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DEPARTMENT OF HEALTH

ANNUAL REPORT

FOR THE CALENDAR YEAR

1964

WINNIPEG, MANITOBA.

Printed by R. S. Evans - Queen's Printer for Province of Manitoba

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DEPARTMENT OF HEALTH

ANNUAL REPORT

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1964

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Errick F. Willis,

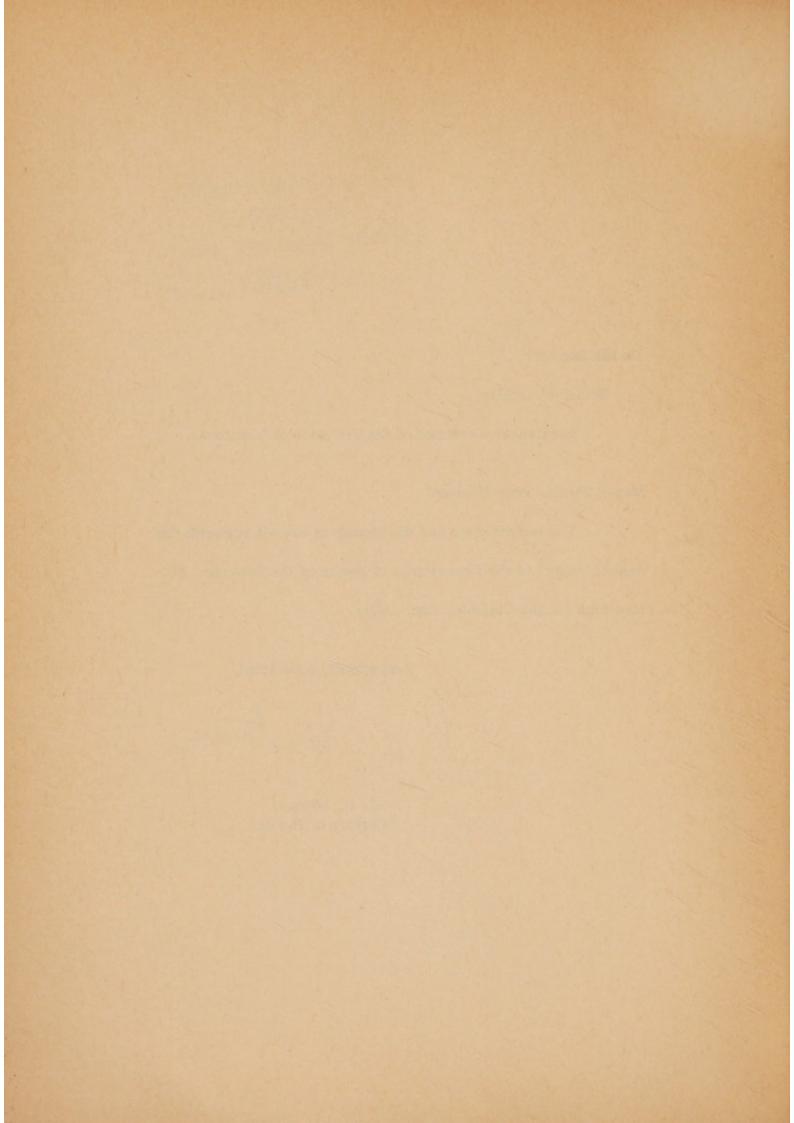
Lieutenant-Governor of the Province of Manitoba.

May It Please Your Honour:

The undersigned has the honour to submit herewith the Annual Report of the Department of Health of the Province of Manitoba for the Calendar Year 1964.

Respectfully submitted,

C. H. Witney, Minister of Health.



The Honourable C. H. Witney,

Minister of Health,

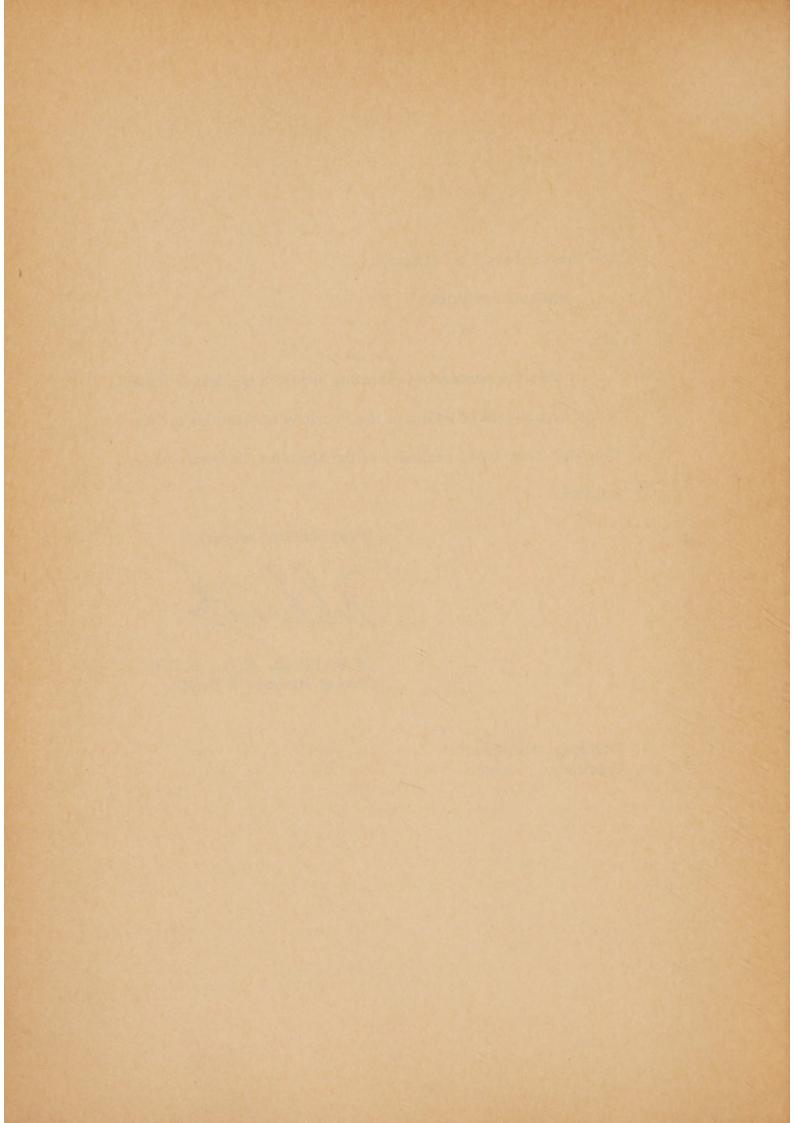
Sir:

I have the honour of presenting herewith the Annual Report of the Department of Health of the Province of Manitoba for the Calendar Year 1964, exclusive of the Manitoba Hospital Commission.

Your obedient servant,

M. R. Elliott, M. D., D. P. H., Deputy Minister of Health.

Winnipeg, Manitoba. February 1965.



MANITOBA DEPARTMENT OF HEALTH

DIRECTORY OF DEPARTMENTAL OFFICERS

Minister Honourable C. H. Witney

Deputy Minister of Health M. R. Elliott, M. D., D. P. H.

GENERAL ADMINISTRATION

National Health Grants Program, Executive Assistant, C. A. Cameron Health Education, Director, D. F. McLean, B. S. A. Vital Statistics and Records, Recorder, D. W. Matheson Rehabilitation Services, W. N. Boyd, B. A., M. S. W.

PSYCHIATRY

Psychiatric Institute, Medical Superintendent and Provincial Psychiatrist, E. Johnson, M. D. Farms' Manager, G. R. Chandler, B. Sc. A.

Hospital for Mental Diseases, Brandon, Medical Superintendent,
M. E. Bristow, M. D.

Hospital for Mental Diseases, Selkirk, Medical Superintendent, R. H. Tavener, M. D.

Manitoba School, Portage la Prairie, Medical Superintendent, H. S. Atkinson, M. D.

HEALTH

Health Services, Director, J. B. Morison, M. D., D. P. H.

Environmental Sanitation, Director, L. A. Kay, M. A. Sc., P. Eng.

Public Health Engineering Director, L. A. Kay, M. A. Sc., P. Eng.

Food Control, Director, A. G. McLeod, B. Sc. A.

Industrial Hygiene, Public Health Chemist, W. M. Ward, B. A. (Chem.)

Public Health Inspection, Chief Public Health Inspector, M. Flattery

Preventive Medical Services, Director, E. Snell, L. R. C. P., D. P. H.

Venereal Disease Control, Director, J. A. Eadie, M. B., Ch. B., D. P. H.

Care Services, Director, W. Watt, M. B., Ch. B., D. P. H.

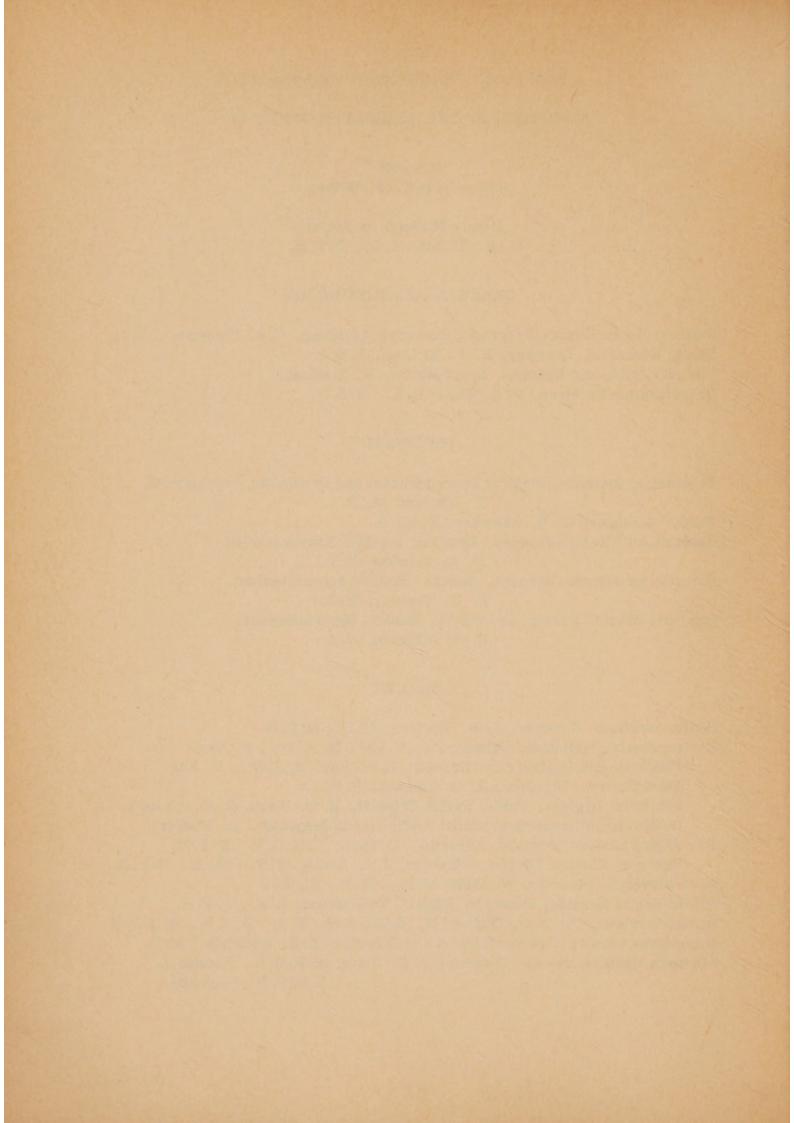
Public Health Nursing, Director, Miss J. Williamson, R. N., D. P. H.

Dental Services, Director, Clifford H. McCormick, B. A., D. D. S., D. D. P. H.

Laboratory Services, Bacteriologist and Director, L. B. Lansdown, M. D.

Northern Health Services, Director, R. C. Rolfe, M. R. C. S., (England),

L. R. C. P. (London)



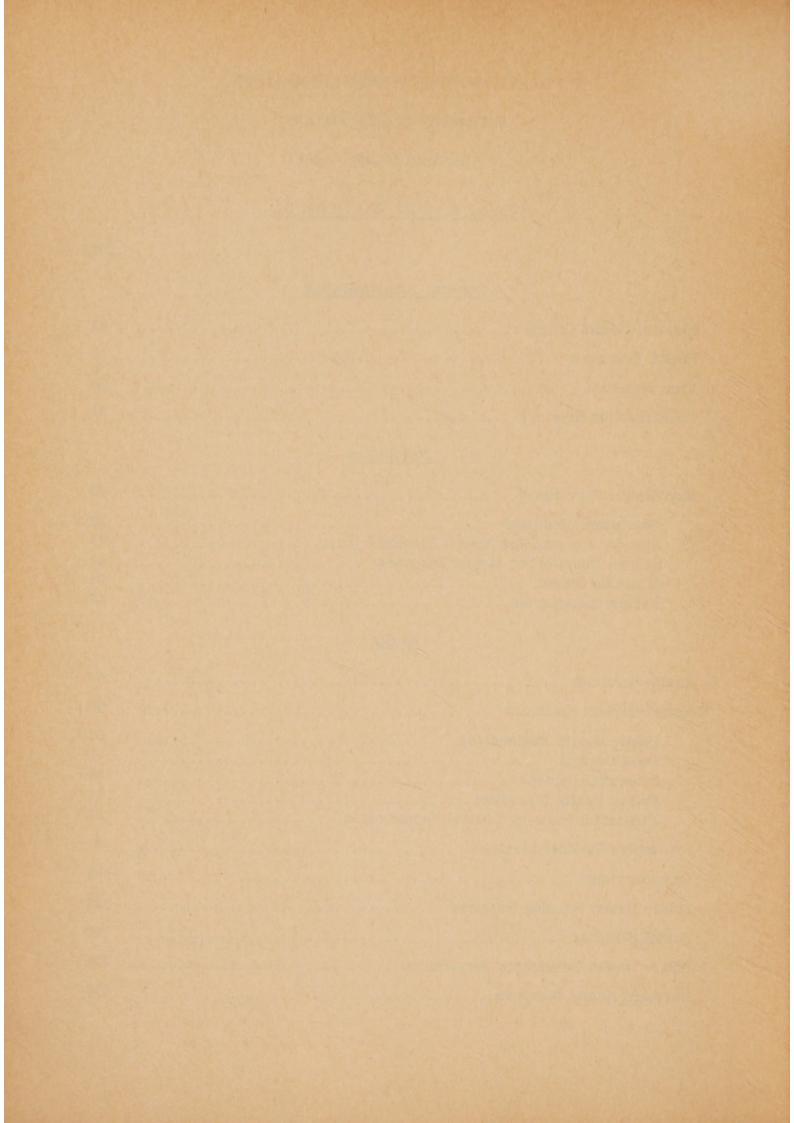
MANITOBA DEPARTMENT OF HEALTH

SUMMARY OF ACTIVITIES

CALENDAR YEAR - 1964

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GENERAL ADMINISTRATION

NATIONAL HEALTH GRANTS

This program is supported by a series of nine Federal grants-in-aid and was conceived as a means of assisting the provinces in the development, improvement and extension of their health services and to promote a working partnership between the Dominion and the Provinces for the advancement of health.

In six of the grants the federal government bears the entire cost of the service outlined in the project but it is required by the federal authorities that the provinces contribute an equal amount when projects are submitted under the Hospital Construction, Cancer Control, and Medical Rehabilitation and Crippled Children Grant. Exceptions to this 'matching' requirement are allowed for the purchase of equipment or for the training of personnel.

In general, these grants contribute to the extension of local health services in both rural and urban areas; the training and employment of many categories of health workers; the expansion and renovation of existing hospital buildings and the erection of new ones; the control of tuberculosis, venereal and other communicable diseases; the development of improved cancer treatment and diagnostic facilities, of laboratories for the diagnosis of disease and of medical rehabilitation services to restore patients to the maximum degree of health and productivity; the treatment of crippling conditions in children; the extension of services to prevent and treat mental illness; the improvement of care given to mothers and their children; and the promotion of research in public health.

These grants are made on a fiscal year basis and the following table displays the actual payments made to Manitoba during the Federal Government's latest full fiscal period, ended on March 31, 1964:

| Grants | | Amount |
|--|------|----------------|
| Professional Training | \$ | 87, 368.18 |
| Hospital Construction | | 957, 815.66 |
| Mental Health | | 435, 222.97 |
| Tuberculosis Control | | 178, 353.11 |
| Public Health Research | | 83, 263, 26 |
| General Public Health | | 736, 201.66 |
| Cancer Control | | 163, 382.00 |
| Medical Rehabilitation and Crippled Children | | 158,903.65 |
| Child and Maternal Health | _ | 64,613.37 |
| | \$: | 2, 865, 123.86 |
| | | |

The following outline indicates briefly the use made of these funds:

Professional Training Grant: Intended primarily for the training of health and hospital personnel who would use their additional skills in salaried positions in provincial health departments, hospitals, health and diagnostic units, municipal health departments, and in certain non-governmental agencies acting on behalf of a province. This objective is achieved mainly through the granting of bursaries to individuals and the organization of short courses or institutes. Bursary assistance is also provided for trainees under the Mental Health and

General Public Health Grants and the following consolidated table displays the number of health and hospital personnel whose studies were financed through funds provided under all three Grants during the academic year 1963/64 and of those who are presently enrolled in 1964-65 courses:

| | | | | Full Acade | mic Year |
|---|------------|---------|----------------|------------|-----------|
| Total Control of the | * | Short | Correspondence | Completed | On Course |
| Trainees | Institutes | Courses | Courses | 1963/64 | 31/12/64 |
| Chemists | | 1 | | | 1 |
| Dental Hygienists | | | | 3 | 5 |
| Food and Milk Consultants | | 4 | | | |
| Health Educators | | 1 | | | |
| Hospital Administrators | | | 4 | | 1 |
| Laboratory and X-Ray Technicians | | 2 | | 38 | 53 |
| Nurses | 63 | | | 35 | 23 |
| Occupational Therapists | | | | | 1 |
| Physicians: Medical Doctors | | | | 2 | 3 |
| Psychiatrists | | 5 | | 6 | 7 |
| Physiotherapists | | | | 1 | 1 |
| Psychologists | 40 | | | 3 | 3 |
| Psychiatric Social Workers | | | | 2 | 6 |
| Public Health Inspectors | 86 | | | 3 | 6 |
| Public Health Engineers | | 3 | | | |
| Speech and Hearing Therapists | | | | 6 | 4 |
| Teachers of Handicapped Children | | | | 2 | |
| | 189 | 16 | 4 | 101 | 114 |

Funds were also provided to pay the salaries of two instructors for courses being conducted at the Central Laboratory in Winnipeg and the Regional Laboratory at Brandon, and for the expense involved in conducting institutes in the rural parts of the province. These institutes are concerned with maternal and child health and are well attended by professional people such as medical students, physicians, nurses, social workers and educationalists.

<u>Hospital Construction Grant</u>: Provided for the expansion and renovation of existing hospital buildings and the erection of new ones. Under the terms and conditions governing this Grant the province is obliged to make a contribution equal to that made by the Federal Government.

Grants Paid by Canada Between April 1 and December 15, 1964

| Recipient | Amount |
|---|----------------|
| Bethel Hospital - Winkler | 114,540.00 |
| Bethseda Hospital - Steinbach | 48,814.72 |
| Manitoba Cancer Treatment and Research Foundation | 11,175.00 |
| Manitoba School for Mentally Defective Persons | 31,628.42 |
| McCreary Medical Nursing Unit | 13,783.31 |
| Northern Health Unit | 3,894.58 |
| Winnipeg General Hospital | 192, 426.66 |
| | \$ 416, 262.69 |

Grants Paid by Canada During Their Fiscal Year 1963/64

| Recipient | Amount |
|---|--|
| Altona District Hospital | 52, 857.57 |
| Bethseda Hospital - Steinbach | 97, 629, 45 |
| Brandon General Hospital | 148,530.00 |
| Children's Hospital - Winnipeg | 3,761.94 |
| Crowe Memorial Hospital - Eriksdale | 48,563.38 |
| Dauphin General Hospital | 29, 358.03 |
| Elkhorn Medical Nursing Unit | 6,714.70 |
| Fox Memorial Hospital - Carberry | 43,419.99 |
| Gilbert Plains Medical Nursing Unit | 44, 416.81 |
| King Edward Hospital - Winnipeg | 10,807.64 |
| Manitoba Cancer Treatment and Research Foundation | 67, 878, 33 |
| Manitoba School for Mentally Defective Persons | 122, 072. 35 |
| McCreary Medical Nursing Unit | 11,357.69 |
| Misericordia Hospital - Winnipeg | 33,657.49 |
| Northern Health Unit | 9, 208. 75 |
| Roblin District Hospital | 8,924.15 |
| St. Boniface Health Unit | 23, 226.67 |
| St. James Health Unit | 13,650.00 |
| Selkirk Psychiatric Institute | 141, 150.00 |
| Victoria General Hospital - Winnipeg | 1,350.71 |
| Winnipeg General Hospital | 39, 280.01 |
| | \$ 957,815.66 |
| | The same of the sa |

Mental Health Grant: Used to promote those programs most likely to lead to improvement in treatment services provided for care of the mentally ill.

Assistance was provided for the following purposes:

(1) Employment of additional staff and the purchase of equipment and supplies for the following hospitals and clinics:

Psychiatric Institute, Winnipeg
Manitoba School for Mentally Defective Persons, Portage la Prairie
Child Guidance Clinic of Greater Winnipeg
Brandon Hospital for Mental Diseases
Selkirk Hospital for Mental Diseases, and
Psychiatric Out-Patient Department at:
St. Boniface Hospital,

Children's Hospital, Winnipeg General Hospital, Winnipeg.

- (2) To assist in the post-graduate training of psychiatrists through payment of honoraria to visiting lecturers and the purchase of textbooks;
 - (3) Training of psychiatrists, psychologists and psychiatric social workers;
 - (4) Financing of four research studies in the field of mental health.

Tuberculosis Control Grant: Used in its entirety by the Sanatorium Board of Manitoba for:

- (1) Improvement and extension of the following program:
 - (a) Medical and surgical services and the training of under-graduate and licensed practical nurses at the Manitoba Sanatorium, Ninette;
 - (b) Rehabilitation services at the Manitoba Sanatorium at Ninette and the Central Tuberculosis Clinic, Winnipeg;
 - (c) B. C. G. vaccination;
 - (d) X-raying of the chests of patients admitted to general hospitals;
 - (e) Tuberculin Surveys.
- (2) The purchase of streptomycin and other antibiotics.

Public Health Research Grant: Provided funds to allow investigators in the University of Manitoba, hospitals or the Health Department to conduct research into eleven public or community health problems.

General Public Health Grant: Used to strengthen and improve existing programs and to extend services in various fields which are not covered by specific grants. Funds were allotted for the following purposes:

- (1) Salaries of additional staff and the purchase of supplies, for the following Departmental Bureaus:
 - (a) Public Health Laboratory at Dauphin;
 - (b) Health Education
 - (c) Environmental Sanitation;
 - (d) Local Health Units.
- (2) Payment of one-half of the cost of the salaries of additional staff and the purchase of supplies, etc., for the following Departmental Bureaus:
 - (a) Venereal Disease Control;
 - (b) Laboratory and X-Ray Units.
- (3) Salaries and travelling expenses for additional staff for the City of Winnipeg Health Department;
- (4) Purchase of equipment for use in the homes of poliomyelitis patients who have been discharged from hospital;
- (5) Payment of one-half of the cost of our purchase of poliomyelitis vaccine;
- (6) Payment of staff salaries and the purchase of supplies, etc., to support the following programs:
 - (a) Glaucoma Clinic, Winnipeg General Hospital
 - (b) Poison Control Centre, Children's Hospital;
- (7) Payment of 50% of the cost of salaries, supplies and equipment required for the virus diagnostic services performed by the University of Manitoba's Department of Bacteriology and Immunology;
- (8) Training of Laboratory and X-Ray Technicians, Public Health Inspectors, Health Educators, Nursing Consultants and Dental Hygienists.

- (9) Payment of the following grants:
 - (a) To the Canadian Public Health Association -- \$500.00
 - (b) To the Canadian Council on Hospital Accreditation -- \$1,525.00
- (10) Employment of Indian and Metis girls to serve as lay dispensers and to assist in a supervised Public Health Program among their own people in Northern Manitoba;
- (11) Purchase of equipment to provide a mobile clinic to bring dental services to communities not served by a resident dentist; and
- (12) To undertake a survey of existing occupational health facilities in Manitoba.

Cancer Control Grant: Cancer control was, in the year under review, vested with the Cancer Treatment and Research Foundation and the entire federal allotment of \$163,382.00 was used for their purposes. However, commencing with the fiscal year 1964/65 the operating costs of the Foundation became a responsibility of the Manitoba Hospital Commission with the costs being shareable between Canada and Manitoba under the Hospital Insurance and Diagnostic Services Act. As a result the Cancer Control Grant allotments will in future be transferred to other grants in which our allotments are insufficient to meet the demand placed upon them.

Medical Rehabilitation and Crippled Children Grant: Under the terms of this grant Manitoba is required to match dollar for dollar all contributions received from Canada. Our allottment from Canada was used for the following purposes:

- (1) To assist the Society for Crippled Children and Adults of Manitoba in furthering their program of development of better facilities for the rehabilitation of the physically handicapped;
- (2) To assist in meeting the operating budget, after deduction of fees paid by students, of the University of Manitoba's School of Medical Rehabilitation;
- (3) To assist the Canadian Arthritis and Rheumatism Society in meeting the costs of medical supervision, planning, and the development of mobile occupational and physiotherapy services in the rural parts of the Province;
- (4) To defray part of the costs of the Winnipeg General Hospital's Home-Care Program;
- (5) Training of specialists engaged in the habilitation of babies who are afflicted with congenital anomalies;
- (6) To assist parents in meeting the cost of advice and counselling from sources outside of Manitoba toward habilitation of their own children who have congenital malformations; and
- (7) To defray the cost of establishing and operating in the Rehabilitation Hospital a research and training centre related to the care of disabled persons.

Child and Maternal Health Grant: Provided funds for the following purposes:

- (1) Assistance in the organization of pre-natal classes through payment of stipends to the instructors and the purchase of equipment and teaching aids;
- (2) Maintenance of a registry of Winnipeg school children who have major handicapping conditions;
- (3) Employment of a director and three transfusion officers to provide a co-ordinated and uniform transfusion service to babies suffering from haemolytic diseases of the newborn;

- (4) Payment of the salaries and expenses of seven staff members of this Department who are engaged in preventive dentistry in rural Manitoba and the purchase of equipment and supplies used in their clinics; and
 - (5) Financing the following research:
 - (a) A Study of intrauterine, natal and neonatal deaths; and
 - (b) The assessment of the value of procedures to detect the foetal Electrocardiograms during the second stage of labour; and
 - (6) Study of maternal mortality in an effort to reduce maternal losses.

HEALTH EDUCATION

Drawing on a diverse range of resources within its section, Health Education develops programs in public health education and provides consulting services and educational materials to all other branches of the department and to allied agencies in the public health field. Also, through the distribution of press material and contact with publicity media, this section publishes information concerning departmental services and facilities available to the people of Manitoba.

At the beginning of the fiscal year, 1964 - 1965, services of Health Education were expanded to include administrative control of budget and some degree of program control, over Manitoba's Alcohol Education Services. This organization is non-governmental but sponsored almost entirely by a government grant. Their main function is to provide alcohol educational services to the community through lecturing and distribution of literature.

Also, Health Education was given the responsibility of carrying out an alcohol educational program through advertising, a function formerly carried out through a community group known as the Manitoba Committee on Alcohol Education. This group was disbanded at the beginning of the fiscal year. Responsibilities concerning this area deal with the production and placement of educational material in all publicity media on a regular basis. Material is designed to encourage people to use discretion when consuming alcoholic beverages, and to learn to recognize symptoms of alcoholism and become acquainted with sources of help for the alcoholic. Efforts are also made through advertising, to create a better understanding on the part of the public with respect to alcoholism and a greater insight into the problems of an alcoholic.

To coordinate all activities in the alcohol field including education and rehabilitation, a Coordinating Committee was set up comprised of a representative from each agency including Health Education.

Other major programs over the year in which Health Education became heavily involved included a province-wide Polio Immunization Campaign, Child Traffic Safety Education, School Health Curriculum Revision, Health Hazards and Smoking, Water Safety, Exhibit Production, general information and public relations, and production and revision of pamphlets, posters and other educational materials.

Polio Program Province-Wide

Working in close harmony with other sections of the department, Health Education contributed substantially to the success of the province-wide polio immunization campaign held in Manitoba in 1964.

Prior to, and during this campaign, all publicity requirements were met by Health Education. This involved the production and distribution of 10,000 posters, 500,000 leaflets, preparation of press releases and special articles, radio and T.V. spot announcements, and liaison work with respect to arranging twelve T.V. appearances of departmental personnel concerning the campaign.

Polio Immunization Program

| Poster Production. | | | | | | | | | | | | | | 10, | 000 |) |
|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|------|-----|---|
| Leaflet Production | | | | | | | | | | | | | | 500, | 000 |) |
| Number Immunized | | | | | | | | | | | | | | 611. | 51 | 7 |

A total of 611,517 persons received Sabin Vaccine during this second mass polio immunization program in Manitoba. It is estimated that 45 per cent of pre-school children, 85 per cent of school children and 45 per cent of all adults over the age of 20 years have now received two doses of Sabin Vaccine.

Health Curriculum Under Revision

Revision work on the health curriculum in Manitoba schools, Grades I to IX inclusive, progressed over the year to the point where Grades I, II and III were completed in a provisional form and put into effect on a trial basis with a select group of teachers at the beginning of the 1964-1965 school term.

Following a summer recess, the Curriculum Revision Committee commenced work on Grades IV to IX inclusive, in the fall of 1964. To ease the heavy work load, to some extent, the Committee was increased in size to include all three health educators and additional representation from nursing and the teaching profession.

Objectives are to complete the revision to the end of Grade VI in 1965 and present the entire revised curriculum to the Department of Education for the school year 1966-1967.

Some of the materials prepared may be integrated with Science and Guidance while portions will probably be retained as a separate health unit on curriculum.

Elmer Safety Program Launched

The Elmer child safety school program (sponsored by the National Safety League), first introduced into Manitoba in 1963, is gaining wide acceptance, especially in the Metro-Winnipeg area.

All elementary schools in Winnipeg (70), St. James (15), East Kildonan (15) and St. Boniface (15), have accepted this program.

Also, efforts to introduce the program into large rural centres have resulted in the Town of Flin Flon accepting it in their ten elementary schools. Here, the local Lion's Club has taken a keen interest in child traffic safety and will sponsor the program and support the local R.C.M.P. in sustaining interest in this field.

Attention is now being focused on some other large centres such as Portage la Prairie, Brandon, Dauphin and Selkirk with respect to the Elmer program.

Experience indicates that this program is most effective when channeled through local police authorities and local service organizations.

The Elmer program is designed to teach children sound safety practices. To attract attention and sustain interest, a central cartoon character, ''Elmer, The Safety Elephant'', was developed and reproduced on all pennants and literature. All safety rules are considered as Elmer's rules and presented to

Elmer Safety Program

| Number | r of Schools Carrying Program | | 125 |
|--------|-------------------------------|----|-----|
| | Winnipeg | | |
| b. | St. James | 15 | |
| c. | East Kildonan | 15 | |
| d. | St. Boniface | 15 | |
| e. | Flin Flon | 10 | |
| f. | Transcona | 12 | |

Water Safety Group Formed

Represented on the Provincial Water Safety Committee, an advisory body to the Red Cross, Health Education assisted the water safety division of the Canadian Red Cross in program development and in promotion of programs and services offered in the water safety field. An even closer liaison is anticipated in this area in the future with further expansion of existing programs especially in rural areas and introduction of new programs such as drownproofing.

Exhibit Production

Manitoba's dynamic approach to treatment of the mentally ill was depicted in an exhibit developed for Provincial Fairs in 1964. This exhibit was displayed in the Red River Exhibition in Winnipeg, the Provincial Exhibition in Brandon, Portage Fair, Dauphin Fair and the Flin Flon Fair.

This production was designed to indicate the effectiveness of treatment today as compared with 25 years ago, and to further dispel the traditional stigma associated with mental illness.

Mental Health Exhibit Display

Exhibited at:

Red River Exhibition - Winnipeg

Provincial Exhibition - Brandon

Fair - Dauphin

Fair - Flin Flon

Fair - Portage la Prairie

Teachers Study Public Health

During a six-week period in the summer of 1964, 30 elementary school teachers attended the summer school workshop in public health, organized and administered by Health Education in cooperation with the Department of Education.

All aspects of public health were covered by specialists from the Manitoba Department of Health with emphasis on Health Education.

Teachers who successfully complete this summer session gain three credits toward a first class teaching certificate.

Smoking Program Under Consideration

A wide variety of literature on the hazards of smoking was compiled by the Federal Department of Health and distributed on request to all provinces. Health Education, on receipt of materials, assembled it into kit form and provided these in quantity to local health units throughout the Province and City Health in Winnipeg. Materials are being used to supplement local programs in smoking and health.

To further assist smoking educational programs in schools and community, the Manitoba Medical Association in cooperation with the Department of Health has set up a panel of physicians who are willing to fill speaking engagements on this subject on request.

Venereal Disease

Due to a rising incidence of Venereal Disease, the location and phone number of the Venereal Disease Clinic has been advertised through the distribution of booklets of matches and posters. Also, an electronic telephone answering device has been installed on the venereal disease clinic line which will provide information twenty-four hours a day.

Services Varied

Other areas of activity concerning Health Education included:

- promotion campaign for Alcoholism Prevention Week,
 October 12 18.
- promotion campaign concerning Pharmaceutical Week in Manitoba.
- Health Inspector Training Program,
- Health Inspector Workshop.
- Safety in co-operation with the Greater Winnipeg Safety Council.
- Steering Committee re planning of National Convention of Highway Safety Conference to be held in Winnipeg, the spring of 1965.
- Provision of Health Education sessions for Dental Technicians.

Information Services

Activities in the information area continued at a high level over the year, involving preparation of press material, liaison with all publicity media and association with many voluntary agencies and other departments in government.

These activities included:

- preparation of 12 issues of departmental newsletter;
- preparation of 131 press releases and 100 spot announcements on departmental operations;
- liaison with respect to 20 T. V. appearances and six radio interviews involving various specialists in the department;
- operation of comprehensive promotion campaign concerning the Polio Immunization program held in the spring of 1964.

Information Services

| No. of Departmental Newsletters Prepared | 12 |
|--|-----|
| No. of Press Releases Prepared | |
| No. of Spot Announcements Prepared | 100 |
| No. of T. V. Appearances Arranged | 20 |

Publications

Production and publication of new materials and revision of old material was given considerable attention this year covering such specific areas as Psychiatric Nursing, Rh Factor, First Aid, Pre-school Children, and Carbon Tetrachloride.

A major production involved the preparation of a comprehensive first aid flip chart for distribution through local health units, the Department of Labour and the Manitoba Rural Safety Association to schools, industry and rural points. An initial quantity of 5,000 were printed for distribution in 1965.

Distribution of pamphlets this year totalled 995, 058 an increase of 225, 400 over the same period in the previous year.

Poster circulation throughout the province totaled 38,731. These figures include posters and pamphlets distributed re Sabin Vaccine during the polio campaign.

Publications

| No. | of | Publications Distributed | | | | | | | | | 995, | 058 | 3 |
|-----|----|--------------------------|--|--|--|--|--|--|--|--|------|-----|---|
| No. | of | Posters Distributed | | | | | | | | | 38. | 73. | 1 |

Mimeographing Services

Mimeographing services provided by Health Education continue to be in constant demand by the Health, Welfare and some other departments. Printing jobs over the past year show an increase over 1963 of, 366 printing jobs, totalling 1, 236 orders. This involved 3,871 stencils and 682,539 sheets of paper.

This section of our operation provides an extremely important service to all concerned.

Mimeographing Services

| No. of Printing Orders | 1, 236 |
|--------------------------------------|----------|
| No. of Stencils Used | 3,871 |
| Total No. of Sheets of Paper Printed | 682, 534 |

Art Services

An increase in activities in publications and the television field have naturally placed greater demands on our Art Section. Over the past year, 192 major projects were completed.

| Pamphlets | 16 |
|-------------------|-----|
| Certificates | 9 |
| Covers Designed | 14 |
| Logos | 3 |
| Posters Designed | 17 |
| Folders | 3 |
| Illustrations | 103 |
| Graphics T. V. | 6 |
| Letterhead Design | 2 |
| Annual Reports | 4 |
| Campaigns | 3 |
| Newspaper Ads | 5 |
| Label Design | 3 |
| Direct Mail | 4 |

Films

Educational films on Health supplied to the community form an integral part of school and community educational programs. With the inception of the Health Education Section, demands for films have necessitated an annual increase in the size of the library until today some 950 films are available to the public. Rate of use has been relatively constant over the past two or three years, with 1964 statistics indicated on the following page.

January, 1964 - December, 1964

| Number of Films Processed | 5,785 |
|---------------------------|---------|
| Number of Bookings | 3,441 |
| Attendance | 211,827 |

Field Health Educators

A definite move toward an expansion in size of area covered by field health educators was made over the past year in two of the three regions covered by health educators.

The Health Educator in the Selkirk Health Unit, has on request, provided certain services to central office and the Kildonan-St. Paul Health Unit.

The Health Educator based in the Neepawa Health Unit, has now established a routine whereby nearly 50 per cent of her time is spent in the Portage Health Unit area and a small percentage of time and effort is directed in the Brandon Health Unit area.

The Health Educator in the St. Boniface Health Unit, concentrates most of his activities within that unit area but does periodically devote some small portion of his time to central office problems and projects.

Activities of field health educators at Selkirk, St. Boniface and Neepawa include:

- consultation services to all local health unit staff members on education techniques and assistance with the organization of local programs;
- provision of resource material for health unit public health programs;
- revision, co-ordination and supervision of summer school health education workshop;
- liaison with general public and publicity media;
- participation in revision of school curricula concerning health.

Field Health Educators - (Including Selkirk, Neepawa and St. Boniface)

| No. of Films Shown | 156 |
|---|--------|
| Attendance | 6,302 |
| Number of News Releases | 101 |
| Instruction Courses: | |
| a. Number of Classes | 46 |
| b. Attendance | 2,805 |
| Pamphlets Distributed | 16,036 |
| Assistance to Teachers Including Consultation and Talks | 71 |
| Talks to Lay Groups | 140 |
| Attendance | 3,346 |
| Lectures to Professional Groups | 14 |
| Attendance | 1,050 |
| Signs and Posters Made | 60 |

Nutrition Services

A general nutrition consultative service is provided by the nutritionist and major programs participated in included:

 Participated in the Health Education Summer School Workshop for Teachers through the presentation of lectures in nutrition relating to school health. Also lectured 125 students at Brandon Teachers College. Continued coordination and guidance for 28 white rat experiments in city and rural schools. Also assisted several schools in conducting food habit surveys.

Two prenatal institutes for nurses were held over the past year. The courses are given to nurses as pre-requisite for conducting prenatal classes in health units. Lectures on nutrition were presented to each group. In addition, ten prenatal nutrition classes were given by the nutritionist in health units, on request. Assistance was also provided to nurses on the assessment of prenatal food records and preparation of nutrition teaching material.

Assisted health unit and departmental personnel with nutritional and dietary problems and provided consultative services to volunteer organizations. Work in the volunteer field included six lectures to home nursing classes for the Canadian Red Cross Society, three lectures to Streamliners groups, two lectures to dietetic internes at the Misericordia and Deer Lodge Hospitals, and two lectures to the Neighborhood Service Centre.

Assistance was given to the Department of Welfare with diets and budgets.

Assisted in setting up a proposed Dietetic Internship Course in Public Health Nutrition - two weeks duration - should be in effect by June, 1965.

Consultant nutritional advice given to the nutritionist with Care Services program. In many cases, this has involved a visit to the home in question. Also checked plans for proposed new senior citizens home.

The Junior Nutritionist position, formerly with this section, has been seconded to Care Services to carry out quality control inspections in nursing homes in the province.

Nutrition Services

| Number of Rat Experiments | 28 |
|--|-----|
| Lectures to Professional Groups | 5 |
| Lectures to Lay Groups | 12 |
| Attendance | 449 |
| Instruction Classes (prenatal classes, prenatal institutes | |
| workshops) | 14 |
| Attendance | 234 |
| Number of Food Habit Surveys Conducted | 10 |
| (Follow up assistance in three schools involving | |
| 168 students.) | |

VITAL STATISTICS

The basic functions of the Division of Vital Statistics are:

Primary:

- (1) to register and permanently preserve the records of births, stillbirths, deaths and marriages of the people of the Province of Manitoba;
- (2) to issue certificates of birth, death and marriage from the records;

Secondary:

- (3) to tabulate, maintain and report the Vital Statistics data of the inhabitants of Manitoba;
- (4) to administer The Vital Statistics Act and The Marriage Act.

The Division receives weekly from the various 267 local and district registrars located throughout the Province, registrations of birth, stillbirth, death and marriage. These registrations are checked for accuracy, queried if necessary, individually numbered, coded and microfilmed, all under a system which is standard in all Canadian Provinces. A microfilm image of all original registrations is sent to the Dominion Bureau of Statistics in Ottawa for their tabulation and statistical use.

The Province of Manitoba has kept registrations of births, deaths and marriages since early in 1882 under governmental authority. This Division also maintains various Church records of baptisms, burials and marriages for different religious denominations dating back to 1812.

June 1964 Estimated Census Population Figures

| * | White Indian | | 930,000 28,000 |
|---|-----------------|-----|-------------------|
| | | All | 958,000 |

* Indian Population Figures Estimated from Indian Affairs Branch, Winnipeg, as of January 1965.

Summary of Births, Stillbirths, Deaths, Marriages

There were registered during the year 1964: 22,070 live births, 344 still-births, 7,823 deaths and 6,797 marriages. Also recorded were 804 adoptions, 359 legal changes of name, 544 dissolutions of marriage, six marriage annulments, 864 delayed registrations of birth and 9,431 free verifications of vital events to various Governmental Departments and private agencies.

Births (excluding Stillbirths), Marriages and Deaths -Manitoba, 1964 with Rates per 1,000 Population

| | 196 | 4 | 190 | 63 | 196 | 2 |
|----------------------|-------------|----------|--------------|---------|---------|------|
| | Number | Rate | Number | Rate | Number | Rate |
| Live Births: | | | | | | |
| White | 20,362 | 21.9 | 21, 371 | 23.1 | 21,728 | 23.7 |
| Indian | 1,708 | 61.0 | 1,648 | 63.4 | 1,541 | 59.3 |
| AII | 22,070 | 23.0 | 23, 019 | 24.2 | 23, 269 | 24.6 |
| Marriages: | | | | | | |
| White | 6,686 | 7.2 | 6,581 | | 6, 240 | 6.8 |
| Indian (on Reserves) | | 4.0 | 113 | 4.3 | 114 | 4.4 |
| All | 6,797 | 7.1 | 6,694 | 7.0 | 6, 354 | 6.7 |
| Deaths: | | 1 | | | | |
| White | 7,550 | 8.1 | 7,661 | 8.3 | 7, 249 | 7.9 |
| Indian | 273 | 9.8 | 308 | 11.8 | 284 | 10.9 |
| All | 7,823 | 8.2 | 7, 969 | 8.4 | 7,533 | 8.0 |
| | | | | | | |
| Tota | al Livebirt | hs, Dear | ths and Stil | lbirths | | |
| | 196 | 4 | 196 | 3 | 1962 | 2 |
| Live Births: | | | | | | |
| White | 20,0 | 03 | 21,0 | 52 | 21, 43 | 38 |
| Metis | 3 | 59 | 3 | 119 | . 29 | 90 |
| Non-Treaty Indian | | 01 | | 273 | | 50 |
| Treaty Indian | 1,4 | 07 | 1,3 | 375 | 1, 29 | 91 |
| All | 22, 0 | 70 | 23,0 | 19 | 23, 26 | 39 |
| Deaths: | | | | | | |
| White | 7, 4 | 86 | 7,6 | 00 | 7,20 | 9 |
| Metis | | 64 | | 61 | 4 | 10 |
| Non-Treaty Indian | | 25 | | 37 | | 38 |
| Treaty Indian | 2 | 48 | 2 | 71 | 24 | 16 |
| All | 7, 8 | 23 | 7,9 | 69 | 7,53 | 33 |
| Stillbirths: | | | | | | |
| White | 25 | 99 | 2 | 99 | 29 | 95 |
| Metis | | 7 | | 3 | | 2 |
| Non-Treaty Indian | 10000 | 5 | | 9 | | 5 |
| Treaty Indian | - | 33 | | 30 | 2 | 29_ |
| All | 34 | 44 | 3 | 41 | 33 | 31 |

Infant Mortality:

There were 570 infant deaths registered in 1964 giving an infant death rate of 26 per thousand live births.

| | Rates per 1,000 Live Births - Manitoba 1945-1964 | | | | | | | |
|------|--|------|----|------|----|------|----|--|
| 1945 | 48 | 1950 | 35 | 1955 | 31 | 1960 | 30 | |
| 1946 | 47 | 1951 | 33 | 1956 | 31 | 1961 | 25 | |
| 1947 | 46 | 1952 | 31 | 1957 | 32 | 1962 | 26 | |
| 1948 | 41 | 1953 | 35 | 1958 | 30 | 1963 | 25 | |
| 1949 | 41 | 1954 | 29 | 1959 | 27 | 1964 | 26 | |

1945-1962 - Dominion Bureau of Statistics figures. 1963-1964 - Vital Statistics final figures.

For purposes of statistical analysis, stillbirths are not included with live births, and therefore do not enter in the calculations of ''Infant Mortality''.

Maternal Mortality:

There were four maternal deaths registered in 1964 giving a maternal death rate of 0.2 per thousand live births.

Causes of Maternal Deaths - Manitoba 1964

| | White and Metis | Indian | All |
|---|--------------------|--------|-----|
| Toxaemias of pregnancy (642) | - | 1 | 1 |
| Delivery with specified complications (670-678) | 2 | - | 2 |
| Complications of the peurperium (680-689) | _ | 1 | 1 |
| Totals | 2 | 2 | 4 |
| Number per 1,000 Live Births | 0.1 | 1.2 | 0.2 |

Maternal wastage is usually measured by the ratio of deaths from puerperal causes to every 1,000 children born alive each year. The maternal death rate in Manitoba for the year 1964 is 0.2.

Ten Leading Causes of Death

| | Cause | Number | Rate |
|-----|--|--------|-------|
| 1. | Heart Disease | 2,554 | 266.6 |
| 2. | Cancer (Malignant Neoplasms) | 1,423 | 148.5 |
| 3. | Vascular Lesions affecting central nervous system | 840 | 87.7 |
| 4. | Accidents | 508 | 53.0 |
| 5. | Pneumonias | 409 | 42.7 |
| 6. | Hypertensive Disease | 142 | 14.8 |
| 7. | Arteriosclerotis | 131 | 13.7 |
| 8. | Birth injuries, postnatal asphyxia and atelectasis | 123 | 12.8 |
| 9. | Congenital malformations | 122 | 12.7 |
| 10. | Suicides | 96 | 10.0 |

Deaths in Manitoba by Age, Sex and Race (The total of each group compared with 1963 and 1962)

| | Wh | ite | Inc | dian | All | All | All |
|-------------------|-------|--------|------|--------|--------|--------|-------|
| | Male | Female | Male | Female | 1964 | 1963 | 1962 |
| Under 1 Year | 251 | 215 | 58 | 46 | 570 | 579 | 617 |
| 1 - 4 Years | 35 | 43 | 11 | 9 | 98 | 113 | 110 |
| 5 - 14 Years | 39 | 21 | 8 | 7 | 75 | 79 | 84 |
| 15 - 24 Years | 97 | 29 | 12 | 6 | 144 | 143 | 127 |
| 25 - 44 Years | 233 | 134 | 11 | 7 | 385 | 379 | 379 |
| 45 - 64 Years | 1,056 | 527 | 20 | 16 | 1,619 | 1,484 | 1,447 |
| 65 - 79 Years | 1,682 | 1, 143 | 22 | 16 | 2,863 | 3,015 | 2,763 |
| 80 Years and Over | 1,112 | 932 | 7 | 17 | 2,068 | 2, 176 | 2,005 |
| Not Stated | 1 | | - | | 1 | 1 | 1 |
| Totals | 4,506 | 3,044 | 149 | 124 | 7, 823 | 7,969 | 7,533 |

Deaths of Children Under One Year of Age By Cause and Age - Manitoba 1964

| | Under 7 Days | 7 - 28 Days | Over 28 Days to 1 Yr. | Under |
|--------------------------|-----------------|----------------|--------------------------|-------|
| White: | | | | |
| Lower respiratory | 10 | 10 | 36 | 56 |
| Immaturity | 66 | 1 | 1 | 68 |
| Congenital malformations | 36 | 15 | 31 | 82 |
| Birth injuries | 70 | 2 | - | 72 |
| Asphyxia and atelectasis | 32 | 4 | 6 | 42 |
| Gastro-intestinal | - | - | 7 | 7 |
| Ill-defined | 57 | 2 | 1 | 60 |
| Other | 26 | 9 | 44 | 79 |
| Totals | 297 | 43 | 126 | 466 |
| Indian: | | | | |
| Lower respiratory | 2 | 5 | 32 | 39 |
| Immaturity | 7 | - | - | 7 |
| Congenital malformations | 3 | 4 | 3 | 10 |
| Birth injuries | 4 | - | Maria Transaction | 4 |
| Asphyxia and atelectasis | 5 | - | - | 5 |
| Gastro-intestinal | - | 1 | 8 | 9 |
| Ill-defined | 2 | 1 | 3 | 6 |
| Other | - | 1 | 23 | 24 |
| Totals | 23 | 12 | 69 | 104 |
| White and Indian Totals | 320 | 55 | 195 | 570 |

ABBREVIATED LIST OF FIFTY CAUSES
Number of deaths and rates per 100,000 population - Manitoba 1964 White and Indian

| | White Including Metis | ling Metis | Indian | ian | To | Totals |
|--|-----------------------|------------|--------|--------|----------|---------|
| Cause Groups | Number | Rate | Number | Rate | Number | Rate |
| All Tuberculosis | (25) | (2.7) | (6) | (32.1) | (34) | (3.5) |
| Tuberculosis of respiratory system | 21 | 2.3 | 9 | 21.4 | 27 | 2.8 |
| Tuberculosis, other forms | 4 | 0.4 | 65 | 10.7 | 7 | 0.7 |
| Syphilis and its' sequelae | 60 | 0.3 | - | 1 | 8 | 0.3 |
| Typhoid fever | 1 | - | L | - | 1 | 1 |
| Cholera | | - | 1 | | 1 | |
| Dysentery, all forms | 2 | 0.2 | 1 | | 2 | 0.2 |
| Scarlet fever and streptococcal sore throat | | - | 1 | - | ı | |
| Diphtheria | 2 | 0.2 | 1 | 1 | 67 | 0.2 |
| Whooping cough | 1 | 0.1 | 1 | 3.6 | 2 | 0.2 |
| Meningococcal infections | 2 | 0.2 | 1 | , | 2 | 0.2 |
| Plague | | - | 1 | 1 | 1 | 1 |
| Acute poliomyelitis | - | 1 | - | | | - |
| Smallpox | | - | - | - | 1 | 1 |
| Measles | | 1 | 9 | 21.4 | 9 | 9.0 |
| Typhus and other rickettsial diseases | | 1 | 1 | 1 | | 1 |
| Malaria | | | - | - | | 1 |
| All other diseases classified as infective and parasitic | 14 | 1.5 | 9 | 21.4 | 20 | 2.1 |
| Malignant neoplasms, including neoplasms of lymphatic and | | | | | | |
| haematopoietic tissues | 1,403 | 150.9 | 20 | 71.4 | 1,423 | 148.5 |
| Cancer, excluding Hodgkins Disease, leukaemia and aleukaemia | - | (140.0) | (17) | (60.7) | (1, 319) | (137.7) |
| Hodgkins Disease | (61) | (2.0) | - | - | (19) | (2.0) |
| Leukaemia and aleukaemia | (82) | (8.8) | (3) | (10.7) | (82) | (8.9) |
| Benign and unspecified neoplasms | 19 | 2.0 | 2 | 7.1 | 21 | 2.2 |
| Diabetes Mellitus | 87 | 9.4 | 1 | 3.6 | 88 | 9.2 |
| Anaemias | 13 | 1.4 | 1 | 3.6 | 14 | 1.5 |
| Vascular lesions affecting central nervous system | 832 | 89.5 | 80 | 28.6 | 840 | 87.7 |
| Nonmeningococcal meningitis | 9 | 9.0 | 8 | 10.7 | 6 | 6.0 |
| Rheumatic fever | 4 | 0.4 | - | 1 | 4 | 0.4 |
| Chronic rheumatic heart disease | 73 | 7.8 | 1 | 3.6 | 74 | 7.7 |

ABBREVIATED LIST OF FIFTY CAUSES

Number of deaths and rates per 100, 000 population - Manitoba 1964 White and Indian

| Cause Groups | White Including Metis | ing Metis | Inc | Indian | To | Totals |
|---|-----------------------|-----------|--------|--------|--------|--------|
| | Number | Rate | Number | Rate | Number | Rate |
| Arteriosclerotic and degenerative heart disease | 2,404 | 258,5 | 21 | 75.0 | 2,425 | 253, 1 |
| Other diseases of the heart | 124 | 13.3 | 2 | 17.9 | 129 | 13.5 |
| Hypertension with heart disease | 105 | 11.3 | 53 | 7.1 | 107 | 11.2 |
| Hypertension without mention of heart disease | 33 | 3.5 | 23 | 7.1 | 35 | 3.7 |
| Arteriosclerosis | (130) | (14.0) | (1) | (3.6) | (131) | (13.7) |
| Influenza | 9 | 1 | 1 | | 9 | 9.0 |
| Pneumonia | 333 | 35.8 | 52 | 185.7 | 385 | 40.2 |
| Bronchitis | 99 | 0.9 | 7 | 7.1 | 58 | 6.1 |
| Ulcer of stomach and duodenum | 99 | 0.9 | 2 | 7.1 | 58 | 6.1 |
| Appendicitis | 7 | 8.0 | - | | 7 | 0.7 |
| Intestinal obstruction and hernia | 51 | 5.5 | 3 | 10.7 | 54 | 5.6 |
| Gastritts, duonenitis, enteritis and colitis except diarrhoea | | | | | | |
| of the newborn | 51 | 5.5 | 10 | 35.7 | 6.1 | 6.4 |
| Cirrhosis of liver | 51 | 5.5 | | | 51 | 5,3 |
| Nephritis and nephrosis | 40 | 4.3 | 4 | 14.3 | 44 | 4.6 |
| Hyperplasia of prostate | 27 | 2.9 | 1 | - | 27 | |
| Complications of pregnancy, childbirth and the peurperium | 23 | 0.2 | 2 | 7.1 | 4 | 0.4 |
| Congenital malformations | 109 | 11.7 | 13 | 46.4 | 122 | 12.7 |
| Birth injuries, postnatal asphyxia and atelectasis | 114 | 12.3 | 6 | 32, 1 | 123 | 12.8 |
| Infections of the newborn | 19 | 2.0 | 80 | 28.6 | 27 | 2.8 |
| Other diseases peculiar to early infancy and immaturity unqualified | 147 | 15.8 | 14 | 20.0 | 161 | 16.8 |
| Senility without mention of psychosis, ill-defined and unknown causes | 15 | 1.6 | 6 | 32, 1 | 24 | 2.5 |
| All other diseases | 731 | 78.6 | 19 | 67.9 | 750 | 78.3 |
| Motor vehicle accidents | 194 | 20.9 | 11 | 39.3 | 205 | 21.4 |
| All other accidents | 281 | 30.2 | 22 | 78.6 | 303 | 31.6 |
| Suicide and self-inflicted injury | 95 | 10.2 | 1 | 3.6 | 96 | 10.0 |
| Homicides and operations of war | 13 | 1.4 | 4 | 14.3 | 17 | 1.8 |
| Fractures, head injuries and internal injuries | 354 | 38.1 | 18 | 64.3 | 372 | 38.8 |
| Burns | 21 | . 2.3 | 7 | 25.0 | 28 | 2.9 |
| Effects of poisons | 19 | 7.2 | 2 | 7.1 | 69 | 7.2 |
| All other injuries | 140 | 15.1 | 111 | 39.3 | 151 | 15.8 |

Deaths Due to Diseases of the Circulatory System Manitoba - 1964

| White: | Under 45 | 45-64 | 65-79 | 80 & Over | Male | Female | All |
|-------------------------------------|----------|-------|-------|-----------|--------|--------|--------|
| Rheumatic fever | 2 | 1 | 1 | _ | 3 | 1 | 4 |
| Chronic rheumatic heart disease | 8 | 32 | 26 | 7 | 31 | 42 | 73 |
| Arteriosclerotic and degenerative | | | | | 3/0 | | |
| heart disease | 50 | 577 | 1,089 | 688 | 1,538 | 866 | 2,404 |
| Other diseases of heart | 6 | 12 | 43 | 63 | 70 | 54 | 124 |
| Hypertensive diseases | - | 22 | 62 | 54 | 61 | 77 | 138 |
| Diseases of arteries | 7 | 16 | 59 | 121 | 114 | 89 | 203 |
| Diseases of veins and other disease | 8 | | | | | | |
| of circulatory system | 2 | 12 | 48 | 29 | 55 | 36 | 91 |
| Associated Conditions; | 35 | 121 | 402 | 384 | 456 | 486 | 942 |
| Vascular lesions affecting central | | | | | | | |
| nervous system | 19 | 98 | 351 | 364 | 408 | 424 | 832 |
| Chronic nephritis | 12 | 6 | 2 | 3 | 13 | 10 | 23 |
| Diabetes Mellitus | 4 | 17 | 49 | 17 | 35 | 52 | 87 |
| Totals | 110 | 793 | 1,730 | 1,346 | 2, 328 | 1,651 | 3,979 |
| Indian: | | | | | | | |
| Chronic rheumatic heart disease | - | 1 | - | - | 1 | - | 1 |
| Arteriosclerotic and degenerative | | | | | | | |
| heart disease | - | 4 | 8 | 9 | 10 | 11 | 21 |
| Other diseases of heart | 2 | - | 3 | - | 1 | 4 | 5 |
| Hypertensive diseases | - | 2 | 2 | - | 1 | 3 | 4 |
| Diseases of arteries | 1 | - | - | 1 | 1 | 1 | 2 |
| Associated Conditions: | 3 | 1 | 5 | 3 | 4 | 8 | 12 |
| Vascular lesions affecting central | | | | | | | |
| nervous system | 1 | - | 4 | 3 | 3 | 5 | 8 |
| Chronic nephritis | 1 | 1 | 1 | - | 1 | 2 | 3 |
| Diabetes Mellitus | 1 | - | - | - | - | 1 | 1 |
| | 6 | 8 | 18 | 13 | 18 | 27 | 45 |
| White and Indian Totals | 116 | 801 | 1,748 | 1,359 | 2, 346 | 1,678 | 4, 024 |

Deaths Due to Malignant Neoplasms Showing Main Sites Manitoba - 1964

| | Under 45 | 45- 64 | 65 & Over | Male | Female | All |
|-------------------------------------|-------------|-----------|--------------|------|--------|-------|
| Buccal cavity and pharynx | - | 9 | 14 | 11 | 12 | 23 |
| Digestive organs and peritoneum | 20 | 134 | 338 | 289 | 203 | 492 |
| Respiratory system | 11 | 80 | 132 | 191 | 32 | 223 |
| Breast | 13 | 52 | 48 | - | 113 | 113 |
| Uterus | 8 | 20 | 28 | - | 56 | 56 |
| Female genital organs | 2 | 36 | 25 | - | 63 | 63 |
| Male genital organs | 2 | 12 | 82 | 96 | - | 96 |
| Urinary organs | - | 25 | 60 | 62 | 23 | 85 |
| Skin | 3 | 3 | 11 | 7 | 10 | 17 |
| Brain | 15 | 22 | 8 | 29 | 16 | 45 |
| Others | 6 | 16 | 35 | 37 | 20 | 57 |
| Neoplasms of lymphatic and haemato- | | | | | | |
| poietic tissue | 36 | 45 | 72 | 86 | 67 | 153 |
| Totals | 116 | 454 | 853 | 808 | 615 | , 423 |

Deaths from Malignant Neoplasms According to Area of Residence - Manitoba, 1964

| | Male | Female | All |
|---|------|--------|-------|
| Brandon C. | 28 | 21 | 49 |
| Portage la Prairie C. | 8 | 10 | 18 |
| St. Boniface C. | 31 | 23 | 54 |
| Winnipeg C. | 289 | 221 | 510 |
| St. James C. | 26 | 22 | 48 |
| East Kildonan C. | 23 | 21 | 44 |
| West Kildonan C. | 21 | 16 | 37 |
| St. Vital C. | 15 | 12 | 27 |
| Transcona C. | 10 | 4 | 14 |
| Towns and Villages (1,000 + population) | 85 | 66 | 151 |
| Urban Municipalities | 6 | 8 | 14 |
| Rural Municipalities | 200 | 152 | 352 |
| Local Government Districts | 22 | 12 | 34 |
| Unorganized Territory | 5 | 3 | 8 |
| Indian Reserves | 9 | 7 | 16 |
| Outside Manitoba | 30 | 17 | 47 |
| Totals | 808 | 615 | 1,423 |

Deaths from Tuberculosis By Age, Sex and Type Among White, Metis and Indian - Manitoba, 1964

| | Unde | er 25 | 25 - 64 | | 65 Over | | |
|-------------|------|--------|---------|--------|---------|--------|-----|
| | Male | Female | Male | Female | Male | Female | All |
| White: | | | | | | | |
| Respiratory | 1 | - | 5 | 3 | 10 | 2 | 21 |
| Other | - | - | 1 | - | 3 | - | 4 |
| Indian: | | | | | | | |
| Respiratory | - | - | 2 | 3 | - | 1 | 6 |
| Other | - | 1 | 1 | | - | 1 | 3 |
| Totals | 1 | 1 | 9 | 6 | 13 | 4 | 34 |

Deaths from Tuberculosis According To Area of Residence - Manitoba, 1964

| | Male | Female | All |
|---|------|--------|-----|
| Winnipeg C. | 11 | 3 | 14 |
| East Kildonan C. | 1 | 1 | 2 |
| Towns and Villages (1,000 + population) | 1 | 1 | 2 |
| Rural Municipalities | 5 | 1 | 6 |
| Local Government Districts | 1 | 1 | 2 |
| Indian Reserves | 2 | 4 | 6 |
| Outside Manitoba | 2 | - | 2 |
| Totals | 23 | 11 | 34 |

Number of Deaths Due to Motor Vehicle Accidents And Other Accidents - Manitoba 1955-1964

| Year | Motor Vehicle Accidents | Other Accidents | Total Accidents |
|------|----------------------------|--------------------|--------------------|
| 1955 | 108 | 294 | 402 |
| 1956 | 159 | 266 | 425 |
| 1957 | 163 | 301 | 464 |
| 1958 | 132 | 267 | 399 |
| 1959 | 153 | 271 | 424 |
| 1960 | 142 | 269 | 411 |
| 1961 | 160 | 289 | 449 |
| 1962 | 161 | 281 | 442 |
| 1963 | 177 | 273 | 450 |
| 1964 | 205 | 303 | 508 |

1955-1962 - Dominion Bureau of Statistics figures 1963-1964 - Vital Statistics final figures

REHABILITATION SERVICES

This section of the Department of Health is responsible for making available to all physically and mentally disabled children and adults of Manitoba, the services they require to attain their fullest physical, mental, social, educational and occupational usefulness of which they are capable within the limitations of their handicaps. These services include: -

- (a) Medical restoration including any medical, surgical or psychiatric procedures necessary to eliminate or reduce the handicapping condition.
- (b) Provision of prosthetic appliances such as braces, crutches, artificial limbs etc., including training in the use of same.
- (c) Counselling, academic training, vocational testing, pre-vocational education, vocational training, job placement and follow-up.

Rehabilitation Services has two major functions namely: -

- I The co-ordination of all government and voluntary agency resources providing services to physically and mentally handicapped persons. This is generally referred to as "co-ordination at the administrative level". The objective is to evaluate existing resources and to develop close working arrangements between these various resources in order to eliminate duplication and insure the most effective use of existing services and facilities.
- II The provision of an organized comprehensive rehabilitation service to all handicapped persons.

Rehabilitation of The Physically Handicapped

Five voluntary agencies are responsible for developing a counselling relationship with the disabled person and assisting him in utilizing all community resources for purposes of medical, social, vocational and occupational assessment. This is followed by the development of a rehabilitation objective related to the capabilities of the individual concerned and then assisting the individual in utilizing necessary services for achievement of the determined objective. The five agencies are:-

- (a) <u>Canadian National Institute for the Blind</u> responsible for blind persons and those with visual defects who are in danger of becoming blind unless properly treated. This agency is financed through Community Chest funds, a provincial grant and assistance from the Lion's Club.
- (b) Workmen's Compensation Board responsible for adults disabled through industrial accidents. The Board's program is financed by contributions from Industry.
- (c) <u>Sanatorium Board of Manitoba</u> responsible for children and adults disabled by tuberculosis. This agency is financed by federal-provincial funds and the annual Christmas Seal campaign.
- (d) <u>Indian Rehabilitation Program</u> responsible for Treaty Indian children and adults with any type of physical disability. The program is financed entirely by the Government of Canada through the Department of Citizenship and Immigration with the exception of vocational training

- costs which are met under the Technical Vocational Training Assistance Agreement. This program is administered on behalf of the Government of Canada by the Sanatorium Board of Manitoba. It was established under a separate agency because of the special attention that needs to be given to the cultural handicap of this group.
- (e) Society for Crippled Children and Adults of Manitoba responsible for all physically disabled children and adults that do not come within the scope of the aforementioned agencies. This is the largest agency of the five with an active annual case load of over 2800. This agency is financed by a large federal-provincial grant, the annual Easter Seal and March of Dimes campaigns. Their 1964 budget amounted to approximately \$1,000,000 of which approximately 50% was provided through Rehabilitation Services. This agency also provides special services to the other four agencies such as psychological assessment and the services of the Industrial Workshop.

With the exception of the Workmen's Compensation Board program, one would normally find these rehabilitation services provided directly through a government department. In Manitoba, it has been found that the delegation of this responsibility to well established voluntary agencies has proven to be a decided asset. It has permitted greater flexibility in program development and has also involved the participation of many leading community citizens.

It should be noted that these five agencies do not by themselves provide all of the services required by the particular disability group for whom they are responsible. Rather, it is their duty to co-ordinate all existing community resources on behalf of the particular group for whom they are responsible. It should also be noted that many of the required services are available to disabled persons as they are to the general population without cost. The costs are met in a variety of ways. In many instances the disabled person has financial resources to meet the cost of services. In other instances the individual may be able to meet part of the cost. In still others he may be a recipient of provincial or municipal welfare and certain costs will be met by this source.

If none of these resources are available to meet the necessary cost of services, the rehabilitation agency concerned has funds to cover these costs. In no instance need a physically disabled person in Manitoba go without service because of inability to pay. Through existing agencies and programs in the rehabilitation field, over 3500 children and adults were provided with service in 1964. They were assisted in obtaining services ranging from a single counselling session to comprehensive medical treatment, provision of prosthetic appliances, vocational training and job placement.

An analysis of 300 adult cases placed into competitive employment during the year clearly indicates the economic benefits of rehabilitation.

Estimated annual earnings \$ 600,000
Estimated annual payment to income tax
Cost of service for the 300 cases 120,000
Estimated annual provincial and welfare savings 75,000

Also, many hundreds of disabled persons were rehabilitated to sheltered employment in the community, in sheltered workshops, homebound employment and self care. In addition, many disabled children have been helped to take the maximum advantage of available educational services to equip them for happy

and useful lives in their community when they reach adulthood,

Rehabilitation of Mentally III

The vocational rehabilitation of the mentally ill is a direct responsibility of the Rehabilitation Services Division. One full time vocational rehabilitation counsellor works in close co-operation with the mental hospitals, private psychiatrists and community agencies.

During the past year over 150 mentally ill persons have been accepted for vocational rehabilitation services.

Effective use has been made of the Selkirk Vocational Centre which is now known as Skills Unlimited (Selkirk). This Centre is designed to provide a three-week work assessment and a six-month work training period to selected candidates from the Selkirk Hospital for Mental Diseases.

As a direct result of this facility, ten patients have been moved into full-time competitive employment. These ten patients have spent from five to fifteen years in the Selkirk Hospital for Mental Diseases. In addition the Centre has been a major factor in facilitating the discharge of a large number of mentally ill persons to the community, many of whom are capable of engaging in employment under sheltered conditions.

The success of the Selkirk Workshop stimulated the establishment of a second facility for the mentally ill in Winnipeg. This is known as Skills Unlimited (Winnipeg). It is designed to handle up to 75 patients per day in work assessment, work training or remunerative sheltered employment. This new facility was opened on July 1, 1964 with a grant of \$15,000 from the Department of Health. Since that time twelve persons have been rehabilitated to full-time competitive employment.

Both Selkirk and Winnipeg workshops obtain sub-contracts from Winnipeg industry. The support of Winnipeg industry has been most gratifying and indications are that even greater participation will be forthcoming.

During the past year, the Director has held several meetings with Officials of the Brandon Hospital for Mental Diseases and interested Brandon businessmen relative to the need for a sheltered workshop in Brandon. A Provisional Board has been established composed of ten businessmen and they are exploring this matter in detail. This group has suggested that a workshop be established in Brandon to provide work assessment, work training and remunerative sheltered employment to all types of handicapped conditions including the mentally ill.

A Rehabilitation Team has been established at the Selkirk Hospital for Mental Diseases which includes representation from the Hospital, a vocational rehabilitation counsellor from the Rehabilitation Services Division and a special service officer from the National Employment Service. This team approach which is an essential facet of vocational rehabilitation will considerably improve the service to psychiatric patients.

To handle referrals from other than the mental hospitals, a community team will be established shortly, composed of a vocational rehabilitation counsellor, a representative from the National Employment Service and a parttime psychiatric consultant.

Assistance to the Mentally Retarded

On April 1st 1964, the vocational rehabilitation of the mentally retarded became a direct responsibility of the Rehabilitation Services Division. Since 1945, the vocational rehabilitation of the mentally retarded was restricted to

female and male candidates from the Manitoba School for Mental Defectives at Portage la Prairie who were considered capable of engaging in selected employment in the Winnipeg community. The tremendous success with this group stimulated the establishment of a new expanded program which continues to accept referrals from the Manitoba School and also handles referrals from the community at large. The program is financed jointly by federal and provincial government funds under the Vocational Rehabilitation of Disabled Persons' Agreement.

The primary objective of this new service is to assist selected mentally retarded adults toward a substantially gainful occupation in competitive or sheltered employment in the community. The program does not by itself provide all of the services required by the mentally retarded persons but rather coordinates all existing government and voluntary agency resources on behalf of these individuals.

Success with the selected group from the Manitoba School for Mental Defectives can be attributed directly to the excellent social and occupational training provided by the school.

There is a very close working relationship between this program and the Manitoba Association for Retarded Children. This voluntary organization operates special classes for over 600 trainable retarded children, a work adjustment centre for over 50 adults in the Winnipeg community and a diversional activity centre for another 50 adults from the Winnipeg community. They are now giving consideration to the establishment of similar work adjustment and diversional activity centres in other parts of the province. This association also operates an excellent summer camp each year for a large number of mentally retarded persons.

Vocational Rehabilitation Program for the Mentally Retarded

| | | 1964 | 1963 |
|--------------------------------------|----------------|------------------|---------------------------|
| Total number in Care | - men women | 128 70 198 | 23 23 46 |
| New Admissions | - men women | 122 59 181 | $\frac{11}{\frac{6}{17}}$ |
| Total Number of Employers | - men women | 39 25 64 | 22 <u>17</u> 39 |
| Total Number of Foster Homes Used | women | 26 13 39 | $\frac{22}{\frac{7}{29}}$ |

As at December 31, 1964, there were 92 persons in full employment.

Rehabilitation of the Alcoholic

During the past year, programs of the Alcoholism Foundation of Manitoba and the Salvation Army Harbour Light Centre have demonstrated their effectiveness in assisting many alcoholics towards useful and independent lives in their community. Further expansion of these programs is now underway.

PSYCHIATRY

PSYCHIATRIC SERVICES

Psychiatric services are designed to:

- prevent mental illness
- assist those suffering from mental illness
- assist those who have required hospital treatment to return to a normal way of life in the community.

Services are centered in three hospitals for mental diseases and one school for mentally defective persons.

Institutions include:

- 1. The Brandon Hospital for Mental Diseases
- 2. The Selkirk Hospital for Mental Diseases
- 3. The Psychiatric Institute in Winnipeg (56 beds)
- 4. The Manitoba School for Mentally Defective Persons

To supplement these facilities, there are four General Hospitals in Winnipeg with approximately 140 psychiatric beds and the 135 bed St. Amant Ward in St. Boniface for mentally defective children up to six years of age.

Out-Patient Departments for adults are operated by the two hospitals for mental diseases, the Psychiatric Institute and three of the four general hospitals.

Community mental health clinics which provide diagnostic and treatment facilities for designated geographic areas are operated out of the two hospitals for mental diseases. These clinics uncover cases of mental illness in the early stages when they can be treated effectively.

OBJECTIVES

The year 1964 has shown a continuation of a trend in psychiatric services which has been in evidence for 15 years. This trend is an accelerating increase in demands for all available types of psychiatric service. In more recent years there has become evident in this trend, a change in emphasis on type of service demanded. This change is shown in the rapidly increasing demand for help at the community level and a relative decrease in the demand for service for hospital patients.

The open-door policy which was being emphasized in the mental hospital ten years ago has now led to the extension of community-based services providing for many more patients in the home situation rather than in the in-hospital setting. This community emphasis is partly made up of the continuing treatment of the former hospital patient in his community environment. This is in recognition of the very significant importance of the 'follow-up' service for patients who have at some time required in-hospital treatment. However, those persons in the community who suffer from lesser degrees of mental symptoms, but who, nevertheless have discomfort sufficient to interfere with application of themselves to their work and adaptation to society, are recognizing in rapidly increasing numbers that their symptoms can be lessened and adjustment increased by psychiatric advice and treatment on an out-patient basis.

There is also a similar increase in demand for community services for children, adolescents and adults who suffer from varying degrees of mental

retardation. Parents are realizing to an increasing degree, that the retarded child can be helped at various levels, that he can be trained within the home, or with short-term institutional care, to adopt improved habits of socialization, and that definite progress can be achieved in the schools for trainable retardates. From this appreciation there results increasing pressures for adequate facilities and trained personnel to provide these services.

A third area of psychiatric need which is becoming more pressing is facilities for assessment and treatment of the emotionally disturbed child, especially for those children whose symptoms are so severe they cannot be coped with except in a hospital setting which has provisions for both short-term and long-term care, treatment and supervision.

ACHIEVEMENTS

All reports from the various departments of the Psychiatric Service show a very considerable increase in services provided during the year.

The in-patient services of three mental institutions experienced an increase of admissions and discharges over the prior year, an experience which has been in evidence since 1958.

| | 1 | Patient I | Populatio | n | | | |
|--|------|-----------|-----------|------|------|------|------|
| | 1964 | 1963 | 1962 | 1961 | 1960 | 1959 | 1958 |
| Patient Population Decrease in Patient | 2433 | 2613 | 2779 | 2935 | 3112 | 3189 | 3222 |
| Population | 180 | 166 | 156 | 177 | 77 | 33 | |

Total Decrease in Patient Population since 1958 ----- 789.

| | | | | Male | Female | Total | Total Previous Year |
|---------------------|----------|----------|---------|------|--------|-------|---------------------------|
| On Register Decemb | er 31, | 1963 | | 1400 | 1213 | 2613 | 2779 |
| On Parole or Otherv | vise Abs | sent | | 131 | 141 | 272 | 241 |
| Remaining in Hospit | als Dec | ember 31 | 1, 1963 | 1269 | 1072 | 2341 | 2538 |
| Admissions: | Male | Female | Total | | | | |
| Winnipeg Psychiatri | c | | | | | | |
| Institute | 499 | 476 | 975 | | | | |
| Brandon Mental | | | | | | | |
| Hospital | 296 | 276 | 572 | | | | |
| Selkirk Mental | | | | | | | |
| Hospital | 317 | 320 | 637 | | | | |
| Total | 1112 | 1072 | 2184 | | | | |
| | | | | | | | |
| Less Transfers betw | | 100 | 000 | | | | |
| Hospitals | 153 | 130 | 383 | | | | |
| Total Direct Admiss | sions | | | 959 | 942 | 1901 | 1679 |
| Total Under Treatm | ent | | | 2359 | 2155 | 4514 | 4458 |

| Separations: | Male | Female | Total | Male | Female | Total | Year |
|----------------------|-----------|----------|--------|---------|-----------|------------|------|
| Discharges - exclusi | ive of Ti | ransfers | from W | innipeg | Psychiatr | ric Instit | ute |
| Winnipeg Psychiatri | c | | | | | | |
| Institute | 356 | 344 | 700 | | | | |
| Brandon Mental | | | | | | | |
| Hospital | 278 | 280 | 558 | | | | |
| Selkirk Mental | | | | | | | |
| Hospital | 325 | 331 | 656 | | | | |
| Total Discharges | | | | 959 | 955 | 1914 | 1675 |
| Deaths | | | | 98 | 72 | 170 | 219 |
| Total Separations | | | | 1057 | 1027 | 2084 | 1894 |
| | | * | | | | - | |
| Remaining in Hospita | als Dece | mber 31 | , 1964 | 1192 | 1036 | 2228 | 2341 |
| On Parole or Otherw | ise Abs | ent | | 114 | 91 | 205 | 272 |
| Total on Registers D | ecembe | r 31, 19 | 64 | 2306 | 2127 | 2433 | 2613 |
| | | | | | | | - |

Statistics show a ten percent increase in patients under treatment due to a proportionate increase in admissions. Discharges from these hospitals has continued to surpass total admissions resulting in another decrease in total patient population in mental hospitals. The decrease in 1964 was 180 patients, the total decrease in patient population since 1958 has been 789 - from 3, 222 patients in 1958 to 2, 433 patients in 1964.

The St. Amant Ward of the St. Boniface Sanatorium continued to function at its full capacity of 134. No extension of facilities were provided but services of a qualified pediatrician to ensure full-time medical care were obtained. Plans are now underway to increase this capacity to 175 in 1965 and by 1968 to operate the whole sanatorium as a centre for care, treatment and training of the grossly retarded child in the younger age groups and the care and treatment of all retardates with physical handicaps requiring in-hospital nursing care.

Child Guidance

The Child Guidance Clinic of Greater Winnipeg continues to expand its very useful services. The total staff of the Clinic now numbers 87. There were over 7,000 children seen in all clinic departments in 1964. These children required a total of 9,966 assessments, an increase from 8,592 in the previous year. Increasing emphasis is placed on the treatment program in the clinic with significant satisfactory results.

The opening of the Child Development Clinic at the Children's Hospital this year will produce information which will be of very significant importance to the Child Guidance Clinic in the years immediately ahead. The problems of many children will have been assessed before they reach school age.

The Child Guidance facilities at the Brandon Mental Hospital were much improved with the completion of new quarters. During the year, there were 1,134 children seen in the clinic including 530 new patients. Total visits of these children numbered 2,367. In addition to these there were 502 children examined at the Travelling Clinics.

Out-Patients

The Out-Patient Departments of all our psychiatric facilities have again shown a very marked increase in services. In addition to services for children there was a total of 4,622 adult out-patients under treatment. These patients were seen for a total of 21,113 visits. These totals include follow-up visits of former in-patients. The increase over last year is approximately 18 percent with a total increase of over 100 percent in the past five years.

The newly-opened Selkirk Psychiatric Institute is a very significant and handsome addition to the total psychiatric facilities. It exemplifies the growing demand for community psychiatric services on a basis equal to the services provided for any other form or type of medical illness.

Psychiatric Institute

The Psychiatric Institute serves as a regional hospital for the Winnipeg area and for that portion of the province lying to the south and east. It functions as a short-term treatment and diagnostic centre in the Provincial Mental Health System serving a population which includes more than one half of the total population of the province.

In the past decade a combination of factors including the increasing application and effectiveness of psychiatric therapies, together with the shifting of population and concentration in the urban metropolitan area, have brought about a tremendous increase in the demand for service from this hospital. In the past year, the admission rate again increased by more than eight percent which is a total increase for the ten year period of over eighty percent.

Special problems are created at the institute by three categories of patients; juveniles, alcoholics and geriatric cases. These categories comprise only about one quarter of the total patients admitted to the hospital but are difficult to rehabilitate and return to the community because of the necessity of finding special programs and community resources to adequately meet the needs of continued care.

Other trends include a continuing decline in transfers to other mental hospitals, which this year decreased by a further seven percent, and the decline in average length of hospital stay which this year is just under twenty days. Both these figures reflect the intensity of work on the in-patient medical service.

The Out-Patient Department of the hospital functions as a Mental Health Clinic. Part of its work is in continued therapy for former in-patients. The remainder is a consultation, diagnostic and treatment service to which patients are referred by a wide variety of agencies in addition to family physicians and psychiatrists in private practice.

During the past year some 335 new adult patients were added to the case load of this department, in addition to the referrals from the in-patient service and to those patients already being carried in treatment. A total of some 6,800 individual examinations and interviews were conducted which represents an increase of about twenty-five percent. The travelling clinic, composed of a psychiatrist and a psychological team, visited five rural areas for the purpose of examining school children at the request of the Department of Education and a total of eighty-four children were evaluated.

Movement of Patients

| | | Total |
|---|-------|-----------|
| | 1964 | Previous |
| | Total | Year |
| Remaining in Hospital December 31, 1963 | 41 | 48 (1962) |
| Admissions: | | |
| First Admissions | 569 | 466 |
| Re-admissions | 406 | 418 |
| Total Admissions | 975 | 884 |
| (Less transfers from Mental Hospitals - | 10 | 0.4 |
| Brandon, Selkirk, Portage la Prairie) | _13 | _24 |
| Total Direct Admissions | 962 | 860 |
| | = | |
| Methods of Admission | | |
| General | 642 | 553 |
| Voluntary | 201 | 179 |
| Commitments | 109 | 117 |
| Retakes from Probation or Elopement | 5 | 6 |
| Medical Certificates | 5 | 5 |
| Total patients under treatment | 1016 | 908 |
| | | |
| Separations | | |
| Direct discharges | 685 | 582 |
| Transfers to Mental Hospitals | | |
| (including return of transfers) | 258 | 292 |
| Transfers to Manitoba School | | |
| (including return of transfers) | _13 | 10 |
| Total Discharges | 956 | 884 |
| Deaths | 5 | 9 |
| Total Separations | 961 | 893 |
| | _ | _ |
| Remaining in Hospital December 31, 1964 | 55 | 41 |
| Percentages of Deaths of Total Under | | |
| Treatment | .41 | 1.03 |
| Average Daily Population | 52.6 | 50.57 |
| Average Duration of Stay | 19.69 | 20.88 |
| Rated Capacity of Hospital | 56 | 56 |
| | | |

Forensic Service

During the past year a total of 175 referrals were made to the Institute by the courts and the probation service. This again represents an appreciable increase over the preceding year and indicates the increasing awareness of the courts of the use that can be made of psychiatric services in evaluating offenders and arranging psychiatric treatment where this proves to be indicated. Of the total examined, some thirty-one were subsequently admitted to one of the mental hospitals for continued investigation and treatment and a further number were continued in out-patient therapy while on probation or under sentence.

Teaching Program

The various members of the hospital staff continue as in previous years to fulfill a wide variety of responsibilities in several teaching and instructional programs. Included in this is the instruction and training of both undergraduate and postgraduate medical students. Didactic instruction and clinical seminars are also being provided for the Winnipeg General Hospital School of Nursing and for the School of Rehabilitation Medicine. In-service training experience for the School of Social Work was provided in 1964 and various staff members for both professional groups and members of the lay public.

Brandon Hospital for Mental Diseases

Objectives of programs centred in the Brandon Mental Hospital are to provide comprehensive psychiatric services to that portion of Manitoba west of, and including, Portage la Prairie. During the year, until September 1, 1964, the clinical services were organized into five psychiatric teams, with an additional Infirmary and Geriatric Service. On September 1, 1964 the region serviced by this hospital was subdivided into three geographical areas, corresponding to the existing Public Health Divisions, and called the Eastern, Western and Northern divisions respectively.

The Eastern division is essentially the Public Health area of Neepawa, Ste. Rose du Lac, and east to Portage la Prairie. The Western area includes the Birtle Public Health area west of Riding Mountain National Park, the Virden and the Brandon Public Health areas, and the area south of this to the United States border. The Northern area is essentially that area north of the Riding Mountain National Park.

Each of these areas is now served by a corresponding service, each with its own adult in-patient facility, adult out-patient referral, and responsibility for follow-up care. At present all Child Guidance and Travelling Clinics are the responsibility of Team 3 (Northern Division). Each service is responsible for the care and treatment of a proportion of continued service patients.

There continues, as previously, the Infirmary and Geriatric Service which gives these services to suitable patients already in the Hospital, and to which are admitted suitable Patients on their arrival at the Hospital. All proven effective methods of treatment for the mentally ill are employed at the Brandon Hospital.

There is general use of Electroconvulsive Therapy, and measures to better coordinate this procedure have been instituted. Techniques used,

precautions taken, and available equipment, have all been carefully reviewed.

Coma insulin is used on a small scale.

As of November 30, 1964, the Hospital population was 1,284 with 670 male and 614 female patients (including those on leave pass), this being a further drop of 55 patients over 1963.

Patient Population Movement

| | | 1964 | 1963 | 1962 | 1961 | 1960 |
|----|-----------------------------------|-------|-------|--------|-------|-------|
| 1. | Average Daily Patient Population | 1319 | 1363 | 1467 | 1569 | 1620 |
| 2. | % Discharged of Total Admissions | 97.5% | 90.6% | 107.3% | 116% | 77.3% |
| 3. | % Deaths of Total Under Treatment | 4.21% | 7.8% | 4.02% | 3,29% | 3.81% |
| 4. | Change in Patient Population | -55 | -104 | -102 | -51 | -10 |

The annual per capita cost was \$1,924.48, an increase of \$266.42 over the previous year.

The daily per capita cost was \$5.28, the per capita cost for the previous year being \$4.54.

Total net costs were \$2,598,050.53, an increase of \$210,432.63 over the previous year's \$2,387,617.90.

MOVEMENT OF PATIENTS

January 1, 1964 to December 31, 1964.

| | | | | Male | Female | Total | | |
|---|----------|--|-------|------------|--|-------------------|--|--|
| | | | | 710 _41 | 629 57 | 1339 <u>98</u> | | |
| Total on Books as at Decen | nber 31, | 1963. | | 751 | 686 | 1437 | | |
| FIRST ADMISSIONS | Male | Female | Total | | | | | |
| General Admissions | 38 | 56 | 94 | | | | | |
| Voluntary Admissions | 52 | 77 | 129 | | | | | |
| Other Sources | _22 | _9 | _31 | | | | | |
| | 112 | 142 | 254 | | | | | |
| READMISSIONS | | | | | | | | |
| General Admissions | 22 | 14 | 36 | | | | | |
| Voluntary Admissions | 78 | 76 | 154 | | | | | |
| Other Sources | _29 | 16 | 45 | | | | | |
| | 129 | 106 | 235 | | | | | |
| TRANSFER ADMISSIONS | | | | | | | | |
| From Psycho and other | | | | | | | | |
| Manitoba Hospitals | 55 | 28 | 83 | | | | | |
| | | | | | The second secon | | | |
| | | | | 1047 | 962 | 2009 | | |
| | | | | | | | | |
| | (40) | (00) | (00) | | | | | |
| | (40) | (20) | (60) | | | | | |
| Return from Probation | (15) | (11) | (26) | | | | | |
| On Probationary Discharge or Otherwise Absent 41 57 98 Total on Books as at December 31, 1963. 751 686 1437 FIRST ADMISSIONS Male Female Total General Admissions 38 56 94 Voluntary Admissions 52 77 129 Other Sources 22 9 31 112 142 254 READMISSIONS 78 76 154 Other Sources 29 16 45 129 106 235 TRANSFER ADMISSIONS 83 296 276 572 Manitoba Hospitals 55 28 83 296 276 572 1047 962 2009 2009 2009 2009 2009 2009 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | 9 | 2 | 11 | | | | | |
| | 66 | 46 | 112 | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Undiagnosed | | Control of the last of the las | | | | | | |
| | 278 | 280 | 558 | | | | | |
| DEATHS | 51 | 31 | 82 | 329 | 311 | 640 | | |
| Remaining on Books as at I | Decembe | er 31, 1964 | ١. | 718 | 651 | 1369 | | |
| | | | | | | | | |
| On Probationary Discharge | or Othe | erwise Abs | ent. | 48 | 37 | 85 | | |
| Total on Books as at Decem | ber 31, | 1964. | | 718 | 651 | 1369 | | |

DISCHARGES 1964 - BRANDON HOSPITAL FOR MENTAL DISEASES

| DIAGNOSIS | | TI | ME IN | HOSPI | TAL | | |
|----------------------------------|-------------|-------------|--------------|-------------|-------------|-----------------|-------|
| | 0-3 Mos. | 4-6 Mos, | 7-12 Mos. | 1-2 Yrs. | 2-5 Yrs. | Over 5 Years | Total |
| | | | | | 100 | A SHA | |
| Schizophrenia | 121 | 49 | 27 | 18 | 10 | 21 | 246 |
| Manic Depressive | 31 | 7 | 5 | 1 | 1 | 2 | 47 |
| Paranoid Condition | 3 | - | 2 | - | 1 | 2 | 8 |
| Senile Psychosis | 6 | 1 | 1 | - | | | 8 |
| Pre-Senile Psychosis | 1 | - | - | - | - | - | 1 |
| Psychosis with Cerebral | | | | | | | |
| Arteriosclerosis | 2 | 1 | 2 | - | 1 | - | 6 |
| Psychosis due to Alcohol | 5 | 2 | - | 1 | - | - | 8 |
| Psychosis due to Epilepsy | . 2 | - | - | - | 1 | 1 | 4 |
| Psychosis with Mental Deficiency | 1 | - | 3 | - | 1 | 2 | 7 |
| Other and Unspecified Psychosis | 17 | 3 | 1 | 1 | - | - | 22 |
| Psychoneurosis | 70 | 7 | 2 | - | - | - | 79 |
| Personality Disorders | 48 | 6 | - | 3 | 1 | - | 58 |
| Adult Maladjustment | 4 | - | 1 | - | - | - | 5 |
| Chronic Brain Syndrome | 3 | 1 | - | - | - | - | 4 |
| Alcoholism | 23 | 4 | 3 | - | - | - | 30 |
| Mental Defective | 4 | 2 | - | - | - | 1 | 7 |
| Epilepsy | 10 | 2 | - | 1 | - | 1 | 14 |
| Non-Psychotic and Observation | 1 | - | - | - | 1 | - | 2 |
| Undiagnosed | 2 | - | - | - | - | - | 2 |
| | 354 | 85 | 47 | 25 | 17 | 30 | 558 |

Special Rehabilitation Procedures

(a) Programs based on Communication

Patient self-government has been continued on some wards, and used in a modified form on other wards.

Current events, group discussions, and formal group psychotherapy sessions are held.

(b) Programs based on Work, Occupational Therapy Good use has been made of available facilities for work therapy,

industrial therapy and occupational therapy.

The occupational therapy shops and classes are active. Many articles are sold in consistently substantial numbers.

Industrial therapy is increasing in scope. Emphasis is laid on regular attendance, punctuality, acceptance of work assignments, and good work quality. During the year, 245 Patients have worked in these shops, and of these, 100 have been probated or discharged. Sales of articles produced are substantial. Patients receive some remuneration, most Patients receiving \$1.00 per week. Financial control is through Mental Health Industries, a joint project of the Brandon Branch of the Canadian Mental Health Association and the Hospital.

Canteens operated by Patients, have been continued.

- (c) <u>Special Facilities</u> for rehabilitation of Patients in domestic skills were established during the year in one of the team services.
- (d) Programs based on recreation have been carried out to the same degree as in previous years.

Clinical Research by Teams

- Investigation of an injectable drug in Electroconvulsive Therapy to prevent spinal fractures.
- Continuation of investigation of drug therapy in various psychiatric disorders, including anti-depressants, and new anti-epileptic medications.
 The usefulness of prolonged action drugs is being investigated.
- 3. An investigation of the application of speech therapy in an effort to correct schizophrenic language and thought disorder.
- 4. Problems of psycho-therapy in Schizophrenia.
- 5. The value of pictorial art in psychoses.

Reducing Hard-Core Population

Constant attention is focused on the difficult residual group of Patients in the Hospital, which comprises two-thirds of the patient population. Many in this group are now elderly and suitable for Nursing Home Placement or family care. Every effort is made to expedite transfer of this group to other community resources.

Movement to the Community

In this large rural area, the Hospital serves as the hub of the regional mental health program.

Clinics from the Hospital, working with local health units, provide followup care for patients discharged from hospital, and also see new patients (adults and children). Closer centres are visited for one day monthly, those at a greater distance for two days monthly, and more distant centres are visited for two to three days every three months.

During the year, to November 30, psychologists completed 4,721 tests and dealt with 278 in-patients, 177 adult out-patients and 979 children.

There has been an increased demand for ungraded class assessments.

OUT-PATIENTS SEEN BY PSYCHIATRISTS, OR PSYCHOLOGISTS, OR SOCIAL WORKERS, OR SPEECH THERAPISTS. DURING 1964.

| SPEECH THERAPISTS, DURING 1964. | | | | | | | | | | | |
|---------------------------------|-----------------|-----------------|----------------|--------------------|--------|--|--|--|--|--|--|
| |) Adults |) New Cases | 565 | Number of Visits | 2, 245 | | | | | | |
| |) |) Carried Over | 672 (Estimate) | Number of Visits | 1, 546 | | | | | | |
| BRANDON |) | | | | | | | | | | |
| |)) Children |) New Cases | 530 | Number of Visits | 1,045 | | | | | | |
| | |) Carried Over | 634 (Estimate) | . Number of Visits | 1,322 | | | | | | |
| |) Adults |) New Cases | 144 | Number of Visits | 282 | | | | | | |
| |) |) Carried Over | 117 (Estimate) | Number of Visits | 427 | | | | | | |
| TRAVELLING |) | | | | | | | | | | |
| |)) Children |) New Cases | 387 | Number of Visits | 387 | | | | | | |
| | |) Carried Over | 115 (Estimate) | Number of Visits | 277 | | | | | | |
| | TOTAL 1 | NUMBER OF NE | EW CASES | 1,626 | | | | | | | |
| | TOTAL 1 | NUMBER OF CA | ASES CARRIED | 1 529 | | | | | | | |
| | TOTAL 1 | | SITS | | | | | | | | |
| N | EW CASE | S - SOURCES O | F REFERRAL (| Estimates). | | | | | | | |
| | Cour | rts | 43 | | | | | | | | |
| | Outs | ide Hospitals . | 84 | | | | | | | | |
| | | Referrals | | | | | | | | | |
| | | ic Health | | | | | | | | | |
| | | sicians | | | | | | | | | |
| | | al Agencies | | | | | | | | | |
| | | rs | | | | | | | | | |
| | | Total | 1,626 | | | | | | | | |

The Infirmary, Geriatric, and Tuberculosis Service has been under the direction of a specialist in Internal Medicine for the latter part of the year.

During the year, to November 30, 12 operations were performed in the Brandon Mental Hospital and 42 at the Brandon General Hospital, on mental hospital patients.

Staff from the Brandon Mental Hospital provided custodial care on many of the patients sent to the Brandon General Hospital.

Teaching clinics for all nursing staff were held on interesting cases, medical and surgical.

Laboratory

1. Education

- (a) Combined Laboratory and X-Ray Course. Seven students graduated and were placed in positions. Ten students are in second year training. Thirty students were accepted for training on September 1, 1964.
- (b) Straight Laboratory Course

 Five students are in second year training. Two students were accepted for training on September 1, 1964.
- (c) The didactic training of students is given at the Manitoba Institute of Technology with further experience and training provided at the Branch Laboratory at the Brandon Mental Hospital.

Social Service Department

This department records admissions and social histories, maintains contact with families, places and supervises patients in foster homes, finds employment for patients and interprets mental health needs and programs to community agencies and groups.

During the year, there has been an increase in the number of chronically ill persons placed in foster homes. Eighty-one patients have now been established in homes under this program.

Statistical Research

Monthly statistical records are compiled in this department, covering the medical and paramedical services. Plans are now completed to provide similar monthly statistics on the various management programs for 1965.

Two papers on work done on administrative research projects have been published (or accepted for publication).

Biochemical Research

A research project concerned with the biochemical investigation of patients giving a superior response to phenothiazines was terminated in March 1964. The biochemical research section was then reorganized to carry out short-term investigations for medical staff on selected patients, plus special biochemical service for this hospital and the laboratory services of the Department of Health.

Since this laboratory first began doing special biochemical tests in 1961, there has been a steady increase in the number and type of tests being performed.

The laboratory has developed and adopted a number of new methods, in efforts to improve special biochemical methods already in use.

Canadian Mental Health Association

Valuable assistance to hospital programs was provided by the Brandon branch of the Canadian Mental Health Association during the year. Developments included:

- An expansion of the bowling program for hospital patients to 80 patients per week.
- Establishment of a housekeeping unit in a female ward, designed to re-train patients in housekeeping arts.
- Organization of a new group of volunteers to work in the Women's Pavilion.

Federal Health Grand funds provided books and equipment for libraries and service units, supplied bursaries for student technicians, some staff, and funds for two research projects.

Nursing Training - 1964

A training school for nurses has operated as in previous years.

| | Number at Graduation Date | Total Number in School on Enrolment Date |
|---|---------------------------------|--|
| Licensed Practical and Psychiatric Nurses | 16 | 54 |
| Male Psychiatric Nurses | 13 | 33 |
| Post-Graduate Psychiatric Nursing Course | | 5 |

Selkirk Hospital for Mental Diseases

The Selkirk Hospital for Mental Diseases provides a full spectrum of psychiatric services for the population it serves. This involves direct service to about 80,000 persons and final treatment facilities for two-thirds of the persons residing in Manitoba. Service areas include in-patient, out-patient and community clinic facilities. Duties of the professional staff overlap so that all proven methods of therapy are available in each area.

The Selkirk Hospital for Mental Diseases has a wide base of therapy and is extensively involved in community activities of therapy, follow-up, teaching and research.

| Mo | | Total | | | | | |
|---|------------|---------|-------------|------|---------|----------------|----------|
| | | | | | | | Previous |
| | | | | M | F. | T. | Year |
| On Register as at December | 31, | 1963 | | 629 | 506 | 1135 | 1229 |
| On Probation as at December | er 31, | 1963 | | 90 | 84 | 174 | 158 |
| Remaining in Hospital as at | Dece | ember 3 | 31, 1963 | 539 | 422 | 961 | 1071 |
| Admissions: - | | | | | | | |
| | <u>M</u> . | F. | T. | | | | |
| Direct Admissions | 226 | 224 | 450 | | | | |
| Transfers | 91 | 96 | 187 | | | | |
| Total Admissions | | | | 317 | 320 | 637 | |
| | | | | | | | |
| Separations: - | | | | | | | |
| Discharges | 325 | 331 | 656 | | | | |
| Deaths | 44 | 39 | 83 | | | | |
| Transfers (to other | | | | | | | |
| Mental Hospitals) | 11 | 7 | 18 | | | | |
| Total Separations | | | | 380 | 377 | 757 | |
| Patients Remaining in Hospi | ital D | ecemb | er 31, 1964 | 500 | 395 | 895 | |
| Patients on Probation as at | Dece | mber 3 | 1, 1964 | 66 | 54 | 120 | |
| Patients on Register as at D | ecen | nber 31 | , 1964 | 566 | 449 | 1015 | |
| | | Additio | nal Data | | | | |
| | | 1964 | 1963 | 196 | 2 | 1961 | 1960 |
| 1. Average Daily Patient | | | | | C. Cold | Marine Comment | |
| Population | 9 | 23.36 | 1010.25 | 1096 | . 28 | 1162.46 | 1214.81 |
| 2. Change in Patient | | | | | | | |
| Population | | -66 | -94 | | -64 | -34 | -62 |
| 3. % Discharged of Total | | | | | | | |
| Admissions | | 102,98 | 93.10 | 88 | .58 | 84.52 | 77.29 |
| 4. % Deaths of Total Under Treatment | | 3.62 | 5 50 | 1 | 47 | 1 77 | 1 00 |
| Treatment | | 0.02 | 5.56 | 4 | . 47 | 4.77 | 4.83 |

Hospital Stay:

The number of patient days in hospital decreased to 337, 026 (368, 887; 400, 142) representing an average daily population of 923 (1, 011; 1, 096). The hospital numbers were 66 less in residence than exactly one year previously.

In Patient Services

(a) Acute Treatment Services - with the newly opened Selkirk Psychiatric Institute now in operation, about two new admissions are treated per day and approximately two patients per day are released to the community after an average treatment time of four months.

Following examination and diagnosis, treatments such as E.C.T., insulin,

drugs, psychotherapy and occupational therapy are administered. This area absorbs the services of eight physicians and assigned social workers and psychologists as well as a complement of nurses and occupational therapy workers.

The leading therapy is that of high-dosage ataractic drugs. In combination with other therapies, this approach has been one of the areas of pioneer activity of the Selkirk Mental Hospital and has led to the establishment of health for many persons who otherwise would have remained chronically ill.

(b) Rehabilitation Services - centred in the older physical facilities, is a coordinated program of anti-regressive and re-socializing therapy. This program involves medical treatment, group psychological therapy, nursing remotivational therapy, specialized occupational therapy, and interest therapies. These various forms of therapy are co-ordinated with extensions into the community through the foster home program (Canadian Mental Health Association), industrial training areas (Skills Unlimited), meeting of home needs (Welfare), needs of training (Provincial Rehabilitation Co-ordinator); and hundreds of volunteers from numerous lay organizations.

This co-ordinated program is a highly integrated one and has been extremely successful in returning patients to various levels of activity in the general community.

Over the past year, 450 patients attended various phases of this rehabilitation program for two, three or five days per week, with an average of 200 patients involved on any one day. In addition, 188 patients received work habit training at Skills Unlimited with an average of 45 patients per day involved.

The Psychology Department in the hospital performed 1,423 psychological tests on 449 patients, plus 428 rehabilitation screening tests and 147 selection tests on student nurses. There were 484 hours of therapy, 180 hours of research and 45 hours of teaching.

SELKIRK HOSPITAL FOR MENTAL DISEASES

Discharges by Diagnosis and Length of Stay

| | -Te | . I. | 5 374 | 2 56 | | | | | 1 26 | 6 28 | | | | 2 25 | 656 |
|--------|-----------|----------------|---------------|---------------------|---------------------|------------------------|------------------------|---|----------------|-----------------|--------------------|----------------|--------------------------|----------------------------------|-------------|
| | Total | H. | 186 | 32 | 3 | 22 | 12 | | 7 | 16 | 5 | 12 | 20 | 12 | 33.1 |
| | | M. | 188 | 24 | 9 | 9 | 00 | | 15 | 12 | 26 | 12 | 15 | 13 | 325 |
| 10 | 70 | H. | 47 | 4 | 1 | - | 2 | | 1 | 1 | - | 1 | - | - | 57 |
| Over 5 | Years | Œ. | 00 | 3 | 1 | - | 2 | | 1 | 1 | 1 | 1 | 1 | - | 15 |
| 0 | 1 | M. | 39 | - | 1 | 1 | 1 | | 1 | 1 | - | 1 | - | 1 | 42 |
| | | H. | 15 | - | - | 1 | - | | - | 1 | - | - | - | - | 23 |
| 2-5 | Years | E. | 4 | 1 | 1 | 1 | 1 | | - | 1 | 1 | 1 | - | - | 2 |
| | Y | M. | = | - | - | 1 | - | | 1 | 1 | - | 7 | 1 | 1 | 16 |
| | | T. | 21 | 3 | 1 | 1 | 4 | | - | -1 | 1 | 7 | - | 4 | 35 |
| 1-2 | Years | H. | 10 | 7 | 1 | -1 | 4 | | - | 1 | 1 | 1 | - | 1 | 18 |
| | X | M. | 11 | - | 1 | 1 | 1 | | 1 | 1 | 1 | - | 1 | 4 | 17 |
| | 00 | Ŧ. | 47 | 9 | - | - | 2 | | 2 | 3 | - | 3 | 2 | 62 | 73 |
| 7-12 | Months | H. | 26 | - | 1 | - | - | | 1 | 2 | 1 | 1 | - | - | 33 |
| - | M | M. | 21 | 5 | - | 1 | - | | 2 | - | - | 3 | 4 | - | 40 |
| | 8 | H. | 64 | 2 | 2 | 9 | 3 | | 00 | 2 | 2 | 4 | 4 | 2 | = |
| 4-6 | Months | 12 | 36 | 4 | 1 | 2 | - | | 5 | 4 | - | 3 | 2 | 60 | 64 |
| | N | M. | 28 | - | 2 | - | 2 | | co | - | 4 | - | 7 | 67 | 47 |
| | hs | M. F. T. M. F. | 180 | 37 | 2 | 20 | 00 | | 14 | 20 | 23 | 15 | 23 | 12 | 357 |
| 0-3 | Months | 4 | 78 102 180 | 22 | 8 | 15 | 4 | | 4 | 10 | 4 | 6 | 15 | 9 | 163 194 357 |
| | | M. | 78 | 15 | 2 | 2 | 4 | | 10 | 10 | 19 | 9 | 00 | 9 | 163 |
| | Diagnosis | | Schizophrenia | Affective Psychoses | Paranoid Conditions | Involutional Psychosis | Psychoses with Old Age | Psychosis Secondary to Diseases of the | Nervous System | Other Psychoses | Chronic Alcoholism | Psychoneurosis | Pathological Personality | Other Non-Psychotic Disorders | |
| | | | | | | | _ = | 11 - | | | | | | | |

These figures represent the integration of psychology into the professional treatment team approach.

Also, during the year, the Social Service Section opened 394 new files, developed a case load of 3,843 persons who were seen for 14,842 interviews and 7,479 follow-up visits.

(c) <u>Infirmary Services</u> - are designed to care for elderly and physically ill persons. Care and treatment is governed by the need of the individual and absorbs the time of one full-time and two part-time physicians.

Out-Patient and Community Services

A philosophical approach that has paid rich dividends is that of long-term follow-up of discharged persons to maintain their health after the needed hospital care. All physicians on the staff are involved, with one full-time physician following the more mobile and difficult cases.

Three community clinics, in Selkirk, Beausejour and Gimli extend treatment facilities to the local level and work intimately with the general practitioners in those areas.

Over 1,600 patients receive continuous follow-up from hospital staff and during the year, a record of 7,500 visits were made. Demand increases by about 300 patients per year. Without this care many would relapse into illness.

Out-Patients numbered 1,658 (1,832: 1,092) who were seen for 7,727 (6,081; 4,421) interviews. In this group were 1,629 adults and 29 children. Of the 527 new patients, 385 were seen away from the hospital in community set ups

Out-Patient Department - 1964

| 1. | Number of patients seen who were not former in-patients | 55 |
|----|--|-------|
| | (a) New patients 10 (b) Patients seen during the previous year(s) 45 | |
| | (c) Total interviews of patients in a) and b) 225 | |
| 2. | Number of patients seen who were former in-patients | 1,189 |
| | (a) New patients 254 | |
| | (b) Patients seen during the previous year(s) 935 | |
| | (c) Total interviews of patients in a) and b) 5,225 | |
| 3. | Patients seen "away from" the hospital in | |
| | Community Health Clinics | * 385 |
| | (a) New patients * 244 | |
| | (b) Patients seen during the previous year(s) 141 | |
| | (c) Total interviews of patients in a) and b) * 2,215 | |
| 4. | Total number of patients under 1, 2 and 3 | 1,629 |
| | Total number of interviews under 1, 2 and 3 7,665 | |

^{*} These totals include patients seen at Mount Carmel Clinic, Winnipeg - 40 patients - 216 interviews.

Patients seen in Child Guidance Clinic (not included in preceding report,

1. Number of new C.G.C. patients 19
2. Number of previous C.G.C. patients 10
3. Number of visits of new C.G.C. patients 24
4. Number of visits of previous C.G.C. 38
5. Total number of C.G.C. patients 29
6. Total number of C.G.C. interviews 62

Scope and volume of work:

- (a) An admission rate of over 700; or about two patients per day to be completely evaluated and treated.
- (b) A discharge rate of approximately 100%.
- (c) A fall off in hospital population to below 900 (from a high of 1, 265).
- (d) Over 200 persons in foster homes.
- (e) Over 1,600 patients in continuous post-discharge follow-up; for over 7,500 (medical) interviews.
- (f) Some 1, 350 psychological tests on 425 patients.
- (g) Hours of psychological effort; 98 in selection procedures for nurses; 500 in group therapy; 180 in research.
- (h) Social service activity of 350 active cases; 650 in-hospital interviews; 7, 100 home visits.
- (i) Laboratory services of 2,400 tests; 3,500 x-rays; 145 E.K.G.'s; 215 E.E.G.'s.

In teaching activities, the hospital and its personnel provide:

- A full course of training for psychiatric nurses. In 1964 there were 10 graduates from the School with an undergraduate enrollment of 54.
- Affiliation courses for Registered Nurse students from the Grace and St. Boniface Hospitals.
- Refresher courses for Public Health Nurses from the Province, City of Winnipeg and Indian Health Services.
- A one-day experience for all medical students of the University of Manitoba.
- A full participation in the training of psychiatrists in the University of Manitoba course for Specialty in Psychiatry.
- Experience seminars for social workers, psychology students.
- Lectures to Theology Students at United College and to pharmacists and other groups.
- In the coming year formal connections with the School of Social Work;
 School of Occupational Therapy; and the Ph.D. Psychology course are to begin.

In this regard four staff psychiatrists are on the faculty of Medicine, University of Manitoba; one psychologist is attached with the faculty of Psychology, one nurse is on committees of the Manitoba Association of Registered Nurses, and several nurses hold positions on the Educational Advisory Committee for Psychiatric Nurses.

Manitoba School

Abilitation of the mentally retarded is the primary objective of the Manitoba School for Mentally Defective Persons at Portage la Prairie.

Although 40 percent of the patients at the Manitoba School can only profit from custodial care, efforts directed toward the educable include school classes for children and social and work training programs for adolescents.

The Manitoba School is equipped to handle approximately 1, 100 patients over the age of six years.

PATIENT POPULATION

| | Male | Female | Total |
|--|------|--------|-------|
| Remaining under treatment, December 31, 1963 | 579 | 523 | 1102 |
| First admissions | 47 | 32 | 79 |
| Re-admissions | 19 | 5 | 24 |
| Discharges | 40 | 18 | 58 |
| Deaths | 9 | 16 | 25 |
| Remaining under treatment December 31, 1964 | 596 | 526 | 1122 |
| Number of Out-Patients | | | 166 |

Services included:

Hospital and Infirmary

Although the general function of a hospital is provided, the outstanding activity here is the operation of the cerebral palsy treatment clinic. The object of this special cerebral clinic is to prevent as many as possible from becoming bedridden with progressive contractures and progressive muscle wasting. The active and mobile spastic is more happy and easy to care for, even with minimal results. Unfortunately, present case load exceeds working space and staff, but satisfactory progress has been made. Much benefit is derived from assistance of auxiliary professional personnel from the Rehabilitation Hospital.

Statistics:

| On Active Treatment with Physical Disabilities | 57 | | | |
|--|-----|--|--|--|
| Possible Daily Case Load | 29 | | | |
| Total Number of Cases with a Severe | | | | |
| Disability | 261 | | | |

School Department

This training area is departmentalized to meet the various and complex needs of the children as they grow older so is not a static but rather an everchanging picture. The various levels of training include:

- A kindergarten (sense training)
- Classes for trainable children (non-academic)
- Classes for educable children up to Grade 4 levels
- Socialization and training
- Abilitation training and follow-up (occupation, recreation, work placement training, job placement - Community).

Each of these levels engage different types of staff work but represent progressive program throughout.

Statistics:

| Number of Teachers | 8 |
|-----------------------|-----------|
| Number of Pupils | 139 |
| - Class Al, A2 | 16 pupils |
| - Class Bl, B2, B3 | 23 pupils |
| - Class C1, C2, C3 | 23 pupils |
| - Class D1, D2, D3 | 23 pupils |
| - Class E1, E2 | 17 pupils |
| - Class F | 9 pupils |
| - Physiotherapy Class | 28 pupils |
| 25 1 - 141 - 17 - 1 | |

- Music with all classes
- Art with four classes

Craftroom

Approximately 140 girls are occupied daily with Craft Work.

School of Nursing

A psychiatric nursing training course is provided at this institution by a well-established school of nursing.

Statistics:

| Staff Training | 1963 | 1964 |
|---|------|------|
| Number of Student Nurses Enrolled | | |
| as of November | 56 | 56 |
| Number of Student Nurses Graduating | 18 | 13 |
| Affiliations | | |
| A. For Manitoba School Nurses: | | |
| Brandon Mental Hospital (24 wks.) | 12 | 17 |
| Winnipeg General Hospital (16 wks.) | 9 | 10 |
| B. Provided by the Manitoba School for: | | |
| Brandon Mental Hospital (6 wks.) | 28 | 29 |
| Selkirk Mental Hospital (6 wks.) | 10 | 12 |

Residential Care

Every effort is made to provide activities for this largest group that are normal to any community. These include:

- Religious exercises
- Concerts, plays, pantomine
- Outdoor games, sports, bus trips
- Classroom occupation and ward activities, radio, television, parties, visiting.

Problems of mass living have been alleviated to the greatest possible extent with our present resources and the general atmosphere reflects a fair degree of success.

Cottage System

A development of major significance in Manitoba's approach to the problem of mental retardation was put into effect at the Manitoba School in 1964, with the establishment of the Cottage system of living. Three cottage units with a living capacity of thirty people per unit were constructed and occupied by young male patients transferred from other buildings. This system provides:

- Home like surroundings.
- Open doors (freedom of movement).
- Training for community living by self maintenance, individual responsibility and discipline, and small group activities.
- Appointment of a house matron to provide the Mother image and female influence.

Because of the special features of cottage life, (open door policy and self maintenance), criteria used to select residents were based on certain characteristics of patients, such as:

- Degree of knowledge of hygiene.
- General Behaviour.
- Ability to progress in training, and proceed to higher levels of individuality and responsibility.
- Physical condition.
- Ability to use normal household appliances and use facilities for clothing storage, personal hygiene and home recreation.
- Potential for eventual abilitation on a self-supporting and independent basis in free society.

Each cottage will provide for different age groups but will allow transfers as age increases and activities multiply toward working in the community.

Farms Management

Three institutional farms involving 4, 173 acres of land are operated by the department in conjunction with the Hospitals for Mental Diseases at both Brandon and Selkirk, and Manitoba School for Mentally Defective Persons at Portage la Prairie. These farms are maintained to produce food for institutional use and are of therapeutic value to the patient.

Institutional grounds, for the most part, are maintained by occupational groups under the direction of trained farm staff. Greenhouses supply bedding plants for flower beds and vegetable gardens, and plants and flowers for hospital wards.

Land Use and Field Crops and Gardens

| Total Farm Acreages - | Brandon | Selkirk | Portage | Totals |
|---|---------|---------|---------|---------|
| Field Crops - | 491 | 485 | 355.28 | 1331.28 |
| Hay and Pasture - | 1204 | 640 | 262 | 2106. |
| Potatoes and Vegetables - Hospital grounds, roads, undeveloped land, etc. | 101 | 60 | 73 | 234. |
| (rented land included) | 244 | 172.89 | 85 | 501.89 |
| Total Acreages - | 2040 | 1357.89 | 775.28 | 4173.17 |

Field Crops and Gardens

The very cool srping in 1964 delayed germination of garden crops, which allowed weeds to become a problem before seedling plants were large enough to cultivate. This resulted in below average yields of such vegetables as onions and carrots. The potato crop yield was very high but the disease known as 'ring-rot' greatly lowered their keeping quality. Grain crops were above average for the province but early frost cut yields of corn fodder and second-cut hay drastically. Some hay fields, such as alfalfa, did not recover from winter killing in 1962-63 and a breaking and reseeding program is now in operation. Fall work was completed on all farms and, with an adequate supply of early spring moisture, prospects should be good for 1965.

Grain and Forage Crops

| | Brandon | Selkirk | Portage | Totals |
|---------------------|---------|---------|---------|--------|
| Oats, bus. | 14675 | 12000 | 11680 | 38355 |
| Barley, bus. | 3060 | - | - / | 3060 |
| Ensilage, ton | 505 | 180 | 280 | 965 |
| Hay, ton | 190 | 228 | 159 | 577 |
| Green Feed, ton | 9- NO | - | 25 | 25 |
| Sweet Clover, ton | 245 | - | - | 245 |
| Seeet Clover, bales | - | - | 6400 | 6400 |
| Straw, ton | - | 163 | - | 163 |
| Straw, bales | - | - | 8500 | 8500 |
| Mangels, ton | 66 | - | - | 66 |

There were 175 tons of seasonal vegetables supplied to the institutions during the summer months, plus approximately 826 tons of staple vegetables put into storage for use during the winter.

Staple Vegetables Supplied to the Institutions - 1964

| | Brandon | Selkirk | Portage | Totals |
|--------------------|----------|---------|---------|----------|
| Beets, lbs. | 23725 | 8710 | 14570 | 47005 |
| Cabbage, lbs. | 39650 | 6826 | 22295 | 68771 |
| Carrots, lbs. | 24630 | 9420 | 13210 | 47260 |
| Onions, lbs. | 19065 | 9885 | 11335 | 40285 |
| Parsnips, lbs. | 9505 | 1210 | - | 10705 |
| Potatoes, lbs. | 365575 | 157740 | 261380 | 784695 |
| Turnips, lbs. | 43035 | 7420 | 33485 | 83940 |
| Returns from | | | | |
| Sale of Vegetables | \$670.30 | - | - | \$670.30 |
| Cottle | | | | |

Cattle

The pure bred Holstein herds at the three institutional farms continue to improve in quality. Besides supplying the institutions with fresh whole milk daily, many animals are made available to dairymen and farmers throughout the province for breeding purposes.

Cattle from the Hospitals for Mental Diseases' farms, at both Brandon and Selkirk, have been shown at "A" class fairs with excellent results. Plans are now underway to breed some of the cattle in the Manitoba School herd through

artificial insemination to take advantage of the superior type sires available through the A.I. Units.

| Cattle and M: | ilk Prod | uction | - 1964 |
|---------------|----------|--------|--------|
|---------------|----------|--------|--------|

| | Brandon | Selkirk | Portage | Totals |
|----------------------------------|-------------|------------|-------------|---------------|
| Returns from Sale of Cattle - | \$10,711.30 | \$6,420.97 | \$4, 142.95 | \$21, 275, 22 |
| Milk and Cream to | | | | |
| Institutions, lbs | 1, 229, 760 | 892, 184 | 731,660 | 2, 853, 604 |
| Milk fed to Stock - | 211, 260 | 37,905 | 71,800 | 320,965 |
| Total production - | 1,441,020 | 930, 089 | 803, 460 | 3, 174, 569 |

Inventory - December 31, 1964

| Number of head on hand - | 260 | 209 | 171 | 640 |
|-----------------------------|-------------|-------------|-------------|--------------|
| Inventory value - | \$45,975.00 | \$40,800.00 | \$29,615.00 | \$116,390.00 |

Hogs

A program of cross-breeding the Yorkshire with the Lacombe breed was introduced this past year. This breeding program will take advantage of hybrid vigor and improve other characteristics in the stock. A further back-crossing program will be tested in 1965.

As in the past, swine herds at Brandon and Selkirk are raised principally for food use in the institutions but any surplus hogs, which are mainly from the Selkirk farm, are sold to packing plants.

| Hog and | Pork Production, | Sales and |
|---------|------------------|-----------|
| | Inventory - 1964 | |

| - | Inventor | y - 1964 | | |
|-------------------------|-------------|------------|---------|---------------|
| | Brandon | Selkirk | Portage | Totals |
| Returns from | | | | |
| Sale of Hogs - | \$708.92 | \$6,002.71 | - | \$6,711.63 |
| Pork supplied to | | | | |
| Institution - lbs. | 58,518 | 31,543 | - | 90,061 |
| Inventory - December 31 | , 1964 | | | |
| Number of Hogs | | | | |
| on hand - | 255 | 211 | - | 466 |
| Inventory Value | \$7, 295.00 | \$5,940.00 | | \$13, 235, 00 |

Machinery and Equipment

Due to a decline in patient man-power, more mechanical equipment has been purchased for field work and further mechanization will be necessary for garden use.

Farm Buildings

The barn and granaries destroyed by fire in 1961 at the Selkirk Hospital were replaced in 1964. Maintenance was carried out on the greenhouse and root-cellar at the Brandon Hospital and the greenhouse at the Manitoba School is being replaced.

TOTAL FARM INVENTORIES (December 31, 1964)

| | Brandon | Selkirk | Portage | Totals |
|-----------------|----------------|--------------|-------------|---------------|
| Grain and Feed | \$12,438.50 | \$12,647.70 | \$10,212.10 | \$35, 298.30 |
| Vegetables | 5, 514. 75 | 2,371.00 | 3,511.20 | 11,396.95 |
| Livestock | 53, 830.00 | 46,900.00 | 29,815.00 | 130,545.00 |
| Machinery, etc. | 31, 731.00 | 29, 296.00 | 22,099.30 | 83, 126.30 |
| Totals - | \$103, 514. 25 | \$91, 214.70 | \$65,637.60 | \$260, 366.55 |

Inventory values show livestock and produce below sale values, and hay and grain at local prices.

HEALTH

HEALTH SERVICES

The Health Services Section is responsible to the Deputy Minister for administration of public health services and prepaid laboratory and x-ray services.

Public Health services are carried on within the City of Winnipeg by the City Health Department which acts independently from the provincial services, but receives financial and consulting support from the Provincial Department. Outside of the City of Winnipeg, 83% of the people receive public health services through local health units, directed by full time medical health officers with a staff of full time public health nurses and public health inspectors.

In areas not served by local health units, The Public Health Act requires the appointment of part-time medical officers. These men are supported by consultants in the preventive medical field and nursing and sanitation personnel assigned to these areas. There is no organized public health program in these regions as they lack the coordination of a full time medical director.

Health Services Section is also responsible for the administration of services used to support local health units and other services in the field. These supporting services include the Section of Preventive Medical Services, Environmental Sanitation, Dental Services, Public Health Nursing, Fred T. Cadham Public Health Laboratories, supervisory staff for laboratory and X-ray technicians and the health component of Care Services.

The Department of Health, through Health Services, does not provide direct medical care to any area.

Under the Health Services Act, the approval of the Minister is required to set up a Medical Care District. Ministerial approval is also required on the contract which has been made between the municipality and the practising physician in Medical Care Districts. Ten Medical Care District contracts were in operation during the year for the provision of general practitioner service to the residents of their areas. Provision is also made under Part III of The Health Services Act for a grant of 50 cents per capita for persons in a Medical Care District where the municipality is also included in a local health unit and a laboratory and X-ray unit. Seven of the above contracts qualify for this grant.

Local Health Services

Local Health Services, through local health units, offer comprehensive public health programs under the direction of full time medical directors with special training in this field, supported by the full resources of the department. In addition, there is a staff of full time public health nurses, public health inspectors, and clerical staff who give continuity to the program. The program is not rigid, but one adapted to the needs of each individual unit, and to the different regions within the unit. Considerable guidance from the local Advisory Board is necessary.

All staff members receive continuing in-service education to keep them abreast with the latest changes in preventive medicine.

During 1964, there were 14 local health units and six Laboratory and X-ray units in operation, and laboratory and X-ray services were extended to the Pine Falls and Pinawa Hospitals.

RECORD OF POPULATION, ESTABLISHED POSITIONS, STAFF VACANCIES, AND STAFF ON COURSE IN HEALTH UNITS - 1964

| | | | Public | Public | | |
|-------------------|------------|-----------|--------|--------|----------|--------|
| | | Medical | Health | Health | | Nurses |
| Health Units | Population | Directors | Nurses | Insp. | Clerical | Aids |
| Brandon | 33, 407 | 1 | 7 | 3 | 2 | |
| Dauphin | 23,830 | 1 | 6 | 1 | 2 | |
| Kildonan | 61,611 | 1 | 9 | 3 | 3 | |
| Neepawa | 27, 260 | 1 | 6 | 2 | 2 | |
| Portage | 33, 086 | 1 | 7 | 2 | 3 | |
| Red River | 25, 236 | 1 | 5 | 1 | 2 | |
| St. Boniface | 51,848 | 1 | 9 | 3 | 3 | |
| St. James | 85, 017 | 2 | 12 | 5 | 5 | |
| Selkirk | 38, 995 | 1 | 8 | 3 | 3 | |
| Swan Valley | 16, 169 | 1 | 5 | 2 | 2 | |
| Northern | 19, 334 | 1 | 4 | 1 | 1 | |
| Stonewall | 21,544 | 1 | 5 | 2 | 2 | |
| Virden | 24, 395 | 1 | 6 | 1 | 1 | |
| Birtle-Shoal Lake | 22, 238 | 1 | 5 | 2 | 2 | |
| Northern Health | | | | | | |
| Services | 18, 494 | 2 | 5 | 3 | 3 | 5 |
| Total | 502, 459 | 17 | 99 | 34 | 36 | 5 |
| Vacancies | | 1 | 4 | 4 | - | 2 |
| On Course | | 3 | 4 | 6 | | |

In the fall of 1964, responsibilities of Northern Health Unit at Flin Flon were expanded to include some regions presently under the administration of Northern Health Services. This arrangement will improve services in the north and help stabilize staffing in this area.

At the end of 1964, 83% of the people in the Province of Manitoba were receiving full time organized public health services.

Laboratory and x-ray services are available to approximately 48% of the population in that part of the province for which they are intended.

Prepaid laboratory and x-ray services are designed primarily for rural areas where usual diagnostic services are not available. The Metropolitan Winnipeg and Brandon areas are excluded at present.

Specific Health Unit Programs Include:

Community Sanitation Programs

Supervision of housing, water supplies, sewers, and septic tanks, garbage disposal, food and milk, restaurants, food sources, and health hazards in industries is carried out on a continuous basis.

During the year, public health inspection staff undertook to make regular inspections of hospitals in rural Manitoba in co-operation with the Manitoba Hospital Commission. Although such inspections have been done in the past on request, this change to a regular basis was made to reduce possibilities of spread of disease within hospitals, particularly through food.

| Field Vis | sits | 1963 | 1964 |
|-----------|--|--------|--------|
| a. | Plumbing Inspections | 2,977 | 3, 155 |
| b. | Sewage Disposal Systems - Private | 1,419 | 1,748 |
| c. | Municipal Disposal Systems or Water Supply | 926 | 918 |
| d. | Public Premises and Public Accommodation | 1,964 | 907 |
| e. | Industrial Premises and Offices | 228 | 865 |
| f. | Private Premises | 2,577 | 3,486 |
| g. | Camps | 213 | 215 |
| h. | Bathing Premises | 413 | 546 |
| i. | Schools | 580 | 545 |
| j. | Vermin and Rodent Control | 762 | 640 |
| k. | Ice Cutting and Storage | 20 | 68 |
| 1. | Waste Disposal Grounds | 422 | 1,030 |
| m. | Nuisances | 2, 293 | 1,932 |
| n. | Institutions and Boarding Homes | 827 | 684 |
| 0. | Barbershops | 594 | 450 |
| Food and | l Milk | | |
| a. | Raw Milk Producers | 386 | 552 |
| b. | Milk Processing Plants | 467 | 398 |
| c. | Food Retail Outlets | 1,342 | 1,156 |
| d. | Restaurants and Beverage Rooms | 2,897 | 3, 331 |
| e. | Food Processors (incl. Ice Cutting | | |
| | and Bottling Plants) | 500 | 866 |
| f. | Food Complaints | 87 | 169 |
| Sampling | and Field Tests | | |
| a. | Bacteriological Analyses - Water | 6,601 | 7,034 |
| b. | Milk - Raw | 3,761 | 2,570 |
| c. | Milk - Pasteurized | 3, 251 | 3,016 |
| d. | Food | 218 | 262 |
| e. | Swab Rinse Tests | 915 | 586 |
| f. | Field Tests (O. T., C.O., Etc.) | 658 | 880 |
| g. | Chemical Analysis - Water | N.R. | 13 |
| h. | Butter Fats | N.R. | 279 |

Communicable Disease Control

Communicable diseases are those spread by infective agents. The health officer attempts to control disease by promoting good nutrition, health habits, etc., from prenatal care throughout life. In addition, specific protection is given by immunization. It is recommended that this be done by the private physician, but materials are supplied by the health officer. The health officer also carries out immunization in schools, and well-baby clinics for those who cannot get to their own doctor. In some areas the practising physician prefers to have this done by the Health Department.

| Immuniz | ation | 1963 | 1964 |
|---------|-----------------------------------|--------|----------|
| a. | Smallpox vaccination | 9,443 | 5,778 |
| b. | Smallpox re-vaccination | 21,612 | 16, 172 |
| c. | DPT (Series Completed) | 121 | 254 |
| d. | DPT (augmenting) | 16,066 | 1,179 |
| e. | D. T. (Series Completed) | 2, 287 | 1,079 |
| f. | D. T. Augmenting | 16,066 | 9,973 |
| g. | Polio - Series of 3 Doses | 620 | 637 |
| h. | | 3,594 | |
| i. | DPT with Polio (Series Completed) | 8,995 | 5, 246 |
| j. | | 8,515 | 11,712 |
| k. | | | |
| | 1) No. Having Completed Series | 2,877 | 188 |
| | 2) No. Having Booster Doses | 38 | 1,504 |
| 1. | Other (Specify) | | |
| | 1) Tetanus | 14 | 40 |
| | 2) Gamma Globulin | 121 | 751 |
| | 3) T.A.B.T. Series | 36 | 69 |
| | 4) T. A. B. T. Augmenting | 10 | - |
| | 5) Typhus | 2 | 3 |
| | 6) Skin Reaction | 8 | - |
| | 7) Diphtheria | 37 | 2 |
| | 8) Flu Vaccine | 6,363 | 399 |
| | 9) "K" Injection | 1 | |
| | 10) Quad Booster | 793 | 3,979 |
| | 11) Cholera | - | 3 |
| | 12) Sabin | | 183, 168 |
| | 13) B.C.G. | - | 323 |
| | 14) Time Test | - | 1 |
| m. | Tests | | |
| | 1) Schick | 743 | 460 |
| | 2) Tuberculin | 3,994 | 3,803 |

The Health Department tries to control communicable diseases by isolating known carriers of the diseases, and controlling known methods of spread of disease. This involves regular supervision of food establishments, milk, garbage and waste disposal.

Venereal Disease Control

Health Unit personnel investigate and follow-up venereal disease cases and contacts, and arrange for treatment. Free drugs are carried in units, and distributed free to the practising physicians.

| Venereal | Disease in Health Unit Areas | 1963 | 1964 |
|----------|------------------------------|------|------|
| a, | New Cases of Syphilis | 22 | 3 |
| b. | New Cases of Gonorrhoea | 149 | 56 |
| c. | Contacts of V.D. | 28 | 82 |
| | 1) Names | 126 | 101 |
| | 2) Located | 96 | 121 |
| d. | Field Visits | 162 | 133 |
| e. | Treated | | 63 |

Tuberculosis Control

The local health unit co-operates with the Sanatorium Board in carrying out regular surveys. The responsibility of follow-up of contacts and arranging for admission rests with the local health officer.

| Tuberculosis in Health Unit Areas | | 1963 | 1964 |
|-----------------------------------|---------------------------------------|-------|-------|
| a. | New Cases Reported - Total | 121 | 37 |
| | 1) Arrested | 8 | 18 |
| | 2) Active Bacillary | 77 | 14 |
| | 3) Non-Pulmonary | 7 | 1 |
| b. | Total cases Under Supervision at Home | 1,586 | 757 |
| c. | Total Cases in Sanatorium | 296 | 117 |
| d. | Number of Chest X-Ray Clinics | 13 | 26 |
| | 1) Attendance of Cases | 124 | 119 |
| | 2) Attendance of Contacts | 224 | 1,888 |
| e. | Field Visits | 2,449 | 1,882 |

Prenatal Classes

Educational efforts and disease prevention are best directed where risks are increased. In line with this thought, the health unit organizes and conducts prenatal classes which are, in fact, educational classes to acquaint prospective mothers with the importance of regular prenatal care by her family physician, and to educate her in the proper health habits during pregnancy, and to prepare her for proper care of the newborn child.

Prenatal Classes - Instruction and Education in Health Unit Areas

| | | 1963 | 1964 |
|----|---------------------------|-------|-------|
| a. | Prenatal Instruction | | |
| | 1) No. of Classes | 655 | 589 |
| | 2) Attendance | 5,417 | 4,379 |
| b. | Meetings attended or held | 443 | 177 |

Child Health Conferences

The local health unit attempts to have a public health nurse visit each newborn baby in its home soon after discharge from hospital. This is to discuss with the mother, the important health care habits including postnatal visits for the mother and regular follow-ups of the child during its first year of life. At this visit, the subsequent child health conferences, the mother is counselled on proper feeding habits, including the use of vitamins to prevent deficiency diseases. The mother is also educated in the dangers of accidents due to poisoning which are the major hazards in the early years of an infant's life.

| | | 1963 | 1964 |
|----|--------------------------|------------------------|---------|
| a. | Child Health Conferences | NAME OF TAXABLE PARTY. | |
| | 1) No. Held | 2, 178 | 2, 178 |
| | 2) Attendance | 43,652 | 39, 325 |
| | a) Infants | 21,878 | 19,843 |
| | b) Preschoolers | 21,599 | 16, 238 |
| | c) School Children | 141 | 823 |
| | d) Adults | 74 | 2, 421 |
| b. | Diaper Tests (P. K. U.) | | 163 |

Preschool Medical

The health unit organizes and tries to insure the examination of each child, preferably by his own physician prior to admission to school to ensure the child is fully equipped to undertake school, and that any health handicap is corrected or minimized so that he will receive the fullest benefit of education. Where necessary, the public health nurse in the school can assist in interpreting defects to the teacher.

| Medical | Services in Health Unit Areas | 1963 | 1964 |
|---------|--|--------|-------|
| a. | Consultations and Diagnostic Visits with | | |
| | Physicians | 783 | 464 |
| b. | Meetings attended | 528 | 614 |
| c. | Medical Examinations | | |
| | 1) Preschoolers | 4, 186 | 2,615 |
| | 2) School Children | 3,016 | 4,044 |
| d. | Defects Detected | | |
| | 1) Preschoolers | 657 | 417 |
| | 2) School Children | 1,715 | 1,670 |
| e. | Defects Treated and Corrected | 310 | 407 |
| f. | Field Visits | 274 | 533 |

School Age

The health unit takes an interest in the school health program, and provides ready assistance to teachers in planning their health program. The members of the unit visit the school and carry out immunization programs, or assist in educational programs.

| School Healt | School Health Program - Health Unit Areas | | 1964 |
|--------------|---|---------------------------|------------|
| a. Pu | pils Interviewed by Nurses | N.R. | 14, 346 |
| | 1) Visions Only | 29,582 | 33,932 |
| | 2) Audiometer Testing | 3,612 | 4, 431 |
| b. Te | achers Interviewed | THE PARTY OF THE PARTY OF | In section |
| | 1) Re Pupils | 7,988 | 6,985 |
| | 2) Re Health Program | 3,982 | 4,719 |
| c. Gr | oup Instruction | 82 | 544 |
| d. Gr | oup Inspection | | 2, 293 |

Chronic Disease

The medical officer is active in this increasing load of chronic disease or disease of the aged. The health unit will assist in care of such people at home by sending a nurse to provide care where necessary, but preferably this nurse will educate members of the family to undertake these duties. The health unit can also assist in providing or making arrangements for nursing home care or institutional care where this is necessary.

| 1964 | |
|------------|--|
| 16 visits | |
| 46 visits | |
| 105 visits | |
| 28 visits | |
| 18 | |
| 308 | |
| 23 | |
| 569 | |
| | |

Crippled Children

G

The health unit works closely with the Society for Crippled Children and Adults, and serves to arrange local clinics for visiting teams. Similar cooperation is worked with the Canadian Arthritis and Rheumatism Society.

| | | 1963 | 1964 |
|--------|--------------------------------|------|------|
| a. Fie | ld Visits | 861 | 730 |
| b. Dia | gnostic Clinics - No. Held | 12 | 14 |
| | 1) Attendance | 79 | 49 |
| c. Phy | vsiotherapy Clinics - No. Held | 1 | 2 |
| | 1) No. Receiving Treatment | - | 25 |
| d. Vis | its to Cancer Patients | 84 | 42 |

Mental Health

The local health unit is becoming increasingly involved in the field of mental health which is moving out of the large mental hospitals, and back into the community. Discharges from mental hospitals are often preceded by a home investigation by the local health unit to prepare the family for re-entry of the person into the family circle. Follow-up visits are made by public health nurses, and arrangements are made for the patient to attend travelling clinics at the health unit when a team of psychiatrists, psychologists, and social workers visit from the out-patient department of mental hospitals. In addition, public health nurses make preliminary investigations of home facilities to prepare a report on cases referred to visiting clinics by practising doctors in the area.

| | | 1963 | 1964 |
|----|--------------------------|-------|-------|
| a. | Field Visits | 1,806 | 2,020 |
| b. | Mental Health Clinics | | |
| | 1) No. Held in Unit Area | 175 | 174 |
| | 2) Attendance | 1,347 | 1,751 |
| c. | Speech Therapy | | |
| | 1) No. of Clinics | 19 | 40 |
| | 2) Attendance | 160 | 258 |

Laboratory and X-Ray Unit

These units, commonly referred to as diagnostic units provide laboratory and X-ray services within hospitals in the health unit area. These facilities come under the administrative direction of the medical officer of the unit, and are subject to review by the Advisory Committee. The unit is staffed by qualified

technicians trained in both laboratory and X-ray technologies. The units offer a wide range of laboratory tests without charge. All in-patient services are rendered without charge to the patient, as these are covered under the Manitoba Hospital Services Plan. Persons who are not admitted to hospital, are charged \$1.00 for the first X-ray and 25 cents for each additional X-ray to a maximum of \$5.00 per illness. This does not include accident victims who are seen within 24 hours of an accident. Such persons are covered under the Manitoba Hospital Services Plan and no fee is charged. Persons not resident in the health unit area, or in another health unit area, must pay the regular fee for having laboratory tests or X-rays done at the diagnostic unit.

All tests carried out must be ordered by a physician attending the patient. These may be ordered by any licensed physician in the province who is attending the patient, and not necessarily the physicians in the unit or hospital in which the laboratory is located.

RECORD OF POPULATION, ESTABLISHED POSITIONS, STAFF VACANCIES, AND STAFF ON COURSE IN LABORATORY & X-RAY UNITS, 1964

| Lab. & X-Ray Units | Population | Medical Directors | Medical Technicians | Clerical |
|--|------------|----------------------|------------------------|----------|
| Dauphin | 23,830 | 1 | 8 | 1 |
| Selkirk | 35, 355 | 1 | 8 | 1 |
| Virden | 29,989 | 1 | 9 | 1 |
| Neepawa | 27, 358 | 1 | 8 | 1 |
| Portage | 35, 432 | 1 | 9 | 1 |
| Birtle-Shoal Lake Supervisory Staff | 22, 238 | 1 | 8 | 1 |
| at Portage | | | 4 | |
| Total | 174, 202 | 6 | 51 | 6 |
| Vacancies | | | 4 | |

Laboratory and X-ray technicians depend largely on in-service training and regular visits by supervisory staff from Portage la Prairie for guidance. During the year, a two-day refresher course was held in Brandon for combined technicians and a one-day course in X-ray and electrocardiography was held at Portage la Prairie. Twenty-three technicians attended both courses.

The Department continued to train regularly, combined technicians who receive full qualification in both laboratory and X-ray technology. These combined technicians are trained to staff small hospitals that cannot support separate technicians. This program is unique in Canada and possibly elsewhere.

During the year, eleven combined technicians, one straight laboratory technician, and two straight X-ray technicians were graduated. Since the fall of 1963, all technicians, have taken their didactic training at the Manitoba Institute of Technology in Brooklands. The laboratory section of this training has been increased from six to nine months commencing September, 1964.

SUMMARY OF LABORATORY AND X-RAY WORK, 1964

| Laboratory X-Ray Units | In-Patients | In-Patients Out-Patients | Chest X-Rays | In-Patients | In-Patients Out-Patients |
|------------------------|-------------|--------------------------|--------------|-------------|--------------------------|
| Dauphin | 3, 217 | 4,601 | 1,382 | 57,605 | 31,405 |
| Selkirk | 2,368 | 4,757 | 1,253 | 39,342 | 16,511 |
| Virden | 2,581 | 4,997 | 1,756 | 38,887 | 39,096 |
| Neepawa | 2,910 | 5,555 | 1,500 | 44,745 | 28,551 |
| Portage | 2,876 | 5,724 | 1,398 | 59,446 | 48,305 |
| Birtle-Shoal Lake | 3,631 | 4, 554 | 1,669 | 40,616 | 35, 472 |
| TOTAL 1964 | 17, 583 | 30, 188 | 8,958 | 280,641 | 199,340 |
| TOTAL 1963 | 15,744 | 23, 220 | 7,693 | 225,532 | 158,872 |
| INCREASE 1963-1964 | 11.7% | 29.9% | 16.5% | 24.5% | 25.8% |

do many tests simultaneously, and this accomplishes many more DBS units of work. In small laboratories, the output * Laboratory work is expressed in Dominion Bureau of Statistics Units (DBS Units). This expresses the various tests now a standard measurement used in hospital statistics. In large laboratories with mass techniques, a technician can performed in fixed units of work with each unit supposedly representing ten minutes of the technicians' time. This is in DBS Units will be relatively less.

ENVIRONMENTAL SANITATION

Work of this technical branch of the health division is directed through five sub-groups: public health engineering, food control, industrial hygiene, general public health inspection and the provincial sanitary control commission. This section provides assistance and service in all phases of sanitation and hygiene, as applicable to the living, working and recreational environments of the citizens of Manitoba.

Technical staff includes a chief engineer, five public health engineers, three agrologists (food experts), four chemists, four medical technicians, one instrument technician, one laboratory assistant and nine public health inspectors.

Public Health Engineering

Practical assistance and service to the public is the main function of the engineering program, with priority being given those facilities which serve the public en masse - such as municipal waterworks and sewerage systems.

Systems Serviced by Public Health Engineering in 1964 (Exclusive of Metropolitan Winnipeg)

| | Number | Population Served |
|--------------------|--------|-------------------|
| Waterworks systems | 72 | 146, 834 |
| Sewerage Systems | 83 | 149, 104 |

Services are provided on request to municipalities served by Metropolitan Winnipeg.

Approximately 57 percent of the population of Manitoba is served with water artificially fluoridated to a level of one part per million fluoride.

Waterworks Systems in Manitoba as of 31st December, 1964

| No. 1 - 1 - 111 | Chatan | 1001 DI-41 | G | |
|-----------------|------------------|-----------------|--------------|----------------------------------|
| Municipality | Status | 1961 Population | Source | Treatment |
| Altona | Town | 2,026 | River | Solids contact, filter, chlorine |
| Beausejour | Town | 1,770 | Wells | Iron removal |
| Birtle | Town | 846 | Well | Iron removal |
| Boissevain | Town | 1,303 | Lakes | Solids contact, soften- |
| | | | (P. F. R. A. | ing, filter, chlorine, |
| | | | Res.) | fluoride |
| Brandon | City | 28, 166 | River | Solids contact, soften- |
| | | | | ing, filter, chlorine, fluoride |
| Carman | Town | 1,930 | River | Solids contact, soften- |
| | | | | ing, filter, chlorine |
| Cartwright | Village | 482 | Well | Iron removal, zeolite |
| | | | | softening, chlorine |
| Dauphin | Town | 7,374 | Lake | Chlorine, fluoride |
| Dominion City | (R. M. Franklin) | 534 | River | Filter, zeolite soften- |
| | | | | ing, chlorine |

| Municipality | Status | 1961 Population | Source | Treatment |
|--------------------|------------------|-----------------|----------------------------|--|
| | | | | |
| Deloraine | Town | 916 | P. F. R. A. Res. | Solids contact, soften- ing, filter, chlorine |
| Elie | (R.M. Cartier) | 370 | Gravel Pit | Zeolite softening, |
| | | | | chlorine |
| Emerson | Town | 932 | River | Settling, filter, zeolite |
| | | | | softening, chlorine |
| Erickson | Village | 531 | Well | Iron removal, zeolite |
| Flin Flon | Town | 10,546 | Lake | softening, chlorine Heating, chlorine |
| Gilbert Plains | Village | 849 | River | Solids contact, soften- |
| Gilbert Frams | VIII III | 0.10 | 111701 | ing, filter, chlorine |
| Gimli | Town | 1,841 | Well | Chlorine, fluoride |
| Gladstone | Town | 944 | River | Settling, filter, chlor- |
| | | | | ine |
| Great Falls | Village | 164 | River | Chlorine |
| Gretna | Village | 575 | River | Solids contact, filter, chlorine |
| Hamiota | Village | 779 | Well | Solids contact, soften- |
| Hamista | viii ugo | | 11 011 | ing, filter, chlorine |
| Hartney | Town | 592 | Well | Iron removal, chlorine |
| | | | | fluoride |
| Holland | (R. M. Victoria) | 433 | Well | Iron removal, chlorine |
| Kelwood | (R. M. Rosedale) | | Well | Chlorine |
| Killarney | Town | 1,729 | Lake | Settling, filter, chlorine fluoride |
| MacGregor | Village | 642 | Well | Chlorine |
| Manitou | Village | 863 | Creek | Cold lime softening, |
| mamrou | ,go | | (P. F. R. A.) | filter, chlorine |
| Melita | Town | 1,038 | Well | Iron removal |
| Minnedosa | Town | 2, 211 | Well | Iron removal, fluoride |
| Morden | Town | 2, 793 | Creek | Settling, filter, chlor- |
| | | | (P. F. R. A.) | ine |
| Morris | Town | 1,370 | River | Settling, filter, chlor- |
| Neepawa | Town | 3, 197 | River | ine, zeolite, softening Solids contact, soften- |
| поорана | 10 | 0,101 | 14,101 | ing, filter, chlorine, |
| | | | | fluoride |
| Pilot Mound | Village | 802 | Well | Cold lime softening, |
| | | | | filter, chlorine |
| Portage la Prairie | e City | 12, 388 | River | Solids contact, soften- |
| Powerview | Williamo | 0.00 | Divon/fnom | ing, chlorine, fluoride |
| Powerview | Village | 902 | River (from Pine Falls) | Settling, filter, chlorine |
| Reston | (R. M. Pipestone | 529 | Well | Iron removal, chlorine |
| Rivercrest | Local Imp. Dist. | | Well | Nil |
| (West St. Paul) | | | | |
| Rivers | Town | 1,574 | River | Settling, filter, chlorine, |
| | | | | heating |
| Roblin | Town | 1,368 | Well | Iron removal |
| Rossburn | Village | 591 | Well | Iron removal, zeolite softening, chlorine |
| Russell | Town | 1, 263 | Wells | Nil |
| St. Lazare | Village | 449 | Springs | Chlorine |
| | | | | |

| Municipality | Status | 1961 F | opulation | Source | Treatment |
|--------------------------------------|-----------|---------|-------------|-----------------|--------------------------------|
| Selkirk | Town | 8 | 576 | Wells | Chloramine |
| Shoal Lake | Village | , | 774 | Well | Iron control |
| Souris | Town | 1 | 841 | River | Settling, filter, zeolite |
| bouris | Town | -, | ,041 | Illivoi | softening, chiorine, |
| | | | | | fluoride |
| Steinbach | Town | 9 | 739 | Wells | Fluoride, iron control |
| Ste, Rose du Lac | Village | ٠, | 790 | River | Solids contact, softening, |
| Ste, Rose du Lac | village | | 150 | MIVEI | chlorine |
| Swan River | Town | 9 | 163 | Wells | Iron removal, zeolite |
| Swall River | TOWN | , | 100 | Wells | softening, chlorine |
| The Pas | Town | 1 | 671 | River | Settling, filter, chlorine, |
| The Pas | 1 OWII | **, | , 011 | Mivei | fluoride |
| Treherne | Village | | 569 | Well | Iron removal, zeolite |
| Trenerne | village | | 000 | Well | softening, chlorine |
| Vindon | Town | 9 | 708 | Wells | Chlorine |
| Virden Winkler | | | | Well | |
| winkier | Town | 4, | 529 | well | Solids contact, softening, |
| Winnings Doogh | Town | | 907 | Well | chlorine, fluoride Chlorine |
| Winnipeg Beach | Town | | 807 | Well | Chrorine |
| Municipalities Ser | ved by M | letropo | litan Winni | peg (Source: La | ke of the Woods) |
| Assiniboia | R, M, | 6 | 088 | Via Winnipeg - | St James |
| Brooklands | | | | | St. James |
| Charleswood | Town | | 369 | Via Winnipeg | Tuvada |
| | R.M. | | 243 | Via Winnipeg - | Tuxedo |
| E. Kildonan | City | | 305 | Via Winnipeg | |
| Fort Garry | R.M. | | 528 | Via Winnipeg | E Wildows |
| No. Kildonan | R.M. | | 888 | Via Winnipeg - | |
| Old Kildonan | R.M. | | 327 | Via Winnipeg - | |
| St. Boniface | City | | 600 | | ct Chloramine, Fluoride |
| St. James | City | 33, | 977 | Via Winnipeg | |
| | | | 0.40 | | ct Chlorine, Fluoride |
| Transcona | City | | 248 | | ct Chlorine, Fluoride |
| Tuxedo | Town | | 627 | Via Winnipeg | |
| W. Kildonan | R.M. | | 077 | Via Winnipeg | |
| Winnipeg | City | 265, | 429 | Aquedu | ct Chloramine, Fluoride |
| Industrial Townsit | es and Co | rporat | ion-owned | Waterworks | |
| Bissett | Ind. | Est. | 900 | Lake | Settling Filter chloring |
| | | Est. | 900 | Lake | Settling, Filter, chlorine |
| (San Antonio G. M.) Lac du Bonnet | | | 990 | Divor | Chlorine |
| | Village | | 820 | River | Chlorine |
| (Water Co-Op Co.) | Ind | 0 | 110 | Lake | Chlanina |
| Lynn Lake | Ind. | 2, | 118 | Lake | Chlorine |
| (Sherritt-Gordon) Pinawa | Town | Fat | 900 | Divon | Filton oblemino fluorido |
| Fillawa | | Est. | 800 | River | Filter, chlorine, fluoride |
| Dino Falls | Town | Fat 1 | 200 | Dinon | Cattling filter ablance |
| Pine Falls | | Est. 1, | 200 | River | Settling, filter, chlorine |
| (Man. Paper) | Town | | 015 | Laka | Chlorino |
| Snow Lake | Ind. | | 915 | Lake | Chlorine |
| (H. B. M. & S.) | Ind | | 440 | Divor | Cottline filter -11 |
| Thompson | Ind. | 3, | 449 | River | Settling, filter, chlorine, |
| (INCO) | Town | | | 7-1- | heating |
| Flin Flon | To serve | | | Lake | Chlorine |
| | indust, o | nly | | | |

Miscellaneous Small Potable Industrial, Institutional or Corporation Water Supplies

| Municipality | Status | 1961 Population | Source | Treatment |
|--|---------------|--------------------|-------------|---------------------------------|
| Brandon Mental Hosp. (Man. Depts. of Health) | Institution | 2, 100 | River | Settling, filter, chlor- ine |
| Churchill Harbor | Harbor | 500 | Lake | Chlorine |
| Board | Install'n. | | | |
| Clearwater Sanat | Institution | 300 | Lake | Nil |
| (Sanatorium Board) Falcon Beach | Summer Res | ort - | Well | Chlorine |
| (Prov. of Man.) | buildier res | | WOII | Chiorine |
| Ninette Sanatorium | Institution | 350 | Wells | Leolite softening, |
| (Sanatorium Board) | | | | chlorine |
| Pine Falls | Power Site | Est. 60 | River | Chlorine |
| (Man. Hydro) | | | | |
| Pointe du Bois | Power Site | Est. 300 | River | Chlorine |
| (City Hydro El. Co.) | | | | |
| Seven Sisters | Power Site | Est. 250 | River | Chlorine |
| (Hydro) | T | 1 000 | 111-11 | Chloring |
| Selkirk Mental Hosp. | | 1,600 | Well | Chlorine |
| (Man. Dept. of Healt | | F | Discour | Chlasias Nas |
| Whiteshell Nuclear | Research | Est. 500 | River | Chlorination |
| | Station | | | |
| Non-Potable Water | Systems (flus | hing and/or fire p | orotection) | |
| Carberry | Town | 1,113 | Wells | Nil - fire protection only |
| Grandview | Town | 1,057 | River | Nil |

NOTE: Military installations not included,

Sewerage Systems in Manitoba as of 31st December, 1964.

| Municipality | Status | 1961 Population | Treatment | Final Disposal |
|----------------|---------------|-----------------|-------------|------------------|
| Altona | Town | 2,026 | Lagoons (2) | Buffalo Creek |
| Beausejour | Town | 1,770 | Lagoons (3) | Brokenhead River |
| Birtle | Town | 846 | Lagoon | Birdtail River |
| Boissevain | Town | 1,303 | Lagoon | Cherry Creek |
| Brandon | City | 28, 166 | Lagoons (5) | Assinboine River |
| Carberry | Town | 1,113 | Lagoon. | Dry Water Course |
| Carman | Town | 1,930 | Lagoon | Boyne River |
| Cartwright | Village | 482 | Lagoons (2) | Badger Creek |
| Crystal City | Town | 542 | Lagoons (2) | Crystal Creek |
| Cypress River | (R.M. Victori | a) 288 | Lagoons (2) | Cypress River |
| Dauphin | Town | 7, 374 | Lagoons (4) | Vermillion River |
| Deloraine | Town | 916 | Lagoons (2) | Ditch |
| Elkhorn | Village | 666 | Lagoons (2) | Bosshill Creek |
| Erickson | Village | 531 | Lagoons (2) | Leda Lake |
| Emerson | Town | 932 | Lagoons (2) | Red River |
| Flin Flon | Town | 10,546 | Clarifier, | Ross Creek |
| | | | Digestor | |
| Gilbert Plains | Village | 849 | Lagoons (2) | Valley River |
| Gimli | Town | 1,841 | Lagoons (3) | Lake Winnipeg |
| Gladstone | Town | 944 | Lagoon | Whitemud River |

| Municipality | Status | 1961 Population | Treatment | Final Disposal |
|--------------------|--------------|-----------------|------------------------------|--------------------|
| Glenboro | Village | 797 | Lagoon | To slough |
| Grandview | Town | 1,057 | Nil | Valley River |
| Great Falls | Village | 164 | Septic Tank, chlorination | Winnipeg River |
| Gretna | Village | 575 | Lagoons (2) | Red River |
| Hamiota | Village | 779 | Lagoons (2) | Drainage Course |
| Hartney | Town | 592 | Lagoons (2) | Souris River |
| Killarney | Town | 1,729 | Imhoff tank, Biofilter | Long River |
| * Lac du Bonnet | Village | 820 | Imhoff tank | Winnipeg River |
| MacGregor | Village | 642 | Lagoons (2) | Beaver Creek |
| Manitou | Village | 863 | Lagoon | Mary Jane Creek |
| Melita | Town | 1,038 | Lagoon | Souris River |
| Miami | (R. M. Thom | pson) 350 | Lagoons (2) | Tobacco Creek |
| Minnedosa | Town | 2, 211 | Imhoff Tank, Biofilter | Minnedosa River |
| Morden | Town | 2,793 | Lagoons (3) | Plum Creek |
| Morris | Town | 1,370 | Lagoons (2) | Red River |
| Neepawa | Town | 3, 197 | Lagoon | Whitemud River |
| Oak Lake | Town | 430 | Lagoons (2) | Assiniboine River |
| Pilot Mound | Village | 802 | Lagoons (2) | Pilot Creek |
| Portage la Prairie | City | 12, 388 | Lagoons (4) | Portage Creek |
| Reston | (R.M. Pipes | tone) 529 | Lagoons (2) | Souris River |
| Rivercrest Local | Imp. Dist. | Est. 400 | Septic tank, | Red River |
| (West St. Paul) | | | chlorination | |
| Rivers | Town | 1,574 | Lagoon | Minnedosa River |
| Roblin | Town | 1,368 | Lagoons (2) | Slough |
| Rossburn | Village | 591 | Lagoons (2) | Birdtail Creek |
| Russell | Town | 1, 263 | Lagoon | Slough |
| St. Lazare | Village | 449 | Lagoon | Assiniboine River |
| St. Pierre | Village | 856 | Lagoons (2) | Rat River |
| Ste, Rose du Lac | Village | 790 | Lagoons (2) | Turtle River |
| Selkirk | Town | 8,576 | Nil | Red River |
| Shoal Lake | Village | 774 | Lagoon | Shoal Lake |
| Somerset | Village | 596 | Lagoon | Ditch |
| Souris | Town | 1,841 | Septic Tank | Souris River |
| Steinbach | Town | 3, 739 | Lagoons (2) | Oak Creek |
| Swan Lake | (R. M. Lorne | 307 | Lagoons (2) | Pembina River |
| Swan River | Town | 3, 163 | Act. Sludge | Swan River |
| The Pas | Town | 4,671 | Nil | Saskatchewan River |
| Treherne | Village | 569 | Lagoons (2) | Boyne River |
| Virden | Town | 2, 708 | Imhoff Tank, Chlor. | Bosshill Creek |
| Winkler | Town | 2, 529 | Lagoons (3) | Hespeller Creek |
| Winnipeg Beach | Town | 807 | Lagoons (2) | Lake Winnipeg |

^{*}Part of Lac du Bonnet now serviced by 2 Lagoons

Municipalities Served by Metropolitan Corporation of Greater Winnipeg

| Municipality | Status | 1961 Population | Treatment | Final Disposal |
|--|---------------------------|---|---|----------------|
| Brooklands | Town | 4, 369 | Interceptor | Red River |
| Charleswood | R.M. | 6, 243 | System-Sewage | |
| East Kildonan | City | 27, 305 | Disposal Plant | |
| | | | located in Old | |
| | | | Kildonan | |
| St. Boniface | City | 37,600 | Primary | |
| | | | Treatment - | |
| | | | Clarifiers | |
| St. Vital | City | 27, 269 | Digestors - | |
| | | | Vacuum filtration | 1 |
| Transcona | City | 14, 248 | Sludge Lagoons | |
| Tuxedo | Town | 1,627 | | |
| West Kildonan | R.M. | 20,077 | | |
| Winnipeg | City | 265, 429 | | |
| East Kildonan St. Boniface St. Vital Transcona Tuxedo West Kildonan | City City City Town R. M. | 27, 305 37, 600 27, 269 14, 248 1, 627 20, 077 | Disposal Plant located in Old Kildonan Primary Treatment - Clarifiers Digestors - Vacuum filtration | |

Members of the Metropolitan Corporation of Greater Winnipeg Not Connected with the Major Interception and Disposal System

| Assiniboia | R.M. | 6, 088 | (One District only with Sewers) |
|----------------|------|---------|--------------------------------------|
| Fort Garry | R.M. | 17, 528 | (Partial Interception- Red River) |
| North Kildonan | R.M. | 8,888 | (One District only with Sewers) |
| St. James | City | 33, 977 | (Partial Interception- Red River) |

Major Industrial Townsites

| Bissett | Ind. Town | Est. 900 | Septic Tanks, | Rice Lake (with |
|-----------------|---------------|-------------|---------------|----------------------|
| (San Antonio G. | M.) | | Chlor. | tailings) |
| Flin Flon | Ind. Town | - | Activated | Flin Flon Lake (with |
| (H.B.M. & S.) | (To serve | | Sludge | treated sludge) |
| | industry only |) | | |
| Lynn Lake | Ind. Town | 2, 118 | Septic Tank, | Lynn River |
| (Sherritt-Gordo | n | | Chlor. | |
| Mining Corp.) | | | | |
| Pinawa | (L, G, D,) | Est. 800 | Lagoon | Winnipeg River |
| | Ind. Town | | - Boom | |
| Pine Falls | Ind. Town | Est. 1, 200 | Lagoons (2) | Winnipeg River |
| (Man.Paper Co. | | 250. 2, 200 | Zugoono (2) | |
| Snow Lake | Ind. Town | 915 | Imhoff Tank | Slough adjacent to |
| (H. B. M. & S.) | ma, rown | 510 | IIIIIOII Tank | tank |
| | O) Ind Town | 2 440 | Clarifican | |
| Thompson (INC | O) Ind. Town | 3, 449 | Clarifiers, | Burntwood River |
| | | | Digestion, | |
| | | | Chlor., | |
| | | | Vacuum | |
| | | | Filtration | |

| Miscellaneous | Status | 1961 | Population | Treatment | Final Disposal |
|--------------------|---------------|------|------------|--------------|-------------------|
| Brandon Mental | Institution | 2 | 2, 100 | Nil | Assiniboine River |
| Hospital | | | | | |
| Churchill Harbor | Harbor | | 500 | Nil | Churchill River |
| Board | Installations | | | | |
| Clearwater San. | Institution | | 300 | Septic Tank | To muskeg area |
| Falcon Beach | Summer Rese | ort | | Lagoon | Muskeg Area |
| Ninette San. | Institution | | 350 | Imhoff Tank, | Pelican Lake |
| | | | | Chlor. | |
| Pine Falls | Power Site | Est. | 60 | Septic Tank, | Winnipeg River |
| | | | | Chlor. | |
| Pointe du Bois | Power Site | Est. | 300 | Nil | Winnipeg River |
| St. Boniface San. | Institution | | - | Nil | Red River |
| Seven Sisters | Power Site | Est. | 250 | Imhoff Tank, | Winnipeg River |
| | | | | Biofilter | |
| Selkirk Mental | Institution | 1 | , 600 | Nil | Red River |
| Hospital | | | | | |
| University of | | | - | Nil | Red River |
| Manitoba | | | | | |
| Whiteshell Nuclear | | Est. | 500 | Lagoon | Winnipeg River |
| Research Station | | | | | |

New municipal waterworks and sewerage systems are being built each year. Once installed, assistance in the actual operation of these utilities, is an essential part of the engineering program. To further this, the municipal councils are invited to send their plant operators in to Winnipeg each year, usually in March, to take part in specific courses provided for instruction in water chemistry, theory and practice of filtration, sanitary analyses of waste water and the design basis for both water conditioning and sewage treatment processes.

Waterworks and Sewage Plant Operators' Schools Attendance

| Year | 1st Year | 2nd Year | 3rd Year | Refresher |
|------|----------|----------|----------|-----------|
| 1955 | 23 | _ | _ | - |
| 1956 | 29 | 25 | _ | - |
| 1957 | 18 | 14 | 19 | - |
| 1958 | 19 | 16 | 10 | 8 |
| 1959 | 21 | 22 | 16 | 8 |
| 1960 | 10 | 17 | 15 | 9 |
| 1961 | 15 | 10 | 16 | 7 |
| 1962 | 25 | 14 | 13 | 26 |
| 1963 | 33 | 25 | 14 | 32 |
| 1964 | 27 | 30 | 20 | 36 |

The course requires three years for completion and a certificate is issued to those operators attending. In addition, a refresher course has been developed in order to acquaint interested operators with advanced information and the latest developments.

Chemical and bacterial standards for water quality are reviewed periodically with the provincial bacteriologist and arrangements made for the periodic and frequent sampling of all municipal water supplies and as many private sources as possible. Engineers and inspectors also assist with problems of suspect private water supplies.

Further to the basic requirement of purification of water for public use, many selective requirements are now in vogue. These include water softening on a municipal scale and water fluoridation as a preventive measure in dental health. Essential analyses, control measures and operating techniques are worked out between our engineers and the local waterworks superintendents.

Communities with Fluoridated Public Water Supplies as of 31st December, 1964.

| Municipality | Status | 1961 Population | Date Started |
|--------------------|--------|-----------------|---------------|
| Boissevain | Town | 1,303 | Jan. 11, 1957 |
| Brandon | City | 28, 166 | March 8, 1955 |
| Dauphin | Town | 7,374 | May, 1958 |
| Gimli | Town | 1,841 | Dec. 23, 1963 |
| Killarney | Town | 1,729 | Oct. 25, 1960 |
| Minnedosa | Town | 2, 211 | July 7, 1960 |
| Neepawa | Town | 3, 197 | July 10, 1963 |
| Portage la Prairie | City | 12,388 | Jan. 13, 1958 |
| Souris | Town | 1,841 | Nov. 5, 1963 |
| Steinbach | Town | 3,739 | May, 1960 |

Municipalities Served by Metropolitan Winnipeg Water District

| Assiniboia | R.M. | 6,088 | Approximately 7,000 |
|--------------|------|----------|------------------------------|
| Brooklands | Town | 4,369 | people in the Rural Muni- |
| Charleswood | R.M. | 6, 243 | cipalities of Assiniboia, |
| E. Kildonan | City | 27, 305 | Charleswood, and North |
| Fort Garry | R.M. | 17,528 | Kildonan do not receive |
| N. Kildonan | R.M. | 8,888 | their water supply from the |
| Old Kildonan | R.M. | 1,327 | Metropolitan Winnipeg |
| St. Boniface | City | 37,600 | Water District at this time. |
| St. James | City | 33,977 | Fluoridation program |
| St. Vital | R.M. | 27, 269 | started Dec. 28, 1956. |
| Transcona | City | 14, 248 | |
| Tuxedo | Town | 1,627 | |
| W. Kildonan | R.M. | 20,077 | |
| Winnipeg | City | 265, 429 | |

Total Manitoba population is about 921,686; thus, about 57% of the population is served with water artificially fluoridated to a level of one part per million fluoride (F).

Waste Disposal

The innocuous disposal of waste is another engineering concern. This starts with the plumbing system in the individual home or building, the collection of liquid-carried wastes materials, the treatment of sewage in either lagoon systems or standard mechanical plants, and the eventual disposal and restabilization in the receiving river, stream or lake. Plumbing, sewage collection and general treatment processes come under general public health engineering.

Bathing Premises

The general safety and sanitary quality of public bathing premises has assumed significant proportions in the last six years. In this respect all new swimming pools for public use require the approval of the Minister and an annual permit from the medical officer of health. The engineering staff assist in the sampling analyses of bathing waters, the formulation of design criteria for both standard and modified swimpools, and the technical problems associated with the filtration systems with which most of the standard pools are equipped.

Swimming Pools and Operator Training

Since August 5th, 1959, fifty-eight swimming pools and other bathing premises have been reviewed on the Minister's behalf. Thirteen bathing premises were approved by the Minister during 1964.

| Standard Pools: | | | Approval No. |
|------------------------------|-----------|--------------------------------------|--------------|
| 1. University of Mar | nitoba | Fort Garry | 55 |
| Modified Standard Pools | 3: | | |
| 1. International Inn | | 1808 Wellington Avenue, St. James | 46 |
| 2. Goulet Street Apar | rtments | Goulet and Braemar, St. Boniface | 50 |
| 3. Fountain House Ap | partments | 300 Roslyn Road, Winnipeg | 51 |
| 4. Canada House Apa Hotel | rtment | 340 Assiniboine Avenue, Winnipeg | 52 |
| 5. Apartment Buildin | ng | 960 Winakwa Road, St. Boniface | 54 |
| 6. Pinewood Place A | partments | 2510 Portage Avenue, St. James | 56 |
| 7. Winnipeg Canoe C | Club | 47 Dunkirk Drive, St. Vital | 57 |
| 8. Morgan Manor Ap | | 1205 Grant Avenue, Winnipe | eg 58 |
| 9. Town of Boisseva | in | Boissevain, Manitoba | 59 |
| Modified Pools: | | | |
| 1. Altona Park | | Altona, Manitoba | 48 |
| 2. Ste. Anne's Touri | st Camp | Ste. Anne, Manitoba | 49 |
| Wading Pools: | | | |
| 1. International Inn | | 1808 Wellington Avenue, St. James | 46A |
| Operator Training Cour | ses | Date | Attendance |
| 1. | | June 23, 1959 | 50 |
| 2. | | April 10-13, 1961 | 60 |
| 3, | | June 3-7, 1963 | 28 |
| 4. | | June 25-26, 1964 | 45 |

General Services

The entire public health engineering program is carried out in concert with local health authorities, including the City of Winnipeg Health Department, the numerous Local Health Units and the Northern Health Service. In essence, the engineers provide a highly specialized back-up service to those engaged in the local supervision of preventive health measures. In addition, our engineers work very closely with staff of the Manitoba water supply board, water control and conservation branch, extension branch of agriculture and the fisheries and parks branches.

Food Control

Working cooperatively with all branches of the Department, other Departments of Government, and Industry, food control services are directed toward the safety of Manitoba's food supplies. The programs are carried out by technically qualified food and milk consultants, and include an active consultant service, direct programming of special services, and maintaining a constant vigilance on health safety aspects of production, processing, transportation, storage, and sale of all foods.

Food Control - Legislative Reference

Public Health Act Regulations: -

Part IV, Division 1 - Food and Food Handling Establishments.

Part IV, Division 2 - Milk and Milk Products.

Part IV, Division 4 - Slaughterhouses.

Part IV, Division 6 - Bottling Plants.

Part IV, Division 7 - Eating Establishments.

Frozen Food Locker Plant Act.

Rules and Regulations under the Frozen Food Locker Plant Act.

Milk

Twenty-five (25) milk pasteurization plants operated under Ministerial Certificate during 1964 - two (2) plants discontinued operation, and one (1) new plant commenced operation. The distribution from these plants covers the entire province thereby making pasteurized milk available to all residents. Activities include: -

- application of minimum requirements for milk pasteurization plants on a continuing basis. This includes:- location, construction, equipment and process requirements.
- continual review of Public Health Act Regulations respecting milk and milk products, and minimum requirements under these Regulations.
- meetings with consumers, producers, municipal officials and Milk Control Board.
- establishment of quality tests for raw milk, preparation of standards, and interpretation of results.
- originating, planning, and conducting dairy farm workshops for fluid milk producers.
- provision of in-service training to field staff and trainees.

- scheduling sample submissions to the Provincial Laboratories, establishing standards, interpretation of results, and monthly appraisals on all milk plants.
- consultation service to local health authorities, processors and producers.

Locations and Names of Milk Pasteurization Plants

Location Name of Plant Winnipeg Silverwood Dairies Ltd. Winnipeg Crescent Creamery Ltd. St. Boniface Modern Dairies Ltd. Winnipeg People's Co-operative Ltd. St. Joseph's Dairy Winnipeg Royal Dairies Winnipeg Canada Safeway Ltd., Milk Department Winnipeg Manitoba Dairy and Poultry Co-operative, Milk Dauphin Plant Flin Flon Modern Dairies Ltd. The Pas Frechette's Dairy Brandon Manitoba Co-op. Dairies Ltd. Portage la Prairie Portage Creamery Co. Ltd. Brandon Modern Dairies Ltd. Winkler Winkler Co-operative Creamery Selkirk Lakeland Dairies Killarney Killarney Creamery Souris Souris Creamery Selkirk Selkirk Hospital for Mental Diseases Ninette Manitoba Sanatorium Portage la Prairie Home for Mental Defectives Headingley Headingley Gaol Minnedosa People's Co-operative Ltd. Brandon Hospital for Mental Diseases Fort Garry University Dairy

Frozen Food Locker Plants

Gartmore Guernsey Farms

Eighty-three (83) frozen food locker plants were issued permits under the "Frozen Food Locker Plant Act" during 1964 - a reduction of five (5) plants from the previous year. These plants continue to provide processing, freezing, and cold storage service to the general public. A change in emphasis has been noted whereby processing and freezing service has increased, and cold storage service has decreased.

Dauphin

Activities have included: -

- member and secretary of the Advisory Board under the "Frozen Food Locker Plant Act."
- administration of the "Frozen Food Locker Plant Act."
- meetings and discussions with plant operators and with the Manitoba Locker Association.
- assessment of plant operations with local health personnel.

Advisory Board under "The Frozen Food Locker Plant Act" (1964)

Chairman - Mr. R. S. Pearce
Member - Mr. D. McFadyen
Member - Mr. S. Meltzer
Member - Miss E. M. Collyer
Member - Mr. W. G. Saunderson
Member - Mr. A. G. McLeod

Permits Issued - Frozen Food Locker Plants

| 1961 | 1962 | 1963 | 1964 |
|------|------|------|------|
| 88 | 86 | 88 | 83 |

Locations and Names of Frozen Food Locker Plants

Name of Plant

Location

Archie's Locker Plant Starbuck Frozen Food Centre Neepawa Morris Locker Plant Morris J. A. Burgess and Sons Minnedosa Lamb's Lockers and Meats MacGregor Oak River Quick Freeze Oak River Rockey's Processing Plant Pilot Mound 128 Adelaide St., Winnipeg 2 North Star Cold Storage (1957) Ltd.

Carberry W. D. McMillan Butcher and Locker Plant

Beausejour Locker Plant

Dauphin Manitoba Dairy and Poultry Co-op. Ltd.

Swan River Les' Locker Service

Boissevain Robinson's Frozen Food Centre

Carman Carman Frosted Foods
Cartwright Newton's Dept. Store Ltd.

Killarney Quick Freeze Locker Plant

36 St. Anne's Road, St. Vital, St. Vital Locker Plant

Oakville Oakville Meat and Locker

Grandview Kustra's Quick Freeze Locker Plant

Steinbach Steinbach Cold Storage Ltd.
Rivers Rivers Quick Freeze Ltd.

Souris Quick Freeze Locker Plant

Niverville Locker Plant

Transcona Meats and Locker Plant

Andrich and Co.

Lac du Bonnet Dancyt and Son Locker Plant

Portage la Prairie Burk's Meat Market and Locker Plant

Sanford Co-op. Consumers Ltd.

The Manitoba Cold Storage Co. Ltd.

St. Pierre Locker Plant Manitou Frozen Food Centre

Frosted Food Centre

Inter Lake Meats and Supplies

North Star Locker Plant

Arborg

Manitou

Sanford

St. Pierre

Dominion City

Ste. Rose du Lac

Winnipeg 8

Transcona

Portage la Prairie

151 Higgins Ave., Winnipeg 2

Location

Name of Plant

Roblin Roblin Locker Plant
Minto Community Market

Russell Consumers' Co-op. (1962) Ltd.

Erickson Neilson's Meats and Groceries

Gladstone Johnny's Cold Storage

Glenboro Quick Freeze Locker Plant

St. Claude Locker Plant
Hartney A. N. Jopling Locker Plant

Gilbert Plains Manitoba Dairy and Poultry Co-op. Ltd.

Benito Hall's Food Centre

Crystal City Locker Plant

Binscarth and Districts Co-op Cold Storage Ltd.

Letellier Quality Quick Freeze
Inglis Inglis Locker Plant
Minitonas Minitonas Locker Plant
Roland Moffatt's Locker Plant
Deloraine Maynard's Locker Plant
Stonewall George's Locker Service
Treherne Treherne Locker Plant

Dauphin Central Meat and Cold Storage

Kenton Kenton Frozen Foods
Hamiota Hamiota Quick Freeze
Melita Melita Quick Freeze
Somerset Somerset Locker Plant

Eriksdale Creamery and Locker Co. Ltd.

Teulon Teulon Locker Plant
Selkirk Russell's Food Centre

Lundar Modern Meat Market and Locker Plant

Moosehorn Locker Service

Altona Co-operative Service Ltd.

Sandy Lake Sandy Lake Locker Plant McCreary Locker Plant McCreary Brandon Frosted Food Centre Dahlman Locker Plant Riverton Shoal Lake Shoal Lake Locker Plant Ste. Agathe Ste. Agathe Locker Plant Newdale Lawrence's Solo Store Rossburn Rossburn Quick Freeze Notre Dame de Lourdes Notre Dame Locker Plant

Birtle Birtle Locker Plant

Elm Creek Co-op. Lockers Ltd.

Reston Reston Frozen Foods
Birch River Birch River Locker

Gimli Tip Top Meats and Frozen Foods

Pine River Plant
Libau Frozen Foods

Winnipegosis Locker Plant

The Pas Bert's Quick Freeze
Ashern Frank's Locker Plant

Meat Program

In the past non "Canada Approved" meat slaughtering, and meat processing operations consisted of small volume plants servicing local areas. These plants, specifically the slaughterhouses, were operating under local licence which required the minimum standards for small operations.

Recently there has been a trend toward expansion with a consequent larger market area. This larger market has demanded increased licence requirements for these plants.

Activities include: -

- the Interdepartmental Committee on Meat.
- negotiations with the Federal Government to extend "Canada Approved" meat inspection to domestic slaughterhouses.
- a study of the problems involved in introducing a Manitoba meat inspection program for meat processors.
- consultant and advisory service to domestic slaughterhouse operators, and meat processors in relation to constructional and operational standards.
- consultation with municipalities, local health authorities, and industry in relation to current and proposed programs.
- investigation and reporting on complaints and inquiries respecting health safety.
- consultant and advisory service on poultry and rabbit processing plants.

Slaughterhouses in Local Government Districts and Unorganized Territory

| 1961 | 1962 | 1963 | 1964 |
|------|------|------|------|
| 3 | 3 | 2 | 1 |

Locations and Names of Slaughterhouse Plants

| Location | Name of Plant |
|-------------|------------------------|
| Birch River | J. R. and G. L. Sadler |

Bottling Plants

Twenty-one (21) bottling plants operated under Ministerial Permit during 1964 - a reduction of one (1) plant from the previous year. Several plants have completed extensive modernization programs.

Increased emphasis on control programs has resulted in a marked decrease in consumer complaints. Routine examination service is being continued cooperatively with local authorities.

Locations and Names of Bottling Plants

| Location | Name of Plant |
|---------------|------------------------------|
| Winnipeg | Coca Cola Ltd. |
| St. James | Blackwood's Beverages Ltd. |
| Winnipeg | Bell Bottling Co. Ltd. |
| Winnipeg | Carling Breweries (Manitoba) |
| East Kildonan | Canada Dry Ltd. |
| St. James | Orange Crush Ltd. |

Location

Name of Plant

Winnipeg Winnipeg Winnipeg St. James

St. James

Portage la Prairie

Dauphin Dauphin Dauphin Flin Flon Flin Flon Selkirk

Brandon

Brandon Brandon

Neepawa

Arctic Drink Mfg. Co. Zero Bottling Works Dan's Beverages Ltd.

Pepsi Cola Co. of Canada Ltd. Portage Soda Water Works Dauphin Beverages Ltd. Northwest Beverages

Northwest Beverages
Bell Bottling Co. Ltd.
Arctic Beverages Ltd.
Northland Beverages
Selkirk Beverages

Northwest Beverages Ltd.

Coca Cola Ltd. Scott Fruit Co.

Hip's Fruit Flavored Syrups and Ciders

Fish

The fish station and plant improvement program has been completed, and current year activity has involved: -

- advisory and consultant service to local health authorities, other government departments, and industry on health aspects.
- direct service to Lake Winnipeg producing stations, and Winnipeg area processing plants.
- investigation and reporting upon complaints and inquiries.

Food Product Analyses

A comprehensive examination and testing service on all food products has been maintained. This service is provided directly, and in consultation with other agencies including the Provincial Laboratory and the Environmental Health Laboratory.

General Activities

- a food equipment evaluation service has been provided. Special emphasis has been placed on automatic food vending units.
- assistance has been provided the food service industry in organizing, developing, and presenting training courses for food service personnel.
- formal and informal lectures, demonstrations and workshop sessions have been presented to a wide variety of groups.
- small bacteriological kits (414) have been provided Grade IX Science Classes throughout Manitoba on request.

Special Assignments

Special assignments on Boards and Committees have been a part of the Food Control Program, and include representation on: -

- Advisory Board under the "Frozen Food Locker Plant Act."
- Dairy Board of Manitoba.
- Quality Control Committee on Dairy Products.

- Special Committee on Pesticide Residue Testing.
- Advisory Committee on Education and Training of Food Service Personnel.
- Departmental Representative on Agricultural Rehabilitation Development Act.
- Emergency Supply Planning Branch.
- Western Farm Safety Conference.

Added to the foregoing, food control personnel have participated in their professional organizations. These include: - Canadian Institute of Food Technology, Agricultural Institute of Canada, and Manitoba Institute of Agrologists.

Industrial Hygiene

The Industrial Hygiene Bureau provides numerous occupational health services, and the Environmental Health Laboratory involves many specific analytical determinations pertaining not only to industrial but general environmental conditions (e.g. water treatment, waste disposal, air pollution, etc.).

General Air Pollution Survey

The Metropolitan Area of Winnipeg has been part of a National Air Sampling Network since 1957. A continuous study of dustfall, smoke, suspended particulate matter, sulphur dioxide and hydrogen sulphide is being made. The objective is to establish basic data on the present situation for use in future control problems.

Air Pollution; Specific Surveys

Many special air pollution surveys were carried out during the past year at the request of Local Health Units, to determine compliance with Provincial Air Pollution Regulations. The following surveys were carried out and reported on:

| Grain plant | Bentonite plant |
|--------------------------------------|----------------------|
| Milling plant | Rural creamery |
| H ₂ SO ₄ plant | Farm equipment plant |
| Oil refinery | Sugar beet plant |

Studies are also underway to review existing air pollution regulations and to bring them more in line with current practise across the country.

| Laboratory and Field Determinations |
|--------------------------------------|
| 354 |
| 354 |
| 708 |
| 232 |
| 900 |
| 78 |
| 6 |
| 6 |
| 10 |
| 24 |
| 50 |
| |

Silicosis Prevention Program

This program is concerned with the prevention of silicosis in hard rock miners, foundry workers and asbestos workers. Approximately 2,500 men are processed each year. The service is offered to the Workmen's Compensation Board and to the mining, asbestos and foundry industry.

| Summary of Silicosis Survey | - Manitoba | 1964 (Mine | s, Quarrie | s Stone | eworks) |
|-------------------------------------|------------|-------------------------|-------------|----------|---------|
| | No. of | No. of | Total No. | No. of | No. of |
| | New Men | Old Men | of Men | Certs. | Certs. |
| MINES | Examined | Examined | Examined | Issued | Refused |
| Hudson Bay Mining and | | | | | |
| Smelting (Flin Flon | 211 | 1178 | 1389 | 1389 | - |
| International Nickel | | | | | |
| Company (Thompson) | 732 | 539 | 1271 | 1271 | - |
| Patrick Harrison | | | | | |
| (Thompson) | 74 | 48 | 122 | 122 | - |
| San Antonio Gold Mine | | | | | |
| (Bissett) | 96 | 74 | 170 | 170 | - |
| Sherritt-Gordon | | | | | |
| (Lynn Lake) | 183 | 193 | 376 | 376 | - |
| Wecore Drilling | 14 | 4 | 18 | 18 | - |
| STONEWORKS | | | | | |
| Lon's Stone Works (Wpg.) | - | 23 | 23 | 23 | - |
| | | | | | |
| QUARRIES | | Service or a service of | | | |
| Quinn Construction | 6 | 7 | 13 | 13 | |
| TOTAL | 1316 | 2066 | 3382 | 3382 | - |
| Summary of Silicosis Survey | - Manitoba | 1964 (Foun | dries and A | Asbestos | Plants) |
| | -A | | | | |
| FOUNDRIES | | | 10 | 10 | |
| Thor | 2 | 11 | 13 | 13 | - |
| Monarch Machinery | 12 | 34 | 46 | 46 | |
| Manitoba Steel (Selkirk) | -, | 24 | 24 | 24 | |
| Griffin Steel | 1 | 108 51 | 109 | 109 | |
| Dominion Foundry Canadian Bronze | 13 11 | 34 | 64 45 | 64 | |
| C. P. R. Foundry | 11 | 5 | 5 | 45 | |
| Bell Foundry | 17 | 33 | 50 | 49 | 1 |
| Bay Bronze | 2 | 12 | 14 | 14 | 1 |
| Anthes Imperial | | 137 | 137 | 137 | |
| | | 101 | 101 | 101 | |
| ASBESTOS PLANTS | | | | | |
| Armstrong Contractors | 1 | - | 1 | 1 | - |
| Hall's Associates | 5 | 8 | 13 | 13 | - |
| Western Asbestos | 17 | 200 | 17 | 17 | |
| Hilton Insulation | 1 | | 1 | 1 | - |
| Canadian Insulation | 2 | | 2 | 2 | - |
| TOTAL | 84 | 457 | 541 | 540 | 1 |

Assessment of Occupational Health Hazards

Requests for services in this area are received from the public, industry, Department of Labour, Department of Agriculture, Workmen's Compensation Board, Local Health Agencies and other groups.

Main Projects include:

- Mercury surveys at seed treating plants
- Jamieson School Kit Program (500 kits/year to grade schools)
- Preparation and supplying of residual chlorine test kits to high schools. These kits are also provided for all wading pools.
 They are also made available to the public to ensure safety of individual water supplies.
- Annual fluoride report on eight towns in Manitoba.
- Ventilation surveys (mainly of paint spraying setups).
- Chrome plating operations and the resultant fumes and mists.
- Diesel fume surveys.
- Surveys for various solvents in air.
- Water and Sewage Works Operators School.
- Carbon Monoxide surveys (an infra-red CO Analyzer is now available to obtain continuous CO readings).
- Lead-in-air surveys.
- Welding fume surveys at various industries.
- Gas conditions in Hoarders using oil fuel and propane-fired heaters.
- Developmental work on new methods of detection and analysis.
- Study of algae control in lakes and reservoirs.
- Biological samples for arsenic determination.
- Swimming Pool Operators Conference,
- Developmental work in Gas Chromatography (identification of pesticides, herbicides, solvents, air pollutants).
- Lighting Survey
- Technical appraisal of proposed new H₂SO₄ plant.

Laboratory and Field Determinations - 1964 Analyses and Tests

Industrial Hygiene

| Arsenic | 30 |
|---|------|
| Stippled Cell Counts | 3168 |
| Ventilation | 75 |
| Lead-in-urine, air, water, abomasal contents, | |
| liver, kidney | 389 |
| Mercury-in-air, urine, dust | 63 |
| Carbon Monoxide | 100 |
| Calibrations (thermometers, meters, etc.) | 60 |
| Iron Oxide | 12 |
| Zinc fumes | 4 |
| Flash Points | 24 |
| Solvents | 36 |
| Oxygen | 15 |
| Dust - silica | 15 |

| Hydrogen Sulphide | 50 |
|--|-----|
| Carbon Tetrachloride | 100 |
| Trichloroethylene | 25 |
| Humidity | 10 |
| Jamieson School Kits | 500 |
| O. T. Kits for High Schools | 50 |
| Chromic Acid | 6 |
| Styrene | 8 |
| Developmental Tests on Gas Chromatograph | 200 |
| Chlorinated Hydrocarbons | 15 |
| Solvents | 36 |
| Pesticides in Animals (birds, mice) | 20 |
| Miscellaneous determinations | 52 |

Consultations on Industrial Hygiene - 1964

| Industry or Agency | No. of Units | Nature of Consultation |
|-----------------------|--------------|---|
| Private enquiries | 24 | Lead-free paints, automotive exhaust, diesel fumes, hair spray ingredients, acid fumes, odors, smoke, dust, solvents, soaps, lead, mercury, arsenic. |
| Governmental Agencies | 96 | Diesel fumes, dust from cement manufacture, vehicle exhaust, solvents, fertilizer manufacture, carbon monoxide, fluoride fumes, oxalic acid fumes, aerosol spray cans, chemicals for cold sterilization, incineration, aldrin, 2,4-D, herbicides, pesticides, mercury, lead, radiation, odors, respirators, corrosion, chemicals, ventilation, temperature, humidity. |
| Architects | 6 | Underground garage ventilation, carbon monoxide. |
| Printing | 2 | Lead, ventilation. |
| Petroleum | 6 | Caustic waste, disposal, air pollution, |
| Cement | 2 | Air pollution regulations. |
| Battery | 2 | Stippled cell counting, lead, ventilation. |
| Mining | 4 | Acid mists, dust respirators. |
| Foundry | 6 | Lead, ventilation, dust. |
| Poison Control Center | 12 | Solvents, cleaners, chemicals, paints. |
| Construction | 16 | Asbestos, gasoline fumes, oxygen, sulphur dioxide, carbon monoxide, nitrous fumes, welding, silica. |
| Grain | 6 | Dust, mercury, ventilation. |
| Automotive | 3 | Carbon monoxide, ventilation. |
| Foundry | 6 | Noise, lead, dust. |
| Manufacturing | 20 | Mercury, odors, smoke, zinc, spray paint booths, styrene, beryllium, sulphuric acid. |

Plant Surveys and Visits - 1964

| Industry | No. of Visits | Hazards Investigated |
|--------------------------|---------------|---|
| Foundry | 12 | Silica, lead, cupola discharge, X-Ray surveys. |
| Manufacturing | 20 | Ventilation, degreasers, welding, carbon monoxide, styrene, acetone, resin, sulphur dioxide, hydrogen fluoride. |
| Battery | 8 | Lead, zinc, ventilation. |
| Agricultural Chemicals | .5 | Mercury herbicides, ventilation. |
| Construction | 8 | Asbestos, gasoline fumes, oxygen, carbon monoxide, carbon dioxide, nitrous fumes. |
| Commercial | 3 | Carbon monoxide, odor, solvents. |
| Cement | 2 | Dust emission, carbon monoxide. |
| Quarries and Stone Works | 2 | Silica, asbestos. |
| Private residences | 1 | Smoke |
| Water Treatment Plants | 7 | Fluoridation setup, radiation protection survey. |
| Welding | 3 | Iron oxide, sulphur dioxide, ventilation. |
| Government Building | 2 | Lighting. |
| Petroleum | 60 | Mercaptans, sulphur dioxide, hydrogen sulphide, hydrocarbons, welding fumes. |
| Grain | 6 | Dust, mercury. |
| Railways | 2 | Carbon monoxide, diesel fumes. |
| Sugar Beet | 15 | Odors, hydrogen sulfide, pH, etc., at lime mud pond and at settling ponds, pulp emissions. |
| Mining | 2 | Carbon monoxide, dust. |
| Automotive | 8 | Carbon monoxide, ventilation, zinc casting, trichloroethylene, hydrogen fluoride. |
| Plastic | 2 | Styrene, ventilation. |
| Creamery | 3 | Odor, hydrogen sulfide. |

Technical Information

The general public, industry, the professions and government agencies, continue to request technical information on a wide variety of subjects.

Thousands of items are processed each year. To supplement this public information service, staff members deliver talks on occupational health on request and arrange tours of the laboratory for various categories of students and the general public.

Lead Poisoning

Lead poisoning is still a major problem particularly in plants manufacturing batteries and in certain non-ferrous foundries. Monthly stippled cell counts are carried out on blood smears obtained from workers in these plants. Approximately 200 blood smears are read every month. This laboratory is also the only place in the province where lead-in-urine determinations are done routinely. This service is available to all hospitals and to all physicians.

Water and Sewage Analyses

This is by far the largest program in the laboratory with some 7,000 to 10,000 chemical analyses completed annually. Such analyses as fluoride, alkalinity, nitrate, hardness, chloride, iron, sodium and potassium are run continuously. This service is provided to government public health engineers, municipalities, industry and the public. Test reagents are also distributed to all plants in the Province.

| | Laboratory and Field |
|----------------------------|----------------------|
| Water and Wastes | Determinations |
| Mineral analyses | 9000 |
| Biochemical Oxygen demand | 900 |
| Fluorides | |
| Microscopic examinations | 150 |
| Detergents and Surfactants | 106 |
| Arsenic | 30 |
| Copper | 157 |
| Zinc | 19 |
| Lead | 135 |
| Phenols | 10 |
| Oil | 8 |
| Pesticides | 50 |
| Nickel | 10 |
| Solids | 26 |

Fluoride Control

Nearly 1,000 samples are tested every year. The objective is to control fluoridation within well-defined limits. The service is offered to all municipal and health agencies.

Nitrate Poisoning (water)

Test kits are supplied to approximately 100 hospitals and health agencies for the protection of infant health.

Organic Mercury Poisoning

Here, to discover potential health hazards from exposure to organic mercury and to develop controls, an overall preliminary survey of the seed treating industry was recently completed. Results obtained have warranted a specialized spot survey on four typical plants. Tests for mercury-in-air, urine and dust are underway and recommended control measures will be drawn up. There are also three plants where continuous mercury-in-air surveys are carried out. Plant physicians at two of these plants have requested mercury-in-urine analyses on a routine basis (pre-employment, half way through the season, and at the end of the seed treating season).

Gas Chromatography

A new laboratory tool, the Gas Chromatograph, has proved extremely versatile. Analyses for solvents, detergents, pesticides in water, and certain air pollutants are now being carried out on this equipment. The service is available to municipal agencies and industry. Increased uses of pesticides whose effects are not completely

known inspired this program. Pesticide determinations are presently being undertaken on river and lake samples.

Public Health Inspection

This section has a field staff of eight public health inspectors located at Brandon, Manitou and Winnipeg. They serve 43 rural municipalities and the towns and villages included in areas not covered by local health units and the unorganized territory south of the 53rd parallel.

Broad routine public health sanitation programs and special projects are carried out each year. Activities over the past year have involved:

Fish Station Improvement Program

Surveys of fish stations in 1960 led to a program designed to effect improvements over a three-year period.

In 1964 over forty fish stations on Lake Winnipeg were inspected to ascertain the sanitation measures practiced at each station. There were only five stations that did not meet with accepted standards.

Fish stations on Lake Manitoba have shown considerable improvement and all merit health approval with only minor recommendations. Operators of stations north of The Pas require further attention and will benefit from an educational program now underway.

Waste Disposal

Collection and disposal of waste material in unorganized territory has not been satisfactory for some years. This year a sanitary survey of each community in the Inter-Lake area was carried out and recommendations made regarding location and maintenance of waste disposal grounds. Lack of funds to implement recommendations has been a stumbling block, but certain financial arrangements have been worked out, and effective with the tax year 1965, resident administrators will be empowered to purchase lands for waste disposal grounds and establish refuse collection services in small communities.

In small towns, a considerable amount of work has been done to improve the appearance of waste disposal grounds and reduce nuisance complaints. Some rural municipalities have contracted with pest control operators to routinely visit refuse grounds and institute rodent control programs.

Disposal of manure from piggeries remains a perplexing problem. Some operators are using the lagoon system for disposal and this system creates unpleasant odours. Negotiations are now underway with some municipal councils with a view to zoning piggeries and similar industries.

Sanitation of Premises

| | Office Interviews | Field Inspections |
|---------------------------------|----------------------|----------------------|
| Tourist Camps | 6 | 35 |
| Summer Camps | 3 | 20 |
| Construction Camps | 4 | 8 |
| Hotels, Motels and Legion Halls | 27 | 101 |
| Hospital Sites | 6 | 29 |

| | Office | Field |
|----------------------------------|------------|-------------|
| | Interviews | Inspections |
| Schools | 25 | 47 |
| Complaints | 57 | 178 |
| Barber shops | 4 | 32 |
| Institutions | 6 | 21 |
| Community Rat Control Effort | 3 | 10 |
| Rat eradication - dwellings | 5 | 8 |
| Insect Eradication | 6 | 24 |
| Plumbing systems | 68 | 766 |
| Septic tanks and disposal fields | 86 | 517 |
| Municipal treatment plant | 2 | 29 |
| Lagoons | 6 | 57 |

Housing

Although slum areas do not exist in villages and towns, there are many older homes that present a neglected appearance and need repair.

Although not necessarily a health hazard, these buildings tend to adversely affect a neighborhood.

A further problem is presented by the increasing use of trailer homes as permanent residences. Trailer courts that are not operated or maintained in a sanitary manner are a threat to the health of the occupants and of residents in adjoining areas.

Local authorities are loath to take action even when building by-laws are not complied with. The average trailer home does not provide the floor space, ceiling height, windows, plumbing or cubic air space required for permanent homes. Although some cities and towns prohibit the locating of trailers within the city limits, this is not resolving the health problem. Some definite standards in respect to use and occupancy are needed.

Plumbing and Drainage

Inspection of private water and sewerage systems continues to absorb a major part of the time of field staff. Requests from home owners for advice and assistance in the construction of sewage disposal systems and the installation of plumbing increase each year. There are many variables to be considered in these installations and if the construction is being done by inexperienced persons, repeated visits become necessary. During the last 20 years supervision has been provided for the installation of thousands of septic tanks and disposal fields.

Water Supplies

Samples from municipal supplies are collected on a routine basis and sent to the laboratory for bacteriological examination. The number of requests for sampling of private supplies was similar to other years. The majority of samples indicate a safe water supply but where pollution is shown, advice on treatment of water is provided.

Water Supplies

| | Office | Field |
|---------------------------|------------|-------------|
| | Interviews | Inspections |
| Wells | 54 | 378 |
| Surface Waters | 10 | 51 |
| Municipal Supplies | 8 | 239 |
| Chlorinating Appliances | 9 | 39 |
| Samples: Bacteriological | 21 | 1251 |
| Samples: Chemical | 9 | 287 |
| Field Tests Nitrate | 29 | 38 |
| Field Tests O. T. | | 70 |
| Field Tests Other Sources | | 88 |

Staff Training

In-service training of staff was continued in 1964 with a five-day institute in the spring and a two-day workshop in November.

These in-service training sessions help to establish a uniform approach to problems in the field and upgrade the standard of performance of inspectors.

Organized by this section, a formal course of training for six student public health inspectors commenced in October. Staff from all branches of the department is contributing to this course which will extend until September, 1965. The Federal Government is financing this project which leads to certification by the Canadian Public Health Association. Students enrolled will eventually fill vacant positions in health units.

Provincial Sanitary Control Commission

"The Pollution of Waters Prevention Act" is the enabling statute governing the control of surface water pollution in the Province of Manitoba. The Provincial Sanitary Control Commission functions under the authority of this Act and the Minister of Health.

The members of the Commission are Mr. W. J. Johnston, Q.C., Mr. N. Mudry and Mr. L. A. Kay (chairman). The technical staff includes one public health engineer, Mr. A. B. Sparling, who also acts as secretary, and one chemist, Mr. A. A. E. Sorba. A term assistant is usually hired for part of the year.

The commission is responsible to the Minister of Health for the continuing surveillance of surface water courses, the extent and nature of allowable dilution of waste effluent and the issuance of licences to use the rivers, streams and lakes for this purpose.

Much of the field work is done in conjunction with the Fisheries Branch since detrimental pollution could also affect the important fish resources of the Province. This is a continuing arrangement of mutual advantage.

Local offensive conditions due to the discharge of untreated sewage or waste are subject to control by various regulations under "The Public Health Act". The provisions of "The Pollution of Waters Prevention Act" provide the necessary restrictive and corrective measures for large scale or continuing but controlled pollution.

The massive construction program for sewage treatment in the Metropolitan community of Greater Winnipeg is progressing satisfactorily. An international investigation of the sanitary quality of the Red River on both sides of the border has been established and work will commence in 1965.

During 1964, a total of twelve licences were issued by the Commission. As required by statute, a separate report by the Commission is made to the Minister of Health for tabling in the Legislature.

Licences Issued by the Provincial Sanitary Control Commission - 1964

| 1. | Village of Rossburn | to Birdtail Creek |
|-----|---|-----------------------------|
| 2. | Rural Municipality of Strathclair | to Salt Lake |
| 3. | City of Brandon | to the Assiniboine River |
| 4. | Rural Municipality of Harrison | to surface drainage courses |
| 5. | Town of Melita | to the Souris River |
| 6. | Rural Municipality of Miniota | to the Assiniboine River |
| 7. | Town of Roblin | to West Goose Lake |
| 8. | Red River School Division No. 17 | to the Red River |
| 9. | St. John's Cathedral Boys' School | to the Red River |
| 10. | The University of Manitoba, Glenlea | to the Red River |
| 11. | Mr. T. Robinson, Boissevain | to Cherry Creek |
| 12. | Interprovincial Pipeline Company, Gretna | to surface drainage courses |

PREVENTIVE MEDICAL SERVICES

The general work of Preventive Medical Services is aimed at preventing disease, promoting health and making treatment available under certain conditions. To this end the Section acts as the centre for the collection of statistics on notifiable communicable diseases so that early and rapid action can be taken in the case of an outbreak. It is also a distribution centre for the free supply of certain vaccines which produce active immunity to diseases. These include antitoxins and sera for the treatment of disease; silver nitrate to prevent opthalmia; penicillin and sulpha to prevent rheumatic cardiac disease and drugs for the treatment of diabetes, venereal disease and other communicable diseases. Under special circumstances, drugs required as a life saving measure or as a long term continuing necessity are supplied.

This section arranges and provides transportation to and from hospitals or sanatoria for indigent patients who are suffering from tuberculosis.

Personnel act as consultants in communicable disease control and Venereal Disease Control, for the medical profession, health units and others. Up-to-date information of contagious disease elsewhere is collected and advice given to travellers about foreign immunization requirements. The section also acts as custodian of the Health Department stamp used to authenticate vaccination documents required for international travel.

The Section of Preventive Medical Services consists of three distinct divisions:

- (1) General Epidemiology
- (2) Central Tuberculosis Registry
- (3) Venereal Disease Control

I - EPIDEMIOLOGY AND CONTROL OF EPIDEMICS

On the whole, the incidence of communicable diseases in the province of Manitoba has been low, with the exception of the venereal diseases. Otherwise the most frequently reported infections are Infectious Hepatitis and Dysentery. A number of small outbreaks have been reported during the year.

Enteric Fevers. Typhoid and Paratyphoid are serious diseases which have in the past been responsible for explosive outbreaks. Seven cases of Typhoid, one Typhoid carrier and one case of Paratyphoid were reported during the current year in Manitoba, and in each instance the section, along with the staff of local Health Units, has adopted very strenuous measures to prevent any spread from these foci of infection. Chronic Typhoid carriers constitute a problem and a known hazard and have to be carefully supervised by the department.

<u>Diphtheria</u>. Fortunately, outbreaks of this disease were much less than during 1963. During the year two cases were reported and one of these, a child of three, died as a result of the infection. Seven Diphtheria carriers were discovered as a result of an intensive search by Health personnel and these all received treatment to prevent them spreading the disease to others.

Brucellosis. Undulant Fever has been a problem in this province for a number of years and recently has affected chiefly employees in packing plants, rather than farmers. The Federal Department of Agriculture completed the

first phase of their Brucellosis eradication program in cattle during 1963 and since then the incidence of Brucellosis has continued to decline and no longer shows any preponderance in packing house workers. Only eight cases have been reported in 1964.

<u>Diarrhoeal Diseases</u>. Dysentery, Food Poisoning and Diarrhoea of the newborn continue to be quite prevalent. Three hundred and seventy-one cases of Dysentery were reported. This is an indication for continued vigilance in the provision of safe water supplies and for the supervision of food handlers.

Infectious Hepatitis. Apart from venereal diseases, Infectious Hepatitis remains the most frequently reported communicable disease in this province, despite the widespread use of Gamma Globulin for household contacts. The incidence this year is slightly less than in 1963 but shows a very considerable reduction from the 1961 figure.

<u>Poliomyelitis - Paralytic</u>. Once again, no cases of paralytic poliomyelitis have occurred in Manitoba during the past year. This is almost certainly the result of the extensive immunization campaigns which have been conducted during the past few years.

Western Equine Encephalitis. This disease has been epidemic in Manitoba in the past. It is a disease which normally affects wild birds and is transferred from them by a mosquito (Culex Tarsalis) to horses and man. Considerable interest in this disease has been taken in our neighboring province of Saskatchewan, because it is anticipated that the completion of the Saskatchewan River Dam may produce favorable conditions for increased breeding of the mosquito vector. During the year a search was made in Manitoba for evidence of infection in ducks, mosquitos, other animals and humans. The findings in ducks and mosquitos were essentially negative. Quite a number of horses were diagnosed as having Western Equine Encephalitis but only one doubtful human case was brought to light.

<u>Psittacosis.</u> This is a comparatively rare disease which spreads to man from budgerigars, pigeons, parrots and other birds. During the year five cases were reported and in each case, contact with infected birds was established and the necessary action taken to prevent further infection by treating or destroying the birds involved.

Tetanus. This is a frequently fatal infection which results from the contamination of a wound with dirt or soil containing the tetanus germs. The department attempts to prevent this by maintaining an immune status in the population by the use of active immunization with tetanus toxoid. Most of our preschool and school children are adequately immunized but unfortunately, the adult population is not so well covered. During 1964 there were three cases of Tetanus. These all occurred in people who were injured while handling agricultural implements. Two of them died, despite strenuous treatment.

Other Virus Infections. Once again during the year there have been several sharp outbreaks of the usual mild illnesses due to viruses, causing symptoms of the respiratory system and the gastrointestinal system. Most prevalent as a cause of these have been the adenoviruses, ECHO virus and Coxsackie virus. Whooping Cough, Measles and Mumps have been quite prevalent. Encephalitis following attacks of Measles and Mumps have been reported more frequently than in the past.

COMMUNICABLE DISEASE AND CANCER REPORTED CASES AND DEATHS

| | CA | SES | DEA | THS | | ATE PER ,000 LATION |
|---|------------|-------------|-----------|------------|---------|---------------------------|
| DISEASE | 1963 | 1964 | 1963 | 1964 | 1963 | 1964 |
| Brucellosis (Undulant Fever) | 12 | 8 | - | - | | - |
| Diarrhoea of the Newborn - epidemic | 16 (1) | 17 (1) | 1 (1) | 1 (1) | 0.1 | 0.1 |
| Diphtheria Cases | 24 | 2 | 3 | 2 | 0.3 | 0.2 |
| Diphtheria Carriers | 10 | 7 (3) | - | - | i | - |
| Dysentery: (a) Amoebic | 396 (10) | 371 (26) | | 1 | | 0.1 |
| (b) Bacillary | 60 (1) | 42 (2) | N - 1154 | 1 | V. 11 | 0.1 |
| (c) Other and Unspecified | 336 (9) | 329 (24) | - | 100 E 1111 | - | - |
| Encephalitis | 8 | 21 | - | 1 (1) | - | 0.1 |
| (a) Infectious | 8 | 1 (1) | - | 1 (1) | - | 0.1 |
| (b) Post Infectious (1) Measles | | 20 12 | | | | |
| (2) Mumps | 37 7 7 7 7 | 8 | | - | | |
| Food Poisoning | 16 | 83 | - | 1 | - | 0,1 |
| (a) Staphylococcus Intoxication | 9 | 17 | | | - | - |
| (b) Salmonella | 3 | 7 | - | - | | - |
| (c) Unspecified | 4 (1) | 59 | | 1 | and the | 0.1 |
| Hepatitis Infections (including | | Barrier St. | | | | 100 |
| Serum Hepatitis) | 761 (17) | 684 (48) | 4 | 3 (2) | 0.4 | 0.3 |
| Meningitis viral or aseptic | 54 (1) | 36 | - | uoni- | - | - |
| (a) Due to polio virus (b) Due to Coxsackie virus | | | | | | |
| (c) Due to ECHO virus | 1 | - 100 | - | | | |
| (d) Other and unspecified | 53 (1) | 36 | - | - | | - |
| Meningococcal infections | 2 (2) | 7 | 4 | 2 | 0.4 | 0.2 |
| Pemphigus Neonatorum | - | - | - | - | - | - |
| Pertussis (Whooping Cough) | 76 (10) | 33 (10) | 2 (2) | 1 (1) | 0.2 | 0.1 |
| Poliomyelitis - paralytic | - | - | - | - | - | - |
| Psittacosis and Ornithosis | 2 | 5 | - | - | - | - |
| Scarlet Fever and Streptococcae Sore Throat | 118 (1) | 93 | | - | - | |
| Tetanus | - | 3 | - | 1 | - | 0.1 |
| Typhoid and Paratyphoid Fever | 6 (4) | 7 (1) | - | - | - | - |
| Typhoid Carrier | - | 2 | - | - | - | - |
| Cancer | 3122 | 3100 | 1431 (12) | 1425 (15) | 150.6 | 147.3 |

Population 1963 - 950,000

Population 1964 - 958, 000

Figures in Brackets () - Treaty Indians

Vaccines and Immunizing Agents

The section strongly advocates routine community wide immunization against Smallpox, Diphtheria, Whooping Cough, Tetanus and Poliomyelitis in childhood, with appropriate boosters during school life and in adults. Biologicals for this purpose are distributed, without charge, for the use of local health units and private physicians. Diphtheria, Pertussis, Tetanus and Salk Polio Vaccine, were used in smaller quantities during 1964. The distribution of Smallpox Vaccine indicates that the immune status of our population against this disease leaves much to be desired. Typhoid and Paratyphoid antigens are made available in certain circumstances. Vaccination against Yellow Fever is made available by the Federal Government.

A stock of vaccine and antiserum for Rabies is stored and made available for persons bitten by wild or rabid animals. Although no human case of Rabies occurred in the province, it was necessary to give 102 persons treatment with vaccines to prevent its occurrence. This is about three times as much as was used the previous year. Diagnosis of Rabies in animals is quite common and laboratory tests confirmed its existence this year, in two cats, 79 skunks, 18 bovine, six dogs, two pigs and one horse. In addition, four dogs, two cats, seven bovine, one pig and one skunk were found to be rabid and had been in contact with humans.

Biologics Distributed Free in Manitoba - 1963 and 1964

| | 1963 | 1964 |
|---|--------------------|----------------|
| Diphtheria, Pertussis, Tetanus and Polio | | |
| Combined (cc) | 141,720 | 108,867 |
| Diphtheria, Pertussis and Tetanus Toxoid | | |
| Combined (cc) | 5,102 | 2,437 |
| Diphtheria, Tetanus and Polio Combined (cc) | 50,540 | 29,806 |
| Diphtheria, Toxoid and Tetanus Toxoid | man contraction in | and the second |
| Combined (cc) | 28,668 | 10,119 |
| Tetanus and Polio Combined (cc) | 9,300 | 7,957 |
| Diphtheria Toxoid (cc) | 5,434 | 3,413 |
| Pertussis Vaccine (cc) | 621 | 470 |
| Poliomyelitis Vaccine (Salk) parenteral (cc) | 32, 210 | 25,626 |
| Poliomyelitis Vaccine (Sabin) oral (doses) | | 611,517 |
| Tetanus Toxoid (cc) | 13,995 | 15,916 |
| Typhoid Paratyphoid Vaccine (cc) | 6, 469 | 6, 147 |
| Typhoid Paratyphoid Vaccine and Tetanus Toxoid (cc) | 10,541 | 10, 125 |
| Smallpox Vaccine (Points) | 98,576 | 91,815 |
| Rabies Vaccine (Courses) | 48 | 102 |
| Gamma Globulin (cc) | 15,355 | 19,179 |
| Diphtheria Antitoxin - Prophylactic (vials) | 65 | 42 |
| - Treatment (vials) | 56 | 31 |
| Tetanus Antitoxin - Prophylactic (vials) | 4, 464 | 3,337 |
| - Treatment (vials) | 46 | 96 |
| Scarlet Fever - Prophylactic (vials) | 13 | 9 |
| Antitoxin - Treatment (vials) | . 6 | 5 |
| Schick Test (25 person packages) | 711 | 634 |
| Silver Nitrate (ampoules) | 11,390 | 15,632 |

Sabin Campaign

On April 10, 1964, Manitoba commenced its second mass Sabin Oral Polio Vaccine Campaign. This was a co-operative effort of all personnel in the Health Department.

The campaign was directed primarily at infants over the age of six months, preschool children, school children and young adults. In total, 611,517 persons received the Sabin Vaccine, administered on a cube of sugar. Generally speaking, about 95% of school children received the vaccine. There was also a high proportion of preschool children attending the clinics.

It is estimated that 45% of all adults over the age of twenty have now received two doses of Sabin Vaccine. About 90% of preschool children have had at least one dose of Sabin in addition to their Salk shots.

Only one report was received of a significant paralytic phenomenon arising as a sequal to the vaccination and in this case the symptoms proved to be transient and complete recovery resulted within a short time.

Plans for the future envisage the incorporation of Sabin Vaccine in the routine schedules of immunization used for infants and school children. It will also probably be made available for distribution through private practitioners.

Measles Vaccine

Measles Vaccine has been used extensively by private physicians during the year. The Minister's Expert Advisory Committee on immunization procedures have constantly reviewed its use on a community wide basis but so far have not seen fit to recommend it for use in this way, nor have they recommended that it should be placed on the free list.

Antitoxins

Antitoxin is made available for the treatment and prevention of the disease in those exposed to Tetanus, Diphtheria and Scarlet Fever. Because of the risk of dangerous side effects, none of these preparations are as satisfactory as adequate active immunization. This applies particularly to Tetanus Antitoxin and the section has been promoting active immunization of all age groups with Tetanus Toxoid so that the antitoxin will not have to be used. A new type of antitoxin made from human blood serum in the form of a gamma globulin became available during the year. This does not have the potentially dangerous side effects of the ordinary horse serum antitoxin. Supplies are available through hospitals and commercial channels. This section provides it free for indigents attending at doctors' offices.

Another new drug introduced during the year was Marboran (N-Methyl-Isatin-B-Thio-Semicarbasone). This drug has been found valuable in preventing Smallpox in persons who have come in contact with this disease. A stock pile has been obtained and is being maintained at the Winnipeg International Airport.

Gamma Globulin

The section continues to provide free Gamma Globulin for preventive purposes. Groups covered under this scheme are household contacts of cases of Infectious Hepatitis, pregnant women during the first three months of pregnancy, where contact with German Measles may give rise to abnormality in the unborn child, and for special cases in hospitals and institutions. Gamma Globulin for treatment purposes remains the responsibility of the Canadian Red Cross Society. Increasingly large quantities of Gamma Globulin are being used.

Prevention of Cardiac Diseases due to Rheumatic Fever

Repeated attacks of Rheumatic Fever are well known to carry an increasing risk of affecting the heart. These attacks can be prevented by the continuous use of an antibiotic or chemotherapeutic agent which will prevent infection with the Haemolytic Streptococous which initiates the Rheumatic Fever. Preventive Medical Services makes penicillin or sulpha tablets, as well as a preparation of a long acting injectable penicillin available for this purpose. Applications from family physicians are scrutinized by an expert committee to ensure accuracy of diagnosis. The patients are followed up by the staff of the local health units to make sure that the prophylactic treatment is carried out regularly and in accordance with the physician's instructions. The cost is shared equally by the province and the municipality in which the patient has legal residence. One thousand, five hundred and forty-three patients are currently receiving this treatment.

Drugs to Prevent Rheumatic Heart Disease

| Patients accepted under program to end of 1963 | - | 1,596 |
|--|---|-------|
| Patients accepted under program to end of 1964 | - | 1,823 |
| Patients on active list at end of 1964 | - | 1,543 |

Drugs Provided

| | Penicillin G. | Sulphadiazine |
|-------------|---------------|---------------|
| Drug | 0,5 Grams | 0,5 Grams |
| Bottles of | | |
| 100 tablets | 3,730 | 158 |

Treatment of Diabetes

Anti-diabetic drugs are made available free to patients where the municipality of legal residence or the Welfare Department certifies that they are unable to purchase the drugs out of their own resources. The cost is shared on a fiftyfifty basis between the provinces and the municipality.

Patients eligible for Medicare are excluded since they are entirely a Welfare Department responsibility. Drugs are supplied in accordance with the prescription of the legally qualified physician in attendance. All the injectable insulins are made available, as well as the newer hypoglycaemic agents taken by mouth. There are currently about 631 persons who take advantage of this service. This represents a reduction from previous years, which is due largely to the fact that many of the older patients can now receive their drugs free under the Medicare scheme.

Drugs Provided

| Туре | Tor | onto Ins | sulin | PZ Ins | sulin | NPHI | sulin | Lente | Insulin | Globin | Insulin |
|----------|-----|----------|-------|--------|-------|------|-------|-------|---------|--------|---------|
| Strength | 10 | 40 | 80 | 40 | 80 | 40 | 80 | 40 | 80 | 40 | 80 |
| Vials | 10 | 1007 | 400 | 1996 | 990 | 2386 | 1712 | 922 | 1145 | 122 | 55 |

Oral Hypoglycaemic Tablets

| Drug | Tolbutaminde | Diabinese | D. B. I. | Dimelor |
|----------------|--------------|-----------|------------|---------|
| | 0.5 G. | 250 Mgm. | 25-50 Mgm, | 0.5. G. |
| No. of Tablets | 125,300 | 45,400 | 13,100 | 2,400 |

Special Drugs of a Life Saving Nature

This program has been in operation since 1958. In recent years policy has changed and under the scheme we now include cases where the life-saving drugs are required as a long term continuing necessity extending over months or years and where there is financial need. The financial need is assessed on the basis of a statement by the municipal authorities that the patient is unable to bear the cost of the drugs without creating undue hardship and that the municipality itself will be prepared to contribute fifty percent of the cost. The medical need is assessed on the basis of a certificate from the attending physician, usually supported by a report from a recognized specialist in the appropriate field. In certain circumstances the entire cost is borne by the province. This program is designed to relieve hardship amongst those patients who are not eligible for Medicare but would become indigent only as the result of the high cost of the drugs concerned. It fills a great need which becomes more obvious as knowledge of the scheme becomes available to doctors. During 1964 the number of patients benefitting under the scheme has almost doubled once again and there are now 67 such cases, as compared with 37 during 1963.

Much of this can be accounted for by the increased number of cases of Cystic Fibrosis. This is a disease in which, as a result of a deficiency in enzymes with which the patient is born, they become liable to repeated infections and serious ill health. Life long replacement and antibiotic therapy are required. Special arrangements have been made with the Children's Hospital for these cases to be assessed and the cost of the drugs is borne entirely by Preventive Medical Services. At the present time, 34 cases of Cystic Fibrosis are being looked after.

There are six cases of Phenylketonuria - another disease in which the provision of a special diet prevents the development of mental deficiency and the need for life long incarceration in a mental institution. The remaining 27 patients are suffering from miscellaneous conditions, in many of which prolonged use of expensive steroid drugs is required.

II - TUBERCULOSIS CONTROL

The actual treatment of Tuberculosis and much of the work in prevention is carried out by the Sanatorium Board of Manitoba, which is a voluntary organization, largely supported by government funds. Preventive Medical Services is responsible for the administration of interprovincial agreements with the provinces of British Columbia, Alberta, Saskatchewan, Ontario and Quebec, for the care of patients suffering from Tuberculosis. Under this agreement, a resident of Manitoba who moves to any of the above provinces and becomes ill within the first year, can be treated for his disease in their sanatoria and maintenance is paid by our province. Similar reciprocal arrangements apply where the situation is reversed.

Central Tuberculosis Registry

The main function of this bureau is to maintain a register of all the reported cases of Tuberculosis and a list of all persons who have come in contact with cases of open tuberculosis. They work in very close co-operation with the Sanatorium Board of Manitoba and with the local health units. The registry

Central Tuberculosis Registry

| | | 1 | 1963 | | | -1 | 1964 0 | |
|--|--------|---------|-------------|---|--------|---------|-------------|-----------------|
| | | Repo | Reported as | | | Repo | Reported as | |
| | | 0 | (| | | Twoody | | |
| | Whites | Indians | Eskimos | TOTAL | Whites | Indians | Eskimos | TOTAL |
| Total tuberculous patients carried in Registry file December 31 | 5,140 | 1,179 | 809 | 6,927 | 5, 227 | 1,864 | 637 | 7,728 * |
| Re-infection Type | 5,033 | 1,115 | 551 | 6,699 | 5, 129 | 1,792 | 576 | 7,497 |
| Primary Type | 107 | 64 | 57 | 228 | 86 | 72 | 61 | 231 |
| New cases of tuberculosis diagnosed | | | | | | | | |
| in Manitoba | 256 | 78 | | 334 | 197 | 75 | | 272 |
| Re-infection Type | 227 | 58 | | 258 | 170 | 69 | | 229 |
| Primary Type | 29 | 20 | | 49 | 27 | 16 | | 43 |
| Of these, the number of active | | | | | | | | |
| cases | 218 | 89 | | 286 | 164 | 65 | | 229 |
| Number admitted to Sanatoria | 176 | 09 | | 236 | 132 | 59 | | 191 |
| New diagnoses counted upon notifi- | | | | | | | | |
| cation of death | 6 | 63 | | ======================================= | 4 | | | 4 |
| Deaths from Tuberculosis | 33 | 9 | | 39 (4.1 | 1 20 | 8 | | 28 (2.9 |
| | | | | per 100,000) | | | | per 100,000) |

Treaty Indians and Eskimos are wards of the Dominion Government.

The increase in the number of persons carried in the Registry File is due to the fact that all persons who have had active tuberculosis are now carried for an indefinite period of time. 0 *

¹⁹⁶⁴ figures are preliminary. 0

ensures that patients are properly followed up and brought in for examination and if necessary for treatment at regular intervals. The regular supervision of contacts is also provided for. The registry collects and tabulates statistical information in connection with tuberculosis in Manitoba.

Tuberculosis as the cause of death continues to be less of a threat to life. The 1964 mortality rate from tuberculosis remains at a new low. The morbidity rate though lower than five years ago, indicates that tuberculosis continues to be a threat to the health of people of all ages. Actually there has been a considerable decrease in the number of persons who are found to have active tuberculosis.

To date, there has been no let up of case finding facilities offered to the public. Community and Industrial surveys are scheduled no that everyone in Manitoba is given an opportunity to have a tuberculin test or chest x-ray at regular intervals. An attempt is also made to contact ex-patients to bring their attention to the importance of annual medical review.

Also a Registry of all persons known to have a positive reaction to the tuberculin test is maintained. Those persons whose reaction is 4+ are encouraged to have a repeat x-ray in six months followed by annual chest x-rays.

III - VENEREAL DISEASE CONTROL

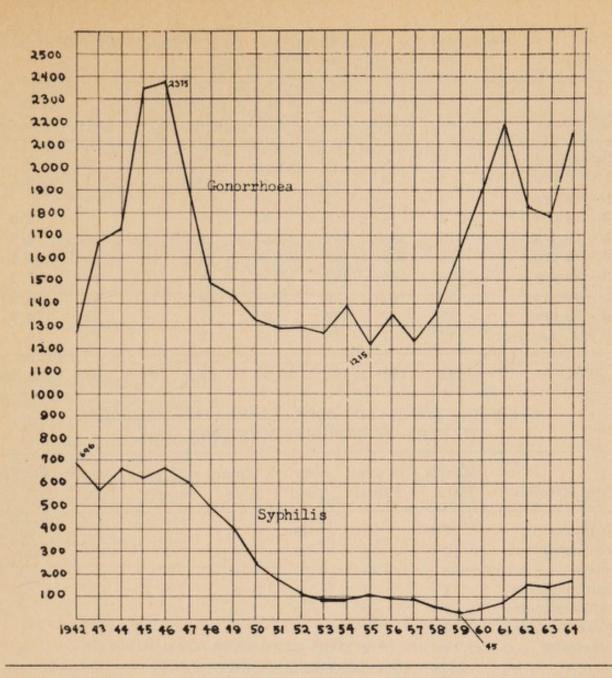
Venereal Disease Control implies prevention of the spread of venereal diseases. Basically this is accomplished through administration of the regulations under the Public Health Act, requiring physicians to notify the Director of Venereal Disease Control of cases of venereal disease. Notification should include information about all contacts of the initial case. The Director, through staff in the Norquay Building, organizes the location, examination and treatment, if necessary, of these contacts. Location of contacts is carried out in Metro through three full-time Public Health Nurses attached to the Venereal Disease Clinic and in Health Unit areas through Health Unit staff. Examinations and treatments are carried out by practicing physicians at no cost to the patient, where payment would be a hardship, or at the Government Venereal Disease Clinic at St. Boniface.

The essentials of the program are: -

- (a) Prompt notification.
- (b) Complete information as to case and contacts.
- (c) Rapid location of contacts.
- (d) Good administrative follow-up to ensure that contacts were actually located, examined and treated.
- (e) Readily available diagnostic and treatment facilities subsidized so as to ensure that they are available to anyone in need of them.

Trend in 1964

Figures show a continuing high incidence in Manitoba. This is part of a nation-wide, continent-wide and world-wide development noted since the late 1950's. However, incidence in 1964 is still below the previous Manitoba peaks of 696 cases of Syphilis in 1942 and 2, 375 cases of Gonorrhoea in 1946, despite an increase in population since then.



GONORRHOEA AND SYPHILIS - REPORTED CASES, ADULT BY SEX AND MARITAL STATUS, CHILDREN BY SEX - MANITOBA, 1964.

Adults (18 years and over)

| | Gono | orrhoea | Syphilis | | | | | |
|-------------------------|-------|---------|----------|------|--------|-------|--|--|
| Status | Male | Female | Total | Male | Female | Total | | |
| Married | 265 | 197 | 462 | 23 | 22 | 45 | | |
| Single | 940 | 352 | 1,292 | 57 | 22 | 79 | | |
| Widowed | 9 | 8 | 17 | 6 | 2 | 8 | | |
| Divorced or Separated | 108 | 127 | 235 | 10 | 18 | 28 | | |
| TOTAL | 1,322 | 684 | 2,006 | 96 | 64 | 160 | | |
| Children (17 and under) | 35 | 100 | 135 | 3 | 5 | 8 | | |
| GRAND TOTAL | 1,357 | 784 | 2, 141 | 99 | 69 | 168 | | |

GONORRHOEA AND SYPHILIS - REPORTED CASES BY AGE GROUPS, MANITOBA, 1964.

| Age Group | (| Gonorrho | ea | % of | Syphilis | | | % of | |
|------------------|-------|----------|--------|-------|----------|--------|-------|--------|--|
| | Male | Female | Total | TOTAL | Male | Female | Total | TOTAL | |
| Under 1 yr. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 - 4 yrs. | 1 | 2 | 3 | 0.14 | 0 | 0 | 0 | 0 | |
| 5 - 9 yrs. | 1 | 1 | 2 | .09 | 0 | 0 | 0 | 0 | |
| 10 - 14 yrs. | 4 | 14 | 18 | .85 | 0 | 1 | 1 | 0.6 | |
| 15 - 19 yrs. | 119 | 239 | 357 | 16.67 | 7 | 7 | 14 | 8.3 | |
| 20 - 29 yrs. | 815 | 368 | 1,183 | 55.26 | 30 | 18 | 48 | 28.6 | |
| 30 - 39 yrs. | 276 | 104 | 380 | 17.74 | 14 | 15 | 29 | 17.3 | |
| 40 - 49 yrs. | 95 | 43 | 138 | 6.44 | 19 | 15 | 34 | 20.2 | |
| 50 - 59 yrs. | 25 | 17 | 42 | 1.96 | 17 | 8 | 25 | 14.9 | |
| 60 yrs. and over | 17 | 1 | 18 | .85 | 12 | 5 | 17 | 10.1 | |
| TOTAL | 1,352 | 789 | 2, 141 | 99.98 | 99 | 69 | 168 | 100.00 | |

SYPHILIS - REPORTED CASES, TABULATED ACCORDING TO TYPE OF SYPHILIS - MANITOBA, 1964.

| | Adults | - 18 yrs. | over | Childre | n - 17 yrs. | under | GRAND | |
|------------------|--------|-----------|-------|---------|-------------|-------|-------|--|
| Type of Syphilis | Male | Female | Total | Male | Female | Total | TOTAL | |
| Primary | 37 | 12 | 49 | 1 | 0 | 1 | 50 | |
| Secondary | 16 | 14 | 30 | 1 | 2 | 3 | 33 | |
| Latent | 36 | 35 | 71 | 1 | 3 | 4 | 75 | |
| Neurosyphilis | 4 | 0 | 4 | 0 | 0 | 0 | 4 | |
| Cardiovascular | 1 | 0 | 1 | 0 | 0 | 0 | 1 | |
| Other Tertiary | 1 | 0 | 1 | 0 | 0 | 0 | 1 | |
| Congenital | 2 | 2 | 4 | 0 | 0 | 0 | 4 | |
| TOTAL | 97 | 63 | 160 | 3 | 5 | 8 | 168 | |

SYPHILIS AND GONORRHOEA, REPORTED CASES MANITOBA 1955 - 1964

| Syphilis | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 |
|-----------|------|------|------|------|------|------|------|------|------|------|
| Primary | 14 | 12 | 21 | . 8 | 7 | 8 | 18 | 48 | 42 | 50 |
| Secondary | 1 | 5 | 9 | 2 | 2 | 8 | 5 | 12 | 21 | 33 |
| Other | 86 | 76 | 64 | 48 | 36 | 32 | 48 | 85 | 87 | 85 |
| TOTAL | 101 | 93 | 94 | 58 | 45 | 48 | 71 | 145 | 150 | 168 |

Gonorrhoea 1, 215 1, 348 1, 226 1, 362 1, 636 1, 892 2, 178 1, 817 1, 786 2, 141

The Veneral Disease Clinic

This government-sponsored diagnostic and treatment clinic, located in the St. Boniface Hospital mainly serves Metropolitan Winnipeg and rural areas adjacent to it. Free clinics are held morning, afternoon and evening on Mondays and Thursdays and most modern methods of diagnosis and treatment are used. The Medical Director is on the hospital staff and has admitting privileges. There is a continuing increase in the attendance of patients at the clinic, reflecting the overall increase in incidence in the province.

RESULTS OF LABORATORY EXAMINATIONS ON CLINIC PATIENTS
MANITOBA, 1964

| Examinations | Positive | Negative | TOTAL |
|--------------------------------|----------|----------|--------|
| Serological tests for Syphilis | 376 | 4, 439 | 4,815 |
| Reiter's Protein Complement | | | |
| Fixation Test (RPCF) | 337 | 37 | 374 |
| Treponema Immobilization Test | 7 | 6 | 13 |
| Cerebrospinal Fluid Test | 3 | 45 | 48 |
| Darkfield for Spirochaetes | 21 | 46 | 67 |
| Smears for Gonorrhoea | 860 | 1,439 | 2, 299 |
| Cultures for Gonorrhoea | 611 | 1,454 | 2,065 |
| Swabs for Trichomonas | 301 | 1,106 | 1,407 |

MANITOBA GOVERNMENT CLINIC - ST. BONIFACE O. P. D. NEW PATIENTS ADMITTED 1955 - 1964

| New Patients Admitted | 1955 | 1956 | 1957, | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 |
|---------------------------------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|
| Syphilis | 30 | 30 | 35 | 16 | 19 | 12 | 32 | 73 | 80 | 100 |
| Gonorrhoea | 502 | 587 | 513 | 548 | 775 | 920 | 943 | 814 | 820 | 999 |
| Non-Gon. |) | | | | | | | | | |
| Urethritis and |) 614 | 465 | 185 | 132 | 141 | 131 | 122 | 105 | 114 | 181 |
| Miscellaneous No Pathologica | 1 | | 240 | 298 | 426 | 486 | 552 | 614 | 866 | 1,123 |
| Condition | 556 | 525 | 447 | 621 | 784 | 708 | 675 | 788 | 1,143 | 965 |
| TOTAL | 1,702 | 1,607 | 1,420 | 1,615 | 2, 145 | 2, 257 | 2, 324 | 2, 394 | 3,023 | 3,368 |

Uncooperative patients, or those charged by the Morality Squad of Winnipeg City, are examined, on an order from the Minister of Health, usually at the Venereal Disease Clinic. Treatment of these and other offenders may be continued in penal institutions, through the Attorney-General's Department.

DETENTION HOMES AND GAOLS

Patients treated in detention homes and gaols were as follows:

| Gonorrhoea | 163 |
|------------------------|-----|
| Syphilis | 31 |
| Non-Specific Infection | 2 |
| | 196 |

Diagnosis and Treatment in Rural Areas

Equipment for all diagnostic tests is provided to physicians, with mailing containers for transmission to the Provincial Laboratory, where tests are done without charge. Free drugs for notified cases are provided outside Metropolitan Winnipeg. Physicians fees are payable by the Province, if the patient is unable to pay.

Records and Administration

Records of notifications are maintained in the Norquay Building. Information for the location of contacts is sent to the Venereal Disease Clinic, Public Health Nursing Services, Health Units, Department of Indian Affairs, other Provinces and States. Centres of spread of venereal diseases are pointed out to Medical Health Officers or Police, for appropriate action.

Increased interest is being shown in education. However, the resistance of the public to open discussion of venereal diseases means that progress must be slow. Poverty, broken homes, overcrowding, ignorance, alcoholism and lack of social amenities are all related factors to venereal diseases. Professional education is directed to medical and nursing students and to public health nurses, inspectors. Educational material, including films and pamphlets are made available to the public by the department.

Pre-marital and prenatal compulsory blood tests for Syphilis are provided at no cost.

CARE SERVICES

Care Services, a combined project of the Department of Health and the Department of Welfare, became operational on June 1, 1963. This new organization is responsible for the development of services for the aged and infirm in need of care, but not requiring hospital care.

In the Metropolitan area of Winnipeg, Care Services has assumed the responsibility of providing direct services. In rural areas, Care Services provides advisory and consultant services to Health Units and Welfare Regions, to ensure a similar standard of operation and facility throughout the whole province.

Detailed services provided under the Care Services organization include:

Services to Patients

This entails the provision of direct service to the public patient and restricted service involving only consultation, advice and assistance to the private patient.

In providing comprehensive care for an individual, his total needs are assessed and clearly defined. The type of care provided depends on assessment findings regarding the present condition, needs and potential of the patient, his family, his home environment and community resources. Where possible, the patient is sustained in, or projected back into his own home environment. Failing this, alogical sequence of care facilities, such as home of relatives, foster home, residential personal care home, or nursing care institution are considered.

During the first eleven months of 1964 in the Metropolitan area, Care Services office provided services of a diversified nature to 1, 184 patients in institutions and 592 patients in Home or Foster Home Care placement.

S. "vices to Hospitals

Care Services assists hospitals in discharging to other facilities, patients no longer requiring acute or extended hospital treatment. These facilities include the patient's own home, home of relatives or foster home, or institution such as residential personal care or nursing type home.

Care Services also provides a medium through which hospital facilities such as Out-Patient Departments, are fully utilized by patients under Care jurisdiction. Furthermore, a consultation service to assist hospitals in the placement of private patients in other facilities is being utilized.

A continuous liaison is maintained with hospitals at the medical, nursing and social welfare levels to ensure a more efficient joint operation.

PLACEMENT AND MOVEMENT OF PATIENTS

| | Jan. | Feb. | Mar | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
|----------------------------|------|------|-----|------|-----|------|------|------|------|------|------|------|
| Number of Institutional | | | | | | | | | | | | |
| Placements | 67 | 60 | 45 | 34 | 23 | 46 | 43 | 45 | 25 | 36 | 31 | 33 |
| Number of Community | | | | | | | | | | | | |
| Placements | 11 | 15 | 15 | 11 | 14 | 24 | 20 | 4 | 19 | 18 | 7 | 14 |
| Number of hospital admis | - | | | | | | | | | | | |
| sions from Institutions | 49 | 57 | 35 | 37 | 54 | 66 | 33 | 41 | 39 | 47 | 35 | 34 |
| Number of transfers from | 1 | | | | | | | | | | | |
| one Institution to another | 13 | 14 | 12 | 5 | 33 | 25 | 7 | 4 | 10 | 26 | 11 | 11 |
| Number of Deaths in | | | | | | | | | | | | |
| Institutions | 26 | 23 | 15 | 25 | 26 | 28 | 26 | 11 | 10 | 32 | 28 | 23 |

NUMBER OF PATIENTS ASSESSED FOR CARE WITH CURRENT AND RECOMMENDED PLACEMENT INDICATED 1964

| | | | | | 1 | | | | | | | | | 1 |
|------------------------|-------|-------------------------------------|-------|------|-------|------|-----|------|------|------|------|------|------|------|
| Current | | Recommended Placement | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
| Hospital | to . | Community | 6 | - | 9 | 00 | co. | 00 | 61 | = | 10 | 7 | 12 | 6 |
| Hospital | to | Light Care - Hostel | - | 1 | 8 | | 1 | 1 | - | 4 | | | 2 | |
| Hospital | to t | Nursing Home | 30 | 17 | 22 | 18 | 14 | 00 | 28 | 18 | 19 | 11 | 18 | 27 |
| (acute) | 01 | Hospital - (Extended Treatment | es | es | es | | 1 | | | 1 | 1 | 4 | 63 | 1 |
| Nursing Home | to | Continued Nursing Home Placement | es | == | 12 | 9 | ro. | 0 | 7 | 10 | 11 | 7 | 9 | 6 |
| Nursing Home | to | Community Placement | co | m | 63 | 21 | 63 | 1 | | - | 1 | | 63 | |
| Nursing Home | to | Hospital | 63 | | | 2 | | 1 | | 23 | - | 1 | | |
| Light Care - Hostel | to | Nursing Home Placement | | | 1 | | 1 | က | 62 | | | | | |
| Community | to | Continued Community Placement | 15 | 18 | 19 | 10 | 23 | 22 | 13 | 13 | 24 | 22 | 20 | 18 |
| Community | to | Light Care - Hostel | | 1 | 23 | 23 | - | - | S | 8 | - | 63 | | 63 |
| Community | to to | Nursing Home Hospital | 12 23 | 14 | 00 61 | 4 1 | 10 | 14 | 7 | 8 1 | 1 | 6 1 | 12 | 2 |
| TOTAL | ı | | 75 | 70 | 80 | 53 | 65 | 69 | 65 | 72 | 74 | 70 | 76 | 70 |
| | | | | | | | | | | | | | | |

Service to Facilities and Institutions

Care Services is responsible for setting standards for all elements involved in care in institutions, and ensures adherence to these standards. Responsibilities also include licensing, certification and approval of the various types of care facilities now operating.

Close liaison has been maintained with Elderly Persons' Housing and community agencies such as the Age and Opportunity Bureau and the Canadian Mental Health Association. Joint programs have now been entered into or are under consideration with various agencies to improve the functioning level of existing facilities.

Method of Operation

Applications for assistance are reviewed and referred jointly to a social work staff member and a public health nurse. Pertinent background information is obtained and medical documentation is acquired to ascertain the levels of disability, functional ability, levels of care needs and general requirements.

All medical, nursing and psychosocial information available is presented daily at a Panel Assessment Conference, and a decision made on the care needs for each person. The staff members then carry through the necessary procedures to ensure placement, provision of medical care, nursing care, drugs and equipment.

Patients placed under Home Care are provided with medicare coverage in respect to Medical Services, Dental and other para-medical needs and drugs. Patients placed in light care, hostel, or residential type institutions are similarly provided for. In both instances, the patient chooses his own practising physician, who supervises his care and in conjunction with Care Services ensures continuous provision of services.

Patients placed in Nursing Homes require continuous nursing care and frequent medical supervisory visits. Arrangements are made in all Nursing Homes whereby a physician visits at least weekly to ensure continuous medical supervision.

In all cases, follow-up is provided by the social work staff, and public health nurses. Adequate dietary standards are maintained in all institutions through routine visits by a nutritionist.

Provision of care for public patients is a demanding task involving arrangements for:

- acceptance of new patients
- assessment of these patients
- placement
- admission to hospital if necessary
- holding beds until return from hospital
- patient return to placement facility
- continued medical care
- visits to out-patient departments of hospital
- change of placement
- locating foster homes
- dental services
- optometric services
- provision of equipment such as wheelchairs, walkerettes and crutches
- funerals, burials.

These services are provided on a daily basis for approximately 1, 200

patients in institutions, and approximately 600 patients in Home or Foster Home, within the Metropolitan Winnipeg area.

Approximately 50 percent of requests arise from patients already in Hospital and 50 percent from patients being cared for in the community.

Activities in 1964

Home Care

The number of patients on Home Care has increased from approximately 400 in January to approximately 600 in December, 1964.

INTAKE AND CONTINUOUS REGISTER OF PATIENTS Jan. Feb. Mar. Apr. May June July Aug. Sep. Oct. Nov. Dec.

| New Cases | 49 | 38 | 60 | 31 | 33 | 52 | 38 | 50 | 31 | 36 | 44 | 54 |
|------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|
| Cases re-opened | 9 | 15 | 16 | 13 | 4 | 13 | 13 | 13 | 20 | 17 | 18 | 16 |
| Transferred from Other District | | | | | | | | | | | | |
| Offices | 43 | 2 | 22 | 15 | 41 | 10 | 26 | 25 | 27 | 28 | 25 | 32 |
| Number of patients | | | | | | | | | | | | |

in Institutions 1189 1178 1183 1221 1225 1185 1180 1159 1150 1177 1184 1178 Number of patients

in Community

(Home-Foster

Home Care) 404 400 424 441 453 472 488 504 548 563 592 605

Wherever possible, people are provided with care in their own home or in a community placement where they are close to relatives and friends. Care Services is organized, coordinated and supervised to ensure that proper care can be provided in the community. Consequently, breakdown factors can be recognized at an early date, and often prevented. The shortage of care beds in institutions has made it necessary to obtain and sustain Home Care placements.

Institutional Care

Statistics indicate a large grouping of heavy care beds in the Metropolitan area. Many of the rural Homes are light care residential Homes or Hostels.

| Rural Non-Proprietary Homes | | |
|---|------|------|
| 28 Homes with a Bed Capacity of | 1363 | |
| Rural Proprietary Homes | | |
| 16 Homes with a Bed Capacity of | 367 | |
| Metropolitan Winnipeg Non-Proprietary Homes | | |
| 9 Homes with a Bed Capacity of | 1192 | |
| Metropolitan Winnipeg Proprietary Homes | | |
| 21 Homes with Bed Capacity of | 691 | 3613 |
| Total Non Proprietary Homes | | |
| 37 Homes with a Bed Capacity of | 2555 | |
| Total Proprietary Homes | | |
| 37 Homes with a Bed Capacity of | 1058 | 3613 |

| Total Rural Bed Capacity in | | |
|------------------------------------|------|------|
| 44 Homes with Bed Capacity of | 1730 | |
| Total Metropolitan Bed Capacity in | | |
| 30 Homes with Bed Capacity of | 1883 | 3613 |

Occupancy Distribution

A survey of Occupancy indicates that of an actual 85,978 days of institutional care, 54,792 days were utilized by Welfare or Public patients. Although the percentage of public patients in institutions varies from a high of 70.9% in the Metropolitan Winnipeg area, to a low of 49.9% in the Brandon area, the average for the whole province is 63.7%.

Since June 1, 1963, there has been an overall shortage of care beds. The need has been greater for skilled nursing and heavy personal care, than for light, residential or domiciliary type care.

Legislation

During 1964, two very important pieces of Legislation were passed.

- (1) The Elderly and Infirm Persons' Act was revised, provided for increased provincial grant support for Elderly Persons Housing. This revision also widened the scope of the Act to allow for development of Personal Care Homes by Non-profit organizations, with government grant support.
- (2) A new section was added to the Care Institution Regulations under the Public Health Act, to raise the standards and control the construction of new Care Institutions. Under this Legislation, the Province can now be assured that all new Care Institutions will be properly planned and constructed to provide the type of care for which they are intended. Also, standards of construction, planning, equipment and fire-safety, will be maintained at a high level.

Home Care

In an effort to expand the present Home Care program, hospital based programs are being developed in the Metropolitan area. These will be coordinated and possibly integrated with the expanding community type home care service now operated by Care Services. An active committee is studying coordination and integration and other groups are studying homemaker and meals on wheels services.

Construction of Facilities

Since 1958, the Elderly Persons' Housing Act has been developing excellent housing units and light care hostels for the elderly throughout the province. The tempo of this program has been increased in recent years.

ELDERLY PERSONS' HOUSING CONSTRUCTION PROGRAM

| Period | Accommodation in Hostels | Beds in Housing Units | Grants Involved |
|--------------------------------|--------------------------------|-----------------------------|--------------------|
| 1958 to mid/1964 | 904 | 707 | \$1,531,137.70 |
| Under Construction mid/1964 | 152 | 283 | 562, 143, 26 |
| Projects Approved in Principle | 249 | 396 | 864, 956. 44 |
| TOTAL | 1,305 | 1,386 | \$2,958,137.40 |

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| Percentage of Total Days | 29.1 | 44.9 | 41.8 | 50.1 | 49.1 | 27.8 | | 36.3 |
|--|----------------|-------------------|----------------|----------------|----------------|----------------|-----------------|---------|
| Private Days | 14,013 | 4,074 | 2,805 | 7,210 | 2, 202 | 882 | 1 | 31, 186 |
| Percentage of Occupancy | 70.9 | 55.1 | 58.2 | 49.9 | 6.03 | 72.2 | 1 | 63.7 |
| Social Allowance Days | 34, 133 | 4, 993 | 3, 906 | 7, 190 | 2, 280 | 2, 290 | - | 54, 792 |
| Percentage of Occupancy | 97.4 | 97.4 | 95.2 | 92.7 | 100.0 | 98.0 | | 9.96 |
| Actual Days | 48, 146 | 9,067 | 6,711 | 14,400 | 4,482 | 3, 172 | | 85, 978 |
| Maximum Days On Licensed Utilized Beds | 49,410 | 9,310 | 7,050 | 15, 540 | 4,482 | 3, 210 | 1 | 89, 002 |
| Maximum Licensed Beds Utilized | 1,649 | 308 | 235 | 518 | 150 | 107 | No Report | 2,967 |
| | Metro Winnipeg | Central Interlake | Eastern Region | Brandon Region | Portage Region | Dauphin Region | Northern Region | TOTAL |

The discrepancy in total Licensed beds utilized in Table above and Table on page , is due to the fact that some Homes are late in reporting.

The revised Elderly and Infirm Persons Housing Act will allow government to provide grant support to Non-profit organization, such as Municipalities, Religious, Ethnic, and other groupings, for the development of heavier care Homes. It will encourage the development of new, properly planned institutions or facilities across the entire province, create new beds to meet existing needs and allow replacement of many outdated institutions.

In line with the new Government support program for creation of Nonprofit Homes, construction of new Proprietary Homes was allowed in 1964. To date, two new Proprietary Personal Care Homes have been constructed, and several more are under consideration and planning.

Coordination of Services

The Manitoba Hospital Commission is currently outlining its program for Extended Treatment and Chronic Care. It is intended that wherever possible, Non-Proprietary construction under the Elderly and Infirm Persons' Housing Act, will be planned on a coordinated basis with the Hospital Commission. This will mean full integration of services and care programs and maximum benefit to the patient.

In the past year, Arts and Crafts, Recreational and Diversional Activity and Occupational and Physiotherapy programs have been introduced into several homes.

Other projects involving psychiatric services, dental services, opthalmology services, in-service training and educational programs, are underway.

These programs are designed to broaden and improve the scope for care of the elderly and infirm, and ensure full utilization of all hospital services, including resources within the community.

PUBLIC HEALTH NURSING SERVICES

Central office nursing staff is responsible for developing and maintaining a high quality departmental public health nursing service throughout Manitoba.

Function of Public Health Nursing Service:

- 1. Administration including recruitment, orientation and assignment of staff;
- Consultation and Supervision to nurses assigned to health units;
- Provision of direct nursing service in special areas i.e. tuberculosis control, venereal disease control, care services and generalized public health nursing programs in specified geographical areas;
- 4. Development of educational programs including:
 - (1) orientation of new staff
 - (2) in-service education for all staff
 - (3) affiliation programs for undergraduate student nurses
 - (4) affiliation programs for post-graduate student nurses
 - (5) administration and supervision of the practical nurse program including registration and licensure.

Nursing Personnel

Educat

| Director 1 | |
|--|--|
| Educational Director 1 | |
| Nursing Consultants: | |
| Generalized Public Health Nursing 3 | |
| Venereal Disease Control 1 | |
| Tuberculosis Control | |
| Care Services 1 | |
| Local Health Units | |
| Registrar-Consultant for Licensed Practical Nurses 1 | |
| Staff Nurses: | |
| Generalized Public Health Nurses | |
| Instructress - School for Practical Nurses 3 | |
| Nutritionist - School for Practical Nurses 1 | |
| tional Preparation of Staff | |
| Number of nurses with degrees 16 - 13.4% | |

The extent to which public health nursing services may be developed is dependent upon the quantity and quality of nursing staff available. Every effort has been made to recruit nurses who are particularly suited to this type of work. Affiliation programs for the undergraduate student nurse have created a greater interest in public health nursing and more young graduates are now seeking this kind of employment. For the greater part of 1964, the department has maintained a full complement of nurses, including the addition of three nursing establishments.

Number of nurses with Diplomas P. H. N. . . 58 - 48.7% Number of nurses with R. N. 's 45 - 37.9%

To sustain a high standard of quality of nursing services a well planned orientation experience is provided for each staff nurse, effective in-service educational conferences are held on a regular basis and skillful guidance and direction is given by the nursing consultants through individual and group

conferences. Nursing manpower is conserved by pointing the way to better use of the nurses' knowledge, skills and abilities.

Staff Education

Since its inception in 1916, nursing services in Manitoba has taken a keen interest in various forms of educational programs both in public health nursing conferences and health education.

In-service education for public health nurses has been developed through the years to the point where in 1964 one educational conference was held for senior nurses, two nursing conferences for 37 nurses in rural health units and one conference for 62 nurses in urban centres. Areas of study covered by these sessions included: needs of the adolescent, care and treatment of the mentally retarded child, geriatric care and the role of the public health nurse in follow-up care of patients discharged from psychiatric institutions.

Due to increasing demand for public health nursing services associated with community mental health programs, arrangements were made with Brandon and Selkirk Hospitals for Mental Diseases to provide a two-week affiliation for the nursing consultants and seven senior public health nurses. It is hoped that similar courses can be made available to other staff members involved in this program.

A pre-natal institute for public health nurses from Provincial and City of Winnipeg Health Departments and members of the Victorian Order of Nurses and hospital nurses was held in May, 1964. Planned by Public Health Nursing Services, instruction was provided by the nursing service educational director assisted by nursing consultants. Fifteen nurses attended this ten-day institute.

Since responsibility for prenatal institutes and the organization of prenatal classes in Manitoba was transferred to Public Health Nursing Services in the Fall of 1963, an attempt has been made to visit nurses who are teaching classes in non-health unit areas with a view to reviewing class registrations, content material and teaching techniques.

| Institutes held under Federal Grants | Number Held | Staff Attendance |
|--------------------------------------|----------------|---------------------|
| Prenatal | 1 | 15 |
| Staff Educational Conferences | | |
| Urban | 1 | 62 |
| Rural | 2 | 37 |
| Senior Nurses | 1 | 16 |
| Graduate Student Program | Number | of Students |
| Public Health Nursing Students | | 7 |

Student Affiliation

Traditionally interested in the development of education programs for student nurses, the department arranged for suitable health experience for 298 student nurses from the various Schools of Nursing and the Manitoba University. This experience provided by local health unit personnel not only gives the young nurse a better understanding of the public health program but also contributes to continuity of patient care and recruitment of staff.

Individual staff members interested in education programs have also given much of their personal time to professional organizations responsible for the preparation of professional nursing personnel.

| Un | dergraduate Affiliation Programs | | Time |
|----|--|-----|-------------------|
| | Brandon General Hospital - Junior | 46 | 1 day |
| | Brandon General Hospital - Second Year | 32 | $\frac{1}{2}$ day |
| | Brandon General Hospital - Senior | 19 | 2 weeks |
| | St. Boniface General Hospital | 47 | 1 week |
| | Misericordia General Hospital | 88 | 2 weeks |
| | Grace General Hospital | 55 | 2 weeks |
| | Victoria General Hospital | 4 | 1 week |
| | Total | 291 | |

Tuberculosis Control

The maintenance of a central registry for tuberculosis is the responsibility of a public health nursing consultant, who also assists in planning tuberculosis clinics and acts as liaison between hospital and community. Details of activities in the tuberculosis field are outlined in the Preventive Medical Section.

Venereal Disease Control

In the extremely active area of venereal disease control, a public health nursing consultant and two public health nurses interview patients in clinics, do contact tracing, follow up delinquent patients and carry out an extensive preventive program at the Manitoba Home for Girls, the Provincial Gaol and Home of the Good Shepherd.

A measure of their activities is reflected in statistics related to this work. In 1964, 1,033 persons were named as Venereal Disease sources, or contacts in the Greater Winnipeg area as compared with 956 in 1963. Of this number 523 were located; 416 required treatment for gonorrhea and 30 required treatment for syphilis.

Efforts concerning delinquent patients and contact tracing required 704 home visits, an increase of 286 over last year.

Institutional work called for 184 visits and 677 examinations. Of these, 30 girls required treatment for gonorrhea and two for syphilis.

Further details concerning Venereal Disease Control are reported in the Venereal Disease Section of Preventive Medicine.

Care Services

The supervision of care being given to 1,834 geriatric patients located in thirty nursing homes and approximately 592 patients in private homes in Metropolitan Winnipeg, in addition to work in assessment and placement, presents a real challenge to the Nursing Consultant and three staff nurses assigned to Care Services. A comprehensive outline of nursing activities in the Care field is reported in the Care Services Section.

Nursing Service to Non-Health Unit Areas

Through a special arrangement with the Village of Brooklands, one public health nurse serves this area three days per week. An attempt is made to carry

out a generalized public health nursing program but demand is such that service is limited in some respects.

The only provincial nursing station in operation in Manitoba is located at Grahamdale in the Inter-Lake area. On call twenty-four hours a day, the public health nurse operating this station provides bedside and clinical nursing in addition to a generalized public health nursing service. Patients are referred to a doctor when conditions indicate this is necessary.

In other areas not served by local health units, public health nursing service is provided on a request basis only. Requests are received from physicians, local school boards, school inspectors, principals, teachers and parents, and referrals from private physicians, hospitals and other health and welfare agencies.

Assistance was also given on several occasions to Care Services in conducting functional assessment surveys of elderly persons in the Home Family Nursing Home, Winnipeg, Notre Dame, Winkler, Altona, Carman and Neepawa areas.

Sabin Campaign

One of the greatest problems to arise in the non-health unit areas during the past year was that of administering Sabin Vaccine to approximately 170,000 persons living in rural Manitoba without organized public health nursing service. Where it could be arranged, health unit personnel and nurses from Indian and Northern Health Services assumed responsibility for those municipalities surrounding their districts. Four nursing teams, consisting of a nursing consultant as leader and public health nurses from suburban health units with the assistance of four health inspectors, were organized to carry out the program in southern Manitoba. Co-operation and assistance received by nursing staff from community groups contributed to the success of the Sabin Vaccine program.

Practical Nursing Program

Two courses of education are open to young people in Manitoba wishing to become licensed practical nurses.

The Central School for Practical Nurses at the Manitoba Institute of Technology and the St. Boniface School for Practical Nurses offer a one-year course of four months in the classroom and eight months of clinical hospital experience.

An alternative program is provided through a three-year combined psychiatric and practical nursing course offered at Brandon and Selkirk Hospitals for Mental Diseases and the Manitoba School for Mentally Defective Persons in Portage la Prairie.

Responsible for the development and administration of the practical nursing educational program, the Registrar-Consultant reports that 154 were licensed from the one-year course and 29 from the three-year course during 1964. There are at present 1,395 active licensed practical nurses in Manitoba.

There seems to be an increasing interest in practical nursing as a career, with 55 students enrolled for the January 1965 class at the Manitoba Institute of Technology. Eighty students have been accepted for the August 1965 class and 21 students accepted for the January, 1966 class. Thirty-eight other applications are being processed at the present time.

PRACTICAL NURSING

| One Year Course | | Central | St. Bonifac | | Increase or |
|---|-----------|--------------|--------------|------------|--------------------------|
| One Year Course | - | School | School | Total | Decrease |
| Students enrolled in 1964 | | 100 | 88 | 188 | + 6 |
| Students who withdrew in Students who completed to | | 7 | 5 | 12 | |
| course in 1964 | iic . | 101 | 73 | 174 | +15 |
| Students who became L. I | . N. 's | | | | |
| in 1964 | | 90 | 64 | 154 | + 1 |
| Three Year Combined - 1 | Psychiatr | ic and Pra | ctical Nurse | Course | |
| | Brandon | Portage | Selkirk | | Increase or |
| | Mental | Mental | Mental | Total | Decrease |
| Students enrolled in 1964 | 23 | 12 | 20 | 55 | |
| Students who withdrew in | | | | | |
| 1964 | 16 | 5 | 9 | 30 | + 6 |
| Students who completed | | 40000 | | | |
| the course in 1964 Students who became | 16 | 7 | 6 | 29 | - 8 |
| L. P. N. 's in 1964 | 15 | 7 | 7 | 29 | + 2 |
| | | | | | |
| Results of State Board Te | | | | | |
| Candidates - 209 Students | | | | | 18 failures |
| 20 Students | | | outside Mani | toba | 5 failures - failures |
| | with par | tiai it. iv. | | | |
| Total 243 | | | To | otal | 23 failures |
| PASSED - 90.1% | | | FA | AILED - | 9.90% |
| Number of new practical | nurse lic | ences issue | ed | | 208 |
| Number of practical nurs | | | | | 1,349 |
| * Provisional Practical Nu | rse perm | its issued | 2 | 255 | |
| Exchanged for Practical | | | | | |
| Total number holding a P | rovisiona | l Practical | Nurse Perr | nit | 53 |
| Total number holding Pra | | | | | |
| | | | | | |
| Provisional Practical Number the applicant has complet | | | | cence wher | 1 |
| the approant has complet | eu requir | ements 101 | the same. | | |
| LICENCED PRACTICAL | NURSES . | ACTIVE IN | MANITOBA | | 1,395 |
| LICENCED PRACTICAL | NURSES . | ACTIVE O | UTSIDE MAN | NITOBA | 162 |
| | | | T | OTAL | 1,557 |
| | | | | | |

On December 11, 1964 a one-day conference was held for Registered Nurses who assist in the clinical area of the practical nurse training program. Centering around the clinical aspects of practical nursing, the conference was attended by 64 nurses from the 22 hospitals in Manitoba offering clinical experience.

Complying with a request from Licenced Practical Nurses, the Education Committee and Advisory Council for Licenced Practical Nurses have sanctioned an in-service educational conference in the Spring of 1965. Questionnaires concerning program content are being mailed with notices of licence fees for 1965.

The closing of the Doctors' and Nurses' Registry on December 31, 1963 has meant that a great many phone calls come to the office of the Registrar-Consultant. An attempt has been made to find practical nurses for all patients requiring help in homes. One hundred and forty-three placements have been made and arrangements completed for another forty-five where placement did not occur for one reason or another. Approximately fifty nurses are available for home nursing and are kept busy.

DENTAL SERVICES

Dental Services are directed toward the improvement of the level of dental health for all Manitobans. This objective is approached on four fundamental principles; Dental Health Education, studies of dental health problems, utilization of effective dental public health measures, and dental treatment under certain circumstances.

Dental programs for the Province are co-ordinated from a central office in Winnipeg. Activities are chanelled through four regional offices - one at Dauphin, one at Brandon and two in the Norquay Building in Winnipeg. The two regions covered from Winnipeg include the area from Lake Manitoba to the Eastern and Southern borders of the Province; and the three local health units in the suburbs of Greater Winnipeg.

Established Positions

8 Dentists - 1 Director

- 4 Regional Directors, Dental

Public Health

4 Clinical Dentists

2 Dental Hygienists

8 Dental Assistants

1 Secretary

PROGRAM PLAN

A province-wide Dental Health Education program is underway, including studies of dental needs of municipalities upon request of the local government, health unit, or school agency. This program is aimed at motivating parents and children to improve oral dental health. Activities involve:

- (a) Rural School Projects special efforts are made by dental staff to visit small schools throughout the province. Approximately 80 schools are visited each month during the school year. Visual aids, classroom demonstrations, and distribution of pamphlets, and personal contact with teachers are utilized to promote dental health education.
- (b) <u>Classroom Dental Inspections</u> This project generally results in an application for treatment service through one of the two schemes available to Rural Manitobans not having a resident dentist. Subsequent reports are used in assaying a community's needs.
- (c) Annual Dental Health Week Program in co-operation with the Manitoba Dental Association.
- (d) <u>Professional Education</u> seminars and conferences held with school teachers, nurses, and groups of rural dentists. Also, contributions were made to public health lecture series of the Dental and Medical Colleges of the University of Manitoba, Teachers' College in Brandon and three of the nurse training hospitals in Winnipeg.

Dental Education Program

The following Municipalities had visits from Dental Health Education Teams.

REGION I

| Ethelbert Grandview Mossey River Snow Lake McCreary Clanwilliam | | Alonsa Ochre River | | Boulton Lawrence St. Rose Minto | |
|---|--|----------------------------------|---------------------------|--|---|
| | | REGION II | _ | | |
| Woodworth Elton Victoria | Blanshard Cornwallis MacGregor | REGION II | Daly Oakwood Rivers | | Whitehead North Cypress North Norfolk |
| | Aveluinos | ILLOION II | | | |
| Eriksdale Hanover | Coldwell Morris | | | | |
| Montcalm | Franklin | DeSalaberry Rhineland Emerson | | Rimerand | |
| | - Control of the Cont | | | | |
| | Children's | Nu | ımber | N | umber Children |
| | Dental | | hools | Att | tending Education |
| | Inspections | Vi | sited | 1 | Program |
| Region I | 550 | | 88 | | 8, 205 |
| Region II | 5,172 | | 152 | | 7, 035 |
| Region III | 2,719 | | 27 | | 2, 719 |
| TOTALS | 8,441 | | 267 | | 17, 959 |

Studies on Dental Health

- (a) A classroom dental survey and educational project covering Grade I to Grade IV in fourteen municipalities was brought to a conclusion this year, as its major aim had been achieved. These aims were to gather data required for future planning and to secure financial support from all fourteen communities for an interceptive treatment, educational and preventive program.
- (b) A pilot project utilizing staff dentists, assistants and student dental hygienists in a combined treatment, educational and preventive program, was successfully operated in four of the municipalities during

the summer period. This program demonstrated the feasibility of operating clinics in the suburban areas during the summer holiday period, and of utilizing student hygienists at the end of their first year of training.

- (c) A project to gather base-line data of an epidemiological nature on all Grade II children in one municipality, utilizing dental students in their first year has been completed. The data will be used to test the long range effect of the program carried out at Grade I level.
- (d) A pilot project utilizing student dental hygienists in the final term of their two-year course to provide prophylactic, preventive and educational programs for brain-damaged children in the St. Amant Ward.
- (e) Five towns received pre-fluoridation surveys in preparation for installation of treatment systems.
- (f) Classroom dental inspections provide information of local interest, in addition to comparative data on the evaluation of dental health education programs.
- (g) Dental information was collected for Care Services regarding oral health of a select group of institutionalized aged and infirm citizens.
- (h) A consultant service has been provided regarding construction, equipment and staffing of the psychiatric hospitals in the Province. Also, a study was completed and recommendations were given to a charitable organization regarding the purchase of equipment, and establishment of a dental clinic for indigent adults and teenagers in Wilnipeg.

DENTAL TREATMENT

Child Dental Treatment Program - designed to support dental health education programs, especially in areas where no dentist is established. Prevention and interception are the objectives in the program.

Dental Care is available ''free'' to all children in a community utilizing the Province's dental clinical services, (Indian and Welfare included). Financial and accommodation arrangements are made by a local sponsoring agency - Municipality, Voluntary Organization, School District or Welfare Agency. An incremental program commencing with preschoolers, Grade I, II, III is organized to provide comprehensive dental treatment to the extent of facilities available through mobile clinics for those communities interested in accepting the dental health improvement treatment program. Continuity is maintained by routine and regular clinics held on a six to eight month basis.

Clinical services are not primarily a welfare or indigent service, but a means to accomplish the desired end of assisting rural citizens to help themselves attain better oral health.

A special clinic for Mentally Retarded and Handicapped Children is also provided for children confined to St. Amant Ward. This is a team effort requiring dental and medical considerations including general anaesthesia.

Mobile Dental Clinics

| The following is a record of the activities of mobile clinics during | 1964: |
|--|--------|
| Number of Clinic Days | 414 |
| Number of Schools | 78 |
| Number of Children Treated | 3,829 |
| Number of Children Completed | 1,614 |
| Number of Children Not Requiring Treatment | 603 |
| Exodontia - Deciduous Teeth | 2, 254 |
| Exodontia - Permanent Teeth | 467 |
| Restorations - Amalgam Surfaces | 6,979 |
| Restorations - Silicate Surfaces | 316 |
| Prophylaxis | 781 |
| Other Treatments | 4,664 |
| Children Absent During Time of Clinic Visit | 117 |
| Children Whose Parents Declined Service | 838 |

Clinics were held at the following locations during the year:

| R. M. DeSalaberry |
|--------------------|
| R. M. Grahamdale |
| R. M. Miniota |
| The Pas |
| Brookdale |
| Springfield Colony |
| Milltown Colony |
| Swan River |
| Moose Lake |
| Gypsumville |
| Duck Bay |
| Cranberry Portage |
| Camperville |
| Ashern |
| Manigotogan |
| Wanipigow |
| Fairford |
| |

St. Boniface Health Unit St. James-St. Vital H. U. Kildonan-St. Paul H.U. Binscarth Oak Bluff Colony Clearwater Colony Huron Colony La Fontaine Berens River Churchill Dog Creek Fisher Branch Thicket Portage Cormorant Wabowden Clear Creek

Dental Care Plan

A scheme is available whereby a community can obtain a dentist on a part-time private practice basis where there is no dentist available. This is a joint effort between Dental Services and the Manitoba Dental Association. The Health Department provides and transports mobile dental equipment to a location when an agreement has been reached between a dentist and the community. Clinics are generally of a week's duration.

PUBLIC HEALTH LABORATORY SERVICES

A comprehensive versatile laboratory service is provided to the medical profession, public health workers and the general public by the Fred T. Cadham Public Health Laboratory.

This laboratory services, centred in the Medical College Building in Winnipeg, is staffed by two medically qualified laboratory specialists, a bacteriologist, biochemist and a complement of technicians, laboratory assistants and clerical staff. The chemist, one laboratory technician and one clerktypist are located in the laboratory of the Brandon Hospital for Mental Diseases. This branch laboratory deals with laboratory services both at the Brandon Mental Hospital and the Laboratory and X-ray Units in the western part of the province. Branch laboratories at Dauphin and the Norquay Building in Winnipeg, where sanitary bacteriology is done, also come under the administrative control of the Cadham Laboratory.

Work Load

| Dominion Bureau of Statistics Units from Provincial Laboratory | 389, 481 |
|---|----------|
| Dominion Bureau of Statistics Units from Dauphin and Brandon | 44, 989 |
| | 434, 470 |
| Dominion Bureau of Statistics Units for the Year 1963 was This shows an increase of 3% in 1964. | 421, 283 |

Detailed services include: diagnostic bacteriology; milk and water examinations; syphilis serology tests, food examinations, clinical pathology's consultative service; control program and training; applied research; and emergency services.

Long Established Programs

Diagnostic Bacteriology

All physicians in the province who do not have local facilities to examine specimens for possible pathogenic micro-organisms, are provided a diagnostic service whereby identification of these organisms and antibiotic sensitivity tests may be done. Thousands of specimens annually in the form of nose and throat swabs, sputa, urine, feces and wound swabs are received from various parts of the province. Multiple laboratory procedures, sometimes necessitating animal inoculations are often necessary in the examination of a single specimen. This service is of benefit to the practitioner who is treating an infection in hospital or in a home and also to the epidemiologist who is tracking down a suspect case or carrier who might spread disease organisms throughout a community. During the past year the Cadham Laboratory was able to assist the Provincial Epidemiologist in detecting and isolating cases and carriers of diphtheria and in the detection of multiple cases of typhoid and the investigation of contacts of these cases. The typhoid cases resulted in the examination of hundreds of blood and stool specimens for detection of the carrier state.

a. Bacteriology of wounds, exudates, etc.

| Spe | cimens for: | |
|-----|---|--------|
| 1. | General examination | 7,553 |
| 2. | Examinations for staphylococcal infections | 322 |
| 3. | Antibiotic sensitivity of bacteria | 4,569 |
| 4. | Bacteriophage typing of staphylococci | 738 |
| | cific Bacteriology | |
| 1. | Tubercle bacilli(1.4% of which were positive) | 2,794 |
| 2. | Gonococci(9% of which were positive) | 3,721 |
| 3. | Salmonellae and enteropathogenic | |
| | E. coli, etc(3.6% of which were positive) | 2,024 |
| 4. | Diphtheriae | 3, 245 |
| 5. | Hemolytic Streptococci | 2,873 |

Sanitary Bacteriology

b

Sanitary bacteriology involves testing which is desinged to establish the potability of milk products and drinking water. These tests are performed at the laboratory on the tenth floor of the Norquay Building and also in the small branch laboratories at Dauphin and Brandon.

Milk and water examinations are done on a routine scheduled basis in cooperation with health officers and sanitary inspectors. Water examinations include specimens from municipal supplies, wells, rivers, lakes and even sewage when requested. Milk examinations are done not only on pasteurized milk and milk products but also on raw milk taken from the dairy.

During the year the Cadham Laboratory took on all the sanitary bacteriology that was formerly carried out by the City of Winnipeg. The Department of Health, through the Laboratory Services, now exclusively examines raw and pasteurized milk products for bacterial content.

Seasonal demand for the examination of waters from modified and other outdoor swimming pools was also met by the Sanitary Bacteriology Department. Restaurant eating utensils such as cutlery and pottery are examined for adequate cleansing by the swab rinse technique in the milk and water section upon request.

| Milk samples, including branch laboratories at Brandon and Dauphin | 11,484 |
|--|--------|
| Water samples, including branch laboratories at Brandon and Dauphin. | 18,688 |
| Restaurant survey swabs, including branch laboratory at Dauphin | 1,323 |
| Raw milk examinations | 5,746 |

Syphilis Serology

Examination of blood samples for the detection of syphilis is another important and long established function of the laboratory. During the year over ninety thousand separate specimens were received for testing. Specimens are received from physicians all over the province and may be requested on the basis of routine procedure, diagnostic procedure, as a guide to therapy and as part of a pre-employment, pre-natal or pre-marital examination.

Work is still underway in the use of a fluorescent microscope technique to confirm specimens found reactive by other less specific tests. The laboratory staff are also working in co-operation with the Director of Venereal Disease

Control in tabulating medical findings recorded from patients attending the Provincial Venereal Disease Clinic and in correlating these findings with the serological results as obtained in the laboratory.

Non-Syphilis Serology

Serological investigations are also performed to aid the physician in the investigation of patients with rheumatic diseases, enteric fevers, brucellosis and infectious mononucleosis.

a. Rheumatic Diseases

| 1. | Antistreptolysin titre | 2,587 |
|----|------------------------|-------|
| 2. | C. Reactive Protein | 1,500 |
| 3. | Latex Fixation | 1,927 |

b. Infectious Diseases

| 1. | Typhoid, Paratyphoid | 696 |
|----|---|-------|
| 2. | Undulant Fever(42% of which were positive) | 931 |
| 3. | Infectious mononucleosis (10% of which were positive) | 1,557 |

EXPANDING PROGRAMS

Food Examinations

This work is done in close co-operation with the section of Food Control. No investigation is proceeded with until the nature of request and preliminary investigation has been undertaken by Food Control.

Examinations may be done on newly processed and packaged foods when introduced on the market. This is done not only where there has been some indication of unwholesomeness but also where, by nature of the product, it is anticipated that some difficulty may arise as to its quality.

Similarly, after consultation with Food Control and/or the Director of a local health unit, any foodstuffs which are suspected of being responsible for cases of food poisoning, are examined.

New techniques in the field of food bacteriology are constantly being developed and it is envisaged that the examination of food products may shortly become a major function of the laboratory.

Clinical Laboratory Service

This service is provided by the Cadham Laboratory and the Brandon Mental Hospital Laboratory to supplement services at the local level in Laboratory and X-ray Units. The Cadham Laboratory has been of great assistance to the Manitoba Rehabilitation Hospital in performing clinical chemical estimations and the examination of blood films which the institution has not been able to cope with in its own laboratory.

| Hematology | | 360 |
|--------------|--------------|-------|
| | Examinations | 1,246 |
| Biochemistry | | 3.166 |

W PROGRAMS

During the year the Cadham Laboratory commenced a pilot project on newins at the Winnipeg General Maternity Pavilion for the detection of elevated
od phenylalanine levels. This involves a simple test procedure whereby a
op of blood obtained from a newborn's heel puncture is put on a piece of suite blotting paper. A disc is punched out of the blotting paper and the presence
a zone of growth about the disc on a spore plate is noted. By this technique
e can rapidly screen newborns as to the presence or absence of an inborn
ror of metabolism known as phenylketonuria. If this is not detected within the
est few weeks of life, progressive brain damage and eventual idiocy will result.
his program will be extended to eventually encompass all the newborns in the
ovince.

ONSULTATIVE SERVICES

oference Bacteriology

This service is provided to physicians and hospitals throughout Manitoba. n example would be the phage typing of coagulase positive staphylococci for pidemiological purposes and the complete identification of organisms difficult identify. The bacteriological department cooperates with the provincial eterinary department when requested to aid in the investigation of epizootics and possible contamination of animal foods.

aboratory Supervision and Training

The Cadham Laboratory, with assistance from the Brandon Mental lospital Laboratory, provides technical assistance and supervision to all laboratories coming under Laboratory and X-ray Unit coverage. Technical advice is provided to other laboratories on request. The Cadham Laboratory has also provided working space and office space for a fulltime senior technician who is engaged in the laboratory supervision of Laboratory and X-ray Units. This ravelling technician works under the immediate technical supervision of the senior members of the Cadham Laboratory staff. A permanent committee consisting of the Director of Health Services and personnel from the Cadham Laboratory meets regularly to consider technical and administrative problems arising in Laboratory and X-ray Units.

Technician Training

Although student technician training is now concentrated in the Manitoba Institute of Technology and the laboratories of affiliating hospitals, the Cadham Laboratory still offers in-service training to technicians both in Laboratory and X-ray Units and from outside the service. During 1965, there were 65 technology students in training under bursary in the Province.

The central laboratory also participates in an educational program for medical students and physicians preparing for specialities. The Director and Assistant Director are members of the Medical College Faculty and participate in instruction to medical students in bacteriology and public health. The laboratory arranges promotional examinations for technicians on establishment and for those working with Extension Health Services.

The Director of the Cadham Laboratory is a member of the Advisory Committee to the Department of Education on laboratory training.

Applied Research

Studies have been carried out over the past year on fluorescent antibody techniques in the detection of pathogenic E. coli from stools. Some fluorescent antibody technique studies were also done on the identification of group A haemolytic streptococci. Although both these studies are far from complete, at least they have laid the groundwork for future investigation. It is also hoped that the fluorescent antibody technique for the detection of syphilis may be incorporated into the routine serological investigation for syphilis.

Virus Laboratory

The Cadham Laboratory co-operates with the Virus Laboratory of the University of Manitoba in providing diagnostic virus services. The Director of the Cadham Laboratory is also a co-director of the Virus Laboratory and a proportion of the Central Laboratory appropriation is given over to the maintenance of virus diagnostic service.

Emergency Services

In the event of a national emergency, the Central Laboratory has plans to transfer activities to its western division at the Brandon Mental Hospital Laboratory, where fundamentally important laboratory tests aimed at maintaining safe water, milk and food supplies would be performed.

NORTHERN HEALTH SERVICES

This organization is now in its fifth year of operation. The original fiveyear plan, as set out in 1959, has by and large been completed. The plan of 1959 was broadly as follows:

- (a) To establish clinical treatment centres in all areas where there was no available medical practitioner. This has been done in the form of Nursing Stations or clinical facilities in areas up the Hudson Bay Line and in areas like Moose Lake, Grand Rapids and Easterville.
- (b) To provide trained personnel to work from these clinic stations and in some cases, for a resident Nurse's Aid, Licensed Practical Nurse or Lay Dispenser with drug cache, to be on hand to treat where possible, the patients attending the clinics requesting medical assistance.
- (c) In the field of Environmental Sanitation, to provide methods of human waste disposal, garbage disposal, and also to insure that each community had safe drinking water.
- (d) To establish the best possible communications between all outlying areas with the base at The Pas. This has been done by means of telephone or M.T.S. radio telephone.
- (e) Regular monthly staff visits by the Medical Director from The Pas to each area when possible, or to substitute with a trained Public Health Nurse.
- (f) To bring about a program of Preventive Medicine and to follow-up with the clinical treatment aspect of the scheme.
- (g) To endeavour to educate the population, especially Indian and Metis in each area, as to: the need for good hygiene in their homes, proper prenatal supervision for expectant mothers, the importance of preventative vaccine innoculations and regular chest x-rays as part of the Sanatorium Board's program of Tuberculosis control.
- (h) Close scrutiny and follow-up on all cases of Venereal Disease.
- (i) Extension of existing Public Health Inspector's scrutiny of restaurants, all food and milk processing establishments and supervision of fish handling throughout the numerous small fish stations as part of a program of quality control for Manitoba's northern fishing areas.

The foregoing program has been consolidated and indeed expanded this year'but has brought with it the problem of maintenance of the services that have been instituted. Communications and transportation still remain difficult from isolated areas where there is no rail or road facility, but despite this there have been few instances where patients have not been tended to and brought to the nearest hospital if severely ill, even from some of the most remote areas. The Manitoba Government Air Service and Lamb's Airways have been at all times co-operative and have done their best to facilitate the movement of patients. Many patients are moved by rail on the CNR route (Bay Line).

This year the Grand Rapids Manitoba Hydro scheme has brought about two essential geographical changes - one has been the raising of the lake water level at Moose Lake, necessitating the movement of some thirty odd houses by the Forebay Committee. These houses were destroyed and new houses built, by, and at the expense of, the Forebay Committee.

Secondly, the community formerly known as Cedar Lake has now been

moved entirely to a new location at Easterville as this area will eventually be entirely under water. All the housing at Easterville - either new, or moved from Cedar Lake, has been provided by the Forebay Committee.

Sanitary Services

| Plumbing Inspections | 44 |
|--|--------|
| Sewage Disposal Systems - Private | 105 |
| Municipal Disposal Systems or Water Supply | 134 |
| Public Premises and Public Accommodation | 35 |
| | 1 |
| Industrial Premises and Offices | |
| Private Premises | 1, 243 |
| Camps | 55 |
| Bathing Premises | 12 |
| Schools | 7 |
| Vermin and Rodent Control | 4 |
| Waste Disposal Grounds | 32 |
| Nuisances | 163 |
| Institutions and Boarding Homes | 5 |
| Barbershops | 17 |
| Raw Milk Producers | 61 |
| Milk Processing Plants | 100 |
| Food Retail Outlets | 71 |
| Restaurants and Beverage Rooms | 100 |
| Food Processors | 147 |
| | 1 |
| Food Complaints | 1 |
| Bacteriological Analyses - Water | 423 |
| Milk Raw (Resazurin and Loop Plate Count) | 311 |
| Milk - Pasteurized | 188 |
| Field Tests (O. T., C. O., Etc.) | 40 |
| Butter Fats | 309 |
| Meetings | 45 |
| | 40 |
| Nursing Services | |
| Child Health Clinic Attendance | 2, 475 |
| D. P. T. and P. Innoculations | 825 |
| Smallpox Vaccinations | 171 |
| School Visits | 300 |
| Home Visits | 915 |
| Typhoid Innoculations | 16 |
| X-ray Surveys: | |
| Thicket Portage 758 | |
| Pikwitonei | |
| Moose Lake | |
| Cedar Lake | |
| Grand Rapids | |
| The Pas | |
| Wanless | |
| Polio Vaccines | 13,835 |
| Cytology Examinations (Pap Smears) | 30 |
| oj vorogj Examinations (rap omears) | 30 |

Activities and Problems in Specific Regions

The Pas

School immunization coverage in The Pas (population 6,000; school population 1,900), has been extremely thorough. Special efforts have been directed towards certain public health problems that have arisen with the integration of children from a local reserve settlement to town schools.

General services provided by the public health nurse at The Pas include: Child Health Conferences, Well Baby Clinics, Prenatal Classes, School Immunization Programs, Home Health Visits, Contact Tracing for Venereal Disease Cases, Tuberculosis follow-ups and mental health problems.

Sanitation and food quality control checks, including milk sampling, have not shown any deterioration in The Pas during 1964. Extra stress has been placed on milk quality sampling and control and inspection of all eating establishments. The Pas water supply is tested twice daily.

The Bay Line Communities

The Public Health Nursing and treatment clinic program has been maintained for these communities on a monthly basis and drug caches operated by Lay-Dispensers.

Clinical buildings up the Bay Line which were part of the "Kelsey Project" are almost completed and each one is in a habitable and workable condition.

There are still problems of water supply and electricity at Wabowden Nursing Station which is the base from which the Bay Line Nurse works her area.

A larger percentage of time occupied by the nurse on the Bay Line concerns treatment clinics which are extremely well attended and immunization programs for children.

A pilot program of home treatment for T.B. patients from Thicket Portage has been underway during 1964. These patients have been discharged to their homes from Clearwater Sanatorium and Ninette. They are kept under close surveillance by the Lay-Dispenser and Public Health Nurse in that area. No difficulties have arisen in continuing the medicinal treatment of these T.B. patients and it is hoped that this scheme may be a good example for home treatment despite what seem to be adverse home conditions for treating such cases.

Maternity cases on the Bay Line, for the most part, come to St. Anthony's Hospital at The Pas for their confinement but many babies are delivered at home, often under the care of a local midwife, with advice, when requested, from the Public Health Nurse and sometimes from the Lay-Dispenser in each area. Most complicated maternity cases are advised to come to The Pas for delivery. In northern and more adjacent sections of The Bay Line, it has been the policy to use Thompson Hospital as a point of entry for acutely ill cases.

The Bay Line is most certainly the most arduous Public Health Nursing task in Northern Health Services as the nurse has to rely on train schedules at all hours - sometimes using way-freights to fulfill her commitment each month. The Medical Director's clinical trips on the Bay Line are done by aircraft to facilitate coverage of a clinical schedule within five to six days. By train, this schedule would take 14 days. Clinical trips are made each month.

Churchill

One public health nurse and one Cree Indian Nurse's Aid hold Well Baby and Immunization Clinic Programs at Churchill and sickness clinics, mostly for inhabitants of the Chipewyan Camp 10 and Churchill flats.

With regard to Environmental Sanitation, in the townsite of Churchill, most houses do not have running water but rely on a town delivery service for water supplies. There is no main sewage disposal system and households rely on chemical and pail type closets which are emptied into large communal pits which are periodically pumped out. Garbage collection is still rather spasmodic but the town Administrator is aware of the inadequacies of the service and is attempting to improve conditions.

Moose Lake

This community of some 400 persons has been served through periodic visits by a public health nurse and the Medical Director. Continuous, limited service is provided by a permanent resident Indian Nurse's Aid. Clinics are held in a building owned by the Anglican Parish. Immunization programs are well advanced but this community has problems of pediculosis, impetigo, scabies and venereal disease similar to other areas throughout the north.

Moose Lake's population was effected to a small extent by the Grand Rapids Hydro scheme as the lake water level was raised sufficiently to flood out some 30 houses. Forebay Committee of Hydro provided new houses to replace those that were at the flooding level. When new houses were provided, a sanitary pick-up scheme for human night soil and garbage was put into operation. As Moose Lake's drinking water supply is from wells which could become contaminated from human feces, a system of concrete slabs with privy pails for night soil was established by Northern Health Services. A tractor, a tank-type wagon and garbage pick-up trailer were purchased by Northern Health Services on behalf of the Forebay Committee who provided the timber and materials to make garbage stands and also paid for garbage cans for each household. The sanitary pick-up scheme was set in motion in September with Northern Health Services employing two local men to operate the scheme, at a cost of \$435.00 per month. This sanitary pick-up system has been operating fairly smoothly.

Easterville

This is a new community with almost entirely new houses. The inhabitants are of the Cedar Lake Band who reluctantly moved from their former location at Cedar Lake as part of the Hydro Grand Rapids relocation scheme. Cedar Lake will eventually be completely flooded out once the waters rise in the Hydro Forebay.

Easterville now has a new Nursing Station built by the Forebay Hydro system and this is staffed by a resident Licensed Practical Nurse. The Nursing Station is to contain the usual drug cache and treatment facilities with the usual M.T.S. radio telephone contact with The Pas. Easterville's terrain is similar to Moose Lake, being on a limestone ridge, and sanitary necessities for this area are exactly similar to Moose Lake. Therefore similar night soil and garbage pick-up has become the responsibility of Northern Health Services and will require similar arrangement as at Moose Lake. In Easterville, equipment necessary to conduct such a scheme has been left by the Hydro authorities for the use of that community.

Transportation of acutely ill patients out of Easterville to The Pas is a problem in that landing conditions for pontoon aircraft in the bay at Easterville are often unsuitable due to high winds and waves. Many patients have been driven to Grand Rapids and treated by the Hydro doctor at the Hydro Hospital in Grand Rapids. This service however, will soon cease as the Hydro Hospital at Grand Rapids will be closed on completion of the construction project.

Grand Rapids

Population of this township, will be depleted to approximately 1,100 persons by the year end on completion of the hydro project. The Hydro Hospital will be closing at that time.

Northern Health Services has, to date, had a Nursing Station with public health nursing services directed towards school health and immunization programs. There will now have to be an extension of services, which will provide treatment as well as preventative health services.

The Nursing Station has been purchased by the Public Works Department, renovated, and the proper plumbing and septic tank sewage is now being installed at that station, which should be in operation early in 1965. A resident Licensed Practical Nurse will be stationed at Grand Rapids Nursing Station. It is expected that there will be a considerable increase in demand for air transportation of patients from Grand Rapids in the future. It is hoped that maternity cases occurring in Grand Rapids can be handled by Ashern or Winnipeg.

Grand Rapids' commitments can now be regarded as an extension of responsibilities for Northern Health Services at The Pas.

Lynn Lake

This year, in July, a Public Health Nurse was stationed at Lynn Lake Nursing Station which is the property of Indian and Northern Health Services. The nurse at Lynn Lake is co-operating with Indian and Northern Health Services in their commitment in that area plus instituting a Public Health program for that community. Child Health and prenatal clinics have been started. Immunization schemes and venereal disease control including follow-up has constituted the bulk of the work for the nurse to date. Lynn Lake is a mining town with its own company medical doctor.

This doctor is also a Deputy Medical Officer of Health and responsible to the Director of Northern Health Services for sanitation problems arising in this area. Sanitary inspection work at Lynn Lake is carried out by inspectors stationed at The Pas.

Thompson

Thompson is a well-organized mining town with company doctors acting as Deputy Medical Officers of Health. Inspection of eating establishments and other sanitary problems are handled by staff at The Pas.

Other Activities

A Sabin Polio campaign was carried out this spring and a cervical cancer ("Pap" smear) survey was done in Bay Line and Moose Lake areas.

Travel by Northern Health Services Personnel 1964

| | Train | Air | Road | Total | Monthly Average of Miles |
|------------------------------------|---------|-------|-------|---------|--------------------------|
| Medical Directors Public Health | 1879.4 | 19188 | 4977 | 26044.4 | 2, 170 |
| Inspectors Public Hea!th | 7742.3 | 17647 | 11291 | 36690.3 | 3,057.5 |
| Nurses | 16666.6 | 17180 | 19513 | 53359.6 | 4,446.6 |

