An analysis of attendance and performance of
Kehewin students enrolled in Bonnyville Schools in
1967-1968for the six year period 1967-68 to 1972-73
with comparison to a Non-Native student population.


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Enrolled in Bonnyville Schools in 1967-68
for the 6-Year Period 1967-68 to 1972-73
with Comparison to a Non-Native Student Population

[^0]Comments from members of the kehewin Band and from various school representatives in Bonnyville suggest that as a consequonce of the Total Communty Development Approach of the past 2 years thexe has been a marked improvement in school attendance during the $1972-73$ school year as compared to previous school years. As part of the analysis and identification of the affects of the Total Commmity Development Approach it was felt necessary to ascertain, if, in fact school a attendance had improved. It was also thought desirable, where possible, to identify the performance levels of Kehewin students in terms of pass, failure or withdrawal.

The Bonnyville School District, like most if not all school districts in Canada, maintains a record of student attendance. The daily register as it is called identifies by classroom each student, his or her monthly attendance during the year and in some cases whether he or she has completed the grade successfully.

For the purpose of this analysis it was decided to extract information on individual student attendance for all native (registered Indian) students from Kenewin Reserve who were registered in school in 1967-68 and to follow these students through school up to 1972-73. A corresponding number of non-native children were also to be selected, but on a random basis, to act as a control group against which attendance and performance of the native children could be compared.

The year 1967-68 was selected as a starting point for analysis as it would give an historical perspective of 6 years for attendance and performance data and thus identify trends.

The consequence of choosing a fixed population and following it through the 6 -year period is that at the end of the period (1972-73) there are only about $45 \%$ of the original group remaining in school due to graduation, transfers and Withdrawals. Any observations or conclusions made with respect to school attendance or performance in these later years are thus based on a sub-population of the total school attending population of those years. Hopefully this sub-population is in all respects representative of the total native school population for those years.

For school yoars 1971-72 and 1972-73 sone enrollment data was unavailable at the School District office and arrangenents had not been made with the High Schocl to extract the data required. The number of students excluded from the analysis for these latter two years is not known.

Mr. J. Noquin, Supecintendent of Schools, Bonyville School District kindly conceried to make the registers available for data collection. The data was gathere! durine the period February 26 to Mateh 6,1974 . A list by grade of the shatonts in school in $1967-68$, and included in the andyeis, both native and mon-nitive, is found in the apmondix. Also home is the studentisage and hi: putiorm of atondance barime the six-yoar perjot.


Ave/Grade Distribution of Students Eryolled in 1967-68
In 1967-63, 117 native children from Kehewin Rescrve were attending Bonnyville district schools. Tabie 1 gives the distribution of the 117 native children by age and grade enrolled in September 1967. Table 2 similarly identifies the 114 non-native children who were randomy selected. The lover number of non-native children results from the selection technique. (For every native child in a class a non-native child was selected. In some instances the majority of children in a class were native. As a consequence there were insufficient numbers of non-native children to fill the sample required.) The majority of children $(80 \%)$ in this analysis were enrolled in the primary grades (grades 1-6) in 1967-68.

Tables 1 and 2 also shew the average age for each of the students for each grade, expressed in terms of years and months.

In 1967-68 native children were generally older than their non-native counterparts for each grade. The difference in average ages is very little for the primary grades but at the more senior grades the age differential is more pronounced such that by grade 10 native students are on average approximately 2 years older than non-native students. The age differential is easily recognized when a comparison is made between the number of children enrolled in the expected grade for their age as indicated by the diagonal line and the numbers falling outside the diagonal line. This is based on the assumption that a 6 -year old would be enrolled in grade 1 and progress satisfactórily; i.e. one grade for each additional year. Those above and to the right are older than expected for the grade; those below and to the left are younger for the grade than expected.
$66 \%$ of the native children enrolled in 1967-68 were enrolled in a grade lower than expected for their age. This is twice the percentile for non-native students.

The age differential suggests that native students are not progressing as rapidy through the grades as their non-native counterparts.


Table 3 shows average attendance of students by grade enrolled in 1967-68 for the years 1967-68 to 1972-73. The students enrolled in 1967-68 are followed through to 1972-73 and average attendance by grade for each year is calculated. To be included in the calculation a student must attend at least 100 days during the school year. Those who have been excluded by this axitrary cut off include students who withdraw part way through the year, students who transfer in or out during the school term and students who have a significant attendance problem. All of these have been omitted so as to renove strong downward bias in the average attendance figures. The number of students who started in September 1967 are shown in brackets after the grade and the number each year is shown after the average attendance for that year.

The attendance pattern of native students can be examined in two ways; relative to perfect attendance and relative to non-native attendance. Table 4 identifies the attendance differential of native students with respect to a full attendance situation for each of the years examined. The following observations can be made.

1. Generally, the higher the grade, the poorer is the attendance of native students.
2. Generally, the attendance of native students in 1969-70 and 1970-71 was better than for any other year.
3. The attendance of native students was poor in 1971-72. This was a result of the school strike of September, October and November of that year.
4. Attendance of native students improved in 1972-73 as compared to the prior year 1971-72 but was not as good as in 1970-71 or 1969-70.
5. The students included in this analysis represent a diminishing proportion of the total school attending population as the analysis moves from 1967-68 to 1972-73. The observations made above assume that the sample group is representative of the total native population attending school from Kehewin.

Tablc 5 identifies the attendance differential between native and non-native students. The following observations can be made.

1. Generally, native children exhibit a pooxer school attendance pattern than non-native children.
2. Gonerally, the higher the grade the poorer their attendance.
3. Attendance in 1971-72 of native children relative to non-mative childron was poorer than other years as a consequence of the school strike.
4. Attendance of native children as compared to non-native children was relatively unchanged and perhaps even somewhat poorer in 1972-73 as compared to 1970-71.



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Though student progression was not of primary concern in the formulation of the original hypothesis some information on student progression can be readily extracted from the data. For example, Table 6 shows the rate of attrition of native and non-native students over a 6 year period starting in 1967-68. The attrition is due to graduation, withdrawals and transfers. The rate of attrition of native students is equal to that of non-native students. However, the major: reason for attrition of native students appears to be withdraval (quitting) while for non-native students it is transfers and graduation.

For native children there is a significant decline in enrollment between grade 8 and grade 9. This is evident across all 6 years on the chart. The diagonal line on the chart separates grade 8 enrollment from grade 9 enrollment for each year after 1967-68. The arrow which crosses the diagonal line identifies the change in enrollment that has occurred each year as students move from grade 8 to grade 9. Enrollment of non-native students does not show the same decline. Reference to the appendix shows the partial attendance levels of native students in their final school year and supports the fact that the decline in enrollment occurs between grades 8 and 9 . Significantly, this withdrawal from formal educational services appears to be coincident with the student reaching age 16 .

The student registries examined noted the pass, failure or special status of all students in the primary grades for the years 1967-68, 1968-69 and 1969-70. For the remaining years and for grades 7 through 12 information on student progression was not available from the registry document.

Tables 7 and 8 show for grades 1 through 6 the disposition of native ana non-native students for the 3 year period 1967-68 to 1969-70. The comments below draw on the summary data from each table.

Of the 93 native students enrolled in grades 1 to 6 in 1967-68, 77 or about $83 \%$ were still in Bonnyville schools in 1969-70. Out of a total of 90 non-native students enrolled in $1967-68,67$ or $74 \%$ were still in Bonnyville schools in 1969-70. The significant difference in attrition of the original native and non-native student enrollment populations is due to the high incidence of transfers among non-native students. About $17 \%$ of non-native students transferred out during the 3 year period as compared to $1 \%$ of native students.

The most irportant difference between the two groups of students is the high rate of failure and withdrawal among native students as conipared to non-native students. 48 students or $52 \%$ of the native students enrolled in 1967-68 in grades 1 to 6 advanced a grade each year during the 3 year period. On the other hand 44 students or $47 \%$ of the students had fallen at least one grade behind. of this group 32 had faijed at least once and 12 had withdrawn. The failure rate of native children at $34^{n}$ o is approximately twice as high as that of the non-native students during the same three year period. The withdraval rate, at $13^{\circ}$, is three times as high as for non-native students.

Though the information on .tudent progression covers only 3 of the 6 years am $80^{\circ}$ of the survey pombation (i.c. yrades 1 to 6 in $1967-68$ ) it would appear that the observations on student falures, withrawals and transfers during that 3 year perion is representative of the educational experience of both mative and mon-mat diluren.
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## Closing Remarks

Based on the data gathered for 6 years on students who first enrolled in 1067-68 the following closing remarks with respect to native and non-native students may be made:

## With Respect to Age

1. native students attending cach grade in Bonnyville schools are generally older than their non-native counterparts particularly in the more senior grades.

## With Respect to Attendance

2. native students generally have poorer attendance records than non-native students.
3. attendance patterns of native students in high grades are poorer than in lower grades. A similar pattern is not exhibited by non-native students.
4. there is a significant decline in enrollment of native students between grades 8 and 9 . This is coincident with reaching the school leaving age of 16 .
5. native school attendance was good during the two years 1969-70 and 1970-71, was poorer during 1971-72 because of the school strike and improved somewhat during 1972-73.
6. there appears to be no evidence (limited by the data gathering technique) to suggest that school attendance during 1972-73 had improved considerably over prior years and that this improvement could be attributed to the Total Community Development Approach as hypothesized.

Attendance among native children did improve in 1972-73 as compared to 1971-72 but certainly was no better than in 1969-70 and 1970-71 which were comparable years.

## With Respect to Stucent Progression

7. for the three yoars examined and for grades 1 to 6 the failure rate ( $34 \%$ ) among native students was twice as high as for non-native students.
8. the withdrawal rate ( $13 \%$ ) of native children is three times as great compared to non-native children.
9. $47 \%$ of the native children in grades $1-6$ in 1967-68 had fallen at least one grade behind by the end of the 1969-70 school year as compared to $23 \%$ of non-native children.
10. the age disparity of native students particularly in the more senior grades (point 1) supports the conclusions on student progression and sugest that histoxically the situation has not boci any differont than it is: today.

[^0]:    J.R. Trew

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