harbour Station, Wolfe's<br>Cove, and Quarantine Hospital,<br>Quebec-West |
| 5 6 1               | 150 St. Paul Street West and 320 Bald-<br>win Street                                |
| DORVAL, Que.        | Dorval Airport  |
| BAIE COMEAU, Que.   | Sub-Station   |
| SEVEN ISLANDS, Que. |   |
| RIMOUSKI, Que.      | Sub-Station   |
| PORT ALFRED, Que.   |   |
| THREE RIVERS, Que.  | Sub-Station   |
| SOREL, Que.         | Sub-Station   |
| VICTORIA, B.C.      | Sub-Station   |
| VANCOUVER, B.C.     | Immigration Building and Sea Island<br>Airport                                      |
|                     | William Head, B.C.  |

#### INDIAN AND NORTHERN HEALTH SERVICES

| 4th Floor Booth Building, Ottawa       |
|--|
| 803-9 Confederation Building, Winnipeg |
| 735 Motherwell Building, Regina        |
| Charles Camsell Indian Hospital,       |
| Edmonton                               |
| 4824 Fraser Street, Vancouver          |
|  |

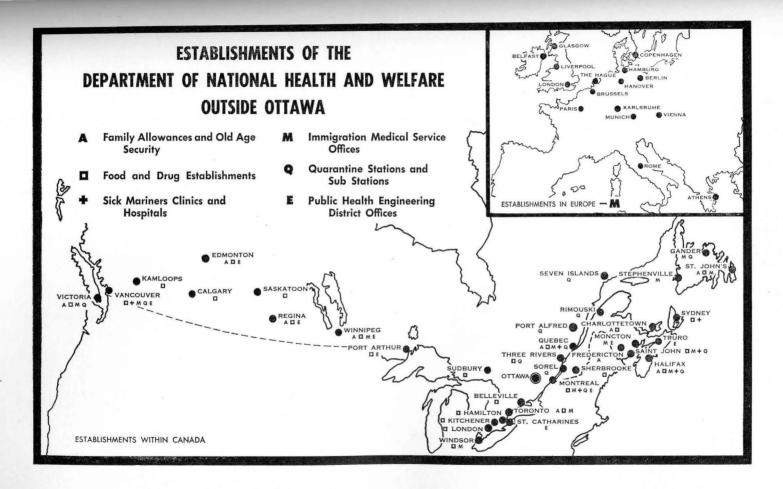
## LABORATORY OF HYGIENE

#### **OCCUPATIONAL HEALTH LABORATORIES**

#### PUBLIC HEALTH ENGINEERING DISTRICT OFFICES

| P.O. Box 608, Federal Building          |
|---|
| Post Office Building                    |
|   |
| Dominion Building                       |
| Post Office Building                    |
| Post Office Building                    |
| Motherwell Building                     |
| Federal Building                        |
| Begg Building, 1110 West Georgia Street |
|   |

## RADIATION PROTECTION



DEPARTMENT OF NAT

