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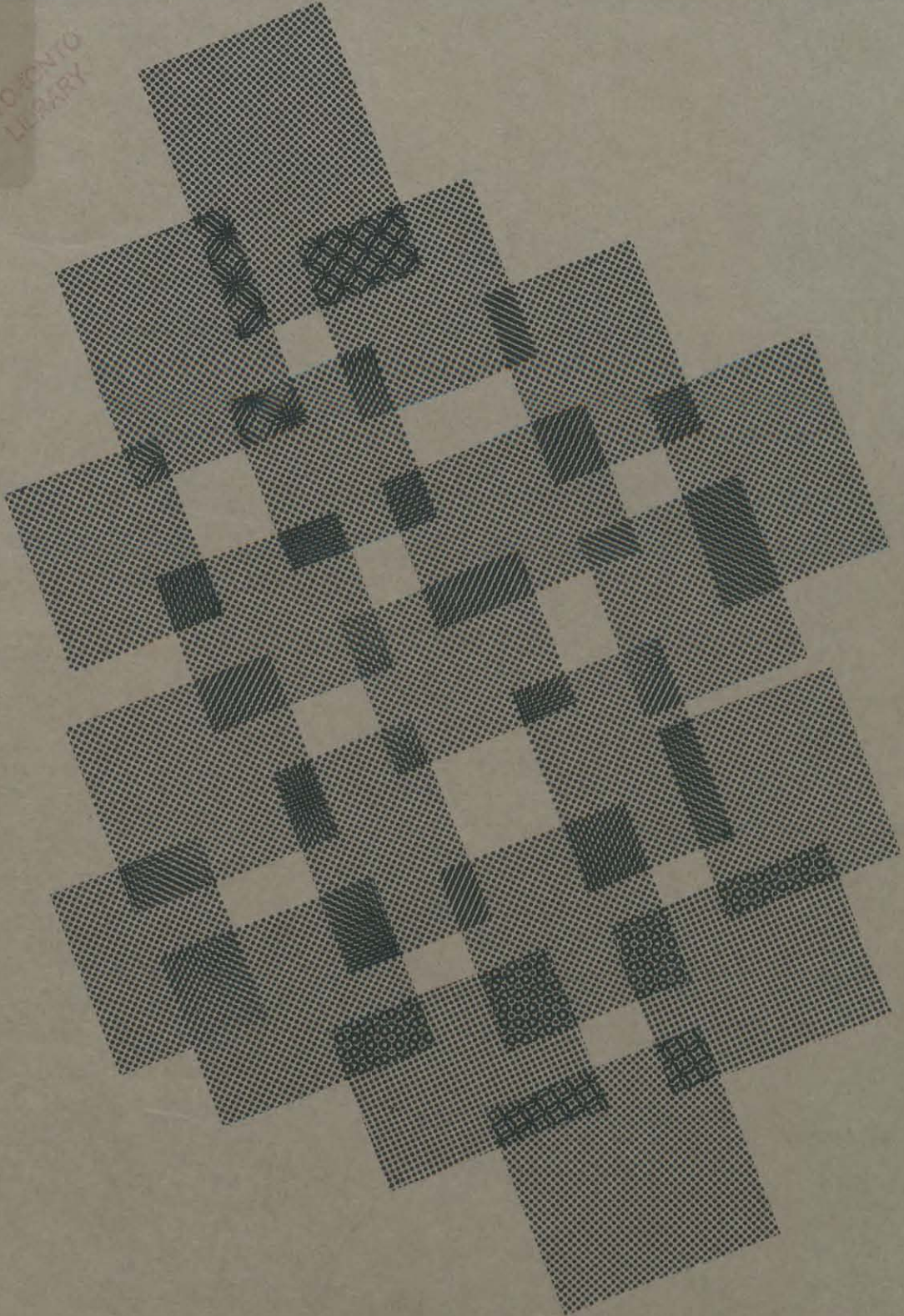
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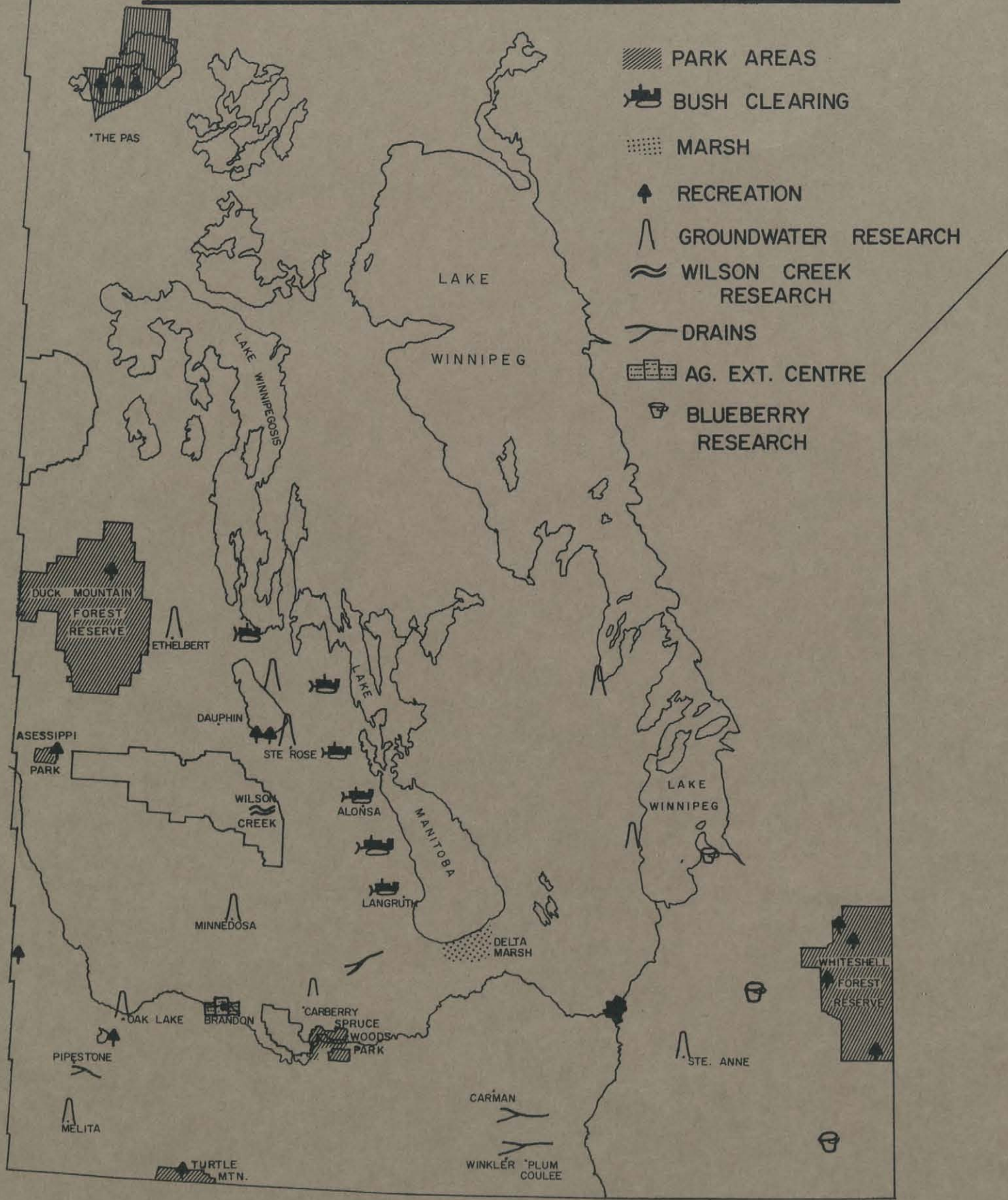
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ARDA RESOURCE PROJECTS - 1968



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-  MARSH
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-  WILSON CREEK RESEARCH
-  DRAINS
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FOREWARD

A.R.D.A. projects in Manitoba are carried out under a signed agreement with the Federal government that outlines the type of projects for which the Federal government will pay 50 percent of the costs.

Under the 1965-70 agreement, the Province of Manitoba has been able to receive up to \$1.8 million in federal funds per year. The province must match the federal contribution for each project undertaken, with the exception of certain research study projects.

The A.R.D.A. program was started in 1961 to try to deal with the problems of low standards of living within the rural community. Problems of low income in rural areas had been an annual topic for discussion at conferences dealing with rural concerns—notably, at many of the annual conferences of Ministers of Agriculture during the '50's. A special Senate committee on land use studied the problem of low income and provided suggestions on tackling the situation. The A.R.D.A. legislation of 1961 was based, to a large degree, on the findings of the Senate Land Use committee and on recommendations from the Ministers of Agriculture.

Under the first general agreement of 1962-65, the rural adjustment and development program in-

cluded projects for converting poor farms to forest use, community pastures and recreational areas; building of water storage and drainage of better quality land; plus a whole set of pilot rural development projects on improving fisheries, adult training, and studies into resources and industrial potential.

Greater variety of projects were allowed under the 1965-70 A.R.D.A. agreement. Included in the larger menu were projects for community organization, plus training and rehabilitation of rural adults who decided to try industrial and service jobs in towns and cities. Experience by 1965 had shown that the problems of rural Canada were not going to be solved strictly within a rural environment.

Need for a broader approach was recognized. The direct result was an offer by the federal government to provide extra funding for a broader total program in pilot areas. Manitoba chose as its pilot area the Interlake where both development opportunities and adjustment problems existed. Special efforts were made under A.R.D.A. to study the Interlake region and the needs of its people. A plan for development over several years was drawn up. Out of the plan came the details for the Interlake F.R.E.D. agreement signed in May, 1967.



THE PAST YEAR

Funds available under the A.R.D.A. agreement are being utilized on the rural development area outside the Interlake. This area essentially covers all of the agricultural portion of Manitoba except that portion designated as the F.R.E.D. region. With the signing of the F.R.E.D. agreements in May, 1967, those A.R.D.A. funds financing projects in the Interlake were freed to be invested elsewhere in the province.

For the calendar year 1968, a total of 31 A.R.D.A. projects were at various stages of completion. Apart from two very large drainage projects in the Red River Valley, the greater part of the 1968 A.R.D.A. expenditures were spread over the western half of the province.

Projects initiated during the year include:

- research studies into recreation demands by park visitors, and into eventual development of a master plan for the Whiteshell Provincial Park;
- land clearing assistance for individual farmers in the Westlake region;
- educational and community development grants to the Metis Federation of Manitoba and the Manitoba Indian Brotherhood;
- renovations to the Agricultural Extension Center in Brandon;
- water control and drainage works on the Pine Creek drainage system and Maple Lakes.

To date, under the current A.R.D.A. agreement, some 58 projects have been initiated. This agreement terminates on March 31, 1970. About \$2.2 million dollars of federal funds remain to be committed to projects eligible for cost sharing under the agreement. The province has begun a review of priority projects according to the provincial ability to meet the 50 percent share of the cost that must be raised from general revenues.

General priority areas have been set as follows:

- 1) Water research in the availability, quantity and quality of water in Manitoba.
- 2) Land and water conservation.
- 3) Fisheries and resources education and information.
- 4) Training in co-operatives particularly for Indian and Metis people.
- 5) Community affairs programs with focus on rural communities and trade centers with some prospects for development.



THE COMING YEAR

During the year 1969-70, Manitoba will be deciding in detail which are the priority projects within the terms of the agreement and the extent to which residual funds are to be allocated.

The federal government has announced the formation of a department to deal with regional development in Canada. The legislation brings together under one Cabinet minister, the Honorable Jean Marchand, the following programs:

A.R.D.A.— Agriculture and Rural Development Act

F.R.E.D. — Fund for Rural Economic Development

P.F.R.A. — Prairie Farm Rehabilitation Act

A.D.A. — Area Development Act

A.D.B. — Atlantic Development Board

The pilot Newstart Corporations

The new federal legislation provides the guidelines for Federal participation in regional development. Nature and form of federal and provincial arrangements for future regional development programs will be a matter for future negotiations between the two governments. Such negotiations will get underway in 1969-70.



RESEARCH

BEEF CATTLE RESEARCH

Project involved economic analysis of the cow-calf enterprise from farm business group members' account books. A report on the findings is to be issued.

WATER RESEARCH PROGRAM

Two groundwater research projects initiated under the first A.R.D.A. Agreement have been included and expanded in the 1965-70 Agreement. Purpose is to study groundwater availability, improve methods of tapping groundwater sources and to evaluate the groundwater resources. Up to 1968, engineers and geologists with the Water Control and Conservation Branch completed studies of groundwater basins in the Carberry, Melita, Ethelbert and Minnedosa areas. A final report has been released on the Melita area study. As well several experimental well types in till areas were constructed and tested.

In 1968, field activity in the R.M.'s of Sifton and Cameron were carried out to investigate availability. A total of 42 wells were drilled. Progress reports on the Carberry, Ethelbert and Oak Lake projects were completed.

An extensive detailed survey of flowing wells in the east side of the Interlake region from Koostatak to Gimli was undertaken. Six artesian wells in the Ste. Anne district were drilled and controlled. A reconnaissance survey was undertaken of flowing artesian wells around Lake Dauphin.

Methods of monitoring groundwater supplies were tested.

Information from this project will facilitate efficient utilization of groundwater by agriculture and industry.

WILSON CREEK EXPERIMENTAL WATERSHED

Project was initiated in 1957 as a joint provincial-P.F.R.A. research undertaking. Present work continues under the current A.R.D.A. agreement with staff engineer assistance from P.F.R.A. Purpose is to study the run-off patterns of the Wilson Creek Watershed located on the eastern slope of the Riding Mountain escarpment. Meteorological data is continuously gathered. Erosion and run-off control methods are being tested.

In 1968 work continued on hydro-meteorological data collection and on maintenance of access roads. Basic research on groundwater effects on run-off volumes was undertaken by staff of the University of Manitoba.

A test of the run-off rates and flows along the system was undertaken in August when a beaver dam on the headwaters was blasted. Similar studies will be continued.

Information derived from this study will be valuable to hydrological engineers faced with similar flood control programs elsewhere in Canada.

RECREATION DEMAND TRENDS

Aim of the project is to determine what facilities vacationers demand of the park system, what leisure activities they favor and, ultimately what features the Manitoba parks system should provide.

Last year, the project was initiated with an inventory of all private recreational facilities in Manitoba. A user survey was undertaken on an experimental basis in the Whiteshell Provincial Park. Sports fishing demands and management were studied as well.

WHITESHELL RECREATION STUDY

Purpose is to collate existing physical resource

data and carry out particular studies to develop a master plan for development and management of the Whiteshell Provincial Park.

Research was completed this past summer, including a study of sports fishing potential. A final report is being written.

WILDLIFE MANAGEMENT IN TWO PROVINCIAL PARKS

Aim of the project is to develop wildlife management plans for the Spruce Woods and Turtle Mountain Provincial Parks. Multiple use of the wildlife resource will be investigated as to whether such use can be accommodated within a park environment.

Surveys were completed during 1968 and land use data studied. An initial report is to be issued shortly.

RESEARCH AND REVISION OF INTERLAKE F.R.E.D. AGREEMENT

This is a 100 percent federal grant to support the activities involved in reviewing and revising the current F.R.E.D. Agreement. Funds are being used for local seminars, consultants fees, and data collection. Under the terms of the F.R.E.D. Agreement, a review of programs must be undertaken prior to 1970.



LAND USE AND FARM ADJUSTMENT

LAND DEVELOPMENT PROGRAM — FORAGE SEED PROJECT

Under this project, forage seed is made available at lower cost to farmers wishing to seed down 10, 20, or 30 acres of land not suited to continued cropping. An order allotment for three different forage seed mixtures is made for each agricultural extension area.

This spring, farmers making use of this policy will seed down 29,520 acres.

LAND ACQUISITION FOR ASESSIPPI PARK

Land to be converted from agriculture to recreation use as part of the Aseissippi Provincial Park surrounding the Shellmouth Reservoir was purchased under this project. About 2,200 acres in small parcels was involved.

Most of the land was purchased in 1967 and no acquisitions were finalized in 1968. Some parcels and lots are to be purchased this coming summer.

HAYLAND AND PASTURE DEVELOPMENT — WEST LAKE

Project was initiated in August and will continue over a five year period. Farmers in a designated area, including the communities of Langruth, Glenella, Ste Rose, Ethelbert and Winnipegosis, are eligible for a \$4 per acre incentive grant to knock down and pile bush from good arable land. Contract arrangements are an individual concern. The goal is to clear at least 60,000 acres of land over five years.

During the initial year, a limit of 12,000 acres was set. This limit was met in six weeks with 175 farmers applying to clear 12,015 acres. A total of \$10,484 was paid out in incentive grants by December 31.

DELTA MARSH MULTI-USE DEVELOPMENT

A.R.D.A. funds were utilized to subject the Delta Marsh area to close study by botanists, waterfowl and fisheries biologists, land use specialists and hydrological engineers. Their task was to assess the potential and problems of this area and draw up recommendations for management of the marsh and surrounding land. Construction of the Assiniboine River Diversion outletting in the marsh area underlined the importance of the study. The project was initiated in 1964 with several federal and provincial departments, the University of Manitoba and Ducks Unlimited co-operating.

During 1968, data was being assembled for preparing a report on management of the marsh.

LAND UTILIZATION RESEARCH

Initially the project supported land use data collection, surveys and publications of maps — a task assumed, to a large degree, by the Canada Land Inventory. As a result of the earlier work, land use projects, such as the bush clearing project for the West Lake region and a reclamation research project on the Riding Mountain escarpment have been initiated. Trained soils specialists are required to assist in carrying out these projects according to the land use guidelines established.

One soils specialist at Dauphin has been assigned to advise farmers on management of newly cleared land in the West Lake.

Another stationed at Neepawa in the summer months supervises the reclamation project on a site five miles west of Edan. Steeply eroded slopes are being repaired, reforested or seeded down and observations made on methods being followed. An educational extension program on soil management is carried out with farm managers in the area. Two soils specialists have been seconded to the Canada Land Inventory group to carry out special agriculture land use surveys such as recent ones in the R.M. of Rosedale and along the Turtle Mountain escarpment.



RURAL DEVELOPMENT STAFFS

CO-OPERATIVE TRAINING PROGRAMS

Funds under this project are used to provide provincial government staff advisors to Indian and Metis co-operatives and for special short courses, seminars and conferences for members of these co-operatives.

RURAL LEADERSHIP TRAINING SERVICES

Consultant fees, seminars, workshops and conferences related to local leadership training outside the Interlake are supported under this project.

During 1968, leadership seminars were conducted by Nesbitt Educational Enterprises at Neepawa, Minnedosa, Altona, Starbuck, Shoal Lake, Steinbach and Holland. Special programs were financed for the Manitoba Women's Institute, field workers with the Manitoba Metis Federation and an inter-cultural teen camp at Clear Lake.

ADULT EDUCATION — MANITOBA INDIAN BROTHERHOOD

The project is a 100 percent federal grant under A.R.D.A. to assist in providing consultants, specialists, other staff and materials for an adult education program carried out by the Manitoba Indian Brotherhood. Program content involves leadership development aimed at self government, economic studies, and housing studies. This is a new project.

ADULT EDUCATION OFFICER AND ENABLING FUND

This project fund is used for a variety of activities aimed at improving rural and remote community leadership potential and income improvement abilities.

During 1968, a seminar of agriculture leaders was held in Brandon to discuss goals and objectives of the industry with Agriculture Task Force members.

A grant of \$20,000 was provided the Manitoba Metis Federation to be used in establishing local community organizations and to develop education programs for Metis communities.

A forestry skills project currently underway is being financed by the fund. Indigenous people with proven skills in forestry work are being trained to work with their fellows to improve harvesting techniques.

RURAL DEVELOPMENT CO-ORDINATION SERVICES

Aim of this project is to provide staff to co-ordinate and plan local area and regional development programs.

Salaries and expenses of the extension co-ordinator for western Manitoba are covered by this project along with salaries and expenses of the Turtle Mountain development district co-ordinator.

LAND USE CO-ORDINATOR

Salary and expenses of the provincial land use co-ordinator who is responsible for co-ordinating staff carrying out land utilization studies.

FISHERIES EXTENSION PROGRAM

Salaries, expenses and costs of communications material of those conservation education officers in the Department of Mines and Natural Resources involved in fisheries education projects supported under A.R.D.A. In 1968, four indigenous fishermen were trained in efficient fishing techniques and located on the northern lakes as instructors.

A.R.D.A. CO-ORDINATOR

Salary and expenses of the Manitoba A.R.D.A. Co-ordinator who is responsible for overseeing the implementation of the A.R.D.A. program by provincial departments and agencies.



RURAL DEVELOPMENT AREAS

BLUEBERRY RESEARCH PROJECT

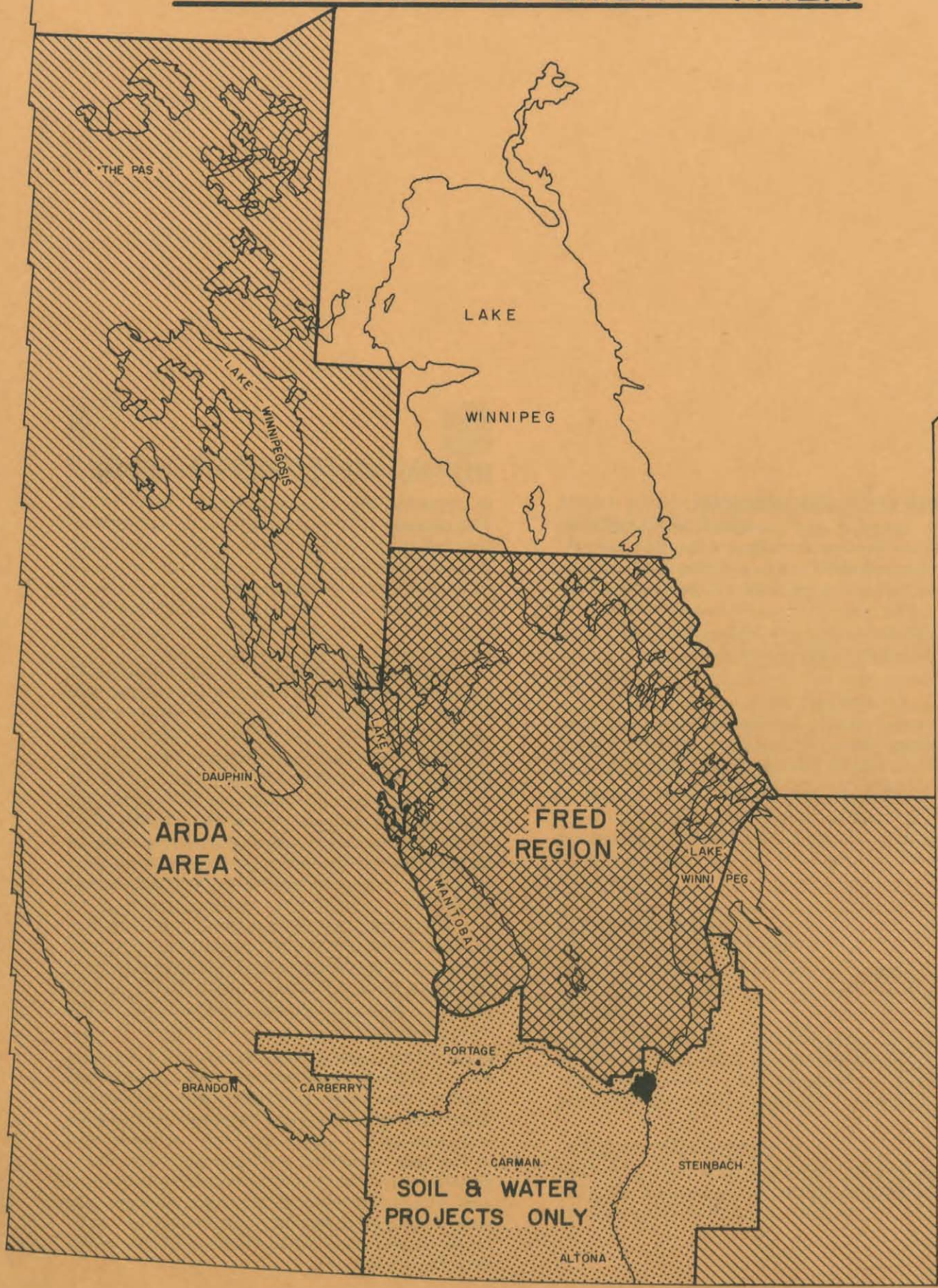
This summer will be the final season for this five-year investigation into the potential for developing a stable native blueberry production, especially in eastern Manitoba. Department of Agriculture and Department of Mines and Natural Resources specialists have co-ordinated the management and research program with assistance by the University of Manitoba. Observation plots were established near Whitemouth Lake and in the Aggasiz and Belair Forest Reserves. Several management techniques have been tried. Evidence indicates that stabilized production is not economically feasible.

SPRUCE WOODS PROVINCIAL PARK

This project is the direct response to local initiative and organization aimed at converting land bordering and within the Spruce Woods Forest Reserve into a much-needed park to serve residents of and visitors to south central Manitoba. Establishment of the total 62,360-acre provincial park is an A.R.D.A. project. Included in the \$1.5 million project is purchase of some 10,500 acres of agricultural lands in the Assiniboine River Valley, development of a beach site and facilities, roads and trails, picnic sites, camping grounds and public buildings. Work was begun in 1967.

In 1968, land acquisition costs were \$69,318 and to date all of the first and second priority private land required has been purchased. Muche-Manitou Lake camp-ground in the core area of the park was completed. A sewer and water system started in 1967 was completed and hook-ups made. Completed also was the maintenance area including the park office, residence for the park manager and maintenance yard. Beaches were being laid on the newly shaped lake. Detail mapping of the entire park was started.

RURAL DEVELOPEMENT AREA



Much of the landscaping and brushing work and production of timber and concrete materials was done by members of a rehabilitation camp as part of the prisoner rehabilitation program of the province.

CAPITAL INFRASTRUCTURE — PUBLIC RECREATION AREAS

Object of this project is to improve the quality and variety of recreational services to expand the tourist industry in Manitoba. As well, the operations will involve hiring of local people wherever improvements are being made. The project involves \$274,050 in investment shared equally by the governments of Manitoba and Canada and terminates in March, 1969.

During 1968, the following works were included:

EASTERN REGION:

- Repairing shoreline of Winnipeg River along public reserves and cottage lots.
- Completion of museum and some landscaping at the Rennie Goose Sanctuary.
- Surfacing roads and parking lots at Falcon Lake.
- Construction of a causeway and land clearing at the Pointe du Bois marine park.
- Construction of dwelling for golf pro at Falcon Lake golf course.
- Alteration of Nutimik Lake kitchen.

WESTERN REGION:

- Preparatory clean-up and initial shoreline development at Assinippi Provincial Park.
- Improvements to Kirkella information plaza.
- Landscaping and reconstruction of roads around day use in Turtle Mountain Provincial Park.
- Purchase, relocation and remodelling of park officer's residence — Turtle Mountain.

- Clean-up, development of water and sewage system, construction of beach pavilion and picnic tables at Oak Lake Recreational area.

NORTHERN REGION:

- At Wellman Lake in the Duck Mountain Provincial Park — electrical hook-up at camp ground, conversion of site to a day-use area, development of a running water system, wash-room construction and preliminary development of another major camp ground.
- At Manipogo recreational area on Lake Dauphin — development of road and parking system and main entrance, shoreline improvements, construction of a beach pavilion.
- At Rainbow Beach recreational area on Lake Dauphin — redevelopment of main entrance, improvements to parking lots, sanding beach site, general landscaping.
- At Clearwater Provincial Park —
 - construction of fire ranger's cabin, renovations to visitors center and general landscaping at Prospector Point.
 - shoreline improvement and landscaping at Sunset Beach.
 - construction of washroom facilities and landscaping at Campers' Cove and at Pioneer Beach.
 - construction in the park of floating docks and camping shelter.
 - production of rough timber for park projects.

AGRICULTURAL EXTENSION CENTER

Purpose of this 2½ year project is to extensively renovate the Agricultural Extension Center in Brandon to provide modern office, classroom and residential facilities for rural people taking part in

the regularly scheduled training programs and courses. Total financial commitment under A.R.D.A. is \$524,000.

Work on the Center was started in the winter of 1968 with renovations to staff offices and two classrooms. The current contract involves construction of a new wing to the main building, conversion of the former dining room and kitchen facilities to offices and storage area and renovation to other offices and the recreation room. The final phase of the project is construction of modern short-term residential facilities for meeting and conference delegates.



PUBLIC INFORMATION SERVICE

FISHERIES INFORMATION — EXTENSION PROGRAM

Under this project, the Conservation Education Branch of the Department of Mines and Natural Resources produces a weekly one-half hour radio program directed at commercial fishermen on Manitoba Lakes. The broadcast, carried by radio stations at Flin Flon, Thompson and Dauphin, features market information, interviews and reports on technical developments and seasonal regulations. It is carried over four stations.

A.R.D.A. INFORMATION PROJECT

To provide for preparation and distribution of information on the A.R.D.A. program in Manitoba. Project funds are used for term staff assistance, printing and tours.



SOIL AND WATER CONSERVATION

UPPER HESPELER SYSTEM

This is the largest and most costly drainage control project to be undertaken under the Manitoba A.R.D.A. program. Improvements to three provincial waterways is involved — the Upper Hespeler channel, Dead Horse Creek channels and the Rosenheim Coulee. With completion of the \$3.38 million project in 1971, about 340 square miles of high value farm land below the Pembina Escarpment will be protected. The project was begun in 1967.

This past year, excessive summer rains prevented completion of contracts. A contract for excavation of 358,000 cubic yards of earth over a 11.6 mile stretch of the Upper Hespeler Floodway was 50 percent completed. Excavation of 470,000 cubic yards over a 3.5 mile stretch of the Dead Horse Creek channel was 35 percent completed. About 40 percent completion was attained on a 428,000 cubic yard contract over 5.2 miles of the Rosenheim Coulee. Tenders for construction of four treated timber bridges were let.

TOBACCO CREEK FLOODWAY

An estimated 255 square miles of high value farm land in the Tobacco Creek Marsh area, south of Carmen will be protected from periodic flooding once this project is completed in 1970. Total project cost is \$1.3 million. Work was begun in 1967. A total of 12.5 miles of floodway and 7.5 miles of artificial drainage channel will be excavated.

This past summer, an earthwork contract totalling 812,000 cubic yards of excavation over 3.7 miles was 50 percent completed. Tenders for construction of one treated timber bridge were let.

MAPLE LAKES FLOOD CONTROL

Purpose of this project is to control water levels of the Maple Lakes south-east of Pipestone and there-

by provide flood protection for 6,000 acres of grassland. A drainage outlet channel from the main lake to the Souris River in the major works. A regulation gate at the upper end will permit stabilization of the lake levels.

During the summer of 1968, excavation of the 11.5 mile outlet channel was 90 percent completed. The project is to be completed in the 1969 season.

PINE CREEK DRAINAGE SYSTEM

Project involves reconstruction of the Pine Creek drainage system in the Rural Municipalities of Westbourne, North Cypress and North Norfolk and diversion of Squirrel Creek in the Rural Municipality of North Norfolk into Pine Creek. The estimated \$1,100,000 project will be phased over five years. Benefits include improved drainage and flood control for about 235 square miles of very good arable farm land and 100 square miles of less productive farm land.

In 1968, work was initiated with 4.4 miles of reconstruction of Pine Creek channel completed under contract and a further one-half mile completed on a day labor basis. Two treated timber bridges were reconstructed and a concrete gradient control structure completed except for earth fill. On the Squirrel Creek diversion channel, 1½ miles was reconstructed on a day labor basis.

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THE CANADA LAND INVENTORY

The broad objective of the Canada Land Inventory is to classify all land in the settled portion of Manitoba according to its capability, and to obtain an estimate of the extent and location of each land class. Besides mapping their present use, lands are being classified according to physical capability for agriculture, forestry, recreation and wildlife.

The Canada Land Inventory is a nation-wide project with the Government of Canada co-ordinating the inventory project, preparing publications of the inventory information, and providing the necessary funds required by the province to conduct the inventory. The provinces carry out the respective studies and are responsible for the preparation of the inventory information in map and report form.

To date field studies have been completed as follows:

Agriculture	— 36,000,000 acres (62% of total area)
Forestry	— 24,850,000 acres (44% of total area)
Recreation	— 42,000,000 acres (74% of total area)
Wildlife	— 27,700,000 acres (49% of total area)
Sport Fish	— 40,000,000 acres (70% of total area)
Present Land Use	— 22,000,000 acres (40% of designated area)

FEASIBILITY STUDY — RESOURCE DATA SYSTEM

This is a research project of basic, practical value to the entire Canada Land Inventory project. Aim of the study is to determine what land resource data is of practical value to provincial agencies and other organizations and how this data can be handled and catalogued so it can be quickly and meaningfully recovered when needed.

A team of three specialists have been assigned to this project and are currently concentrating their efforts on two sample townships. A preliminary report has been released and work is underway on means of computerizing the data.

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SUMMARY A.R.D.A. OPERATIONS

1962 — DECEMBER 31, 1968

	Approved Shareable Cost	Federal Share	Total Cost to December 31, 1968
1962-65 Agreement			
Alternative Uses of Land	\$ 2,199,350	\$ 1,060,008	\$ 1,759,700
Soil and Water Conservation	4,532,474	2,266,237	3,255,350
Rural Development Areas	354,470	177,235	236,578
General Research	287,100	143,550	221,125
Total	\$ 7,373,394	\$ 3,647,030	\$ 5,472,753(1)
1965-70 Agreement			
Rural Development Staff and Training Services	\$ 588,131	\$ 294,065	\$ 398,948
Public Information Services	35,000	17,500	17,174
Special Rural Development Areas	913,500	456,750	667,280
Rural Development Areas	10,217,038	5,119,799	3,777,800
Total	\$11,753,669	\$ 5,888,114	\$ 4,861,202(1)
Special Agreements			
Special COMEF Agreement	\$ 64,500	\$ 29,500	\$ 64,500
Special Agreement — Interlake and Land Inventory Program (2)	712,830	712,830	589,129
Canada Land Inventory (2)	1,600,000	1,600,000	1,009,462
Total for all Agreements	\$21,504,393	\$11,877,474	\$11,997,046

(1) The entire federal contribution is not received until work has been completed on a project. Work on several projects is still continuing.

(2) Projects under these agreements are supported by 100 per cent federal funds.

INDUSTRY CANADA/INDUSTRIE CANADA



53995

HON. JEAN MARCHAND, MINISTER, DEPARTMENT OF REGIONAL ECONOMIC EXPANSION
HON. DOUGLAS WATT, MINISTER, MANITOBA DEPARTMENT OF AGRICULTURE