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WHY NOT RETURN IT, YOU WILL THEN KNOW WHERE TO BORROW IT AGAIN.

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LAND USE AND SOCIO-ECONOMIC STUDY

OF THE

MONTANA INDIAN RESERVE NO.139

PREPARED FOR THE DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

BY STANLEY ASSOCIATES ENGINEERING LTD 1969 8-30 E78 A34 L343 C.1 Stanley Associates Engineering Ltd.

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May 23, 1969 File: 791-4-a

Mr. T. Turner, District Supervisor Edmonton-Hobbema District Dept. of Indian Affairs & Northern Development,

and

Band Members & Council Montana Indian Reserve

Gentlemen:

Re: Socio-Economic and Land-Use Study

We are pleased to present herewith the findings of our recent studies relative to the Montana Indian Reserve. We trust that the high level of cooperation which we have received throughout the duration of our studies is reflected in the pertinance and usefulness of our Report.

We would be pleased to provide any continuing assistance that you might deem necessary in order to arrive at a comprehensive and viable development program.

Respectfully submitted,

Stanley Associates Engineering Ltd.

J. M. Lainsbury, P. Eng., MTPIC, Study Director.

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F.J. Dusel, P. Eng., Vice-President

SOCIO-ECONOMIC & LAND USE STUDY

MONTANA INDIAN RESERVE NO. 139

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INTRODUCTION

This report has been produced in accordance with a contract dated November 5, 1968, between Stanley Associates Engineering Ltd. and the Edmonton-Hobbema District, Indian Affairs Branch.

The socio-economic and land use studies authorized by the above contract were designed to evaluate the resource potential, both physical and human, of the Hobbema Reserves, and to recommend programs of resource development for the benefit of the Indian people concerned, having regard for the desires and abilities of these Indian people.

The reader should refer to the Four Band Report for discussion involving development opportunities and recommendations relevant to the Hobbema group of Reserves as a whole.

Throughout the duration of this study, the researchers have received an extremely high level of co-operation from the Band Councils, Councils' Steering Committee, the Indian Affairs Branch and the Band members as a whole. It is to be hoped that this excellent relationship is reflected in the validity and usefulness of the comments that follow.

SECTION 1 - PHYSICAL DESCRIPTION OF RESERVE

LOCATION

The Montana Indian Reserve No. 139 is one of a group of four Reserves clustered about the community of Hobbema, Alberta. The Reserve is located east of Highway No. 2A approximately 55 miles south of Edmonton. The location of the Reserve relative to the surrounding region is illustrated by Map No. 1.

HISTORICAL BACKGROUND

The Montana Indian Reserve No. 139 was established in 1909 subsequent to the surrender of the Bobtail Indian Reserve in the Hobbema Indian Agency.

The Bobtail Reserve was established in 1889 for the Bobtail Band of Indians who had joined Treaty No. 6 on September 25, 1877. The Bobtail Band decreased in number in 1885, partially as a result of the scattering of Indians which resulted from the Riel Rebellion. Some of the remaining members joined the Samson and Ermineskin Bands and the Bobtail Band as such ceased to exist at this time. The remaining members formed the nucleus of the Montana Band.

The Bobtail Indian Reserve was surrendered in 1909 by those former members of the Bobtail Band who had been admitted to the Samson and Ermineskin Bands, under conditions that:

- (1.) A large area to be sold and the proceeds to be credited pro rata to the funds of the Ermineskin and Samson Bands, based on the population coming from the disbanded Bobtail Band who became members of these bands.
- (2.) Approximately ten square miles to be set aside for the MontanaBand and two smaller areas to be added to the Samson Reserve

Map No. 2 indicates the original boundaries of the Bobtail Reserve and the present boundaries of the Montana Reserve. Map No. 2 also indicates those areas of the original Bobtail Reserve which were deeded to the Samson Reserve and shows two areas within the existing Montana Reserve which have been surrendered to the Crown for lease purposes, revenue from which is returned to the Band. These two latter properties comprise a total of some 625 acres and were surrendered in April of 1950. The present net area of the Montana Reserve is approximately 6,300 acres. The mineral rights to the Montana Reserve and the Montana Band's interest in the mineral rights of the Pigeon Lake Reserve were surrendered to the Crown in May of 1946, on the condition that these rights be leased by the Crown in the interest of the Band members.(Refer to Four Band Report for discussion of Montana Band's interest in the Pigeon Lake Reserve.)

All land on the Montana Reserve is owned by the Band. Some individuals have been issued the "right of occupancy" to a particular quarter section but this is not equivalent to ownership or to the status implied by a Certificate of Possession as defined under the Indian Act. If the Indian farms a quarter section himself to which he has right of occupancy, he may retain all revenue from the farming operation. Should a similar section be leased, then the lease revenue is paid into Band funds.

PHYSICAL ENVIRONMENT

The Montana Reserve is generally flat in the western portion of the Reserve with rolling hills in the eastern portion, with elevations ranging between 2,500 and 2,750. The north boundary of the Reserve is marked by the valley of the Battle River. Some pockets of muskeg are found in depressed areas in the southeast corner of the Reserve and in a line running approximately northwest from this corner.

Bedrock in the Montana Reserve is covered by a surficial layer of lake deposits of Pleistocene age and Recent wind deposits. Sand dunes occur in Section 27 and gravel occurs in Section 29. The pre-glacial Red Deer River Valley underlies part of the Reserve. Water from the gravels of the old buried valley will probably be highly mineralized and hard but supplies up to 1,000,000 gallons per day are possible. Depth to bedrock in this valley above which the gravel may be deposited should be 100 feet or less. Surface water is available on the Reserve from the Battle River and from small lakes

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in the southeast and southwest areas of the Reserve. Map No. 3 outlines the geology of the Reserve area.

The growing season extends from approximately April 25 to October 6. (Refer to Map No. 4). Average annual precipitation in the area of the Montana Reserve is 18 inches, 12 inches of which falls between May and September. (Refer to Map No. 5). The mean "frost free" period in this area is 90 days.

LOCAL AND REGIONAL SERVICES

Facilities at the community of Hobbema provide day to day low order services for the residents of the Montana Reserve. Services available at Hobbema include a service station, 3 general stores, 2 taxi services, pool hall, cafe and food store, and a confectionary.

Other facilities available at Hobbema include: (a) Catholic Elementary School - grades 1 to 9 inclusive, 32 teachers. (b) Preventative Health Services Clinic with a staff of 6. (c) Band offices for each of the Hobbema Bands. (d) A two-sheet artificial ice curling rink.

Higher order retail requirements are obtained at Wetaskiwin, 15 miles to the north; Ponoka, 6 miles to the south; and at Camrose.

The C. P. R. line between Edmonton and Calgary passes through Hobbema and provides service to the four grain elevators at that centre. No rail passenger service is available from Hobbema. The community is serviced by Greyhound Bus Lines, again running between Calgary and Edmonton, with four runs daily to the north and four runs to the south.

Six trucking companies provide service to Hobbema with rates running in the order of \$1.50 per hundred pounds from Edmonton to Hobbema. In addition, there are some 10 or 12 distributors who truck supplies directly to retail outlets in the Hobbema community.

Edmonton television channels 3 and 5 are received on the Reserve, as are radio stations from Edmonton, Camrose and Red Deer. C.P. Telegraph facilities are available at the station. Underground telephone cables

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have been installed throughout the Reserve, but have not been hooked up. The Edmonton Journal, Wetaskiwin Times, Albertan and Bear Hills Native Voice are the newspapers available on the Reserve.

HOUSING

The survey of housing conditions on the Montana Reserve was made in December 1968 and completed in January 1969. There appears to be much moving of families between houses on the Reserve and therefore it must be realized that the occupancy rates mentioned below are valid only at the time of the survey and have possibly changed to some degree during the subsequent period of time.

Twenty-one of the twenty-four houses on the Reserve were occupied at the time of the survey, thus giving a vacancy of 12.5 per cent. Nine of the homes were found to be in good conditions, thirteen in fair condition and two in poor condition. Only five houses had a floor area greater than 800 sq.ft., fifteen houses had a floor area of between 400 and 800 sq.ft., and four houses had a floor area of less than 400 square feet.

There was an average of seven people per occupied house on the Montana Reserve, in homes ranging from 2 to 5 rooms. There were seven homes with five rooms, ten with four rooms, five with three rooms, and two with two rooms. The crowding index, defined as the number of people per habitable room, ranged from 0.6 to 4.0 with the average being 1.6. Seven houses (33 per cent of the occupied houses) had a crowding index of 2.0 or more. A crowding index of 1 is considered a desirable maximum.

Appendix A contains the criteria used for the housing condition survey. The location of houses on the Reserve and their condition of occupancy is shown on Map No. 7.

ROADS

An adequate system of roads is now available on the Reserve. All of the main roads are gravelled. A bridge across the Battle River was completed in January which will allow Band members to travel through the

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Samson Reserve at all times of the year. Map No. 8 shows the roads on the Reserve.

GOVERNMENT

Two documents have a major effect on the Montana Band. The first of these is Treaty No. 6, signed by Chief Bobtail and two of his Councillors, Sometimes Glad and Passing Sound, and by Commissioner Laird at the Blackfoot Crossing of the Bow River on the 25th day of September, 1877.

Treaty No. 6 was proposed because:

"...it is the desire of Her Majesty to open up for settlement...a track of country...and to obtain the consent thereto of her Indian subjects inhabiting the said tract, and to make a treaty and arrange with them, so that there may be peace and goodwill between them and Her Majesty, and that they may know and be assured of what allowance they are to count upon and receive from Her Majesty's bounty and benevolence;"

The following quotations from Treaty No. 6 are still significant

today:

"... the... Reserves of land or any interest therein may be sold or otherwise disposed by Her Majesty's government for the use and benefit of the said Indians entitled thereto, with their consent first had and obtained; and with a view to show the satisfaction of Her Majesty with the behaviour and good conduct of her Indians, She hereby, through her Commissioners, make them a present of \$12.00 for each man, woman and child belonging to the Bands here represented and extinguishment of all claims heretofor preferred;"

"... Her Majesty agrees to maintain schools for instruction in such Reserves hereby made... whenever the Indians of the Reserve shall desire it;"

"... the said Indians, shall have right to pursue their avocations of hunting and fishing throughout the tract surrendered as hereinbefore described, subject to such regulations as may from time to time be made by her Government of her Dominion of Canada, and saving and excepting such tracts as may from time to time be required or taken up for settlement, mining, lumbering, or other purposes..." "... such sections of the Reserves above indicated and as may at any time be required for Public Works and building of what nature soever, may be appropriated for that purpose..."

"... Her Majesty's Commissioners shall, ... pay to each Indian person the sum of five dollars per head yearly;"

"... in the event hereafter of the Indians comprised within this treaty being overtaken by any pestilence, or by a general famine, the Queen, on being satisfied and certified thereof by her Indian Agent or Agents, will grant to the Indians assistance of such character and to such extent as her Chief Superintendent of Indian Affairs shall deem necessary and sufficient to relieve the Indians from the calamity that shall have befallen them;"

"...a medicine chest shall be kept at the house of each Indian Agent for the use and benefit of the Indians, at the discretion of such agent;"

The Indian Act is a special act affecting only those descendents of Indians who signed treaties, such as Treaty No. 6 mentioned above. The nature of the Indian Act is illustrated by the following quotations taken from the office consolidation of the Indian Act R.S. C. 1952 C 149 as ammended.

> 28. (1) Subject to subsection (2), a deed, lease, contract, instrument, document of agreement of any kind, whether written or oral, by which a band or a member of a band purports to permit a person other than a member of that band to occupy or use a reserve or to reside or otherwise exercise any rights on a reserve is void.

> (2) The Minister may by permit in writing authorize any person for a period not exceeding one year, or with the consent of the council of the band for any longer period, to occupy or use a reserve or to reside or otherwise exercise rights on a reserve.

60. (1) The Governor in Council may at the request of a band grant to the band the right to exercise such control and management over lands in the reserve occupied by that band as the Governor in Council considers desirable. 60.(2) The Governor in Council may at any time withdraw from a band a right conferred upon the band under subsection (1).

29 Reserve lands are not subject to seizure under legal process.

32.(1) A transaction of any kind whereby a band or member thereof purports to sell, barter, exchange, give or otherwise dispose of cattle or other animals, grain or hay, whether wild or cultivated, or root crops or plants or their products from a reserve in Manitoba, Saskatchewan or Alberta, to a person other than a member of that band, is void unless the Superintendent approves the transaction in writing.

(2) The Minister may at any time by order exempt a band and the members thereof or any member thereof from the operation of this section, and may revoke any such order. (Note: this section has been invoked on the Montana Reserve).

68.(1) The Governor in Council may be order permit a band to control, manage and expend in whole or in part its revenue moneys and may ammend or revoke any such order.

(2) The Governor in Council may make regulations to give effect to subsection (1) and may declare therein the extent to which this act and the Financial Administration Act shall not apply to a band to which an order made under subsection (1) applies.

The above sections of the Indian Act are significant in several respects. The sections indicate the degree of paternalism to which the Indian is subjected by the Federal Government, which has tried to protect them from exploitation by whites, but has also tended to keep the Indian dependent upon the Government and isolated from Canadian society. It must be pointed out that the Indian Act does allow some degree of self-determination on the part of the Indians as evidenced by Section 68, and it is important to note that the Montana Band does in fact control its own revenues and expenditures in accordance with this section.

One further section of this Act is pertinent to the discussion which follows in Section 6 of this report.

4. (2) The Governor in Council may be proclamation declare that this Act or any portion thereof, except sections 37 to 41 (dealing with surrender of reserve properties), shall not apply to

a. Any Indians or any group or band of Indians

 Any reserve or any surrendered lands or any part thereof,

and may by proclamation revoke any such declaration.

The Montana Band is governed by a Council composed of one chief and two Councillors who are elected for a two year term by the members of the Montana Band in accordance with Sections 73 to 86 inclusive of the Indian Act. This Council, presently composed of Chief Sam Currie and Councillors Gordon Currie and Marvin Buffalo, also represent the Montana Band's interest in the Pigeon Lake Reserve, through their membership on the Four Band Council.

It might be noted at this point that the Four Band Council is composed of the entire Councils of each of the Montana, Samson, Ermineskin and Louis Bull Bands, and acts with respect to matters concerning the Pigeon Lake Reserve which is owned jointly by each of the Four Bands, and with respect to other matters of common interest to all of the Bands.

To this point in time, the Indian has been regarded as the responsibility of the Federal Government. It is not unlikely that this situation will be modified in the near future since the Alberta Government is presently reviewing the possibility of taking over Indian welfare services from the Federal Government. Should this happen it would seem likely that other services to Indian people might also be integrated with existing provincial services. Such a situation would appear desirable for two reasons; it would tend to place the services closer to the source, and it would tend to place the Indian in a more reasonable context with respect to the regional and provincial economy. The current apparent dissociation of the Montana Reserve with respect to the surrounding region may be evidenced by the fact that the Reserve has not elected to become a part of the surrounding Regional Planning District, nor is the Reserve considered part of the adjacent county.

or

SECTION 2 SOCIAL DESCRIPTION OF THE RESERVE

POPULATION

The population of the Montana Reserve as of December 31,1967 was 229, of whom 31 were males between the ages of 20 and 65. Figure 1 shows the distribution of the population by age and sex in comparison with a similar distribution for the Province of Alberta. It will be noted that the Reserve population is much higher than the provincial average in the lower age groups and somewhat lower in the working age groups. These points have two major implications; firstly the available labour force on the Reserve is low in proportion to the total population and therefore to the requirement for services, and, secondly the high percentage of young people indicates an unusually heavy demand for educational services and facilities. A further implication which must be considered in future planning involves the relatively high proportion of young people who will be entering the labour market within the next decade.

The population density on the Montana Reserve is 23.1 persons per square mile. In the surrounding agricultural area, the population density is in the order of one family per square mile.

Fifty-six per cent of the residents of the Montana Reserve belong to the Roman Catholic Church; 27 per cent are Baptist and 14 per cent belong to the United Church.

In 1959, twelve per cent of the Band population lived off the Reserve, by 1967 this figure had increased to 27 per cent.

The population on the Reserve has been increasing rapidly as indicated by Figure 2. Since 1959 there has been an increase in the order of 6 per cent per year in the population. Based on a 5 per cent increase per annum by 1985 the population of the Montana Reserve should be approximately 475 people. This population would be equivalent to a density of 48 persons per square mile throughout the Montana Reserve, or 13.3 acres per capita.

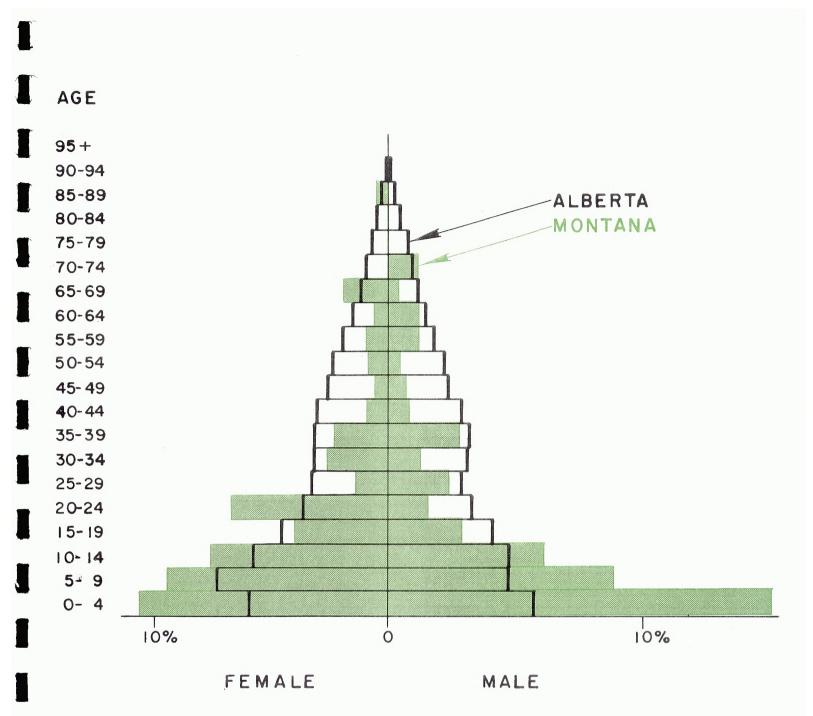
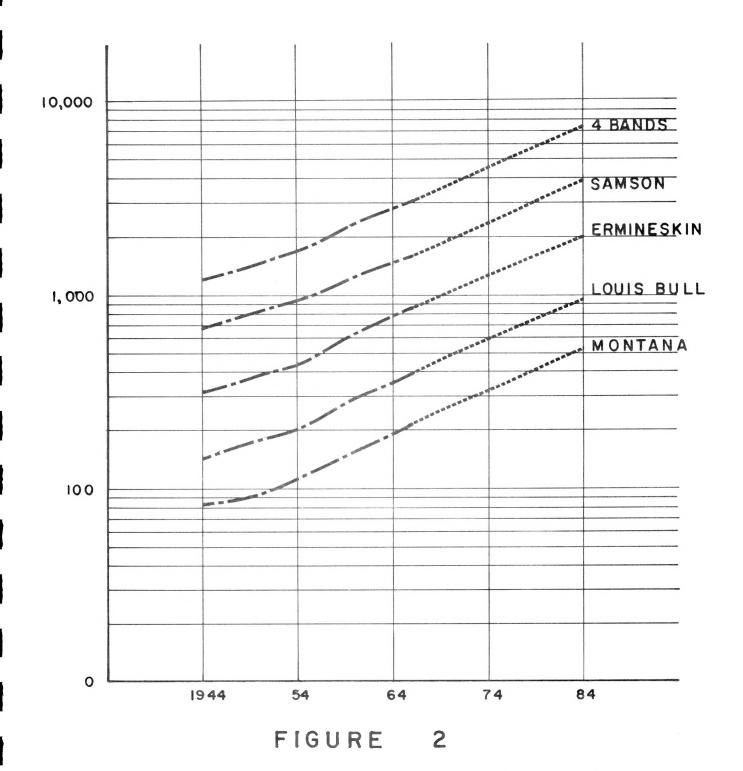


FIGURE |

AGE-SEX DISTRIBUTION

MONTANA INDIAN RESERVE # 139



POPULATION PROJECTIONS FOR HOBBEMA RESERVES BASED ON 5 % ANNUAL INCREASES

SOURCE OF HISTORICAL DATA - D.B.S.

EDUCATION

General Introduction

The Montana Band appears to have taken more advantage of the policy of integrated education than any other Band of the Hobbema group during the last ten years. The casual observer might therefore assume that all is well and education is achieving its progressive aims. To the contrary, however, it is felt that this Band is experiencing some severe frustrations and problems associated with integrated education. The Band members may or may not be aware of some of the problems that their children are encountering. At the same time it must be recognized that integrated education is probably the best answer to some of these problems.

Most of the children on the Montana Reserve attend school off the Reserve. Probably the proximity to Ponoka, lack of educational facilities on the Reserve, and religious influences are the main reasons for this. It may also be noted that a large number of the parents feel that their children get a much better education at Ponoka than they would on the Reserve.

The following is a brief analysis of the pre-school, in-school and post-school areas of education on the Reserve, intended to point out some of the strengths and weaknesses in each area.

Pre-school

This Reserve has been fortunate in the past to have a pre-school program in operation which has been staffed by competent teachers. Attendance in this program has been excellent. The school is presently closed for lack of a teacher.

The school, one of the former one-room schools operated on the Reserve, is located near the geographical centre of the Montana Reserve. Teachers have not always been readily available but the Indian Affairs Branch has attempted to staff this little school with well-qualified personnel. Facilities in the school are quite appropriate and adequate. There appears to be no lack of equipment. The basic program is meant to provide an opportunity for preschoolers to learn English, to adjust to some routines and to become familiar with concepts of the "world outside". No attempt has been made to accelerate the Grade 1 program by an early introduction.

While this program gives the impression of being helpful and successful, it lacks one essential ingredient. There appears to be little or no involvement of people on the Reserve in planning the program, hiring a teacher, arranging for materials and taking total responsibility for transportation. For this reason there appears to be a lack of identity with the program and its goals as "our program", "our school", "our teacher". The teacher is gone, but even the Chief does not really know why she is gone. The general attitude is that the program is the responsibility of the Indian Affairs Branch.

The recommendation for this area of education is obvious. This is one area where the people could be immediately and directly involved with maximum participation, because the school is on the Reserve, if fully equipped and could function as an integral part of the reserve society.

In-school Program

As has been noted earlier, most of the students from the Montana Reserve attend the integrated schools at Ponoka, while the balance attend schools at Edmonton and other centres. Most, but not all of the parents agree with this system. The purpose of this section is to point out some of the advantages and disadvantages of this sytem so that Band members may know what is happening to their children. The section is based on observations and discussions with people on the Reserve, with teachers, with principals, and with children.

Primary and Elementary (Grades 1 to 6)

After children in the Province of Alberta have reached the age of seven, they are required by law to attend school. Most of the children on the Montana Reserve are bussed each morning to schools in Ponoka. These are white schools and they are oriented to teach white children, but they receive the Indian children gladly and try to do the best they can for them. White parents expect the schools to use the curriculum prescribed by the Department of Education. Some things in this curriculum are optional but most are not.

What happens to the Indian children in these schools?

- (1) Many parents on the Reserve do not know what happens to their children in school. They do not know what is being taught, nor how it is being taught.
- (2) Children who have taken the pre-school program on the Reserve seem to have less difficulty when they go to Ponoka for the first time.
- (3) Many children have a lot of difficulty with language. They do not know the meaning of certain words which other students and teachers use. They don't have as much difficulty with language if they can speak English when they first come to school.
- (4) It seems that the smaller children fit into the school system quite well and are quite happy but many of the older children seem to be less happy in school. This seems to occur because they do less well in school as they go through the grades and many drop out as soon as they are sixteen.

Why does this happen?

It may be noted that children think well of themselves when they first go to school outside the Reserve, but they often fail to keep up with others in school. As soon as they start to fail, they begin to think they are not as good as other children. About half of the students fail at least once before they reach Grade 6. This may happen for many reasons. Some of these reasons are as follows:

(1) Not many allowances are made in the white schools to change the program for Indian children. The same readers and the same ideas as taught in all white schools are taught by white teachers who know their own society but often know little about Indian culture. Many of the ideas are foreign to the Indian children, although it is desirable that they should learn about them.

- (2) Some of the teachers understand the problems of Indian children and do their best to help them, but teachers cannot make exceptions when marking a class's examination papers.
- (3) Some children from the Reserve often miss school or come late and because there are at present no telephones, the school does not know why the children are absent. Buses from the Reserve have been late more than 50 times in the past school year.
- Many children notice more and more as they go through the (4)grades that there is a real difference between the goals of the school and their homes on the Reserve. Hence, many of them become very frustrated and give up. For example, in school they are taught to do their homework but when they come home, there is no place to do it and little encouragement from parents; in school they are taught many things about other people and other countries, but at home they get very little opportunity to read or to travel; in school they are taught to work with arithmetic, at home they find little use for this because there are not many opportunities to buy, compare and work out mathematical problems; in school they are taught that hard work is a good thing but at home they often find that parents and older brothers and sisters have a very hard time finding jobs and holding them, so they can't work, yet they don't have to starve. Children therefore cannot identify with the goals of the school and have difficulty identifying with the goals of the Reserve. They begin to think less and less of themselves and many of them give up.

How can this situation be changed in the primary and elementary grades?

(1) By inviting parents to school more often and providing the necessary transportation, they will be able to see what is going on in school. Every parent should have a chance to see the teachers in the school at least twice a year. Interpreters should be provided if necessary. In other places in Canada where people do not speak English, this is done and there is no shame attached to it.

- (2) All children who start school outside the Reserve should have a chance to go to the pre-school on the Reserve regularly for at least two years before they go to Ponoka.
- (3) Children should have a good place to study and read on the Reserve. A good library with many books, records, tapes and even television sets should be provided on the Reserve. This has proven to be very helpful in some communities in the North.
- (4) More allowances should be made for Indian children in the school program at Ponoka. Parents should be helped to understand that this would be an attempt to help their children and not discriminate against them.
- (5) Children must be successful most of the time in school in order to think well of themselves and be happy.
- (6) Every effort must be made to have school buses arrive at the school on time.
- (7) Teachers should be invited by the Reserve parents to visit their homes, not only when there are problems but at other times as well.
- (8) Teachers should become familiar with the Reserve and get to know the ways of life of the children they teach in school. They should be sympathetic to the problems which Indian children face.
- (9) Books and stories of Indian history should be taught to both white and Indian children so that both may understand better how the other feels about their culture. Questions raised by white and Indian children about their cultural background should be discussed freely by children in classes with the guidance counselor.

(10) There should be a permanent guidance counselor at Ponoka for primary and elementary children.

Junior High and High School (Grade 7 to 12)

Since many of the children who begin school in Grade 1 do not finish junior high school or high school, it seems apparent that problems exist in this area. In fact, most of the problems begin at the primary and elementary school level, and the problems faced by high school students are for the most part the same as those faced by the elementary school children. Some of the additional factors which influence students at the high school level are as follows:

- (1) Students at the junior high school level begin to look at job opportunities. Boys in particular, begin to wonder what they will do when they grow up. Many of the job opportunities which teachers describe in school are not known on the Reserve and therefore carry little value for some Indian boys. Girls have a somewhat different attitude towards school since they may learn to cook and sew at school and expect to do this when they get home on the Reserve.
- (2) The programs which might assist boys in adjustment are not offered at the integrated schools. These boys are very artistic and skillful with their hands but do not have an opportunity to practice their manual skills. Hence, they lack satisfaction and success in school and tend to drop out. Others drop out because it is the thing to do.
- (3) While counselors try to work with these students they often do not fully understand why students drop out.
- (4) Many of the students in the junior high schools have little academic success. They almost always have C's and D's in their examinations and hence they land at the bottom of the class and begin to think less and less of themselves in comparison to the rest of the students. This has obvious detrimental effects on their moral.

- (5) Special remedial programs are not provided in these schools because costs are determined by an outside formula which does not take these things into account
- (6) There are some real advantages to the present system, and while most students cannot take full advantage of it, some students can, and do very well. They are just as good at school as any white student; they work very hard and overcome all the handicaps.
- (7) One of the real advantages of the present system is that all students from the Reserve have the opportunity to go to the same school and get the same high level of teaching as do white students.

The existing system is considered sufficiently worthwhile to justify the attempted correction of some of the difficulties being encountered by Indian students. The following may be considered in this respect:

- Many of the suggestions made for the elementary schools may be applied here
- (2) Particular attention should be paid to the problem of the boys in junior and senior high school. It should become important for them to go to school and thus they should be given every opportunity to take part in a much wider program of pre-job training. If it is at all possible for boys to get this opportunity on the Reserve or in town, then a work experience program should be set up in connection with their school work. Even if this means that a new program is set up whereby students take part of their "education" out of the school, this would help the boys understand the need for more education. White boys could also take part in these programs.
- (3) Parents should be aware of what is being done in the school and should be encouraged to visit the school often. The principals and teachers think that this could be done and they are in favour of it.

- (4) An education centre for students should be set up on the Reserve which would supplement the learning experience at the Ponoka schools. This centre should have many opportunities for boys to practice skills learned at school. It should also include a good library and student listening centre. The Band should decide how such a centre should be established and organized and make plans accordingly.
- (5) It is essential that students, parents and teachers work closely together. There should be a serious attempt to help parents understand the problems of the teachers and to help the teachers understand the problems of the students from the Reserve. Effective communications are the key to problem solving.
- (6) Parents should have an opportunity to visit many different schools in the province, including technical schools and the Universities, in order to broaden their knowledge of the school system.
- (7) A definite remedial program for academic students should be worked out between the teachers, students and parents.
- (8) A permanent boys' and girls' counselor for Indian students may not be necessary if proper communication is established between counselors, parents and students, but counselors should have many opportunities to visit parents on the Reserve just as parents should have many opportunities to visit the school.

Post-school Education

There is considerable evidence that people on the Montana Reserve would like to have a chance to get some additional training and education. At the present time there seems to be no good continuing program of adult education or training available, yet many of the people have an education much below the Grade 6 level. Some of the problems confronting the adults wishing further education are as follows:

- (1) Most adults on the Reserve do not have much education and so cannot take advantage of many standard programs which are available.
- (2) Large families and overcrowded conditions make any kind of home study very difficult.
- (3) The lack of books, magazines and newspapers on the Reserve is very evident. Television and radio are the major sources of outside information available in the home.
- (4) Transportation on the Reserve is limited because few people can afford to run cars.
- (5) Courses which adults on the Reserve could take are not readily available although the Indian Affairs Branch provides grants for persons who want to go outside the Reserve to take special vocational training.
- (6) Many people on the Reserve do not know what is required to get into special courses.
- (7) Many people simply don't realize how much education is required to get and to hold a good job.
- (8) Many people on the Reserve have simply given up all hope of ever improving either their education or their ability to get and hold a job after training has been completed.
- (9) Very few people on the Reserve have sufficient initiative to do anything about their problems under the present situation.

The following suggestions may be considered in the development of adult or post-school education on the Montana Reserve.

(1) Members must make a serious analysis of the problems associated with adult education. They must assess the latent demand for such courses and must determine the desirable nature of the courses. Many people have suggested that they would like very specific help in upgrading their education and getting training in such areas as mechanics, heavy duty equipment operators, bookkeeping, nursing and home-making.

- (2) Adult education could take place in the community, during trips off the Reserve and schools off the Reserve, in private homes or in centres on the Reserves. Members of the Montana Reserve should cooperate with members of the other Hobbema Reserves in an adult education program. Band members must decide what programs they want, how long they want them to run and how much time or money they can contribute to make them a success. Planning and organization should be done by the Band with advisory assistance from without when necessary.
- (3) The provision of books, magazines and newspapers could be arranged by Band members with some outside help. Teachers from the schools could help to choose books which could be purchased through Indian Affairs or from Band funds. A real education centre could be set up by the Band with very little assistance.
- (4) Transportation to and from adult education classes must be arranged. Several teachers have indicated a willingness to go to the Reserve to teach adult classes on a parttime or fulltime basis.
- (5) Detailed explanations of all adult courses available to Band members off the Reserve should be made available to all. This information should be obtained and distributed by the Band.
- (6) Band members must feel a sense of achievement in both their education and work. Some kind of internal reward system such as public recognition or salary upgrading might be given for improvement of education. The sociological section of this report makes certain recommendations about industry and jobs on the

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Reserve. These must be closely tied in with adult training and education classes.

(7) Some difficulties will undoubtedly be experienced by new programs but if Band members analyse these problems and discuss freely where they went wrong, then hopefully corrections may be made. With this type of attitude, the Montana Reserve could become a model to the other Reserves in this respect.

CURRENT SOCIAL ATTITUDES

The following comments were made by Chief Sam Currie.

"There are over 200 members in the Montana Band, they are in many cases people who do not trust anyone. They still live in fear and suspicion, they were trained to respect the treaties and promises which were made by the Crown in 1876, they are convinced that these treaties and promises which are now being slowly done away with in governments should remain binding. Many of our people young and old, do not know the difference between the treaties and the Indian Act. We are now confronted with the idea of more independence and at the same time we are asked to make some changes in the Indian Act for the government. How can we make any changes when our people are not informed regarding the legislation? All these years there have been poor communication between the Indians and the government workers, we must delay consultation on the proposed changes on the Indian Act and let our people learn more about the legislation. It seems like the government wants to do things overnight and get it over with and when we want things done our way it takes them many moons to accomplish anything for the Indians. They should not rush these things for it concerns the very lives of our people and their future. We are under Section 68 of the Indian Act, it allows us certain freedoms to manage our affairs. I will say that I am all for independence but at the present time the Montana Band is not equipped to take full responsibility. Most of our people lack the skills that are required for management. The Indian people must get educated and the day will come when they will have to manage their own affairs in a modern world. "

The following notes evolve from a sociological survey of Reserve residents carried out during the period of the study.

Employment

Lack of employment was presented by most Band members as being one of the main problems on the Reserve. Because the winter works program was cancelled during the past winter nearly all of the available work force was unemployed with the result that most of the male Band members were at home throughout the winter. The unemployment situation has caused several problems; there is more drinking and many marriages appear to be running into difficulty because the man has no reason to leave the home during the day. This situation is intensified as a result of overcrowding in the homes.

Another aspect of the employment problem is that some of the men don't want to work full time. They would rather have a job that they can leave when they so desire. This attitude has obvious ramifications for any proposed industry of the Reserve. Several people mentioned that if any industry was to be started on the Reserve it would have to take into account the fact that some people are not going to work steadily at first. People will be late, and will possibly be off work for a few days or even weeks at a time, particularly in the summer when the rodeo circuits are active and the stampedes are in full swing.

Most of the Band members felt that any industry would have to take into account the working habits of the people, but that a definite policy of employment and work habits should be established and should be abided by. It was quite often suggested that a man be allowed to be late three times and then the fourth time be fired. The same would apply if he was missing from work without good reason.

The labor force survey conducted by the Department of Indian Affairs in 1967-68 indicated that there were 30 people available for employment on the Montana Reserve These people had an average education of 6.1 grades, however, there are quite a number of these people interested in further training. The skills available on the Montana Reserve as listed in the labour force survey include home economics (1), heavy equipment operators(2), business training(2), native handicrafts (1). There were a few other

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skills noted, but these were mainly held by older people who have now retired and would not be interested in further work. About 90 per cent of the men have worked off the reserve at one time or another. Most of this work has been casual farm labor, driving a tractor or baling.

At the time of this study, only two resident Band members were employed on a full time basis.

Housing

Next to employment, housing and overcrowding were the next major problems brought forward by the people on the Montana Reserve. As previsouly mentioned in Section 1 of this report, the average crowding index on the Reserve is 1.6. This situation of overcrowding is causing many problems, which were accentuated during the severe cold spell in January, 1969. In order to conserve funds allocated for heating, several families doubled up. One specific result of the ensuing overcrowding was the deterioration of study habits of many school children who were placed in a position of trying to study in the same room in which five or six children were playing. This situation resulted in lower marks and poor school attendance.

Economics

The people of the Montana Band expressed a requirement for an average income of \$33 per capita per month in order to meet the costs of living. This figure varied with the sex and education level of the head of household. Where the head of household was male with Grade 6 or less, the average requirement was set at \$36 per capita per month; if he had Grade 7 or more, the family required \$45 per capita per month. Where the head of the household was female having Grade 6 or less the family expressed a requirement for \$32 per capita per month; where she had Grade 7 or more the requirement was \$38 per capita per month.

One observation volunteered by many band members was with respect to the pay scale for Band projects. They felt that incentive programs should be applied similar to those normally found in industries in Wetaskiwin or Edmonton, such that an employee working regularly for a period of one year would receive a salary increase for proving himself dependable. Further indications of ability and interest in his work should result in further increases. On band projects, as currently administered, workers receive the same pay, whether they work regular hours and show interest in the work or whether they appear only once a week and show no interest.

Recreation

There appears to be a complete lack of organized recreation on the Montana Reserve. Although a skating rink has been built, inclement weather has caused a very low degree of usage. Some plans have been made for a boys hockey team, but no plans exist for girls recreation. Because of this lack of organized activities, drinking, card playing and television viewing have become the major recreational pursuits. Drinking has lead to problems with the law and has resulted in several car accidents.

The only idea suggested by Band members for further recreation was that 4-H clubs be started and perhaps some other youth groups for the girls. Some Band members didn't realize that 4-H programs are also available for girls. One further comment which arose was the requirement for an organized babysitting arrangement in conjunction with any activities planned for ladies on the Reserve.

Farming

Only two people on the Montana Reserve expressed a desire to farm on their own. Other Band members felt that they would be interested in working on a Band farm but did not want to try to farm themselves. No interest was expressed with regard to participation in farm management, but rather in tractor driving and other simple tasks with which the members have become familiar as a result of working for white farmers in the area.

When asked how many acres they thought it would take to make a living from grain farming, the average response was 145 acres. The average person interviewed thought that it would take 45 cows to make a living on a cow-calf operation. One Band members suggested that the Band might establish a feed lot as a winter works program which would leave the members free to participate in the rodeo circuit during the summer. Another member commented that, based on previous experience, any farming project would not get enough sustained interest to make it succeed.

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It was suggested by several members that a white man would have to be hired to manage a farm operation, and probably other whites from off the Reserve would be required to keep the operation going when not enough Band members showed up for work. Several members mentioned that farm co-ops do not work because people simply cannot get along; they will start fighting about who is doing the most work and who is getting the most benefit. One member mentioned an interest in the economics of potato growing. Another suggested that the rough area on the east end of the Reserve be used to train machinery operators in the process of preparation of the land for agriculture.

Relations with the Band Council

Band members in general have very little knowledge regarding the activities of the Band Council. The Council is regarded and used simply as a welfare group. Sixty-five per cent of the people on the Reserve expressed dissatisfaction with the Council; the rest appeared fairly satisfied with what Council was providing for them. One general observation was that Council is so involved with welfare work that they are not able to deal with development policies in which several of the Band members are interested. It was felt that Council spent too much time with detailed administrative work which could be done by staff members.

Summary of Attitudes

A general feeling exists on the Montana Reserve that nothing can be done by the Band members. Several members mentioned that if any project was to succeed on the Reserve, a white man would have to be brought in to act as a manager or supervisor; there was simply not enough faith in fellow Band members to indicate that a Band project without white administration would succeed.

In response to the question, "Do you think that the Reserve will be a better place to live in 10 years?", 85 per cent responded that they felt it would be worse; 15 per cent thought it would be better. This gives a general idea of the members' attitude toward the Reserve's future. Eighty-five per cent of the Band members expected that their children would leave the Reserve. Seventy-five per cent felt that some development on the Reserve

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would be possible, but most added the proviso "if a white man is brought in to act as a supervisor". The remaining twenty-five per cent did not think that any development would be possible on the Reserve under present or foreseeable circumstances.

In response to probes regarding general attitudes towards fellow Band members, 45 per cent of Band members expressed no hope for fellow members, based on their attitudes, work habits and general motivation. Another 45 per cent thought there was some hope for fellow Band members and the remaining 10 per cent were indifferent, indicating no concern whatsoever for other Band members.

One significant portion of the Montana population which appears to receive little specific consideration from Band Council is the 17 families having a woman as household head. These families have 65 dependents, making a total of 82 people who have little chance of getting off welfare under the present system on the Reserve.

The distance of the Reserve from Hobbema and the lack of transportation in the winter creates a communication problem. Ignorance of Council activities leads to fear and resentment of Council members, and some members feel that those Band members living closer to Hobbema seem to be getting more consideration from the Council.

Welfare has become the generally accepted way of life for many Band members. Several suggestions have been put forward by Band members as possible means of reducing welfare. One such suggestion is that a bus service be started on a regular schedule around the Reserve so that people can go into Hobbema to shop and maintain contact with general Reserve activities. Another suggestion is that anyone on welfare should have to take some form of training, either upgrading or further education, until they are employable. It was realized that this would involve a considerably higher expenditure on welfare in the immediate future, but it was suggested that such a system would eventually put an end to welfare except for the old, those who are unable to work due to physical handicaps, and those who do not wish to work.

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There appear to be two distinct groups on the Reserve; those who want to have more to do with white society and those who wish to remain isolated from white society. It is this second group who remove their children from school as soon as legally possible in order to minimize the requirement for contact with white society and it is generally in this group that most of the fear and suspicion mentioned by Chief Currie is found.

In summary, the lack of employment, low educational level, overcrowding of houses and high number of families with women at the head of the household are creating a social problem on the Reserve. Added to this is the lack of transportation and poor communications.

The Band as a whole is isolated and many members have lost all hope of social or financial advancement. Children growing up in this type of atmosphere tend to have a negative attitude. Any development program for the Montana Reserve must include a comprehensive consideration of all of the factors mentioned. Trying to approach these factors one at a time will end in failure.

Current social and economic rewards on the Reserve for higher education are practically non-existent. There are currently no employment opportunities on the Reserve requiring a higher level of education and it follows that anyone achieving a high level must leave the Reserve in order to utilize their education. For those who do not wish to leave the Reserve there appears little benefit in attaining a high educational level. As yet, only a few Band members see getting more education as a basis for improving the Reserve. Most of the parents who want their children to attain Grade 12 or University expect their children to leave the Reserve. Parents on the average expect their children to achieve approximately 1/2 grade less education than that which they feel necessary to obtain a good job and this in itself is a strong indication that many parents have given up hope.

The Band's educational aspirations are such that members cannot compete with the rest of society on an equal basis. Their aspirations with respect to farming are indicated by the amount of land which they feel is necessary in order to make a living, an amount far below that which would be required

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to even subsist under present economic conditions.

Pride is particularly lacking on the Montana Reserve. Until some project can be initiated on the Reserve and completed successfully so that the people can start to be proud of being members of the Montana Reserve, there seems to be little hope for general improvement. Because of this social situation, development on the Reserve is expected to be difficult.

SECTION 3 - ECONOMY OF THE RESERVES

BAND INCOME AND RESOURCES

The Montana Band operates under Section 68 of the Indian Act, which gives the Band freedom to control, manage and expend its revenue monies.

Table 1 below shows the Band's income for the fiscal year 1967-68, and indicates the balance in Capital, Revenue and Leasing accounts as of March 31st, 1968:

<u>Capital Ac</u>	count		
	Grant	\$ 37.20	
	Federal Winter Works Incentive Subsidy	\$ 3,902.97	
	Band Loans	\$ 5.95	
	Share to Transferred Members	\$ 248.75	
	Transferred from Four Band Capital Acct.	\$45,770.86	
	Total		\$ 49,965.73
Balance in	Capital Account - \$15,425.83, a	as of March 31	, 1968
Revenue A	account		
	Oil Surface Leases	\$ 3,682.40	
	Revenue Interest	\$ 2,011.44	
	Band Loans	\$ 1,137.10	
	Shares to Transferred Member	s\$ 33.08	
	Other	\$ 4,402.50	
	Total		\$ 11,266.52
Balance in	Revenue Account - \$ 2,409.05 a	as of March 31	, 1968
Leasing A	ccount		
	Agriculture Leases	\$11,085.11	
	Interest	\$ 813.14	
	Total		\$ 11,898.25
Balance in	Leasing Account - \$12,184.29,	as of March 3	1, 1968.
	TOTAL INCOME		<u>\$ 73,130.50</u>

TABLE 1 - SOURCES OF INCOME, FISCAL YEAR 1967-68

The item in Table 1 shown as "Shares to Transferred Members" refers to monies received from other Reserves for members who have joined the Montana Band, usually through marriage. The item "Transferred from Four Band Capital Account" refers mainly to transfer of oil revenue. Interest items result from the 5 per cent interest paid by the Federal Government on Band funds held in trust.

Total Band expenditures for the fiscal year 1967-68 were \$118, 843. 86. Table 2 shows a breakdown of these expenditures.

	Revenue	Capital
Roads	\$ 84.55	\$ 4,729.00
Housing & Yards	629.26	
Water Systems	114.62	2,482.00
Public Works		5,655.00
Social Welfare	8,715.91	8,409.00
Ass't. to Ag.	537.75	23,812.00
Celebrations	1,610.86	3,991.00
Recreation	244.82	6,258.00
Salaries	10,143.07	
Stationery	110.30	
Audit	350.00	
Other	50.95	
Re-establishment	665.77	
Oil Payments		40,250.00
	\$23,257.86	\$95,586.00
Total Expenditures	\$118,8	343.86

TABLE 2 - BREAKDOWN OF EXPENDITURES FROM REVENUE AND CAPITAL ACCOUNTS FOR THE FISCAL YEAR 1967-68

A comparison of Tables 1 and 2 shows that Band expenditures exceeded income in the 1967-68 fiscal year by approximately \$ 46,000.

Band members received \$ 68,721.50 in cash and loans from the Band. Included in this amount are wages paid by the Four Band Council to Band members and \$ 13,991 in agricultural lease revenue, \$ 5,732 of which was used to repay Band loans. Members received a further \$ 22,048 (approx.) in transfer payments (family allowance and old age pensions). In addition, members received monies from such sources as war pensions, treaty monies and unemployment insurance. Some members were employed off the Reserve for varying periods of time, further increasing the total amount of cash available to Band members. It is estimated that approximately \$ 90,000 cash was available to Band members during the 1967-68 fiscal year (approx. \$32.80 per capita per month), not including outside earnings, unemployment insurance, war pensions and treaty money.

Complete data for the 1968-69 period was not available at the time of writing. 1969-70 Band income has been estimated by the Band Council as per Table 3.

·	Capital	Revenue
Gravel Dues		\$ 1,000
Interest		1,800
Farm Leases		5,000
Housing Repayments		4,000
Transfer from Capital	\$70,000	
Lease Account for Debts		2,000
	\$70,000	\$13,800

TABLE 3 - ESTIMATED BAND INCOME, CAPITAL AND
REVENUE FOR FISCAL YEAR 1969-70

It would appear that if expenditures are maintained at the 1967-68

level, the Band will again operate at a deficit in the 1969-70 fiscal year.

SECTION 4 - PHYSICAL DEVELOPMENT OPPORTUNITIES

AGRICULTURAL DEVELOPMENT

Resource Evaluation

Soil

The evaluation of the agricultural resources on the Reserve was based primarily on a study of the soil resources. This information was obtained from the maps prepared as part of the Canada Land Inventory¹. The Canada Land Inventory is a comprehensive survey of land capability and is an interpretive grouping which groups mineral soils into seven classes according to their potential for agricultural development. Within each class, sub-classes further group soils which have a similar limitation and provide information on the conservation practices necessary for that class of soils. A detailed description of the soil capability classification and a summary of the assumptions used is given in the Canadian Land Inventory Report No. 2².

A summary of the land capability with respect to cropping potential given on page 3 of the above report states:

> The first three classes are considered capable of sustained production of common clutivated crops, the fourth is marginal for sustained arable culture, the fifth is capable of use only for permanent pasture and hay, the sixth is capable of use only for wild pasture, while the seventh class is for soils and land types (including rock outcrop and small unmappable bodies of water) considered incapable of use for arable culture or permanent pasture. While the soil areas in classes one to four are capable of use for perennial forage they are also capable of use for perennial forage crops. Soil areas in all classes may be suited for forestry, wildlife and recreation.

Assistance in data interpretation was provided by Mr. T. W. Peters and Mr. A. A. Kjearsgaard of the Alberta Institute of Pedology, University of Alberta.

² The Canada Land Inventory, Report No. 2 - 1965, Soil Capability Classification for Agriculture, Department of Forestry, Ottawa.

For the purposes of evaluating the land available for agriculture on the Reserves the grouping of soils in Table 4 was used.

Capability Class	Group	Crops
1, 2, 3	Arable	Grain, oilseed, hay
4,5	Forage	Tame hay or pasture
6	Native	Wild pasture (native state)

TABLE 4 - SOIL GROUPINGS

Estimates of the land area in each of these classes were prepared from the soil capability map (Refer to Map No. 9). Arable land was considered as the acreage that can be developed or was already developed for sustained production of wheat, oats, barley, rapeseed, flax, tame hay, or tame pasture. The forage land was considered to be land that could be improved for tame pasture or tame hay to support some form of beef operation. The native land acreage was land that was classified as land unlikely to be improved but could still provide some pasture.

Since the estimated acreages included land occupied by the resident, and land with localized restrictions such as sloughs which would make cropping very difficult, the estimated areage available for sustained cropping (Class 1, 2, 3) was reduced by 15%. This acreage was added to the acreage of native land available.

Climate

Examination of the Canada Land Inventory Report¹ shows that the Reserves are located in Climatic regions 6G and 6H, the boundary in the center of the four Reserves at Hobbema, and on the border of Climatic region 5G. The eastern half of the Reserves are in zone 6G which is characterized by 1800 to 2200 degree days². The area experiences 75 to 90 frost free days,

¹ The Canada Land Inventory, the Climates of Canada for Agriculture, Report No. 3, Department of Forestry and Rural Development, Ottawa, figure 24.

² ibid., figure 9, for a definition of degree days. It is a measure of the days above 42°F. during the growing season, as plant growth ceases below 42°F.

and 10 to 13 inches of precipitation from May to September. The western half of the Reserves are in zone 6H which is characterized by 1800 to 2200 degree days, 75 to 90 frost free days, and 12 to 15 inches of precipitation from May to September. Thus all Reserves have the same temperature characteristic but the precipitation during the growing season increases slightly from east to west. The average May to September precipitation¹ is 12 inches. The growing season² as measured by the date of the mean temperature above $42^{\circ}F$. extends from April 25 to October 6. These dates reflect the start and end of grass growth for the season. (Refer to Maps 4, 5 and 6.)

Resources Required by Farm Units

This section deals with the data used to determine the resources required to provide a reasonable return on each farm enterprise if the operator was involved exclusively in that enterprise. Obviously any combination of these enterprises can be obtained and in some cases they would be beneficial. The only enterprises considered were grain and forage crops on arable land, cow-calf enterprise for pasture utilization, a beef feedlot, and a farrow to finish swine operation for utilizing grain grown on the Reserve. Poultry and sheep operations could have been added but they require specialized interests, and similar operations in the form of the swine enterprise and cowcalf enterprise are already included.

The data used in this analysis was based on the performance of farmers in the Black Soil Zone of Alberta. Allowances were not made for the additional benefits of farming on the Reserve, such as:

- (1) absence of income tax on income from Reserve enterprises,
- (2) various grants from the Indian Affairs Branch (i.e. rotating herd program)

Interest on the investment required for the farm enterprises was charged at 5% per annum which is close to the rates charged by the Indian

 2 ibid, figure 7 and figure 8.

¹ ibid, figure 16,

Affairs Branch. The added benefits mentioned above would serve to moderately improve the income potential of farming enterprises on the Reserve.

It may be noted that the assistance provided by the Indian Affairs Branch until very recently has tended to perpetuate small uneconomic farm units. Current programs appear to be moving toward supporting a more economic farm unit. (i. e. larger loans are being provided).

Cropping Enterprise

The data used here are a composite which resulted from detailed examination of the Alberta Farm Business Reports¹, 1966 Crop⁻ Enterprise Analysis², Economics of Grain-Fallow Rotations and Fertilizer Use in the Prairie Provinces³, and the yearly estimated yields for the subject area published by the Alberta Department of Agriculture⁴.

Tables 5 to 12 summarize the data used to determine the resources required by a "Basic Family Farm Unit" under two different plans by which rent is paid to the Band. The assumptions used to develop these units were: -

(1) The operator's earnings should be approximately \$4,000 annually.

(2) The operator and his family could provide the necessary labor. Barley and wheat were the only crops used in calculating the arable acreage required for these units as they are the principal crops grown in the area. Oats, flax, and rapeseed were included in Table 5 and Table 6 for comparison.

- Alberta Farm Business Reports 1962-66, Alberta Department of Agriculture, Economics Division, Edmonton, Alberta.
- ² 1966 Alberta Crop Enterprise Analysis, Alberta Department of Agriculture, Economics Division, Edmonton, Alberta.

³ MacKenzie, J.S., <u>Economics of Grain-Fallow Rotations and Fertilizer Use</u> <u>in the Prairie Provinces</u>, Economics Branch, Canada Dept.of Agriculture, Ottawa.

* November Estimates of Production of Principal Crops, Alberta. Alta. Dept. of Agriculture, Statistics Branch, Economics Division, Edmonton, 1966-67-68

ITEM			CROP		
	$\frac{\text{Wheat}}{\$}$	Barley \$	<u>Oats</u> \$	Rapeseed \$	$\frac{\text{Flax}}{\$}$
Seed	2.00	1.50	1.00	.75	1.40
Chemicals	.40	. 40	.40		
Fertilizer	3.90	3.90	3.90	3.90	3.90
Other Cash Costs	1.50	1.50	1.50	1.80	1.80
Total Direct Cash Cos	ts 7.80	7.30	6.80	6.45	7.10
Equipment Operating Costs	3.80	3.80	3.80	3.80	3.80
Building Maintenance	45	. 50	. 60	. 10	. 10
Total Variable Costs	12.05	11.60	11.20	10.35	11.00
Equipment Depreciation and Interest at 5%	on 5. 80	5.80	5.80	5.80	5.80
Building Depreciation and Interest at 5%	. 95	1.05	1.15	. 10	. 10
Total Fixed Costs	6.75	6.85	6.95	5.90	5.90
Total Production Cost Excluding Land Rental		10 45	10.15	1/ 25	16.00
and Labor	18.80	18.45	18.15	16.25	16.90
Yield per Acre	26 bu.	35 bu.	45 bu.	800 lbs.	13 bu.
Price	1.45	.95	. 60	.045	2.75
Gros Returns	37.70	33.10	27.00	36.00	35.75

TABLE 5 - SUMMARY OF CROP PRODUCTION COSTSAND RETURNS PER CROP ACRE

It should be noted in Table 6 that if the Band receives one quarter of the crop, over 1,900 acres of oats must be seeded to give an average income of \$4,000 to the operator. If the Band receives one-third of the crop over 1,100 acres of barley have to be seeded. At the present time, it is difficult for one man to farm this much land. It becomes apparent that a crop rotation of wheat and barley with the Band receiving one quarter of the crop is the only feasible plan from the data in this table. Flax and rapeseed are two other alternatives but they are high risk crops.

Rental Plan	Acreage	Per Farn	n Unit	Band Ind	come
	Cropped	Fallow	Total	Total	Per Acre
No Rent Paid to Band					
Wheat	212	71	283	\$ -	\$ -
Barley	273	91	364		
Oats	452	151	603		
Rapeseed	202	67	269		
Flax	212	71	283		
Band Receives 1/4 of	Crop				
Wheat	421	140	561	3,957	7.05
Barley	628	209	837	5,200	6.21
Oats	1,905	635	2,600	12,858	4.95
Rapeseed	372	94	456	3,348	7.35
Flax	404	135	539	3,612	6.70
Band Receives 1/3 of	Crop				
Wheat	633	211	844	7,957	9.43
Barley	1,104	368	1,472	12,177	8.27
Oats		0	perator l	oses money-	
Rapeseed	516	172	688	6,192	9.00
Flax	578	193	771	7,020	9.10

TABLE 6 - ACREAGE REQUIRED TO PROVIDE OPERATOR \$4,00)0
ANNUAL INCOME USING DIFFERENT CROPS	

Note: The rotation was assumed to be 3 years crop and 1 year fallow.

Other forms of payment to the Band may be considered rather than the one quarter crop share arrangement mentioned above. Such methods might include cash leases, payment of a fixed percentage of return on investment, or an assessment system based on services supplied by the Band. Each of these systems would tend to change the distribution of income between farmer and Band, but would not change the total income.

Use of any system which would result in the Band receiving less revenue than would be realized through leasing the land to white farmers must be recognized as a subsidy to Band farmers. The Band must decide if it wishes to subsidize Indian farmers, and act accordingly.

Using a crop rotation of one-half barley, one quarter wheat and one quarter summer fallow on 700 acres, a farmer on the Reserve can expect an average gross return of \$18, 183. To achieve this gross return however, he must use good management and put about 100 lbs. of 23-23-0 fertilizer or equivalent per acre on the stubble land, and spray for weeds.

TABLE 7	- PHYSICAL PRODUCTION AND RETURN FOR BASIC
	FAMILY FARM ON RESERVE UNDER 1/4 CROP
	SHARE RENTAL

Item	Acres	Average Yield		Total Value
Wheat	175	26 bu.	\$	6,598
Barley	350	35 bu.	·	11,585
Fallow	175			
Total Crop Acres	700		\$	18,183

TABLE 8 - COST OF PRODUCTION AND PROFIT FOR FAMILY FARM ON RESERVE UNDER 1/4 CROP SHARE RENTAL

Item			Value	
Value of Production			\$	18,183
Direct Cash Costs Wheat Barley	\$	1,365 2,555		
Equipment and Buildings - Variable Co Wheat Barley	ost \$	744 1,505		
Total Variable Costs				6,169
Net Above Variable Costs			\$	12,014
Fixed Costs Wheat Barley	\$	1,181 2,398		
Total Fixed Costs				3,579
Net Above Fixed and Variable Costs			\$	8,435
Crop Rental to Band (1/4 Crop Share) Wheat Barley	\$	1,649 2,896		
Total Rental to Band				4,545
Net Return to Labor and Management			\$	3,890

Item	Value
Operating Capital Machinery and Equipment Capital Building Capital	\$ 6,200 24,000 <u>7,400</u>
TOTAL CAPITAL	\$ 37,600

TABLE 9 - CAPITAL REQUIREMENTS OF FAMILY FARM
ON RESERVE UNDER 1/4 CROP SHARE RENTAL

Table 9 shows the cost of starting a 700 acre farm. The \$31,400 would be required the first year to buy machinery and graineries, and the \$6,200 required for fertilizer, oil, gas, spray, repairs and seed. It is assumed that good used equipment would be bought.

Tables 10, 11 and 12 show the economic and physical requirements for a family farm which is paying the Band 1/3 of the crop. The farm would require 1,200 acres of crop land assuming a rotation of one-half barley, one quarter wheat and one quarter summer fallow. The gross return on this size grain farm would be \$31,170 and the Band would receive \$10,390. To start a farm of this size \$64,600 would be required the first year. This assumes that good used machinery is purchased and kept in good repair. After the first year, operating costs would be the only direct cash cost, but it would increase as the repair bill went up.

SI	HARE RENTAL	·····	
Item	Acres	Average Yield	 Total Value
Wheat Barley Fallow	300 600 <u>300</u>	26 bu. 35 bu.	\$ 11, 310 19, 860
Total Crop Acres	1,200		\$ 31,170

TABLE 10 - PHYSICAL PRODUCTION AND RETURN FOR BASIC FAMILY FARM ON RESERVE UNDER 1/3 CROP SHARE RENTAL.

It becomes evident that a one-third crop share arrangement puts the operator at an extreme disadvantage. If the Band wants to rent land on a one-third crop share agreement to Band members, they should probably share one-third of the cost of fertilizer and spray. This would amount to \$3,870 which would lower the risk that the farmer was taking. If this procedure was followed, the Band would net \$6,520 but only 1,040 acres would be required for the operator to make \$4,000.

TABLE 11 - COST OF PRODUCTION AND PROFIT FOR FAMILY FARM ON RESERVE UNDER 1/3 CROP SHARE RENTAL

Item			Value	
Value of Production			\$	31,170
Direct Cash Costs	•	2 2 4 0		
Wheat Barley	\$	2,340 4,380		
Equipment and Buildings - Variable C	osts			
Wheat Barley	\$	1,275 2,580		
Total Variable Costs				10,575
Net Above Variable Costs			\$	20,595
Fixed Costs	<i>•</i>	2 025		
Wheat Barley	\$	2,025 4,110		
Total Fixed Costs				6,135
Net Above Fixed and Variable Costs			\$	14,460
Crop Rental to Band (1/3 Crop Share)				
Wheat	\$	3,770		
Barley		6,620		
Total Rental to Band				10,390
Net Return to Labor and Management			\$	4,070

TABLE 12 - CAPITAL REQUIREMENTS OF A FAMILY FARMON RESERVE UNDER 1/3 CROP SHARE RENTAL

Item	 Value
Operating Capital Machinery and Equipment Capital Building Capital	\$ 10,600 41,800 12,200
Total Capital Required	\$ 64,600

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Cow-calf Enterprise

The data for the cow-calf enterprise were obtained from the Alberta Cow-Calf Enterprise Analysis by B. A. Hackett¹. The data for farmers on Black Soils were used. The major difference here is that rather than putting a direct charge on hay and pasture, it was assumed that the operator would utilize land which could not be cropped, and instead would pay a pasture rental. This was then used to determine the physical and capital resources required to give the operator an annual income to labor and management of \$4,000, assuming that the operator and his family provide all the necessary labor. Grazing rates for the pasture and the cost of maintaining tame pasture were obtained from Love and McMillan². The grazing of crop residue was not included in this analysis. The cost of harvesting forage was calculated from equipment costs given in the Farm Management Data Manual³ based on yields equal to 80% of the November estimates⁴ for the area. The yield estimates were reduced to 80% of the November estimates because:

(1) The land for hay and pasture was in land capability Class 4 and5.

(2)

1966 crop production was substantially above average.

- Hackett, B.A., <u>Alberta Cow-Calf Enterprise Analysis</u>, Alberta Dept. of Agriculture, Economics Division and Animal Industry Division, Edmonton, Reports for 1965, 1966 and 1967 Highlights.
- ² Love, H. C. and M. L. McMillan, <u>Alberta's Pasture Resources and Esti-</u> <u>mated Potential Production From Improvement of Privately Owned Land</u>, Agricultural Economics Research Bulletin 6, University of Alberta, 1968.

³ Farm Management Data Manual, Farm Machine Rates - Alberta. Dept. of Agriculture, Economics Division, Edmonton.

⁴ November Estimate of Production of Principal Crops, Alberta Dept. of Agriculture, Economics Division, Statistics Branch, Edmonton, Reports for 1966, 1967 and 1968.

TABLE 13 - PHYSICAL RESOURCES REQUIRED BY COW-CALF ENTERPRISE

Item		Amcunt Per Cow	
Acres of Hay to supp when yield = 1.2 ton		2.0 acres	
Pasture required pe crop (Animal Unit M		f	
Cow Calf	6.00 1.70		
Bull (1 bull per 30 cows) Replacements	. 20		
(20% per year)	. 80		
Total	8.70	9.0 AUM	

TABLE 14 - COST OF PRODUCTION AND RETURN PER COW

Item	Value	
Gross Return per Cow	\$	90.00
Direct Cash Costs Grain and millfeed \$ 6.15 Harvesting 2 acres hay 6.09 Veterinary and medicine 1.40 Reseeding hay every 5 years 2.00 Other variables 8.50 (Marketing, building and equipment maintenance and operating)		
Total Direct Cash Costs		24.14
Net Above Variable Costs	\$	65.86
Fixed CostsHaying Equipment (depreciation and interest)and interest)\$ 4.42Insurance and depreciation(Fences, buildings, feeding equipment)Interest on Fences, Buildings and Feeding Equipment2.10Interest on livestock9.90		
Total Fixed Costs		21.42
Net Above Fixed and Variable Costs	\$	44.44

Bauer, L. E., 1966 Alberta Farm Business Report, Alberta Dept. of Agriculture, Economics Division, Edmonton, page 25. Animal Unit Month is a measure of the amount of pasture feed required to support one cow for one month.

Item	Value	
Land Rental where hay acreage equals 4 AUM Total = 13 AUM @ \$1.80/AUM		23.40
Net Return to Labor and Management	\$	21.04

Table 14 - Cost of Production and Return per Cow (Cont'd.)

Table 14 gives the costs and return per cow based on an 85% calf crop weaned. Direct cash costs come to \$24.14 and fixed costs are \$21.42. In addition to this there is \$23.40 for pasture and hayland.

TABLE 15 - COST OF PRODUCTION AND PROFIT FORFAMILY LIVESTOCK FARM ON RESERVE

Item	Value
Gross Returns	\$ 15,750
Direct Cash Costs	4,225
Net Above Variable Costs	\$ 11,525
Fixed Costs	
Depreciation and Insurance \$1,494 on Buildings and Machinery	
Interest on Livestock, 2,254 Buildings and Machinery	
Total Fixed Costs	3,748
Net Above Fixed and Variable Costs	\$7,777
Band Rental	4,095
Net Return to Labor and Management	\$ 3,682

Tables 15 and 16 give a general outline of the physical requirements and financial picture of a cow-calf operation yielding the operator about \$3,700. The return is below \$4,000 because one man and his family cannot feed and handle more than 175 head of cows without considerable expense being incurred for mechanization. It should be noted that the Band receives more from this size of an operation than the farmer does.

Resource		 Amount	
Cows	175		
Hay Acreage	350 acres		
Pasture Acreage	1,575 AUM ¹		
Labor Required	2,600 hrs		
Operating Capital		\$ 4,225	
Machinery and Equipment Ca	apital	15,400	
Livestock Capital		34,650	
Total Capital		\$ 54,275	

TABLE 16 -	RESOURCES A	AND CAPITAL	REQUIRED 1	BY BASIC
	LIVESTOCK F	FARM ON RES	ERVE	

Beef Feedlot

Data used in this analysis were obtained from Alberta Cattle Feeding Analysis Reports by B A. Hackett². The data were used to provide a basis for comparison with the other farm enterprises. Extreme care should be used in evaluating this enterprise as the price of feeder cattle and slaughter cattle varies quite widely. Cost data were the average of the medium cost group in the Black Soil Zone for 1965, 1966 and 1967. It is felt that these figures are representative of the cost of feeding cattle. The data on gross returns from the average of the same groups include the value of inventory at the beginning and end of the year. Thus gross returns in the study were not simply a study of the sales value per steer less the buying cost of the steer. The gross returns also include a return on the weight gain of animals that are in the feedlot at year end.

Table 17 is based on a gross return of \$25.17 per 100 pounds of live animal produced (weight added from the feeding enterprise) rather than \$27.28 which is the average gross return in the analysis reports. The data from the Cattle Feeding Analysis show that the average weight of the feeders was 589 pounds and the average purchase price was \$23.53 per 100 pounds.

¹ 1575 AUM is equivalent to 1750 acres of native pasture or 830 acres tame pasture.

² Hackett, B.A., <u>Alberta Cattle Feeding Enterprise Analysis</u>, Alta. Dept. of Agriculture, Edmonton, 1965 and 1966 Reports, 1967 Highlights.

The average price and average weight of slaughter cattle sold was \$24.21 per 100 lbs. and 1,008 pounds respectively. In order to achieve a return of \$27.28 per 100 lbs. of live animal, the average selling price would have to be \$25.08 per 100 pounds or \$0.87 above the average selling price. The higher return was due to a larger margin on inventory. The labor and management return would be \$4.44 per 100 pounds of live animal produced if the gross return was \$27.28.

This illustrates the importance of marketing in achieving satisfactory returns to a cattle feeding operation. Hackett¹ shows some of the variation in feeder cattle prices in recent years and indicates some of the factors which may aid an operator in his management decisions. Due to the variability of the returns to cattle feeding, the size of the basic unit should be regarded as a general guide for comparison with the other enterprises.

The data were used to estimate the resources required to provide the operator with an annual labor and management income of \$4,000. These data are summarized in Tables 17 to 19. All estimates are expressed on the basis of 100 pounds of live animal produced.

From Table 17 it becomes apparent that a man will receive \$2.02 per hour on a cattle feeding enterprise. However, this \$2.02 is for labor, management and taking the risk (which is quite high in this enterprise). The size of operation as shown in Table 18 will allow for some spare time on the part of the feeder. It is quite possible that he could work for a farmer in spring and fall.

Table 19 shows an initial capital investment of \$63,714. This total includes only one-half the total annual number of cattle fed and one-half the total annual operating expenses because there will be two groups of 218 cattle fed each year.

¹ Hackett, B.A., <u>1966 Alberta Cattle Feeding Analysis</u>, Alberta Dept. of Agriculture, Edmonton, page 53.

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Item		Value	
Gross Return		,	\$ 25.17
Feed Costs			
Grain and Millfeed Roughage Pasture	\$ 14.28 3.17 0.40		
Total Feed Cost			17.85
Net Above Feed Cost			\$ 7.32
Other Variable Costs			
Veterinary and Medicine Other variable costs (building and equipment	\$.27		
maintenance, etc.)	1.43		
Total of Other Variable Costs			1.70
Net Above Variable Costs			\$ 5.62
Fixed Costs			
Insurance and Depreciation Interest (building and	\$ 1.19		
equipment)	. 59		
Interest on livestock	1.61		
Total Fixed Costs			3.39
Return to Labor and Manageme	nt		\$ 2.23
			 1 1 1 -

TABLE 17 - ESTIMATED COST OF PRODUCTION, PROFIT AND INVESTMENT PER 100 POUNDS OF LIVE ANIMAL PRODUCED IN CATTLE FEEDING ENTERPRISE

Return to Labor and Management\$ 2.23Labor required per 100 lbs. live animal produced1.1 hr.Investment per 100 lbs. produced9.64Buildings and Equipment\$ 9.64Livestock\$ 32.26

Item	 Value	
Gross Returns (1794 100 lb. units)		
Sale value 428 cattle @ \$244 Less Purchase 436 cattle @ \$136	\$ 104,432 59,296	
Gross Returns on Added Weight	\$ 45,136	
Total Variable Costs	35,073	
Net Above Variable Costs	\$ 10,063	
Total Fixed Costs	6,082	
Return for Labor and Management	\$ 3,981	

TABLE 18 - ESTIMATED COST OF PRODUCTION AND PROFITFOR CATTLE FEEDING OPERATION YIELDINGANNUAL OPERATOR EARNINGS OF \$4,000

TABLE 19* - RESOURCES REQUIRED BY CATTLE FEEDING OPERATION YIELDING ANNUAL OPERATOR EARNINGS OF \$4,000

Item	Amount
Cattle Required	436
Labor Required	1,973 hrs.
Building and equipment investment	\$ 17,240
Livestock Investment $(1/2 \text{ of total})$	28,937
Operating (1/2 of total Variable Costs)	17,537
Total Capital Required	\$ 63,714

* Table 19 is based on a livestock turnover of 2.0. Thus only 218 cattle would be fed at one time and this reduces the capital required for livestock.

Swine-Farrow-Finish Operation

Data are included on the resource requirement of a swing operation that would provide the operator with an annual labor and management income of \$4,000. The data for this unit were taken from the Alberta Hog Enterprise Analysis reports by Hackett and Reddon¹. Since the only land

¹ Hackett, B.A., and A. Reddon, <u>Alberta Hog Enterprise Analysis</u>, Alberta Dept. of Agriculture, Edmonton -- 1965 and 1966 Reports, 1967 Highlights.

required is for buildings, space limitations for this type of enterprise are minimal. Market and capital limitations are more significant. The number of swine operations or the size of a swine operation depends on the capital investment. For the purposes of this analysis, any economies of scale that would result from a very large operation are assumed to be an added bene-fit. The 1966 report¹ gives a good summary of where economies of scale are likely to occur.

Cost data are the average of the three years for the medium cost group in the reports¹ and return data were based on the 1967 returns which were slightly above the ten year average and about 4 per cent below the average for the previous five years. Tables 20 to 22 summarize the resources required for the "standard" swine unit.

The labor requirement shown in Table 22 indicates that one man will be working 184 days at 8 hours per day. Since this is not full employment he has two alternatives. He can expand the operation after he is sure he can manage this size successfully or he can work at some other enterprise. It must be stressed that very high levels of management must be maintained to achieve the return shown above.

Multiple Family Units

1

ibid.

Detailed cost and return data were not prepared for a multiple family farm for two reasons:

- (1) Some economies of scale occur mainly in the areas of reduced labor and equipment charges and increased production per unit. However, it was felt that multiples of the single family unit would give a good estimate of resource and earning potential.
- (2) The difference between the linear programming analysis of the total reserve and multiple family units was not significant in the case of Montana and Louis Bull.

If an estimate is needed of the resources required for a multiple family farm, it can be obtained by multiplying the number of families working on the farm by the resources required by the single family units discussed previously.

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Item		Value		
Gross Return			\$	42.00
Variable Costs				
Grain Millfeed Roughage Pasture	\$ 16.94 6.02 .35 .01			
Total Feed Cost				23.32
Net Above Feed Costs			\$	18.68
Other Variable Costs				
Veterinary and Medicine Other Variable Costs (Building and Equipment	\$.59			
Maintenance, etc.)	3.10			
Total of Other Variable Costs				3.69
Net Above Variable Costs			\$	14.99
Fixed Costs				
Building and Equipment Depreciatio Building and Equipment Interest Interest on Livestock	n \$ 2.80 1.50 1.09			
Total Fixed Costs				5.39
Return for Labor and Management			\$	9.60
Labor Required to Produce a Market H	og	3.5 hr.		, ,
Average Number of Pigs Weaned/Sow/M	lear	13		
Investment Required per Sow				
Building and Equipment Livestock			\$ \$	397. 283.

TABLE 20 - ESTIMATED COST OF PRODUCTION, PROFIT, AND INVESTMENT PER MARKET HOG PRODUCED IN HOG ENTERPRISE

 Value
\$ 17,472
<u>11,236</u>
6,236
2,242
\$ 3,994
Ţ

TABLE 21 - ESTIMATED COST OF PRODUCTION AND PROFIT FOR HOG ENTERPRISE YIELDING ANNUAL OPER -ATOR EARNINGS OF \$4,000

TABLE 22 - RESOURCES REQUIRED BY HOG ENTERPRISE YIELDING ANNUAL OPERATOR EARNINGS OF \$4,000

Item	Amount
Sows Required	32
Labor Required	l,472 hr.
Building and Equipment Investment	\$ 12,700
Livestock Investment	9,100
Operating	11,000
Total Capital Required	\$ 32,800

Trends in Farm Sizes

The data used to determine the resources for a single family unit are based on past experience. Farms have been expanding in both physical size and capital resources in the past and indications are that they will continue to do so. Thus the number of families that can be supported in the future by crops and cow-calf enterprises will be less than the estimates provided in this report. The increase in farm size from 1956 to 1966 which has occurred in the two counties which border the Reserve, agrees with the findings in a report by Purnell, Andarawewa, and Stutt¹ who have projected the resource use on Canadian farms to 1980 based on the average

¹ Purnell, G.R., A.B. Andarawewa, and R.A. Stutt, <u>Outlook in Patterns</u> <u>and Practices in Agriculture</u>, Economics Branch, Dept. of Agriculture (Canada), Ottawa, January 13, 1969, Table 8.

rate of growth from 1961 to 1966. They indicate that the capital requirements, machinery investment, and acres per farm, will increase while the workers per farm will decrease. Thus, some provisions should be made for the expansion of Reserve farms if they are to remain competitive.

Montana Reserve Analysis

Land Area

The total area of this Reserve is presently 6848 acres. Of this area, 627 acres were leased to the Crown for gravel deposits. Thus, the remaining agricultural area is 6221 acres. The majority of the soil (approximately 75%) on the Reserve is classified as 2S under the Canada Land Inventorys' Land Capability Classification. Thus, most of the soil is subject only to moderate limitations for growing crops with the main limitation being a soil that tends to dry out quickly. The Soil Survey of the Peace Hills Sheet¹ shows that the center of the Reserve has been classified as Peace Hills Fine Sandy Loam, the east side as Peace Hills Loamy Sand, and a narrow strip on the west side as Ponoka Loam. Thus, the majority of the Reserve is covered with coarse textured soil. 1967 records of Indian Affairs indicate 3121 acres had been improved.

Soil Resources

Estimates of acreage were prepared from the Canada Land Inventory Map according to the definitions given in Table 4. Table 23 gives these estimates which were combined with the standard units to obtain the agricultural potential of the Reserve.

Single Family Units

Only crop units and cow-calf units were used to determine the potential of the Reserve as these are the only two that depend on substantial land areas. Thus, the number of these units on the Reserve is limited. For crop enterprises only the 1/4 crop share plan was used because it allowed more individual operators while giving the Band a reasonable level of income.

Soil Survey of Peace Hills Sheet, Experimental Farms Service, Ottawa 1948.

Group	Estimated Acreage	Revision	Revised Estimated Acreage
	nereage		nereage
Arable	5092	- 764	4328
Forage	370		370
Native	759	+ 764	1523
Total	6221		6221

TABLE 23 -	ACREAGE	ESTIMATES	FOR	MONTANA	RESERVE

TABLE 2	4 - PRES	ENT RESC	DURCE C	APABII	LITY Band	
Resources	Farm Units	Farm Capital	Incom Operato	-	Cash Renta \$7.00/ac.	1 Income \$8.00/ac.
		\$000's	\$000's	\$000's	\$000's	\$000's
Crops (3100 ac.)	4.4	165.4	17.2	18.9	21.7	24.8
Livestock (2790 AUM)	1.2	65.1	4.4	4.9	4.9	4.9
Total	5.6	230.5	21.6	23.8	26.6	29.7

Table 24 shows what the Reserve can do presently with no further improvement. The total income to the Reserve is \$45,000 but it requires that someone invest \$230,000. The income is \$15,000 above what could be obtained from renting the arable land at \$8.00 per acre and pasture at \$1.80 per animal unit month.

Table 25 summarizes the income potential of the Reserve if all land were improved to its potential. It was assumed that developing arable land for cropping would cost \$50.00 per acre while developing pasture land would cost \$41.00 per acre. On the Montana Reserve this would mean an investment of \$60,000 to clear and break another 1200 acres of crop land and \$15,200 to develop 370 acres of hay and pasture land. Total investments required to improve the land is \$75,000.

Table 25 shows that 7 families could operate individual units on the Reserve after Reserve lands are developed. Farm investments for the 7 operators would require \$275,000 dollars in addition to the \$75,000 to develop Reserve lands. Total Reserve income would be \$57,600 of which the 7 operators receive \$26,700 and the Band receives \$30,900. Cash rental of Band lands would yield \$38, 100 which is \$7, 200 greater than the Band income from the individual operators but \$19, 500 less than the total Reserve income of \$57, 600.

	Farm	Farm	Incon	ne	Band Inco	me for Ca	sh Rental
Resource	Units	Capital	Operator	Band	\$7.00/ac	\$8.00/ac	\$9.00/ac
		\$000's	\$000's	\$000's	s \$000's	\$000's	\$000's
Crops (4300 ac)	6.0	226	23.4	27.2	30.1	34.4	38.7
Livestock (2073 AUM)	0.9	49	3.3	3.7	3.7	3.7	3.7
Total	6.9	275	26.7	30.9	33.8	38.1	42.4

TABLE 25 - RESERVE CAPABILITY AFTER \$75,000 INVESTMENT TO IMPROVE RESERVE LANDS

Linear Programming Analysis

The objective of this analysis was to determine the enterprise mix for the Reserve if it was operated as a single business unit at varying levels of capital investment. From these data, it was possible to observe some general trends of development.

The enterprise data were obtained from the standard unit data in the first of this report and the following modifications were made:

- Labor was charged to each enterprise at \$1.50 per hour.
 Labor requirements were taken from standards given in the
 1966 Alberta Farm Business Report by L. Bauer.¹
- (2) The beef feeding enterprise was separated into steers and heifers.
- (3) The swine and beef enterprises were fed a ration balanced by the model. Nutritional requirements for each class of stock were obtained from the NRC publications ^{2, 3}.

² Nutrient Requirements of Domestic Animals, Number IV, Nutrient Requirements of Beef Cattle, Revised Edition, Publication 1137, National Academy of Sciences - National Research Council, Washington DC 1963

³ Nutrient Requirements of Domestic Animals, Number II, Nutrient Requirements of Swine, Fifth Revised Edition, Publication 1192, National Research Council, Washington, D. C., 1964.

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¹ Bauer, L., <u>1966 Alberta Farm Business Report</u>, Alberta Dept of Agriculture, Economics Division, Edmonton, p. 25

(4) Additional crops were considered, mainly forage crops.

The linear program analysis of the Montana Reserve with the following rental rates indicated that all the capital would be used to develop a feed lot and the Reserve lands would be rented to outside operators.

(1)	Cultivated land	\$8.00/acre
(2)	Pasture	\$1.80/AUM

It was felt that this would not give development guidelines so the rental rates were reduced to the following:

(1)	Cultivated land	\$5.60/acre
(2)	Pasture	\$1.30/AUM

Figure 3 is a graphic representation of the results of the analysis. Each bar lists all the enterprises and amounts of each. The first two bars group some of the smaller crop acreages into 'other' as follows:

(1)	\$100 thousand invested		
	Barley Hay	-	60 acres
	Grain Silage	-	13 acres
(2)	\$200 thousand inve	ested	

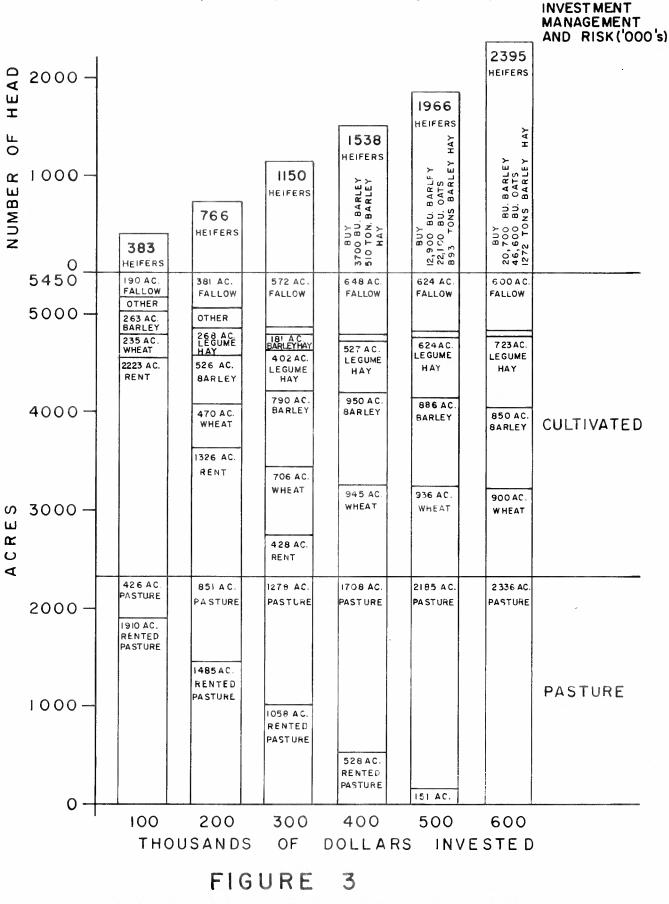
Barley Hay - 121 acres Grain Silage - 26 acres

All the crops grown are used in the feedlot. The feedlot contains mostly heifers on a long term finishing program where they are grown through the winter and fattened in the summer.

The significant trend as more capital is available is that the feedlot is expanded. Only the Reserve land required to supply feed is used and the remainder is rented to other farmers. Further improvement of Reserve lands was not justified because it took valuable capital from the feedlot.

Much of the pasture area is made up of small patches within cultivated areas and would require fencing to be used. This was not included as a cost. If it is too small to fence, then the income to the Reserve should

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\$40

\$60

\$79

\$99

\$117

\$136

RETURN TO

LINEAR PROGRAMMING ENTERPRISE SELECTION FOR VARIOUS INVESTMENT LEVELS MONTANA INDIAN RESERVE NO. 139 be reduced by \$1.20/acre times the numbers of acres not available for renting. The other enterprise selections will not change unless the pasture actually available is less than that required for the feedlot.

The labor requirements at each level of investment are as follows:

Level	Hours (000's)
\$100,000	5.6
200,000	11.0
300,000	16.5
400,000	20.5
500,000	23.4
600,000	26.4

Some individual adjustments can be made to improve the solution. For example, the wheat fed to the cattle may be better sold and the money used to buy barley. This would be done only where the <u>equivalent amount of</u> <u>energy</u> could be obtained from barley at a lower cost. Wheat is used in these programs because it produces more energy per acre.

This analysis presents the optimum return based on the prices summarized earlier in this report. Prices on butcher cattle were substantially higher than the average experienced over the past ten years. This was to provide the returns per hundred pounds of live animal produced that were reported in the Farm Enterprise Analyses for Alberta. Beef feeders are usually more interested in the margin between buying price and selling price than in actual prices as the margin determines the returns. The optimum enterprise combination here involves feeding heifers which is relatively uncertain. Resources must be available to continue the operation when returns are very low. The vulnerability of the operation is reduced by using so much home grown feed. However, feeding skills and marketing skills available will also have a substantial effect on the success of the operation.

Management

Throughout this section, good management has been stressed.

Unless management of a high quality is available, there is little likelihood of any project succeeding. The following quotation¹ summarizes some of the more important aspects of management.

The job of management may be broken into three major phases:

- 1. The management of money;
- 2. The management of things;
- 3. The management of people.

Each of these distinct areas requires specific management skills, knowledge, and interests. The total management job requires a smooth integration of all three phases, and they must be kept in balance; otherwise, the organization as a whole gets into difficulties.

The Functions of Management

So that the whole subject of modern management can be better understood, it has been broken down into five major functions as follows:

I.	Planning;
II.	Organization and staffing;
III.	Direction and leadership;
IV.	Co-ordination;
V.	Controls.

Obviously, these functions are inter-related. It is impossible to treat any one function without overlapping with other functions. For purposes of this study it is intended to deal with those activities which are most apparent in each of the areas indicated above.

The functions of management have been identified by some writers as: planning, organization, integration, and measuring. Other writers call them: planning, organization, directing, and controlling. A number of other concepts closely related to these terms have been published from time to time in various text-books and articles.

The Major Functions of Management

Detailed activities within each of the five major functions of management include many factors, such as:

¹ Carlson, D., <u>Modern Management Organization for Economic Co-operation</u> and Development, Paris, 1962, p. 20

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- I. Planning
 - 1. Trends;
 - 2. Objectives;
 - 3. Policies;
 - 4. Programs;
 - 5. Budgets;
 - 6. Works assignments;
 - 7. Schedules;
 - 8. Growth and expansion;
 - 9. Controls and reports;
 - 10. Improvements.

II. Organization and Staffing

- 1. Organization charts;
- 2. Functional charts;
- 3. Position descriptions;
- 4. Performance standards;
- 5. Job evaluations;
- 6. Qualification requirements;
- 7. Compensation program;
- 8. Staffing and recruitment;
- 9. Relationships;
- 10. Personnel utilization.

III. Direction and Leadership

- 1. Delegation;
- 2. Interpretation;
- 3. Understanding;
- 4. Acceptance of Accountability;
- 5. Training and motivation;
- 6. Discipline;
- 7. Group dynamics;
- 8. Morale;
- 9. Productivity;
- 10. Job satisfaction.

IV. Co-ordination

- 1. Communication: up, down, across;
- 2. Integration of all activities;
- 3. Within the organization;
- 4. Within the departments;
- 5. Between departments;
- 6. Between H. Q. and Field;
- 7. With regulatory agencies;
- 8. With the industry;
- 9. With the community;
- 10. All other relationships.

- V. Controls: ratios, standards
 - 1. Criteria for measuring results;
 - 2. Project desired results;
 - 3. Establish check points;
 - 4. Schedules and time tables;
 - 5. Sequence of importance;
 - 6. Performance appraisals;
 - 7. Remedial action;
 - 8. Work simplification;
 - 9. Audits and reports;
 - 10. Board approvals.

To carry out many of the functions mentioned above, good records are essential. Unless the manager knows what is going on in the business, he can not make rational decisions for the future. Decisions based on guesses usually result in error.

> There are many reasons that an organization may fail to make profits. However, experts agree that incompetent management is the number one cause. Dr. A. M. Woodruff in a study prepared for the Small Business Administration analyzed a number of unprofitable business ventures and contrasted them with the other firms that had achieved a good deal of success. He states:

" None of the failures studied occurred because the firm was small. They all occurred because of a very obvious, easily identified management error. The management error might have occurred because one man was saddled with too much, and didn't have time to devote to his various responsibilities, a situation indirectly associated with the smallness, but in the last analysis, the failure was occasioned by a management error which could have been avoided. "

High on the list of management blunders cited in this same study was failure to provide or require "adequate records". In some instances, the accounting papers were no more than checkstubs and a single entry notebook. Vague notions of accounts receivables and cost position were substituted for accurate records.¹

Nelson, R. H., <u>Management Handbook for Tribal Business Leaders</u>, Bureau of Economics and Business Research, University of Utah, 1965, p. 6.

Many farmers fall into the category mentioned above. However, as will be shown in the next section, these are the people being forces to quit farming. If any Band member wants to be a farm manager, he must be willing to provide the management resources necessary to maintain the production levels achieved by the farmers who supplied the data for:

- (a) The November crop yield estimates,
- (b) the Alberta cow-calf Enterprise Analysis,
- (c) the Alberta Cattle Feeding Enterprise Analysis, and
- (d) the Alberta Hog Enterprise Analysis.

The management requirements can be roughly categorized into decision making abilities and supervision abilities.

Decision making abilities are the qualities necessary to provide the overall management for the farm. The manager must be able to evaluate pertinent information to choose the best alternative for his operation. He must be willing to make the effort to get as much information as possible on the technology available and the risks and uncertainties involved. Once he has the information, he then must be able to analyze it in the light of his financial position and his overall objectives. Once he has analyzed the information he must then make a decision and be able to put his decision into effect. These decisions involve items such as which crops should he grow according to current market restrictions and the capability of his land; when should he buy and sell cattle; when should he emphasize being more efficient in the enterprises currently on the farm; when should he try new techniques.

In summary, the steps in decision making are:

- (1) Clarify the problem.
- (2) Gather all available information.
- (3) Analyze problem.
- (4) Arrive at decision.
- (5) Put the decision into effect.
- (6) Accept the results of the decision, good or bad. This means taking calculated risks to maximize returns, and evaluating the results of every decision after it has been carried to completion.

Once he has decided to take a particular course of action, the manager's supervisory skills are used. This is the ability to organize men and equipment to get the particular job done. On smaller operations, this also involves the skills of operating equipment correctly and efficiently, being able to spot livestock that are not producing, and to correct production problems. The manager must be able to organize operations to meed dead lines as closely as possible, when adverse weather delays him. It is the organizational ability and farming skills which govern the physical production and cost of production for an enterprise. The ability to choose the correct combination of enterprises and the correct time to market is a decision making ability which greatly influences the profitability of the farm operation.

Each farm enterprise requires different skills. Thus the crop enterprise requires the ability to operate equipment and complete the operations on time while the cattle feeding enterprise requires the ability to keep feeders eating high energy rations to maintain weight gains. Lost production occurs whenever the operator does not meet the daily supervisory requirements of the enterprise.

Risk and Uncertainty

The prices used to establish basic farm units were obtained from the enterprise studies conducted in recent years by the Economics Division of the Alberta Department of Agriculture. Love^{1, 2} has published data on the income variability of the grain and cow-calf enterprise which is a guide to the uncertainties involved. Data has been extracted from these reports and from Statistics published by the Alberta Department of Agriculture³ to produce graphs of the price performance of certain farm enterprises for the years 1956 to 1966. The graphs also indicate the price used in the preparation of this report. It is obvious that the average prices experienced over

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Love, H. C., <u>Crop Production Risk in Alberta</u>, <u>Agricultural Economics</u> <u>Research Bulletin 5</u>, University of Alberta, Edmonton, July 1968

² Love, H. C., <u>Income Variation in Beef Production</u>, <u>Agricultural Economics</u> Research Bulletin 1, University of Alberta, Edmonton, January, 1966

³ A Historical Series of Agricultural Statistics for Alberta, Statistics Branch Economics Division, Alberta Department of Agriculture, Edmonton.

the past few years are lower than the prices used in the studies. This is because:

- The enterprise analysis reports have only been done in recent (1)years and the prices are higher than average in this period.
- (2)

The analysis reports obtained data from farm operators who have better than average performance.

Many methods are available to measure uncertainty. The method used here is the average year to year change as a per cent of average price from 1956 to 1966. This is relatively simple and yet accurate enough that it will show price variability. This is not the only factor as yields and costs of production also vary. The remainder of this section will discuss the variability of each enterprise based on: (1) price variability; (2) variable cost as a per cent of total; and (3) production variability. Two sets of data are provided for the enterprise to show the difference between the 1960-66 average and 1956-66 average.

The common crops exhibit low price variability from year to year. However, the weather has a significant influence on the yield so the variability of gross income is probably a better measure. Love¹, in his bulletin on Crop Production Risk in Alberta estimates the gross income year to year variability for Census Division 8 over the past twenty years to be 27.4 per cent of the mean income for wheat and 22.26 per cent of mean income for barley. Figure 4 shows the estimated bushel values given by Love¹ for Census Division 8 and the Wheat Board Price² in Edmonton of Number 4 Northern wheat, 2 Feed barley, and Extra 1 Feed oats. The price variation from year to year is substantially less than gross income variation (6-11%). Many farmers find they can withstand the variation because they have substantial equity in land. This means that the variable costs (labor excluded) in any given year will likely be paid because they represent only above 42% of the

¹ Love, H.C., Crop Production Risk in Alberta, Agricultural Economics, Research Bulletin 5, University of Alberta, Edmonton, July 1968

² A Historical Series of Agricultural Statistics for Alberta, Statistics Branch, Economics Division, Alberta Department of Agriculture, Edmonton

production cost. However the farmer paying rent is more vulnerable because variable costs and 1/4 crop share rental represent about 75% of the cost of production.

Calf prices were hard to find for steers and heifers. Thus several sources are shown in Figure 5 and they were the average October prices. Price variation for steers is about 12 to 17 per cent of the mean. Again production is somewhat variable and the variation in average year to year gross income per cow is somewhat more. The rancher is in much the same position as the crop producer as far as being able to withstand adverse prices. If there were no rent to pay, operating expenses would represent the majority of his required cash flow and this is only 35% of total production costs. However land rental plus operating costs excluding labor represent about 70% of the total costs.

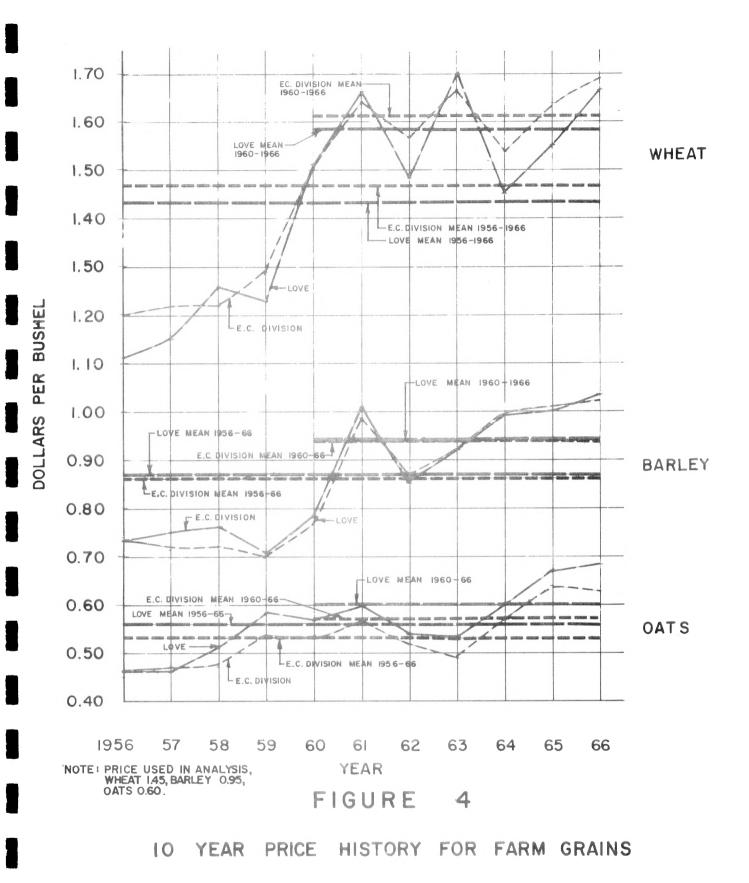
Figure 6 is a summary of the price of slaughter cattle to indicate some price variation for slaughter cattle. Over the period considered, the prices for slaughter cattle have not varied greatly from year to year. However this is often considered a very uncertain enterprise because:

- (1) Feeders are purchased on a market at varying prices and sold on a later market at varying prices. Thus he must buy feeder cattle that may be worth less or more per pound than what he paid.
- (2) Variable costs are 85% of the total feeding cost when labor is not included in costs.
- (3) About 55% of gross returns represent money spent to obtain the livestock.

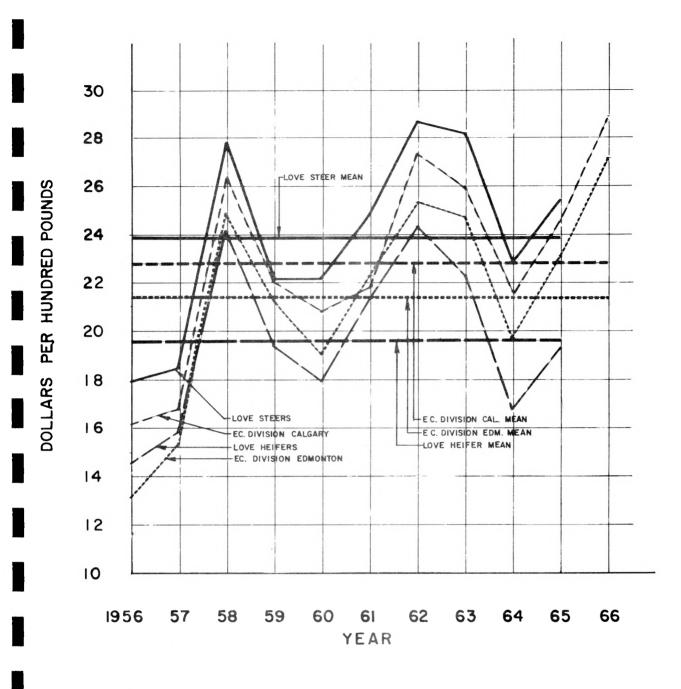
Thus even though price variation is not substanital, it can make a large difference in the final analysis.

Figure 7 shows the price performance of Grade A hogs. The average price is lower than that used in the analysis because of the influence of recent years on the data in the farm analysis reports. This enterprise is probably comparable to cow-calf as far as income variability is concerned. However variable costs are about 83% of total costs (excluding labor). Thus

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SOURCE: LOVE, H.C. CROP PRODUCTION RISK IN ALBER AGRICULTURAL ECONOMICS, RESEARCH BULLETIN 3, UNIVERSITY OF ALBERTA, EDMONTON, JULY 1968. A HISTORICAL SERIES OF AGRICULTURAL STATISTICS FOR ALBERTA, STATISTICS BRANCH, ECONOMICS DIVISION, ALBERTA DEPARTMENT OF AGRICULTURE, EDMONTON.



NOTE PRICE USED IN ANALYSIS, STEERS 25.00, HEIFERS 20.00.

FIGURE 5

IO YEAR PRICE HISTORY FOR CALVES AT SELECTED LOCATIONS IN ALBERTA

SOURCE : LOVE, H.C. CROP PRODUCTION RISK IN ALBERTS AGRICULTURAL ECONOMICS, RESEARCH BULLETING, UNIVERSITY OF ALBERTA, EDMONTON, JULY 1968. A HISTORICAL SERIES OF AGRICULTURAL STATISTICS FOR ALBERTA, STATISTICS BRANCH, ECONOMICS DIVISION, ALBERTA DEPARTMENT OF AGRICULTURE, EDMONTON.

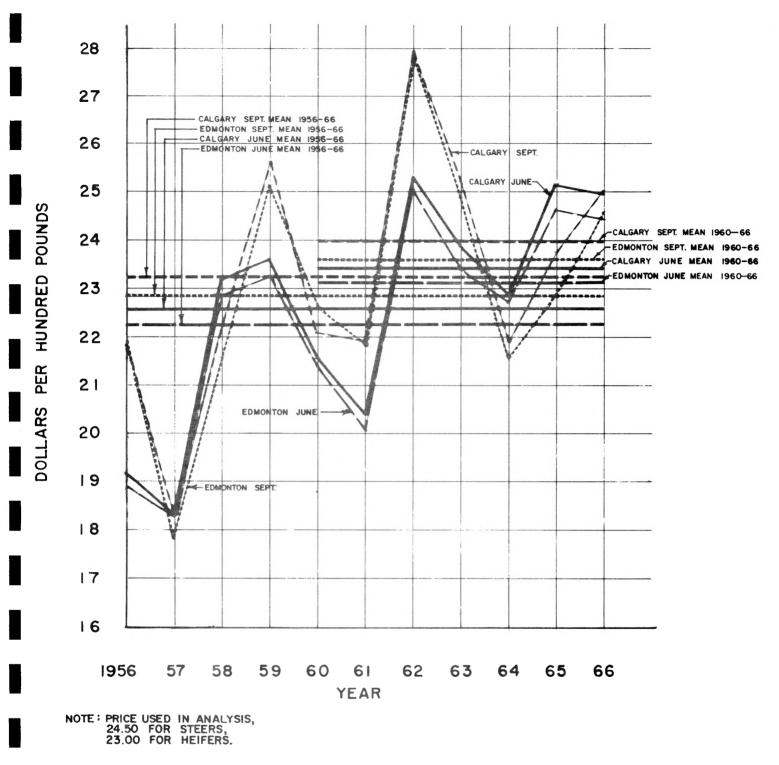
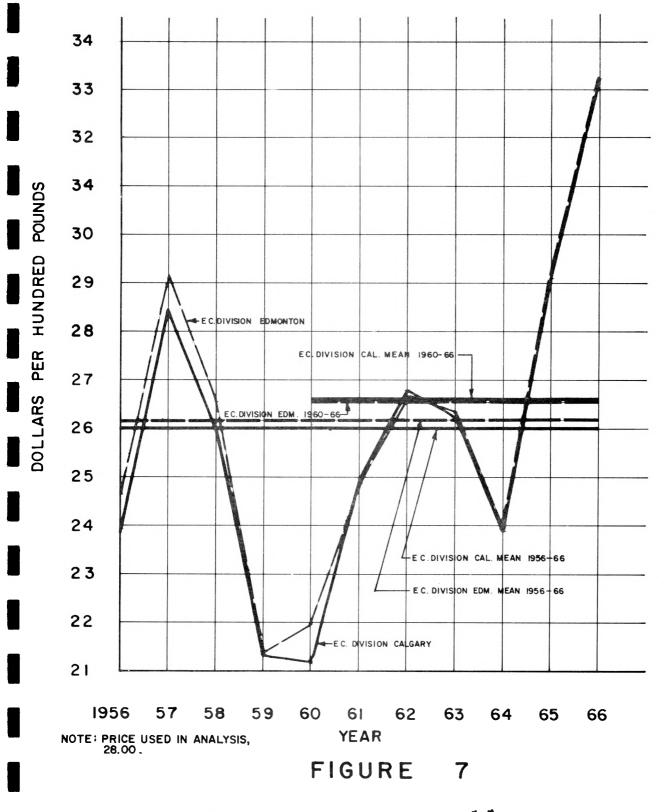


FIGURE 6

IO YEAR PRICE HISTORY OF CHOICE BUTCHER STEERS IN JUNE AND SEPTEMBER ON EDMONTON AND CALGARY MARKETS



IO YEAR PRICE HISTORY OF GRADE "A" HOGS IN ALBERTA

SOURCE: A HISTORICAL SERIES OF AGRICULTURAL STATISTICS FOR ALBERTA, STATISTICS BRANCH, ECONOMICS DIVISION, ALBERTA DEPARTMENT OF AGRICULTURE, EDMONTON. the hog producer may be more vulnerable than the cow-calf operator. Production variability in this enterprise is largely dependent on the operator.

PRIMARY RESOURCE DEVELOPMENT

There are no proven reserves of oil or gas within the Montana Reserve. Stanolind Montana I. R. "A" No. 1 (LSD. 10-22-43-24 W. 4M) was drilled in 1954 to a total depth of 6,605 feet, finishing in the Cooking Lake formation. No shows of commercial importance were encountered and the well was abandoned. Gage KMG Sampson 7-28-43-24 (W4M) was abandoned in November 1968 at a total depth of 5,110 feet. No geological information or testing results have yet been released by the operator.

Regional subsurface mapping indicates the presence of a paleotopographic high on the eroded surface of the paleozoic in the southeastern part of the Reserve, in the vicinity of the Stanolind well mentioned above. The best prospects for oil and gas on this Reserve appear to be in the various cretaceous sands. Structural traps may be formed in the sands where they are draped over paleotopographic highs. Stratographic traps may also be formed on the flanks of these highs where porous sands pinch out or abut against the highs.

Sand occurs in dunes in Section 27 which could be of high quality except where sod lines are present. This sand could be used for building purposes.

Gravel occurs in Section 29 and could be used for road maintenance.

The pre-glacial Red Deer River Valley underlies part of the Reserve. Water from the gravels in this old buried valley will probably be harder or more mineralized than bedrock water but supplies of up to 1 million gallons per day are possible. Depth to bedrock above which the gravel may be deposited should be 100 feet or less. The presence of the old Red Deer River channel with its aquifer potential is an important factor in the economic inventory of the Montana Reserve. Other near-surface economic materials are not known to be present.

Map No. 3 indicates the surface geology of the Montana Reserve, and shows the location of the wells mentioned above.

FORESTRY DEVELOPMENT

There are presently approximately 750 acres under tree cover on the Montana Reserve consisting of 95 per cent poplar. The poplar ranges in diameter up to 16 inch breast-high, with an average of 4 inch breast-high, and in height up to 71 feet with an average of 35 feet. Growth rate averages one foot annually. These poplar stands average 960 trees per acre. Quality is poor due to the fact that heart rot sets in at an early age and the form of the trees is degraded by crooks, scars and branches.

The white spruce range in diameter up to 16 inches breast-high with an average of 9 inches breast-high, and in height up to 82 feet. Growth rate averages up to 9 inches in height annually. The trees are vigorous and healthy, although heavily limbed due to their open growing situation.

Apart from a possible local fence post market, the market potential for the present tree growth on the Reserves would appear to be nonexistent. The Reserve does however contain limited contain limited areas which are eminently suitable for development of a forestry industry. Such an industry could take three possible forms.

- (1) Production of shade and ornamental trees.
- (2) Production of Christmas trees.
- (3) Production of pine fence posts.

Economic analyses of the three possibilities suggested above indicates that only the production of shade and ornamental trees bears any promise. This operation will yield the fastest and highest rate of return per acre and the market for these trees is good. It must be noted however that such an operation requires rich soil and considerable care.

The area in the Battle River Valley offers land suitable for such an enterprise. The valley is from 300 to 1,000 feet wide and has some choice land in the loops of the river. The soil is rich, moist, and generally well drained. The main drawback is the danger of flooding, which could be avoided by dyking and possibly some draining.

Raising of shade and ornamental trees requires a significant amount of care and labor. This includes planting, pruning, transplanting, soil cultivation, fertilizing and treatment against insects and disease. Finally the trees must be lifted, balled and burlapped when sold.

The trees can be sold when they reach 3 to 4 feet in height. This is usually 5 to 6 years after the seedlings are planted, (assuming 3 year old seedlings). Seedlings may be purchased from a reputable commercial nursery, or from the Provincial Tree Nursery at Oliver.

The trees sell from \$4 to \$15 each depending on species, height and quality. Blue Spruce appear to be the most desirable specie, having regard for market and local growing conditions. They can be sold to municipalities, wholesalers, landscape contractors and retailers as well as to individuals from cities, towns and farms. The excellent access to the Reserve through major highways indicates the possibility, in the initial stage, of a selling station on the nursery. Buyers would come to select their trees, the seller lifts and burlaps them, and the buyer hauls them away. Such a program would require a substantial advertising program. Table No. 26 illustrates the economics of a 30 acre nursery.

TOWNSITE DEVELOPMENT

It is recommended that the Montana Band co-operate with other Bands on the Hobbema Reserves in the detailed investigation of the desirability and economics of development of an Indian community at Hobbema. A preliminary discussion of the implications of such a development are contained in the Four Band Report.

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TABLE 26 - PRODUCTION OF SHADE AND ORNAMENTAL TREES

Economics of Six-Year Growth Cycl	le; Five Acre	s Per Year
Initial Investment:		
Hand tools and material Power Sprayer-Duster Fencing	s \$100.00 300.00 <u>100.00</u> \$500.00	
Costs Occurred Once in Six Years:		
Site preparation Seedings Labor	\$250.00 750.00 650.00	,
Annual Operating Costs	\$ 1,650.00	\$1,650.00
Annual Operating Costs:		
Rent of tractor and tille (including operator) Insecticide, Fungicide, Herbicide Fertilizer Labor Depreciation allowance Interest on Investment	320.00 100.00 50.00 600.00 100.00 140.00	
	\$ 1,310.00	
Total operating costs over six years	s (1,310 x 6)	<u>\$7,860.00</u>
Total expenditure over six years		\$9,510.00
Income: assuming sale of 250 trees per acre at \$9.00 per tree		\$11,250.00
Net return to Management		\$ 1,740.00
This is equivalent to \$58.00 per acre per year (Note: labor estimated at \$2.00 per hour)		

SUMMARY AND RECOMMENDATIONS REGARDING PHYSICAL DEVELOPMENT

Agriculture

Two basic alternatives are available for reasonable agricultural development.

 Develop 7 family farms as outlined in a previous section of this report. This would require a capital investment of \$275,000, plus an additional \$75,000 for clearing. Such an operation would return a total of \$57,600 to the Reserve in labor and management wages plus band revenue.

(2) Develop a Band farm based on a feedlot operation which would require farming of sufficient area to supply feed for the cattle operation, with the balance of the Reserve being leased to white farmers. Such an operation with a \$300,000 capital investment would return a total of \$107,000 to the Reserve for labor and management and would employ the same number of people as in (1) above.

On the basis of the above, it is recommended that a Band farm be developed in accordance with (2) above for the following reasons:

- (1) Although the risk involved in a feedlot operation is relatively high, the possible increase in revenue more than compensates for the risk factor. Furthermore, a Band operation would justify the use of an experienced manager who would tend to have a modifying effect on the risk factor, whereas the "family farm" alternative could not conveniently involve a manager and would therefore have an increased possibility of failure.
- (2) The Band farm situation would be more amenable to a training program whereby young Band members could be employed to gain experience which could be utilized elsewhere.
- A Band farm corporation would have less difficulty in obtaining the necessary capital than would individual family farmers.

All of these recommendations imply changes to the existing system of land tenure. This subject is discussed in Section 6.

Primary Resource Development

With the exception of the groundwater potential and sand deposits there appears to be no potential resources on the Reserve that have not already been exploited. The major gravel deposits on the Reserve have been surrendered for lease management by the Crown.

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Industrial and Commercial Development

These areas are discussed in the Four Band Report.

Forestry Development

It is recommended that, as part of the Band farm recommended above, and assuming a sincere expression of interest by at least one reliable Band member, a tree and ornamental shrub operation as previously discussed be initiated. This operation could use small plots of land in the river valley. Development in conjunction with other Band farm operations would allow joint usage of equipment and hence lead to desirable economies. It is suggested that the operation start as a 30 acre unit and be increased in size as market potential is confirmed. Initial retail sales should be limited to on-site sales, with balance being wholesaled to municipalities and landscape contractors. If conditions are appropriate retail sales could be expanded in future years.

- 68 -SECTION 5 - SOCIAL DEVELOPMENT

GENERAL SOCIAL THEORY ON THE TWO MAJOR PROBLEMS AT HOBBEMA

Band members on the four Reserves at Hobbema are facing two major problems at the same time. The first and perhaps the biggest problem is that they are a minority group which society has set apart through legislation and by means of discrimination. The second main problem is that the Reserves' only labor demand at the present time is in the field of agriculture, which requires more capital and less labor each year.

Minority Group Problems

The Canadian Indian is a member of a minority group, and as such he is often the target for prejudice. For the Indian there are two closely related but distinguishable consequences of prejudice. These are:

- the effect of prejudice on the personality traits individual;
- (2) the effects of prejudice on the structures and processes of the minority group^1 .

Since the personality of an individual is nearly developed by the time he is fifteen years old, to explain or judge the behaviour of the adult without a full understanding of his childhood experiences is to miss basic causes. If the dominant elements of North American society or any other society isolate a segment of the population from contact with prevailing norms and prevent that segment from sharing in the rewards which accrue to the adherence to these norms, the appearance of a subculture with different motivations and standards of conduct should not come as a surprise².

> There is a sense of pessimism among the people. The young feel that they must or will fall into the same patterns as their elders. Sociologists tell

¹ Simpson, G. E. and Milton Yinger <u>Racial and Cultural Minorities</u>, (New York: Harper & Row, 1965) Page 130

² Tremblay, Marc-Adelard, and Walton J. Anderson Editors <u>Rural Canada</u> in Transition (Agricultural Economics Research Council of Canada, June 1966) Page 137.

us that the aimless living, laziness and uncleanliness found on many Reserves is not the fault of the Indians but comes from the normal frustration of minority groups faced with low income living¹.

Certain Canadian policies established for all Indians have contributed to the frustration of Indians as minority groups faced with low income living². Reserve living, for example, tends to isolate the Indian, keeping him constantly aware of his minority group status and forcing him to miss any socio-economic opportunities open to the dominant group. He often feels insecure, an insecurity caused by prejudice which an Indian encounters from childhood.

> In every region of Canada I found a deep-rooted prejudice against them, a prejudice that was stronger in some places than others but one which was noticeable everywhere from Atlantic to Pacific. It was the strongest in the West.³

You understand the Indian people better when you realize that they live in constant fear of prejudice and that they have no united front against this terror because they live (or were bought up) on socially isolated Reserves⁴.

Moreover, the Indian Act segregated the Indian population, giving them separate laws with a separate government branch to administer them. Indian leaders have been left with little responsibility and no authority. There is little local tribal government left, and therefore no leadership or leadership training on the Reserves. Adequate education is a prerequisite of any leader, and an Indian dealing with educated government employees should have enough formal education to communicate with them on an equal basis. But the men who should be taking over the tribal leadership haven't received

1 Mulvilhill, James, <u>The Dilemma of Our Indian People</u> (Le Droil, Ottawa Page 21

4 Mulvilhill, James, opcit, Page 5

² ibid., Page 137

³ Jenness, Diamond, Canadian Journal of Economics XX (1954) Page 95

an adequate education. One possible explanation for this lack of education may be found in the following excerpt from a letter written in 1940 by a member of the Department of Indian Affairs.

> The Department doubts the advisability of encouraging the older pupils along academic lines. Under the circumstances, the books required are not being supplied. It is felt that when pupils reach the age of 12 or 14 years the school management should emphasize vocational rather than academic training for the Indian students.

A closer look at the so-called "Indian problem" is called for.

If their diet was deficient, their health poor, their housing unsatisfactory, it was the fault of the white man, they said, and the white man's government should set things right. So it came about that an atmosphere of mingled apathy and discontent settled on the Reserves, and it was apathy that dominated¹

Thus a "segregation camp" mentality is slowly built up. The feeling of apathy, mentioned by Jenness, is one of the most serious aspects of what is most commonly referred to as the "Indian problem". Laskin breaks the problem down into three categories: Cultural-ethical; biological; and motivational². The cultural-ethical aspect concerns the decision by Indians to retain as much of their culture as they wish, or to transform themselves into average Canadians. The biological part of the problem is very simple. The Reserves are becoming, or are, overpopulated.

A solution for the motivation part of the Indian problem is the most difficult to foresee. A great deal of research has been dovoted to the source of achievement motive, the readiness to work and postpone immediate satisfactions in order to get ahead. Three generalizations can be made on the basis of the data gathered:

- (1) class is more important than race or ethnic group in determining the strength of the achievement motive;
- (2) an important line of demarkation can be drawn between lowerlower and upper-lower class (a line of special significance among non-whites);

¹Jenness, Diamond, opcit, Page 98.

²Laskin, Richard opcit, Pages 87-88

(3) the desire for achievement is not always arcompanied by the expectation of achievement¹.

In the attitudes of shame and apathy that prevail on many Reserves, one can see that the achievement motive no longer exists for many Indians. Their attitude can easily be traced to its origins:

- the collapse of their traditional tribal culture with its unique values, symbols of achievement, socialization stages, structuring of motivation and meaning of life that is involved;
- (2) the introduction of white man's religion, education, generally his norms, which often condemns as diabolical and pagan the Indians' culture, or simply ignores it as unworthy of official acknowledgement;
- (3) the encounter with jobs and wages involving new skills and work disciplines which, because they were initially difficult to master, earn for the Indians the stigma of lazy, stupid and good-fornothing.

Thus, for many the Reserves have become havens from loneliness, contempt, and the failures associated with outside life. The Reserves have become sanctuaries that offer subsistence and relief rations, perhaps shamefully but stoically received².

The Rural - Agricultural Problem

Agriculture throughout Canada is undergoing major changes. Technology is the main force causing the changes. The main effect of the changes is that a smaller proportion of farmers are producing a larger portion of the total agricultural product. In 1961, 10 percent of Canadian farmers produced 45 per cent of the value of all farm products sold and 46 per cent of the farmers produced 10 per cent of the value of all farm products sold. These figures can be divided another way, 55 per cent of Canadian farmers produced 90 per cent of the value of all farm products sold and 45 per cent of the farmers produced 10 per cent of the value of all products sold. These figures can be divided another way, 55 per cent of Canadian farmers produced 90 per cent of the value of all farm products sold and 45 per cent of the farmers produced 10 per cent of the value of all products sold $\frac{3}{2}$. The fact that many farmers cannot or will not keep up with technol-

- 2. Laskin, Richard, opcit, Pages 87-88
- 3. Tremblay, Marc-Adelard, and Walton J. Anderson, Editors, opcit Page 180.

^{1.} Simpson, G. E., and Milton Yinger, opcit, Page 145.

ogy means that they are being forced out of agriculture. In 1901, over 66 per cent of Canadian population were farmers. By 1961 only 10 per cent of Canada's population were farmers 1. The situation on the prairies where the Hobbema Reserves are located is not quite as dramatic. In 1931, 50 per cent of the population on the prairies were farmers. By 1961 this figure had dropped to 24 per cent². The above figures give a comparative picture of agriculture with the rest of society. In absolute numbers there were approximately 23, 700 fewer people on farms each year in Canada³. In the period 1961 to 1966 an annual average of 960 farmers quit farming in Alberta. This means there is a percentage drop of 5.2 per cent each year for the number of farmers in Alberta, or 1 in every 20 farmers quits farming each year in Alberta⁴.

All of the above means that some farmers and nearly all of their children are moving to the towns and cities. This action involves far more than the physical movement of resources. It involves the process of urbanization. Urbanization means more than the establishment and growth of towns and cities.

> " Urbanization means a structure of common life in which diversity and the disintegration of tradition are paramount. It means a type of impersonality in which functional relationships multiply. It means a degree of tolerance and anonymity replaces traditional moral sanctions and long terms acquaintanceships⁵.

In an urbanized society the challenge is not primarily one imposed by nature nor are natural controls significant in influencing behaviour. The challenge and controls which influence the actions of the urbanite are social, that is, they are man's own creations. The urban dweller must orient himself to social objects, and the cultural, institutional, and psychological

- 1 ibid, Page 9
- 2 Ibid, Page 12
- 3 Dominion Bureau of Statistics
- 4 Tremblay, Marc-Adelard, and Walton J. Anderson Editors, opcit, Page 10
- 5 Cox, Harvey, <u>The Secular City</u>, (New York MacMillan Company 1965) Page 4

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of this orientation serve to distinguish urbanized from ruralized society¹. In a completely rural society, the non-social environment is the major independent variable, the social environment being primarily an effect rather than a cause. In a completely urban society on the other hand, the non-social environment is only incidental, the social objects which man confronts significantly influence the social interactions in which he engages. Thus Durkheim's dictum that we should seek the cause of social facts in preceding social facts becomes more cogent as technology reduces the relative significance of nature and rationalization increases that of social organization².

Urbanization is the dominant social force in our society today. It is important then that we remember the statement previously made that "Urbanization is based on the process of technology". Scientific knowledge or progress, which has brought about technical progress or technology, has, because it was forceful and broad, given rise to a civilization based on knowledge. Thus, urbanization is based on knowledge. Knowledge, because it is all inclusive or tries to be by nature, has far-reaching effects on any society which adapts the majority of its functions to knowledge. Thus a civilization that is characterised by knowledge seeks to be all embracing, that is, to encompass the entire society in which it is developing and to leave its mark on every group which helps to make up this society. Any group which does not keep up with technology or knowledge soon finds itself at an extreme disadvantage in an urbanized society. Thus a farmer who does not keep up with the technology soon finds himself at an economic disadvantage. But this is not the only disadvantage he finds himself at. Socially and culturally he becomes more and more distant from what is happening in the rest of urbanized society. The farmer who does not keep up with technology will be forced

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¹ Wirth, Louis, <u>Urbanism As a Way of Life</u>, American Journal of Sociology, Vol. 44 (July 1938)

² Durkheim, Emile, <u>The Rules of Sociological Method</u> (New York: The Free Press of Glencoe, 1950) Page 110

off the farm due to economics, but it may be anticipated that rural inhabitants moving to urban areas with their original inadequacies will not find their situation improved merely because they have migrated. On the contrary, they may encounter additional difficulties in an environment with which they are not familiar¹.

Inherent in the urbanization concept is the idea that modern man is convinced he can control nature. He will be inclined to trust power or authority to that person he believes is best qualified to govern. Power and authority will not be based on someone's good will, but on his ability to judge the situation rationally and subsequently take or indicate the most effective means of solving the problem. However, because of the importance of science, in our modern society, education is perhaps the only means of becoming competent to eventually assume power, and where need be to contest someone's right to it. To quote Fortin "To become a fullfledged member of this society the individual must have ever increasing access to scientific knowledge".

The Hobbema Indians are subject to the same pressures as the white, vis-a-vis agricultural technology.

THE ROLE OF COMMUNITY DEVELOPMENT

Community development in this section will be defined as:

The process by which the efforts of the people themselves are united with those of the government authorities to improve the economic, social and cultural conditions of the communities, to integrate these communities into the full life of the nation and to enable them to contribute fully tonational progress.³

- Tremblay, Marc-Adelard, and Walton J. Anderson Editors, opcit, Page 401
- 2 ibid, Page 386
- 3 Mehta, B., <u>Thoughts on Community Development Khrukshetra X11, 1964</u> Page 2.

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It is important to keep in mind that one is working with the community as a unit; it is the community that is to be integrated into the life of the nation, not the individual that is to be extracted from the community by some aspect of community development process. The word "process" refers to the progression of events that are planned by the participants to serve goals they progressively choose. The events point to changes in a group and individuals that can be termed growth in social sensitivity and competence.¹ This process usually follows a fairly definite pattern if it is successful. There are six major stages in the process: exploration, organization, discussion, action, new projects, and finally continuation².

During the exploratory stage as much information as possible is gathered about the community. This information should include social and cultural attributes of the community, history about past projects, activities presently occuring, some data on the physical resources of the community, and those problems that people feel are most pressing.

During the organizational stage the few really interested people hold many formal and informal discussions until they reach the point of committing themselves to work on a problem. This is usually a very small group referred to as the necleus. After this nucleus has committed itself, the discussional stage is initiated. As many people as possible are involved in the discussions of the problem. This is perhaps the most important single stage, for if the general community does not feel that they have had a part in the decisions, they may not involve themsleves actively in the project. Usually outside help is brought in to give technical advice, but final decisions must be left to the community.

1 Biddle, William W., and Lauriede J. Biddle, <u>The Community Develop-</u> <u>ment Process</u> (New York: Holt Rinehart and Winston), Page 79.

2 ibid, Page 79

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Action follows decision. In this stage people work on their own ideas to successfully change and develop the community. With success come self confidence and pride. If this stage is successful, the people are ready to go on to the next stage of developing new projects. Hopefully the community will develop a pattern for future problem solving which will build a strong community and in turn, strong people¹.

SOCIAL DEVELOPMENT ON THE RESERVE

A person's attitudes and aspirations are molded mainly by the society in which he lives. Many of the people on the Reserve appear dissatisfied with their present environment. To solve some of the existing problems, changes must occur on the Reserve. The members of the Reserve must work out for themselves what their goals will be. Any outside group can only show the vehicles available to achieve the goals which the band has decided on. If the Band accepts outside goals, the chances of the changes that will take place being what the people want, and the chances of the success of an overall program are very small. Any change that takes place on the Reserve must take into account existing social and physical situations and start working from that point. Throughout this report, alternatives are put forward, but it must be kept in mind by all Band members that only they may choose where they want to go and which vehicles to utilize to achieve their goals.

The following are some of the vehicles of change which the Band might consider in the achievement of their goal of making the Reserve a better place to live and a better place for their children to grow up.

Town Development

One of the things to consider is the possibility of a town where Band members from all four Reserves can come to live. Young people have consistently mentioned the lack of recreational facilities available to them

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¹ Nelson, Lowery, Charles Verner, Coolie Verner, <u>Community Structure</u> and Change, (New York: MacMillan & Company 1962) Page 441

on the Reserve. If a town were developed, the pooled resources of the four Bands would allow provision of adequate recreational facilities such as a covered rink, and swimming pool. A professional recreational director could be hired to give the young people weekly and weekend activities. At the present time a great deal of money is being spent on recreation by the four Bands, yet judging from the dissatisfaction of the young people, this money is not being spent efficiently.

Those Band members living in a town would be able to take advantage of various courses and social activities without encountering the transportation problems which presently hinder attendance of functions; similarly the communications problem presently existing would be partially eliminated. Because of the proximity implied by residence in a town, it would be far easier for Band Council members and others who may have ideas they might like to put forward, to be able to contact the Band members. Through diversified housing and a planned program of housing construction within a town, the current overcrowding situation could be alleviated.

At present, most Band members obtain necessary goods and services from either Ponoka or Wetaskiwin. If a town were developed, retail and service outlets could be established so that members could obtain all necessary goods and services in their community thus reducing transportation costs and providing employment for many Band members. Development of a town would also alleviate the problem of police protection, which is now made difficult by the dispersed pattern of residences.

One further aspect of town development deserves serious consideration. It is an accepted fact that the young people on the Reserve must look to large towns and cities for higher education and for good job opportunities. A child who is brought up in an urban environment which would be created by a town at Hobbema will find it far easier to adjust to the pressures of living in a city than would a child raised on a farm. Thus the town may be considered as a training ground for urban living.

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Farming

Farming is another vehicle which may be considered in making the Reserve a better place to live. If a Band farm is started, it could be a good training centre for the young men who wish to learn better work habits and attitudes. In addition, it could prove a useful training ground for those who want to try farming on their own or who want to leave the Reserve and work with farmers in the surrounding area.

Incentive Wage Scale

Employment will be a major concern of any development scheme on the Reserve and one of the primary considerations in this area must be the wage scale. At the present time most Band projects pay a flat rate for as long as the individual works, unless he gets a promotion to foreman status. One vehicle which should be considered in an attempt to achieve greater interest on the part of Band members is an incentive pay scale. Many Band members feel that the present system is highly unfair. It has been suggested that for any Band project, the minimum pay should be \$1.50 per hour rising rapidly to \$1.75, \$1.85 and up to \$2.00 by the end of the first year. Such an increase in pay would be based on the individual showing up regularly for work, and not being late. After the \$2.00 level is reached, at the end of the first year, his increases in pay would be based solely on his increase in production, the interest he shows in his work, and on his ability to demonstrate increasing efficiency. It is felt that the current low wage rates provide no incentive towards responsibility and good work habits. It is felt that a higher wage rate will be regarded as something to be proud of, and will result in a better quality of work and in better work habits.

Day Care Centre

A properly run and well organized day care centre would allow women to become available for employment. It is felt that by allowing these women to work, they might play a far more responsible role in development of the Reserve. Another employment factor to be considered

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is the provision of summer work projects for students. At the present time there is very little for the students to do in their summer holidays and on weekends during the school year. It has been suggested that the young people may be employed in the general maintenance and cleanup of homes and yards on the Reserve. This would apply particularly to the homes of the older people who are not able to do this kind of work themselves.

Youth Employment

Several older people have mentioned that they would like to garden but there was no way to get the land broken up in the spring. It has been suggested that a boy with a small tractor with a rototiller attachment could go around to the houses on the Reserve and plow up the yards or garden areas so that gardens could be planted. Girls could seed and help with weeding throughout the summer. Not only would this supply employment but it would help to cut the cost of food for the older people during the winter months. Such a project would have two beneficial results:

- it would employ the young people and help them develop some pride in the Reserve;
- (2) it would make the Reserve a better place for the older people to live.

Bus Service

Several people have expressed the requirement for a bus service which would service the Reserve and provide transportation into Wetaskiwin or Ponoka until such time as shopping facilities are available in Hobbema. Such a bus service would allow the older people to get into town to buy groceries and would cut down the expense of hiring taxis. A bus system would also allow the younger people to get to recreational and sports activities in the evening which they now can not attend due to lack of transportation. The bus service would also be used to transport workers to their place of employment. It would appear that enough people require transportation during the winter months to make a bus system a desirable venture and may be economically sound assuming use of school buses during idle hours.

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Band Council

The Band Council is going to have to consider very seriously its function in the future. At present, the Band Council is thought of primarily as a Welfare unit. Added to this is the problem that most of the Band Council's time is spent on small detailed items and very little time is left for policy making and communication with the Band members on what is being done and what is being proposed. To help alleviate these problems, there are two suggestions which may be considered by the Band. The first is that a Development Corporation be set up in conjunction with the other three Reserves (Refer to Section 7) This board's function would be the organization, administration and initiation of all development projects on the Reserve. Another suggestion which has been made to alleviate the problems of the Band is that a Band manager be hired for all of the reserves. This Band manager would help with a lot of the administrative detail which is tying up the Band Council at the present time. The Band manager's prime responsibility might be as follows:

- Supervise the activities of the Band staff, and ensure that all Band records are kept in such a manner as to allow their use as decision-making inputs;
- (2) To effectuate policy decisions made by Council;
- (3) To supply technical and research assistance as required by Council.

Council business is big business. To achieve some degree of efficiency a much more functional operation has to be developed. It is suggested that a Band manager would probably be the easiest solution to the problem and perhaps the most effective.

Religion

Religion is an important part of the Indian community. At the present time the uncoordinated activity of the various churches on the Four Reserves is resulting in a great deal of wasted time, personnel and money. It is suggested that the community's religious leaders get together and help the community achieve its goals by a demonstration of co-operation between the various churches. Such cooperation is particularly necessary in regard to youth activities and recreation.

Recreation

The lack of employment on the Reserve is resulting in serious social consequences which are going to become worse as time goes on. These consequences may be partially alleviated by the development of a good adult recreation program on the Reserve. To help achieve this, it is suggested that a good recreation director be hired by the Four Band Council to initiate overall recreation programs and, where needed, individual recreation programs on each Reserve. The program to be developed should be as all-inclusive as possible. Because of the severity of the winters in this area, it is suggested that the Four Bands pool their resources and develop an arena in the town. Considering the amount of money being spent on the outdoor skating rinks by all four Reserves, and the amount of money being spent on their maintenance and upkeep, it is felt that with a little additional financial input a proper arena could be constructed which would be usable in all types of weather and would prove a great asset to the Reserve. This of course fits in with the town concept and perhaps further recreational facilities could be provided in the same building, such as a swimming pool, gym and other facilities. The facilities in the school should not be duplicated, but they should be used in conjunction with the additional facilities to be provided in the recreation centre. Until such time as these facilities can be made available, it is suggested that far more use should be made of the school gym.

Communications

One factor which all Band members should consider is the poor facilities available for disseminating information throughout the Reserves and to the outside community. Band members must make a special point of going out of the Reserve and talking to non-Indians about the Band and the Reserve. Whites need to know far more about the Reserve and the object-

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ives of Band members if they are to help the Band in achieving its various goals. At the present time, most of the information which the white community has about the Reserve is based on gossip and half-truths. It is up to the Band members to correct this; no one else can do it. One method that the Band might consider to help spread information outside the Reserve, and in it as well, is to place a 15 minute radio program on CFCW which tentatively could be called the "Hobbema News". This program could be devoted to telling what is happening on the Reserve, what the plans for the future are, how they plan to achieve their objectives, and how the rest of the society surrounding the Reserve can help, and how they will in turn be helped. The Bear Hills Native Voice is another excellent vehicle for spreading information and news about the Reserve, not only on the Reserve itself, but off it as well. Copies should be made available to the local member of Parliament, the MLA, and to various interested groups in Hobbema, Ponoka, Wetaskiwin and Edmonton.

Development of Awareness

To help make the Band members more aware of their own Reserve and the situation on the Reserve, it is suggested that an essay and picture contest be initiated. These contests would have two parts; the first would be to see who could most accurately describe the Reserve, both in picture and in essay form; the second part of the contest would be to see who could come up with the best ideas to improve the Reserve and how these improvements could be achieved. This portion would be primarily in the form of essays. Pictures of previous and present improvements with sketches of possible future improvement would be quite acceptable. This contest would be open to all Band members with various categories for adults, high school students, junior high students and public school students. It is felt that when neighbours start comparing notes on how they are going to improve the Reserve and start thinking about the problems involved, the first step in a development program will have been achieved.

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Band Participation in Development

The following are suggestions for overall social development on the Reserve. The first thing to consider is making the people fully aware of the present situation on the Reserve. This awareness program will have to be initiated by an outside group who spend the time required to make personnel contact with all Band members. Depending on the resources available, the time required for this stage of the process can be anywhere from six months to three years. One could then expect that groups could form with special interests in development and other aspects of growth on the Reserve. It is expected that recreation groups, special interest groups, and hobby groups will form to discuss the manner in which they might best contribute to the development of the Reserve. The next step could then be for the groups to collect and analyse all of the available information regarding developments and procedures on other Reserves and in other similar areas throughout the world, and compare these with their own situation to test their possible application to their own situation. Once the initial groups have arrived at their own conclusions, it would then be appropriate for an overall program to be drawn up which would combine the conclusions and recommendations of each group. It is essential that a total program be developed for the implementation of projects rather than on a piece meal basis as at present.

Resource Personnel

Equally important is that an adequate group of resource people be made available. These people will be observing the development process continuously so that they can provide assistance where needed. It is essential that the resource people do not take over the program, but rather assist the Band members in formulation of their own program. Only people who are willing to work within this frame of reference should be considered as resource people. It is essential that the resource people have adequate financing and resources available to them at all times so that they can provide assistance when needed. This implies that the government agencies and regulations must have been cleared to the point that, when Band members are

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ready to take action, the resource people and financing can move with them and not hold them up. It would be disastrous to the entire development process to tangle the proposed program in bureaucratic red tape for a lengthy period of time, after having achieved a high degree of involvement on the part of Band members.

SOCIAL IMPEDIMENTS TO PHYSICAL DEVELOPMENT OF THE MONTANA RESERVE

Population

The population density of the Montana Reserve is more than three times greater than the density of the farm land immediately adjoining the Reserve, and thus it is apparent that the Reserve is overpopulated in terms of its agricultural resource base. It may be further noted that, on the basis of current population projections, the 1984 density on the Reserve will be approximately one person for every thirteen acres. The projected population increase will inevitably place an even greater strain on the natural resources of the Reserve and the income available from them.

The large families which are the cause of this rapid population increase make it extremely difficult for any of the Band members to save money. Any development scheme which takes place on the Reserve will have to rely on outside financing or financing from the Band Council. As the population increases, a greater percentage of Band funds will go towards welfare with correspondingly less funds available for development purposes.

It is nearly impossible for a man with a large family and limited resources to save any money for investment. Thus, any investment that the Band member makes is going to have to be in the form of work. Another economic consequence of the large family is the inability to supply adequate services and facilities. At the present time transportation is one of the most obvious examples. Many of the families have no way of getting into town to find out what is going on or take advantage of any new ideas which may be under discussion at Hobbema or perhaps in Ponoka. Large families in small homes inevitably result in overcrowding. This results in students not being able to find an adequate place to study and as a result dropping out of school because of the increasing frustrations. A further apparent social problem which may be attributed to overcrowding is the many family fights and breakups. The employed male is often quite concerned about the family situation and cannot concentrate on his work, thus his efficiency is impaired. The unemployed male has nothing to do but stay at home where continuing contact with the family under extremely crowded conditions leads to friction.

One important social factor which must be considered when planning for development on the Reserve is the fact that 35.8 per cent of the households have a female as the head of the household. In most circumstances, this implies that there is no wage earner in the family and thus these people will have to depend on the Band Council and on welfare for the necessities of life. Thus, nearly 40 per cent of the Reserve population can provide no development input at the present time.

Work Habits and Attitudes Toward Employment

Lack of employment for the last several years, and particularly during the last winter, has caused poor working habits and attitudes to develop. Problems associated with excessive drinking are seen as symptoms of these attitudes. Any development which may take place on the Reserve must include provisions to break down the poor working habits and drinking patterns which have developed.

A further result of the lack of employment may be seen in the general dependency on welfare which has developed on the Reserve. In many homes, welfare has become almost an accepted way of life. The children have grown to accept this as the usual rather than the exception. As these young people enter the work force, strenuous efforts must be taken to break down this dependency on welfare. Men sitting around the house, not able to work, soon find that they lose pride in themselves. An early objective of any development program must be to reinstate pride.

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Economic Aspirations

The general economic situation which most people on the Reserve have grown up in, has resulted in a very low economic aspiration level. The average person on the Reserve indicated a requirement for \$32.00 per month in order to live. This low economic aspiration level can usually be achieved through welfare and other transfer payments. When a man does start to work, he can usually achieve this economic aspiration level fairly quickly and thus the incentive to work is no longer existent and he quits. The only way that a more dependable work force can be obtained is through steady employment. Steady work available on the Reserve and the development of higher economic aspiration levels are essential for the success of any development program.

Recreation

There is a complete lack of adult recreation programs on the Reserve, and very few for the youth. This lack of recreation is adding to the developing pattern of delinquency and drinking and results in many young people being sent away to reform schools and gaols where they develop socially unacceptable attitudes and become associated with a group who accept crime as a way of life. The drinking patterns which have developed often mean that a man who has received some income will go on a drinking spree, sometimes for 4 or 5 weeks at a time, until his money runs out. With this type of drinking pattern, normal work habits are impossible.

The lack of organized constructive recreation for the Indian youth has resulted in an increased incidence of vandalism Any project which is started on the Reserve will have to assume that some vandalism will occur until proper recreational facilities supply an adequate alternative.

Farming Techology

The members of the Montana Band are not in touch with modern farming industry. This fact is demonstrated by the extremely low number given in response to the question "How many acres are required to make a satisfactory income from farming". Before any proper agricultural development can take place on the Reserve, the majority of people must become conversant with contemporary farming practices. The current conception of farming held by most Band members is as much as 20 years outdated. There are a few people, of course, who have a better idea of what is required and they must be assisted in explaining to their fellow Band members what is involved. Until modern farming is understood, any agricultural development will probably be hindered by people feeling that too much money is being spent on initial capital investment and for such items as fertilizer and weed spray.

Relationship Between Council and Members

The very poor communications between the Band members and their Council is going to result in a lot of fear and suspicion about any development project. The Council is usually thought of by most Band members as a welfare group, and they keep wanting the Band Council to do more and more for them; not in the form of development but in some form of welfare. Any development that the Band Council tries is going to be hindered by these two problems; the lack of communication with the Band members; and their present attitude towards the Band Council as a welfare group.

Attitudes

Eighty-five per cent of the members of the Montana Band feel that the Reserve will not be a better place to live in ten years. This lack of self-confidence and lack of confidence in their fellow Band members and Band Council as a whole is going to act as a serious impediment to any form of development be it social or physical. The feeling of lack of ability was further demonstrated by the assumption by most Band members that any development program must necessarily entail the use of a white manager. The general feeling of the Band members might be summed up in that it was felt that either the Band Council or Indian Affairs would have to be responsible for any development that took place, and that the Band Council could do nothing and Indian Affairs would do nothing.

The lack of confidence in the Reserve is augmented by the physical

problems associated with communication on the Reserve. The Band members do not regularly see each other nor do many of the Band members communicate with their Band office, except when going to get welfare payments or to receive some other form of welfare.

Education

The average educational achievement level of those looking for employment on the Montana Reserve is 6.1 grades. Of those 30 people looking for work on the Montana Reserve, only 8 had Grade 9 or more. These statistics have obvious implications in terms of any development plan. A great deal of attention must be paid to communications, and planned development projects must be explained verbally.

A further hindrance to development in this area is the low level of education which the parents consider as necessary to obtain a good job. This is compounded by the fact that they expect their children to get less education than that which they feel is necessary to obtain employment.

Any development planned to take place on the Montana Reserve must consider the fact that parents consider themselves as being inadequate, and consider their children as being inadequate. Most Band members feel that the Band Council can do very little for them and that the rest of society is not interested in helping them. Generally, attitudes on the Reserve are typified by a high degree of hopelessness.

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SECTION 6 - LAND TENURE

One of the recognized inhibitors to successful development of the Montana Reserve lies in the present system of land tenure. Under the present situation some members have been given, either formally or informally, the right of occupancy to particular quarter sections of land. Since none of the Band members are farming, most of the arable land is leased. During the 1967-68 fiscal year, individual Band members received a total of \$13,991 in lease revenue from property on which they lived, while the Band's Leasing Account was credited with the amount of \$11,085 being lease revenue from lands not occupied by members. Thus the total lease revenue to the Band was \$25,076, somewhat less than the \$45,400 indicated by Table 24 as being the total income capability of Reserve lands. The present uncertain status of land tenure is partially responsible for this operating inefficiency.

As the population of the Band increases, tenure problems will become magnified as greater demands are placed upon the Reserve's resources. Some of the present and anticipated tenure problems may be outlined as follows:

- Band members are unsure of their status with respect to property on which they live;
- (2) Lack of specific policy leads to misunderstanding and suspicions of favoritism in allocation procedures;
- (3) Unless a townsite is developed, problems will arise in the future regarding new house location (1984 Band population is projected at 475 people who will require approximately 75 homes, or one house per 84 acres);
- (4) It appears unlikely under the present system that a member could obtain control of enough land at terms which would allow him to operate an economical farm enterprise;
- (5) The present system would not allow operation of a Band feedlot operation on the basis recommended in this report.

It is essential that the Band give consideration to alternate systems of land tenure which would be more amenable to development planning. The alternatives available may be viewed as a continuum, ranging from one extreme of total private ownership to another of total communal or Band ownership. Some possible alternatives are discussed below:

- (1) Divide all Reserve land among present members and provide Certificates of Possession for each parcel, so that members interested in farming could purchase land from other members and accumulate an economic farm unit. This alternative would give each member an equal share of the Reserve land but provides little incentive towards optimum land use and makes coordinated planning almost impossible;
- (2) Place all Reserve land in Band ownership. This alternative would lend itself to optimum development control but would not allow for individual enterpenureal initiative;
- (3) Use a combination of 1 and 2 above, on the basis that the Band would control all land but would make allowances for members who prove their farming ability over a predetermined period of time to receive Certificates of Possession to sufficient land to allow an economic farming operation. This alternative would provide adequate development planning and control while encouraging individual initiative.

The above alternatives, or other similar tenure systems must be reviewed by the Band and a course of action selected which will complement the goals of overall development planning on the Reserve.

SECTION 7

PLANNING FOR IMPLEMENTATION

A development study such as this is of no value whatever unless the resulting report is completely understood by those affected and unless the appropriate action is planned and implemented.

DEVELOPMENT OF UNDERSTANDING

The authors have attempted to present this report in as simple a manner as possible, but it must be recognized that several of the topics covered are fairly sophisticated and defy simple descriptions. With this in mind and realizing that the average grade level of Montana Band members is less than Grade 5, it becomes obvious that a supplementary system must be found to increase the degree of understanding of this report. To accomplish this objective, it is recommended that an audio-visual presentation of the basic theme of this report be prepared, and used on a continuing basis throughout the development period. Such a presentation might use a series of slides with a synchronized taped commentary. Much of the visual material would involve the presentation of ideas and the skilled use of graphic techniques is dictated. While an audio-visual presentation shows promise of being extremely effective, it will have to be supplemented in turn by experienced personal contact.

Before the contents of this report can hold any meaning for Band members, it will be necessary for them to develop an awareness of their present situation, not only as they see it, but as their children see it. One suggestion which might bring forth the child's perspective is the promotion of an essay or picture contest, in which children of various age groups would be asked to picture the Reserve as they see it now, and as it might appear in ten years. Experience elsewhere has shown that the results of such a program can be very revealing. Another way of increasing awareness is to employ some means of comparison and contrast. To this end, it is recommended that more field trips to other Reserves be organized, particularly those Reserves which have undergone or are undergoing successful development programs.

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Awareness and interest can also be generated through the use of the news media. Radio discussion groups might debate common problems, and a regular 15 minute radio program of Hobbema news and development ideas over CFCW (Camrose) would serve to inform both Band members and neighboring whites. About one-half of such a program could be in the Cree language. The "Bear Hills Native Voice" appears to be a successful venture, and should be supported wholeheartedly by both Council and Band members.

GEARING UP FOR DECISION MAKING

The ability to make decisions with assurance and authority must stem from two basic factors; a growing desire for self-confidence and identification, and an understanding of the decision making process.

Self-confidence stems from some basis of pride, both within the individual and with respect to his perceived association with his culture and environment. Individual pride may be developed to some extent through the information programs suggested above, and will be reinforced by successful operation of initial development programs if the individual is allowed to identify with such programs.

Pride, as a result of the individual's association with his Reserve and community, may be partially developed by the simple process of improving the appearance of the Reserve. To this end, it is recommended that a 'community clean-up' program be developed which would utilize the energies and talents of young people on the Reserve. These people could be employed during the spring weekends and summer holidays in tilling gardens on the Reserve, helping older people plant and weed their gardens, general yard clean-up, landscaping of public buildings and painting of homes and outbuildings.

A pragmatic approach to decision making is sometimes taken for granted in white society, but cannot be assumed when considering the Indian culture. It is therefore recommended that the decision making process outlined below be emphasized and taught at all levels, from elementary school through adult education and Band Council.

- 1. Problem identification.
- 2. Collection of pertinent data.
- 3. Information analysis
- 4. Decision.
- 5. Action and Feedback.

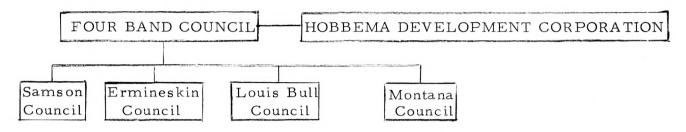
STRUCTURING FOR DEVELOPMENT

Having digested the contents of this study and having decided upon those areas in which action should be initiated, Band members must next establish an organizational structure capable of bringing about the required action.

It is felt by the authors that the existing framework of Reserve government is not amenable to the type of dynamic development programs needed. Furthermore, it must be noted that the four bands comprising the Hobbema group have much in common and should therefore consider any extension of common interests which promise economic or other savings. One obvious area in which the concept of 'common interest' applies is in connection with the development of an urban community at Hobbema, as discussed in the Four Band Report. Many other areas present themselves upon reflection.

The Montana Band has a limited scope for development, by virtue of its limited membership and area. Thus the training and job education available will be primarily agricultural and rather limited in terms of numbers. A co-operative development program planned in conjunction with the other Reserves will make all areas of employment and training throughout Hobbema available to all Band members. Furthermore, integrated development will increase the collective bargaining and purchasing power of the group, and will enhance the degree of savings which may be derived from bulk purchasing of equipment and supplies.

It is therefore recommended that overall planning and coordination of development on the Hobbema Reserves be delegated to a Development Corporation. This Corporation would be an administrative body which would act in accordance with terms of reference established by the Four Band Council, to enact and implement development policies legislated by that body. Individual Band Councils would retain their current welfare function, and play a role in formulation of development policy through their membership in the Four Band Council. The resulting structure may be shown diagramatically as follows:



Such a structure would require that the Four Band Council be properly defined and given specific responsibilities, since at present its status is strictly ad hoc.

The development corporation would require at least one experienced administrator to act as chairman, with other experienced resource personnel available as and when required. For a more detailed discussion of the proposed Development Corporation, refer to the Four Band Report.

POSSIBLE SOURCES OF FINANCIAL AID TO DEVELOPMENT

The following is a list of departments or agencies which may be viewed as possible sources of capital for the Bands during various stages of their development. The Bands should establish initial contact with these agencies, determine for themselves the role that they might play, and then choose their course of action accordingly.

- Human Resources Development Authority (HURDA) will provide loans and grants towards a total community concept. (Federal and Provincial).
- Indian Affairs Branch make use of revolving fund loans and development loans. (Federal)
- Central Mortgage & Housing Corporation (CMHC) mortgage funds available for housing, apartments, homes for the aged. (Federal)

- Industrial Development Bank (IBD) loan capital available for starting business, particularly applicable to hotel and service industries. (Federal).
- 5. Farm Syndicate Loans available for farm machinery (Federal).
- Farm Credit Corporation (FCC) loans of up to \$100,000 per Reserve available to improvement of land for new or enlarging farms. (Federal)
- Farm Implement Loan (FIL) Loans available to assist existing farmers to make improvements. (Federal)
- 8. Alberta Credit Corporation (ACC) loans available to assist new and expanding businesses (Provincial).
- 9. Chartered Banks loans available to assist business.
- 10. Treasury Branch loans available to assist business.
- Alberta Farm Purchase Board (AFPB) loans available to new or enlarging farms (Provincial).
- Trust & Life Insurance Companies loans available for business purposes.
- Prairie Farm Rehabilitation Administration (PFRA) financial assistance available for dug outs and community pastures .
 (Federal)
- Regional Development Department function not fully defined at this time (Federal).
- 15. Alberta Housing & Urban Renewal Corporation (AHURC) may provide assistance to a non-profit housing corporation.
 (Provincial).
- Battle River Regional Planning Commission (BRRPC) may provide long range planning assistance.

It is imperative that the organizations and agencies mentioned above be made aware of the Band's goals and be willing to work towards these goals at such a pace that resources will become available to the Band when necessary, and not when convenient for the agency involved. The activities of these bodies must be coordinated and every effort made to achieve mutual understanding of each others roles and capabilities. It is further essential that the Federal and Provincial Governments make immediate decisions as to their joint responsibilities towards the Indian people.

Apart from financial aid, many of the above agencies can offer resource personnel to the Bands on a continuing or intermittent basis. It is most important that such personnel have empathy with Band members, be creative, be able to work in existing systems, be able to adapt as changes occur, be technically competent, and have previous development experience. Resource personnel should be selected accordingly.

DEVELOPMENT IN TIME

Before any projects are started, a total development plan should be arrived at by Band members. It will probably take a minimum of six months before Band members are aware of what is involved in such a process, and are in a position to start working towards a long term development plan. It is important that such a plan be developed by the Band members and directed towards their own conception of desirable long term goals.

The development plan should be drawn up as a five year program, to be reviewed and updated annually. The program should be made as flexible as possible, and it should be emphasized that changes can and probably will be made to the program, as Band members become more confident and competent in the management of their Reserve.

ROLE OF THE INDIAN AFFAIRS BRANCH

The Indian Affairs Branch has a bad public image. It is felt that this image has been brought about to a large extent by the almost total misunderstanding on the part of Canadian society of the Indian situation and of the degree of difficulty associated with the function of the Indian Affairs Branch. The image is further developed by the very nature of the Branch's responsibilities under the Indian Act and by the necessary nature of their association with the Indian people. It is felt, however, that the Branch's image has improved over the past few years from that which was developed as a result of earlier

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interpretations of the Indian Act which placed the Branch's officials in the role of pseudo-dictators.

It is the impression of the authors that the present image of the Branch is deserved to some extent. During the conduct of this study, it has been noted that not all of the staff members attached to the Branch are able to develop an empathetic relationship with the Indian people, neither did all staff members display total competence in their position.

It is felt that the effectiveness of the Branch can only be improved through the development of cordial relationships with the Indian people, which implies development of an improved public image. There are two specific areas in which adjustment and re-organization of the Branch may lead to this type of relationship. Insofar as an institution may be judged by its officers and members, it is suggested that a program of selected personnel recruitment and staff adjustment is essential to ensure that all Branch personnel who come in contact with the Indian people are both capable and desirous of forming empathetic relationships with these people. All staff members must be capable and willing to work enthusiastically towards the developing goals of the Indian people. Office personnel must also be able to identify with the function and requirements of field personnel so that field men are not unnecessarily delayed or frustrated due to a lack of understanding on the part of office staff. Field personnel cannot develop self respect, nor can they generate respect on the part of the Indian people when they are denied a meaningful level of authority and responsibility. Furthermore, field personnel cannot operate efficiently when a large amount of their time must be devoted to paper work. It is suggested that the Branch investigate the possibility of a re-organization and reassessment of responsibility which would lead to a decentralization of authority not only to the regional and district level, but more important, to the field level.

The Indian Affairs Branch has been accused many times in the past of being a paternal organization, an accusation which, to a large degree, is justified considering the functions which have been delegated to or assumed by the Branch. By taking action towards getting out of the welfare business and placing Indian welfare with the Provincial Government so that the Indian could function on the same basis as other Provincial residents, the Branch may start to move away from this paternal type of activity. As a further step in this direction, the Branch might consider removing itself from the field of direct development financing altogether, and encourage the Indians to utilize the same financing sources as their white neighbors on the basis that the Branch would co-sign notes in cases where the Indian Act prohibited an Indian from providing the required collateral.

Assuming the changes suggested above, the role of the Indian Affairs Branch could lead towards a much more positive and meaningful contribution to Indian development and welfare. Because of the image of the Branch and because of their functional relationship with the Indian people, the Branch must be considered as an integral part of the Reserve power structure and it is felt, therefore, that the resultant position largely inhibits the effectiveness of the Branch in a social development position. Thus, it is felt that the key to the future role of the Branch lies in co-ordination and technical resource input. There are a multitude of government organizations and private agencies whose goals and activities with respect to the Indian people overlap, and in some areas are contradictory. By virtue of their delegated authority and influential position, the Indian Affairs Branch is in an excellent position to co-ordinate the activities of these groups to the betterment of the Indian people and to then provide whatever technical services or resource inputs are necessary to complement the activities of these other groups so as to allow a total and comprehensive approach to Indian development. Ideally, this is the role of the Band Council, which will be gradually assumed as their level of competence increases.

SECTION 8 - SUMMARY OF CONCLUSIONS

The following is a summary of the conclusions reached throughout this study, grouped under general headings.

POPULATION

The population of the Montana Band is increasing in the order of 5 per cent each year. This rapid increase is placing severe strains on the natural resources available to support the Band. There is a definite increase in the number of people leaving the Reserve.

HOUSING

Housing is overcrowded and inadequate. Thirty-three per cent of the homes on the Reserve have a crowding index of 2.0 or greater. Overcrowding is resulting in family breakdown. 12.5 per cent of the houses on the Reserve are vacant.

PROVINCIAL GOVERNMENT

The Provincial Government should take over Indian welfare services and coordinate their activities in the field of Indian development with the Federal Government.

BAND COUNCIL

Council spends an excessive amount of time on administrative detail which could be handled by a competent administrative staff thus leaving the Council available for making policy decisions.

TRANSPORTATION

Transportation is a major problem on the Reserve which amplifies the difficulties of communication.

COMMUNICA TION

Written communications are not used to any extent on the Reserve. Communication is almost non-existent between Band members and Council, between Band members and Indian Affairs, and between the Reserves and society as a whole.

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EDUCATION

The average Band member has a low level of formal education. The Reserve and the schools appear to offer the student different goals; there are few rewards for getting a higher education. There is a distinct lack of identity with the school system on the part of Band members, although the people generally want more education for both adults and children.

RECREATION

Recreation of a constructive nature is almost non-existent although Band members want organized recreation programs, particularly for youth.

SOCIAL

Band members feel that they and their children are inferior members of society. They expect things to be worse in the future. Relationships with white society and Indian Affairs are regarded as a game; the whites have the money and the object of the game is to get as much of this money as possible with the least amount of effort.

There does not appear to be any generally accepted goal for the Reserve.

Welfare has become an accepted way of life on the Reserve and members regard Council as a welfare group. In fact, only 5 per cent of the 1967-68 budget was devoted to Reserve development.

As overcrowding and unemployment continue, the social situation is expected to decline further.

Work habits and attitudes are not condusive to full and steady employment. Members are dissatisfied with the absence of an incentive wage program.

Religious organizations are not playing an effective role in helping members realize their potential.

AGRICULTURE

There is a definite lack of knowledge among Band members regarding modern agricultural practices. Unless members are willing to learn modern procedures, they will not be able to farm successfully. Agriculture can support only a few families on the Reserve. To obtain maximum income most land should be leased with the balance used to supply the requirements of a feedlot. A nursery for ornamental trees and shrubs appears feasible.

INDIAN AFFAIRS BRANCH

The Indian Affairs Branch has a bad image. The image can and should be improved through a program of selective personnel recruitment and decentralization of authority to competent field personnel. The paternalistic nature of the image may be improved through transfer of the Branch's welfare obligation to the Provincial Government and by encouraging the Indians to use common sources of funds rather than direct Branch loans. The future role of the Branch lies in the area of coordination of the many resources which are available within the Canadian society and applicable to the development of the Indian people, plus the input of supplementary technical assistance.

SECTION 9 - SUMMARY OF RECOMMENDATIONS

The following is a summary of the various recommendations contained in this report. The recommendations cover a wide range of topics and activities, and are not necessarily complementary.

It is essential that the Indian people review these recommendations, which in effect provide a range of action alternatives, in light of the data and discussion on which they are based, so that future action is founded on a full understanding of the basis on which the decisions are made.

GENERAL

- (1) It is essential that the findings and recommendations of this study be known and understood by all Band members. It is therefore recommended that an immediate information program be initiated, based on an audio-visual presentation of the findings of this study.
- (2) It is recommended that the Montana Band join with the other Hobbema Bands in a detailed review of the existing Reserve-Government structure. It is suggested that consideration be given to broadening the powers and responsibilities of the Four Band Council, and to the formation of a Four Band Development Corporation to act as a funding and control agency for all Reserve development programs.
- (3) It is recommended that the Montana Band cooperate with the other Hobbema Bands in a detailed investigation and evaluation of an urban community of Hobbema. (Refer to the Four Band Report for supporting documentation for this recommendation.)
- (4) There appears to be no concensus of opinion among Band members regarding the desirable direction and nature of development; in other words, the Band has no goal. It is recommended that no implementation of programs be planned until such time as the Band has thoroughly discussed and analyzed their present situation and agreed on general development goals.

AGRICULTURAL DEVELOPMENT

- Three basic alternatives are presented which represent a range of involvement and capital investment:
 - (a) Lease all property to white farmers.
 - (b) Develop the Reserve on the basis of economic family farm units.
 - (c) Develop the Reserve on the basis of a single Band farm centered around a cattle feedlot operation.

It is recommended that the Band choose from these alternatives on the basis of perceived goals as agreed upon by Band members, and on the basis of an evaluation of possible participant interest and training potential.

(2) Assuming an expression of interest by at least one Band member, it is recommended that the Band utilize selected areas adjacent to the Battle River to develop an ornamental tree and shrub farm as discussed herein.

INDUSTRIAL AND COMMERCIAL DEVELOPMENT

 Recommendations for development in these areas are contained in the Four Band Report.

HOUSING

- (1) It is recommended that current house construction policies be reviewed with the objective that no further housing investment be incurred until such time as the existing stock is completely utilized.
- (2) Assuming agreement in principle with the concept of township development at Hobbema, interim housing should be so designed as to facilitate movement of housing units to a townsite location at the appropriate time.

SOCIAL AND EDUCATIONAL DEVELOPMENT

- Initial development emphasis should be directed towards those programs which will tend to develop pride and confidence within the Band and which show the greatest promise of economic success.
- (2) Education, both as a prerequisite and as a continuing benefit, must be a major consideration of any development scheme.
- (3) It is recommended that an "incentive" wage scale be instituted on all Band projects.
- (4) It is recommended that the Montana Band cooperate with the other Hobberna Bands to develop a comprehensive recreation program, including the acquisition of a qualified full time recreation director. Church officials should be encouraged to integrate their activities with such a program.
- (5) It is recommended that a concerted effort be made to improve communications on the Reserve. This applies to internal communications between Council and Band members as well as external communications designed to enhance the Reserves' image off the Reserves. This implies increased support of the Bear Hills Native Voice and the investigation of a possible radio program, among other things.
- (6) As a step towards increasing the level of awareness of existing conditions on the Reserve, it is recommended that an essay and picture contest be organized, the objective of which would be to describe the Reserve as it is today. The contest should be open to children and adults.
- (7) It is recommended that members play an active role in the development of a continuing pre-school program.
- (8) Improved communications are necessary for a higher level of educational achievement. It is recommended that a well structured program of parent-teacher meetings be organized; that efforts be made to make both parents and pupils aware of the educational requirements of the labour market; and that an

adequate guidance counselling service be made available.

- (9) It is recommended that more vocational training be made available for all age groups, and that specifically designed post-school programs be increased.
- (10) Adequate library facilities should be available to all Band members. It is recommended that a library be included in any planning of a town centre.
- (11) In an effort to increase pride in the Reserve, it is recommended that a "student summer work program" be started, whereby students would be employed by the Band to improve and plant yards and gardens and engage in general clean-up activities.
- (12) Until a central community is developed, it is recommended that a bus system be organized or provide transportation to Hobbema, Ponoka and Wetaskiwin.
- (13) It is recommended that the Band press for the earliest possible settlement of Federal-Provincial cost sharing programs.
- (14) It is recommended that the Indian Affairs Branch undertake a program of staff adjustment and selective personnel recruitment as a step towards improvement of their effectiveness. Welfare functions should be transferred to the Provincial Government. The Branch should consider removing itself from the direct lending field. The Branch's future efforts should be directed towards coordination of comprehensive development on Indian Reserves.

APPENDIX A

F

HOBBEMA INDIAN RESERVES

HOUSING SURVEY - BUILDING CONDITION CRITERION

A. Good Condition

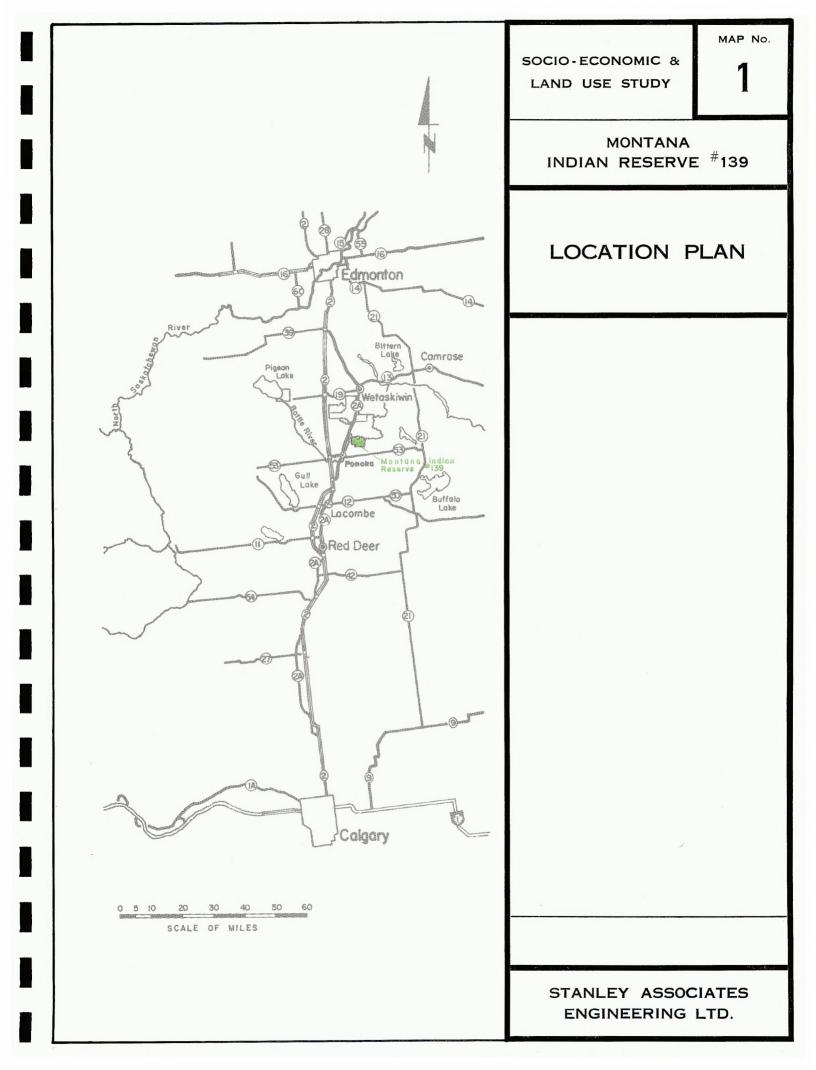
- 1. Structurally sound
- 2. Weatherproof
- 3. Fully completed
- 4. All components in satisfactory condition
- 5. Clean and well maintained.

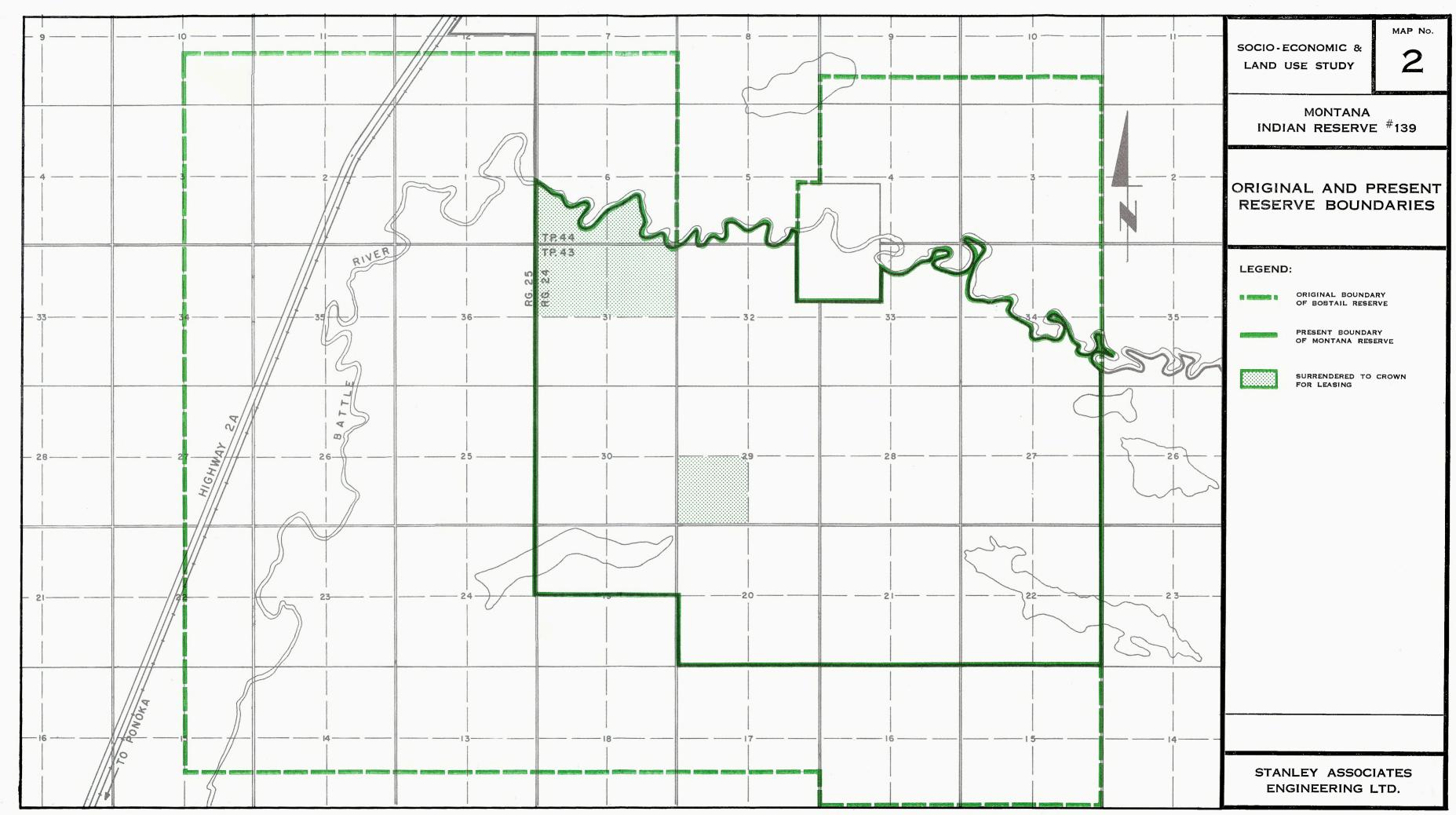
B. Fair Condition

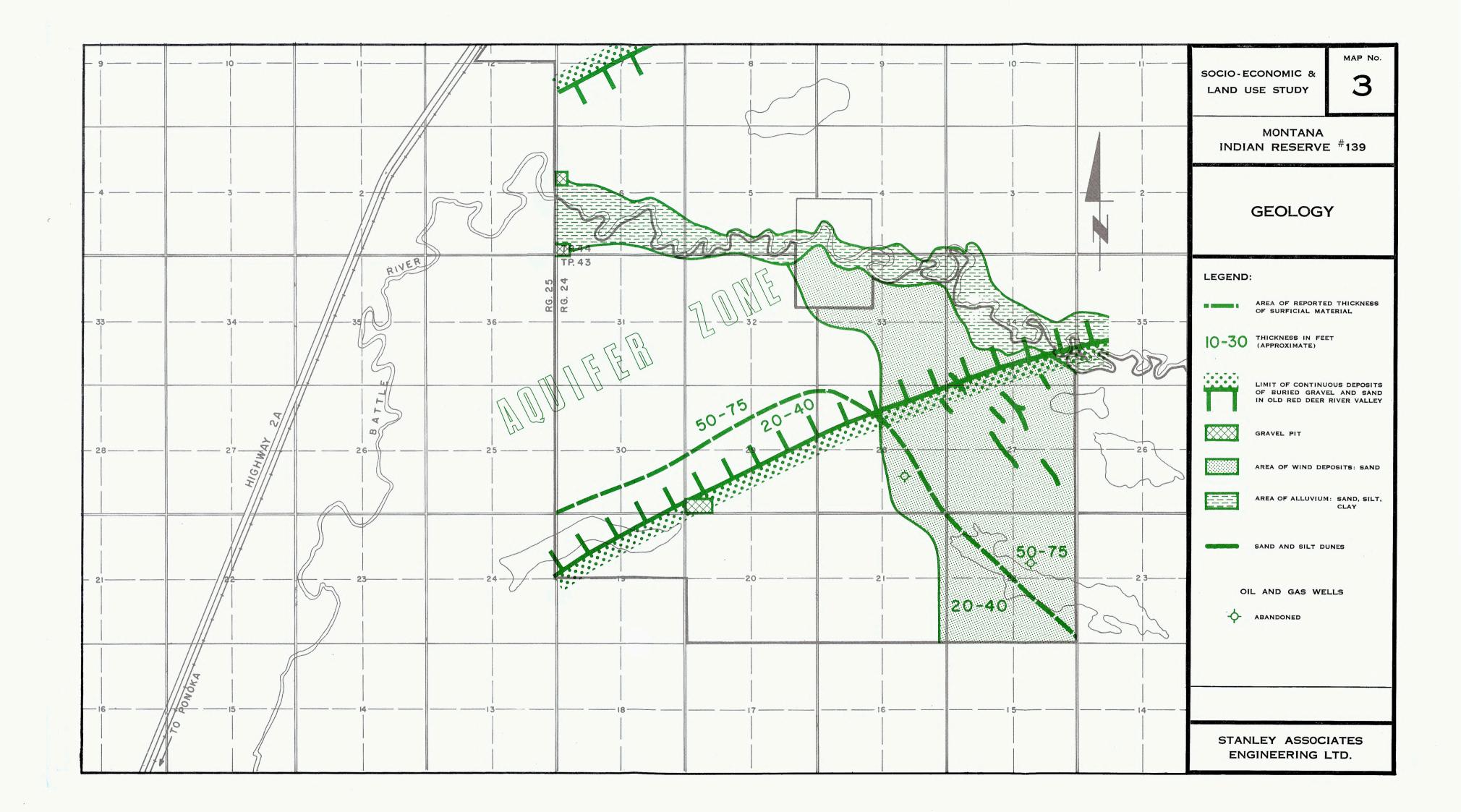
- 1. Major structural components in satisfactory condition
- 2. Not fully weatherproofed
- 3. Not fully completed missing details of trim, doors or windows, etc.
- 4. Minor repairs required
- 5. Maintenance required

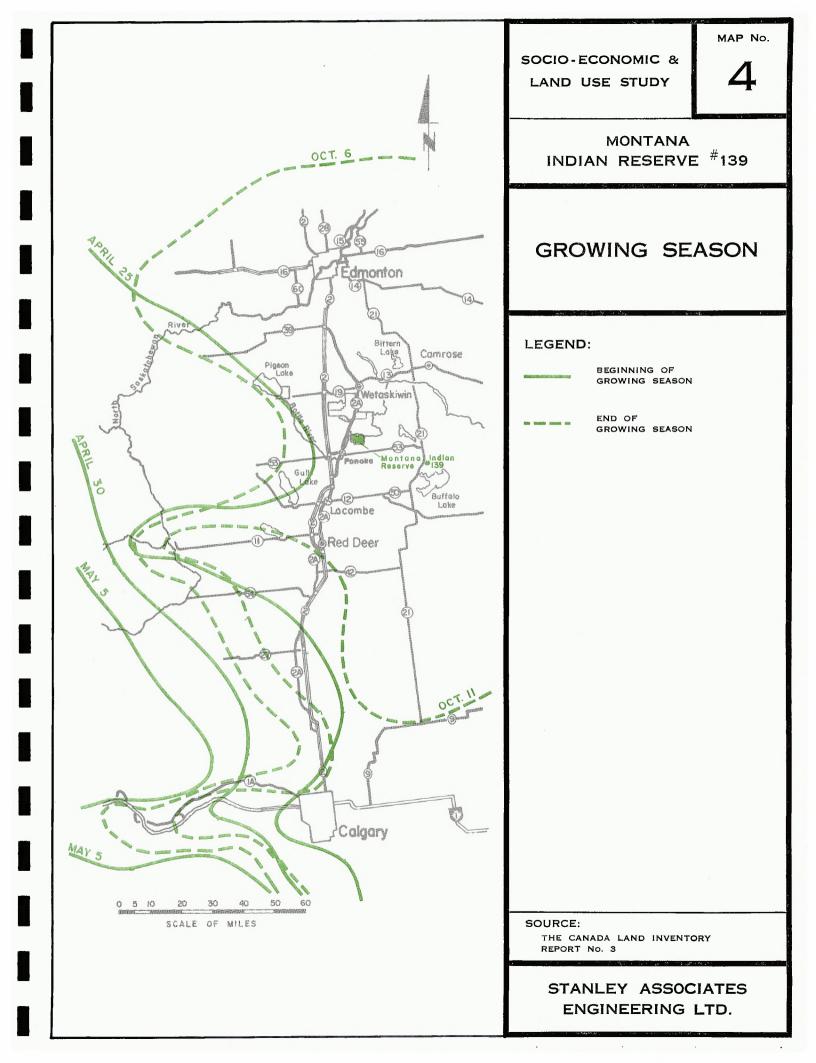
C. Poor Condition

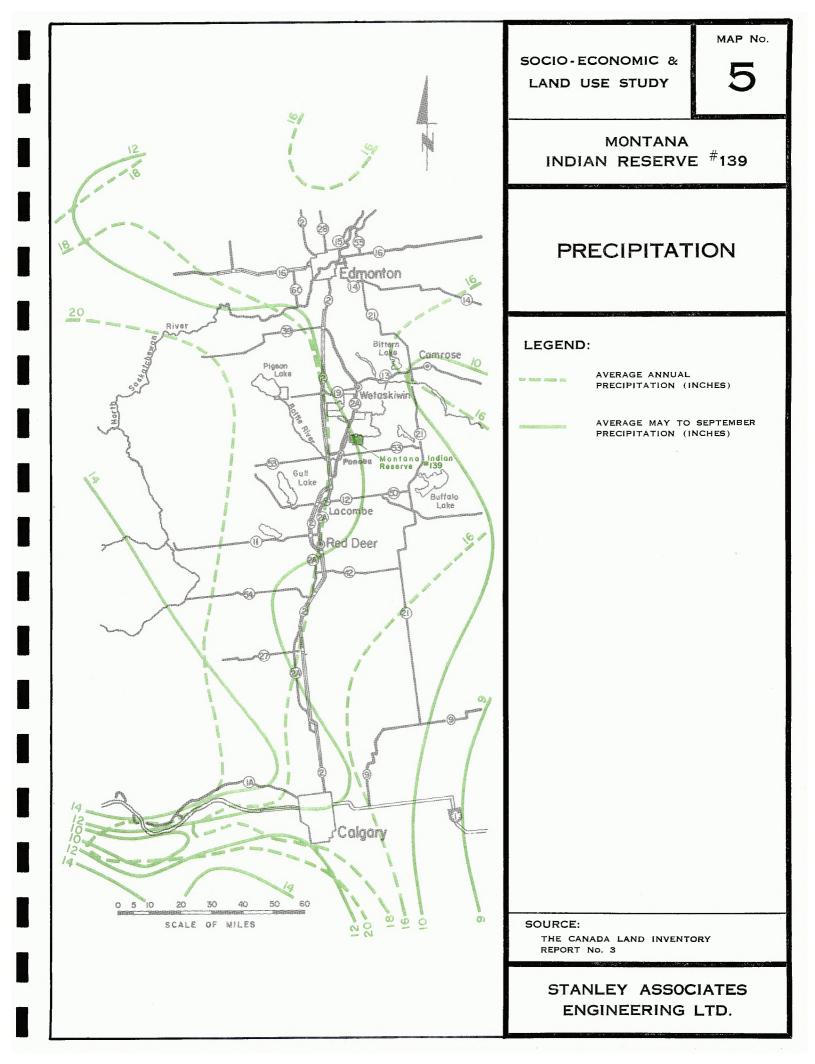
- 1. Structurally sound
- 2. Non-weatherproof
- Substantially incomplete missing complete components such as roofing, siding, doors, etc.
- 4. Substantial repairs required to complete components
- Substantial maintenance required, evidence of high degree of neglect.

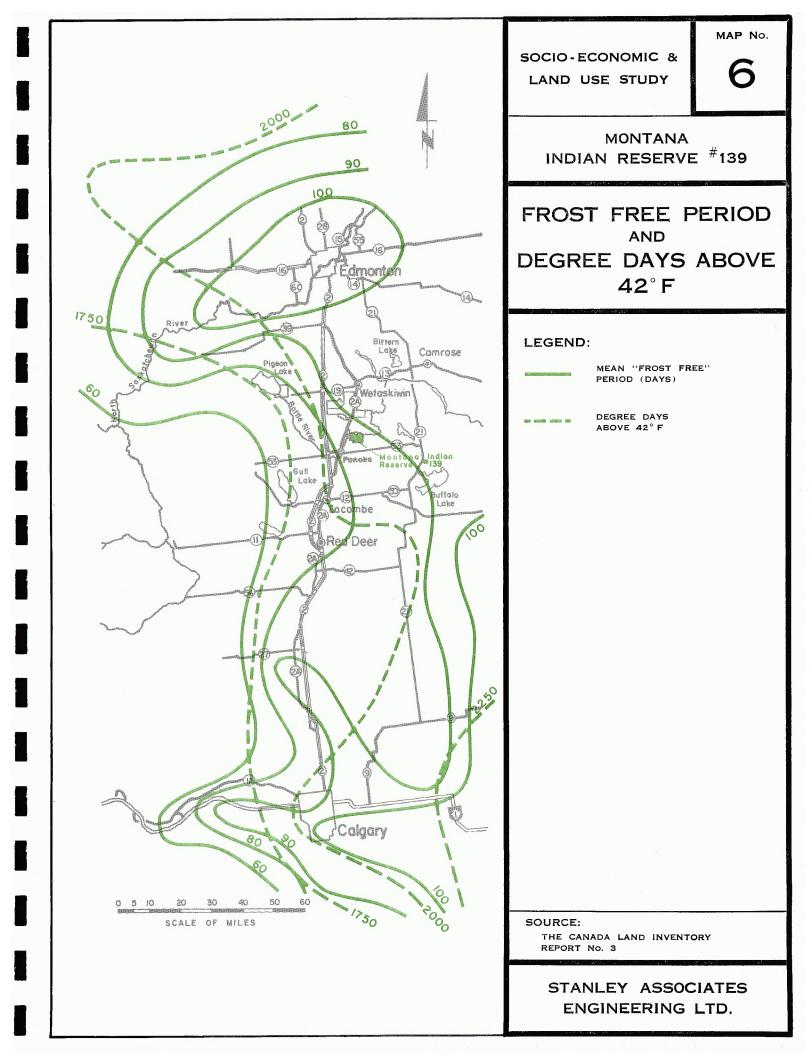


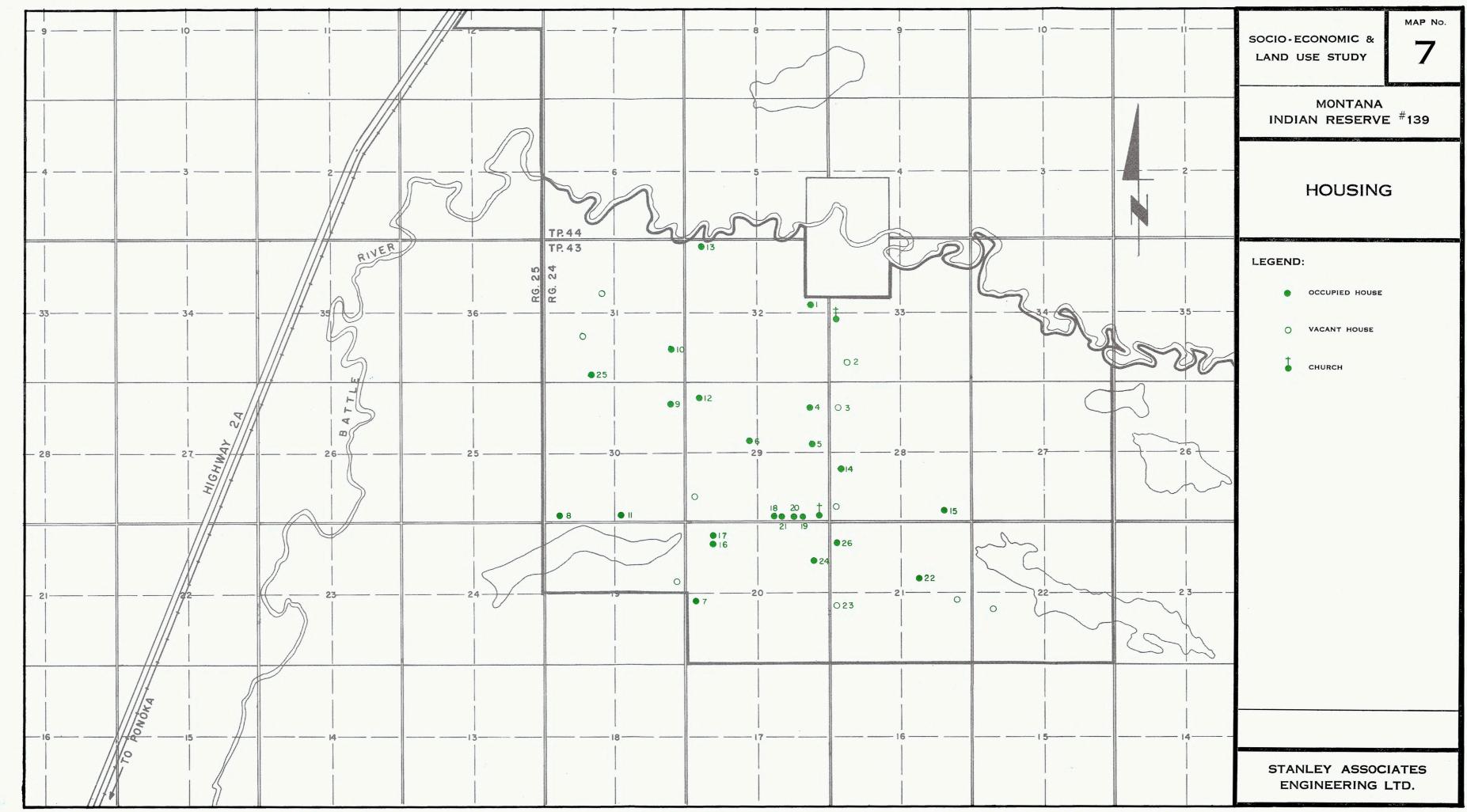












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