# AN EPIDEMIOLOGICAL COMPARISON OF RURAL VS. URBAN, AND NATIVE VS. NON-NATIVE, DENTAL HEALTH IN MANITOBA CHILDREN AGED SIX AND THIRTEEN YEARS 

## BY

BONNIE J. TRODDEN

A Thesis<br>Submitted to the Faculty of Graduate Studies in Partial Fulfillment of the Requirements for the Degree of<br>> DOCTOR OF PHILOSOPHY<br>Department of Anthropology<br>University of Manitoba<br>Winnipeg, Manitoba

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A Thesis submitted to the Faculty of Graduate Studies of the University of Manitoba in partial fulfillment of the requirements of the degree of

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#### Abstract

The purpose of this study is to compare the dental health status of two groups of Manitoba Native children, six and thirteen years of age, to studies of Manitoba White children of similar ages, and to determine whether whether any differences found are due to the often isolated rural environment in which they commonly live. The populations included in this study consist of both Native and White children living in rural communities in Manitoba, and a sample of White children living in an urban environment.

The first part of the study is a dental survey of the children belonging to the Swampy Cree Tribe and living on six reserves close to The Pas, in northwest Manitoba. The second part of the study looks at the Native children in central and northeastern Manitoba, primarily Ojibwa, who were treated by the Manitoba Children's Dental Program. Most studies of Canadian Native children have shown very poor overall oral health, with a dental caries rate three to four times higher than the general population. This study attempts to determine whether this problem of rampant decay is primarily the result of limited access to dental care found in the rural environment. The results of this study indicate that: first, in most measures of dental health status, there is a significant difference in the quality of dental health of Manitoba children at six and thirteen years of age, that follows a rural-urban, as well as an Native-White distribution. Second, there is a clear urban-rural dichotomy in the extent to which the treatment needs of Manitoba children are being met. The rural White children are only slightly better off than the rural Native children, and both are significantly worse off that are urban White children. There is more of a difference in the 6 -yearolds between the urban and rural White children than there is for 13 -year-olds. These results are consistent with the results of previous studies in which Native and rural children had significantly greater caries rates and fewer of their treatment needs were met, especially for younger children, 5-6 years of age. The implications of this research are that perhaps this is the appropriate framework within which to evaluate the delivery of dental health care, and perhaps health care in general, at least within Canada, a country in which the rural population is, for the most part, far more removed from the urban centres than is true of virtually any other country. Most of us presume that the general health status of Canadian Indians and Inuit is well below that of the predominantly White population, and that this is part of the overall pattern of neglect that has been accorded historically to Indian and Inuit people. What may not be so clear is the extent to which simple remoteness from urban centres of treatment may be an equally important variable. Certainly, there is evident need to improve the standards of health care for Canada's Native peoples, but this need should be assessed within the broader context of an urban-rural framework, rather than as simply one of ethnic neglect.


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Above all I wish to sincerely thank my advisor, Dr. William D. Wade, for his guidance, his encouragement, his remarkable patience, and in particular for his faith in me over the past many years. Yes Bill, there is life after Bonnie!

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CHAPTER I INTRODUCTION

## CHAPTER I INTRODUCTION

## A. PURPOSE

The purpose of this study is to compare the dental health status of two groups of Manitoba Native children six and thirteen years of age to studies of Manitoba White children of similar ages, and to determine whether any differences found are due to the often isolated rural environment in which they commonly live.

## B. THE POPULATION

The populations included in this study consist of both Native and White children living in rural communities in Manitoba, as well as a sample of White children living in an urban environment (Winnipeg). Unfortunately, a sample of Native children living in an urban environment was not available for this study. The native population in this study consists of two groups. The first part of the study is a dental survey of the children belonging to the Swampy Cree Tribe and living on six reserves close to The Pas, in northwest Manitoba. The second part of the study looks at the Native children in central and northeastern Manitoba, primarily Ojibwa, who were treated by the Manitoba Children's Dental Program.

The Cree and Ojibwa form the majority of the Native populations of Manitoba, which is considered part of the central subarctic. They represent two linguistically and culturally related groups. Their languages belong to the Algonkian family of Amerindian. Blood group studies and genetic-distance analyses suggest that these two "tribes" are very closely related (Szathmary and Ossenberg, 1978).

The Ojibwa, also called "Chippewa" and "Saulteaux" in northwestern Ontario and northeastern Manitoba, belong to the "Northern Ojibwa" branch of the Algonkian family. The related Indians living on the west coast of James Bay and Hudson Bay have generally been known as "Swampy Cree". Farther inland, they have also been referred to as "Woodland Cree" (Young, 1988:12-13).

## C. HISTORICAL BACKGROUND

## 1. GENERAL HEALTH

Among the early European explorers and traders who came into contact with the Indians of the subarctic, there was a consensus that the indians were in relatively good health. This state of health did not last long. The profound social and economic changes that occurred among the Indians after initial European contact were also associated with a marked deterioration in their health status. In the late eighteenth century and throughout the nineteenth century, famines and epidemics appeared in the northern forests with alarming frequency. A drastic reduction in the Indian population threatened the very existence of many bands. By the beginning of the twentieth century the poor physical condition of the Indians in the north was marked (Eaton and Konner, 1985:285).

Any description of Indian health prior to the arrival of Europeans and recorded history is mainly conjectural. There are scant paleopathological data from the Canadian subarctic region to shed light on the occurrence of specific diseases among Indians in pre-contact times. Studies of the contemporary hunter-gatherers in different parts of the world can be applied to prehistoric Algonkians, making allowances for the different ecological circumstances. One could assume that the Indians probably consumed a high-protein diet based on meat and fish and rarely suffered from chronic malnutrition, although acute starvation as a result of hunting failure did occur from time to time (Trowell and Burkitt, 1981:32). In terms of dental health, Grant (1960:315) reported that "their teeth, of a beautiful ivory white, (were) regular well set and seldom (failed) them, even with the most advanced period of life."

## 2. NUTRITIONAL STATUS

Prior to the fur trader, refined carbohydrates were largely absent from the diet of subarctic Indians, and the rate of dental caries was relatively low. With the establishment of trading posts, European foods such as flour, oatmeal, sugar, lard, and tea were introduced. After the Second

World War, the tendency toward permanent settlement and the abandoning of hunting and trapping led to a dependence on store-bought foods. An investigation by Winterhalder et al. in 1975 found that the ten most common imported foods by weight were: white sugar, evaporated milk, wheat flour, soft drinks, white bread, eggs, lard, canned luncheon meat, potatoes, and preserved meats. These items accounted for 55 per cent of the total imported food. While imported foods are an important source of carbohydrates and calcium, they are, on the whole, very high in fat content and contain ten times the sodium content of local foods. As well, the increased amount of refined sugar in the diet has led to a dramatic increase in the rate of dental caries.

Two health and nutrition surveys were conducted in the 1940's among the Cree and Ojibwa Indians in northern Manitoba (Moore et al., 1946) and the James Bay coast (Vivian et al., 1948). The dietary records of the Indians examined ( 215 children and adults from Norway House and 728 children and adults from four bands living around James Bay) showed deficient intake of calories and most types of nutrients, far below the recommended allowances of the time. They also suffered from an excessively high rate of disease, particularly tuberculosis and childhood infections. The findings of these two teams, both composed of public-health and nutrition experts, underscored the plight of the Indians, and gave impetus to the massive government intervention in the post-war years.

In the four decades since the end of the Second World War, rapid changes have occurred in subarctic Canada. Government involvement in the areas of health care, social assistance, education, and economic development has increased substantially. While these efforts resulted in increasing the dependence of Indian communities on external Euro-Canadian institutions and personnel, they nevertheless assured a basic level of living that was superior to that of the 1940's and before (Young, 1979:200).

Compared to the 1940's, the nutritional status of Indians in the subarctic has greatly improved, at least in terms of adequacy of calories. In the 1970's and 1980's, malnutrition was rare, but by no means absent. The most common condition was iron-deficiency anemia, followed by
unspecified malnutrition. In the early 1970's the Department of National Health and Welfare conducted a national nutrition survey, which included the Inuit and Indians as well. In the Indian survey, about 1,800 Indians from twenty-nine bands across the country, both rural and urban, were examined, although the participation rate was rather low, at 30 per cent. In this survey, Canadian Indians were found to be comparable to the national population in terms of intake of calories, proteins, and vitamin B . The median intake of vitamin C , however, was below the national sample but still above the established standards of adequacy. Within the Indian sample, those living in remote areas had considerably lower intakes than those living closer to urban centers. The intakes of vitamins A and D were also lower among Indians than Canadians nationally (Nutrition Canada Survey, 1975).

While figures for the 1980's are not readily available, Young (1991) has found that imported store foods are even more important in the diet of the Indians in the subarctic. The lack of refrigeration facilities, the high costs of transportation, and a near-monopoly situation for food suppliers, mean that food that is sold in Indian reserves is generally of poor quality, rarely fresh, and prohibitively expensive. Fresh fruits, vegetables, and dairy products are seldom seen on the shelves. Many people, children in particular, have developed a preference for sweetened carbonated drinks and various snacks of very little nutritional value, and extremely harmful to the dentition. Ironically, these items are rarely out of stock. The immediate consequences nutritionally can be seen in their deplorable dental-health status, while the long term effects have yet to be assessed.

## 3. DENTAL HEALTH

In a Sioux Lookout Zone survey, conducted between 1972 and 1981, a complete physical examination was performed. The proportion of subjects with abnormalities ranged widely from about 1 per cent in central nervous system, heart, and external genitalia, to over 80 per cent in the oral cavity, the latter mainly as a result of the extent of dental disease (Young, 1979:222).

The extent of dental problems was evident from the fact that just under half of the subjects reported problems in the oral cavity and about a quarter complained specifically of toothache. (Hargreaves and Titley, 1973:712). All available school children (174) were examined in three communities considered to be representative of the Sioux Lookout Zone. Dental caries was present in 72 per cent of deciduous teeth, and missing teeth were found in 67 per cent of those examined. Overall, about 60 per cent of the individuals required consultation with a dentist (Titley and Bedard, 1986).

The DMFT (the total number of decayed, missing and filled permanent teeth) and Russell indices (which measure periodontal health), indicated an extremely high level of dental disease in the population, which far exceeded that of other Canadians of a comparable age. A smaller scale follow-up survey in one community (Sandy Lake) in 1983, showed very little improvement in the dental-health status of children, despite more than a decade of intensified dental services in the communities (Titley and Bedard, 1986:925).

The chief source of water supply for Indian households is the lake or river near which most communities are located. Indoor running water is almost totally absent from Native homes. Most people carry their own water from the lake by pail, while in some communities water is trucked in or distributed through standpipes in the street. A few communities have wells in operation. Local soil and rock features in individual communities determine whether it is economically feasible to drill a well. Within the Canadian Shield, the presence of large outcroppings, of primarily granite bedrock, influence the type of sanitation systems that can be installed (Campbell, 1980). As a result community-wide fluoridation of the water supply is usually not possible. In a few communities the school water supply has been fluoridated, but this type of fluoridation has virtually no impact on
the deciduous teeth as they have all completed development prior to the child starting school. The effects on the permanent teeth are primarily topical, as the crowns of the permanent anterior teeth and first molars have completely calcified by the age of six years. As a result, the teeth of Native, and other, children living in these communities are much more susceptible to dental caries than children living in urban centers who enjoy the benefits of community water fluoridation, as well as much greater access to dental services. Many children have had several deciduous teeth extracted by the age of 3-4 years.

Other studies of Canadian Native children have shown similarly poor oral health compared to the general population. A study by Shaw et al. (1987) of 406 Cree children in Quebec aged four to fourteen years, found the rate of decay to be significantly higher than the general population, and the proportions of decayed teeth and missing teeth were approximately $30 \%$ and $\mathbf{2 0 \%}$ respectively, with only $20-40 \%$ of the teeth being filled. A similar study by Klooz (1988) in Saskatchewan of 600 Native children five to eighteen years, found the caries rate to be three to four times higher than the general Saskatchewan population in 1985, with less than half of the decayed teeth being filled. A follow up study in 1987 found a significant decrease in the deft (decayed, indicated for extraction due to caries, and filled deciduous teeth) and DMFT (decayed, missing due to caries, and filled permanent teeth), as well as a significant increase in the proportion of teeth filled. The improvement is attributed to the program of treatment implemented by the provincial government utilizing dental therapists.

Studies which have looked at the dental health of Inuit children in the Northwest Territories and Alaska (Curzon and Curzon, 1979; Gagnon et al., 1990; Jones and Schlife, 1990) all showed very high rates of decay, much higher than for the general population of the same area. Curzon and Curzon surveyed 766 Inuit children three to nine years of age. The mean deft in the $3-5$ year-old sample was 5.27 . For the children aged $6-9$ years, the overall mean score was 6.85 (Curzon and Curzon, 1979:170). Gagnon et al. examined 411 children between the ages of 5 and 17 years. For the largest group, 10-14 years-old, the DMFT ranged from 10.8 at 10 years of age, to 18.4 at 14 years of age (Gagnon et al., 1990:681).

Jones and Schlife compared 708 Native and non-native, rural and urban children, between 3-5 years of age, in the Head Start program in Alaska. Only 22\% of Native children were caries free, while $65 \%$ of non-Native children had no caries. Rural children had significantly higher caries rates as well, with only $20 \%$ being caries free, while $50 \%$ of urban children had no caries. Jones and Schlife did a logistic regression analysis to attempt to derive possible predictors of caries status. Four factor were identified which accounted for $62 \%$ of the variability: 1) race - caries rates were four times higher in Native children, 2) community - rural children have approximately three times the caries rate, 3) father's working status - caries probability in children is $90 \%$ higher if the father does not work, and 4) mother's schooling - caries decreases $20 \%$ for every year of mother's schooling (Jones and Schlife, 1990:661).

None of these studies compared the Native samples to a sample of White children living in the same environment. No intra-population statistical comparisons were done. Only an analysis of inter-population differences was explained.

This study attempts to determine whether this problem of rampant dental decay is primarily the result of the limited access to dental care found in an isolated rural environment. An understanding of all the causal factors related to dental caries is very complex, and an explanation of all these factors is beyond the scope of this study.

Because of numerous restraints, this study is not considered to be an "ideal" comparative study. Politically, Native populations are very reluctant to be surveyed. For this reason, available data were used for the Manitoba Children's Dental Program sample. The charting procedures employed by MCDP are very thorough and well standardized, although several different examiners were involved. The study of rural and urban White children (Cageorge et al, 1978), is used because it is felt to be the best available study (Cooney, 1989) and consists of a truly representative sample, which would be difficult to duplicate with the resources available. Although the Cageorge et al. study surveyed 5 -year-old children (born in 1971) and the other data sets looked at six-year-olds, the difference in age is, in reality, only six months on the average, because of the difference in criteria used. Extensive consultations were also done with the
individuals directly involved with the different sources of data to ensure that the comparisons between the data sets are as rigorous as possible.

CHAPTER II MATERIALS AND METHODS

## CHAPTER II

## MATERIALS AND METHODS

## A. INTRODUCTION

Part of the data upon which this thesis is based was derived from a dental survey done as part of a program evaluation authorized by the Board of Directors of the Swampy Cree Tribal Council. The survey was conducted during the spring of 1988 by Dr. Lisa Cohoe, the dentist employed by the Swampy Cree Tribal Council (SCTC).

The remaining data came from northern Manitoba communities serviced by the Manitoba Children's Dental Program (MCDP). This program is funded by the Provincial Government, Department of Health, and employs Dental Therapists and Dentists who operate a school based program of dental services. These two rural Native groups were compared to the 1976 study of Manitoba White children which included both a rural and urban sample (Cageorge et al., 1978).

## B. SWAMPY CREE TRIBAL COUNCIL DENTAL SURVEY

## 1. INTRODUCTION

The Swampy Cree Tribal Council Dental Program is a program funded by Medical Services Branch and National Health and Welfare and by the Manitoba Children's Dental Program of the Manitoba Department of Health. Begun in the mid seventies, this program delivers communitybased dental treatment to two target groups:
a. Status Indians living in Swampy Cree Tribal Council communities.
b. School age children within the age group of the Manitoba Dental Program, both treaty and non-treaty, living in SCTC communities and attending schools within these communities.

The Swampy Cree Tribal Council Board of Directors approved an evaluation of the program on March 20, 1987. Concerns had been raised at the Tribal Council and in the funding agencies
regarding consistency of the program, the ability to attract dentists to the program, the licensing and use of dental paraprofessionals such as dental nurses and dental therapists in the program and the overall effectiveness of the program in delivering service. The evaluation, requested by the Board of Directors was to look at both the administration and management of the program in terms of types of staff, reporting system, goals and objectives, etc., and also on the performance of the program over its life in terms of dental treatment in the community.

There were two main objectives for the program review:
a. To assess the program and its structure
b. To suggest changes in delivery of the program in order to deliver the best possible dental treatment to the Swampy Cree Tribal Council communities.

A major component of the program review was the dental survey which was designed to determine the dental needs of the population. The survey was very extensive, involving the collection of demographic data, utilization of dental services, a history of fluoride exposure, oral pathology, occlusion, and charting of decayed, missing and filled teeth for two groups of children, six- and thirteen-year-olds, from the six reserves serviced by Dr. Cohoe: Easterville, Grand Rapids, Moose Lake, Pukatawagan, Pelican Rapids and The Pas. Indian Birch was not included as there is no dental clinic available on this reserve (Table 1).

## 2. SAMPLE

Six- and thirteen-year-olds were selected as the target population in accordance with the World Health Organization's recommendations (WHO, 1977).

|  | TABLE 1. | SWAMPY CREE POPULATION |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
|  | On Reserve | In Community | Total | Est. \# | Est. \# |
|  |  |  |  | 704 | 12 |
| $(13-y r)$. | $(6-y r)$. |  |  |  |  |
| Easterville | 474 | 230 | 12 |  |  |
| Grand Rapids | 370 | 645 | 1,015 | 18 | 18 |
| Moose Lake | 351 | 580 | 931 | 16 | 16 |
| Pelican Rapids | 450 | 219 | 669 | 12 | 12 |
| Pukatawagan | 1,234 | 49 | 1,283 | 22 | 22 |
| The Pas | 1,328 | - | 1,328 | $\underline{23}$ | $\underline{23}$ |
|  |  |  | 5,930 | 103 | 103 |

Children whose sixth or thirteenth birthday occurred between April 1, 1987 and March 31, 1988 were eligible for inclusion in the survey.

Estimates of the number of six- and thirteen-year-olds were made based on 1981 Manitoba population statistics. Children in these age groups constitute $1.75 \%$ of the total population (Cooney, 1989).

An attempt was made to examine all the children in each age group. The children in the survey were selected from school records. If there were children in the school records who were not attending school, attempts were made to contact their guardians or parents to have them come in for the survey. There were a few 6-year-olds in Pukatawagan who were not attending school and, although they were contacted, did not show up for their appointments. It was estimated by Dr. Cohoe that between 90 and $100 \%$ of the six- and thirteen-year-old population were included in the survey (Cohoe, 1989). The total number of children in each age group was 108.

The methodology was similar to that of the 1976 and 1982 surveys of Manitoba urban and rural children which used the Combined Oral Health and Treatment Assessment protocol published by the World Health Organization in 1977. All data were compared to the Dental Health Survey of Manitoba Children 1976 (Cageorge et al., 1978), in particular, rural Manitoba children five and thirteen years of age, as the results for rural Manitoba children in 1976 are the most comparable to the SCTC population. A copy of the survey form used is included (see Appendix A).

## 3. SURVEY FORMAT

## a. General Information

Each child included in the survey was identified by a registration (examination) number in order to maintain confidentiality of the personal and clinical information collected.

The personal information recorded included the age of each child, sex, birthdate, grade in school, and location name (reserve). Department of Indian and Native Affairs (DIAND) numbers were also recorded for each child but were not used in any way in the analysis of the data. Permission was obtained verbally from the parent or guardian prior to the survey examination. The number of children included in the survey by reserve is shown in Table 2.

## b. Service Utilization

Four questions were asked of each child examined. The responses were coded as follows:

1. How often do you visit the dentist?
$1=1$ or more times per year
2 = once per 2 years
3 = once per 3 years
4 = once per 4 years or more
5 = don't know
2. Why do you see the dentist?

1 = toothache
$2=$ examination
3 = cleaning
$4=$ filling
$5=$ root canal
$6=$ other
7 = don't know

| TABLE 2. SWAMPY CREE DENTAL SURVEY <br>  <br> POPULATION |  |  |
| :--- | :---: | :---: |
| RESERVE | 6-year-olds | 13-year-olds |
| Easterville | 15 | 14 |
| Grand Rapids | 21 | 14 |
| Moose Lake | 15 | 24 |
| Pelican Rapids | 11 | 11 |
| Pukatawagan | 14 | 22 |
| The Pas | 32 | 23 |
| N | 108 | 108 |

3. Why do you not see the dentist more often?
$1=$ afraid
$2=$ service not available
3 = nothing wrong
4 = don't like
$5=$ other
$6=$ don't know
4. Where do you go to see the dentist now?

1 = on reserve
2 = nearby community
3 = Winnipeg
4 = don't know

## c. Disorders of Mucosa, Teeth and Bone and other Conditions

This section included a variety of abnormal conditions which may be present, involving the soft tissues of the oral cavity, defects in the enamel of the teeth, or pathology present in the alveolar bone surrounding the teeth.

Oral Mucosa
Conditions such as gingivitis, stomatitis, lichen planus, leukoplakia, candida, herpes, etc., were recorded as present or absent.

## Defects of Teeth

The presence or absence of defects such as supernumerary teeth, hypoplasia, fractures, erosion, abrasion, attrition were recorded.

## Disorders of Bone

Pathologies such as a radicular cyst, osteoma, osteomyelitis, odontogenic tumors were recorded as present or absent.

## Fluorosis

The worst tooth was recorded using the following criteria: (WHO, 1979:17)
0 (Normal) The enamel presents the usual translucent, semi-vitriform type of structure. The surface is smooth, glossy and usually of a pale creamy white colour.
1 (Questionable) The enamel discloses slight aberrations from the translucency of normal enamel, ranging from a few white flecks to occasional white spots. This classification is utilized in those instances where a classification of "Normal" is not justified.
2 (Very Mild) Small, opaque, paper-white areas scattered irregularly over the tooth but not involving as much as approximately 25 percent of the tooth surface. Frequently included in this classification are teeth showing no more than about $1-2 \mathrm{~mm}$. of white opacity at the tip of the summit of the cusps of the premolars or second molars.
3 (Mild) The white opacity of the enamel of the teeth is more extensive but does not involve as much as 50 percent of the tooth.
4 (Moderate) All enamel surfaces of the teeth are affected, and surfaces subject to attrition show marked wear. Brown stain is frequently a disfiguring feature.
5 (Severe) All enamel surfaces are affected and hypoplasia is so marked that the general form of the tooth may be affected. The major diagnostic sign of this classification is the discrete or confluent pitting. Brown stains are widespread and teeth often present a corroded appearance.

## Optimal Fluoride Exposure

Fluoride exposure was recorded as being either optimal (1) or not optimal ( 0 ), based on the number of years the child was exposed to fluoridated water only. Other sources of fluoride were not taken into account in this section.
$1=$ for 6 -year-olds $-41 / 2$ years exposure was considered optimal
for 13-year-olds - from 3-13 years exposure inclusive
$0=\quad$ (for both ages) anything less than above

## Fluoride Rinse Program

Each parent or guardian was asked the following questions:

1. Does your child participate in a weekly fluoride rinse/tablet program at school? The response was coded yes or no.
2. Has the Consent Form for rinse/tablet program been filled out? The response was coded yes or no
3. How many years has he/she participated? The responses were coded from

1 to 5 to indicate the number of years (1 to $5+$ )

## d. Prosthetic Status

If the child had either a full or partial denture, or required either a full or partial denture, this information was coded as follows:
$0=$ no denture

1 = denture wearing (required)
2 = denture not wearing (repair, reline required)
As no children had, or required dentures, this section was used instead to record the presence or need for space maintainers.

## e. Community Periodontal Index of Treatment Needs (CPITN)

The CPITN was used to assess the extent of periodontal disease (Ainamo et al., 1982).
Five codes were used to evaluate each of the six sextants of the oral cavity:
$0=$ healthy periodontal tissues
$1=$ bleeding after gentle probing
2 = supra- or subgingival calculus
3 = a pocket of 4 or 5 mm ., black band of calculus partially visible
4 = a pocket $\geq 6 \mathrm{~mm}$., black band of calculus not visible

## f. Dentofacial Anomalies and Occlusion

Dentofacial anomalies such as gross defects in appearance, masticatory function, or pathology were recorded as :
$0=$ absent
$1=$ present
2 = treatment required

The molar relationship was recorded as:
1 = Angle's Class I
2 = Angle's Class II
3 = Angle's Class III

The Overjet was recorded as::
$1=$ normal ( 2 mm .)
$2=$ Increased ( $>2 \mathrm{~mm}$.)
3 = Decreased (<2 mm.)

The Overbite was recorded as:
$1=\operatorname{Normal}(20 \%)$
$2=$ Increased ( $>20 \%$ )
3 = Decreased (<20\%)

Crowding was recorded as either present (1) or absent (0).

## g. Conditions Needing Immediate Treatment

The following four items were checked as either present (needing immediate treatment) or absent (no immediate treatment required):

1. Relief of pain or infection
2. Treatment for lesions likely to cause pain or infection in the immediate
future
3. Treatment of pulpally involved teeth
4. Other (specify)

As a general rule conditions in this section should be recorded only if there is an obvious immediate need for treatment. The items listed on the form are self-explanatory. Reliance is placed on the clinical judgement of the examiner to decide whether emergency treatment is required. By immediate attention is meant that, in the judgement of the examiner, pain or infection will result unless treatment is provided within a month.

Examples of conditions that require immediate attention for the relief of pain or infection include; acute periapical abcess and acute necrotizing ulcerative gingivitis.

Examples of lesions likely to cause pain or infection in the immediate future unless prophylactic treatment is instituted include: chronic alveolar abcesses in children and gross caries.

The need for treatment of pulpally involved teeth should be recorded only when there is obvious evidence of pulp exposure in a tooth that apparently can be satisfactorily restored with a filling or a crown. A probe should never be inserted into the depth of a cavity to confirm the presence of a suspected exposure.

## h. Dental Caries Status and Treatment of Teeth

All teeth were coded as to whether they were deciduous or permanent, whether they were sound, decayed, missing or filled, and for the type of treatment required. The recording form is included in Appendix A .

## h. 1 Coding System

A numerical coding system was used for permanent teeth and an alphabetical coding system for primary teeth to record the status of each tooth (Table 3). A box was numbered for each primary and permanent tooth with the first five boxes in each row used for both the primary and permanent dentitions, whichever was present, either the primary molars or permanent premolars, primary or permanent canines, and primary or permanent incisors The last three boxes in each row were reserved for the permanent molars. The distinction between deciduous and permanent teeth was made solely by the use of the alphabetical (for deciduous) or numerical (for permanent) coding. An entry was made in every box on the chart.

## CRITERIA FORCODING (WHO, 1979:7-9; WHO, 1977:38-40)

(i) Sound Tooth ( A or 0 ) A tooth is recorded as sound if it shows no evidence of treated or untreated clinical caries.
(ii) Decayed Tooth (B or 1) Caries is recorded as present when a lesion in a pit or fissure or on a free smooth tooth surface has a detectably softened floor, undermined enamel or a softened wall, or the tooth has a temporary filling. On approximal surfaces, the explorer enters a lesion with certainty. Where any doubt exists, caries should not be recorded as present. The stages of caries that precede cavitation as well as other conditions similar to the early stages of caries are deliberately excluded because they cannot be diagnosed positively and reliably. Defects not to be counted as caries in the absence of other positive criteria are:

- White or chalky spots
- Discoloured or rough spots
- $\quad$ Stained pits or fissures in the enamel which catch the explorer but do not have a detectably softened floor, undermined enamel, or softening of their walls.
(iii) Filled Tooth with no decay (C or 2) Teeth are considered filled without decay whenever one or more permanent restorations are present and there is no secondary (recurrent) caries or other areas of the tooth with primary caries. A tooth with a crown placed because of previous decay is recorded in this category. A tooth that is crowned for reasons other than decay, eg. trauma, or as a bridge abutment, is recorded as EXCLUDED, and coded X or 9 .
(iv) Filled Tooth with primary decay ( D or 3) A tooth is scored as filled with primary decay when it contains one or more permanent restorations and also one or more areas that are decayed but have no physical association with the restoration(s). A tooth with a temporary filling should be coded as DECAYED (B or 1).(A fissure or pit can only be recorded as decayed if, following moderate pressure on the explorer, it will remain in the pit or fissure without any digital support).
(v) Filled Tooth with secondary decay (E or 4) A tooth is scored as filled with secondary decay when it contains one or more permanent restorations, and there is secondary decay (in physical contact with the restoration[s]). If a tooth is filled and contains both primary and secondary decay it should be recorded in this category.
(vi) Primary Tooth missing due to caries (Under 9 years only) (M) This score is used only for primary teeth missing at an age when normal exfoliation would not be a sufficient explanation for absence.
(vii) Permanent Tooth missing due to caries (Under 30 years) (5) This score is used only for permanent teeth, and for persons under 30 years of age. In as much as very few teeth are extracted because of periodontal diseases in persons under 30 years, all extracted teeth (except those included under the category 6) in persons up to the age of 30 should be recorded as having been extracted because of caries.

One problem that may be encountered, particularly in some age groups, is distinguishing between unerupted teeth (Code 8) and teeth extracted because of caries. Basic knowledge of tooth eruption patterns, the status of the corresponding contralateral tooth, the appearance of the alveolar ridge in the area of the tooth space in question, and the caries status of other teeth in the mouth may provide helpful clues in making a differential diagnosis between unerupted and extracted teeth. Code 5 should not be used for extracted or exfoliated primary teeth nor for adults 30 years of age or older.
(viii) Permanent Tooth missing for reasons other than caries (Under 30 years) (6) This score is used for permanent teeth judged to be absent congenitally or extracted because of orthodontic reasons.
(ix) Permanent Teeth missing for any reason (30 years of age and older) (7) This score is also used for permanent teeth. Since it becomes extremely difficult to ascertain whether permanent teeth in older persons have been extracted because of dental caries or because of periodontal disease, all extracted teeth in persons 30 years of age or older are arbitrarily coded 7.
(x) Unerupted Teeth (8) This classification is restricted to permanent teeth and used only for a tooth space with an unerupted permanent tooth, and no primary tooth, present. Teeth scored as unerupted are, of course, excluded from all calculations concerning dental caries. For differential diagnosis between extracted and unerupted teeth see section (vii) above, permanent tooth missing owing to caries.
(xi) Excluded Tooth (X or 9) A permanent tooth or primary tooth should be excluded from any calculations concerning dental caries if it has been restored for reasons other than caries such as trauma, cosmetic purposes, or as an abutment for a bridge.

| TABLE 3. TOOTH | CODING SYSTEM (WHO, 1977) |  |
| :---: | :---: | :---: |
| Sound Tooth | A | 0 |
| Decayed Tooth | B | 1 |
| Filled Tooth (no other decay) | C | 2 |
| Filled Tooth (with primary decay) | D | 3 |
| Filled Tooth (with secondary decay) | E | 4 |
| Primary Tooth prematurely missing |  |  |
| due to caries (under 9 years only) | M | - |
| Permanent Tooth missing due to caries | - | 5 |
| Permanent Tooth missing due to reasons |  |  |
| other than caries | - | 6 |
| Permanent Tooth missing for any reason | - | 7 |
| Unerupted Tooth | - | 8 |
| Excluded Tooth | X | 9 |

## TREATMENT REQUIREMENTS OF TEETH

This section was completed when the examination for dental caries was being done, that is, when the caries status of a tooth is recorded the type of treatment required, if any, should be recorded next, before going on to the next tooth space. If no treatment is required, a "zero" is place in the appropriate treatment box. The codes and criteria used are as follows (WHO, 1977:5152):

Code $0=$ None. This code is recorded if a tooth is sound, or if it is decided that a tooth cannot or should not receive restorative treatment (filling or crown). Moreover, this code is used only if the tooth is not indicated for extraction, because of periodontal disease, prosthetic reasons, orthodontic reasons, traumatic injury, or for any other reason.

Codes 1, 2, 3, or 4 = Restorations and Crowns. Depending on how many surfaces will be involved for restoration, one of these codes should be used to designate treatment required to remove primary or secondary caries, to repair damage because of trauma, or to replace unsatisfactory fillings. Discoloration of a tooth because of trauma, a pulpal condition or a developmental defect may also be a reason for restoration. Replacement of a filling or crown should be recorded in the absence of caries when there is one or more signs of the following:
a) a deficient margin to an existing restoration that is likely to permit leakage into dentine. The decision as to whether or not a margin is deficient should be based on the examiner's clinical judgement, on evidence gained by the insertion of an explorer at the margin, or on the presence of severe staining of tooth structure
b) an overhanging margin of an existing restoration of a dimension that causes obvious local irritation to the gingivae and cannot be removed by recontouring the restoration.
c) afracture of an existing restoration that either causes it to be loose or permits leakage into dentine.

Code 5 = Extraction for Caries. A tooth is recorded as indicated for extraction because of caries, depending on treatment possibilities, when:
a) caries has so destroyed the crown that it cannot be restored;
b) caries has progressed to an extent that there is an obvious and open exposure of the pulp, or
c) only the roots remain.

A single tooth may be indicated for extraction for more than one reason for caries and periodontal disease, for example. In such cases, the examiner should attempt to decide the major reason for extraction and record that reason only.

Code $6=$ Extraction for Periodontal Disease. A tooth is recorded as indicated for extraction because periodontal disease has progressed so far that the tooth is loose or functionless and, in the clinical judgement of the examiner, cannot be restored to a firm and functional state by periodontal therapy.

Code 7 = Extraction for Prosthetic Reasons. A tooth should be recorded as "indicated for extraction for prosthetic reasons" when it does not specifically require extraction because of caries or periodontal disease, but rather because a full denture is planned. These teeth individually could be restored or conserved, but, because there are too few for proper function, extraction for a prosthesis is the only possible treatment.

Code 8 = Extraction for Other Reasons. A tooth is recorded as indicated for extraction for other reasons when extraction is required for orthodontic reasons, for a developmental defect, impaction, or for cosmetic purposes.

Code $9=$ Other. This category is used for any other treatment not specifically covered by codes 1 to 8 . Examples that might be included in this category are removal of gross overhangs, replacement of pontics of bridges, splints for loose teeth, removal of occlusal interference on restorations might be included in this category. Note, however, that treatment of pulpally involved teeth is included in section VII Conditions Needing Immediate Treatment.

## C. MANITOBA CHILDREN'S DENTAL PROGRAM SURVEY

## 1. INTRODUCTION

Charts were used from several schools in northern Manitoba where the children were treated by dental therapists employed by the Manitoba Children's Dental Program. These schools were chosen because the population of each school was almost exclusively of Native origin (Plett, 1989).

## 2. SAMPLE

## AGECRITERIA

For 13-year-olds, children born in 1974 or 1975 (January to December inclusive) were surveyed. These children entered the MCDP in Sept. 1981 or 1982 at ages varying from 5 yrs. 8 months. to 6 yrs. 8 months. They remained in the program for 8 yrs. and 4 months, leaving the program in December 1989 or 1990 respectively, at ages varying from 14 yrs. 0 months to 14 yrs. 11 months.

For 6-year-olds, children born in 1981 or 1982 (January to December inclusive) were surveyed. Occasionally, kindergarten children were screened at four or five years of age. Severe
cases were often treated and some children seemed to stay in the program continuously after this. Data were collected for these children at the examination closest to their sixth birthday. The sample for both six- and thirteen-year-olds is shown in Table 4.

## 3. SURVEY FORMAT

## a General Information

This section was recorded in the same way as the SCTC data. The examination dates used were the first and last appointment that the child was seen in the year in which they were 6 or 13 years old. These dates, along with the birthdate, were used to determine their exact age at the time of the examination. A child may have been seen the previous or following year, when they were 5 or 14 yrs., but none of this information was recorded, i.e., the chart was only 'read' up to this date. This study only looks at the initial examination data, as these results are the most comparable to the SCTC data.

## b. Service Utilization

No information was available to record in this section. It is not known if the child was seen somewhere else in the years that were missing on a chart. The children tend to move around a lot and the MCDP has no method of keeping track of children who move, perhaps to live with another relative or foster parent, and then reappear in the program in another school, or whether children are seen by a private dental practitioner, except when referred by MCDP.

| TABLE 4. | Manitoba Children's Dental P |  |  | Program Sample |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year of Birth | 1981 | 1982 | 1974 | 1975 | Total |
| Age | 6 yr | 6 yr . | 13 yr . | 13 yr . |  |
| Barrows Junction | 3 | 3 | 6 | 6 | 18 |
| Berens River | 18 | 25 |  | 3 | 46 |
| Cormorant | 7 | 6 | 7 | 16 | 36 |
| Julie Lindal | 1 | 2 | 4 | 3 | 10 |
| Matheson | 4 | 4 | 4 | 1 | 13 |
| Pikwitonei |  | 6 |  | 1 | 7 |
| Pine Dock | 3 | 4 | 1 | 3 | 11 |
| San Antonio | 3 | 3 |  | 2 | 8 |
| Thicket Portage | 5 | 3 | 4 | 3 | 15 |
| Wabowden | 7 | 12 | 9 | 11 | 39 |
| Wanipigow | 6 | 12 | 12 | 21 | 51 |
| TOTAL | 57 | 80 | 47 | 70 | 254 |

c. Disorders of Mucosa Teeth and Bone and other Conditions

Oral Mucosa:
Specify: Only general comments were made on the charts re: oral hygiene, scaling, etc. These were noted here.

Treatment: "prophy \& FI, and OHI" (prophylaxis, topical Fluoride treatment and oral hygiene instruction) were done for most children. If so, "preventive" was recorded in this section. If scaling was recorded on the chart, it was noted as well.

## d. Prosthetic Status

No information was recorded on the charts. This most often indicates a lack of need. This section was used to record the presence or the need for Space Maintainers, either upper or lower, partial (one side) or complete (both sides).

## e. Community Periodontal Treatment Needs Index (CPITN)

Unfortunately, no information was recorded in the charts for this section other than if the child required scaling, or their oral hygiene was noted as being good, fair, or poor.

## f. Dentofacial Anomalies and Occlusion

Angle's molar classification was recorded as well as overjet and overbite for all children. Crowding was marked occasionally but not systematically enough to be useful. Midline shifts, cross-bites, and spacing were sometimes recorded. There is a space on the chart to record Cleft lip/palate but no cases were recorded. No other dentofacial anomalies were recorded.

## g. Conditions Needing Immediate Treatment

This section was recorded in the same manner as the SCTC data. As the 13 -year-old children had been in the program for several years, in most cases treatment was completed for each child in the previous year, so that no urgent treatment was noted. The 6 -year-olds. however, were just entering the program at this point so that their treatment needs were often more urgent.

## h. Dental Caries Status and Treatment of Teeth

Bite-wing radiographs were taken routinely for each patient every year or two. If they were taken at the examination (when the child was 6 or 13 years old) they were noted as yes " 1 " in Column 65. The radiographs were used to confirm restorations completed and the eruption of teeth.

For 13-year-olds, if a tooth were filled and caries free requiring no treatment, rather than recording a code of " 20 " (filled-no treatment), it was recorded " $21,22,23$, or 24 " to indicate the number of surfaces filled. This was done in order that a DMFS could be determined.

For 6-year-olds, the codes " $\mathrm{C} 1, \mathrm{C} 2, \mathrm{C} 3$, or C 4 " were recorded to indicate the number of surfaces filled in order to determine a defs.

Preventive Resin Restorations were considered to be fillings. They have been done in the MCDP for about 4 years. They are used to fill fissures which are discoloured or tacky but not decayed. The fissure is cleaned out with a high-speed round bur (usually \#4) to a depth of less than 2 mm . If there is no decay, the fissure is cleaned, etched, washed, and a filled resin is applied. This is followed by an unfilled resin (sealant). The MCDP has done an internal review to see when and how many preventive resin restorations were being done. In about $15 \%$ of cases the fissure ended up being carious and an amalgam was placed instead.

Unerupted Teeth:
Radiographs were used if possible to determine the eruption status of premolars and second molars, and to check for fillings not completed by MCDP. Third molars were seldom visible on the bite-wings. They were recorded as " 80 " in all cases.

For 6 -year-olds only bite-wings were usually available. If current, they were used to assess eruption of first molars. The code "X0" was used for anterior teeth if the deciduous anterior teeth were recorded as missing (exfoliated) on the chart and there was no way of assessing the eruption status of the permanent anterior teeth. The code "X0" was also used if the eruption status of the first molars was unknown.

Missing Teeth:
For 6-year-olds:
Code "M5" was used for a tooth extracted by MCDP due to caries.
Code "M0" was used if tooth extracted elsewhere-history unknown

- if a space maintainer was present or not required

Code "M8" was used for a deciduous tooth extracted for orthodontic reasons.
Code "M9" was used for a missing deciduous tooth where a space maintainer was required.

Code "N9" was used for a deciduous tooth congenitally missing or gemination.
Code "A8" was used for a tooth requiring extraction because of a lack of space (for orthodontic reasons) rather than for caries.

## For 13-year-olds:

Code "68" was used to designate teeth extracted for orthodontic reasons, or where there was no space, or ectopic eruption.

Code "69" was used if the permanent tooth was known to be congenitally missing.

Code "08" was used for a tooth requiring extraction because of a lack of space for orthodontic reasons (no caries).

CHAPTER III. DESCRIPTION OF MANITOBA RURAL NATIVE DATA RESULTS

## CHAPTER III DESCRIPTION OF MANITOBA RURAL NATIVE DATA RESULTS (SCTC + MCDP)

## A. INTRODUCTION

This chapter describes the results of the data collected for both the SCTC and the MCDP for 6 - and 13 -year-olds. The results were then tested to see if there was a statistical difference between the two samples.

## B. SWAMPY CREE DATA

## I. 6-Year-olds' results

a. General Information

Each child's exact age at examination was calculated by computer from the birthdate and date of examination. Each child was assigned a reference number and coded according to sex and the location of the reserve.

## b. Service Utilization

The survey form included a section that asked four questions with regard to utilization of dental service. This section was completed for the 13 -year-old group, but not for the 6 -year-olds because it was felt by Dr. Cohoe that a six-year-old child was unable to accurately answer the questions, and the child was often accompanied by a person other than the parent, who also was unable to accurately answer the questions. Several of the following sections, c through f , were also not completed for 6-year-olds.
c. Disorders of Mucosa, Teeth and Bone and other Conditions

## Optimal Fluoride Exposure:

For 6 -year-olds, $41 / 2$ years exposure to a fluoridated water supply ( 0.7 to 1.2 ppm ) was considered optimal.

In addition to the fluoride supplement program, a varying amount of natural fluoride is found in the water supply on each reserve (Cohoe, 1989).

| The Pas | 0.31 ppm |
| :--- | :--- |
| Pukatawagan | 0.12 ppm |
| Pelican Rapids | 0.16 ppm |
| Easterville | 0.30 ppm (Max.) |
| Grand Rapids | 0.80 ppm (on reserve) |
| Moose Lake | $0.15-0.20 \mathrm{ppm}$ |

The minimum level of fluoride that is considered to provide the optimum level of protection against dental caries is 0.7 ppm. (Dean et al., 1942). Only one reserve, Grand Rapids, is above this minimum level.

A chi-square analysis was done to compare the caries rate between reserves. These results are included in section $h$ (Exposure to Fluoride).

## d. Prosthetic Status

None of the 6-year-olds required, or were wearing, appliances. No data were recorded in this section.

## e. Community Periodontal Treatment Needs Index

This data was not recorded for 6 -year-olds.

## f. Dentofacial Anomalies and Occlusion

No significant dentofacial anomalies were found. The occlusion was not recorded for 6-year-olds.

## g. Conditions Needing Immediate Attention

Table 5 shows the number of 6 -year-old SCTC children requiring emergency treatment for relief of existing pain, or treatment of severe carious lesions likely to cause pain or infection. Overall, $44 \%$ of the survey population is in need of immediate treatment, primarily for severely decayed teeth. Easterville (73\%) and Pukatawagan (64\%) have the greatest proportion of children with severely affected teeth. Many of the children have more than one lesion requiring treatment, which is why the total for all the categories exceeds the actual number of children affected. The categories, therefore, are not mutually exclusive.

## h. Dental Caries Status and Treatment of Teeth

## h. 1 Treatment Needs

For SCTC 6-year-olds the codes for each category of decay were added together to get the " d " sum for deciduous teeth. For permanent teeth the codes for each category were added together to comprise the " D " sum. The total number of one-, two-, three-, and more than threesurface restorations required, and the number of extractions required, have been calculated for 6 -year-olds (Table 6a). It is apparent that the SCTC 6-year-old population has a large number of deciduous teeth requiring treatment and particularly those children with teeth requiring extensive restorations (crown, pulpotomy, etc.) or extractions.

The first category "BO" (decayed, no treatment) for deciduous teeth was included in the total. This category comprises $27.38 \%$ of the total amount of decay in deciduous teeth, but it is unknown what proportion belongs in each of the other categories, i.e., what proportion of "BO's"
are one surface, two surface, three surface cavities, etc. Consultation with Dr. Cohoe was done to estimate the proportions.

According to Dr. Cohoe "the deciduous teeth coded 'BO' were teeth which would soon be exfoliating and did not have extensive caries. It is impossible at this point in time to try to accurately estimate what percentage of these were one surface and what percentage were more than one surface". She thought "most would be one or two surface." (Cohoe,1989).

This point was also discussed with Dr. Cooney and he suggested that probably these were anteriors with one or more single-surface cavities, i.e., a "Mesial" and/or a "Distal" and/or a "Facial". It was therefore decided to divide the total number in half, designating $50 \%$ as a onesurface cavity, and $50 \%$ as involving two surfaces.

The estimated proportion of "decayed teeth, no treatment" (BO), was then added to each of the other two categories of decay for deciduous teeth (Table 6b).

For purposes of analysis the number of teeth requiring treatment were divided into two groups, those requiring one- or two-surface restorations, and those teeth that required more extensive repair or extraction. One-surface restorations are usually simple restorations involving either the occlusal surface or a facial or lingual surface. Two-surface restorations may in fact involve only a proximal surface, but in order to gain access to the proximal surface, the occlusal is restored as well. Both of these types of restorations were considered to involve minimal damage to the tooth. Restorations requiring more than two-surfaces, or extraction, involve considerably more damage to the tooth.

| TABLE 5. IMMEDIATE TREATMENT REQUIREMENTSSCTC 6-year-olds |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reserve | EV | GR | ML | PK | P R | TP | Total | \% |
|  | $\mathrm{N}=15$ | $\mathrm{N}=21$ | $\mathrm{N}=15$ | $\mathrm{N}=14$ | $N=11$ | $\mathrm{N}=32$ | $\mathrm{N}=108$ |  |
| Existing Pain | 8 | 2 | 3 | 6 | 4 | 8 | 31 | 31.0 |
| Future Pain? | 10 | 4 | 6 | 9 | 5 | 12 | 46 | 46.0 |
| Pulp Involved | 7 | 2 | 3 | 3 | 3 | 5 | 23 | 23.0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Children affected |  |  |  |  |  |  |  |  |
| Total | 11 | 4 | 6 | 9 | 5 | 12 | 47 | 43.52 |
| Percent | 73.3 | 19.0 | 40.0 | 64.3 | 45.5 | 37.5 |  |  |

RESERVES:
EV EASTERVILLE
GR GRANDRAPIDS
ML MOOSE LAKE
PK PUKATAWAGAN
PR PELICAN RAPIDS
TP THE PAS

|  | TABLE 6a. | TREATMENT NEEDS - SCTC |
| :--- | ---: | ---: | ---: | :--- |
|  | DECAYED TEETH - | 6-year-olds (N = 108) |


| TABLE 6b. TREATMENT NEEDS - SCTC DECAYED TEETH - 6-year-olds ( $\mathrm{N}=108$ ) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Treatment <br> Required | Total Teeth Perm. | Affected <br> Decid. | Mean | Codes |
| One-surface restoration | 38 | 129 | 1.55 | (Codes B0,B1, D1, E1, 11) |
| Two-surface restoration | 20 | 192 | 1.96 | (Codes B0,B2, D2,E2, 12) |
| Three-surface restoration | 2 | 12 | 0.13 | (Codes B3, D3, E3, 13) |
| >than three-surfaces or crown | wn 1 | 103 | 0.96 | (Codes B4,B4/9, D4,E4, |
|  |  |  |  |  |
| Extraction Required | 1 | 45 | 0.43 | (Codes B5,B5/9,D5, E5,15) |
| TOTAL | 62 | 481 | 5.03 |  |

## h. 2 Decayed, Missing and Filled Teeth

The total number of decayed, missing and filled deciduous (deft) and permanent teeth (DMFT) has been calculated for the 6 -year-old group. The sum of the decayed teeth was derived by adding together a total of more than 15 different codes (Table 7a \& 7b).

The average numbers are high for the SCTC 6-year-old population for all three categories, decayed, missing and filled. An index was done to show the proportional contribution of the decayed teeth to the overall deft. The d/def index shows that the decayed component is a large proportion (.58) of the total in the SCTC population, while the number of missing (due to caries) and filled teeth comprise a smaller proportion of the total deft.

The deciduous teeth recorded as missing in six-year-olds were primarily Deciduous Maxillary Incisors and Deciduous Molars. These teeth were, therefore, lost due to caries or "other" causes, and not likely due to normal exfoliation or premature eruption of the permanent successors (Trodden, 1982).

An index was also done to show the proportional contribution of the decayed permanent teeth to the overall DMFT. The D/DMF index shows that the decayed component is a very large proportion (.85) of the total in the SCTC 6-year-old population, while the number of missing (due to caries) and filled teeth comprise a very small proportion of the total DMFT. The mean DMFT for 6 -year-old children is based on an average of six permanent teeth per child (s.d. 2.03), although some children in the population have as few as three permanent teeth, and a few children have as many as 12. The deft and DMFT were combined to give a total rate of disease due to caries of 8.32 out of a maximum of 24 teeth.

|  | TABLE 7a. | Decayed, Missing \& Filled Deciduous Teeth |  |
| :--- | :---: | :---: | :--- |
|  | SCTC | 6-year-olds $(\mathrm{N}=108)$ |  |
|  | Total | Mean | Codes |
|  | 481 | 4.45 | (Codes BO-B5,D1-D5,E1-E5) |
| Number of decayed teeth | 163 | 1.51 | (Codes MO,M9) |
| Number of missing teeth | 180 | 1.67 | (Code CO) |
| Number of filled teeth | 824 | 7.63 |  |
|  |  |  |  |
| d/def INDEX | $481 / 824$ | .58 |  |


| TABLE 7b. | Decayed, Missing \& Filled Permanent Teeth <br> SCTC 6-year-olds $(\mathrm{N}=108)$ |  |  |
| :---: | :---: | :---: | :--- |
|  | Total | Mean | Codes |
| Number of decayed teeth | 62 | 0.57 | (Codes 11,12,13, |
| Number of missing teeth | 0 | 0.00 | (Code 50) |
| Number of filled teeth | 11 | 0.10 | (Code 20) |
| DMFT | 73 | 0.68 |  |
| D/DMF Index | $62 / 73$ | .85 |  |

## h. 3 Unerupted, Impacted or Congenitally Missing Teeth

No data was recorded in this section. As all children were not seen prior to their sixth birthday, it was impossible to determine whether any deciduous teeth were congenitally missing. All the teeth missing were presumed to be so as a result of dental caries.

## h. 4 Dental Caries Status by Reserve

The total sample of 6-year-olds was also divided by reserve, and the deft and DMFT was calculated separately for each reserve (Tables 8 a and 8 b ). The mean "d", " e ", "f" and " D ", "M", "F" components were also calculated separately for each reserve. The " S " value is the mean number of sound teeth per child for each reserve. The two tables were then combined to give a total picture of the caries experience (deft plus DMFT) for each reserve (Table 8c).

Dr. Cohoe was consulted with regard to the high decay rates in Easterville. She wasn't exactly sure why it was "so much worse than in the other communities". She felt that "It is probably a combination of factors: diet, parental attitudes and nursing bottle caries." (Cohoe,1989).
"Access to candy stores is about equal on the various reserves. However they do sell candy right in the school in Easterville. In all six communities we often see children eating candy. Attitudes toward dental care may be better among the children in Pelican Rapids than on the other reserves. The school nutritionist there is very involved in improving dental health and she runs the fluoride rinse program and makes sure that all the grades participate in the school brushing program. This active school preventive program may be why the 13 year olds compare more favourably to the other reserves than the six year olds in that community," (Cohoe, 1989).

| TABLE 8a. MEAN deft BY RESERVE SCTC 6-year-olds ( $\mathrm{N}=108$ ) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reserve | N | S | d | e | $f$ | deft | St.Dev. |
| Easterville | 15 | 5.13 | 7.13 | 2.80 | 1.67 | 11.60 | 3.16 |
| Grand Rapids | 21 | 12.48 | 2.71 | 0.62 | 1.62 | 4.95 | 4.13 |
| Moose Lake | 15 | 10.27 | 3.80 | 2.67 | 1.80 | 8.27 | 3.92 |
| Pukatawagan | 14 | 8.50 | 5.93 | 1.36 | 1.86 | 9.14 | 3.21 |
| Pelican Rapids | 11 | 9.18 | 5.00 | 1.27 | 2.36 | 8.64 | 3.01 |
| The Pas | 32 | 12.00 | 3.84 | 1.09 | 1.34 | 6.28 | 3.70 |
| All Reserves | 108 | 10.16 | 4.46 | 1.51 | 1.68 | 7.65 | 4.15 |


| TABLE 8b. MEAN DMFT BY RESERVE SCTC 6-year-olds ( $\mathrm{N}=108$ ) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | N | S | D | M | F | DMFT | St.Dev. |
| Easterville | 15 | 5.40 | 0.87 | 0.00 | 0.07 | 0.93 | 1.22 |
| Grand Rapids | 21 | 4.43 | 0.48 | 0.00 | 0.14 | 0.62 | 1.24 |
| Moose Lake | 15 | 3.80 | 0.93 | 0.00 | 0.07 | 1.00 | 1.07 |
| Pukatawagan | 14 | 4.22 | 1.00 | 0.00 | 0.14 | 1.14 | 1.10 |
| Pelican Rapids | 11 | 5.55 | 0.36 | 0.00 | 0.00 | 0.36 | 0.81 |
| The Pas | 32 | 3.78 | 0.19 | 0.00 | 0.13 | 0.31 | 0.86 |
| All Reserves | 108 | 4.37 | 0.57 | 0.00 | 0.10 | 0.67 | 1.08 |


|  | TABLE 8c. | MEAN COMBINED deft/DMFT |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | SCTC | 6-year-olds | $(\mathrm{N}=108)$ |  |  |  |
|  | N | $\mathbf{S}$ | d/D | e/M | f/F | deft/ | St.Dev. |
|  |  |  |  |  |  | DMFT |  |
| Easterville | 15 | 10.53 | 8.00 | 2.80 | 1.74 | 12.53 | 3.72 |
| Grand Rapids | 21 | 16.91 | 3.19 | 0.62 | 1.76 | 5.57 | 5.05 |
| Moose Lake | 15 | 14.07 | 4.73 | 2.67 | 1.87 | 9.27 | 4.27 |
| Pukatawagan | 14 | 12.72 | 6.93 | 1.36 | 2.00 | 10.29 | 3.75 |
| Pelican Rapids | 11 | 14.73 | 5.36 | 1.27 | 2.36 | 9.00 | 3.29 |
| The Pas | 32 | 15.78 | 4.03 | 1.09 | 1.47 | 6.59 | 3.88 |
| All Reserves | 108 | 14.53 | 5.03 | 1.51 | 1.78 | 8.32 | 4.64 |

## h.5. Exposure to Fluoride

The Chi-Square analysis was done by reserve depending on their exposure to fluoride. Grand Rapids is the only community with an optimum level of natural fluoride in the water supply. Pelican Rapids and The Pas reserves both have a high proportion of the children in the fluoride rinse program. These three reserves were compared to the three other reserves that have a minimal exposure to fluoride, i.e. Grand Rapids was compared to Easterville, Moose Lake and Pukatawagan (Others); Pelican Rapids and The Pas reserves were also compared to Easterville, Moose Lake and Pukatawagan; and Grand Rapids was compared to Pelican Rapids /The Pas.

For 6-year-olds the deft and DMFT were combined as were the number of sound deciduous and permanent teeth. There were highly significant differences between the reserves exposed to fluoride and those that were not. The differences between Grand Rapids ( 0.8 ppm ) and Pelican Rapids ( 0.16 ppm )/The Pas ( 0.31 ppm ) were also highly significant.

These results clearly show that both natural water fluoridation and the fluoride rinse/brushing program are effective in significantly reducing the rate of dental decay.

|  | TABLE 8d. SCTC 6-year-olds <br> Chi Square <br> Grand Rapids Other Reserves Pelican Rapids and <br> (EV, ML, PK) <br> The Pas |  |  |
| :---: | :---: | :---: | :---: |
| def/DMF | 117 | 471 | 310 |
| Sound | 356 | 548 | 667 |

The resulting Chi-Square values are as follows:

| Grand Rapids/Others | $=$ | 62.46 | $\mathrm{p}<.0001$ | d.f. $=1$ |
| :--- | :--- | ---: | :--- | :--- |
| P.R. \& T.P./ Others | $=$ | 44.22 | $\mathrm{p}<.0001$ | d.f. $=1$ |
| Grand Rapids/P.R. \& T.P. | $=7.50$ | $\mathrm{p}<.0062$ | d.f. $=1$ |  |

## 2. 13-Year-olds' results

## a. General Information

Each child's exact age at examination was calculated by computer from the birthdate and date of examination. Each child was assigned a reference number and coded according to gender and the location of the reserve.

## b. Service Utilization

The survey form included a section which asked four questions with regard to utilization of dental service. This section was completed for the 13-year-old group, but not for the 6 -year-olds. Tables 9a and 9b list the four questions which were asked, along with the possible answers which were coded and then recorded, and the total number for each response.

These data are not very helpful, as close to $50 \%$ of the responses are "Don't Know", for three of the four questions. Dr. Cohoe felt that the value of this information was questionable as it was very difficult to get any type of response from the children. The questions were asked by her assistant, who speaks Cree, so there should not have been a language problem (Cohoe, 1989).

The second question, regarding where dental services were sought, is interesting, however, in that less than half $(48 / 108)$ of the children went to the dental clinic on the reserve, while almost a third (35/108) went to a dental clinic in a nearby community. The reasons for this are unclear, but perhaps an investigation of the clinic schedule would be worthwhile, to see how much time is spent on each reserve relative to the size of the population, and the frequency of the visits.

| TABLE 9a. SERVICE UTILIZATION SCTC 13-year-olds ( $\mathrm{N}=108$ ) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| How often do you visit the dentist now? |  | Where do you go to see the dentist? |  |  |
| Code | Total |  |  | Total |
| 11 or more times per year | 52 | 1 | on reserve | 48 |
| 21 time per 2 years | 3 | 2 | nearby community | 35 |
| 31 time per 3 years | 0 | 3 | Winnipeg | 7 |
| 41 time per 4 years or more | 2 | 4 | other | 1 |
| 5 don't know | 51 |  | don't know | 17 |
|  | 108 |  |  | 108 |

## TABLE 9b. SERVICE UTILIZATION

SCTC 13-year-olds ( $\mathrm{N}=108$ )

| Why do you see the dentist? |  | Why do you not see the dentist more often? |  |  |
| :--- | :---: | :--- | :--- | :--- |
| Code | Total | Code | Total |  |
| 1 | toothache | 12 | 1 | afraid |
| 2 | examination | 16 | 2 | service not available |
| 3 | cleaning | 20 | 3 | nothing wrong |
| 4 | filling | 10 | 4 | don't like |
| 5 | root canal | 0 | 5 | other |
| 6 | other | 4 | 6 | don't know |
| 7 | don't know | 46 |  |  |
| Total | 108 |  |  | 28 |

## c. Disorders of Mucosa, Teeth and Bone and other Conditions

Oral Mucosa: - see also section e (Periodontal Treatment Needs).
The gingival tissues were assessed as being either healthy, or showing signs of gingivitis. Only three of the 108 thirteen-year-olds were found to have completely healthy soft tissues, seven showed signs of mild gingivitis, and the remaining 98 had obvious gingivitis requiring preventive treatment.

## Defects of Teeth:

Many different conditions were recorded in this section: primarily the occurrence of hypoplasia, abrasion, and retained deciduous teeth or impacted permanent teeth. Hypoplasia and abrasion are not looked at in this report as the number of cases reported was not considered above normal or significant. The number of retained and impacted teeth is considered in section $h$ (Dental Caries Status and Treatment).

## Disorders Involving Bone:

There were no significant findings.

## Fluorosis:

Only two positive cases of fluorosis were recorded from The Pas Reserve, out of the 108 thirteen-year-olds. Both individuals had resided on The Pas Reserve for 11 to 13 years and were scored as: "1" (questionable).
"The enamel discloses slight aberrations from the translucency of normal enamel, ranging from a few white flecks to occasional white spots. This classification is utilized in those instances where a classification of 'normal' is not justified" (WHO, 1979:17).

## Optimal Fluoride Exposure:

For 13-year-olds, exposure to fluoride from the age of 3 to 13 years inclusive (less a maximum of 1 year) was considered optimal.

All entries recorded in this column were negative, indicating that none of the children had received optimal exposure to fluoride. According to the written comments under "Location" there were five of the 13 -year-old children, however, who had received three or more years fluoride exposure because they had lived in Winnipeg or Brandon; two from Grand Rapids, and three from Pukatawagan. Two of the three children from Pukatawagan had six years exposure to fluoridated water.

In response to the question "Does your child participate in a weekly fluoride rinse/tablet program at school?" there were $25(24 \%)$ positive responses out of 104 responses. Four survey forms were left blank for this question, and three were left blank for the following two questions.

In reply to the question "How many years has he/she participated?" there were 25 responses made by the same individuals as above (Table 10).

The number of years the children had participated in the fluoride rinse program ranged from one to five years, with a mean value of 3.81 years (s.d. of 1.42 years). There were considerable differences between reserves in the proportion of children participating in the program. It is apparent from Table 10 that the children on two reserves, Pelican Rapids and The Pas, receive most of the supplementary fluoride treatment. It was discovered that in Pelican Rapids the children brushed their teeth twice a day in class under the teachers supervision, but this was not done in Easterville. (Redhead, 1989).

In addition to the fluoride supplement program, a varying amount of natural fluoride is found in the water supply on each reserve (see section 1 for 6 -year-olds). The minimum level of fluoride which is considered to provide the optimum level of protection against dental caries is 0.7 ppm. Only one reserve, Grand Rapids is above this minimum level.

| TABLE 10. | PARTICIPATION IN FLUORIDE RINSE PROGRAM |  |  |  |
| :--- | :---: | :---: | :--- | :--- |
|  | SCTC | 13-year-olds | (N = 105) |  |
| RESERVE | NUMBER | PERCENT | MEAN | RANGE |
| Easterville | $0 / 14$ | 0.00 | 0 years |  |
| Grand Rapids | $1 / 14$ | 7.14 | 4 years |  |
| Moose Lake | $2 / 22$ | 9.09 | 3 years | $1-5$ years |
| Pukatawagan | $2 / 21$ | 9.52 | 2 years | $1-3$ years |
| Pelican Rapids | $8 / 11$ | 72.73 | 4.75 years | $3-5$ years |
| The Pas | $12 / 23$ | 52.17 | 3.62 years | $1-5$ years |
| Total | 105 |  |  |  |

A chi-square analysis was done to compare the caries rate between reserves for 13-yearolds. These results are included in section h .5 (Exposure to Fluoride).

## d. Prosthetic Status

Because of the young age of the survey population, none of the participants was wearing full dentures. One 13-year-old child was wearing a partial upper denture to replace a missing central incisor. One child required a partial upper denture, to replace a missing premolar.

Two 13-year-olds required a partial lower denture to replace, in one case two missing premolars, and in the other case a total of four missing mandibular teeth. Even four children of this age wearing partial dentures in a population of 700-800 children should be considered an exceptionally high percentage.

The cause of the missing teeth in these four children is unknown. The teeth in question could be missing for any number of reasons; congenitally missing (mandibular premolars), caries (premolars), or due to trauma (central incisor).

## e. Community Periodontal Index of Treatment Needs (CPITN)

The extent of periodontal disease was assessed by using four codes to evaluate each of the six sextants of the oral cavity:
$0=$ healthy
1 = bleeding
2 = calculus
3 = a pocket of 4 or 5 mm ., black band of calculus partially visible
4 = a pocket $\geq 6 \mathrm{~mm}$., black band of calculus not visible

Table 11a shows the highest (most severe) code recorded for each 13-year-old by reserve. Almost half of the children (46\%) did not have obvious calculus present, but their gingivae bled upon instrumentation. Over half of the children had calculus and pocket formation,
although none had a pocket greater than 5 mm . At this age many of the children still were undergoing tooth eruption, which could account for the 4 and 5 mm . pocket depths. Calculus removal and oral hygiene instruction is required for almost all of the 13 -year-olds in this survey. The children on The Pas and Moose Lake reserves appear to have better oral hygiene, while Pukatawagan and Easterville require the most preventive treatment.

This data was also looked at by dividing each child's dentition into six sextants (Maxillary and Mandibular right posterior, anterior, and left posterior). Table 11b shows the total number of sextants recorded for each periodontal code. By looking at the data by sextant and by child, it can be seen that most of the children were scored a "1" for at least four of the six sextants $(71 \%$ of sextants). The score of "2" was recorded for 26 children in 90 sextants. Therefore, calculus, if present, was found in several areas of the mouth, including the lower anterior and the maxillary molar areas. The highest score recorded of " 3 " represents a localized problem for certain children ( 31 children scored a " 3 " for 51 sextants).

| TABLE 11a. SEVERITY OF PERIODONTAL DISEASE (by child) SCTC 13-year-olds ( $\mathrm{N}=108$ ) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { E V } \\ \mathrm{N}=14 \end{gathered}$ | GR $N=14$ | ML $\mathrm{N}=24$ | PK <br> $\mathrm{N}=22$ | $\begin{gathered} \text { PR } \\ \mathrm{N}=11 \end{gathered}$ | $\begin{array}{r} \text { TP } \\ \mathrm{N}=23 \end{array}$ | Total $N=108$ | \% |
| Perio Code Max/Child |  |  |  |  |  |  |  |  |
| 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0.93 |
| 1 | 3 | 6 | 13 | 7 | 4 | 17 | 50 | 46.30 |
| 2 | 5 | 3 | 7 | 6 | 3 | 2 | 26 | 24.07 |
| 3 | 6 | 5 | 3 | 9 | 4 | 4 | 31 | 28.70 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Total | 14 | 14 | 24 | 22 | 11 | 23 | 108 | 100.00 |

TABLE 11b. SEVERITY OF PERIODONTAL DISEASE (by sextant)
SCTC 13-year-olds ( $\mathrm{N}=108$ )

| EV | GR | ML | PK | PR | TP | Total | \% | Mean/Child |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{N}=14$ | $\mathrm{~N}=14$ | $\mathrm{~N}=24$ | $\mathrm{~N}=22$ | $\mathrm{~N}=11$ | $\mathrm{~N}=23$ | $\mathrm{~N}=108$ |  |  |

Perio Codes
/Sextant

| 0 | 0 | 5 | 14 | 9 | 4 | 14 | 46 | 7.10 | 0.43 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 1 | 62 | 65 | 108 | 79 | 44 | 103 | 461 | 71.14 | 4.27 |
| 2 | 12 | 5 | 17 | 33 | 10 | 13 | 90 | 13.89 | 0.83 |
| 3 | 10 | 9 | 5 | 11 | 8 | 8 | 51 | 7.87 | 0.47 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 0.00 |
| Sum |  |  |  |  |  |  | 648 | 100.00 |  |

## f. Dentofacial Anomalies and Occlusion

No significant dentofacial anomalies were found. Consequently, nothing was recorded under this section.

Table 12 shows the classification of occlusion for 13 -year-olds by reserve. A reasonably high overall proportion (67\%), have some crowding of the dentition, and only $60 \%$ of the children have a normal Class I molar relationship. Angle's Class I molar relationship is defined as the ideal molar relationship where the mandibular first permanent molar is one cusp width mesial to the maxillary first permanent molar.

The relatively high proportion of children (23\%) with a Class II relationship (the maxillary first permanent molar is one cusp width or more mesial to the mandibular first permanent molar) may be the result of premature loss of the maxillary deciduous molars resulting in a loss of maxillary arch length. Many of these children also have an increased (greater than normal) overjet and overbite.

The number of children (16\%) with a Class III molar relationship ( the mandibular first permanent molar is more than one cusp width mesial to the maxillary first permanent molar) may be the result of premature loss of mandibular deciduous molars. These children would also have a decreased (less than normal) overjet and an increased overbite.

With regard to the high prevalence of Class II and Class III malocclusions, Dr. Cohoe (1989), Dr. Arnold (1989), and myself feel strongly that a large percentage of these are due to space loss as a result of premature extraction of the deciduous molars rather than due to skeletal abnormalities. There is no way of verifying this as studies on occlusion in Manitoba have included a cross section of all Manitoba children, and not specifically Manitoba Native children. McPhail et al. (1972) and Shaw et al. (1987) in studies of Native children in Saskatchewan and Quebec, respectively, found the proportion of children with Class I molar occlusion to be over $75 \%$, and the proportions of Class II and Class III to be approximately equal, and between 10-13\%. There is, therefore, a much higher proportion of SCTC children with Class II occlusion than would be expected among Native children.

| TABLE 12. CLASSIFICATION OF OCCLUSION SCTC 13-year-olds ( $\mathrm{N}=108$ ) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { E V } \\ \mathrm{N}=14 \\ \hline \end{gathered}$ | $\begin{gathered} \text { GR } \\ \mathrm{N}=14 \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{ML} \\ \mathrm{~N}=24 \\ \hline \end{gathered}$ | $\begin{gathered} \text { P K } \\ \mathrm{N}=22 \\ \hline \end{gathered}$ | $\begin{gathered} \text { PR } \\ \mathrm{N}=11 \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{TP} \\ \mathrm{~N}=23 \\ \hline \end{gathered}$ | Total $N=108$ | \% |
| Molar Relation |  |  |  |  |  |  |  |  |
| Class I | 8 | 11 | 12 | 12 | 6 | 16 | 65 | 60.19 |
| Class II | 2 | 2 | 8 | 8 | 2 | 3 | 25 | 23.15 |
| ClassIII | 4 | 1 | 4 | 2 | 3 | 4 | 18 | 16.66 |
| Overjet |  |  |  |  |  |  |  |  |
| Normal | 3 | 8 | 10 | 7 | 7 | 12 | 47 | 43.52 |
| Increased | 6 | 4 | 10 | 11 | 3 | 8 | 42 | 38.89 |
| Decreased | 5 | 2 | 4 | 4 | 1 | 3 | 19 | 17.59 |
| Overbite |  |  |  |  |  |  |  |  |
| Normal | 5 | 7 | 10 | 11 | 5 | 14 | 52 | 48.15 |
| Increased | 3 | 5 | 8 | 5 | 3 | 6 | 30 | 27.78 |
| Decreased | 6 | 2 | 6 | 6 | 3 | 3 | 26 | 24.07 |
| Crowding |  |  |  |  |  |  |  |  |
| Yes | 7 | 10 | 19 | 13 | 7 | 17 | 73 | 67.59 |
| No | 7 | 4 | 5 | 9 | 4 | 6 | 35 | 32.41 |

## g. Conditions Needing Immediate Attention

Table 13 shows the number of 13 -year-old SCTC children requiring emergency treatment for relief of existing pain, or treatment of severe carious lesions likely to cause pain or infection. Overall, $15 \%$ of the survey population is in need of immediate treatment, primarily for severely decayed teeth. Pukatawagan (31\%) and Easterville (14\%) have the greatest proportion of children with severely affected teeth. Many of the children have more than one lesion requiring immediate treatment, which is why the total for all the categories exceeds the actual number of children affected, as each category is not mutually exclusive.

## h. Dental Caries Status and Treatment of Teeth

## h. 1 Treatment Needs

The total number of one-, two-, three-, and more than three-surface restorations required, and the number of extractions required, has been calculated separately for each age group (Table 14). The average number of teeth requiring treatment for SCTC children is 2.07 .

As was done for 6 -year-olds, the number of teeth requiring treatment were divided into two groups, those requiring one- or two-surface restorations, and those teeth that required more extensive repair (more than a two-surface restoration) or extraction. One- and two-surface restorations are usually involve minimal damage to the tooth. Restorations requiring more than two-surfaces, or extraction, involve considerably more damage to the tooth.

| TABLE 13. IMMEDIATE TREATMENT REQUIREMENTS SCTC 13-year-olds ( $\mathrm{N}=108$ ) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | EV | GR | ML | PK | PR | TP |  | al \% |
|  | $\mathrm{N}=14$ | $\mathrm{N}=14$ | $\mathrm{N}=24$ | $\mathrm{N}=22$ | $\mathrm{N}=11$ | $\mathrm{N}=23$ |  |  |
| Existing Pain | 1 | 0 | 1 | 4 | 0 | 0 | 6 | 5.56 |
| Future Pain? | 2 | 1 | 3 | 6 | 1 | 3 | 16 | 14.82 |
| Pulp Involved | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0.93 |
| Other | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0.93 |
| Total children |  |  |  |  |  |  |  |  |
|  | 2 | 1 | 3 | 7 | 1 | 3 | 17 | 15.74 |
| Percent | 14.3 | 7.1 | 12.5 | 31.8 | 9.1 | 13.0 |  |  |


|  | TABLE 14. | DECAYED TEETH |
| :--- | :---: | :---: | :---: | :--- |
|  | SCTC | 13-year-olds ( $\mathrm{N}=108$ ) |

## h. 2 Decayed, Missing and Filled Teeth

The total number of decayed, missing and filled teeth has been calculated for the 13-yearold group. The sum of the decayed teeth was derived by adding together a total of more than 15 different codes (Table 15).

The proportion of decayed teeth comprising the total DMFT was also calculated. The D/DMF index (.33) shows that the number of decayed (unrestored) teeth contributes less to the total DMFT than it does in the sample of 6 -year-old children (.58), indicating that the 13 -year-old group has had more of their treatment needs met than the 6-year-old group.

## h. 3 Unerupted, Impacted or Congenitally Missing Teeth

Table 16 shows the total number of unerupted, impacted or congenitally missing teeth in the 13 -year-old group. At this age, the number of "missing" second molars is very small, possibly indicating an early eruption pattern in this population (Trodden, 1982).

However, the children who are "missing" canines, first, or second premolars, (most likely impacted as a result of premature loss of deciduous teeth) will probably show crowding and occlusion problems.

Without x -rays there was no accurate means of telling whether a tooth was unerupted, impacted, or congenitally missing. It was decided that the best answer was to assume they were all unerupted or impacted. The presumption is that these teeth were unable to erupt due to a lack of space (Cohoe, 1989).


This assumption would not include the second molars which are likely just late (unerupted), or the two missing incisors. The "missing" maxillary and mandibular incisors may be impacted, congenitally missing, or may have been lost due to trauma. Any of these reasons may be correct, although impaction is the least probable. No history was available to answer this question accurately.

## h. 4 Dental Caries Status by Reserve

The dental caries data were divided by reserve in addition to age in order to see if there were significant differences between reserves. The " S " value is the mean number of sound teeth per child (Table 17).

## h. 5 Exposure to Fluoride

A Chi-Square analysis was done by reserve depending on their exposure to fluoride. Grand Rapids is the only community with an optimum level of natural fluoride in the water supply. Pelican Rapids and The Pas reserves both have a high proportion of the children in the fluoride rinse program (see Table 10). The children on these three reserves were compared to the three other reserves (Easterville, Moose Lake and Pukatawagan) who have a minimal exposure to fluoride.

For 13-year-olds the total DMFT was calculated as well as the number of sound teeth. The results show that both natural fluoride and the fluoride rinse/brushing program are effective in significantly reducing the rate of dental decay on these three reserves.

| TABLE 16. | UNERUPTED, IMPACTED, or CONG. MISSING TEETH |  |  |  |  |
| :--- | :--- | :--- | :--- | :---: | :---: |
|  | SCTC | 13-year-olds $(N=108)$ |  |  |  |
| Incisors | 2 | First Premolars | 10 |  |  |
| Maxillary Canines | 8 | Second Premolars | 36 |  |  |
| Mandibular Canines | 3 | Second molars | 24 |  |  |
| TOTAL $=83 / 108$ | Mean (per child $)=.77$ |  |  |  |  |


|  | TABLE 17. MEAN DMFT BY RESERVE |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SCTC | 13-year-olds | ( $\mathrm{N}=108$ ) |  |  |  |  |  |
|  | N | S | D | M | F | DMFT | St.Dev. |
|  | 14 | 18.79 | 2.86 | 0.50 | 5.79 | 9.14 | 2.74 |
| Easterville | 14 | 22.07 | 0.71 | 0.00 | 4.07 | 4.79 | 4.79 |
| Grand Rapids | 24 | 20.79 | 2.42 | 0.33 | 3.67 | 6.42 | 2.67 |
| Moose Lake | 22 | 21.00 | 3.36 | 0.36 | 2.77 | 6.50 | 3.56 |
| Pukatawagan | 11 | 21.00 | 2.18 | 0.36 | 2.91 | 5.46 | 3.08 |
| Pelican Rapids | 23 | 21.44 | 0.78 | 0.04 | 4.35 | 5.17 | 2.57 |
| The Pas | 108 | 20.89 | 2.07 | 0.26 | 3.88 | 6.21 | 3.11 |


| TABLE 18. SCTC 13-year-olds Chi Square |  |  |  |
| :---: | :---: | :---: | :---: |
| Teeth | Grand Rapids | Other Reserves (EV, ML, PK) | Pelican Rapids and The Pas |
| DMF | 67 | 424 | 179 |
| Sound | 309 | 1224 | 724 |

The resulting Chi-Square values are as follows:

| Grand Rapids / Others | $=10.42$ | $\mathrm{p}<.0012$ | d.f. $=1$ |
| :--- | :--- | :--- | :--- | :--- |
| Pelican Rapids \& The Pas / Others | $=11.27$ | $\mathrm{p}<.0008$ | d.f. $=1$ |
| Grand Rapids / Pelican Rapids \& | $=0.69$ | $\mathrm{p}<.4075$ | d.f. $=1$ |

For 13-year-olds there were highly significant differences between the children on reserves exposed to fluoride and those who were not. The differences between Grand Rapids and Pelican Rapids/The Pas were not significant for 13-year-olds.

## C. MANITOBA CHILDREN'S DENTAL PROGRAM DATA

The data for MCDP was analyzed in the same manner as the data for the SCTC group. Because this data was collected from existing charts, there were two areas of the analysis that could not be done for this group (i.e., Service Utilization and Community Periodontal Index of Treatment Needs).
I. 6-Year-olds' results

## a. General Information

Each child's exact age at examination was calculated by computer from the birthdate and date of examination. Each child was assigned a reference number and coded according to gender and the location of the reserve.

## b. Service Utilization

This section.was not available for the MCDP data. This program operates very differently, however, than the SCTC program. The clinics are set up in schools and the children are recalled from the classroom on an annual basis. Compliance is therefore very high unless the child is continually absent from school. Consent forms are signed by parents for their children to be seen by the Dental Therapists in the program.

## c. Disorders of Mucosa, Teeth and Bone and other Conditions

Oral Mucosa: - see also section e Periodontal Treatment Needs
The gingival tissues were assessed as being either healthy, or as showing signs of gingivitis.

Only 27 of the six-year-olds were found to have completely healthy soft tissues, eight showed signs of mild gingivitis, and the remaining 110 had obvious gingivitis requiring preventive treatment. The oral hygiene status was recorded in a few cases. Six children were noted as having good oral hygiene, eight children were fair, and nine children had poor oral hygiene.

## Defects of Teeth:

Very few conditions were recorded in this section: primarily the occurrence of hypoplasia, abrasion, and retained deciduous teeth or impacted permanent teeth. Hypoplasia and abrasion are not looked at in this report as the number of cases reported were not considered above normal or significant. The number of retained and impacted teeth was not considered for 6 -yearolds.

## Disorders Involving Bone:

There were no significant findings.

## Fluorosis:

No cases of fluorosis were recorded for 6-year-olds involving either the deciduous or permanent dentition.

## Optimal Fluoride Exposure:

For 6-year-olds, $41 / 2$ years exposure was considered optimal. There were no children who had been exposed to water fluoridation for $41 / 2$ years. Table 19 shows the number and percentage of children in each community who participated in the school fluoride rinse program.

There were considerable differences between schools in the proportion of children participating in the program. It is apparent from Table 19 that the children in

| TABLE 19. PARTICIPATION IN FLUORIDE RINSE PROGRAM - MCDP 6-year-olds ( $\mathrm{N}=137$ ) |  |  |
| :---: | :---: | :---: |
| SCHOOL | NUMBER | PERCENT |
| Barrows Junction | 6/6 | 100.00 |
| Berens River | 2/43 | 4.65 |
| Cormorant | 12/13 | 92.31 |
| Julie Lindal | 1/3 | 33.33 |
| Matheson | 0/8 | 00.00 |
| Pikwitonei | 0/6 | 00.00 |
| Pine Dock | $0 / 7$ | 00.00 |
| San Antonio | $0 / 6$ | 00.00 |
| Thicket Portage | 7/8 | 87.50 |
| Wabowden | 19/19 | 100.00 |
| Wanipigow | 11/18 | 61.11 |

four schools; Barrows Junction and Wabowden (100\%), Cormorant (92.31\%), and Thicket Portage ( $87.5 \%$ ) receive most of the supplementary fluoride treatment. There is no natural fluoride in the water supply in any of these communities.

## d. Prosthetic Status

No data were available from the charts to indicate whether any of the 6 -year-olds were wearing any appliances, except what was visible on radiographs (space maintainers).

## e. Community Periodontal Index of Treatment Needs (CPITN)

No data were available from the charts to make an assessment of the periodontal status of either the 6 -year-olds or the 13 -year-olds. other than that already noted in section c .

## f. Dentofacial Anomalies and Occlusion

No significant dentofacial anomalies were found. Table 20 shows the classification of occlusion for 6-year-olds by school. A reasonably high overall proportion (85.4\%), have a normal Class I molar relationship. Crowding of the dentition was recorded in only a small number of cases and it is unknown if this is a true reflection of the actual number of children with crowding. At the age of six years only the permanent mandibular incisors and first molars would be erupted. It is too early to tell whether the permanent dentition will be crowded. Similarly the overbite and overjet were only recorded for a few individuals and at this age they are not an accurate reflection of the final occlusion.

The proportion of children (11.68\%) with a Class II relationship may be the result of premature loss of the maxillary deciduous molars resulting in a loss of maxillary arch length, although $\mathbf{1 1 . 6 8 \%}$ falls within the range quoted by McPhail et al., (1972) and Shaw et al. (1987) of 10-13\%. These children may also have an increased (greater than normal) overjet and overbite. Although complete data are not available for Overjet and Overbite, it appears that a high percentage fall outside the range of normal (McPhail et al., 1972; Shaw et al., 1987).

| TABLE 20. CLASSIFICATION OF OCCLUSION MCDP - 6-year-olds ( $\mathrm{N}=137$ ) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{r} \mathrm{BA} \\ \mathrm{~N}=6 \\ \hline \end{array}$ | $\begin{gathered} B R \\ N=43 \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{CO} \\ \mathrm{~N}=13 \end{gathered}$ | $\begin{gathered} \text { JL } \\ \mathrm{N}=3 \\ \hline \end{gathered}$ | $\begin{aligned} & \text { MA } \\ & \mathrm{N}=8 \\ & \hline \end{aligned}$ | $\begin{array}{r} \mathrm{PK} \\ \mathrm{~N}=6 \\ \hline \end{array}$ | $\begin{array}{r} \text { PD } \\ \mathrm{N}=7 \\ \hline \end{array}$ | $\begin{array}{r} \mathbf{S A} \\ \mathrm{N}=6 \\ \hline \end{array}$ | $\begin{gathered} \mathrm{TP} \\ \mathrm{~N}=8 \\ \hline \end{gathered}$ | $\begin{gathered} \text { WA } \\ \mathrm{N}=19 \\ \hline \end{gathered}$ | $\begin{array}{r} \text { WN } \\ \mathrm{N}=18 \\ \hline \end{array}$ | $\begin{gathered} \text { Total } \\ \mathrm{N}=137 \\ \hline \end{gathered}$ | \% |
| Molar Relation |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Class I | 6 | 40 | 13 | 2 | 7 | 5 | 5 | 6 | 3 | 16 | 14 | 117 | 85.40 |
| Class II | 0 | 3 | 0 | 0 | 1 | 1 | 2 | 0 | 4 | 3 | 2 | 16 | 11.68 |
| ClassIII | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 4 | 2.92 |
| Overjet |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Normal | 0 | 6 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 11 | 8.03 |
| Increased | 1 | 4 | 0 | 0 | 2 | 2 | 1 | 1 | 1 | 0 | 1 | 13 | 9.49 |
| Decreased | 0 | 8 | 0 | 2 | 0 | 1 | 1 | 4 | 0 | 2 | 0 | 18 | 13.14 |
| Unknown | 5 | 25 | 13 | 1 | 5 | 3 | 5 | 0 | 6 | 15 | 17 | 95 | 69.34 |
| Overbite |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Normal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 4 | 2.92 |
| Increased | 1 | 8 | 0 | 0 | 1 | 1 | 1 | 3 | 0 | 1 | 1 | 17 | 12.41 |
| Decreased | 0 | 10 | 0 | 2 | 1 | 2 | 1 | 3 | 1 | 0 | 0 | 20 | 14.60 |
| Unknown | 5 | 25 | 13 | 1 | 6 | 3 | 5 | 0 | 6 | 15 | 17 | 96 | 70.07 |
| Crowding |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 4 | 2.92 |
| No/Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 133 | 97.01 |

The small number of children with a Class III molar relationship (2.92\%), may also be the result of premature loss of maxillary deciduous molars. This proportion is very low compared to that quoted by McPhail et al. (1972) and Shaw et al. (1987).

## g. Conditions Needing Immediate Attention

Table 21 shows the number of 6 -year-old MCDP children requiring emergency treatment for relief of existing pain, or treatment of severe carious lesions likely to cause pain or infection. Overall, $55.47 \%$ of the survey population is in need of immediate treatment, primarily for severely decayed teeth. Thicket Portage ( $75 \%$ ) and Cormorant $(69 \%$ ) have the greatest proportion of children with severely affected teeth. Many of the children have more than one lesion requiring treatment, which is why the total for all the categories exceeds the actual number of children affected.

## h. Dental Caries Status and Treatment of Teeth

## h. 1 Treatment Needs

For MCDP the codes for each category of decay were added together to get the "d" sum for deciduous teeth. The first category "BO" (decayed, no treatment) was included in the total (Table 22a). This category comprises $11.95 \%$ of the total amount of decay, but it is unknown what proportion belongs in each of the other categories i.e. what proportion of "BO's" are one surface, two surface, three surface cavities, etc.

As was done for the SCTC data (Table 6b), an estimate was made by dividing the total number of "BO's" (79) as evenly as possible between the categories for one- and two-surface restorations required (Table 22b).

| one surface | $148+40=188$ |
| :--- | :--- |
| two surface | $218+39=257$ |


|  | TABLE 21. IMMEDIATE TREATMENT REQUIREMENTS MCDP - 6-years-olds ( $\mathrm{N}=137$ ) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | BA $\mathrm{N}=6$ | $B R$ $N=43$ | $\begin{gathered} \mathrm{CO} \\ \mathrm{~N}=13 \end{gathered}$ | $\begin{aligned} & \mathrm{JL} \\ & \mathrm{~N}=3 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { MA } \\ & \mathrm{N}=8 \end{aligned}$ | $\begin{aligned} & \text { PK } \\ & \mathrm{N}=6 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { PD } \\ & \mathrm{N}=7 \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{SA} \\ & \mathrm{~N}=6 \\ & \hline \end{aligned}$ | $\begin{gathered} \mathrm{TP} \\ \mathrm{~N}=8 \\ \hline \end{gathered}$ | $\begin{gathered} \text { WA } \\ \mathrm{N}=19 \\ \hline \end{gathered}$ | $\begin{aligned} & \text { WN } \\ & \mathrm{N}=18 \end{aligned}$ | Total $\mathrm{N}=137$ | \% |
| Existing Pain | 2 | 9 | 3 | 1 | 2 | 2 | 1 | 0 | 1 | 5 | 1 | 27 | 19.71 |
| Future Pain? | 1 | 16 | 6 | 2 | 2 | 2 | 0 | 1 | 5 | 11 | 3 | 49 | 35.77 |
| Pulp Involved | 2 | 20 | 8 | 2 | 3 | 3 | 1 | 0 | 5 | 11 | 4 | 59 | 43.06 |
| Other | 2 | 9 | 3 | 0 | 3 | 2 | 3 | 0 | 1 | 5 | 3 | 31 | 22.63 |
| Total children affected | 2 | 24 | 9 | 2 | 5 | 4 | 4 | 1 | 6 | 12 | 7 | 76 | 55.47 |
| Percent | 33.33 | 55.81 | 69.23 | 66.67 | 62.5 | 66.67 | 57.14 | 16.66 | 75.0 | 63.16 | 38.89 |  |  |

For permanent Teeth the codes for each category were added together to comprise the " D " sum $=61$ and mean $=.5648$.

The total number of one-, two-, three-, and more than three-surface restorations required, and the number of extractions required, has been calculated for 6-year-olds (Table 22b). It is apparent that the MCDP population has a large number of deciduous teeth requiring treatment and particularly in those children with teeth requiring extensive restorations (crown, pulpotomy, etc.) or extractions.

For purposes of analysis the number of teeth requiring treatment were divided into two groups, those requiring one- or two-surface restorations, and those teeth that required more extensive repair or extraction. One- and two-surface restorations are usually fairly simple restorations. and were considered to involve minimal damage to the tooth. Restorations requiring more than two-surfaces, or extraction, normally involve more damage to the tooth.

## h. 2 deft/DMFT

The total number of decayed, missing and filled deciduous teeth was calculated for the 6-year-old group. The sum of the decayed teeth was derived by adding together a total of more than 15 different codes (Table 23a). The DMFT was also calculated for the permanent teeth present (Table 23b).

The average numbers are high for the MCDP population for all three categories. The $\mathrm{d} / \mathrm{def}$ index shows, however, that the decayed component is a large proportion (70\%) of the total in the MCDP population, while the number of teeth missing (due to caries) and filled teeth comprises a much smaller proportion of the total deft.

The teeth recorded as missing in six-year-olds were primarily Deciduous Maxillary Incisors and Deciduous Molars. These teeth were, therefore, lost due to caries or "other" causes, and not likely due to normal exfoliation and advanced eruption of the permanent successors.

| TABLE 22a. | DECAYED TEETH - 6-year-olds |  |  |
| :--- | :---: | :---: | :--- |
|  | MCDP $(\mathrm{N}=137)$ |  |  |
| Treatment Required | Total | Mean |  |
| Decayed - no treatment required | 79 | 1.22 | (Code BO) |
| One-surface restoration required | 148 | 1.08 | (Codes B1,D1,E1) |
| Two-surface restoration required | 218 | 1.59 | (Codes B2,D2,E2) |
| Three-surface restoration required | 43 | 0.31 | (Codes B3,D3,E3) |
| >than three-surface or crown required | 115 | 0.84 | (Codes B4,D4,E4) |
| Extraction required | 58 | 0.42 | (Codes B5,B5/9,D5, E5) |
| TOTAL | 661 | 4.825 |  |


| TABLE 22b. | DECAYED TEETH - 6-year-olds |  |  |
| :--- | :---: | :---: | :--- |
|  | MCDP $(\mathrm{N}=137)$ |  |  |
| Treatment Required | Total | Mean |  |
| One-surface restoration required | 188 | 1.37 | (Codes B0,B1,D1,E1) |
| Two-surface restoration required | 257 | 1.88 | (Codes B0,B2,D2,E2) |
| Three-surface restoration required | 43 | 0.31 | (Codes B3,D3,E3) |
| >than three-surface or crown required | 115 | 0.84 | (Codes B4,D4,E4) |
| Extraction required | 58 | 0.42 | (Codes B5,B5/9,D5, E5) |
| TOTAL | 661 | 4.82 |  |


|  | TABLE 23a. | deft -6 -year-olds |  |
| :--- | ---: | ---: | :--- |
|  | MCDP | $(\mathrm{N}=137)$ |  |
|  | Total | Mean | Codes |
| Number of decayed teeth | 661 | 4.83 | (Codes BO-B5,D1-D5,E1-E5) |
| Number of missing teeth | 62 | 1.51 | (Codes MO,M9) |
| Number of filled teeth | 226 | 1.68 | (Code CO) |
|  | 949 | 6.93 |  |
| d/def INDEX | $661 / 949$ | .70 |  |


| TABLE 23b. DMFT - 6-year-olds * MCDP ( $\mathrm{N}=137$ ) |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Total | Mean | Codes |
| Number of decayed teeth | 151 | 1.10 | (Codes 11-15) |
| Number of missing teeth | 0 | 0.00 | (Codes 50) |
| Number of filled teeth | 8 | 0.58 | (Code 20) |
|  | 159 | 1.16 |  |
| deft + DMFT |  | 8.09 |  |

* The mean DMFT for 6 -year-old children is based on an average of 4.17 permanent teeth per child (s.d. .703), although some children in the population have as many as 8 permanent teeth.


## h.3. Unerupted, Impacted or Congenitally Missing Teeth

No data were available for 6 -year-olds to indicate whether any deciduous teeth were congenitally missing. It was presumed that all missing teeth were the result of normal exfoliation or dental caries.

## h. 4 Dental Caries Status by School

The total sample of 6-year-olds was not divided by school as the sample sizes were too variable to give an accurate picture of any differences that might exist.

## h. 5 Exposure to Fluoride

No analysis was done comparing schools participating in the fluoride rinse program and whose that were not because of the highly variable sample sizes.

## 2. 13-Year-olds' results

## a. General Information

Each child's exact age at examination was calculated by computer using the birthdate and date of examination. Each child was assigned a reference number and coded according to sex and the location of the reserve.

## b. Service Utilization

This section was not available for the MCDP data. This program operates very differently, however, than the SCTC program. The clinics are set up in schools and the children are recalled from the classroom on an annual basis. Compliance is therefore very high unless the child is continually absent from school. Consent forms are signed by parents for their children to be seen by the Dental Therapists in the program.

## c. Disorders of Mucosa, Teeth and Bone and other Conditions

Oral Mucosa: - see also section e. Periodontal Treatment Needs
The gingival tissues were assessed as being either healthy, or showing signs of gingivitis. Only 15 of the thirteen-year-olds were found to have completely healthy soft tissues, 16 showed signs of mild gingivitis, and the remaining 73 had obvious gingivitis requiring preventive treatment. Of these 73 children, 15 required scaling as well as plaque removal. The oral hygiene status was recorded in some cases. Fifteen children were noted as having good oral hygiene, 16 children were fair, and 23 children had poor oral hygiene.

## Defects of Teeth:

Very few conditions were recorded in this section: primarily the occurrence of hypoplasia, abrasion, and retained deciduous teeth or impacted permanent teeth. Hypoplasia and abrasion are not looked at in this report as the number of cases reported were not considered above normal or significant. The number of retained and impacted teeth is considered in section h. 3 (Unerupted, Impacted or Congenitally Missing Teeth).

## Disorders Involving Bone:

There were no significant findings.

## Fluorosis:

No cases of fluorosis were recorded for 13-year-olds.

## Optimal Fluoride Exposure:

For 13-year-olds, exposure to fluoride from the age of 3 to 13 years inclusive (less a maximum of 1 year) was considered optimal. Table 24 shows the number of children in each community who participated in the school fluoride rinse program.

There were considerable differences between schools in the proportion of children participating in the program. It is apparent from Table 24 that the children in four schools; Berens River (100\%), Cormorant (82.61\%), Julie Lindal (42.86\%), and Barrows Junction (41.66\%), receive most of the supplementary fluoride treatment. There is no natural fluoride in the water supply in any of these communities.

## d. Prosthetic Status

No data were available from the charts to indicate whether any of the 13 -year-olds were wearing any appliances.
e. Community Periodontal Index of Treatment Needs (CPITN)

No data were available from the charts to make an assessment of the periodontal status of the 13 -year-olds other than that already noted in section c .

## f. Dentofacial Anomalies

For 13-year-olds no significant dentofacial anomalies were found. Table 25 shows the classification of occlusion for 13 -year-olds by school. A reasonably low overall proportion (29.06\%), have some crowding of the dentition, and only $59.82 \%$ of the children have a Class I molar relationship.

The relatively high proportion of children (26.5\%) with a Class II relationship may be the result of premature loss of the maxillary deciduous molars resulting in a loss of maxillary arch length. Many of these children also have an increased (greater than normal) overjet (41.03\%) and overbite (51.28\%).

| TABLE 24. <br> PROGRAM | PARTICIPATION IN FLUORIDE RINSE | 13-year-olds (N=117) |
| :--- | :---: | :---: |
| SCHOOL | NUMBER | PERCENT |
| Barrows Junction | $5 / 12$ | 41.66 |
| Berens River | $3 / 3$ | 100.00 |
| Cormorant | $19 / 23$ | 82.61 |
| Julie Lindal | $3 / 7$ | 42.86 |
| Matheson | $0 / 5$ | 00.00 |
| Pikwitonei | $0 / 1$ | 00.00 |
| Pine Dock | $0 / 4$ | 00.00 |
| San Antonio | $0 / 2$ | 00.00 |
| Thicket Portage | $2 / 7$ | 28.57 |
| Wabowden | $3 / 20$ | 15.00 |
| Wanipigow | $0 / 33$ | 00.00 |


| TABLE 25. CLASSIFICATION OF OCCLUSION MCDP - 13-year-olds ( $\mathrm{N}=117$ ) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \mathrm{BA} \\ \mathrm{~N}=12 \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{BR} \\ \mathrm{~N}=3 \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{CO} \\ \mathrm{~N}=23 \end{gathered}$ | $\begin{gathered} \mathrm{JL} \\ \mathrm{~N}=7 \\ \hline \end{gathered}$ | $\begin{aligned} & \text { MA } \\ & \mathrm{N}=5 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { PK } \\ & \mathrm{N}=1 \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{PD} \\ & \mathrm{~N}=4 \\ & \hline \end{aligned}$ | $\begin{aligned} \text { SA } \\ \mathrm{N}=2 \\ \hline \end{aligned}$ | $\begin{gathered} \mathrm{TP} \\ \mathrm{~N}=7 \\ \hline \end{gathered}$ | $\begin{gathered} \text { WA } \\ \mathrm{N}=20 \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{WN} \\ \mathrm{~N}=33 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Total } \\ \mathrm{N}=117 \\ \hline \end{gathered}$ | \% |
| Molar Relation |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Class I | 8 | 3 | 20 | 5 | 3 | 0 | 4 | 1 | 3 | 6 | 17 | 70 | 59.82 |
| ClassII | 4 | 0 | 3 | 2 | 0 | 0 | 0 | 1 | 4 | 11 | 6 | 31 | 26.50 |
| ClassIII | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 3 | 9 | 15 | 12.82 |
| Unknown |  |  |  |  |  |  |  |  |  |  | 1 | 1 | 0.86 |
| Overjet |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Normal | 5 | 2 | 6 | 1 | 0 | 0 | 3 | 1 | 3 | 6 | 8 | 35 | 29.91 |
| Increased | 6 | 0 | 10 | 4 | 1 | 0 | 0 | 1 | 3 | 9 | 14 | 48 | 41.03 |
| Decreased | 1 | 0 | 7 | 2 | 4 | 1 | 1 | 0 | 1 | 5 | 11 | 33 | 28.20 |
| Unknown |  | 1 |  |  |  |  |  |  |  |  |  | 1 | 0.86 |
| Overbite |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Normal | 4 | 0 | 2 | 1 | 0 | 0 | 2 | 0 | 2 | 3 | 6 | 20 | 17.09 |
| Increased | 6 | 1 | 10 | 5 | 2 | 0 | 1 | 2 | 2 | 15 | 16 | 60 | 51.28 |
| Decreased | 2 | 1 | 11 | 1 | 3 | 1 | 1 | 0 | 3 | 2 | 11 | 36 | 30.77 |
| Unknown |  | 1 |  |  |  |  |  |  |  |  |  | 1 | 0.86 |
| Crowding |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Yes | 3 | 0 | 8 | 3 | 3 | 0 | 1 | 1 | 1 | 7 | 7 | 34 | 29.06 |
| No/Unknown | 9 | 3 | 15 | 4 | 2 | 1 | 3 | 1 | 6 | 13 | 26 | 83 | 70.94 |

The number of children with a Class III molar relationship (12.82\%) may be the result of premature loss of mandibular deciduous molars. These children would also have a decreased (less than normal) overjet (28.2\%) and an increased overbite (51.28\%).

With regard to the high prevalence of Class II malocclusions, a large percentage of these are likely due to space loss as a result of premature extraction of the deciduous molars rather than due to skeletal abnormalities There is no way of verifying this as studies on occlusion in Manitoba have included a cross section of all Manitoba children, and not specifically Manitoba Native children. The prevalence of Class II and Class III malocclusion for Manitoba children is presumed to be similar to the results of McPhail et al. (1972) and Shaw et al. (1987) who found that the proportion of Class II and Class III occlusions were approximately equal and ranged from 10-13\%. The MCDP children, therefore, have a much higher proportion of Class II occlusion than would be expected in a Native population.

## g. Conditions Needing Immediate Attention

Table 26 shows the number of 13 -year-old MCDP children requiring emergency treatment for relief of existing pain, or treatment of severe carious lesions likely to cause pain or infection. Overall, only $12 \%$ of the survey population is in need of immediate treatment for pain, primarily for severely decayed teeth. Pine Dock (25\%) and Barrows Junction (16.67\%) have the greatest proportion of children with severely affected teeth. Only three of the children have more than one lesion requiring immediate treatment.

|  | TABLE 26. IMMEDIATE TREATMENT REQUIREMENTS MCDP - 13-years-olds ( $\mathrm{N}=117$ ) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | BA | BR | co | JL | M A | PK | PD | SA | TP | WA | WN | Total | \% |
|  | $\mathrm{N}=12$ | $\mathrm{N}=3$ | $\mathrm{N}=23$ | $\mathrm{N}=7$ | $\mathrm{N}=5$ | $\mathrm{N}=1$ | $\mathrm{N}=4$ | $\mathrm{N}=2$ | $\mathrm{N}=7$ | $\mathrm{N}=20$ | $\mathrm{N}=33$ | $\mathrm{N}=117$ |  |
| Existing Pain | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 3 | 2.56 |
| Future Pain? | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 4 | 3.42 |
| Pulp Involved | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 3 | 2.56 |
| Other | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 8 | 6.84 |
| Total children |  |  |  |  |  |  |  |  |  |  |  |  |  |
| affected | 2 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 4 | 14 | 11.97 |
| Percent | 16.67 | 0.00 | 13.04 | 0.00 | 0.00 | 0.00 | 25.00 | 0.00 | 14.29 | 15.00 | 12.12 |  |  |

## h. Dental Caries Status and Treatment of Teeth

## h. 1 Treatment Needs

The total number of one-, two-, three-, and more than three-surface restorations required, and the number of extractions required, has been calculated separately for each age group (Table 27). The average number of teeth requiring treatment for MCDP children is 2.69 .

For purposes of analysis the number of teeth requiring treatment were divided into two groups, those requiring one- or two-surface restorations, and those teeth that required more extensive repair or extraction. One- and two-surface restorations are usually simple restorations involving minimal damage to the tooth. Restorations requiring more than two-surfaces, or extraction, involve considerably more damage to the tooth.

## h. 2 DMFT

The total number of decayed, missing and filled teeth has been calculated for each age group separately. The sum of the decayed teeth was derived by adding together a total of more than 15 different codes for each age group (Table 28).

The D/DMF index shows that, because the MCDP population has an average of fewer restorations per child, the number of decayed (unrestored) teeth contributes more to the total DMFT than for the SCTC population.

## h. 3 Unerupted, Impacted or Congenitally Missing Teeth

Table 29a shows the total number of unerupted, impacted or congenitally missing teeth in the 13 -year-old group. At this age, the number of "missing" second molars is very small (4.7\%), possibly indicating an early eruption pattern in this population (Trodden,1982).

|  | TABLE 27. | DECAYED TEETH - 13-year-olds |  |
| :--- | :---: | :---: | :--- |
|  | MCDP | $(\mathrm{N}=117)$ |  |
|  | Total | Mean |  |
|  | 197 | 1.68 | (Codes 11,31,41) |
| One-surface restoration | 102 | 0.87 | (Codes 12,32,42) |
| Two-surface restoration | 13 | 0.11 | (Codes 13,33,43) |
| Three-surface restoration | 3 | 0.03 | (Codes 14,34,44) |
| >than three-surface or crown | 0 | 0.00 | (Codes 15,35,45) |
| Extraction | 315 | 2.69 |  |
| Total Decayed Teeth |  |  |  |



However, the children who are "missing" canines, or second premolars, (most likely impacted as a result of premature loss of deciduous teeth) will probably show crowding and occlusion problems. The presumption is that these teeth were unable to erupt due to a lack of space.

This assumption would not include the second molars or maxillary second premolars which are likely just late (unerupted). The mandibular second premolars could be congenitally missing. No history was available to answer this question accurately. Three children had four or more unerupted teeth, with one of these children having seven unerupted teeth.

There were also thirty three teeth which could not be accounted for, either because no radiographs were taken on the examination appointment, or the teeth could not be seen on the radiographs. Twenty six of these teeth were found in four children, while the remaining "excluded" teeth (Code 90) were not necessarily found in the same children who also had unerupted teeth. A table (Table 29b) is included merely to show that the distribution of these teeth is similar to that of the unerupted teeth. It is possible, therefore, that at least some of them are unerupted or impacted.

## h. 4 Dental Caries Status by School

The total sample of 13 -year-olds was not divided by school as the sample sizes were too variable to give an accurate picture of any differences that might exist.

## h. 5 Exposure to Fluoride

No analysis was done comparing schools participating in the fluoride rinse program and those that were not because of the highly variable sample sizes. For several schools this information was not consistently recorded and therefore was not considered to be reliable.

| TABLE 29a. | UNERUPTED, IMPACTED, or CONG. MISSING TEETH |  |  |
| :--- | :--- | :--- | :--- |
|  | MCDP |  |  |
| 13-year-olds $(\mathrm{N}=117)$ |  |  |  |
| Maxillary Canines | 5 | Mandibular Canines | 0 |
| Max. Second Premolars | 4 | Mand. Second Premolars | 11 |
| Max. Second molars | 15 | Mand. Second molars | 7 |
| TOTAL $=42 / 117$ | Mean (per child) $=0.36$ |  |  |


|  | TABLE 29b. | EXCLUDED TEETH |  |  |  |
| :--- | :--- | :--- | :--- | :---: | :---: |
|  | MCDP | 13-year-olds $(\mathrm{N}=117)$ |  |  |  |
| Maxillary Canines | 2 | Mandibular Canines | 1 |  |  |
| Max. Second Premolars | 4 | Mand. Second Premolars | 5 |  |  |
| Max. Second molars | 12 | Mand. Second molars | 9 |  |  |
| TOTAL $=33 / 117$ | Mean $=0.28$ (per child) |  |  |  |  |

## D. COMPARISON OF SCTC DATA TO MCDP DATA

## 1. 6-Year-olds

The data for SCTC 6 -year-olds and 13-year-olds were compared to the data for MCDP 6 -year-olds and 13-year-olds to see if there was a significant difference between the two populations.

## a. Conditions Needing Immediate Attention

A comparison is included in Table 30 showing the number of children in each population requiring immediate treatment for dental lesions either causing pain, or likely to cause pain and which in more than half the cases involved the pulp of the tooth. In each population there were several children who had more than one dental problem and were thus were scored positively in more than one category. The categories, therefore, are not mutually exclusive, which is why the total number of children affected in each population is less than half the total number of categories scored.

## Chi-Square Analysis

A Chi-Square analysis was done (Table 31) to see whether there was a significant difference in the number of children requiring immediate treatment between the two populations. The SCTC 6-year-olds were compared to MCDP 6-year-olds. The total number of children was divided into those requiring immediate treatment for any of the categories, and those who did not.

\(\left.\begin{array}{|lcc|}\hline Table 31. Immediate Treatment Needs <br>

Chi-Square\end{array}\right]\)| 6-year-olds | SCTC | MCDP |
| :--- | :--- | :--- |
| Immediate. Tx. | 47 | 76 |
| No immediate. Tx. | 61 | 61 |

$$
x^{2}=3.453 \quad \mathrm{p}<.0631 \quad \text { d.f. }=1
$$

There is no statistically significant difference between the immediate treatment needs of 6 -year-olds in the two populations.

## b. Treatment Needs

The total number of one-, two-, three-, and more than three-surface restorations required, and the number of extractions required, for SCTC children is compared to MCDP children aged 6 years (Table 32). The category "BO" (decayed, no treatment required) is left intact in this table to compare data from the two populations.

For purposes of analysis the number of teeth requiring treatment were divided into two groups, those requiring one- or two-surface restorations, and those teeth that required more extensive repair or extraction. The category " BO " was added to the one- and two-surface restorations as was done for Table 6b and Table 22b.

Although the MCDP 6-year-old children have more teeth requiring restorations than the SCTC children, the proportion of one- and two-surface and for more than two-surface restorations are very similar.

## Chi-Square Analysis

For purposes of the Chi Square analysis the number of teeth requiring treatment were divided into two groups, those requiring one- or two-surface restorations (simple treatment), and those teeth that required more extensive repair or extraction. One-surface restorations are usually simple restorations involving either the occlusal surface or a facial or lingual surface. Two-surface restorations may in fact involve only a proximal surface, but in order to gain access to the proximal surface, the occlusal is restored as well. Both of these types of restorations were considered to involve minimal damage to the tooth. Restorations requiring more than two-surfaces, or extraction, involve considerably more damage to the tooth. This analysis was concerned primarily with determining whether there was a difference between the two groups in the proportion of simple and extensive treatment required rather than a comparison by individual surfaces of teeth.

For the SCTC population the total number of deciduous teeth requiring a one- or twosurface restoration is $132+64+126=322$, and the number of permanent teeth requiring a one- or two-surface restoration is $37+20=57$. The number of deciduous teeth requiring more than a twosurface restoration is $12+103+45=160$., and the number of permanent teeth requiring more than a two-surface restoration is $2+1+1=4$ (Table 32).

For the Chi-Square cells the one-or two-surface decay for both deciduous (321) and permanent (58) teeth were added together for a total of 379 . More than two-surface is $160+4=$ 164.

For MCDP children the "d" sum was calculated in the same fashion. For the Chi-Square cells the one-or two-surface decay for both deciduous $(79+147+218)$, and the permanent (63+74) were added together for a total of 581. The total for more than two-surface is 231.

| TABLE 32. DECAYED TEETH - 6-year-olds |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | SCTC ( $\mathrm{N}=108$ ) |  | MCDP ( $\mathrm{N}=137$ ) |  |
|  | Decid | Perm. | Decid. | Perm. |
| Decayed - no treatment required | 132 | 0 | 79 | 0 |
| One-surface restoration required | 64 | 37 | 148 | 63 |
| Two-surface restoration required | 126 | 20 | 218 | 74 |
| Three-surface restoration required | 12 | 2 | 43 | 7 |
| >than three-surface or crown required | 103 | 1 | 115 | 7 |
| Extraction required | 45 | 1 | 58 | 0 |
| TOTAL | 482 | 61 | 661 | 151 |


| Table 33. Decayed Teeth <br> Chi-Square  |  |  |
| :--- | :---: | :---: |
| 6-year-olds | SCTC | MCDP |
| 1 -2 surfaces | 379 | 581 |
| $>$ two-surfaces | 164 | 231 |

$$
x^{2}=.485 \quad \mathrm{p}<.4862 \quad \text { d.f. }=1
$$

There is no significant difference between the two populations in the number of one-and two surface restorations required. Both populations have a high proportion (>69\%) of children requiring relatively simple restorations.

## c. deft/DMFT

The total number of decayed, missing and filled deciduous and permanent teeth has been calculated for the 6 -year-old groups. The sum of the decayed teeth was derived by adding together a total of more than 15 different codes (Table 34).

For SCTC the total number of decayed deciduous teeth, including "BO", plus the total number of missing and filled teeth were added together to comprise the deft $=7.63$. For MCDP children the total number of decayed deciduous teeth, plus the total number of missing and filled teeth were added together to comprise the total deft $=6.93$.

For SCTC the total DMFT comprises the sum of all the teeth coded for the "D", plus missing and filled teeth, DMFT $=.676$. For MCDP the total DMFT comprises the sum of all the teeth coded for the "D", plus missing and filled teeth, DMFT = 1.16. The average number of decayed permanent teeth is relatively low for both groups because most 6 -year-olds only have six to eight permanent teeth which are all newly erupted, and, therefore, have only been in the oral cavity a short period of time.

The teeth recorded as missing in six-year-olds were primarily Deciduous Maxillary Incisors and Deciduous Molars. These teeth were, therefore, lost due to caries or "other" causes, and not due to normal exfoliation and advanced eruption of the permanent successors.

The DMFT for 6 -year-old SCTC children is based on an average of six permanent teeth per child (s.d. 2.03), although some children in the population have as few as three permanent teeth, and a few children have as many as 12. For MCDP the average number of permanent teeth is four teeth per child (s.d. 0.703), although some children in the population have as many as eight permanent teeth.

## Chi-Square Analysis

For both SCTC and MCDP children the decayed and missing deciduous teeth, including "BO", plus the decayed and missing permanent teeth, were compared to the filled component of the deft and DMFT (Table 35). The data was divided in this manner to reflect the number of teeth
"unsuccessfully" treated (decayed and missing) as compared to those "successfully" treated (filled).

A series of Chi Square tests was then done comparing only the deciduous teeth between the two groups, and comparing only the permanent teeth between the two groups. There were highly significant differences between groups for both the deciduous teeth $\left(X^{2}=70.46, p<\right.$ .0001 , d.f. $=2$ ) and permanent teeth $\left(X^{2}=6.7, p<.0096\right.$, d.f. $=1$ ). An additional Chi Square was done comparing only the number of decayed teeth between groups. This test was also highly significant $\left(X^{2}=12.65, p<.0004\right.$, d.f. $=1$ ). The result obtained in Table 35 masks the fact that there is a significant difference between the two groups. This difference lies in the fundamentally different pattern of decayed and missing teeth. The SCTC children have considerably more deciduous teeth missing than do MCDP, while the MCDP children have more permanent teeth decayed.

As a result of these conflicting Chi Square results an unpaired two-group $t$ test (ANOVA) was done comparing the deft/DMFT scores for each child. The range of values for the deft/DMFT was between 0 and 19 (Table 36). The two groups were found not to be statistically different.

|  | TABLE 34. | deft/DMFT - 6-year-olds |  |  |
| :--- | :---: | :---: | :---: | :---: | ---: |
|  |  |  |  |  |
|  | SCTC (N=108) |  | MCDP (N=137) |  |
|  | Decid | Perm. | Decid. | Perm. |
|  | 481 | 62 | 661 | 151 |
| Number of decayed teeth | 163 | 0 | 62 | 0 |
| Number of missing teeth | 180 | 11 | 226 | 8 |
| Number of filled teeth | 824 | 73 | 949 | 159 |
|  | 7.630 | .676 | 6.927 | 1.161 |


| Table 35. deft/DMFT <br> Chi-Square |  |  |
| :---: | :---: | :---: |
| 6-year-olds | SCTC | MCDP |
| Decayed (dD) + Missing (eM) | 706 | 874 |
| Filled (fF) | 191 | 234 |

$$
X^{2}=0.1 \quad p<.9192 \quad \text { d.f. }=1
$$

There is no significant difference between the two groups with regard to the proportion of decayed and missing teeth (deciduous and permanent teeth combined) compared to the number of filled teeth. See the discussion in the text of further Chi-Square testing which showed that there were significant internal differences.

| TABLE | 36. | deft/DMFT |
| :---: | :---: | :---: | 6-year-olds

$$
t=1.233 \quad p<.2251 \quad \text { d.f. }=38
$$

## d. Summary

The results in both 6-year-old groups are very similar and not statistically significant. The number of children in each population requiring immediate treatment was quite high but there was no statistically significant difference between SCTC and MCDP. The average number of decayed teeth requiring treatment is high, particularly for teeth needing two-surface restorations, while it is low for teeth requiring more complex restorations for both the SCTC and MCDP samples. There was no statistically significant difference found between the two groups for the type of restorations required. Both groups have a high mean deft/DMFT score with the "dD" component being the largest for both groups. There was also no statistically significant difference between the two samples with regard to the proportion of decayed and missing teeth compared to the number of filled teeth.

Because there was no statistically significant difference found in any of the statistical tests performed, the decision that these two groups could be combined to form one Native group of 6-year-olds is justified.

## 2. 13-Year-olds

## a. Conditions Needing Immediate Attention

A comparison is included in Table 37 showing the number of children in each population requiring immediate treatment for dental lesions either causing pain, or likely to cause pain and which in more than half the cases involved the pulp of the tooth. In each population there were some children who had more than one dental problem and were thus were scored positively in more than one category. The categories, therefore, are not mutually exclusive, which is why the total number of children affected in each population is less than the total number of categories scored. For this reason, the categories can not be separated for purposes of chi-square analysis. There are relatively few children in either population of 13-year-olds requiring immediate treatment compared to the 6 -year-olds (Table 30).

## Chi-Square Analysis

The SCTC 13 -year-olds were compared to MCDP 13-years-olds. The total number of children was divided into those requiring immediate treatment for pain, and those who did not.

A Chi-Square analysis was done to see whether there was a significant difference in the number of children requiring immediate treatment between the two populations.

|  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | TABLE 37. | IMMEDIATE | TREATMENT | NEEDS |
|  | SCTC | 13-year-olds |  |  |
|  | $(\mathrm{N}=108)$ |  | MCDP | $\%$ |
|  | 6 | 5.55 | 3 | 2.56 |
| Existing pain or infection | 16 | 14.81 | 4 | 3.42 |
| Lesions likely to cause pain | 1 | 0.93 | 3 | 2.56 |
| Pulpally involved teeth | 1 | 0.93 | 8 | 6.84 |
| Other | 17 | 15.74 | 14 | 11.97 |
| Total children affected |  |  |  |  |


| Table 38. Immediate Treatment | Needs |  |
| :--- | :---: | :---: |
| Chi-Square |  |  |
| 13-year-olds | SCTC | MCDP |
| Immediate. Tx. | 17 | 14 |
| No immediate. Tx. | 91 | 103 |

$$
x^{2}=0.674 \quad \mathrm{p}<.4118 \quad \text { d.f. }=1
$$

There is no statistically significant difference between the immediate treatment needs of 13 -year-olds in the two populations.

## b. Treatment Needs

The total number of decayed teeth (Treatment required) was divided into those teeth requiring one- or two-surface restorations and those requiring more than a two-surface restoration. The total number of one-, two-, three-, and more than three-surface restorations required, and the number of extractions required, has been calculated separately for each group (Table 39).

For purposes of analysis the number of teeth requiring treatment were divided into two groups, those requiring one- or two-surface restorations, and those teeth that required more extensive repair or extraction. One- and two-surface restorations were both considered to involve minimal damage to the tooth. Restorations requiring more than two-surfaces, or extraction, involve considerably more damage to the tooth.

## Chi-Square Analysis

A Chi-Square analysis was done to see whether there were significant differences in the types of treatment required between the two populations.

The SCTC 13-year-olds were compared to MCDP children 13-year-olds. The total number of decayed teeth (treatment required) was divided into those teeth requiring one- or two-surface restorations, and those requiring more than a two-surface restoration (Table 40).

Further Chi Square testing was done to see where the major difference was between the two groups. Although there was no statistically significant difference in the pattern of restorations required, there was a significant difference in the number of extractions required between the two groups. ( $X^{2}=20.49, \mathrm{p}<.0004$, d.f. $=4$ ). An explanation of this difference may be related to the frequency of dental care received by the two groups. The MCDP children are treated annually in the schools, while the SCTC children receive dental care on a more irregular basis resulting in the teeth being more severely decayed when they do receive treatment, and thus requiring an extraction.

| TABLE 39. | DECAYED TEETH - 13-year-olds |  |
| :--- | :---: | :---: |
|  | SCTC $(\mathrm{N}=108)$ |  |
|  |  | MCDP $(\mathrm{N}=117)$ |
| Decayed - no treatment | 120 | 197 |
| One-surface restoration | 78 | 102 |
| Two-surface restoration | 11 | 13 |
| Three-surface restoration | 2 | 3 |
| Pthan three-surface or crown | 13 | 0 |
| Extraction | 224 | 315 |
| TOTAL |  |  |


| Table 40. Decayed Teeth Chi-Square |  |  |
| :---: | :---: | :---: |
| 13-year-olds | SCTC | MCDP |
| 1-2 surface | 198 | 299 |
| >two-surface | 26 | 16 |

$$
x^{2}=7.764 \quad \mathrm{p}<.0053 \quad \text { d.f. }=1
$$

There is a highly statistically significant difference between the two populations in the type of treatment required. See the discussion in the text of further Chi-Square testing which showed where significant internal differences were found.

## c. DMFT

The dental caries rate for SCTC was compared to that for MCDP 13-year-old children. The " D " and " M " components were added together (no treatment and unsuccessful treatment) and compared to the " F " component (successful treatment).

The total number of decayed, missing and filled teeth has been calculated for each group separately. The sum of the decayed teeth was derived by adding together a total of more than 15 different codes for each age group (Table 41).

## Chi-Square Analysis

The SCTC population was compared to MCDP 13-year-old children. The "D" and "M" components were added together (no treatment and unsuccessful treatment), and compared to the "F" component (successful treatment).

A similar problem was found for 13 -year-olds as in the 6 -year-olds. Additional Chi Square testing was done to see where the difference occurred. There was a highly significant difference in the total DMFT between the two groups $\left(x^{2}=19.16\right.$, $\mathrm{p}<.0001$, d.f. $=2$ ) and for the number of missing teeth only ( $X^{2}=18.99$, $\mathrm{p}<.0001$, d.f. $=1$ ). The major difference was found, therefore, to be in the pattern of extracted teeth which masked the result found in Table 42.

In order to further test these results for a statistical difference between the two groups, an unpaired two-group $t$ test (ANOVA) was done comparing the deft/DMFT scores for each child. The range of values for the DMFT was between 0 and 18 (Table 43). The two groups were found not to be statistically different.

|  | TABLE 41. DMFT - 13-year-olds |  |
| :--- | :---: | :---: |
|  | SCTC $(\mathrm{N}=108)$ | MCDP $(\mathrm{N}=117)$ |
| Number of decayed teeth | 224 | 315 |
| Number of missing teeth | 28 | 8 |
| Number of filled teeth | 419 | 597 |
|  | 671 | 920 |
| DMFT | 6.213 | 7.863 |


| Table 42. DMFT <br> Chi-Square  |  |  |
| :--- | ---: | ---: |
|  |  |  |
| 13-year-olds | SCTC | MCDP |
| Decayed + Missing | 252 | 323 |
| Filled | 419 | 597 |

$$
X^{2}=1.007 \quad p<.3157 \quad \text { d.f. }=1
$$

There is no statistically significant difference between the two groups. The "D+M" components comprise approximately $37 \%$ of the DMFT for both groups. See the discussion in the text of further Chi-Square testing which showed that there were significant internal differences.

| DMFT | MCDP <br> \# of children | $\begin{gathered} \text { SCTC } \\ \text { \# of children } \end{gathered}$ |
| :---: | :---: | :---: |
| 0 | 3 | 4 |
| 1 | 1 | 0 |
| 2 | 2 | 5 |
| 3 | 3 | 8 |
| 4 | 7 | 20 |
| 5 | 15 | 14 |
| 6 | 18 | 8 |
| 7 | 5 | 16 |
| 8 | 14 | 13 |
| 9 | 16 | 4 |
| 10 | 11 | 3 |
| 11 | 5 | 5 |
| 12 | 5 | 4 |
| 13 | 4 | 2 |
| 14 | 1 | 2 |
| 15 | 3 | 0 |
| 16 | 2 | 0 |
| 17 | 0 | 0 |
| 18 | 2 | 0 |
| TOTAL | 117 | 108 |

$$
t=0.243 \quad p<.809 \quad \text { d.f. }=36
$$

## d. Summary - 13-year-olds

The results in both 13 -year-old groups are very similar and not statistically significant. The percentage of children requiring immediate treatment is very low (12-15\%) compared to the 6-year-olds and there is no statistically significant difference between the two groups. The number of decayed teeth requiring extensive treatment is not significantly different between the two groups of children. Both 13-year-old groups have a very high DMFT, but a much larger proportion of teeth are 'filled' compared to the 6 -year-olds. There is no statistically significant difference between the two groups. The "filled" component comprise a much larger proportion (62-64\%) of the DMFT for both groups compared to the 6-year-olds (19-21\%).

Because there was no statistically significant difference found in any of the statistical tests performed, it was decided that these two groups could be combined to form one Native group of 13-year-olds.

CHAPTER IV. ANALYSIS OF RESULTS

## CHAPTER IV. ANALYSIS OF RESULTS

## A. COMPARISON OF MANITOBA RURAL NATIVE CHILDREN TO MANITOBA RURAL WHITE CHILDREN

The data for rural Native children were compared to the "Dental Health Survey of Manitoba Children, 1976" (Cageorge et al., 1978), in particular rural Manitoba children 5 and 13 years of age. Despite differences in the methodology employed and the difference in investigators, this study, although fairly old, was found to be the only reliable study of Manitoba children. A more recent unpublished study (1982) was felt by Cooney (1989) to be seriously flawed in the methodology.

## I. 5-6-Year-olds

The data for 6-year-old rural Native children were compared to the data for 5-year-old Manitoba rural White children (1976) to see if there were significant differences between the two populations.

## a. Conditions Needing Immediate Attention

A comparison is included in Table 44 showing the number of children in each population requiring immediate treatment. Many of the children had more than one lesion requiring immediate treatment, which is why the total for all the categories exceeds the actual number of children affected. The categories, therefore, are not mutually exclusive, and cannot be separated for purposes of analysis. No "other"category was included in the Manitoba 1976 data. It was left in for the rural Native sample because it contained a significant number of entries.

This table shows a significantly lower result for Manitoba 1976 rural 5-year-olds compared to rural Native children. According to the 1976 Manitoba survey, the percentages were higher for
rural children for all three types of conditions and for all age groups, with the rural children aged nine years in the greatest need of treatment (Cageorge et al.,1978:49).

## Chi-Square Analysis

A Chi-Square analysis was done to see whether there was a significant difference in the number of children requiring immediate treatment between the two populations. The rural Native 6 -year-olds were compared to Manitoba 1976 rural 5 -year-olds (Table 45). The total number of children was divided into those requiring immediate treatment for pain, and those who did not.

## b. Treatment Needs

The total number of one-, two-, three-, and more than three-surface restorations required, and the number of extractions required, for rural Native children was compared to Manitoba rural 1976 children aged 5 years (Table 46). Although these results are not truly comparable for permanent teeth, it is apparent that the rural Native population has a greater number of deciduous teeth requiring treatment and particularly those children with teeth requiring extensive restorations (crown, pulpotomy, etc.) or extractions.

For the rural Native population the total number of deciduous teeth included as requiring one- or two-surface restorations is $211+212+344=767$, and the number of permanent teeth is 194. The number of deciduous teeth requiring more than two-surface restorations is $55+218+103=376$ and for permanent teeth the number is 18. (Table 46).

For Manitoba rural children the "d" sum was calculated from the mean values given in Table III-10 (Cageorge et al., 1978:58). These data do not include a category comparable to "BO". It is presumed that permanent teeth are included in the total given (3.25), because it does not equal the values given in Table III-9 for the "d" category (3.18) (Cageorge et al., 1978:57). The total DMFT for this group is 0.13 . The presumption was made that the " D " component is 0.07 (3.25-3.18) and the remaining 0.06 was assigned to the "F" component, as it is highly unlikely that 5 -year-olds would have had permanent teeth extracted due to caries ("M").

| TABLE 44. IMMEDIATE TREATMENT NEEDS - 5-6-year-olds COMBINED DATA - SCTC and MCDP |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Rural Native $(\mathrm{N}=245)$ | \% | Man. Rural '76 $(\mathrm{N}=175)$ | \% |
| Existing pain or infection | 58 | 23.67 | 7 | 4.0 |
| Lesions likely to cause pain | 95 | 38.77 | 5 | 2.8 |
| Pulpally involved teeth | 82 | 33.47 | 18 | 10.2 |
| Other | 31 | 12.65 |  |  |
| Total children affected | 123 | 50.20 | 30 | 17.0 |


| Table 45. Immediate Treatment | Needs |  |
| :--- | :---: | :---: |
| Chi-Square |  |  |
| 5-6-year-olds | Rural Native | Man. Rural '76 |
| Immediate Tx. | 123 | 30 |
| No immediate Tx. | 122 | 145 |

$$
x^{2}=48.182 \quad p<.0001 \quad \text { d.f. }=1
$$

There is a highly significant statistical difference between the immediate treatment needs of 5, 6-year-olds in the two populations.

## Chi-Square Analysis

For Rural Native children the one- and two-surface decay (including the category "BO") for both deciduous (767) and permanent (194) were added together for a total of 961 . The decay for more than two-surfaces is $376+18=394$.

For the Manitoba 1976 rural children the one- and two-surface decay for both deciduous and permanent is 478 , and the total for more than two-surface decay (including extractions required) is 91 (Table 47).

The difference between the two groups was found to be highly statistically significant. Additional Chi Square testing was done to determine where the major difference occurred. All the possible combinations were found to be highly significant, showing that the pattern of treatment required was totally different for the two groups. The Rural Native 6 -year-olds required a much greater number of restorations, in all categories, and extractions than the Rural White group.

| TABLE 46. DECAYED TEETH - 5-6-year-olds COMBINED DATA - SCTC and MCDP |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Rural Native$(\mathrm{N}=245)$ |  |  | Man. Rural '76$(N=175)$ |  |
|  | Decid. | Perm. | Mean | Total | Mean |
| Decayed - no treatment required | 211 | 0 | 0.86 |  |  |
| One-surface restoration required | 212 | 100 | 1.27 | 270 | 1.54 |
| Two-surface restoration required | 344 | 94 | 1.79 | 208 | 1.19 |
| Three-surface restoration required | 55 | 9 | 0.26 | 32 | 0.18 |
| >than three-surface or crown required | 218 | 8 | 0.92 | 26 | 0.15 |
| Extraction | 103 | 1 | 0.42 | 33 | 0.19 |
| TOTAL |  | 1143 | 212 | 5.53 | 569 |
| 3.25 |  |  |  |  |  |


| Table 47. Decayed Teeth Chi-Square |  |  |
| :---: | :---: | :---: |
| 5-6-year-olds | Rural Native | Man. Rural '76 |
| 1-2 surface decay | 961 | 478 |
| >two-surface decay | 394 | 91 |

$$
x^{2}=36.389 \quad p<.0001 \quad \text { d.f. }=1
$$

There is a highly significant statistical difference between the two populations in the types of restorations required. The rural Native population has a higher proportion (29.08\%) of children requiring more extensive restorations or extractions compared to Manitoba 1976 rural children ( $15.99 \%$ ). See the discussion in the text of further Chi-Square testing which showed where the significant internal differences were found.

## c. deft/DMFT

The total number of decayed, missing and filled teeth has been calculated for the 6-yearold groups. The sum of the decayed teeth was derived by adding together a total of more than 15 different codes (Table 48).

For rural Native children, the total deft comprises the sum of: the number of decayed teeth including "BO", plus the total number of decayed teeth, plus the total number of filled teeth were added together to comprise the deft $=7.66$. For Manitoba rural children the mean values in Table III-9, 1976 were added together to comprise the total deft $=4.22$.

For rural Native children, the total DMFT comprises the sum of all the coded for the "D" plus missing and filled DMFT $=.67$. For Man rural the "D" component is 0.07 of the total DMFT of 0.13 (Table III-9, 1976).

Although these results are not truly comparable for permanent teeth, the average numbers are considerably higher for the rural Native population for all three categories. The d/def index shows, however, that the decayed component is a smaller proportion of the total in the rural Native population, while the number of missing (due to caries) and filled teeth comprise a much larger proportion of the total deft.

## Chi-Square Analysis

For both rural Native and Manitoba 1976 rural children, the decayed and missing deciduous teeth, including "BO", plus the decayed and missing permanent teeth, were compared to the filled component of the deft and DMFT (Table 49). No statistically significant difference was found between the two groups.

| TABLE 48. deft/DMFT - 5-6-year-olds COMBINED DATA - SCTC and MCDP |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Rural Native$(\mathrm{N}=245)$ |  |  | Man. Rural '76$(\mathrm{N}=175)$ |  |
|  | Decid | Perm. | Mean | Total | Mean |
| Number of decayed teeth | 1143 | 212 | 5.53 | 569 | *3.25 |
| Number of missing teeth | 225 | 0 | 0.91 | 16 | 0.09 |
| Number of filled teeth | 407 | 19 | 1.73 | 177 | 0.95 |
|  | 1775 | 231 |  | 762 |  |
| deft/DMFT | 7.25 | . 94 | 8.2 |  | 4.35 |
| d/def Index |  | 0.64 |  |  | 0.75 |


| Table 49. deft/DMFT Chi-Square |  |  |
| :---: | :---: | :---: |
| 5-6-year-olds | Rural Native | Man. Rural ' 76 |
| Decayed (dD) + Missing (eM) | 1580 | 585 |
| Filled (fF) | 426 | 177 |

$$
X^{2}=1.286 \quad \mathrm{p}<.2568 \quad \text { d.f. }=1
$$

There is no significant statistical difference between the two groups with regard to the proportion of decayed and missing teeth ( $76-78 \%$ ) compared to the number of filled teeth ( 21 $23 \%$ ).

## d. Summary

In the rural Native 6-year-old group, the average number of decayed teeth requiring treatment is considerably higher than in the Manitoba 1976 rural sample, particularly for teeth needing extensive treatment (crown, pulpotomy, etc.), while it is lower for teeth requiring simple one-surface restorations. The 6-year-olds have a much higher deft rate than rural Manitoba 5 -yearolds. Although the "d" component is smaller in the d/def ratio, the proportion of extensive restorations and extractions required is much greater, indicating that these children do not receive treatment until the teeth have been severely damaged.

## II. 13-Year-olds

## a. Conditions Needing Immediate Attention

A comparison is included in Table 50 showing the number of children in each population requiring immediate treatment. Many of the children had more than one lesion requiring immediate treatment, which is why the total for all the categories exceeds the actual number of children affected. The categories, therefore, are not mutually exclusive, and cannot be separated for purposes of analysis. No "other" category is included in the Manitoba 1976 data. This category was included in the rural Native data as it contains a significant number of cases.

## Chi-Square Analysis

The rural Native 13-year-olds were compared to Manitoba 1976 rural 13-years-olds. The total number of children was divided into those requiring immediate treatment for pain, and those who did not.

A Chi-Square analysis was done to see whether there was a significant difference in the number of children requiring immediate treatment between the two populations.

| TABLE 50. IMMEDIATE TREATMENT NEEDS - 13-year-olds COMBINED DATA - SCTC and MCDP |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Rural Native $(\mathrm{N}=245)$ | \% | Man. Rural '76 $(\mathrm{N}=175)$ | \% |
| Existing pain or infection | 9 | 3.67 | 1 | 0.6 |
| Lesions likely to cause pain | 20 | 8.16 | 9 | 5.1 |
| Pulpally involved teeth | 4 | 1.63 | 0 | 0.0 |
| Other | 9 | 3.67 |  |  |
| Total children affected | 31 | 12.65 | 10 | 5.7 |

$\left.\begin{array}{|lcc|}\hline \text { Table 51. Immediate Treatment } & \text { Needs } \\ & \text { Chi-Square }\end{array}\right]$

$$
X^{2}=5.58 \quad p<.0182 \quad \text { d.f. }=1
$$

There is a significant difference between the immediate treatment needs of 13 -year-olds in the two populations. Over $12 \%$ of rural Native children require immediate treatment, while only $5.7 \%$ of rural White children require immediate treatment.

## b. Treatment Needs

The total number of decayed teeth (Treatment required) was divided into those teeth requiring one- or two-surface restorations and those requiring more than a two-surface restoration.

The total number of one-, two-, three-, and more than three-surface restorations required, and the number of extractions required, has been calculated separately for each group (Table 52). The treatment needs of the 13 -year-old rural rural Native children are lower in almost all categories compared to the 1976 survey of Manitoba rural and urban children (Cageorge et al., 1978). The average number of teeth requiring treatment for rural Native children is 2.2 , while 4.11 teeth required treatment in Manitoba rural children in 1976.

## Chi-Square Analysis

The Native 13 -year-olds were compared to Manitoba ' 76 rural 13 -year-olds. The total number of decayed teeth (treatment required) was divided into those teeth requiring one-or twosurface restorations, and those requiring more than a two-surface restoration.

A Chi-Square analysis was done to see whether there were significant differences in the types of treatment required between the two populations (Table 53). A highly statistically significant difference was found between the two populations. Additional Chi Square testing was done to determine where the difference was between the two groups. The proportions of the different types of restorations required was not statistically significant, ( $X^{2}=2.76, p<.431$, d.f. $=3$ ). The major difference was found to be in the number of extractions required, $\left(x^{2}=26.31\right.$, $\mathrm{p}<.0001$, d.f. $=4$ ). Extractions were included in this analysis as an indication of the extent of damage to the teeth.

| TABLE 52. DECAYED TEETH - 13-year-olds COMBINED DATA - SCTC and MCDP |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Rural Native$(\mathrm{N}=245)$ |  | Man. Rural '76$(\mathrm{N}=175)$ |  |
|  | Total | Mean | Total | Mean |
| Decayed - no treatment required |  |  |  |  |
| One-surface restoration required | 317 | 1.29 | 422 | 2.41 |
| Two-surface restoration required | 180 | 0.73 | 194 | 1.11 |
| Three-surface restoration required | 24 | 0.10 | 33 | 0.19 |
| >than three-surface or crown required | 5 | 0.02 | 5 | 0.03 |
| Extraction required | 13 | 0.05 | 65 | 0.37 |
| TOTAL | 539 | 2.20 | 719 | 4.11 |


| Table 53. Decayed Teeth Chi-Square |  |  |
| :---: | :---: | :---: |
| One-or two-surface decay | 497 | 616 |
| >two-surface decay | 42 | 103 |

$$
x^{2}=.12 .894 \quad \mathrm{p}<.0003 \quad \text { d.f. }=1
$$

There is a highly significant statistical difference between the two populations in the type of treatment required. The rural Manitoba 13 -year-old children require considerably more extensive restorations or extractions ( $14.3 \%$ ) than the rural Native children ( $7.79 \%$ ). See the discussion in the text of further Chi-Square testing which showed where significant internal differences were found.

## c. DMFT

The caries rates for rural Native children were compared to those for Manitoba 1976 rural 13-year-old children. The "D" and "M" components were added together (no treatment and unsuccessful treatment) and compared to the "F" component (successful treatment).

The total number of decayed, missing and filled teeth has been calculated for each group separately. The sum of the decayed teeth was derived by adding together a total of more than 15 different codes for each age group (Table 54). The D/DMF index shows that, because the rural Native population has an average of more restorations per child, the number of decayed (unrestored) teeth contributes less to the total DMFT than it does in the sample of rural Manitoba children.
*The value for the mean number of decayed teeth in Manitoba rural children in Table 54 (3.85) differs from the "D" value of 4.11 given in Table III-10. (Cageorge et al., 1978:58). The reason for this discrepancy is that the " D " value in Table 54 does not include those teeth requiring extraction. No explanation was given for omitting this category in the 1976 Manitoba survey. The " $D$ " value of 4.11 given in Table III-10 must include deciduous teeth, which most likely require extraction at this age, and therefore are not included in the DMFT value of 3.85 .

## Chi-Square Analysis

The rural Native population was compared to Manitoba ' 76 rural 13 -year-old children. The " D " and " M " components were added together (no treatment and unsuccessful treatment), and compared to the "F" component (successful treatment). The difference between the two groups is highly significant (Table 55).
$\left.\begin{array}{|lclll|}\hline & \begin{array}{c}\text { TABLE 54. }\end{array} \\ & \text { DMFT - 13-year-olds } \\ \text { COMBINED DATA - SCTC and MCDP }\end{array}\right)$

| Table 55. DMFT <br> Chi-Square |  |  |
| :--- | :---: | :---: |
|  | Rural Native |  |
| 13-year-olds | Man. Rural '76 |  |
| Decayed + Missing | 575 | 734 |
| Filled | 1016 | 433 |

$$
x^{2}=193.265 \quad p<.0001 \quad \text { d.f. }=1
$$

There is a highly significant difference between the two groups. The " $D+M$ " components comprise approximately $36 \%$ of the DMFT for the rural Native group while for Manitoba ' 76 children the "D+M" components comprise approximately $63 \%$ of the DMFT.

## d. Summary - 13-year-olds

The 13-year-olds in this population compare favourably with rural Manitoba children in 1976. They have fewer decayed teeth needing treatment, and the restorations required are primarily one- and two-surface fillings. The average DMFT is slightly lower, with the number of untreated teeth slightly more than half that of the 1976 sample of rural Manitoba children, but the average number of restorations per child is higher.

However, the percentage of rural Native children who have lesions causing, or likely to cause, pain is almost three times as high as Manitoba rural children. Many of the one- and twosurface restorations required may, therefore, end up being two- and three-surface restorations.

## B. COMPARISON OF MANITOBA RURAL NATIVE CHILDREN TO MANITOBA URBAN WHITE CHILDREN

The data for rural Native children were compared to the "Dental Health Survey of Manitoba Children, 1976". This section compares Native rural children to urban Manitoba children 5 and 13 years of age.

## 1. 6-Year-olds

The data for 6-year-old rural Native children were compared to the data for 5-year-old Manitoba urban White children (1976) to see if there was a significant difference between the two populations.

## a. Conditions Needing Immediate Attention

A comparison is included in Table 56 showing the number of children in each population requiring immediate treatment. This table shows a significantly lower result for Manitoba 1976 urban 5-year-olds compared to rural Native children. According to the 1976 Manitoba survey, the percentages were lower for urban children for all three types of conditions and for all age groups, with the urban children aged nine years in the greatest need of treatment (Cageorge et al., 1978:49).

## Chi-Square Analysis

A Chi-Square analysis was done to see whether there was a significant difference in the number of children requiring immediate treatment between the two populations. The rural Native 6 -year-olds were compared to Manitoba 1976 urban 5 -year-olds. The total number of children was divided into those requiring immediate treatment for pain, and those who did not (Table 57).

| TABLE 56. IMMEDIATE TREATMENT NEEDS - 5-6-year-olds COMBINED DATA - SCTC and MCDP |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Rural Native $(N=245)$ |  | Man. Urban '76 $(\mathrm{N}=125)$ | \% |
| Existing pain or infection | 58 | 23.67 | 2 | 1.6 |
| Lesions likely to cause pain | 95 | 38.77 | 2 | 1.6 |
| Pulpally involved teeth | 82 | 33.47 | 3 | 2.4 |
| Other | 31 | 12.65 |  |  |
| Total children affected | 123 | 50.20 | 7 | 5.6 |


| Table 57. Immediate Treatment | Needs |  |
| :--- | :---: | :---: |
|  | Chi-Square |  |
| 5-6 year-olds | Rural Native | Man. Urban '76 |
| Immediate. Tx. | 123 | 7 |
| No immediate. Tx. | 122 | 118 |

$$
x^{2}=72.256 \quad \mathrm{p}<.0001 \quad \text { d.f. }=1
$$

There is a highly significant statistical difference between the immediate treatment needs of 5-6-year-olds in the two populations.

## b. Treatment Needs

The total number of one-, two-, three-, and more than three-surface restorations required, and the number of extractions required, for rural Native children was compared to Manitoba 1976 urban children aged 5 years (Table 58). Although these results are not truly comparable for permanent teeth, it is apparent that the rural Native population has a greater number of deciduous teeth requiring treatment and particularly those children with teeth requiring extensive restorations (crown, pulpotomy, etc.) or extractions.

For the rural Native population the total number of deciduous and permanent teeth included as requiring one- or two-surface restorations is 961 , and the number of teeth requiring more than a two-surface restoration is 394 (Table 58).

For Manitoba urban children the " d " sum was calculated from the mean values given in Table III-10 (Cageorge et al., 1978:58). These data do not include a category comparable to "BO". It is presumed that permanent teeth are included in the total given, because it does not equal the value for "d" given in Table III-9 which is 1.50 (Cageorge et al., 1978:57). The total DMFT is .07 , therefore it is presumed that the "D" component is .02 and the " $F$ " component is .05 , as it is highly unlikely that 5 -year-olds would have permanent teeth missing as a result of caries.

## Chi-Square Analysis

For rural Native children the Chi-Square cells the one-and two-surface decay for both deciduous (767) and permanent (194) were added together for a total of 961 . More than twosurface is 394 .

For the Manitoba 1976 urban children the one-and two-surface decay for both deciduous and permanent teeth (164) and the total for more than two-surface is 26 (Table 59).

| TABLE 58. DECAYED TEETH - 5-6-year-olds COMBINED DATA - SCTC and MCDP |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Rural Native ( $\mathrm{N}=245$ ) |  | Man. Urban '76$(\mathrm{N}=125)$ |  |  |
|  | Decid | Perm. | Mean | Total | Mean |
| Decayed - no treatment required | 211 | 0 | 0.86 |  |  |
| One-surface restoration required | 212 | 100 | 1.27 | 87 | 0.70 |
| Two-surface restoration required | 344 | 94 | 1.79 | 77 | 0.62 |
| Three-surface restoration required | 55 | 9 | 0.26 | 6 | 0.05 |
| >than three-surface or crown required | 218 | 8 | 0.92 | 7 | 0.06 |
| Extraction | 103 | 1 | 0.02 | 13 | 0.10 |
| TOTAL | 1143 | 212 | 5.12 | 190 | 1.52 |


\left.| Table 59. |  | Decayed Teeth |
| :--- | :---: | :---: |
|  | Chi-Square |  |$\right]$

$$
x^{2}=19.947 \quad \mathrm{p}<.0001 \quad \text { d.f. }=1
$$

There is a highly significant statistical difference between the two populations in the number of one-and two-surface restorations required. The rural Native population has an higher proportion (29.08\%) of children requiring more extensive restorations compared to Manitoba 1976 children (13.68\%)

A highly statistically significant difference was found between the two populations in the type of treatment required. Additional Chi Square testing was done to determine where the differences occurred. All possible combinations were found to be significant or highly significant, showing that the pattern of restorations required was quite different for all categories, but in particular the Rural Native children required considerably more extensive restorations and extractions than the Urban White children.

## c. deft/DMFT

The total number of decayed, missing and filled teeth has been calculated for the 6 -yearold groups. The sum of the decayed teeth was derived by adding together a total of more than 15 different codes (Table 60).

For rural Native children, the total deft comprises the sum of: the number of decayed teeth including "BO", plus the total number of decayed teeth, plus the total number of filled teeth were added together to comprise the deft $=7.65$. For Manitoba urban children the values are from Table III-9, 1976 (Cageorge et al., 1978)

For rural Native children, the total DMFT comprises the sum of all the codes for the "D" plus missing and filled DMFT $=.67$. For Manitoba urban children the "D" component equals 0.05 and the "F" component equals 0.02 , the total $\mathrm{DMFT}=.07$ (Table III-9, 1976).

## Chi-Square Analysis

For both rural Native and Manitoba 1976 urban children the decayed and missing deciduous teeth, including "BO", plus the decayed and missing permanent teeth, were compared to the filled component of the deft and DMFT (Table 61).

*The value for the mean number of decayed teeth in Manitoba rural children in Table 60 (1.52) differs from the "d" value of 1.50 given in Table III-10 (Cageorge et al., 1978:58). The reason for this discrepancy is presumed to be due to the presence of decayed permanent teeth which are included in Table III-10. The average numbers are considerably higher for the rural Native population for all three categories. The $\mathrm{d} / \mathrm{def}$ index shows, however, that the decayed component is a similar proportion of the total deft in both groups.

| Table 61. deft/DMFT <br> Chi-Square |  |  |
| :--- | ---: | ---: |
| 5-6-year-olds | Rural Native |  |
| Decayed (dD)+Missing (eM) | 1580 | 201 |
| Filled (fF) | 426 | 103 |

$$
x^{2}=23.909 \quad \mathrm{p}<.0001 \quad \text { d.f. }=1
$$

There is a highly significant statistical difference between the two groups with regard to the proportion of decayed and missing teeth ( $78 \%$ ) compared to the number of filled teeth ( $21 \%$ ) for rural Native children while for Manitoba urban children the proportion of decayed and missing teeth is less at $66 \%$. The main difference appears to be in the number of teeth missing due to caries in the rural Native group.

## d. Summary

In the rural Native 6-year-old group, the average number of decayed teeth requiring treatment is considerably higher than in the Manitoba 1976 urban sample, particularly for teeth needing extensive treatment (crown, pulpotomy, etc.). Decayed teeth requiring immediate treatment is also significantly higher. The 6 -year-olds have a much higher deft rate than urban Manitoba 5 -year-olds. The deft/DMFT is almost three times higher in the rural Native group compared to the Manitoba urban group. Although the "d" component is the same in the d/def ratio, the proportion of extensive restorations and extractions required is much greater, indicating that these children do not receive treatment until the teeth have been severely damaged.

## 2. 13-Year-olds

## a. Conditions Needing Immediate Attention

A comparison is included in Table 62 showing the number of children in each population requiring immediate treatment.

## Chi-Square Analysis

The rural Native 13-year-olds were compared to Manitoba 1976 urban 13-year-olds. The total number of children was divided into those requiring immediate treatment for pain, and those who did not.

A Chi-Square analysis was done to see whether there was a significant difference in the number of children requiring immediate treatment between the two populations.

| TABLE 62. IMMEDIATE TREATMENT NEEDS - 13-year-olds COMBINED DATA - SCTC and MCDP |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Rural Native $(\mathrm{N}=245)$ | \% | Man. Urban '76 $(\mathrm{N}=125)$ | \% |
| Existing pain or infection | 9 | 3.67 | 0 | 0.0 |
| Lesions likely to cause pain | 20 | 8.16 | 3 | 2.4 |
| Pulpally involved teeth | 4 | 1.63 | 0 | 0.0 |
| Other | 9 | 3.67 |  |  |
| Total children affected | 31 | 12.65 | 3 | 2.4 |


| Table 63. Immediate Treatment Needs |  |  |
| :---: | :---: | :---: |
|  | Chi-Square |  |
| 13-year-olds | Rural Native | Man. Urban '76 |
| Immediate $\mathrm{T}^{\text {x }}$. | 31 | 3 |
| No immediate Tx. | 214 | 122 |

$$
X^{2}=10.427 \quad p<.0012 \quad \text { d.f. }=1
$$

There is a highly significant statistical difference between the immediate treatment needs of 13-year-olds in the two populations. Over $12.6 \%$ of rural Native children require immediate treatment, while only $2.4 \%$ of White urban children require immediate treatment.

## b. Treatment Needs

The total number of one-, two-, three-, and more than three-surface restorations required, and the number of extractions required, has been calculated separately for each group (Table 64). The treatment needs of the 13 -year-old rural Native children are similar in almost all categories compared to the 1976 survey of Manitoba urban children. The average number of teeth requiring treatment for rural Native children is 2.2, while 2.15 teeth required treatment in Manitoba urban children in 1976.

## Chi-Square Analysis

The rural Native 13-year-olds were compared to Manitoba 1976 urban 13-year-olds. The total number of decayed teeth (treatment required) was divided into those teeth requiring one- or two-surface restorations, and those requiring more than a two-surface restoration.

A Chi-Square analysis was done to see whether there were significant differences in the types of treatment required between the two populations. No significant difference was found between the two groups in the number of one- and two-surface restorations required (Table 65).

Additional Chi Square testing was done to determine if there was a difference in any one type of restoration required. It was found that a highly significant difference in the number of onesurface restorations required was masked by the other categories. The Manitoba Urban children required significantly more one-surface restorations than the Rural Native children ( $X^{2}=16.99, p<$ .0001 , d.f. $=1$ ).

| TABLE 64. DECAYED TEETH - 13-year-olds COMBINED DATA - SCTC and MCDP |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Rural Native$(\mathrm{N}=245)$ |  | Man. Urban '76$(\mathrm{N}=125)$ |  |
|  | Total | Mean | Total | Mean |
| Decayed - no treatment required |  |  |  |  |
| One-surface restoration required | 317 | 1.29 | 198 | 1.58 |
| Two-surface restoration required | 180 | 0.73 | 55 | 0.44 |
| Three-surface restoration required | 24 | 0.10 | 4 | 0.03 |
| >than three-surface or crown required | 5 | 0.02 | 2 | 0.02 |
| Extraction required | 13 | 0.05 | 10 | 0.08 |
| TOTAL | 539 | 2.20 | 269 | 2.15 |


|  Table 65. Decayed Teeth <br> Chi-Square   |  |  |
| :--- | :---: | :---: |
|  |  |  |
| 13-year-olds | Rural Native | Man. Urban '76 |
| One-or two-surface | 497 | 253 |
| $>$ two-surface | 42 | 16 |

$X^{2}=0.916 \quad \mathrm{p}<.3385 \quad$ d.f. $=1$

There is a no significant statistical difference between the two populations in the type of treatment required. Rural Native children require slightly fewer one- or two-surface restorations ( $92.2 \%$ ) than Manitoba urban children ( $94.1 \%$ ). See the discussion in the text of further ChiSquare testing which showed that there were significant internal differences.

## c. DMFT

Rural Native children were compared to Manitoba '76 urban 13-year-old children. The "D" and " M " components were added together (no treatment and unsuccessful treatment) and compared to the "F" component (successful treatment).

The total number of decayed, missing and filled teeth has been calculated for each group separately. The sum of the decayed teeth was derived by adding together a total of more than 15 different codes for each age group (Table 66). The D/DMF index shows that, because the rural Native population has an average of more restorations per child, the number of decayed (unrestored) teeth contributes less to the total DMFT than it does in the sample of urban Manitoba children.

## Chi-Square Analysis

The rural Native population was compared to Manitoba 1976 urban 13-year-old children. The " D " and " M " components were added together (no treatment and unsuccessful treatment), and compared to the "F" component (successful treatment) (Table 67). The difference between the two groups is highly significant.

| TABLE 66. DMFT - 13-year-olds COMBINED DATA - SCTC and MCDP |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Rural Native$(\mathrm{N}=245)$ |  | Man. Urban '76$(\mathrm{N}=125)$ |  |
|  | Total | Mean | Total | Mean |
| Number of decayed teeth (D) | 539 | 2.20 | 259 | *2.07 |
| Number of missing teeth (M) | 36 | 0.15 | 11 | 0.09 |
| Number of filled teeth (F) | 1016 | 4.15 | 296 | 2.37 |
| DMFT | 1591 | 6.49 | 566 | 4.53 |
| D/DMF Index |  | 0.34 |  | 0.46 |

*The value for the mean number of decayed teeth in Manitoba urban children in Table 66 (2.07) differs from the "treatment required" value of 2.15 given in Table III-10. (Cageorge et al., 1978:58). The reason for this discrepancy is that the "D" value in Table III-9 does not include those teeth requiring extraction (.08). No explanation was given for omitting this category in the 1976 Manitoba survey, but it is presumed that they are retained deciduous teeth requiring extraction, and therefore are not included in the DMFT.

|  | Table 67. DMFT <br> Chi-Square |
| :--- | :---: | :---: |
| 13-year-olds | Rural Native Man. Urban '76 |

$$
x^{2}=23.423 \quad p<.0001 \quad \text { d.f. }=1
$$

There is a highly significant statistical difference between the two groups. The "D+M" components comprise approximately $36 \%$ of the DMFT for the rural Native group while for Manitoba '76 urban children the "D+M" components comprise approximately $48 \%$ of the DMFT.

## d. Summary - 13-year-olds

The Rural Native 13-year-olds in this population compare favourably with urban Manitoba children in 1976. They have proportionally the same number of decayed teeth needing treatment, and the restorations required are primarily one- and two-surface fillings. The Manitoba Urban children require significantly more one-surface restorations than the Rural Native children, and fewer extensive restorations and extractions. The average DMFT is higher for Rural Native children, but the proportion of untreated teeth is only slightly higher than that of the 1976 sample of Urban Manitoba children. The major difference is that the average number of restorations per child is much higher.

However, the percentage of Rural Native children who have lesions causing, or likely to cause, pain is almost five times as high as Manitoba Urban children. Many of the one- and twosurface restorations required may, therefore, end up being two- and three-surface restorations.

## C. COMPARISON OF MANITOBA URBAN CHILDREN TO MANITOBA RURAL WHITE CHILDREN

All data were obtained from the "Dental Health Survey of Manitoba Children, 1976", for children 5 and 13 years of age (Cageorge et al., 1978).

## 1. 5-Year-olds

The data for Manitoba 5 -year-old urban children were compared to the data for 5-year-old Manitoba rural White children (1976) to see if there was a significant difference between the two populations.

## a. Conditions Needing Immediate Attention

A comparison is included in Table 68 showing the number of children in each population requiring immediate treatment. This table shows a significantly lower result for Manitoba 1976 urban 5-year-olds compared to rural children. According to the 1976 Manitoba survey, the percentages were higher for rural children for all three types of conditions and for all age groups, with the rural children aged nine years in the greatest need of treatment (Cageorge et al., 1978:49).

A Chi-Square analysis was done to see whether there was a significant difference in the number of children requiring immediate treatment between the two populations. The urban 5-year-olds were compared to rural 5 -year-olds. The total number of children was divided into those requiring immediate treatment for pain, and those who did not.

|  | Man. Urban '76 $(\mathrm{N}=125)$ |  | Man. Rural '76 $(\mathrm{N}=175)$ | \% |
| :---: | :---: | :---: | :---: | :---: |
| Existing pain or infection | 2 | 1.6 | 7 | 4.0 |
| Lesions likely to cause pain | 2 | 1.6 | 5 | 2.8 |
| Pulpally involved teeth | 3 | 2.4 | 18 | 10.2 |
| Other |  |  |  |  |
| Total children affected | 7 | 5.6 | 30 | 17.0 |


| Table 69. | Immediate Treatment Needs Chi-Square |  |
| :---: | :---: | :---: |
|  | Man. Urban '76 | Man. Rural '76 |
| Immediate Tx. | 7 | 30 |
| No immediate Tx. | 118 | 145 |

$$
X^{2}=8.985 \quad \mathrm{p}<.0027 \quad \text { d.f. }=1
$$

There is a highly significant statistical difference between the immediate treatment needs of 5 -year-olds in the two populations. More than three times as many rural children require immediate treatment (17.1\%) as compared to urban children (5.6\%).

## b. Treatment Needs

The total number of one-, two-, three-, and more than three-surface restorations required, and the number of extractions required, for urban children was compared to rural children aged 5 years (Table 70). The rural population has a greater number of deciduous teeth requiring treatment and particularly those children with teeth requiring extensive restorations (crown, pulpotomy, etc.) or extractions.

For Manitoba urban and rural children the "d" sum was calculated from the mean values given in Table III-10 (Cageorge et al., 1978:58). It is presumed that permanent teeth are included in the total given, because the total does not equal the values given in Table III-9 (Cageorge et al., 1978:57).

## Chi-Square Analysis

For Manitoba Rural children the Chi-Square cells for one-and two-surface decay for both deciduous and permanent is 478 and the total for more than two-surface is 91 . For Manitoba Urban children the cells are 164 and 26 respectively.

There were no statistically significant differences in the type of restorations required by the two groups, although the Manitoba Rural children required more than twice as many restorations as the Urban children. Additional Chi Square testing showed no statistically significant differences between any one type of restoration required or in the number of extractions required.

| TABLE 70. DECAYED TEETH - 5-year-olds |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Man. Urban '76 |  | Man. Rural '76 |  |
|  | ( $\mathrm{N}=125$ ) | ( $\mathrm{N}=175$ ) |  |  |
|  | Total | Mean | Total | Mean |
| Decayed - no treatment |  |  |  |  |
| One-surface restoration | 87 | 0.70 | 270 | 1.54 |
| Two-surface restoration | 77 | 0.62 | 208 | 1.19 |
| Three-surface restoration | 6 | 0.05 | 32 | 0.18 |
| >than three-surface or crown | 7 | 0.06 | 26 | 0.15 |
| Extraction | 13 | 0.10 | 33 | 0.19 |
| TOTAL |  | 190 | 1.52 | 569 |
| 3.25 |  |  |  |  |



$$
x^{2}=.582 \quad p<.4454 \quad \text { d.f. }=1
$$

There is no significant statistical difference between the two populations. Both populations have an equal proportion of children requiring simple and more extensive restorations. See the discussion in the text of further Chi-Square testing which showed that there were also no significant internal differences.

## c. deft/DMFT

The total number of decayed, missing and filled teeth has been calculated for the two 5-year-old groups. For Manitoba urban and rural children the mean values in Table III-9, 1976 were added together to comprise the total deft and DMFT.

The average "dD" value is considerably higher for the rural population for the decayed category. The d/def index shows also that the decayed component is a smaller proportion of the total in the urban population, while the number of missing (due to caries) and filled teeth comprise a much larger proportion of the total deft.

## Chi-Square Analysis

For both urban and rural children the decayed and missing deciduous teeth, plus the decayed and missing permanent teeth, were compared to the filled component of the deft and DMFT.

## d. Summary

More than three times as many Manitoba Rural children have lesions requiring immediate treatment than the Manitoba Urban sample, primarily for pulpally involved teeth.

In the urban 5-year-old group, the average number of decayed teeth requiring treatment is considerably lower in all categories than in the rural sample, particularly for teeth needing extensive treatment (crown, pulpotomy, etc.). The urban 5 -year-olds have a much lower deft rate than rural Manitoba 5 -year-olds. Although the "d" component is smaller in the $\mathrm{d} / \mathrm{def}$ ratio, the proportion of filled teeth is much greater, indicating that these children receive dental treatment more frequently than the rural children. Not only do the urban children have a lower rate of decay but their treatment needs have been met to a much greater extent than the rural children.

| TABLE 72. deft/DMFT - 5-year-olds |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Man. Urban '76$(N=125)$ |  | Man. Rural '76$(\mathrm{N}=175)$ |  |
|  | Total | Mean | Mean | Total |
| Number of decayed teeth | 190 | 1.52 | 569 | 3.25 |
| Number of missing teeth | 11 | 0.09 | 16 | 0.09 |
| Number of filled teeth | 102 | 0.82 | 177 | 0.95 |
|  | 304 |  | 762 |  |
| deft/DMFT |  | 2.45 |  | 4.35 |
| d/def Index |  | 0.63 |  | 0.75 |


| Table 73. deft/DMFT |  |  |
| :---: | :---: | :---: |
| Chi-Square |  |  |
| 5-year-olds $\quad$ M | Man. Urban '76 | Man. Rural ' 76 |
| Decayed (dD) + Missing (eM) | M) 201 | 585 |
| Filled (fF) | 103 | 177 |

$$
x^{2}=12.734 \quad p<.0004 \quad \text { d.f. }=1
$$

There is a highly significant statistical difference between the two groups with regard to the proportion of decayed and missing teeth, urban ( $66.1 \%$ )/rural ( $76.8 \%$ ) compared to the number of filled teeth urban (33.9\%)/rural (23.2\%).
2. 13-Year-olds

## a. Conditions Needing Immediate Attention

A comparison is included in Table 74 showing the number of children in each population requiring immediate treatment. Both groups of 13 -year-olds have very few children requiring immediate treatment, and only one Rural Manitoba child was found to have existing pain or infection.

## Chi-Square Analysis

The urban 13 -year-olds were compared to rural 13 -years-olds. The total number of children was divided into those requiring immediate treatment for pain, and those who did not.

A Chi-Square analysis was done to see whether there was a significant difference in the number of children requiring immediate treatment between the two populations.

## b. Treatment Needs

The total number of one-, two-, three-, and more than three-surface restorations required, and the number of extractions required, has been calculated separately for each group (Table 76). The treatment needs of the 13 -year-old urban children are lower in all categories compared to the 1976 survey of Manitoba rural children. The average number of teeth requiring treatment for urban children is 2.15, while 4.11 teeth required treatment in Manitoba rural children in 1976.

## Chi-Square Analysis

A Chi-Square analysis was done to see whether there were significant differences in the types of treatment required between the two populations.

|  | Man. Urban '76 $(\mathrm{N}=125)$ | \% | Man. Rural '76 $(\mathrm{N}=175)$ | \% |
| :---: | :---: | :---: | :---: | :---: |
| Existing pain or infection | 0 | 0.0 | 1 | 0.6 |
| Lesions likely to cause pain | 3 | 2.4 | 9 | 5.1 |
| Pulpally involved teeth <br> Other | 0 | 0.0 | 0 | 0.0 |
| Total children affected | 3 | 2.4 | 10 | 5.7 |


| Table 75. Immediate Treatment | Needs |  |
| :--- | :---: | :---: |
| Chi-Square |  |  |
| 13-year-olds | Man. Urban '76 | Man. Rural '76 |
| Immediate Tx. | 3 | 10 |
| No immediate Tx. | 122 | 165 |

$$
X^{2}=1.932 \quad p<.1645 \quad \text { d.f. }=1
$$

There is no significant statistical difference between the immediate treatment needs of 13-year-olds in the two populations. On average approximately $2.4 \%$ of the urban children require immediate treatment, while $5.7 \%$ of Rural children require immediate treatment.

The urban 13-year-olds were compared to rural 13-year-olds. The total number of decayed teeth (treatment required) was divided into those teeth requiring one-and two-surface restorations, and those requiring more than a two-surface restorations (Table 75).

A highly significant difference was found between the two populations in the type of treatment required. Additional Chi Square testing was done to determine where the major difference occurred. It was found that when one-surface restorations were excluded, and when both one- and two-surface restorations were excluded, there was no significant difference between the two groups. When the number of two-surface restorations required was excluded, the significant difference between the groups remained. The major difference between the two groups was, therefore, found to be primarily in the difference between the number of one-surface restorations required.

## c. DMFT

Urban 13 -year-old children were compared to rural 13 -year-old children. The " D " and " M " components were added together (no treatment and unsuccessful treatment) and compared to the "F" component (successful treatment).

The total number of decayed, missing and filled teeth has been calculated for each group separately. The D/DMF index shows that, because the urban population has an average of fewer decayed teeth per child, the number of decayed (unrestored) teeth contributes less to the total DMFT than it does in the sample of rural Manitoba children.

## Chi-Square Analysis

The urban 13 -year-olds were compared to rural 13 -year-old children. The " D " and " M " components were added together (no treatment and unsuccessful treatment), and compared to the "F" component (successful treatment).

|  | Total | Mean | Total | Mean |
| :---: | :---: | :---: | :---: | :---: |
| Decayed - no treatment required |  |  |  |  |
| One-surface restoration required | 198 | 1.58 | 422 | 2.41 |
| Two-surface restoration required | 55 | 0.44 | 194 | 1.11 |
| Three-surface restoration required | 4 | 0.03 | 33 | 0.19 |
| >than three-surface or crown required | 2 | 0.02 | 5 | 0.03 |
| Extraction required | 10 | 0.08 | 65 | 0.37 |
| TOTAL | 269 | 2.15 | 719 | 4.11 |


| 13-year-olds | Table 77. Decayed Teeth Chi-Square |  |
| :---: | :---: | :---: |
|  |  |  |
|  | Man. Urban '76 | Man. Rural '76 |
| 1-2 surface | 253 | 616 |
| >two-surface | 16 | 103 |

$$
x^{2}=12.969 \quad p<.0003 \quad \text { d.f. }=1
$$

There is a highly significant statistical difference between the two populations in the type of treatment required. Both groups of children require more simple restor-ations than require more extensive restorations, but the urban children require a higher proportion of simple restorations (94.1\%) than do rural children ( $85.7 \%$ ). See the discussion in the text of further ChiSquare testing which showed that there were significant internal differences.

TABLE 78. DMFT - 13-year-olds

| TABLE 78. DMFT - 13-year-olds |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Man.: Urban '76 ( $\mathrm{N}=125$ ) |  | Man. Rural '76 ( $\mathrm{N}=175$ ) |  |
|  | Total | Mean | Total | Mean |
| Number of decayed teeth | 259 | *2.07 | 674 | *3.85 |
| Number of missing teeth | 11 | 0.09 | 60 | 0.34 |
| Number of filled teeth | 296 | 2.37 | 433 | 2.47 |
| DMFT | 566 | 4.53 | 1167 | 6.67 |
| D/DMF Index |  | 0.46 |  | 0.58 |


|  Table 79. DMFT <br> Chi-Square  |  |  |
| :--- | :---: | :---: |
|  | Man. Urban '76 | Man. Rural '76 |
| 13-year-olds | 270 | 734 |
| Decayed + Missing | 296 | 433 |
| Filled |  |  |

$$
x^{2}=36.101 \quad \mathrm{p}<.0001 \quad \text { d.f. }=1
$$

There is a highly significant statistical difference between the two groups. The "D+M" components comprise approximately $47 \%$ of the DMFT for the urban group while for rural children the "D+M" components comprise approximately $63 \%$ of the DMFT.

## d. Summary - 13-year-olds

The urban 13-year-olds in this population compare favourably with rural Manitoba children in 1976. The percentage of urban children who have lesions causing, or likely to cause, pain is also less than half as high as Manitoba rural children but this difference was not statistically significant. The urban children have almost half as many decayed teeth needing treatment, and the restorations required are primarily one- and two-surface fillings. This difference was found to be highly statistically significant. The average DMFT is lower, with the number of untreated teeth slightly more than half that of the sample of rural Manitoba children, but the average number of restorations per child is very similar. This difference was also found to be highly statistically significant.

## CHAPTER 5 DISCUSSION

## CHAPTER V. DISCUSSION

This chapter summarizes the results of the analysis done in Chapter IV, and compares the dental health status of the three groups; Rural Native, Rural White and Urban White, for both 6-year-olds and 13 -year-olds. For each of the Chi-Square tests the groups are compared and ranked in an attempt to draw conclusions regarding the most severely affected group.

## A. COMPARISON OF ALL THREE GROUPS

## 1. 5-6-year-Olds

Table 80 summarizes the statistical significance of the Chi Square results from Chapter IV for 6-year-olds.
a. Immediate Treatment Required.

Both the Urban and Rural White groups differ significantly from the Rural Native group in that a much smaller percentage of both groups are in need of immediate treatment. In the Rural Native group $50.2 \%$ of the children are in need of immediate treatment. In the Rural White group $17.0 \%$ of the children are in need of immediate treatment, while only $5.6 \%$ of Urban White children are in need of immediate treatment.

## b. One- or two-surface Decay

The results for Urban and Rural Whites indicate that both groups are similar in requiring more one-surface restorations than extensive restorations ( $46 \%$ and $47 \%$ respectively). The results comparing the Rural Native group to both the White groups indicate that the Native group has significantly more decayed teeth than either White group, and requires significantly more extensive restorations (69.2\%) than one-surface restorations.

| TABLE 80. 6-year-olds |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Rural Native/ Rural White | Rural Native/ <br> Urban White | Urban White/ Rural White |
| Immediate Treatment | . 0001 ** | . 0001 ** | . 0027 ** |
| 1-2 surface Decay | . 0001 ** | . 0001 ** | . 4454 |
| deft/DMFT | . 2568 | . 0001 ** | . 0004 ** |
| * $\mathrm{p}<$. 05 | ** $\mathrm{p}<.01$ |  |  |

c. deft/DMFT

If the deft or DMFT is compared for each group, the order from highest to lowest would be as follows:

| Rural Native 6-year-olds | def+DMF | $7.25+0.94$ | $(2006 / 245)$ |
| :--- | :--- | :--- | ---: |
| Rural White 6-year-olds | def+DMF | $4.35+1.25$ | $(980 / 175)$ |
| Urban White 6-year-olds | def+DMF | $2.45+0.73$ | $(398 / 125)$ |

The results for Rural Native and Urban White indicate that they are similar in the proportion of the deft/DMFT that is comprised of decayed (dD) and missing (eM) teeth. The Rural White group differs significantly from the Rural Native and Urban White groups in that a smaller proportion of the deft/DMFT is comprised of filled (fF) teeth, that is, less of this group's treatment needs have been met.

For 6-year-olds, the Rural Native group has the greatest number of children in need of immediate treatment, has significantly more decay, and requires more extensive restorations than either White group. They also have the greatest deft/DMFT (8.18). and the greatest proportion of missing teeth. There is very little difference between the other two groups.

## 2. 13-year-olds

Table 81 summarizes the statistical significance of the Chi Square results from Chapter IV for 13-year-olds.

| TABLE 81. 13-year-olds |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Rural Native/ <br> Rural White | Rural Native/ Urban White | Urban White/ Rural White |
| Immediate Treatment | . 0182 * | . 0012 ** | . 1645 |
| 1-2 surface Decay | . 0003 ** | . 3385 | . 0003 ** |
| deft/DMFT | . 0001 ** | . 0001 ** | . 0001 ** |
| ${ }^{*} \mathrm{p}<.05$ | ${ }^{* *} \mathrm{p}<.01$ |  |  |

a. Immediate Treatment Required.

Both the Urban and Rural White groups differ significantly from the Rural Native group in that a much smaller percentage of both groups are in need of immediate treatment (Tables 50, 62 and 74). In the Rural Native group $12.6 \%$ of the children are in need of immediate treatment. In the Rural White group 5.7\% of the children are in need of immediate treatment, while only $2.4 \%$ of Urban White children are in need of immediate treatment.
b. One- or two-surface Decay

The results for the Rural Native group and the Urban White group indicate that both groups are similar in requiring more one-and two-surface restorations than extensive restorations ( $6-8 \%$ ), and that both groups require fewer extensive restorations than the Rural White group (14\%). The results comparing the Rural Native group to both the White groups indicate that the Native group ( $D=2.20$ ) has significantly fewer decayed teeth than the Rural White group ( $D=4.11$ ) and is more similar to the Urban White group ( $D=2.15$ ).
c. DMFT

If the DMFT is compared for each group, the order from highest to lowest would be as follows:

| Rural White 13-year-olds | DMF | 6.67 | $(1167 / 175)$ |
| :--- | :--- | :--- | :--- |
| Rural Native 13-year-olds | DMF | 6.49 | $(1591 / 245)$ |
| Urban White 13-year-olds | DMF | 4.53 | $(566 / 125)$ |

The results for Rural Native and Rural White children indicate that they are very different in the proportion of the DMFT that is comprised of decayed (D) and missing (M) teeth. Both groups
have a significantly higher DMFT (6.49-6.67), however, than the Urban White group (4.53). The Rural Native (64\%) and Urban White (53\%) groups differ significantly from the Rural White group $(37 \%)$ in that a larger proportion of the DMFT is comprised of filled (fF) teeth, that is, more of these groups treatment needs have been met.

The Rural Native group has the highest percentage of 13 -year-old children requiring immediate treatment, however, and, along with the Rural White group, has a significantly higher DMFT than the Urban White group. The Rural White group requires significantly more extensive restorations than either the Rural Native or Urban White group. The fact that the Rural Native group has a much higher proportion of children requiring immediate treatment may mean that many teeth that are decayed will require larger restorations or more than the one- or two-surface restoration which was originally planned.

For 13-year-olds, there is a greater difference between the Rural White children and the other two groups than between Rural Native and Urban White children. The Urban White group have the smallest number of children requiring immediate treatment, requires the smallest percentage of extensive restorations and has the smallest average deft/DMFT (2.45). They also have the largest proportion of their treatment needs met (37\%).

## 3. Indices

The most commonly used index used to indicate unmet treatment needs of a population is the proportion of decayed teeth divided by the total number of decayed, missing and filled teeth (D/DMF or d/def). For Manitoba 1976 children the DMFT for 6 -year-olds was not broken down to indicate what proportion were decayed, missing or filled. For this reason only the def was considered for each group of 6 -year-olds. If this index is used for each group, the order of greatest need to least need would be as follows:

| Rural White 6-year-olds | d/def | .75 | (569/762) |
| :--- | :--- | :--- | ---: |
| Rural Native 6-year-olds | d/def | .64 | $(1143 / 1775)$ |
| Urban White 6-year-olds | d/def | .63 | $(190 / 304)$ |
| Rural White 13-year-olds | D/DMF | .58 | $(674 / 1167)$ |
| Urban White 13-year-olds | D/DMF | .46 | $(259 / 566)$ |
| Rural Native 13-year-olds | D/DMF | .34 | $(539 / 1591)$ |

The Rural White 6 -year-old children have a much smaller def/DMF (5.60) than the Rural Native 6-year-old children (8.18), but have the highest ratio of decayed teeth. The Urban White 6-year-old children have the lowest d/def ratio and the lowest def/DMF (3.25). Similarly, the Urban White 13-year-old children have the lowest DMFT (4.53) but have a D/DMF index which is in between the Rural White 13-year-old children (DMFT=6.67) and the Rural Native 13-year-old children (DMFT=6.49)

Because of the relatively high number of teeth missing due to caries in most of these groups, the proportion of decayed and missing teeth divided by the total number of decayed, missing and filled teeth (DM/DMF or de/def) was felt to be a better indication of the true unmet treatment needs and was therefore also looked at for each group. The order of greatest need to least need would be as follows:

| Rural White 6-year-olds | dm/def | .78 | $(579+16 / 762)$ |
| :--- | :--- | :--- | ---: |
| Rural Native 6-year-olds | dm/def | .77 | $(1143+225 / 1775)$ |
| Urban White 6-year-olds | dm/def | .66 | $(190+11 / 304)$ |
| Rural White 13-year-olds | DM/DMF | .63 | $(674+60 / 1167)$ |
| Urban White 13-year-olds | DM/DMF | .48 | $(259+11 / 566)$ |
| Rural Native 13-year-olds | DM/DMF | .36 | $(539+36 / 1591)$ |

The results are identical in sequence to looking at the number of decayed teeth only. The increase in the percentage is fairly minimal (. 02 to .05 ) for all groups except the rural Native 6 -yearolds who have the highest proportion of primary teeth missing due to caries (.13).

## B. CONCLUSIONS

In general, the results of this study indicate that: first, in most measures of dental health status, there is a significant difference in the quality of dental health of Manitoba children at six and thirteen years of age, that follows a rural-urban, as well as a Native-White distribution. Specifically, when Rural Native children are compared to Rural White children, their treatment needs are significantly greater for 6 -year-olds, but are similar for 13 -year-olds. The dental health of urban White children is significantly better than that of rural Native and White children for both age groups.

Second, holding constant the status of their dental health, there is a clear urban-rural dichotomy in the extent to which the treatment needs of Manitoba children are being met. The rural White children are only slightly better off than the rural Native children, and both are significantly worse off that are urban White children. There is more of a difference in the 6 -yearolds between the urban and rural White children than there is for 13 -year-olds. These results are consistent with the results of previous studies in which Native and rural children had significantly greater caries rates and fewer of their treatment needs were met, especially for younger children, 5-6 years of age (McPhail et al., 1972; Titley \& Mayhall, 1976; Titley and Bedard, 1986; Shaw et al., 1987; Klooz, 1988; Jones and Schlife, 1990).

Several authors attribute the higher caries rates among Native people to dramatic changes in their diet, from a low sucrose "traditional" diet to a high sucrose "modern" diet (McPhail et al., 1972; Hargreaves \& Titley, 1973; Curzon \& Curzon, 1979). The morphology of the Inuit and Indian dentition (Mayhall, 1972, 1976) is also a factor in plaque retention and, thus, a high caries
rate. Cultural factors, such as differing attitudes toward dental health, also do have an effect (Mayhall \& Stamm, 1984), but the problem is more complex than simply one of ethnic neglect.

This study has not attempted to explain all the causal factors associated with the high caries rate found among Native children. It is clear that differences do exist and that much additional work is required to fully explain which factors are the most important.

The implications of this research are that perhaps population distribution is an important parameter of the framework of evaluation of the delivery of dental health care, and perhaps health care in general, at least within Canada, a country in which the rural population is, for the most part, far more removed from the urban centres than is true of virtually any other country. Most of us presume that the general health status of Canadian Indians and Inuit is well below that of the predominantly White population, and that this is part of the overall pattern of neglect that has been accorded historically to Indian and Inuit people. What may no be so clear is the extent to which simple remoteness from urban centres of treatment may be an equally important variable. Certainly, there is evident need to improve the standards of health care for Canada's Native peoples, but this need should be assessed within the broader context of an urban-rural framework, rather than as simply one of ethnic neglect.

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## APPENDIX A

## Data Recording Sheets

## I. GENERAL INFORMATION ${ }^{\prime}$

Note 1 No codes to be changed 2 Unused sections to be cancelled by diagonal lines

III. DISORDERS OF MUCOSA TEETH AND BONE AND OTHER CONDITIONS



## APPENDIX B

Original Data
SCTC - 6-Year-olds

| No. | Reserve | Sex | D.0.B. | Init. Exam | Init. Age | 34 | Specify | Treatment | 35 |
| :---: | :---: | :---: | ---: | ---: | :---: | :---: | :---: | :---: | :---: |
| 1 | ML | 2 | $5 / 8 / 82$ | $4 / 27 / 88$ | 5.9713 |  |  |  |  |
| 2 | ML | 2 | $4 / 16 / 82$ | $4 / 27 / 88$ | 6.0315 | 2 | gingivitis | preventive | 1 |
| 3 | ML | 2 | $1 / 28 / 82$ | $4 / 27 / 88$ | 6.2450 |  |  |  |  |
| 12 | TP | 2 | $10 / 13 / 81$ | $4 / 29 / 88$ | 6.5435 |  |  |  |  |
| 13 | TP | 2 | $7 / 31 / 81$ | $4 / 29 / 88$ | 6.7461 |  |  |  |  |
| 14 | TP | 2 | $8 / 26 / 81$ | $4 / 29 / 88$ | 6.6749 |  |  |  |  |
| 15 | TP | 2 | $7 / 3 / 81$ | $4 / 29 / 88$ | 6.8227 |  |  |  |  |
| 16 | TP | 1 | $1 / 5 / 82$ | $4 / 29 / 88$ | 6.3135 |  |  |  |  |
| 17 | TP | 1 | $11 / 5 / 81$ | $4 / 29 / 88$ | 6.4805 |  |  |  |  |
| 18 | TP | 2 | $9 / 3 / 81$ | $4 / 29 / 88$ | 6.6530 |  |  |  |  |
| 19 | TP | 2 | $10 / 9 / 81$ | $4 / 29 / 88$ | 6.5544 |  |  |  |  |
| 20 | TP | 2 | $6 / 16 / 81$ | $4 / 29 / 88$ | 6.8693 |  |  |  |  |
| 21 | TP | 2 | $9 / 23 / 81$ | $4 / 29 / 88$ | 6.5982 |  |  |  |  |
| 24 | TP | 2 | $1 / 7 / 82$ | $5 / 2 / 88$ | 6.3162 |  |  |  |  |
| 25 | TP | 2 | $1 / 15 / 82$ | $5 / 2 / 88$ | 6.2943 |  |  |  |  |
| 28 | TP | 2 | $2 / 25 / 82$ | $5 / 2 / 88$ | 6.1821 |  |  |  |  |
| 29 | TP | 2 | $2 / 25 / 82$ | $5 / 2 / 88$ | 6.1821 |  |  |  |  |
| 30 | TP | 1 | $1 / 30 / 82$ | $5 / 2 / 88$ | 6.2533 |  |  |  |  |
| 31 | TP | 2 | $2 / 1 / 82$ | $5 / 2 / 88$ | 6.2478 |  |  |  |  |
| 32 | TP | 1 | $3 / 9 / 82$ | $5 / 2 / 88$ | 6.1492 |  |  |  |  |
| 33 | TP | 1 | $2 / 15 / 82$ | $5 / 2 / 88$ | 6.2094 |  |  |  |  |
| 34 | TP | 1 | $2 / 4 / 82$ | $5 / 2 / 88$ | 6.2396 |  |  |  |  |
| 35 | TP | 2 | $3 / 18 / 82$ | $5 / 2 / 88$ | 6.1246 |  |  |  |  |
| 36 | TP | 2 | $5 / 31 / 82$ | $5 / 2 / 88$ | 5.9220 |  |  |  |  |
| 37 | TP | 2 | $5 / 30 / 82$ | $5 / 2 / 88$ | 5.9247 |  |  |  |  |
| 38 | TP | 1 | $2 / 23 / 82$ | $5 / 2 / 88$ | 6.1875 |  |  |  |  |
| 41 | TP | 2 | $5 / 9 / 82$ | $5 / 2 / 88$ | 5.9822 |  |  |  |  |
| 43 | TP | 2 | $3 / 28 / 82$ | $5 / 2 / 88$ | 6.0972 |  |  |  |  |


| No. | Reserve | Sex | D.0.B. | Init. Exam | Init. Age | 34 | Specify | Treatment | 35 |
| :---: | :---: | :---: | ---: | ---: | :--- | :--- | :--- | :--- | :--- |
| 44 | TP | 1 | $3 / 15 / 82$ | $5 / 3 / 88$ | 6.1355 |  |  |  |  |
| 45 | TP | 1 | $12 / 24 / 81$ | $5 / 3 / 88$ | 6.3573 |  |  |  |  |
| 46 | ML | 1 | $3 / 9 / 82$ | $5 / 4 / 88$ | 6.1547 |  |  |  |  |
| 47 | ML | 1 | $5 / 12 / 82$ | $5 / 4 / 88$ | 5.9795 |  |  |  |  |
| 48 | ML | 1 | $3 / 15 / 82$ | $5 / 4 / 88$ | 6.1383 |  |  |  |  |
| 49 | ML | 1 | $1 / 22 / 82$ | $5 / 4 / 88$ | 6.2806 |  |  |  |  |
| 50 | ML | 1 | $2 / 20 / 82$ | $5 / 4 / 88$ | 6.2012 |  |  |  |  |
| 51 | ML | 1 | $10 / 3 / 81$ | $5 / 4 / 88$ | 6.5845 |  |  |  |  |
| 52 | ML | 2 | $9 / 10 / 81$ | $5 / 4 / 88$ | 6.6475 |  |  |  |  |
| 53 | ML | 2 | $9 / 25 / 81$ | $5 / 4 / 88$ | 6.6064 |  |  |  |  |
| 54 | ML | 1 | $2 / 2 / 82$ | $5 / 4 / 88$ | 6.2505 |  |  |  |  |
| 55 | ML | 1 | $10 / 2 / 81$ | $5 / 4 / 88$ | 6.5873 |  |  |  |  |
| 64 | ML | 1 | $8 / 10 / 81$ | $5 / 4 / 88$ | 6.7324 |  |  |  |  |
| 65 | ML | 1 | $4 / 12 / 82$ | $5 / 4 / 88$ | 6.0616 |  |  |  |  |
| 82 | EV | 2 | $7 / 22 / 81$ | $5 / 9 / 88$ | 6.7981 |  |  |  |  |
| 83 | EV | 1 | $7 / 28 / 81$ | $5 / 9 / 88$ | 6.7817 |  |  |  |  |
| 84 | EV | 1 | $11 / 10 / 81$ | $5 / 9 / 88$ | 6.4942 |  |  |  |  |
| 85 | EV | 2 | $7 / 15 / 81$ | $5 / 9 / 88$ | 6.8172 |  |  |  |  |
| 86 | EV | 1 | $8 / 18 / 81$ | $5 / 9 / 88$ | 6.7242 |  |  |  |  |
| 94 | EV | 1 | $3 / 16 / 82$ | $5 / 10 / 88$ | 6.1520 |  |  |  |  |
| 95 | EV | 1 | $5 / 30 / 82$ | $5 / 10 / 88$ | 5.9466 |  |  |  |  |
| 96 | EV | 1 | $12 / 26 / 81$ | $5 / 10 / 88$ | 6.3710 |  |  |  |  |
| 98 | EV | 2 | $7 / 12 / 81$ | $5 / 10 / 88$ | 6.8282 |  |  |  |  |
| 99 | EV | 2 | $9 / 24 / 81$ | $5 / 10 / 88$ | 6.6256 |  |  |  |  |
| 100 | EV | 1 | $1 / 29 / 82$ | $5 / 10 / 88$ | 6.2779 |  |  |  |  |
| 101 | EV | 1 | $11 / 15 / 81$ | $5 / 10 / 88$ | 6.4832 |  |  |  |  |
| 102 | EV | 2 | $3 / 14 / 82$ | $5 / 10 / 88$ | 6.1574 |  |  |  |  |
| 103 | EV | 2 | $10 / 4 / 81$ | $5 / 10 / 88$ | 6.5982 |  |  |  |  |


| No. | Reserve | Sex | D.0.B. | Init. Exam | Init. Age | 34 | Specify | Treatment | 35 |
| :---: | :---: | :---: | ---: | ---: | :--- | :--- | :--- | :--- | :--- |
| 109 | EV | 2 | $5 / 12 / 82$ | $5 / 10 / 88$ | 5.9959 |  |  |  |  |
| 112 | GR | 2 | $8 / 17 / 81$ | $5 / 11 / 88$ | 6.7324 |  |  |  |  |
| 113 | GR | 2 | $6 / 30 / 81$ | $5 / 11 / 88$ | 6.8638 |  |  |  |  |
| 114 | GR | 2 | $8 / 11 / 81$ | $5 / 11 / 88$ | 6.7488 |  |  |  |  |
| 115 | GR | 1 | $9 / 29 / 81$ | $5 / 11 / 88$ | 6.6146 |  |  |  |  |
| 116 | GR | 2 | $10 / 24 / 81$ | $5 / 11 / 88$ | 6.5462 |  |  |  |  |
| 117 | GR | 2 | $11 / 5 / 81$ | $5 / 11 / 88$ | 6.5133 |  |  |  |  |
| 118 | GR | 2 | $9 / 11 / 81$ | $5 / 11 / 88$ | 6.6639 |  |  |  |  |
| 119 | GR | 1 | $8 / 31 / 81$ | $5 / 11 / 88$ | 6.6940 |  |  |  |  |
| 120 | GR | 1 | $8 / 24 / 81$ | $5 / 11 / 88$ | 6.7132 |  |  |  |  |
| 121 | GR | 1 | $6 / 20 / 81$ | $5 / 11 / 88$ | 6.8912 |  |  |  |  |
| 122 | GR | 2 | $2 / 18 / 82$ | $5 / 11 / 88$ | 6.2259 |  |  |  |  |
| 123 | GR | 1 | $2 / 10 / 82$ | $5 / 11 / 88$ | 6.2478 |  |  |  |  |
| 124 | GR | 1 | $5 / 3 / 82$ | $5 / 11 / 88$ | 6.0233 |  |  |  |  |
| 125 | GR | 2 | $4 / 27 / 82$ | $5 / 11 / 88$ | 6.0397 |  |  |  |  |
| 129 | GR | 1 | $12 / 24 / 81$ | $5 / 11 / 88$ | 6.3792 |  |  |  |  |
| 130 | GR | 1 | $7 / 20 / 81$ | $5 / 11 / 88$ | 6.8090 |  |  |  |  |
| 140 | GR | 2 | $10 / 27 / 81$ | $5 / 11 / 88$ | 6.5380 |  |  |  |  |
| 141 | GR | 1 | $5 / 13 / 82$ | $5 / 12 / 88$ | 5.9986 |  |  |  |  |
| 142 | GR | 1 | $1 / 19 / 82$ | $5 / 12 / 88$ | 6.3107 |  |  |  |  |
| 143 | GR | 2 | $1 / 5 / 82$ | $5 / 12 / 88$ | 6.3491 |  |  |  |  |
| 146 | GR | 2 | $6 / 27 / 81$ | $5 / 12 / 88$ | 6.8747 |  |  |  |  |
| 150 | PR | 2 | $2 / 20 / 82$ | $5 / 17 / 88$ | 6.2368 |  |  |  |  |
| 151 | PR | 2 | $2 / 22 / 82$ | $5 / 17 / 88$ | 6.2313 |  |  |  |  |
| 152 | PR | 1 | $2 / 3 / 82$ | $5 / 17 / 88$ | 6.2834 |  |  |  |  |
| 153 | PR | 1 | $9 / 2 / 81$ | $5 / 17 / 88$ | 6.7050 |  |  |  |  |
| 155 | PR | 1 | $10 / 22 / 81$ | $5 / 17 / 88$ | 6.5681 |  |  |  |  |
| 156 | PR | 1 | $6 / 19 / 81$ | $5 / 17 / 88$ | 6.9103 |  |  |  |  |


| No. | Reserve | Sex | D.O.B. | Init. Exam | Init. Age | 34 | Specify | Treatment | 35 |
| :---: | ---: | :---: | ---: | ---: | :---: | :---: | :---: | :---: | :---: |
| 157 | PR | 1 | $6 / 27 / 81$ | $5 / 17 / 88$ | 6.8884 |  |  |  |  |
| 158 | PR | 2 | $10 / 31 / 81$ | $5 / 17 / 88$ | 6.5435 |  |  |  |  |
| 159 | PR | 1 | $10 / 27 / 81$ | $5 / 17 / 88$ | 6.5544 |  |  |  |  |
| 160 | PR | 1 | $12 / 31 / 81$ | $5 / 17 / 88$ | 6.3765 |  |  |  |  |
| 168 | PR | 1 | $12 / 25 / 81$ | $5 / 17 / 88$ | 6.3929 |  |  |  |  |
| 171 | TP | 2 | $12 / 7 / 81$ | $5 / 19 / 88$ | 6.4476 |  |  |  |  |
| 172 | TP | 1 | $11 / 18 / 81$ | $5 / 19 / 88$ | 6.4997 |  |  |  |  |
| 173 | TP | 2 | $6 / 23 / 81$ | $5 / 19 / 88$ | 6.9049 |  |  |  |  |
| 174 | TP | 1 | $11 / 8 / 81$ | $5 / 19 / 88$ | 6.5270 |  |  |  |  |
| 175 | TP | 1 | $3 / 27 / 82$ | $5 / 19 / 88$ | 6.1465 |  |  |  |  |
| 191 | PK | 2 | $2 / 4 / 82$ | $5 / 30 / 88$ | 6.3162 |  |  |  |  |
| 192 | PK | 2 | $2 / 3 / 82$ | $5 / 30 / 88$ | 6.3190 |  |  |  |  |
| 193 | PK | 1 | $1 / 23 / 82$ | $5 / 30 / 88$ | 6.3491 |  |  |  |  |
| 194 | PK | 1 | $1 / 2 / 82$ | $5 / 30 / 88$ | 6.4066 |  |  |  |  |
| 195 | PK | 1 | $6 / 21 / 81$ | $5 / 30 / 88$ | 6.9405 |  |  |  |  |
| 196 | PK | 1 | $10 / 8 / 81$ | $5 / 30 / 88$ | 6.6420 |  |  |  |  |
| 197 | PK | 1 | $8 / 19 / 81$ | $5 / 30 / 88$ | 6.7789 |  |  |  |  |
| 198 | PK | 1 | $6 / 5 / 81$ | $5 / 30 / 88$ | 6.9843 |  |  |  |  |
| 212 | PK | 2 | $12 / 24 / 81$ | $5 / 31 / 88$ | 6.4339 |  |  |  |  |
| 213 | PK | 1 | $10 / 6 / 81$ | $5 / 31 / 88$ | 6.6502 |  |  |  |  |
| 214 | PK | 1 | $2 / 15 / 82$ | $5 / 31 / 88$ | 6.2888 |  |  |  |  |
| 221 | PK | 1 | $5 / 18 / 82$ | $5 / 31 / 88$ | 6.0370 |  |  |  |  |
| 222 | PK | 2 | $1 / 25 / 82$ | $5 / 31 / 88$ | 6.3463 |  |  |  |  |
| 225 | PK | 1 | $6 / 3 / 81$ | $6 / 2 / 88$ | 6.9979 |  |  |  |  |

SWAMPY CREE TRIBAL COUNCIL - 6 YEARS

| No. | Specify | TX. | 36 | 61 | 62 | 63 | 64 | X-rays | 18 | 17 | 16 | 15,55 | 14,54 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 |  |  |  | 0 | 1 | 0 | 0 |  | 80 | 80 | 00 | D1 | AO |
| 2 |  |  | 1 | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | AO | AO |
| 3 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | AO | AO |
| 12 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | AO | AO |
| 13 |  |  |  | 1 | 1 | 0 | 0 |  | 80 | 80 | 00 | B1 | B4 |
| 14 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | CO | CO |
| 15 |  |  |  | 1 | 1 | 0 | 0 |  | 80 | 80 | 00 | B2 | AO |
| 16 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | CO | CO |
| 17 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 80 | CO | CO |
| 18 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | CO | CO |
| 19 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | B2 | MO |
| 20 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | CO | AO |
| 21 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 80 | AO | AO |
| 24 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 80 | B4 | B2 |
| 25 |  |  |  | 0 | 1 | 0 | 0 |  | 80 | 80 | 00 | B4 | B4 |
| 28 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 80 | B2 | AO |
| 29 |  |  |  | 1 | 1 | 0 | 0 |  | 80 | 80 | 00 | AO | AO |
| 30 | supernum. Mand. prim. inc. | none |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 80 | B2 | B4 |
| 31 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | AO | AO |
| 32 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | B2 | B1 |
| 33 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 80 | AO | AO |
| 34 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | AO | CO | CO |
| 35 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 00 | B2 | MO |
| 36 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 80 | B2 | AO |
| 37 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 80 | B4/9 | B1 |
| 38 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 80 | AO | AO |
| 41 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 80 | AO | AO |
| 43 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | AO | AO |


| No. | Specify | TX. | 36 | 61 | 62 | 63 | 64 | X-rays | 18 | 17 | 16 | 15,55 | 14,54 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 44 |  |  |  | 0 | 1 | 0 | 0 |  | 80 | 80 | 00 | B2 | AO |
| 45 |  |  |  | 0 | 1 | 0 | 0 |  | 80 | 80 | 00 | AO | AO |
| 46 |  |  |  | 0 | 1 | 0 | 0 |  | 80 | 80 | 80 | AO | AO |
| 47 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | AO | AO |
| 48 |  |  |  | 0 | 1 | 0 | 0 |  | 80 | 80 | 00 | B2 | B4 |
| 49 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 11 | MO | MO |
| 50 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 00 | B2 | B5/9 |
| 51 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 12 | AO | AO |
| 52 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 11 | MO | CO |
| 53 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | CO | CO |
| 54 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | AO | B2 |
| 55 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | CO | CO |
| 64 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 80 | B4 | B4 |
| 65 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | CO | CO |
| 82 |  |  |  | 1 | 0 | 0 | 0 |  | 80 | 80 | 00 | CO | AO |
| 83 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | CO | 00 |
| 84 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 20 | CO | M9 |
| 85 |  |  |  | 0 | 1 | 0 | 0 |  | 80 | 80 | 00 | B2 | AO |
| 86 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | CO | AO |
| 94 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 12 | B5 | B5 |
| 95 |  |  |  | 0 | 1 | 0 | 0 |  | 80 | 80 | 80 | B4 | MO |
| 96 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 00 | B5 | B5 |
| 98 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 00 | B4 | AO |
| 99 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 00 | AO | MO |
| 100 |  |  |  | 0 | 1 |  | 0 |  | 80 | 80 | 00 | CO | AO |
| 101 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 00 | B4/9 | B4 |
| 102 |  |  |  | 1 | 1 | 0 | 0 |  | 80 | 80 | 80 | B1 | AO |
| 103 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 80 | B2 | B5 |


| No. | Specify | TX. | 36 | 61 | 62 | 63 | 64 | X-rays | 18 | 17 | 16 | 15,55 | 14,54 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 109 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 11 | CO | MO |
| 112 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | CO | AO |
| 113 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 11 | B4 | B4 |
| 114 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | AO | AO |
| 115 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | CO | CO |
| 116 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | CO | CO |
| 117 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 00 | B4 | AO |
| 118 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | AO | AO |
| 119 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 80 | AO | AO |
| 120 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | AO | CO |
| 121 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | B2 | AO |
| 122 |  |  |  | 0 | 1 | 0 | 0 |  | 80 | 80 | 00 | AO | AO |
| 123 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 80 | AO | AO |
| 124 |  |  |  | 0 | 1 | 0 | 0 |  | 80 | 80 | 80 | B2 | B4 |
| 125 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | B2 | AO |
| 129 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | AO | AO |
| 130 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 80 | AO | AO |
| 140 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 12 | MO | MO |
| 141 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 80 | B2 | AO |
| 142 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 80 | AO | AO |
| 143 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 80 | B2 | B2 |
| 146 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | CO | AO |
| 150 |  |  |  | 0 | 1 | 0 | 0 |  | 80 | 80 | 00 | B1 | B4 |
| 151 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | B2 | AO |
| 152 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 11 | B2 | M9 |
| 153 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | AO | AO |
| 155 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 00 | B5 | B4 |
| 156 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | AO | AO |


| No. | Specify | TX. | 36 | 61 | 62 | 63 | 64 | X-rays | 18 | 17 | 16 | 15,55 | 14,54 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 157 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | CO | MO |
| 158 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 00 | CO | AO |
| 159 |  |  |  | 1 | 1 | 0 | 0 |  | 80 | 80 | 80 | AO | AO |
| 160 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | B1 | AO |
| 168 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | CO | M9 |
| 171 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | B2 | AO |
| 172 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | B2 | AO |
| 173 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 20 | CO | MO |
| 174 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | AO | AO |
| 175 |  |  |  | 0 | 1 | 0 | 0 |  | 80 | 80 | 80 | B2 | AO |
| 191 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | AO | AO |
| 192 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | B2 | AO |
| 193 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | CO | CO |
| 194 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 11 | M9 | B4/9 |
| 195 |  |  |  | 0 | 1 | 0 | 0 |  | 80 | 80 | 12 | CO | CO |
| 196 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | CO | CO |
| 197 |  |  |  | 0 | 1 | 0 | 0 |  | 80 | 80 | 00 | AO | B4 |
| 198 |  |  |  | 1 | 1 | 0 | 0 |  | 80 | 80 | 00 | B1 | B2 |
| 212 |  |  |  | 1 | 1 | 0 | 0 |  | 80 | 80 | 00 | B4 | B5 |
| 213 |  |  |  | 1 | , | 1 | 0 |  | 80 | 80 | 00 | B1 | AO |
| 214 |  |  |  | 1 | 1 | 0 | 0 |  | 80 | 80 | 11 | B1 | B5 |
| 221 |  |  |  | 0 | 1 | 0 | 0 |  | 80 | 80 | 00 | B2 | AO |
| 222 |  |  |  | 0 | 0 | 0 | 0 |  | 80 | 80 | 20 | CO | M9 |
| 225 |  |  |  | 1 | 1 | 1 | 0 |  | 80 | 80 | 80 | B2 | B4 |


| No. | 13,53 | 12,52 | 11,51 | 21,61 | 22,62 | 23,63 | 24,64 | 25,65 | 26 | 27 | 28 | 48 | 47 | 46 | 45,85 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | AO | MO | MO | MO | MO | AO | AO | CO | 00 | 80 | 80 | 80 | 80 | 00 | AO |
| 2 | AO | AO | B0 | BO | AO | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 12 | B1 |
| 3 | AO | AO | B0 | BO | AO | AO | MO | B1 | 00 | 80 | 80 | 80 | 80 | 80 | CO |
| 12 | AO | AO | AO | BO | AO | AO | AO | B1 | 00 | 80 | 80 | 80 | 80 | 00 | B1 |
| 13 | AO | AO | B5 | B5 | BO | AO | B4 | B2 | 00 | 80 | 80 | 80 | 80 | 00 | MO |
| 14 | AO | BO | 00 | 00 | 80 | AO | MO | MO | 00 | 80 | 80 | 80 | 80 | 11 | CO |
| 15 | AO | AO | B5 | BO | AO | AO | AO | B2 | 00 | 80 | 80 | 80 | 80 | 00 | B4 |
| 16 | AO | AO | BO | AO | AO | AO | AO | CO | 80 | 80 | 80 | 80 | 80 | 00 | CO |
| 17 | B1 | AO | BO | BO | BO | AO | CO | CO | 80 | 80 | 80 | 80 | 80 | 80 | M9 |
| 18 | AO | AO | AO | AO | AO | MO | CO | AO | 00 | 80 | 80 | 80 | 80 | 00 | CO |
| 19 | MO | MO | MO | MO | MO | MO | MO | D2 | 00 | 80 | 80 | 80 | 80 | 00 | AO |
| 20 | AO | AO | AO | MO | AO | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 11 | CO |
| 21 | AO | 80 | 00 | 00 | AO | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 00 | MO |
| 24 | B1 | AO | AO | AO | AO | AO | B2 | B4 | 80 | 80 | 80 | 80 | 80 | 80 | B4/9 |
| 25 | AO | AO | BO | AO | AO | AO | B4 | B2 | 00 | 80 | 80 | 80 | 80 | 00 | AO |
| 28 | AO | AO | AO | AO | AO | AO | AO | B1 | 80 | 80 | 80 | 80 | 80 | 80 | AO |
| 29 | AO | BO | B0 | BO | BO | AO | AO | B1 | 00 | 80 | 80 | 80 | 80 | 00 | B4 |
| 30 | B1 | BO | BO | B5 | BO | AO | B1 | B2 | 80 | 80 | 80 | 80 | 80 | 80 | B2 |
| 31 | AO | AO | B0 | BO | AO | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 00 | AO |
| 32 | AO | B0 | B0 | BO | AO | B2 | B2 | B2 | 80 | 80 | 80 | 80 | 80 | 80 | B2 |
| 33 | AO | MO | MO | MO | MO | AO | AO | AO | 80 | 80 | 80 | 80 | 80 | 80 | AO |
| 34 | AO | BO | B0 | BO | BO | AO | AO | CO | 00 | 80 | 80 | 80 | 80 | 00 | CO |
| 35 | AO | MO | MO | MO | MO | AO | MO | B2 | 00 | 80 | 80 | 80 | 80 | 00 | AO |
| 36 | AO | AO | BO | AO | AO | AO | AO | B1 | 80 | 80 | 80 | 80 | 80 | 80 | B4 |
| 37 | B2 | AO | BO | AO | AO | AO | B4 | AO | 80 | 80 | 80 | 80 | 80 | 80 | AO |
| 38 | AO | AO | AO | AO | AO | AO | AO | AO | 80 | 80 | 80 | 80 | 80 | 80 | AO |
| 41 | B2 | BO | BO | BO | AO | AO | AO | B2 | 80 | 80 | 80 | 80 | 80 | 80 | B1 |
| 43 | AO | AO | AO | AO | AO | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 80 | AO |


| No. | 13,53 | 12,52 | 11,51 | 21,61 | 22,62 | 23,63 | 24,64 | 25,65 | 26 | 27 | 28 | 48 | 47 | 46 | 45,85 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 44 | AO | AO | AO | AO | AO | AO | AO | B2 | 12 | 80 | 80 | 80 | 80 | 00 | B2 |
| 45 | AO | AO | AO | B0 | AO | AO | B1 | AO | 00 | 80 | 80 | 80 | 80 | 80 | AO |
| 46 | AO | AO | AO | AO | AO | AO | B2 | AO | 80 | 80 | 80 | 80 | 80 | 00 | AO |
| 47 | AO | AO | BO | MO | AO | AO | AO | AO | 80 | 80 | 80 | 80 | 80 | 80 | B1 |
| 48 | AO | AO | AO | AO | AO | AO | B4 | B2 | 00 | 80 | 80 | 80 | 80 | 00 | AO |
| 49 | MO | MO | MO | MO | MO | MO | MO | MO | 11 | 80 | 80 | 80 | 80 | 11 | B2 |
| 50 | AO | AO | MO | MO | AO | AO | B5 | B4 | 00 | 80 | 80 | 80 | 80 | 12 | B4 |
| 51 | AO | AO | 00 | B5 | AO | AO | AO | B2 | 12 | 80 | 80 | 80 | 80 | 00 | B4 |
| 52 | CO | MO | 00 | 00/80 | MO | CO | CO | MO | 00 | 80 | 80 | 80 | 80 | 00 | MO |
| 53 | AO | MO | MO | MO | MO | AO | MO | CO | 00 | 80 | 80 | 80 | 80 | 00 | CO |
| 54 | AO | AO | BO | BO | AO | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 00 | B2 |
| 55 | AO | BO | AO | AO | BO | B1 | CO | CO | CO | 80 | 80 | 80 | 80 | 20 | CO |
| 64 | AO | AO | AO | BO | BO | AO | B4/9 | B2 | 00 | 80 | 80 | 80 | 80 | 00 | B4 |
| 65 | MO | MO | MO | MO | MO | AO | MO | CO | 00 | 80 | 80 | 80 | 80 | 11 | MO |
| 82 | AO | AO | BO | BO | AO | B1 | AO | AO | 00 | 80 | 80 | 80 | 80 | 00 | CO |
| 83 | MO | MO | 00 | 00 | AO | CO | MO | CO | 00 | 80 | 80 | 80 | 80 | 00 | CO |
| 84 | B1 | BO | BO | BO | BO | CO | CO | CO | 00 | 80 | 80 | 80 | 80 | 00 | CO |
| 85 | B4 | BO | B0 | B0 | BO | B3 | AO | B2 | 00 | 80 | 80 | 80 | 80 | 12 | M9 |
| 86 | AO | B0 | B0 | MO | MO | CO | CO | CO | 00 | 80 | 80 | 80 | 80 | 00 | CO |
| 94 | B5 | 80 | B5/00 | B5/00 | 80 | B3 | B5 | B5 | 13 | 80 | 80 | 80 | 80 | 12 | B5 |
| 95 | MO | MO | MO | MO | MO | MO | MO | MO | 00 | 80 | 80 | 80 | 80 | 11 | MO |
| 96 | B4 | 80 | 00 | 00 | 80 | B4 | B5 | B5 | 00 | 80 | 80 | 80 | 80 | 00 | B4 |
| 98 | AO | 80 | 00 | 00 | AO | AO | AO | M9 | 00 | 80 | 80 | 80 | 80 | 00 | B4/9 |
| 99 | AO | MO | MO | MO | MO | B2 | MO | B1 | 00 | 80 | 80 | 80 | 80 | 00 | B4 |
| 100 | AO | AO | BO | BO | AO | AO | AO | B1 | 00 | 80 | 80 | 80 | 80 | 00 | B4/9 |
| 101 | B2 | B0 | MO | BO | B0 | B3 | B4 | B4 | 00 | 80 | 80 | 80 | 80 | 00 | CO |
| 102 | AO | B0 | BO | BO | B5 | AO | B2 | B2 | 80 | 80 | 80 | 80 | 80 | 80 | B5/9 |
| 103 | AO | AO | BO | BO | BO | AO | B5 | B3 | 80 | 80 | 80 | 80 | 80 | 80 | B2 |


| No. | 13,53 | 12,52 | 11,51 | 21,61 | 22,62 | 23,63 | 24,64 | 25,65 | 26 | 27 | 28 | 48 | 47 | 46 | 45,85 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 109 | AO | MO | MO | MO | MO | AO | MO | CO | 00 | 80 | 80 | 80 | 80 | 11 | MO |
| 112 | AO | BO | BO | BO | B0 | AO | AO | CO | 00 | 80 | 80 | 80 | 80 | 00 | CO |
| 113 | B2 | AO | 00 | 00 | AO | B2 | B1 | B2 | 14 | 80 | 80 | 80 | 80 | 12 | B2 |
| 114 | AO | AO | AO | AO | AO | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 00 | AO |
| 115 | AO | AO | AO | AO | CO | CO | MO | CO | 00 | 80 | 80 | 80 | 80 | 00 | CO |
| 116 | AO | 80 | 00 | 00 | 80 | AO | CO | CO | 00 | 80 | 80 | 80 | 80 | 00 | CO |
| 117 | AO | BO | AO | AO | AO | AO | AO | B1 | 80 | 80 | 80 | 80 | 80 | 00 | B4 |
| 118 | AO | AO | B0 | BO | AO | AO | AO | AO | 80 | 80 | 80 | 80 | 80 | 00 | AO |
| 119 | AO | AO | AO | AO | AO | AO | AO | AO | 80 | 80 | 80 | 80 | 80 | 00 | AO |
| 120 | AO | BO | B0 | BO | AO | AO | CO | CO | 00 | 80 | 80 | 80 | 80 | 11 | CO |
| 121 | AO | BO | 05/80 | 05/80 | 80 | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 00 | CO |
| 122 | AO | BO | AO | AO | AO | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 00 | AO |
| 123 | AO | AO | AO | AO | AO | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 00 | B1 |
| 124 | AO | AO | AO | AO | AO | AO | B2 | B2 | 80 | 80 | 80 | 80 | 80 | 80 | B2 |
| 125 | AO | AO | AO | AO | AO | AO | AO | B2 | 00 | 80 | 80 | 80 | 80 | 00 | AO |
| 129 | AO | AO | AO | AO | AO | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 00 | B1 |
| 130 | AO | AO | AO | AO | AO/AO | AO | AO | AO | 80 | 80 | 80 | 80 | 80 | 80 | AO |
| 140 | MO | MO | 00 | 80 | MO | CO | 00 | MO | 20 | 80 | 80 | 80 | 80 | 20 | CO |
| 141 | AO | AO | AO | AO | AO | AO | AO | B2 | 80 | 80 | 80 | 80 | 80 | 80 | B2 |
| 142 | AO | AO | AO | AO | AO | AO | AO | AO | 80 | 80 | 80 | 80 | 80 | 80 | AO |
| 143 | AO | AO | AO | AO | AO | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 00 | AO |
| 146 | AO | BO | BO | BO | BO | AO | AO | CO | 00 | 80 | 80 | 80 | 80 | 00 | AO |
| 150 | AO | AO | AO | BO | AO | AO | B1 | B2 | 00 | 80 | 80 | 80 | 80 | 00 | B2 |
| 151 | AO | AO | BO | AO | AO | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 00 | AO |
| 152 | AO | MO | MO | MO | MO | AO | AO | B1 | 00 | 80 | 80 | 80 | 80 | 00 | AO |
| 153 | AO | BO | MO | BO | B0 | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 00 | B1 |
| 155 | B2 | AO | BO | BO | B0 | AO | B2 | B4 | 00 | 80 | 80 | 80 | 80 | 00 | CO |
| 156 | AO | AO | 00 | 00 | AO | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 00 | CO |


| No. | 13,53 | 12,52 | 11,51 | 21,61 | 22,62 | 23,63 | 24,64 | 25,65 | 26 | 27 | 28 | 48 | 47 | 46 | 45,85 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 157 | AO | AO | AO | BO | BO | AO | CO | CO | 00 | 80 | 80 | 80 | 80 | 00 | MO |
| 158 | B2 | AO | MO | MO | BO | AO | B1 | E4/9 | 00 | 80 | 80 | 80 | 80 | 00 | B1 |
| 159 | AO | B5 | B5 | B1 | AO | AO | B4 | AO | 80 | 80 | 80 | 80 | 80 | 00 | B4 |
| 160 | AO | BO | BO | BO | AO | AO | CO | CO | 00 | 80 | 80 | 80 | 80 | 11 | CO |
| 168 | CO | BO | B0 | BO | BO | AO | CO | CO | 00 | 80 | 80 | 80 | 80 | 00 | CO |
| 171 | AO | AO | AO | AO | AO | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 00 | AO |
| 172 | AO | AO | BO | AO | AO | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 00 | AO |
| 173 | AO | AO | AO | 80 | AO | AO | CO | CO | 20 | 80 | 80 | 80 | 80 | 20 | MO |
| 174 | AO | AO | BO | AO | AO | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 00 | AO |
| 175 | AO | BO | AO | AO | AO | AO | B2 | AO | 00 | 80 | 80 | 80 | 80 | 80 | B1 |
| 191 | AO | AO | BO | BO | AO | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 00 | B2 |
| 192 | AO | AO | BO | BO | AO | AO | AO | AO | 13 | 80 | 80 | 80 | 80 | 00 | M9 |
| 193 | AO | AO | B0 | AO | AO | AO | CO | CO | 00 | 80 | 80 | 80 | 80 | 00 | CO |
| 194 | AO | AO | MO | MO | BO | AO | E2 | CO | 00 | 80 | 80 | 80 | 80 | 00 | M9 |
| 195 | CO | AO | AO | AO | AO | AO | CO | CO | 00 | 80 | 80 | 80 | 80 | 12 | B4 |
| 196 | AO | MO | MO | MO | MO | AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 12 | M9 |
| 197 | AO | BO | BO | BO | BO | AO | B2 | B4 | 80 | 80 | 80 | 80 | 80 | 80 | AO |
| 198 | B2 | AO | AO | 80 | AO | AO | B1 | AO | 00 | 80 | 80 | 80 | 80 | 00 | B4 |
| 212 | AO | AO | AO | AO | AO | AO | B5 | B4 | 11 | 80 | 80 | 80 | 80 | 00 | B4 |
| 213 | AO | BO | BO | BO | BO | AO/AO | AO | AO | 00 | 80 | 80 | 80 | 80 | 11 | AO |
| 214 | B2 | B0 | BO | MO | BO | B1 | B4 | B4 | 11 | 80 | 80 | 80 | 80 | 80 | D2 |
| 221 | AO | B0 | BO | BO | AO | AO | AO | B4 | 00 | 80 | 80 | 80 | 80 | 80 | AO |
| 222 | AO | MO | MO | MO | MO | AO | M9 | CO | 20 | 80 | 80 | 80 | 80 | 00 | CO |
| 225 | BO | B5 | BO | BO | AO | AO | B4 | AO | 80 | 80 | 80 | 80 | 80 | 00 | B5 |


| No. | 44,84 | 43,83 | 42,82 | 41,81 | 31,71 | 32,72 | 33,73 | 34,74 | 35,75 | 36 | 37 | 38 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | AO | AO | AO | 00 | 00 | AO | AO | B4 | B1 | 00 | 80 | 80 |
| 2 | AO | AO | 80 | 00 | 00 | AO | AO | D4 | B1 | 12 | 80 | 80 |
| 3 | CO | AO | AO | 00 | 00 | AO | AO | CO | CO | 80 | 80 | 80 |
| 12 | AO | AO | AO | 00 | 00 | AO | AO | AO | B1 | 00 | 80 | 80 |
| 13 | MO | AO | 00 | 00 | 00 | 00 | AO | B4 | B2 | 00 | 80 | 80 |
| 14 | CO | AO | 00 | 00 | 00 | 00 | AO | CO | CO | 11 | 80 | 80 |
| 15 | AO | AO | AO | AO | AO | AO | AO | AO | B2 | 00 | 80 | 80 |
| 16 | CO | AO | AO | 00 | 00 | AO | AO | CO | CO | 00 | 80 | 80 |
| 17 | CO | AO | AO | AO | AO | AO | AO | B4 | M9 | 00 | 80 | 80 |
| 18 | CO | AO | AO | 00 | 00 | AO | AO | AO | AO | 00 | 80 | 80 |
| 19 | D2 | AO | 80 | 00 | 00 | 80 | AO | MO | CO | 00 | 80 | 80 |
| 20 | MO | AO | AO | 00 | 00 | AO | AO | AO | B1 | 11 | 80 | 80 |
| 21 | MO | B1 | 00 | 00 | 00 | 00 | CO | CO | CO | 00 | 80 | 80 |
| 24 | AO | AO | AO | 80 | 00 | AO | AO | B2 | CO | 00 | 80 | 80 |
| 25 | B1 | AO | AO | AO | 00 | AO | AO | AO | AO | 00 | 80 | 80 |
| 28 | AO | AO | AO | AO | AO | AO | AO | AO | AO | 80 | 80 | 80 |
| 29 | AO | AO | AO | 00 | 00 | AO | AO | AO | B5/9 | 00 | 80 | 80 |
| 30 | B2 | AO | AO | AO | AO | AO | AO | B4 | B4/9 | 80 | 80 | 80 |
| 31 | AO | AO | AO | AO | 00 | AO | AO | AO | AO | 00 | 80 | 80 |
| 32 | B2 | AO | AO | AO | AO | AO | AO | B2 | M9 | 80 | 80 | 80 |
| 33 | AO | AO | AO | AO | AO | AO | AO | AO | AO | 80 | 80 | 80 |
| 34 | M9 | AO | AO | AO | AO | AO | AO | CO | CO | 00 | 80 | 80 |
| 35 | B1 | AO | AO | 00 | 00 | AO | AO | B4/9 | AO | 00 | 80 | 80 |
| 36 | AO | AO | AO | AO | AO | AO | AO | AO | B4/9 | 80 | 80 | 80 |
| 37 | AO | AO | AO | AO | AO | AO | AO | AO | B1 | 80 | 80 | 80 |
| 38 | AO | AO | AO | 00 | 00 | AO | AO | AO | AO | 80 | 80 | 80 |
| 41 | AO | AO | AO | AO | AO | AO | AO | AO | AO | 80 | 80 | 80 |
| 43 | AO | AO | AO | 00 | 00 | AO | AO | B2 | AO | 80 | 80 | 80 |


| No. | 44,84 | 43,83 | 42,82 | 41,81 | 31,71 | 32,72 | 33,73 | 34,74 | 35,75 | 36 | 37 | 38 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 44 | B4 | AO | 00 | 00 | 00 | AO | AO | B2 | B1 | 11 | 80 | 80 |
| 45 | AO | AO | AO | 00 | AO | AO | AO | B4 | AO | 80 | 80 | 80 |
| 46 | B4 | AO | AO | AO | AO | AO | AO | AO | AO | 00 | 80 | 80 |
| 47 | B2 | AO | AO | AO | AO | AO | AO | B2 | AO | 80 | 80 | 80 |
| 48 | AO | AO | AO | AO | AO | AO | AO | AO | AO | 00 | 80 | 80 |
| 49 | MO | AO | AO | AO | AO | AO | AO | MO | B1 | 00 | 80 | 80 |
| 50 | B4/9 | AO | AO | 00 | 00 | AO | AO | AO | B2 | 11 | 80 | 80 |
| 51 | AO | AO | AO | 00 | 00 | AO | B2 | B4 | AO | 11 | 80 | 80 |
| 52 | AO | AO | 00 | 00 | 00 | 00 | AO | D1 | MO | 00 | 80 | 80 |
| 53 | D2 | AO | AO | AO | AO | AO | AO | MO | CO | CO | 80 | 80 |
| 54 | AO | AO | AO | 00 | 00 | AO | AO | AO | AO | 11 | 80 | 80 |
| 55 | CO | AO | AO | 00 | 00 | AO | AO | CO | CO | 00 | 80 | 80 |
| 64 | B5 | AO | AO | AO | AO | AO | B1 | B4 | B5 | 11 | 80 | 80 |
| 65 | MO | AO | AO | 00 | 00 | AO | AO | D2 | B2 | 00 | 80 | 80 |
| 82 | B5 | AO | 00 | 00 | 00 | AO | AO | AO | B1 | 00 | 80 | 80 |
| 83 | AO | AO | 00 | 00 | 00 | 00 | AO | AO | AO | 00 | 80 | 80 |
| 84 | M9 | AO | 80 | 00 | 00 | 00 | AO | MO | CO | 00 | 80 | 80 |
| 85 | B4 | AO | 00 | 00 | 00 | 00 | B1 | B4 | M9 | 11 | 80 | 80 |
| 86 | CO | AO | AO | 00 | 00 | AO | AO | CO | CO | 00 | 80 | 80 |
| 94 | B4 | B3 | 00 | 00 | 00 | 00 | B3 | B4/9 | B5 | 15 | 80 | 80 |
| 95 | MO | B3 | AO | 00 | 00 | AO | B1 | MO | MO | 00 | 80 | 80 |
| 96 | B4/9 | B3 | B0 | 00 | 00 | B0 | B4 | B4/9 | B5 | 00 | 80 | 80 |
| 98 | B2 | B2 | 00 | 00 | 00 | 00 | AO | AO | B4 | 11 | 80 | 80 |
| 99 | CO | AO | AO | 00 | 00 | AO | AO | B2 | B4/9 | 00 | 80 | 80 |
| 100 | B4/9 | B2 | AO | 00 | 00 | AO | B2 | AO | M9 | 11 | 80 | 80 |
| 101 | M9 | AO | BO | 00 | 00 | AO | B3 | B5 | B5 | 11 | 80 | 80 |
| 102 | B2 | AO | AO | AO | AO | AO | AO | B2 | B4 | 00 | 80 | 80 |
| 103 | B2 | AO | AO | AO | AO | AO | AO | B1 | B4/9 | 80 | 80 | 80 |

SWAMPY CREE TRIBAL COUNCIL - 6 YEARS
Page 14

| No. | 44,84 | 43,83 | 42,82 | 41,81 | 31,71 | 32,72 | 33,73 | 34,74 | 35,75 | 36 | 37 | 38 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 109 | E2 | AO | AO | 00 | 00 | AO | AO | MO | MO | 11 | 80 | 80 |
| 112 | AO | AO | 80 | 00 | 00 | AO | AO | CO | CO | 20 | 80 | 80 |
| 113 | B4/9 | B3 | 00 | 00 | 00 | 00 | B3 | B4 | B4/9 | 12 | 80 | 80 |
| 114 | AO | AO | AO | 00 | 00 | AO | AO | AO | AO | 00 | 80 | 80 |
| 115 | MO | AO | 80 | 00 | 00 | 80 | AO | MO | CO | 00 | 80 | 80 |
| 116 | CO | AO | 00 | 00 | 00 | 00 | AO | CO | CO | 00 | 80 | 80 |
| 117 | B2 | AO | AO | 00 | 00 | AO | AO | AO | B4/9 | 00 | 80 | 80 |
| 118 | AO | AO | AO | 00 | 00 | AO | AO | AO | AO | 80 | 80 | 80 |
| 119 | AO | AO | AO | AO | AO | AO | AO | AO | AO | 00 | 80 | 80 |
| 120 | CO | AO | 00 | 00 | 00 | 00 | AO | CO | CO | 11 | 80 | 80 |
| 121 | MO | AO | 00 | 00 | 00 | AO | AO | AO | AO | 00 | 80 | 80 |
| 122 | AO | AO | AO | 00 | 00 | AO | AO | B4 | AO | 12 | 80 | 80 |
| 123 | AO | AO | AO | AO | AO | AO | AO | AO | B1 | 11 | 80 | 80 |
| 124 | B2 | AO | AO | AO | AO | AO | AO | B2 | B2 | 80 | 80 | 80 |
| 125 | AO | AO | 00 | 00 | 00 | AO | AO | AO | B1 | 00 | 80 | 80 |
| 129 | AO | AO | AO | AO | AO | AO | AO | AO | AO | 00 | 80 | 80 |
| 130 | AO | AO | AO | 00 | 00 | AO | AO | E4 | B2 | 00 | 80 | 80 |
| 140 | MO | CO | 80 | 00 | 00 | 00 | MO | MO | CO | 11 | 80 | 80 |
| 141 | AO | AO | AO | AO | AO | AO | AO | AO | B1 | 80 | 80 | 80 |
| 142 | AO | AO | AO | AO | AO | AO | AO | AO | AO | 00 | 80 | 80 |
| 143 | AO | AO | AO | AO | AO | AO | AO | AO | AO | 00 | 80 | 80 |
| 146 | AO | AO | AO | 00 | 00 | AO | AO | AO | AO | 00 | 80 | 80 |
| 150 | B4 | AO | AO | AO | AO | AO | AO | B2 | B2 | 00 | 80 | 80 |
| 151 | AO | AO | 00 | 00 | 00 | 00 | AO | B2 | AO | 00 | 80 | 80 |
| 152 | AO | AO | AO | AO | 00 | AO | AO | B4/9 | B2 | 12 | 80 | 80 |
| 153 | B2 | AO | AO | BO | 00 | AO | AO | B2 | AO | 00 | 80 | 80 |
| 155 | CO | AO | AO | 00 | 00 | 80 | AO | B5 | B4 | 00 | 80 | 80 |
| 156 | CO | AO | AO | 00 | 00 | AO | CO | CO | CO | 00 | 80 | 80 |

SWAMPY CREE TRIBAL COUNCIL - 6 YEARS Page 15

| No. | 44,84 | 43,83 | 42,82 | 41,81 | 31,71 | 32,72 | 33,73 | 34,74 | 35,75 | 36 | 37 | 38 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 157 | MO | AO | 00 | 00 | 00 | 00 | AO | MO | MO | 00 | 80 | 80 |
| 158 | AO | AO | AO | 00 | 00 | 00 | AO | B2 | AO | 00 | 80 | 80 |
| 159 | B4 | AO | AO | AO | AO | AO | AO | AO | AO | 00 | 80 | 80 |
| 160 | CO | AO | AO | 00 | 00 | AO | CO | CO | CO | 11 | 80 | 80 |
| 168 | CO | AO | AO | 00 | 00 | AO | AO | CO | CO | 00 | 80 | 80 |
| 171 | AO | AO | AO | 00 | 00 | AO | AO | AO | AO | 00 | 80 | 80 |
| 172 | AO | AO | AO | 00 | AO | AO | AO | CO | CO | 11 | 80 | 80 |
| 173 | CO | AO | 00 | 00 | 00 | 00 | AO | CO | MO | 20 | 80 | 80 |
| 174 | AO | AO | 00 | 00 | 00 | AO | AO | AO | AO | 00 | 80 | 80 |
| 175 | AO | AO | AO | AO | AO | AO | AO | AO | AO | 80 | 80 | 80 |
| 191 | AO | AO | AO | AO | AO/00 | AO | AO | AO | AO | 80 | 80 | 80 |
| 192 | AO | AO | AO | 00 | 00 | AO | AO | CO | D2 | 12 | 80 | 80 |
| 193 | CO | AO | AO | 00 | 00 | AO | AO | CO | CO | 00 | 80 | 80 |
| 194 | E2 | AO | AO | 00 | 00 | AO | AO | B5 | B5 | 12 | 80 | 80 |
| 195 | B4 | AO | AO | 00 | 00 | AO | AO | B4 | B4 | 12 | 80 | 80 |
| 196 | CO | AO | AO | 00 | 00 | AO | AO | CO | CO | 11 | 80 | 80 |
| 197 | B2 | AO | AO | 00 | 00 | AO | AO | AO | AO | 80 | 80 | 80 |
| 198 | M9 | B2 | 00 | 00 | 00 | 00 | AO | B2 | B4 | 00 | 80 | 80 |
| 212 | B2 | AO | 00 | 00 | 00 | 00 | AO | B2 | B4 | 00 | 80 | 80 |
| 213 | B5 | AO | AO | 00 | 00 | AO | AO | B4/9 | B2 | 11 | 80 | 80 |
| 214 | B2 | AO | BO | BO | 00 | B0 | AO | M9 | B3 | 80 | 80 | 80 |
| 221 | B1 | AO | 80 | 00 | 00 | 80 | AO | AO | B1 | 80 | 80 | 80 |
| 222 | CO | AO | AO | 00 | 00 | AO | AO | CO | CO | 00 | 80 | 80 |
| 225 | B5 | AO | AO | AO | 00 | 00 | AO | AO | B4/9 | B5 | 80 | 80 |

SWAMPY CREE TRIBAL COUNCIL-6 YEARS
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## APPENDIX C

## Original Data

SCTC - 13-year-olds

| No. | Reserve | Sex | D.0.B. | Init. Exam | Init. Age | 30 | 31 | 32 | 33 | 34 | Specify |
| :---: | :---: | :---: | ---: | ---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | ML | 1 | $5 / 23 / 74$ | $4 / 27 / 88$ | 13.9302 | 5 | 2 | 3 | 1 | 2 | gingivitis |
| 5 | ML | 1 | $3 / 4 / 75$ | $4 / 27 / 88$ | 13.1499 | 1 | 2 | 4 | 1 | 2 | gingivitis |
| 6 | TP | 2 | $2 / 20 / 75$ | $4 / 28 / 88$ | 13.1855 | 5 | 2 | 6 | 1 | 2 | gingivitis |
| 7 | TP | 1 | $10 / 28 / 74$ | $4 / 28 / 88$ | 13.5003 | 1 | 2 | 5 | 1 | 1 |  |
| 8 | TP | 1 | $11 / 25 / 74$ | $4 / 29 / 88$ | 13.4264 | 1 | 7 | 4 | 2 | 2 | gingivitis |
| 9 | TP | 1 | $6 / 30 / 74$ | $4 / 29 / 88$ | 13.8316 | 1 | 2 | 6 | 2 | 2 | gingivitis |
| 10 | TP | 1 | $8 / 16 / 74$ | $4 / 29 / 88$ | 13.7029 | 1 | 7 | 6 | 1 | 2 | gingivitis |
| 22 | TP | 1 | $5 / 13 / 75$ | $4 / 29 / 88$ | 12.9637 | 1 | 7 | 3 | 1 | 2 | gingivitis |
| 23 | TP | 2 | $1 / 31 / 75$ | $4 / 29 / 88$ | 13.2430 | 4 | 3 | 3 | 2 | 2 | gingivitis |
| 42 | TP | 1 | $10 / 6 / 74$ | $5 / 2 / 88$ | 13.5715 | 1 | 7 | 1 | 1 | 2 | gingivitis |
| 56 | ML | 1 | $2 / 21 / 75$ | $5 / 4 / 88$ | 13.1992 | 5 | 7 | 6 | 1 | 2 | gingivitis |
| 57 | ML | 1 | $4 / 22 / 75$ | $5 / 4 / 88$ | 13.0349 | 5 | 7 | 3 | 2 | 2 | gingivitis |
| 58 | ML | 1 | $4 / 2 / 75$ | $5 / 4 / 88$ | 13.0897 | 5 | 3 | 4 | 1 | 2 | gingivitis |
| 59 | ML | 1 | $10 / 2 / 74$ | $5 / 4 / 88$ | 13.5880 | 1 | 7 | 1 | 1 | 2 | gingivitis |
| 60 | ML | 2 | $11 / 20 / 74$ | $5 / 4 / 88$ | 13.4538 | 5 | 6 | 6 | 5 | 2 | gingivitis |
| 61 | ML | 2 | $11 / 11 / 74$ | $5 / 4 / 88$ | 13.4784 | 1 | 1 | 6 | 2 | 2 | gingivitis |
| 62 | ML | 1 | $2 / 13 / 75$ | $5 / 4 / 88$ | 13.2211 | 1 | 4 | 3 | 2 | 2 | gingivitis |
| 63 | ML | 1 | $5 / 24 / 75$ | $5 / 4 / 88$ | 12.9473 | 5 | 1 | 4 | 2 | 2 | gingivitis |
| 66 | ML | 1 | $7 / 6 / 74$ | $5 / 5 / 88$ | 13.8316 | 1 | 4 | 6 | 2 | 2 | gingivitis |
| 67 | ML | 1 | $1 / 30 / 75$ | $5 / 5 / 88$ | 13.2621 | 1 | 7 | 6 | 1 | 2 | gingivitis |
| 68 | ML | 1 | $1 / 21 / 75$ | $5 / 5 / 88$ | 13.2868 | 1 | 2 | 6 | 1 | 2 | gingivitis |
| 69 | ML | 2 | $4 / 9 / 75$ | $5 / 5 / 88$ | 13.0732 | 1 | 3 | 3 | 2 | 1 | gingitis |
| 70 | ML | 2 | $11 / 11 / 74$ | $5 / 5 / 88$ | 13.4812 | 1 | 7 | 2 | 1 | 2 | gingivitis |
| 71 | ML | 1 | $6 / 29 / 74$ | $5 / 5 / 88$ | 13.8508 | 1 | 4 | 1 | 5 | 2 | gingivitis |
| 72 | ML | 1 | $8 / 7 / 74$ | $5 / 5 / 88$ | 13.7440 | 5 | 1 | 6 | 1 | 2 | gingivitis |
| 73 | ML | 1 | $3 / 21 / 75$ | $5 / 5 / 88$ | 13.1253 | 1 | 3 | 2 | 5 | 2 | gingivitis |
| 74 | ML | 1 | $8 / 7 / 74$ | $5 / 5 / 88$ | 13.7440 | 1 | 7 | 3 | 1 | 2 | gingivitis |
| 75 | ML | 2 | $3 / 29 / 75$ | $5 / 5 / 88$ | 13.1034 | 1 | 4 | 3 | 2 | 2 | gingivitis |


| No. | Reserve | Sex | D.0.B. | Init. Exam | Init. Age | 30 | 31 | 32 | 33 | 34 | Specify |
| :---: | :---: | :---: | ---: | ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 76 | ML | 1 | $1 / 1 / 75$ | $5 / 5 / 88$ | 13.3415 | 1 | 7 | 6 | 1 | 2 | gingivitis |
| 77 | ML | 2 | $1 / 26 / 75$ | $5 / 5 / 88$ | 13.2731 | 1 | 2 | 2 | 1 | 1 |  |
| 79 | ML | 2 | $3 / 6 / 75$ | $5 / 5 / 88$ | 13.1663 | 5 | 7 | 1 | 5 | 2 | gingivitis |
| 80 | ML | 2 | $12 / 25 / 74$ | $5 / 5 / 88$ | 13.3607 | 1 | 7 | 6 | 5 | 2 | gingivitis |
| 87 | EV | 2 | $1 / 31 / 75$ | $5 / 9 / 88$ | 13.2704 | 5 | 3 | 3 | 1 | 2 | gingivitis |
| 88 | EV | 2 | $7 / 12 / 74$ | $5 / 9 / 88$ | 13.8261 | 5 | 7 | 6 | 5 | 2 | gingivitis |
| 89 | EV | 1 | $9 / 9 / 74$ | $5 / 9 / 88$ | 13.6646 | 1 | 1 | 4 | 1 | 2 | gingivitis |
| 90 | EV | 1 | $5 / 26 / 75$ | $5 / 9 / 88$ | 12.9555 | 1 | 7 | 4 | 1 | 2 | gingivitis |
| 91 | EV | 1 | $9 / 3 / 74$ | $5 / 9 / 88$ | 13.6810 | 1 | 6 | 4 | 1 | 2 | gingivitis |
| 92 | EV | 2 | $11 / 28 / 74$ | $5 / 9 / 88$ | 13.4456 | 5 | 3 | 6 | 1 | 2 | gingivitis |
| 93 | EV | 1 | $9 / 8 / 74$ | $5 / 9 / 88$ | 13.6674 | 5 | 7 | 6 | 1 | 2 | gingivitis |
| 104 | EV | 2 | $10 / 29 / 74$ | $5 / 10 / 88$ | 13.5305 | 5 | 7 | 6 | 5 | 2 | gingivitis |
| 105 | EV | 2 | $3 / 24 / 75$ | $5 / 10 / 88$ | 13.1307 | 5 | 1 | 6 | 1 | 2 | gingivitis |
| 106 | EV | 2 | $12 / 28 / 74$ | $5 / 10 / 88$ | 13.3662 | 5 | 7 | 6 | 5 | 2 | gingivitis |
| 107 | EV | 2 | $1 / 9 / 75$ | $5 / 10 / 88$ | 13.3333 | 2 | 3 | 6 | 5 | 2 | gingivitis |
| 108 | EV | 1 | $7 / 31 / 74$ | $5 / 10 / 88$ | 13.7769 | 1 | 3 | 2 | 1 | 2 | gingivitis |
| 110 | EV | 2 | $4 / 8 / 75$ | $5 / 10 / 88$ | 13.0897 | 1 | 7 | 6 | 3 | 2 | gingivitis |
| 111 | EV | 1 | $8 / 30 / 74$ | $5 / 10 / 88$ | 13.6947 | 5 | 4 | 6 | 5 | 2 | gingivitis |
| 126 | GR | 2 | $11 / 28 / 74$ | $5 / 11 / 88$ | 13.4511 | 5 | 7 | 6 | 2 | 2 | gingivitis |
| 127 | GR | 1 | $3 / 11 / 75$ | $5 / 11 / 88$ | 13.1691 | 1 | 2 | 3 | 3 | 2 | gingivitis |
| 128 | GR | 1 | $7 / 7 / 74$ | $5 / 11 / 88$ | 13.8453 | 1 | 7 | 6 | 2 | 2 | gingivitis |
| 131 | GR | 1 | $3 / 2 / 75$ | $5 / 11 / 88$ | 13.1937 | 5 | 7 | 4 | 2 | 2 | gingivitis |
| 132 | GR | 1 | $1 / 4 / 75$ | $5 / 11 / 88$ | 13.3498 | 5 | 7 | 2 | 2 | 2 | gingivitis |
| 133 | GR | 2 | $12 / 10 / 74$ | $5 / 11 / 88$ | 13.4182 | 1 | 1 | 6 | 2 | 2 | gingivitis |
| 134 | GR | 2 | $11 / 12 / 74$ | $5 / 11 / 88$ | 13.4949 | 5 | 1 | 6 | 5 | 2 | gingivitis |
| 135 | GR | 1 | $2 / 13 / 75$ | $5 / 11 / 88$ | 13.2402 | 4 | 7 | 3 | 2 | 2 | gingivitis |
| 136 | GR | 2 | $6 / 25 / 74$ | $5 / 11 / 88$ | 13.8782 | 5 | 4 | 3 | 2 | 2 | gingivitis |
| 137 | GR | 2 | $12 / 19 / 74$ | $5 / 11 / 88$ | 13.3936 | 5 | 1 | 1 | 2 | 2 | gingivitis |


| No. | Reserve | Sex | D.O.B. | Init. Exam | Init. Age | 30 | 31 | 32 | 33 | 34 | Specify |
| :---: | :---: | :---: | ---: | ---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 138 | GR | 1 | $9 / 16 / 74$ | $5 / 11 / 88$ | 13.6509 | 5 | 1 | 5 | 3 | 2 | gingivitis |
| 139 | GR | 2 | $12 / 13 / 74$ | $5 / 11 / 88$ | 13.4100 | 5 | 3 | 3 | 3 | 2 | gingivitis |
| 147 | GR | 2 | $8 / 16 / 74$ | $5 / 12 / 88$ | 13.7385 | 1 | 6 | 6 | 2 | 2 | gingivitis |
| 148 | GR | 1 | $4 / 17 / 75$ | $5 / 12 / 88$ | 13.0705 | 2 | 7 | 6 | 2 | 2 | gingivitis |
| 149 | PR | 2 | $11 / 8 / 74$ | $5 / 13 / 88$ | 13.5113 | 1 | 2 | 6 | 3 | 2 | gingivitis |
| 161 | PR | 2 | $5 / 23 / 75$ | $5 / 17 / 88$ | 12.9856 | 5 | 1 | 6 | 1 | 2 | gingivitis |
| 162 | PR | 2 | $3 / 20 / 75$ | $5 / 17 / 88$ | 13.1608 | 5 | 7 | 6 | 2 | 2 | gingivitis |
| 163 | PR | 1 | $2 / 9 / 75$ | $5 / 17 / 88$ | 13.2676 | 5 | 7 | 6 | 5 | 2 | gingivitis |
| 164 | PR | 1 | $11 / 8 / 74$ | $5 / 17 / 88$ | 13.5222 | 5 | 7 | 3 | 1 | 2 | gingivitis |
| 165 | PR | 2 | $1 / 23 / 75$ | $5 / 17 / 88$ | 13.3142 | 5 | 7 | 3 | 1 | 2 | gingivitis |
| 166 | PR | 2 | $1 / 17 / 75$ | $5 / 17 / 88$ | 13.3306 | 5 | 7 | 3 | 1 | 2 | gingivitis |
| 167 | PR | 1 | $9 / 28 / 74$ | $5 / 17 / 88$ | 13.6345 | 5 | 2 | 3 | 1 | 2 | gingivitis |
| 169 | PR | 2 | $3 / 29 / 75$ | $5 / 17 / 88$ | 13.1362 | 1 | 3 | 3 | 2 | 2 | gingivitis |
| 170 | PR | 2 | $3 / 13 / 75$ | $5 / 17 / 88$ | 13.1800 | 5 | 7 | 3 | 2 | 2 | gingivitis |
| 176 | TP | 2 | $3 / 3 / 75$ | $5 / 19 / 88$ | 13.2129 | 5 | 7 | 3 | 1 | 2 | gingivitis |
| 177 | TP | 2 | $2 / 21 / 75$ | $5 / 19 / 88$ | 13.2402 | 5 | 3 | 4 | 2 | 2 | gingivitis |
| 178 | TP | 1 | $2 / 20 / 75$ | $5 / 26 / 88$ | 13.2621 | 1 | 2 | 3 | 2 | 2 | gingivitis |
| 179 | TP | 2 | $8 / 2 / 74$ | $5 / 26 / 88$ | 13.8152 | 5 | 3 | 6 | 2 | 2 | gingivitis |
| 180 | TP | 2 | $10 / 23 / 74$ | $5 / 26 / 88$ | 13.5907 | 5 | 7 | 3 | 1 | 2 | gingivitis |
| 181 | TP | 1 | $12 / 15 / 74$ | $5 / 26 / 88$ | 13.4456 | 5 | 7 | 4 | 2 | 2 | gingivitis (mild) |
| 182 | TP | 2 | $11 / 24 / 74$ | $5 / 26 / 88$ | 13.5031 | 5 | 4 | 4 | 2 | 2 | gingivitis |
| 183 | TP | 2 | $11 / 9 / 74$ | $5 / 26 / 88$ | 13.5441 | 1 | 3 | 6 | 2 | 2 | gingivitis |
| 184 | TP | 1 | $6 / 6 / 74$ | $5 / 27 / 88$ | 13.9740 | 5 | 7 | 6 | 1 | 2 | gingivitis |
| 185 | TP | 1 | $1 / 12 / 75$ | $5 / 27 / 88$ | 13.3717 | 1 | 2 | 6 | 2 | 2 | gingivitis |
| 186 | TP | 2 | $10 / 27 / 74$ | $5 / 27 / 88$ | 13.5825 | 1 | 2 | 4 | 2 | 2 | gingivitis (mild) |
| 187 | TP | 1 | $9 / 11 / 74$ | $5 / 27 / 88$ | 13.7084 | 5 | 3 | 6 | 1 | 2 | gingivitis |
| 188 | TP | 1 | $9 / 7 / 74$ | $5 / 27 / 88$ | 13.7194 | 1 | 7 | 4 | 5 | 2 | gingivitis (mild) |
| 189 | TP | 2 | $2 / 12 / 75$ | $5 / 27 / 88$ | 13.2868 | 5 | 3 | 2 | 2 | 2 | gingivitis (mild) |


| No. | Reserve | Sex | D.O.B. | Init. Exam | Init. Age | 30 | 31 | 32 | 33 | 34 | Specify |
| :---: | :---: | :---: | ---: | ---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 190 | TP | 1 | $5 / 18 / 75$ | $5 / 27 / 88$ | 13.0267 | 5 | 7 | 6 | 5 | 2 | gingivitis (mild) |
| 199 | PK | 1 | $7 / 11 / 74$ | $5 / 30 / 88$ | 13.8864 | 5 | 7 | 4 | 5 | 2 | gingivitis |
| 200 | PK | 1 | $3 / 7 / 75$ | $5 / 30 / 88$ | 13.2320 | 2 | 3 | 3 | 1 | 2 | gingivitis |
| 201 | PK | 2 | $1 / 24 / 75$ | $5 / 30 / 88$ | 13.3470 | 1 | 3 | 1 | 2 | 2 | gingivitis |
| 202 | PK | 1 | $9 / 25 / 74$ | $5 / 30 / 88$ | 13.6783 | 1 | 7 | 6 | 5 | 2 | gingivitis |
| 203 | PK | 1 | $10 / 11 / 74$ | $5 / 30 / 88$ | 13.6345 | 1 | 3 | 6 | 1 | 2 | gingivitis |
| 204 | PK | 2 | $12 / 11 / 74$ | $5 / 30 / 88$ | 13.4675 | 1 | 7 | 3 | 1 | 2 | gingivitis |
| 205 | PK | 2 | $12 / 28 / 74$ | $5 / 30 / 88$ | 13.4209 | 5 | 4 | 6 | 1 | 2 | gingivitis |
| 206 | PK | 1 | $3 / 13 / 75$ | $5 / 30 / 88$ | 13.2156 | 1 | 2 | 1 | 1 | 2 | gingivitis |
| 207 | PK | 2 | $3 / 3 / 75$ | $5 / 30 / 88$ | 13.2430 | 5 | 7 | 6 | 1 | 2 | gingivitis |
| 208 | PK | 2 | $8 / 15 / 74$ | $5 / 30 / 88$ | 13.7906 | 5 | 7 | 6 | 1 | 2 | gingivitis (mild) |
| 209 | PR | 2 | $10 / 12 / 74$ | $5 / 30 / 88$ | 13.6318 | 5 | 1 | 6 | 2 | 2 | gingivitis |
| 210 | PK | 2 | $1 / 18 / 75$ | $5 / 31 / 88$ | 13.3662 | 1 | 2 | 2 | 2 | 2 | gingivitis |
| 211 | PK | 1 | $9 / 17 / 74$ | $5 / 31 / 88$ | 13.7029 | 1 | 7 | 2 | 1 | 2 | gingivitis |
| 215 | PK | 2 | $8 / 11 / 74$ | $5 / 31 / 88$ | 13.8042 | 1 | 6 | 6 | 3 | 2 | gingivitis |
| 216 | PK | 2 | $1 / 10 / 75$ | $5 / 31 / 88$ | 13.3881 | 1 | 2 | 6 | 1 | 2 | gingivitis |
| 217 | PK | 2 | $4 / 11 / 75$ | $5 / 31 / 88$ | 13.1389 | 5 | 1 | 3 | 1 | 2 | gingivitis |
| 218 | PK | 1 | $6 / 27 / 74$ | $5 / 31 / 88$ | 13.9274 | 1 | 4 | 6 | 1 | 2 | gingivitis |
| 219 | PK | 1 | $7 / 29 / 74$ | $5 / 31 / 88$ | 13.8398 | 1 | 4 | 3 | 1 | 2 | gingivitis |
| 220 | PK | 1 | $12 / 24 / 74$ | $5 / 31 / 88$ | 13.4346 | 5 | 7 | 3 | 5 | 2 | gingivitis |
| 223 | PK | 2 | $3 / 2 / 75$ | $5 / 31 / 88$ | 13.2485 | 5 | 3 | 6 | 4 | 2 | gingivitis |
| 224 | PK | 2 | $11 / 21 / 74$ | $6 / 2 / 88$ | 13.5305 | 1 | 3 | 6 | 3 | 2 | gingivitis |
| 226 | PK | 2 | $8 / 1 / 74$ | $6 / 2 / 88$ | 13.8371 | 1 | 7 | 6 | 1 | 2 | gingivitis |
| 227 | PK | 1 | $12 / 15 / 74$ | $6 / 2 / 88$ | 13.4648 | 1 | 7 | 3 | 1 | 2 | gingivitis/mild |

SWAMPY CREE TRIBAL COUNCIL - 13 YEARS

| No. | Treatment | 35 | Specify | Treatment | 36 | 37 | 38 | Location | Time |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 |  | 1 |  |  | 1 | 0 | 0 | Moose Lake | 13 |
| 5 |  | 1 |  |  | 1 | 0 | 0 | Moose Lake | 13 |
| 6 | preventive | 2 | abrasion | preventive | 1 | 0 | 0 | The Pas Reserve | 11 |
| 7 |  | 1 |  |  | 1 | 0 | 0 | The Pas Reserve | 1 |
| 8 | preventive | 2 |  |  | 1 | 0 | 0 | The Pas Reserve | 13 |
| 9 | preventive | 1 |  |  | 1 | 0 | 0 | The Pas Reserve | 13 |
| 10 | preventive | 1 |  | none | 1 | 0 | 0 | Brochet | 5,6 |
| 22 | preventive | 2 |  |  | 1 | 0 | 0 | The Pas Reserve | 13 |
| 23 | preventive | 1 |  |  | 1 | 0 | 0 | The Pas Reserve | 13 |
| 42 | preventive | 2 | hypoplasia on 12, 21 | none | 1 | 0 | 0 | The Pas Reserve | 13 |
| 56 | preventive | 2 |  |  | 1 | 0 | 0 | Moose Lake | 13 |
| 57 | preventive | 2 | impacted 23, 35 | clinical | 1 | 0 | 0 | Moose Lake | 13 |
| 58 | preventive | 2 | hypoplasia 11 | none | 1 | 0 | 0 | Moose Lake | 13 |
| 59 | preventive | 2 | peg lateral 12 | none | 1 | 0 | 0 | Moose Lake | 13 |
| 60 | preventive | 1 | hypoplasia 21, 42, | none | 1 | 0 | 0 | Moose Lake | 13 |
| 61 | preventive | 2 | fractured incisor \#11 | none | 1 | 0 | 0 | Moose Lake | 13 |
| 62 | preventive | 1 |  |  | 1 | 0 | 0 | The Pas (town) | 9 |
| 63 | preventive | 1 |  |  | 1 | 0 | 0 | Moose Lake | 12 |
| 66 | preventive | 1 |  |  | 1 | 0 | 0 | Moose Lake | 13 |
| 67 | preventive | 1 |  |  | 1 | 0 | 0 | Moose Lake | 13 |
| 68 | preventive | 1 |  |  | 1 | 0 | 0 | Moose Lake | 13 |
| 69 |  | 1 |  |  | 1 | 0 | 0 | Moose Lake | 13 |
| 70 | preventive | 2 | hypoplasia 42, 32, 36 | none | 1 | 0 | 0 | Moose Lake | 13 |
| 71 | preventive | 1 |  |  | 1 | 0 | 0 | Moose Lake | 13 |
| 72 | preventive | 2 | 23 hypoplasia; 45 fractured | none/clinical | 1 | 0 | 0 | Moose Lake | 13 |
| 73 | preventive | 1 |  |  | 1 | 0 | 0 | Moose Lake | 13 |
| 74 | preventive | 2 | 11 \& 21 hypoplasia | none | 1 | 0 | 0 | Moose Lake | 13 |
| 75 | preventive | 2 | 25 hypoplasia | none | 1 | 0 | 0 | Moose Lake | 13 |


| No. | Treatment | 35 | Specify | Treatment | 36 | 37 | 38 | Location | Time |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 76 | preventive | 2 | 21 fractured; 24 hypoplasia | clinical/none | 1 | 0 | 0 | Moose Lake | 13 |
| 77 |  | 1 |  |  | 1 | 0 | 0 | Winnipeg | 2 |
| 79 | preventive | 2 |  |  | 1 | 0 | 0 | Moose Lake | 10 |
| 80 |  | 2 |  |  | 1 | 0 | 0 | Wan less | 1 |
| 87 | preventive | 2 | hypoplasia 13 | none | 1 | 0 | 0 | Easterville | 13 |
| 88 | preventive | 1 |  |  | 1 | 0 | 0 | Easterville | 13 |
| 89 | preventive | 1 |  |  | 1 | 0 | 0 | Easterville | 13 |
| 90 | preventive | 2 | labial erosion |  | 1 | 0 | 0 | Easterville | 13 |
| 91 | preventive | 1 |  |  | 1 | 0 | 0 | Easterville | 13 |
| 92 | preventive | 2 | hypoplasia 35,15,41 | none | 1 | 0 | 0 | Easterville | 13 |
| 93 | preventive | 1 |  |  | 1 | 0 | 0 | Easterville | 13 |
| 104 | preventive | 1 |  |  | 1 | 0 | 0 | Easterville | 6 |
| 105 | preventive | 2 | hypoplasia 31 | none | 1 | 0 | 0 | Easterville | 5 |
| 106 | preventive | 2 | incisal 1 mm fract. enamel | none | 1 | 0 | 0 | Easterville | 13 |
| 107 | preventive | 1 |  |  | 1 | 0 | 0 | Easterville | 13 |
| 108 | preventive | 2 | hypoplasia 11 | none | 1 | 0 | 0 | Easterville | 13 |
| 110 | preventive | 2 | hypoplasia 15,11,24,45 | none | 1 | 0 | 0 | Easterville | 13 |
| 111 | preventive | 2 | abrasion of all teeth esp. 32,22 | preventive | 1 | 0 | 0 | Easterville | 13 |
| 126 | preventive | 1 | ang. chelitis |  | 1 | 0 | 0 | Grand Rapids | 2 |
| 127 | preventive | 2 |  |  | 1 | 0 | 0 | Grand Rapids | 13 |
| 128 | preventive | 2 | abrasion 12, 42 | none | 1 | 0 | 0 | Grand Rapids | 13 |
| 131 | preventive | 1 | hypoplasia 24,25 | none | 1 | 0 | 0 | Grand Rapids | 2 |
| 132 | preventive | 1 | mild abr. $13,23,33,43$ | preventive | 1 | 0 | 0 | Grand Rapids | 13 |
| 133 |  | 1 | abrasion 11,12,13,14 \& Md. inc. | preventive | 1 | 0 | 0 | Grand Rapids | 13 |
| 134 |  | 2 |  |  | 1 | 0 | 0 | Grand Rapids | 10 |
| 135 | preventive | 1 |  |  | 1 | 0 | 0 | Grand Rapids | 7 |
| 136 | preventive | 1 |  |  | 1 | 0 | 0 | Grand Rapids | 13 |
| 137 | preventive | 2 |  |  | 1 | 0 | 0 | Grand Rapids | 10 |


| No. | Treatment | 35 | Specify | Treatment | 36 | 37 | 38 | Location | Time |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 138 | preventive | 2 | abrasion (slight) anteriors | none | 1 | 0 | 0 | Grand Rapids | 12 |
| 139 | preventive | 2 | abrasion 23,33,13,43 | preventive | 1 | 0 | 0 | Grand Rapids | 11 |
| 147 | preventive | 2 | abrasion 13,23,33,43 | preventive | 1 | 0 | 0 | Grand Rapids | 12 |
| 148 |  | 2 | 11 Ml , fracture in enamel | clinical | 1 | 0 | 0 | Grand Rapids | 9 |
| 149 | preventive | 2 | hypoplasia 11 | none | 1 | 0 | 0 | Grand Rapids | 13 |
| 161 | preventive | 2 |  |  | 1 | 0 | 0 | Pelican Rapids | 10 |
| 162 | preventive | 2 | hypoplasia 36,46 | none | 1 | 0 | 0 | Pelican Rapids | 13 |
| 163 |  | 2 | hypoplasia 17,27,37,47,14 |  | 1 | 0 | 0 | Pelican Rapids | 13 |
| 164 | preventive | 2 | hypopl.47-45,37-35,17-15,27-25 | none | 1 | 0 | 0 | Pelican Rapids | 13 |
| 165 | preventive | 1 |  |  | 1 | 0 | 0 | Pelican Rapids | 13 |
| 166 | preventive | 2 | hypoplasia 46 |  | 1 | 0 | 0 | Pelican Rapids | 8 |
| 167 | preventive | 1 |  |  | 1 | 0 | 0 | Pelican Rapids | 13 |
| 169 | preventive | 2 | 24,25 hypoplasia | none | 1 | 0 | 0 | Pelican Rapids | 11 |
| 170 | preventive | 2 | hypoplasia 12 | none | 1 | 0 | 0 | Pelican Rapids | 13 |
| 176 | preventive | 2 | hypoplasia 12,11,21,22,13,16,36 | none | 1 | 0 | 0 | The Pas Reserve | 13 |
| 177 | preventive | 1 |  |  | 1 | 0 | 0 | The Pas Reserve | 13 |
| 178 | preventive | 2 | hypoplasia 17,14,13,11,27 | none | 1 | 1 | 0 | The Pas Reserve | 11 |
| 179 | preventive | 2 | hypoplasia 11,21,22,15 | none | 1 | 0 | 0 | The Pas Reserve | 11 |
| 180 | preventive | 1 |  |  | 1 | 0 | 0 | The Pas | 13 |
| 181 | preventive | 1 |  |  | 1 | 0 | 0 | The Pas - Umperville | 3 |
| 182 | preventive | 2 |  |  | 1 | 0 | 0 | The Pas (Big Eddy) | 13 |
| 183 | preventive | 1 |  |  | 1 | 0 | 0 | The Pas (Big Eddy) | 13 |
| 184 | preventive | 2 |  |  | 1 | 0 | 0 | The Pas | 12 |
| 185 | preventive | 1 |  |  | 1 | 0 | 0 | The Pas Reserve | 11 |
| 186 |  | 2 | hypoplasia 42,23,24 | none | 1 | 0 | 0 | The Pas Reserve | 13 |
| 187 | preventive | 1 |  |  | 1 | 1 | 0 | The Pas Reserve | 13 |
| 188 | preventive | 1 |  |  | 1 | 0 | 0 | The Pas | 13 |
| 189 |  | 2 |  |  | 1 | 0 | 0 | The Pas | 13 |


| No. | Treatment | 35 | Specify | Treatment | 36 | 37 | 38 | Location | Time |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 190 | preventive | 2 |  |  | 1 | 0 | 0 | The Pas Reserve | 13 |
| 199 | preventive | 1 |  |  | 1 | 0 | 0 | Pukatawagan | 13 |
| 200 | preventive | 1 |  |  | 1 | 0 | 0 | Pukatawagan | 13 |
| 201 | preventive | 1 |  |  | 1 | 0 | 0 | Pukatawagan | 13 |
| 202 | preventive | 1 |  |  | 1 | 0 | 0 | Pukatawagan | 13 |
| 203 | preventive | 2 | hypoplasia 23,12,13,11,21,22,24 | none | 1 | 0 | 0 | Pukatawagan | 13 |
| 204 | preventive | 2 | hypoplasia 24 | none | 1 | 0 | 0 | Pukatawagan | 13 |
| 205 | preventive | 2 | hypoplasia 46 and 26 | none | 1 | 0 | 0 | Pukatawagan | 7 |
| 206 | preventive | 2 | hypoplasia 24 | none | 1 | 0 | 0 | Pukatawagan | 13 |
| 207 | preventive | 1 |  |  | 1 | 0 | 0 | Pukatawagan | 13 |
| 208 | preventive | 2 | hypoplasia 14 | none | 1 | 0 | 0 | Pukatawagan | 13 |
| 209 | preventive | 2 | hypoplasia 45, 22 | none | 1 | 0 | 0 | Pukatawagan | 9 |
| 210 | preventive | 1 |  |  | 1 | 0 | 0 | Pukatawagan | 12 |
| 211 | preventive | 1 |  |  | 1 | 0 | 0 | Pukatawagan | 10 |
| 215 | preventive | 1 |  |  | 1 | 0 | 0 | Pukatawagan | 13 |
| 216 | preventive | 1 |  |  | 1 | 0 | 0 | Pukatawagan | 13 |
| 217 | preventive | 2 | 12, 22 peg lateral | none | 1 | 0 | 0 | Pukatawagan | 13 |
| 218 | preventive | 1 |  |  | 1 | 0 | 0 | Pukatawagan | 11 |
| 219 | preventive | 1 |  |  | 1 | 0 | 0 | Pukatawagan | 12 |
| 220 | preventive | 2 |  |  | 1 | 0 | 0 | Pukatawagan | 13 |
| 223 | preventive | 1 |  |  | 1 | 0 | 0 | Pukatawagan | 13 |
| 224 | preventive | 2 |  |  | 1 | 0 | 0 | Pukatawagan | 12.5 |
| 226 | preventive | 2 |  |  | 1 | 0 | 0 | Pukatawagan | 13 |
| 227 | preventive | 1 |  |  | 1 | 0 | 0 | Easterville | 6 |


| No. | Location | Time | Location | Time | Location | Time | 39 | 40 | 41 | PUD | PUD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 |  |  |  |  |  |  | 0 | 1 | 5 |  |  |
| 5 |  |  |  |  |  |  |  |  | 1 |  |  |
| 6 | Flin Flon | 6 mon. | Moose Lake | 6 mon. | Winnipeg | 1 | 0 | 0 | 5 |  |  |
| 7 | Cumberland | 1 | Easterville | 1 | The Pas Reserve | 10 | 0 |  |  |  |  |
| 8 |  |  |  |  |  |  | 0 |  |  |  |  |
| 9 |  |  |  |  |  |  | 0 |  |  |  |  |
| 10 | Umperville Settlem't | 1 | The Pas Reserve | 8 |  |  | 0 |  |  |  |  |
| 22 |  |  |  |  |  |  | 1 |  | 5 |  |  |
| 23 |  |  |  |  |  |  | 1 |  | 1 |  |  |
| 42 |  |  |  |  |  |  | 0 |  |  |  |  |
| 56 |  |  |  |  |  |  | 0 |  |  |  |  |
| 57 |  |  |  |  |  |  | 0 |  |  |  |  |
| 58 |  |  |  |  |  |  | 0 |  |  |  |  |
| 59 |  |  |  |  |  |  | 0 |  |  |  |  |
| 60 | The Pas (Reserve) | 0.12 |  |  |  |  | 0 |  |  |  |  |
| 61 |  |  |  |  |  |  | 0 |  |  |  |  |
| 62 | Moose Lake | 3 | Brandon | 1 |  |  | 0 |  |  |  |  |
| 63 | Nova Scotia | 1 |  |  |  |  | 0 |  |  |  |  |
| 66 |  |  |  |  |  |  | 0 |  |  |  |  |
| 67 |  |  |  |  |  |  | 0 |  |  |  |  |
| 68 |  |  |  |  |  |  | 0 |  |  |  |  |
| 69 |  |  |  |  |  |  | 0 |  |  |  |  |
| 70 |  |  |  |  |  |  | 0 |  |  |  |  |
| 71 |  |  |  |  |  |  | 0 |  |  |  |  |
| 72 |  |  |  |  |  |  | 0 |  |  |  |  |
| 73 | The Pas | 0.6 |  |  |  |  | 0 |  |  |  |  |
| 74 |  |  |  |  |  |  | 0 |  |  |  |  |
| 75 |  |  |  |  |  |  | 0 |  |  |  |  |


| No. | Location | Time | Location | Time | Location | Time | 39 | 40 | 41 | PUD | PUD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 76 |  |  |  |  |  |  | 0 |  |  |  |  |
| 77 | Brandon | 2 | Moose Lake | 9 |  |  | 0 |  |  |  |  |
| 79 | The Pas (Town) | 2 |  |  |  |  | 0 |  |  |  |  |
| 80 | The Pas Reserve | 1 | Moose Lake | 11 |  |  | 0 |  |  |  |  |
| 87 |  |  |  |  |  |  | 0 |  |  |  |  |
| 88 |  |  |  |  |  |  | 0 |  |  |  |  |
| 89 |  |  |  |  |  |  | 0 |  |  |  |  |
| 90 |  |  |  |  |  |  | 0 |  |  |  |  |
| 91 |  |  |  |  |  |  | 0 |  |  |  |  |
| 92 |  |  |  |  |  |  | 0 |  |  |  |  |
| 93 |  |  |  |  |  |  | 0 |  |  |  |  |
| 104 | Grand Rapids | 6 |  |  |  |  | 0 |  |  |  |  |
| 105 | Grand Rapids | 8 |  |  |  |  | 0 |  |  |  |  |
| 106 |  |  |  |  |  |  | 0 |  |  |  |  |
| 107 |  |  |  |  |  |  | 0 |  |  |  |  |
| 108 |  |  |  |  |  |  | 0 |  |  |  |  |
| 110 |  |  |  |  |  |  | 0 |  |  |  |  |
| 111 |  |  |  |  |  |  | 0 |  |  |  |  |
| 126 | The Pas Reserve | 11 |  |  |  |  | 0 |  |  |  |  |
| 127 |  |  |  |  |  |  | 1 | 1 | 4 |  |  |
| 128 |  |  |  |  |  |  | 0 |  |  |  |  |
| 131 | Easterville | 11 |  |  |  |  | 0 |  |  |  |  |
| 132 |  |  |  |  |  |  | 0 |  |  |  |  |
| 133 |  |  |  |  |  |  | 0 |  |  |  |  |
| 134 | Winnipeg | 3 |  |  |  |  | 0 |  |  |  |  |
| 135 | The Pas | 4 | Brandon | 2 |  |  | 0 |  |  |  |  |
| 136 |  |  |  |  |  |  | 0 |  |  |  |  |
| 137 | Winnipeg | 3 |  |  |  |  | 0 |  |  |  |  |


| No. | Location | Time | Location | Time | Location | Time | 39 | 40 | 41 | PUD | PUD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 138 | Winnipeg | 1 |  |  |  |  | 0 |  |  |  |  |
| 139 | Jenpeg | 2 |  |  |  |  | 0 |  |  |  |  |
| 147 | Thompson | 1 |  |  |  |  | 0 |  |  |  |  |
| 148 | Easterville | 4 |  |  |  |  | 0 |  |  |  |  |
| 149 |  |  |  |  |  |  | 0 |  |  |  |  |
| 161 | Bluff Road | 3 |  |  |  |  | 1 | 1 | 5 |  |  |
| 162 |  |  |  |  |  |  | 1 | 1 | 5 |  |  |
| 163 |  |  |  |  |  |  | 1 | 1 | 5 |  |  |
| 164 |  |  |  |  |  |  | 1 | 1 | 5 |  |  |
| 165 |  |  |  |  |  |  | 1 | 1 | 3 |  |  |
| 166 | Thompson | 0.08 | Wadowen | 5 |  |  | 1 | 1 | 5 |  |  |
| 167 |  |  |  |  |  |  | 1 | 1 | 5 |  |  |
| 169 | Flin Flon | 2 | The Pas/Young Point | 0.25 |  |  | 1 | 1 | 5 |  |  |
| 170 |  |  |  |  |  |  | 0 |  |  |  |  |
| 176 |  |  |  |  |  |  | 0 |  |  |  |  |
| 177 |  |  |  |  |  |  | 1 | 1 | 3 |  |  |
| 178 | Lac La Biche Alta. | 2 |  |  |  |  | 1 | 1 | 2 | 1 |  |
| 179 | Brackem Dam | 2 |  |  |  |  | 0 |  |  |  |  |
| 180 |  |  |  |  |  |  | 0 |  |  |  |  |
| 181 | The Pas Town | 3 | The Pas Reserve | 7 |  |  | 1 | 1 | 5 |  |  |
| 182 |  |  |  |  |  |  | 1 | 1 | 3 |  |  |
| 183 |  |  |  |  |  |  | 1 | 1 | 5 |  |  |
| 184 | Cumberland | 1 | Bowsman | 0.5 |  |  | 0 |  |  |  |  |
| 185 | Winnipeg | 2 |  |  |  |  | 1 | 1 | 3 |  |  |
| 186 |  |  |  |  |  |  | 1 | 1 | 2 |  |  |
| 187 |  |  |  |  |  |  | 1 | 1 | 5 |  |  |
| 188 |  |  |  |  |  |  | 0 |  |  |  |  |
| 189 |  |  |  |  |  |  | 1 | 1 | 5 |  |  |


| No. | Location | Time | Location | Time | Location | Time | 39 | 40 | 41 | PUD | PUD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 190 |  |  |  |  |  |  | 1 | 1 | 3 |  |  |
| 199 |  |  |  |  |  |  | 0 |  |  |  |  |
| 200 |  |  |  |  |  |  | 1 | 0 | 3 |  |  |
| 201 |  |  |  |  |  |  | 0 |  |  |  |  |
| 202 |  |  |  |  |  |  | 0 |  |  |  |  |
| 203 |  |  |  |  |  |  | 1 | 1 | 1 |  |  |
| 204 |  |  |  |  |  |  | 0 |  |  |  |  |
| 205 | Winnipeg | 6 |  |  |  |  | 0 |  |  |  |  |
| 206 |  |  |  |  |  |  | 0 |  |  |  |  |
| 207 |  |  |  |  |  |  | 0 |  |  |  |  |
| 208 |  |  |  |  |  |  | 0 |  |  |  |  |
| 209 | Thompson | 2 | Brandon | 1.5 | Grouard, AB | 1 | 0 |  |  |  |  |
| 210 | The Pas | 1 |  |  |  |  | 0 |  |  |  |  |
| 211 | Brandon | 3 |  |  |  |  | 0 |  |  |  |  |
| 215 |  |  |  |  |  |  | 0 |  |  |  |  |
| 216 |  |  |  |  |  |  | 0 |  |  |  |  |
| 217 |  |  |  |  |  |  | 0 |  |  |  |  |
| 218 | Thompson | 2 |  |  |  |  | 0 |  |  |  |  |
| 219 | Hollow River | 1 |  |  |  |  | 0 |  |  |  |  |
| 220 |  |  |  |  |  |  | 0 |  |  |  |  |
| 223 |  |  |  |  |  |  | 0 |  |  |  |  |
| 224 | Winnipeg | 0.5 |  |  |  |  | 0 |  |  |  |  |
| 226 |  |  |  |  |  |  | 0 |  |  |  |  |
| 227 | Winnipeg | 6 | The Pas | 1 | Pukatawagan | 0.16 | 0 |  |  |  |  |


| No. | PLDR | PUDR | 50 | 51 | 52 | 53 | 54 | 55 | 56 | Dentofacial Anomalies |
| :---: | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :--- |
| 4 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 5 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 6 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 7 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 8 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 | impacted premolars |
| 9 |  |  | 2 | 3 | 2 | 1 | 2 | 1 | 0 |  |
| 10 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 22 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 | lingual version 15 |
| 23 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 42 |  |  | 1 | 1 | 2 | 1 | 2 | 1 | 0 |  |
| 56 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 55 retained; impacted 35 \& 45 \& 15? |
| 57 |  |  | 3 | 1 | 2 | 2 | 1 | 1 | 0 |  |
| 58 |  |  | 0 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 59 | 1 |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 | submerged 45 \& 25 |
| 60 |  |  | 0 | 1 | 0 | 1 | 0 | 0 | 0 | submerged 46; abr. lower ant.'s |
| 61 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 62 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 63 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 66 |  |  | 1 | 1 | 1 | 1 | 2 | 1 | 0 |  |
| 67 |  |  | 2 | 1 | 2 | 1 | 2 | 1 | 0 |  |
| 68 |  |  | 1 | 1 | 1 | 1 | 2 | 1 | 0 |  |
| 69 |  |  | 1 | 0 | 1 | 0 | 0 | 1 | 0 |  |
| 70 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 71 |  |  | 1 | 1 | 2 | 1 | 3 | 1 | 0 |  |
| 72 |  |  | 2 | 1 | 2 | 1 | 2 | 1 | 0 | abr. lower ant.'s |
| 73 |  |  | 2 | 1 | 2 | 1 | 2 | 1 | 0 |  |
| 74 |  |  | 1 | 1 | 2 | 1 | 1 | 1 | 0 | 35 submerged insufficient space |
| 75 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 44 impacted |


| No. | PLDR | PUDR | 50 | 51 | 52 | 53 | 54 | 55 | 56 | Dentofacial Anomalies |
| :---: | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 76 |  |  | 3 | 3 | 3 | 1 | 2 | 1 | 0 | 15 linguoversion; 25 impacted |
| 77 |  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 79 |  |  | 1 | 1 | 2 | 1 | 1 | 1 | 0 | 15 rotated 180 degrees |
| 80 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 | impacted 11 |
| 87 |  |  | 3 | 3 | 3 | 1 | 1 | 1 | 0 | labial version 23 |
| 88 |  |  | 1 | 3 | 1 | 1 | 1 | 1 | 0 |  |
| 89 |  |  | 1 | 1 | 1 | 1 | 2 | 1 | 0 |  |
| 90 |  |  | 1 | 3 | 2 | 1 | 1 | 1 | 0 |  |
| 91 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 92 |  |  | 1 | 1 | 2 | 1 | 1 | 1 | 0 |  |
| 93 |  |  | 1 | 1 | 2 | 1 | 2 | 1 | 0 |  |
| 104 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 105 |  |  | 3 | 1 | 3 | 1 | 1 | 1 | 0 |  |
| 106 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 107 |  |  | 2 | 1 | 1 | 1 | 2 | 1 | 0 |  |
| 108 |  |  | 1 | 1 | 1 | 1 | 2 | 1 | 0 |  |
| 110 |  |  | 2 | 3 | 2 | 1 | 2 | 1 | 0 | 25 submerg. insuff. space to erupt |
| 111 | 1 |  | 1 | 3 | 3 | 2 | 1 | 1 | 0 |  |
| 126 |  |  | 1 | 3 | 1 | 1 | 1 | 1 | 0 |  |
| 127 |  |  | 3 | 1 | 1 | 3 | 1 | 1 | 0 | retn'd e's, cong. miss. or unerupt. 5's |
| 128 |  |  | 2 | 1 | 1 | 1 | 1 | 1 | 0 | impacted 15 due to lack of space |
| 131 |  |  | 2 | 3 | 2 | 1 | 3 | 1 | 0 |  |
| 132 |  |  | 1 | 0 | 1 | 1 | 2 | 0 | 0 | retained 75 \& 85 missing 45 \& 35 |
| 133 |  |  | 3 | 1 | 3 | 1 | 3 | 1 | 0 |  |
| 134 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 | impacted or missing 13,25 |
| 135 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 136 |  |  | 1 | 0 | 1 | 1 | 1 | 1 | 0 |  |
| 137 |  |  | 1 | 1 | 2 | 1 | 1 | 1 | 0 | 33,43 impacted or missing |


| No. | PLDR | PUDR | 50 | 51 | 52 | 53 | 54 | 55 | 56 |  |
| :---: | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 138 |  |  | 1 | 1 | 1 | 1 | 0 | 1 | 0 |  |
| 139 |  |  | 1 | 0 | 1 | 1 | 1 | 1 | 0 |  |
| 147 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 148 |  |  | 3 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 149 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 161 |  |  | 3 | 1 | 1 | 1 | 1 | 1 | 0 | cong. missing/impacted 15,25,45 Anomalies |
| 162 |  |  | 1 | 1 | 1 | 1 | 2 | 1 | 0 |  |
| 163 |  |  | 3 | 3 | 3 | 3 | 3 | 1 | 0 |  |
| 164 |  |  | 2 | 1 | 2 | 2 | 2 | 2 | 0 |  |
| 165 |  |  | 1 | 1 | 1 | 1 | 1 | 0 | 0 |  |
| 166 |  |  | 1 | 0 | 1 | 1 | 1 | 1 | 0 |  |
| 167 |  |  | 1 | 3 | 1 | 1 | 1 | 1 | 0 |  |
| 169 |  |  | 3 | 1 | 2 | 1 | 2 | 1 | 0 |  |
| 170 |  |  | 1 | 1 | 2 | 2 | 1 | 1 | 0 | retained 55 |
| 176 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 | miss.45; retn'd 65 abs.; unerupt'd.25 |
| 177 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 178 |  |  | 3 | 1 | 2 | 1 | 2 | 1 | 0 |  |
| 179 |  |  | 2 | 3 | 2 | 2 | 3 | 2 | 0 |  |
| 180 |  |  | 0 | 0 | 1 | 0 | 1 | 0 | 0 |  |
| 181 |  |  | 0 | 1 | 0 | 1 | 1 | 1 | 0 |  |
| 182 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 35 and 45 submerg. due to insuff space |
| 183 |  |  | 1 | 1 | 1 | 1 | 2 | 2 | 0 |  |
| 184 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 | retn'd 63, 23erupt'd mes. to 63; 22 linguover |
| 185 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 186 |  |  | 1 | 0 | 1 | 1 | 1 | 1 | 0 |  |
| 187 |  |  | 3 | 3 | 3 | 3 | 1 | 1 | 0 |  |
| 188 |  |  | 0 | 0 | 0 | 1 | 1 | 1 | 0 |  |
| 189 |  |  | 1 | 1 | 1 | 1 | 1 | 0 | 0 | retained 55; 15 impacted or missing |


| No. | PLDR | PUDR | 50 | 51 | 52 | 53 | 54 | 55 | 56 | Dentofacial Anomalies |
| :---: | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :--- |
| 190 |  |  | 0 | 1 | 0 | 1 | 1 | 0 | 0 | retained 19 molars and 63 |
| 199 |  |  | 2 | 2 | 2 | 1 | 2 | 2 | 0 |  |
| 200 |  |  | 2 | 1 | 2 | 2 | 2 | 2 | 0 |  |
| 201 |  |  | 2 | 1 | 2 | 2 | 2 | 2 | 0 |  |
| 202 |  |  | 2 | 3 | 2 | 1 | 1 | 1 | 0 |  |
| 203 |  |  | 2 | 3 | 1 | 1 | 1 | 1 | 0 |  |
| 204 |  |  | 2 | 3 | 2 | 2 | 2 | 2 | 0 |  |
| 205 |  |  | 1 | 1 | 1 | 1 | 2 | 1 | 0 | impacted 23 no space |
| 206 |  |  | 1 | 3 | 2 | 1 | 1 | 1 | 0 | submerged 45/insuff space |
| 207 |  |  | 1 | 3 | 1 | 1 | 1 | 1 | 0 |  |
| 208 |  |  | 0 | 0 | 0 | 1 | 0 | 1 | 0 |  |
| 209 |  | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 |  |
| 210 |  |  | 1 | 3 | 1 | 1 | 1 | 1 | 0 |  |
| 211 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 45 linguoversion; 35 submerged |
| 215 |  |  | 2 | 1 | 2 | 2 | 1 | 2 | 0 |  |
| 216 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 217 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 35 submerged/insuff space |
| 218 |  |  | 2 | 1 | 2 | 1 | 1 | 1 | 0 |  |
| 219 |  |  | 1 | 3 | 1 | 1 | 3 | 1 | 0 |  |
| 220 |  |  | 1 | 3 | 1 | 1 | 1 | 1 | 0 | retained 65 impacted 25 |
| 223 |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| 224 |  |  | 2 | 3 | 3 | 1 | 1 | 2 | 0 | 13 linguoversion; retained 53,54,55 |
| 226 |  |  | 1 | 0 | 1 | 0 | 0 | 1 | 0 | retained 53 |
| 227 |  |  | 1 | 1 | 1 | 0 | 1 | 0 | 0 |  |


| No. | Molars | O.J. | O.B. | Crowd. | 61 | 62 | 63 | 64 | X-rays | 18 | 17 | 16 | 15 or55 | 14 or54 | 13 or53 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | 1 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 20 | 00 | 00 | 00 |
| 5 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 11 | 00 | 00 | 00 |
| 6 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | A0/89 |
| 7 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |  | 80 | 00 | 42 | 00 | 00 | 00 |
| 8 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | C0 | 00 | 00 |
| 9 | 2 | 2 | 1 | 1 | 0 | 1 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 10 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 00 | 00 | 00 | 00 |
| 22 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 08 | 00 | 00 |
| 23 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 00 | 00 | 00 | 98 |
| 42 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 12 | 00 | 00 | 00 |
| 56 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 11 | 20 | C8/88 | 00 | 00 |
| 57 | 3 | 3 | 3 | 1 | 1 | 1 | 0 | 0 |  | 80 | 80 | 15 | $B 5 / 00$ | 00 | 00 |
| 58 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 59 | 2 | 2 | 3 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 60 | 3 | 3 | 3 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 50 | 00 | 00 | 00 |
| 61 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 20 | 20 | 00 | 00 | 00 |
| 62 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 63 | 1 | 2 | 3 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 66 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 00 | 00 | 00 | 00 |
| 67 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |  | 80 | 20 | 20 | 20 | 20 | 00 |
| 68 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 80 | 20 | 00 | 00 | 00 |
| 69 | 2 | 3 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 20 | 00 | 00 |
| 70 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 42 | 00 | 00 | 00 |
| 71 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 00 | 00 | 00 | 00 |
| 72 | 2 | 1 | 2 | 1 | 0 | 1 | 0 | 0 |  | 80 | 12 | 12 | 00 | 11 | 00 |
| 73 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 41 | 00 | 00 | 00 |
| 74 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 75 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 11 | 20 | 00 | 11 | 00 |


| No. | Molars | O.J. | O.B. | Crowd. | $\mathbf{6 1}$ | $\mathbf{6 2}$ | $\mathbf{6 3}$ | $\mathbf{6 4}$ | X-rays | $\mathbf{1 8}$ | $\mathbf{1 7}$ | $\mathbf{1 6}$ | 15 or55 | 14 or54 | 13 or53 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 76 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |  | 80 | 12 | 20 | 08 | 00 | 00 |
| 77 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 79 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 80 |  | 2 | 3 | 1 | 0 | 0 | 0 | 0 |  | 80 | 11 | 12 | 00 | 00 | 00 |
| 87 | 1 | 2 | 1 | 1 | 0 | 1 | 0 | 0 |  | 80 | 11 | 20 | 00 | 00 | 11 |
| 88 | 3 | 3 | 3 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 89 | 1 | 3 | 3 | 1 | 0 | 0 | 0 | 0 |  | 80 | 11 | 20 | 00 | 20 | 00 |
| 90 | 3 | 3 | 3 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 31 | 00 | 00 | 00 |
| 91 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 92 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 |  | 80 | 50 | 11 | 00 | 00 | 00 |
| 93 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 104 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 12 | 20 | 20 | 20 | 00 |
| 105 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 106 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 11 | 00 |
| 107 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 11 | 20 | 00 | 00 | 00 |
| 108 | 2 | 2 | 2 | 1 | 1 | 1 | 0 | 0 |  | 80 | 00 | $12 / 9$ | 00 | 11 | 00 |
| 110 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 14 | 00 | 00 |
| 111 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 20 | 20 | 20 |
| 126 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 127 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 80 | 20 | 00 | 00 | 00 |
| 128 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 89 | 00 | 00 |
| 131 | 3 | 3 | 3 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 132 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 133 | 1 | 3 | 3 | 0 | 0 | 0 | 0 | 0 |  | 80 | 20 | 20 | 00 | 00 | 00 |
| 134 | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 80 |
| 135 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 42 | 00 | 00 | 00 |
| 136 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 20 | 20 | 00 | 00 | 80 |
| 137 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |


| No. | Molars | O.J. | O.B. | Crowd. | 61 | 62 | 63 | 64 | X-rays | 18 | 17 | 16 | 15 or55 | 14 or54 | 13 or53 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 138 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 139 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 00 | 00 | 00 | 00 |
| 147 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 148 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 149 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 80 | 20 | 00 | 80 | 00 |
| 161 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 80 | 00 | 00 |
| 162 | 3 | 1 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 11 | 50 | 00 | 00 | 00 |
| 163 | 2 | 2 | 3 | 1 | 0 | 0 | 0 | 0 |  | 80 | 12 | 31 | 00 | 00 | 00 |
| 164 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |  | 80 | 11 | 20 | 00 | 00 | 00 |
| 165 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | 00 | 00 | 00 |
| 166 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 20 | 00 |
| 167 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 00 | 00 | 00 | 00 |
| 169 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 00 | 00 | 00 | 00 |
| 170 | 3 | 3 | 3 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 00 | $A 8 / 80$ | 00 | 00 |
| 176 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 12 | 20 | 00 | 00 | 00 |
| 177 | 1 | 1 | 3 | 1 | 0 | 0 | 0 | 0 |  | 80 | 20 | 00 | 00 | 00 | 00 |
| 178 | 1 | 3 | 3 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 179 | 1 | 3 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 20 | 20 | 00 | 00 | 00 |
| 180 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 20 | 20 | 00 | 00 | 00 |
| 181 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 182 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 183 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 20 | 20 | 00 | 00 | 00 |
| 184 | 3 | 3 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | 00 | 00 | 00 |
| 185 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 186 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 41 | 20 | 00 | 00 | 00 |
| 187 | 2 | 1 | 3 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 80 | 00 |
| 188 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 00 | 00 | 00 | 00 |
| 189 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | $B 8 / 80$ | 00 | 00 |

SWAMPY CREE TRIBAL COUNCIL - 13 YEARS

| No. | Molars | O.J. | O.B. | Crowd. | 61 | 62 | 63 | 64 | X-rays | 18 | 17 | 16 | 15 or55 | 14 or54 | 13 or53 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 190 | 1 | 1 | 2 | 1 | 0 | 1 | 0 | 0 |  | 80 | 80 | 20 | E8/80 | B8/80 | 00 |
| 199 | 1 | 3 | 3 | 0 | 0 | 0 | 0 | 0 |  | 80 | 11 | 20 | 00 | 00 | 00 |
| 200 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 00 | 00 | 00 | 00 |
| 201 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 11 | 00 | 00 | 00 |
| 202 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | AO/80 |
| 203 | 1 | 2 | 3 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 204 | 1 | 1 | 3 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 00 | 00 | 00 | 00 |
| 205 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 42 | 00 | 00 | 00 |
| 206 | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 207 | 1 | 3 | 3 | 0 | 1 | 1 | 1 | 0 |  | 80 | 00 | 15 | 00 | 00 | 00 |
| 208 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 12 | 20 | 41 | 20 | 00 |
| 209 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 11 | 00 | 00 | 00 |
| 210 | 1 | 3 | 3 | 0 | 1 | 1 | 0 | 0 |  | 80 | 12 | 12 | 00 | 11 | 00 |
| 211 | 2 | 2 | 2 | 1 | 0 | 1 | 0 | 0 |  | 80 | 11 | 20 | 13 | 00 | 00 |
| 215 | 1 | 2 | 1 | 1 | 1 | 0 | 0 | 0 |  | 80 | 11 | 20 | 00 | 00 | 00 |
| 216 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 11 | 20 | 00 | 00 | 00 |
| 217 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 20 | 00 |
| 218 | 1 | 2 | 1 | 0 | 0 | 1 | 0 | 1 |  | 80 | 20 | 13 | 00 | 00 | 00 |
| 219 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 31 | 00 | 00 | 00 |
| 220 | 2 | 2 | 3 | 1 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |
| 223 | 3 | 3 | 2 | 1 | 1 | 1 | 0 | 0 |  | 80 | 11 | 45 | 20 | 00 | 00 |
| 224 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |  | 80 | 80 | 00 | $A 5 / 80$ | $A 8 / 80$ | A8/09 |
| 226 | 2 | 2 | 2 | 0 | 0 | 1 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | A8/00 |
| 227 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |  | 80 | 00 | 20 | 00 | 00 | 00 |

SWAMPY CREE TRIBAL COUNCIL - 13 YEARS

| No. | 12 or52 | 11 or51 | 21or61 | 22or62 | 23 or63 | 24 or64 | 25 or65 | 26 | 27 | 28 | 48 | 47 | 46 | 45 or85 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | 00 | 00 | 00 | 00 | 00 | 11 | 00 | 20 | 11 | 80 | 80 | 11 | 12 | 00 |
| 5 | 00 | 00 | 00 | 11 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 11 | 20 | 00 |
| 6 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 00 | 00 |
| 7 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 41 | 20 | 20 |
| 8 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 20 | 00 | 80 | 80 | 31 | 20 | 80 |
| 9 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 11 | 42 | 00 |
| 10 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 00 | 00 | 00 |
| 22 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 00 | 00 |
| 23 | 00 | 00 | 00 | 00 | 98 | 00 | 00 | 00 | 00 | 80 | 80 | 11 | 20 | 00 |
| 42 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 56 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 11 | 80 | 80 | 20 | 20 | 80 |
| 57 | 00 | 00 | 13 | 11 | 89 | 08 | 00 | 15 | 80 | 80 | 80 | 80 | 15 | 00 |
| 58 | 00 | 20 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 12 | 20 | 00 |
| 59 | 00 | 20 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 60 | 20 | 00 | 00 | 20 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 61 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 | 80 | 20 | 20 | 00 |
| 62 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 63 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 66 | 00 | 00 | 59 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 67 | 20 | 00 | 00 | 11 | 00 | 00 | 00 | 20 | 31 | 80 | 80 | 11 | 20 | 00 |
| 68 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 80 | 80 | 80 | 00 | 00 | 00 |
| 69 | 20 | 00 | 00 | 20 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 70 | 00 | 00 | 00 | 20 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 11 | 43 | 00 |
| 71 | 00 | 00 | 00 | 00 | $A 8 / 00$ | 00 | 00 | 00 | 00 | 80 | 80 | 00 | 00 | 00 |
| 72 | 11 | 11 | 00 | 11 | 00 | 00 | 00 | 12 | 12 | 80 | 80 | 12 | 50 | 12 |
| 73 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 74 | 00 | 12 | 12 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 00 | 20 | 00 |
| 75 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 12 | 31 | 00 |


| No. | 12 or52 | 11 or51 | 21or61 | 22 or62 | 23 or63 | 24 or64 | 25 or65 | 26 | 27 | 28 | 48 | 47 | 46 | 45 or85 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 76 | 00 | 00 | 98 | 11 | 00 | 00 | 88 | 20 | 11 | 80 | 80 | 11 | 20 | 00 |
| 77 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 20 | 20 | 00 |
| 79 | 00 | 20 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 00 | 00 | 00 |
| 80 | 00 | 89 | 00 | 00 | 00 | 00 | 00 | 00 | 12 | 80 | 80 | 00 | 12 | 00 |
| 87 | 11 | 11 | 11 | 00 | 00 | 00 | 20 | 20 | 12 | 80 | 80 | 12 | 20 | 00 |
| 88 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 89 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 20 | 00 | 80 | 80 | 12 | 20 | 00 |
| 90 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 91 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 20 | 20 | 20 |
| 92 | 00 | 00 | 00 | 00 | 11 | 00 | 20 | 20 | 20 | 80 | 80 | 20 | 20 | 00 |
| 93 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 104 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 12 | 11 | 80 | 80 | 12 | 12 | 00 |
| 105 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 11 | 80 | 80 | 11 | 20 | 00 |
| 106 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 11 | 80 | 80 | 12 | 20 | 00 |
| 107 | 20 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 | 80 | 00 | 20 | 00 |
| 108 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 15 | 12 | 80 | 80 | 20 | 50 | 20 |
| 110 | 00 | 00 | 00 | 00 | 00 | 00 | 12 | 20 | 00 | 80 | 80 | 12 | 20 | 13 |
| 111 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 50 | 00 | 80 | 80 | 00 | 20 | 00 |
| 126 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 11 | 20 | 00 |
| 127 | 00 | 00 | 00 | 00 | 80 | 00 | $A 0$ | 00 | 80 | 80 | 80 | 00 | 20 | $C 0$ |
| 128 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 131 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 132 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 133 | 00 | 00 | 11 | 00 | 00 | 00 | 00 | 20 | 11 | 80 | 80 | 20 | 20 | 00 |
| 134 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 135 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 00 | 20 | 00 |
| 136 | 00 | 00 | 00 | 00 | 80 | 00 | 00 | 00 | 20 | 80 | 80 | 00 | 20 | 00 |
| 137 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 20 | 00 | 80 | 80 | 12 | 20 | 20 |


| No. | 12 or52 | 11 or51 | 21 or61 | 22or62 | 23 or63 | 24 or64 | 25 or65 | 26 | 27 | 28 | 48 | 47 | 46 | 45 or85 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 138 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 20 | 20 | 00 |
| 139 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 00 | 00 | 00 |
| 147 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 | 80 | 00 | 20 | 00 |
| 148 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 149 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 161 | 00 | 00 | 00 | 00 | 00 | 20 | 80 | 20 | 80 | 80 | 80 | 00 | 20 | 80 |
| 162 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 50 | 11 | 80 | 80 | 00 | 20 | 00 |
| 163 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 00 | 80 | 80 | 12 | 20 | 00 |
| 164 | 00 | 00 | 00 | 11 | 00 | 00 | 13 | 13 | 11 | 80 | 80 | 31 | 32 | 11 |
| 165 | 00 | 00 | 00 | 00 | 00 | 00 | $B 2$ | 20 | 80 | 80 | 80 | 80 | 20 | $A 0$ |
| 166 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 11 | 20 | 00 |
| 167 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 00 | 31 | 00 |
| 169 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 42 | 00 | 80 | 80 | 20 | 20 | 00 |
| 170 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 00 | 00 | 00 |
| 176 | 20 | 00 | 00 | 20 | 20 | 20 | $C 8 / 80$ | 20 | 00 | 80 | 80 | 12 | 20 | 88 |
| 177 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 20 | 20 | 80 | 80 | 20 | 20 | 00 |
| 178 | 00 | 00 | 50 | 00 | 00 | 20 | 00 | 00 | 00 | 80 | 80 | 00 | 20 | 00 |
| 179 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 20 | 20 | 80 | 80 | 20 | 20 | 00 |
| 180 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 | 80 | 20 | 20 | 00 |
| 181 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 20 | 20 | 00 |
| 182 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 11 | 20 | 09 |
| 183 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 184 | 00 | 00 | 00 | 00 | $A 0 / 00$ | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 185 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 186 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 | 80 | 20 | 20 | 00 |
| 187 | 00 | 00 | 00 | 00 | 00 | 80 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 188 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 11 | 20 | 00 |
| 189 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 80 | 00 | 20 | 00 |


| No. | 12 or52 | 11 or51 | 21or61 | 22or62 | 23 or63 | 24 or64 | 25 or65 | 26 | 27 | 28 | 48 | 47 | 46 | 45 or85 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 190 | 00 | 00 | 00 | 00 | A8/00 | B8/00 | C8/80 | 20 | 80 | 80 | 80 | 80 | 20 | A8/80 |
| 199 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 11 | 00 |
| 200 | 00 | 00 | 00 | 00 | 00 | 11 | 00 | 00 | 00 | 80 | 80 | 11 | 00 | 00 |
| 201 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 00 | 80 | 80 | 00 | 20 | 00 |
| 202 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 00 | 80 | 80 | 00 | 50 | 11 |
| 203 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 12 | 50 | 00 |
| 204 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 80 | 80 | 11 | 00 | 00 |
| 205 | 00 | 00 | 00 | 00 | 80 | 00 | 00 | 00 | 00 | 80 | 80 | 12 | 00 | 00 |
| 206 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 207 | 11 | 13 | 12 | 00 | 00 | 00 | 00 | 15 | 00 | 80 | 80 | 12 | 20 | 00 |
| 208 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 20 | 12 | 80 | 80 | 20 | 20 | 00 |
| 209 | 00 | 00 | 00 | 00 | 00 | 59 | 00 | 00 | 11 | 80 | 80 | 20 | 20 | 00 |
| 210 | 11 | 00 | 12 | 13 | 00 | 13 | 15 | 15 | 12 | 80 | 80 | 12 | 15 | 00 |
| 211 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 00 | 20 | 00 |
| 215 | 11 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 12 | 80 | 80 | 20 | 12 | 20 |
| 216 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 12 | 20 | 00 |
| 217 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 11 | 80 | 80 | 11 | 20 | 00 |
| 218 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 13 | 00 | 80 | 80 | 00 | 20 | 00 |
| 219 | 00 | 11 | 11 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 00 | 20 | 00 |
| 220 | 00 | 00 | 00 | 00 | 00 | 00 | $A 8 / 80$ | 00 | 00 | 80 | 80 | 80 | 00 | 00 |
| 223 | 00 | 00 | 12 | 12 | 00 | 00 | 20 | 50 | 11 | 80 | 80 | 11 | 50 | 00 |
| 224 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 00 | 00 | 00 |
| 226 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 | 80 | 11 | 12 | 00 |
| 227 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 | 80 | 20 | 20 | 00 |

SWAMPY CREE TRIBAL COUNCIL - 13 YEARS
Page 24

| No. | 44 or84 | 43or83 | 42or82 | 41 or81 | 31 or71 | 32 or72 | 33or73 | 34 or74 | 35 or75 | 36 | 37 | 38 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 12 | 11 | 80 |
| 5 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 11 | 80 |
| 6 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 |
| 7 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 31 | 80 |
| 8 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 20 | 12 | 80 |
| 9 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | $A 8$ | 20 | 11 | 80 |
| 10 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 |
| 22 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 23 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 42 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 56 | 00 | 00 | 80 | 00 | 00 | 00 | 00 | 00 | 80 | 20 | 20 | 80 |
| 57 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 15 | 11 | 80 |
| 58 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 11 | 80 |
| 59 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 59 | 59 | 20 | 00 | 80 |
| 60 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 50 | 20 | 80 |
| 61 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 50 | 20 | 80 |
| 62 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 63 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 11 | 80 |
| 66 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 67 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 11 | 80 |
| 68 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 69 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 70 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 11 | 80 |
| 71 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 |
| 72 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 50 | 12 | 80 |
| 73 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 74 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 |
| 75 | 80 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 00 | 20 | 00 | 80 |


| No. | 44or84 | 43 or83 | 42 or82 | 41or81 | 31 or71 | 32 or72 | 33 or73 | 34 or74 | 35 or75 | 36 | 37 | 38 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 76 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 77 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 79 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 12 | 80 |
| 80 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 |
| 87 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 12 | 80 |
| 88 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 20 | 00 | 80 |
| 89 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 |
| 90 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 12 | 80 |
| 91 | 20 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 20 | 20 | 80 |
| 92 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 20 | 80 |
| 93 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 11 | 80 |
| 104 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 20 | 20 | 80 |
| 105 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 11 | 80 |
| 106 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 12 | 80 |
| 107 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 108 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 12 | 12 | 80 |
| 110 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 |
| 111 | 00 | 80 | 50 | 00 | 50 | 00 | 00 | 50 | 20 | 50 | 00 | 80 |
| 126 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 127 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 128 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 131 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 42 | 00 | 80 |
| 132 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 40 | 20 | 00 | 80 |
| 133 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 20 | 20 | 80 |
| 134 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 135 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 136 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 80 |
| 137 | 00 | 80 | 00 | 00 | 00 | 00 | 80 | 00 | 00 | 12 | 12 | 80 |

SWAMPY CREE TRIBAL COUNCIL - 13 YEARS Page 26

| No. | 44or84 | 43or83 | 42or82 | 41or81 | 31 or71 | 32 or72 | 33or73 | 34 or74 | 35 or75 | 36 | 37 | 38 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 138 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 139 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 |
| 147 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 |
| 148 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 149 | 80 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 161 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 31 | 00 | 80 |
| 162 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 |
| 163 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 50 | 12 | 80 |
| 164 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 31 | 80 |
| 165 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | $B 2$ | 20 | 80 | 80 |
| 166 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 11 | 80 |
| 167 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 12 | 80 |
| 169 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 170 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 |
| 176 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 |
| 177 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 |
| 178 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 |
| 179 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 |
| 180 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 |
| 181 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 |
| 182 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 11 | 80 |
| 183 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 41 | 00 | 80 |
| 184 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 185 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 186 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 |
| 187 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 188 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 11 | 80 |
| 189 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 80 | 80 |


| No. | 44 or84 | 43or83 | 42or82 | 41or81 | 31 or71 | 32or72 | 33 or73 | 34 or74 | 35or75 | 36 | 37 | 38 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 190 | A8/80 | 00 | 00 | 00 | 00 | 00 | 00 | $A 8 / 80$ | A8/80 | 20 | 80 | 80 |
| 199 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 200 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 |
| 201 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 42 | 00 | 80 |
| 202 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 50 | 11 | 80 |
| 203 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 |
| 204 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 11 | 80 |
| 205 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 12 | 80 |
| 206 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 00 | 20 | 80 | 80 |
| 207 | 11 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 14 | 12 | 80 |
| 208 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 50 | 12 | 80 |
| 209 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 12 | 80 |
| 210 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 50 | 12 | 80 |
| 211 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 |
| 215 | 20 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 12 | 80 |
| 216 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 |
| 217 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 |
| 218 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 50 | 20 | 80 |
| 219 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 11 | 80 |
| 220 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 00 | 80 |
| 223 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 15 | 15 | 80 |
| 224 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 |
| 226 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 11 | 80 |
| 227 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 20 | 20 | 80 |

SWAMPY CREE TRIBAL COUNCIL - 13 YEARS

## APPENDIX D

## Original Data

MCDP - 6-year-olds

| No. | School | Sex | D.O.B. | Init.Exam | Init.Age | 34 | Specify | Treatment | 35 | Specify | Tx. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 701 | BA | F | 9/3/81 | 3/18/88 | 6.5380 | 2 |  | preventive | 1 | fluorosis |  |
| 702 | BA | F | 12/22/81 | 3/24/88 | 6.2533 | 2 |  | preventive |  |  |  |
| 703 | BA | M | 9/6/81 | 3/18/88 | 6.5298 | 2 |  | preventive |  |  |  |
| 704 | BR | F | 12/31/81 | 9/29/87 | 5.7440 | 0 | O.H. good | - |  |  |  |
| 705 | BR | M | 11/26/81 | 10/24/88 | 6.9103 | 2 |  | preventive |  |  |  |
| 706 | BR | M | 11/3/81 | 10/14/87 | 5.9439 | 2 |  | preventive |  |  |  |
| 707 | BR | M | 9/15/81 | 10/13/87 | 6.0753 | 2 |  | preventive |  |  |  |
| 708 | BR | F | 3/16/81 | 10/14/87 | 6.5791 | 2 |  | preventive |  |  |  |
| 709 | BR | M | 2/7/81 | 10/14/87 | 6.6804 | 2 |  | preventive |  |  |  |
| 710 | BR | M | 10/25/81 | 10/14/87 | 5.9685 | 2 |  | preventive |  |  |  |
| 711 | BR | F | 1/13/81 | 3/3/87 | 6.1328 | 2 |  | preventive |  |  |  |
| 712 | BR | F | 12/5/81 | 10/13/87 | 5.8535 | 0 |  | - | 1 | 16,26 Hypoplastic |  |
| 713 | BR | M | 11/12/81 | 9/23/88 | 6.8638 | 2 |  | preventive |  |  |  |
| 714 | BR | M | 7/8/81 | 10/14/87 | 6.2669 | 2 |  | preventive |  |  |  |
| 715 | BR | M | 5/31/81 | 4/8/88 | 6.8556 | 0 |  | - |  |  |  |
| 716 | BR | F | 10/3/81 | 10/13/87 | 6.0260 | 0 |  | - |  |  |  |
| 717 | BR | F | 12/28/81 | 10/13/87 | 5.7906 | 2 |  | preventive |  |  |  |
| 718 | BR | F | 1/19/81 | 10/13/87 | 6.7296 | 2 |  | preventive |  |  |  |
| 719 | BR | F | 5/23/81 | 10/15/87 | 6.3956 | 2 |  | preventive |  |  |  |
| 720 | BR | M | 3/18/81 | 10/14/87 | 6.5736 | 2 |  | preventive |  |  |  |
| 721 | BR | M | 2/12/81 | 10/14/87 | 6.6667 | 2 |  | preventive |  |  |  |
| 722 | CO | F | 6/25/81 | 10/13/87 | 6.2998 | 0 |  |  |  |  |  |
| 723 | CO | M | 7/9/81 | 10/28/87 | 6.3025 | 2 |  | preventive |  |  |  |
| 724 | CO | F | 3/2/81 | 10/29/87 | 6.6585 | 2 |  | preventive |  |  |  |
| 725 | CO | M | 9/8/81 | 9/23/88 | 7.0418 | 2 |  | preventive |  |  |  |
| 726 | CO | M | 9/9/81 | 10/27/87 | 6.1300 | 2 |  | preventive |  |  |  |
| 727 | CO | M | 8/16/81 | 10/27/87 | 6.1958 | 2 |  | preventive |  |  |  |
| 728 | CO | F | 7/6/81 | 10/28/87 | 6.3107 | 2 |  | preventive |  |  |  |
| 729 | JL | M | 1/27/81 | 1/18/88 | 6.9733 | 2 |  | preventive |  |  |  |


| No. | School | Sex | D.O.B. | Init.Exam | Init.Age | 34 | Specify | Treatment | 35 | Specify | Tx. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 730 | MA | F | 2/7/81 | 9/9/87 | 6.5845 | 2 | O.H. poor | preventive |  |  |  |
| 731 | MA | M | 4/9/81 | 9/9/87 | 6.4175 | 0 | O.H. poor | - |  |  |  |
| 732 | MA | M | 10/2/80 | 9/3/86 | 5.9192 | 0 | O.H. good | - |  |  |  |
| 733 | MA | M | 1/1/81 | 9/9/87 | 6.6858 | 0 | O.H. fair | - |  |  |  |
| 734 | PD | M | 9/29/81 | 9/9/87 | 5.9439 | 2 | O.H. good | preventive |  |  |  |
| 735 | PD | M | 7/10/81 | 9/9/87 | 6.1656 | 0 | O.H. good | - |  |  |  |
| 736 | PD | M | 11/27/81 | 9/9/87 | 5.7823 | 0 | O.H. fair | - |  |  |  |
| 737 | SA | F | 9/29/81 | 9/20/88 | 6.9760 | 2 |  | preventive |  |  |  |
| 738 | SA | M | 5/12/81 | 9/15/87 | 6.3436 | 2 | O.H. good | preventive |  |  |  |
| 739 | SA | M | 1/20/81 | 9/15/87 | 6.6502 | 2 | O.H.good | preventive |  |  |  |
| 740 | TP | M | 2/12/81 | 1/22/88 | 6.9405 | 2 |  | preventive |  |  |  |
| 741 | TP | F | 12/7/81 | 1/22/88 | 6.1246 | 2 |  | preventive |  |  |  |
| 742 | TP | M | 6/20/81 | 1/22/88 | 6.5900 | 2 |  | preventive |  |  |  |
| 743 | TP | M | 2/17/81 | 1/22/88 | 6.9268 | 2 |  | preventive |  |  |  |
| 744 | TP | F | 2/8/81 | 1/22/88 | 6.9514 | 2 |  | preventive |  |  |  |
| 745 | WA | M | 5/17/81 | 2/17/88 | 6.7543 | 2 | O.H. fair | preventive |  |  |  |
| 746 | WA | F | 11/17/81 | 2/17/88 | 6.2505 | 2 | O.H. fair | preventive |  |  |  |
| 747 | WA | F | 7/3/81 | 2/17/88 | 6.6256 | 2 | O.H. poor | preventive |  |  |  |
| 748 | WA | F | 5/2/81 | 2/17/88 | 6.7953 | 2 |  | preventive |  |  |  |
| 749 | WA | M | 10/3/81 | 2/17/88 | 6.3737 | 2 | O.H. poor | preventive |  |  |  |
| 750 | WA | M | 8/11/81 | 2/17/88 | 6.5188 | 2 | O.H.poor | preventive |  |  |  |
| 751 | WA | M | 2/25/81 | 2/17/88 | 6.9760 | 2 | O.H. poor | preventive |  |  |  |
| 752 | WN | M | 7/10/81 | 9/23/87 | 6.2040 | 2 | O.H. fair | preventive |  |  |  |
| 753 | WN | F | 5/5/81 | 9/14/87 | 6.3600 | 2 |  | preventive |  |  |  |
| 754 | WN | M | 11/4/81 | 9/23/87 | 5.8836 | 2 | O.H. poor | preventive |  |  |  |
| 755 | WN | F | 5/25/81 | 9/14/87 | 6.3053 | 2 | OH. poor | preventive |  |  |  |
| 756 | WN | M | 1/16/81 | 9/14/87 | 6.6585 | 2 | O.H. fair | preventive | 1 | Geminat'n-Cong. Miss. |  |
| 757 | WN | M | 3/26/81 | 9/29/87 | 6.5106 | 2 | O.H. fair | preventive |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |


| No. | School | Sex | D.0.B. | Init.Exam | Init.Age | 34 | Specify | Treatment | 35 | Specify | Tx. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 801 | BA | F | 1/6/82 | 2/21/89 | 7.1266 | 2 |  | preventive | 1 | 6's hypoplastic |  |
| 802 | BA | F | 9/7/82 | 5/10/89 | 6.6721 | 2 |  | preventive |  |  |  |
| 803 | BA | F | 8/13/82 | 4/26/89 | 6.7023 | 2 |  | preventive | 1 | 36 hypoplastic |  |
| 804 | BR | M | 1/10/82 | 1/25/89 | 7.0418 | 2 |  | preventive |  |  |  |
| 805 | BR | F | 3/12/82 | 1/25/89 | 6.8747 | 2 |  | preventive |  |  |  |
| 806 | BR | F | 7/4/82 | 9/22/88 | 6.2204 | 2 |  | preventive |  |  |  |
| 807 | BR | F | 7/8/82 | 9/23/88 | 6.2122 | 2 |  | preventive |  |  |  |
| 808 | BR | M | 9/22/82 | 9/23/88 | 6.0041 | 2 |  | preventive |  |  |  |
| 809 | BR | M | 3/16/82 | 9/22/88 | 6.5216 | 2 |  | preventive |  |  |  |
| 810 | BR | M | 2/16/82 | 9/23/88 | 6.6010 | 0 |  | - |  |  |  |
| 811 | BR | F | 12/30/82 | 10/24/88 | 5.8179 | 0 |  | - |  |  |  |
| 812 | BR | M | 10/10/82 | 9/23/88 | 5.9548 | 2 |  | preventive |  |  |  |
| 813 | BR | M | 4/29/82 | 9/23/88 | 6.4038 | 2 |  | preventive |  |  |  |
| 814 | BR | F | 9/25/82 | 9/22/88 | 5.9932 | 2 |  | preventive |  |  |  |
| 815 | BR | M | 12/1/82 | 9/23/88 | 5.8125 | 2 |  | preventive |  |  |  |
| 816 | BR | M | 12/24/82 | 9/23/88 | 5.7495 | 0 |  | - |  |  |  |
| 817 | BR | F | 12/24/82 | 9/23/88 | 5.7495 | 0 |  | - |  |  |  |
| 818 | BR | M | 5/10/82 | 10/24/88 | 6.4586 | 0 |  | - |  |  |  |
| 819 | BR | F | 11/13/82 | 10/24/88 | 5.9466 | 2 |  | preventive |  |  |  |
| 820 | BR | F | 8/20/82 | 9/23/88 | 6.0945 | 2 |  | preventive |  |  |  |
| 821 | BR | F | 6/18/82 | 9/22/88 | 6.2642 | 2 |  | preventive |  |  |  |
| 822 | BR | F | 2/27/82 | 9/23/88 | 6.5708 | 2 |  | preventive |  |  |  |
| 823 | BR | F | 1/23/82 | 10/24/88 | 6.7515 | 2 |  | preventive |  |  |  |
| 824 | BR | M | 10/1/82 | 9/23/88 | 5.9795 | 2 |  | preventive |  |  |  |
| 825 | BR | F | 9/9/82 | 10/26/88 | 6.1300 | 2 |  | preventive |  |  |  |
| 826 | BR | M | 11/3/82 | 11/6/89 | 7.0089 | 2 |  | preventive |  |  |  |
| 827 | BR | F | 7/24/82 | 9/23/88 | 6.1684 | 2 |  | preventive |  |  |  |
| 828 | BR | M | 12/11/82 | 9/23/88 | 5.7851 | 2 |  | preventive |  |  |  |
| 829 | CO | M | 6/22/82 | 9/22/88 | 6.2533 | 2 |  | preventive |  |  |  |


| No. | School | Sex | D.O.B. | Init.Exam | Init.Age | 34 | Specify | Treatment | 35 | Specify | Tx. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 830 | CO | M | 2/24/82 | 9/22/88 | 6.5763 | 2 |  | preventive |  |  |  |
| 831 | CO | F | 3/25/82 | 12/2/88 | 6.6913 | 0 |  | - |  |  |  |
| 832 | CO | M | 2/14/82 | 9/22/88 | 6.6037 | 2 |  | preventive |  |  |  |
| 833 | CO | M | 6/9/82 | 9/22/88 | 6.2888 | 2 |  | preventive |  |  |  |
| 834 | CO | M | 1/29/82 | 9/23/88 | 6.6502 | 2 |  | preventive |  |  |  |
| 835 | JL | M | 2/1/82 | 1/23/89 | 6.9760 | 2 |  | preventive |  |  |  |
| 836 | JL | M | 2/22/82 | 1/23/89 | 6.9185 | 2 |  | preventive |  |  |  |
| 837 | MA | F | 6/3/82 | 8/25/88 | 6.2286 | 2 |  | preventive |  |  |  |
| 838 | PD | F | 9/29/82 | 8/25/88 | 5.9055 | 2 |  | preventive |  |  |  |
| 839 | PD | M | 1/28/82 | 8/25/88 | 6.5736 | 2 |  | preventive |  |  |  |
| 840 | PK | M | 7/8/82 | 1/25/89 | 6.5517 | 2 |  | preventive |  |  |  |
| 841 | PK | F | 3/17/82 | 1/24/89 | 6.8583 | 2 |  | preventive |  |  |  |
| 842 | PK | M | 2/26/82 | 1/24/89 | 6.9103 | 2 |  | preventive |  |  |  |
| 843 | PK | M | 5/24/82 | 1/25/89 | 6.6749 | 2 |  | preventive |  |  |  |
| 844 | SA | M | 8/3/82 | 9/20/88 | 6.1328 | 2 |  | preventive |  |  |  |
| 845 | SA | M | 3/16/82 | 9/20/88 | 6.5161 | 2 |  | preventive |  |  |  |
| 846 | SA | M | 4/13/82 | 9/20/88 | 6.4394 | 2 |  | preventive |  |  |  |
| 847 | TP | M | 4/10/82 | 1/27/89 | 6.8008 | 2 |  | preventive |  |  |  |
| 848 | TP | F | 7/7/82 | 1/27/89 | 6.5599 | 2 |  | preventive |  |  |  |
| 849 | TP | M | 10/27/82 | 1/27/89 | 6.2533 | 2 |  | preventive |  |  |  |
| 850 | WA | F | 7/8/82 | 2/21/89 | 6.6256 | 2 |  | preventive |  |  |  |
| 851 | WA | F | 9/7/82 | 2/21/89 | 6.4586 | 2 |  | preventive |  |  |  |
| 852 | WA | M | 4/4/82 | 2/21/89 | 6.8857 | 2 |  | preventive |  |  |  |
| 853 | WA | F | 3/13/82 | 2/22/89 | 6.9487 | 2 | O.H. poor | preventive |  |  |  |
| 854 | WA | M | 1/25/82 | 2/21/89 | 7.0746 | 2 |  | preventive |  |  |  |
| 855 | WA | F | 5/3/82 | 2/21/89 | 6.8063 | 2 |  | preventive | 1 | gen. mottling |  |
| 856 | WA | M | 12/7/82 | 2/21/89 | 6.2094 | 2 |  | preventive |  |  |  |
| 857 | WA | F | 1/24/82 | 2/21/89 | 7.0773 | 2 |  | preventive |  |  |  |
| 858 | WA | F | 2/17/82 | 2/21/89 | 7.0116 | 2 |  | preventive |  |  |  |


| No. | School | Sex | D.O.B. | Init.Exam | Init.Age | 34 | Specify | Treatment | 35 | Specify | Tx. |
| :---: | :---: | :---: | ---: | ---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 859 | WA | F | $6 / 12 / 82$ | $2 / 21 / 89$ | 6.6968 | 2 |  | preventive |  |  |  |
| 860 | WA | M | $9 / 22 / 82$ | $2 / 22 / 89$ | 6.4203 | 2 | $0 . H$. fair | preventive |  |  |  |
| 861 | WA | F | $6 / 29 / 82$ | $2 / 21 / 89$ | 6.6502 | 2 |  | preventive |  |  |  |
| 862 | WN | M | $3 / 10 / 82$ | $9 / 30 / 88$ | 6.5599 | 0 |  | - | 1 | Supernum.11-21 | ext'n |
| 863 | WN | M | $3 / 23 / 82$ | $9 / 9 / 88$ | 6.4668 | 2 |  | preventive | 1 | Supernum.11-21 | ext'n |
| 864 | WN | M | $9 / 20 / 82$ | $9 / 20 / 89$ | 7.0007 | 0 |  | - |  |  |  |
| 865 | WN | M | $10 / 2 / 82$ | $9 / 30 / 88$ | 5.9959 | 2 |  | preventive |  |  |  |
| 866 | WN | F | $7 / 18 / 82$ | $9 / 13 / 88$ | 6.1574 | 0 |  | - |  |  |  |
| 867 | WN | M | $10 / 9 / 82$ | $9 / 20 / 89$ | 6.9487 | 2 |  | preventive |  |  |  |
| 868 | WN | F | $10 / 14 / 82$ | $9 / 9 / 88$ | 5.9055 | 2 |  | preventive |  |  |  |
| 869 | WN | F | $9 / 6 / 82$ | $9 / 13 / 88$ | 6.0205 | 0 |  | - |  |  |  |
| 870 | WN | M | $8 / 21 / 82$ | $9 / 20 / 89$ | 7.0828 | 2 |  | preventive |  |  |  |
| 871 | WN | M | $12 / 5 / 82$ | $9 / 20 / 89$ | 6.7926 | 0 |  | - |  |  |  |
| 872 | WN | M | $10 / 20 / 82$ | $9 / 9 / 88$ | 5.8891 | 0 |  | - |  |  |  |
| 873 | WN | F | $6 / 18 / 82$ | $9 / 9 / 88$ | 6.2286 | 0 |  | - |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 901 | MA | F | $3 / 17 / 84$ | $6 / 14 / 90$ | 6.2423 | 2 |  | preventive |  |  |  |
| 902 | MA | M | $1 / 15 / 84$ | $6 / 14 / 90$ | 6.4120 | 2 |  | preventive |  |  |  |
| 903 | MA | M | $4 / 3 / 84$ | $6 / 14 / 90$ | 6.1958 | 0 |  | - |  |  |  |
| 904 | PD | F | $9 / 1 / 83$ | $5 / 2 / 90$ | 6.6667 | 0 |  | - |  |  |  |
| 905 | PD | M | $10 / 3 / 83$ | $5 / 2 / 90$ | 6.5791 | 0 |  | - | - | 1 | severe hypocalc'n |
| 906 | PK | M | $4 / 22 / 83$ | $1 / 26 / 90$ | 6.7652 | 2 |  | rest've |  |  |  |
| 907 | PK | M | $12 / 31 / 83$ | $1 / 26 / 90$ | 6.0726 | 0 |  |  | - |  |  |


| No. | 36 | Specify | Tx. | 37 | Fl | PUD | PUD | PLDR | PUDR | 56 | Dentofacial Anomalies |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 701 |  |  |  |  | 1 |  |  |  |  | 1 | 32 linguoversion |
| 702 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 703 |  |  |  |  | 1 |  |  |  | 1 | 0 |  |
| 704 |  |  |  |  |  |  |  |  |  | 0 |  |
| 705 |  |  |  |  |  |  |  |  |  | 0 |  |
| 706 |  |  |  |  |  |  |  |  |  | 0 |  |
| 707 |  |  |  |  |  |  |  | 1 |  | 0 |  |
| 708 |  |  |  |  |  |  |  |  |  | 0 |  |
| 709 |  |  |  |  |  |  |  |  |  | 0 |  |
| 710 |  |  |  |  |  |  |  |  |  | 0 |  |
| 711 |  |  |  |  |  |  |  |  |  | 0 |  |
| 712 |  |  |  |  |  |  | 1 | 1 |  | 0 |  |
| 713 |  |  |  |  |  |  |  |  |  | 0 | Ant. openbite |
| 714 |  |  |  |  |  |  |  |  |  | 1 | Midline shift $4 \mathrm{~mm} . \mathrm{R}$ |
| 715 |  |  |  |  |  |  |  | 2 |  | 0 |  |
| 716 |  |  |  |  |  |  |  |  |  | 0 |  |
| 717 |  |  |  |  |  |  |  |  |  | 0 |  |
| 718 |  |  |  |  |  |  |  | 1 | 1 | 2 | 16/46 x-bite; space loss |
| 719 |  |  |  |  |  |  |  | 1 | 1 | 1 | Midline shift 3mm. R |
| 720 |  |  |  |  |  |  |  |  |  | 0 |  |
| 721 |  |  |  |  |  |  |  |  |  | 0 |  |
| 722 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 723 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 724 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 725 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 726 |  |  |  |  |  |  |  |  |  | 1 | Ant. crowding |
| 727 |  |  |  |  | 1 |  |  | 1 | 1 | 0 |  |
| 728 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 729 |  |  |  |  | 1 |  |  |  |  | 0 |  |


| No. | 36 | Specify | Tx. | 37 | FI | PUD | PUD | PLDR | PUDR | 56 | Dentofacial Anomalies |
| :---: | :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 730 |  |  |  |  |  |  |  | 1 | 1 | 1 | Space loss 54, 55 |
| 731 |  |  |  |  |  |  | 1 | 1 |  | 1 | x-bite $52 / 82,62 / 72$ |
| 732 |  |  |  |  |  |  |  |  |  | 0 |  |
| 733 |  |  |  |  |  |  |  |  |  | 0 |  |
| 734 |  |  |  |  |  |  |  |  |  | 0 |  |
| 735 |  |  |  |  |  |  |  |  |  | 0 |  |
| 736 |  |  |  |  |  |  |  |  | 1 | 0 |  |
| 737 |  |  |  |  |  |  |  |  |  | 1 | $11-21$ diastema 3 mm. |
| 738 |  |  |  |  |  |  |  |  |  | 1 | Ant. openbite |
| 739 |  |  |  |  |  |  |  |  |  | 0 |  |
| 740 |  |  |  |  | 1 |  |  |  |  | 1 | Ant.openbite, crowd.low.ant's |
| 741 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 742 |  |  |  |  | 1 |  |  |  |  | 2 | 16 x-bite |
| 743 |  |  |  |  |  |  |  |  |  | 0 |  |
| 744 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 745 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 746 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 747 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 748 |  |  |  |  | 1 |  |  |  |  | 1 | Space loss 54, 64 |
| 749 |  |  |  |  | 1 |  |  |  |  | 2 | 36 x-bite |
| 750 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 751 |  |  |  |  | 1 |  |  |  |  | 1 | Space loss |
| 752 |  |  |  |  | 0 |  |  | 1 |  | 1 | Space loss-75,85 |
| 753 |  |  |  |  | 1 |  |  |  |  | 1 | Thumb sucking habit |
| 754 |  |  |  |  | 1 |  |  |  | 1 | 0 |  |
| 755 |  |  |  |  |  |  |  |  | 0 |  |  |
| 756 |  |  |  |  |  |  |  |  |  | 1 | $31,32,41,42$ Cong. Missing |
| 757 |  |  |  |  |  |  |  |  |  | 2 | $x$ |
|  |  |  |  |  |  |  |  |  |  |  |  |


| No. | 36 | Specify | Tx. | 37 | Fl | PUD | PUD | PLDR | PUDR | 56 | Dentofacial Anomalies |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 801 |  |  |  |  | 1 |  |  | 1 |  | 0 |  |
| 802 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 803 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 804 |  |  |  |  |  |  |  |  |  | 0 |  |
| 805 |  |  |  |  |  |  |  | 1 | 1 | 0 |  |
| 806 |  |  |  |  |  |  |  |  |  | 0 |  |
| 807 |  |  |  |  |  |  |  | 1 | 1 | 0 |  |
| 808 |  |  |  |  |  |  |  |  |  | 0 |  |
| 809 |  |  |  |  |  |  |  |  |  | 0 |  |
| 810 |  |  |  |  |  |  |  |  |  | 0 |  |
| 811 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 812 |  |  |  |  |  |  |  |  |  | 0 |  |
| 813 |  |  |  |  |  |  |  |  |  | 0 |  |
| 814 |  |  |  |  |  |  |  |  |  | 0 |  |
| 815 |  |  |  |  |  |  |  |  |  | 0 |  |
| 816 |  |  |  |  |  |  |  | 1 |  | 2 | Post. R. x-bite |
| 817 |  |  |  |  |  |  |  |  |  | 0 |  |
| 818 |  |  |  |  |  |  |  |  |  | 0 |  |
| 819 |  |  |  |  |  | 1 |  | 1 | 1 | 0 |  |
| 820 |  |  |  |  |  |  |  |  |  | 0 |  |
| 821 |  |  |  |  |  |  |  |  |  | 0 |  |
| 822 |  |  |  |  |  | 1 |  |  |  | 0 |  |
| 823 |  |  |  |  |  |  |  | 1 |  | 0 |  |
| 824 |  |  |  |  |  |  |  |  |  | 0 |  |
| 825 |  |  |  |  | 1 |  |  | 1 |  | 0 |  |
| 826 |  |  |  |  |  |  |  |  |  | 1 | Space loss U.L. |
| 827 |  |  |  |  |  |  |  | 1 |  | 0 |  |
| 828 |  |  |  |  |  |  |  |  |  | 0 |  |
| 829 |  |  |  |  | 1 |  |  |  |  | 0 |  |


| No. | 36 | Specify | Tx. | 37 | FI | PUD | PUD | PLDR | PUDR | 56 | Dentofacial Anomalies |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 830 |  |  |  |  | 1 |  |  |  | 1 | 0 |  |
| 831 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 832 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 833 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 834 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 835 |  |  |  |  |  |  |  |  |  | 2 | x-bite-55-51,61,62 |
| 836 |  |  |  |  |  |  |  |  |  | 0 |  |
| 837 |  |  |  |  |  |  |  | 1 |  | 0 |  |
| 838 |  |  |  |  |  |  |  |  |  | 2 | x-bite 53-55,65; Ant openbit |
| 839 |  |  |  |  |  |  |  |  |  | 0 |  |
| 840 |  |  |  |  |  |  |  |  |  | 0 |  |
| 841 |  |  |  |  |  |  |  |  |  | 0 |  |
| 842 |  |  |  |  |  |  |  | 1 | 1 | 1 | 11-21 diastema 3 mm . |
| 843 |  |  |  |  |  |  |  | 1 |  | 1 | Slight crowding lower ant.'s |
| 844 |  |  |  |  |  |  |  |  |  | 0 |  |
| 845 |  |  |  |  |  |  |  |  |  | 0 |  |
| 846 |  |  |  |  |  |  |  |  |  | 0 | Ant. spacing |
| 847 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 848 |  |  |  |  | 1 |  |  |  |  | 1 | Space loss-64 |
| 849 |  |  |  |  | 1 |  |  |  |  | 2 | Space loss-54,64,74,84 |
| 850 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 851 |  |  |  |  | 1 |  |  |  |  | 1 | 53/83 x-bite, 54/84 edge-ed |
| 852 |  |  |  |  | 1 |  |  | 1 | 1 | 1 | Midline shift 3 mm . R |
| 853 |  |  |  |  | 1 |  |  |  |  | 1 | Ant. edge-edge |
| 854 |  |  |  |  | 1 |  |  |  |  | 2 | 51 ext'n-11/82 x-bite |
| 855 |  |  |  |  | 1 |  |  |  |  | 1 | No Space-12,22 ('89 Cong m |
| 856 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 857 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 858 |  |  |  |  | 1 |  |  |  | 1 | 1 | Space loss 24 |


| No. | 36 | Specify | Tx. | 37 | FI | PUD | PUD | PLDR | PUDR | 56 | Dentofacial Anomalies |
| :---: | :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 859 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 860 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 861 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 862 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 863 |  |  |  |  |  |  |  |  |  | 0 |  |
| 864 |  |  |  |  | 1 |  |  | 1 |  | 0 |  |
| 865 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 866 |  |  |  |  |  |  |  |  |  | 0 |  |
| 867 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 868 |  |  |  |  | 1 |  |  |  |  | 1 | 11 erupting labially |
| 869 |  |  |  |  | 1 |  |  |  |  | 1 | L. ant. crowding |
| 870 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 871 |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 872 |  |  |  |  | 1 |  |  |  |  | 1 | Ant. x-bite 52-63 |
| 873 |  |  |  |  |  |  |  |  |  | 0 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 901 |  |  |  |  |  |  | 1 |  |  | 0 |  |
| 902 |  |  |  |  |  |  |  |  |  | 0 |  |
| 903 |  |  |  |  |  |  |  |  |  | 0 |  |
| 904 |  |  |  |  |  |  |  | 1 |  | 0 |  |
| 905 |  |  |  |  |  |  |  |  |  | 0 |  |
| 906 |  |  |  |  |  |  |  |  |  | 0 | Physio. spacing |
| 907 |  |  |  |  |  |  |  |  |  | 0 |  |


| No. | Molars | O.J. | O.B. | Crowd. | 61 | 62 | 63 | 64 | X-rays | 18 | 17 | 16 | 15,55 | 14,54 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 701 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | A0 | A0 |
| 702 | 1 | 2 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 80 | A0 | A0 |
| 703 | 1 | - | - |  | 1 | 0 | 1 | 1 | 1 | 80 | 80 | 11 | B2 | B2 |
| 704 | 1 | - | - |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 80 | A0 | A0 |
| 705 | 1 | - | - |  | 1 | 0 | 1 | 0 | 1 | 80 | 80 | 12 | B4 | A0 |
| 706 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 80 | A0 | A0 |
| 707 | 1 | - | - |  | 1 | 0 | 1 | 0 | 1 | 80 | 80 | 80 | A0 | A0 |
| 708 | 1 | - | - |  | 1 | 0 | 1 | 0 | 1 | 80 | 80 | 00 | A0 | A0 |
| 709 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 80 | B2 | B2 |
| 710 | 1 | 2 | 3 |  | 1 | 1 | 1 | 0 | 1 | 80 | 80 | 80 | B4 | A0 |
| 711 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 12 | B2 | A0 |
| 712 | 1 | - | - |  | 0 | 1 | 1 | 1 | 1 | 80 | 80 | 14 | C4 | C4 |
| 713 | 1 | 3 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | C4 | AO |
| 714 | 1 | 1 | 3 |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 80 | B2 | B2 |
| 715 | - | - | - |  | 1 | 0 | 1 | 0 | 1 | 80 | 80 | 11 | C4 | C4 |
| 716 | 1 | - | - |  | 1 | 1 | 1 | 0 | 1 | 80 | 80 | 80 | B4 | B4 |
| 717 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | C1 | A0 |
| 718 | 1 | - | - |  | 0 | 1 | 0 | 1 | 1 | 80 | 80 | 12 | C4 | M9 |
| 719 | 1 | - | - |  | 1 | 1 | 1 | 1 | 1 | 80 | 80 | 12 | B4 | M9 |
| 720 | 2 | - | - |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 11 | B2 | A0 |
| 721 | 1 | - | - |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 80 | B2 | B4 |
| 722 | 1 | - | - |  | 1 | 1 | 1 | 0 | 1 | 80 | 80 | 80 | B2 | A0 |
| 723 | 1 | - | - |  | 1 | 0 | 1 | 1 | 1 | 80 | 80 | 00 | B5 | A0 |
| 724 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 11 | B2 | B4 |
| 725 | 1 | - | - |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 12 | B4 | B3 |
| 726 | 1 | - | - | 1 | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 80 | B3 | B2 |
| 727 | 1 | - | - |  | 1 | 0 | 1 | 1 | 1 | 80 | 80 | 80 | B2 | M9 |
| 728 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 80 | A0 | A0 |
| 729 | 1 | 3 | 3 |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 00 | B2 | B4 |


| No. | Molars | O.J. | O.B. | Crowd. | 61 | 62 | 63 | 64 | X-rays | 18 | 17 | 16 | 15,55 | 14,54 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 730 | 1 | - | - |  | 0 | 1 | 1 | 1 | 0 | 80 | 80 | 00 | M9 | M9 |
| 731 | 2 | 2 | - |  | 1 | 0 | 1 | 1 | 1 | 80 | 80 | 80 | B4 | B4 |
| 732 | 1 | 1 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | B1 | B2 |
| 733 | 1 | - | - |  | 1 | 0 | 1 | 0 | 1 | 80 | 80 | 00 | B2 | B3 |
| 734 | 1 | 3 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | A0 | A0 |
| 735 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | B1 | B2 |
| 736 | 1 | 2 | 2 |  | 0 | 0 | 0 | 1 | 0 | 80 | 80 | 90 | B1 | M9 |
| 737 | 1 | 3 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | A0 | A0 |
| 738 | 1 | 1 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 80 | A0 | A0 |
| 739 | 1 | 3 | 3 |  | 0 | 1 | 0 | 0 | 1 | 80 | 80 | 00 | B2 | A0 |
| 740 | 2 | 2 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 14 | B4 | B1 |
| 741 | - | - | - |  | 0 | 1 | 1 | 0 | 0 | 80 | 80 | 11 | A0 | A0 |
| 742 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | C4 | C4 |
| 743 | 3 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 12 | C4 | C4 |
| 744 | 1 | 1 | 3 |  | 1 | 1 | 1 | 0 | 1 | 80 | 80 | 12 | B3 | B1 |
| 745 | 1 | - | - |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 80 | B2 | B3 |
| 746 | 1 | - | - |  | 1 | 1 | 1 | 1 | 1 | 80 | 80 | 00 | B1 | B1 |
| 747 | 1 | - | - |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 00 | B2 | B2 |
| 748 | 2 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | E4 | M0 |
| 749 | 1 | - | - |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 11 | B3 | A0 |
| 750 | 1 | - | - |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 00 | B2 | B2 |
| 751 | 1 | 3 | 2 |  | 0 | 1 | 1 | 1 | 1 | 80 | 80 | 11 | B5 | B5 |
| 752 | 1 | - | - |  | 0 | 0 | 0 | 1 | 1 | 80 | 80 | 11 | C2 | A0 |
| 753 | 3 | - | - |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 00 | A0 | B2 |
| 754 | 1 | - | - |  | 0 | 0 | 0 | 1 | 1 | 80 | 80 | 80 | C2 | M9 |
| 755 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 11 | C3 | C2 |
| 756 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | A0 | A0 |
| 757 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 80 | C3 | B2 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| No. | Molars | O.J. | O.B. | Crowd. | 61 | 62 | 63 | 64 | X-rays | 18 | 17 | 16 | 15,55 | 14,54 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 801 | 1 | - | - |  | 1 | 1 | 1 | 1 | 1 | 80 | 80 | 14 | B1 | B5 |
| 802 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | B1 | A0 |
| 803 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | A0 | B1 |
| 804 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | B0 | A0 |
| 805 | 1 | - | - |  | 0 | 1 | 1 | 1 | 0 | 80 | 80 | 12 | E5 | M9 |
| 806 | 1 | 3 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 12 | E3 | C2 |
| 807 | 1 | 3 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 12 | E2 | B5 |
| 808 | 1 | - | - |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 80 | C4 | B2 |
| 809 | 1 | 1 | 3 |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 00 | B4 | B2 |
| 810 | 2 | 2 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 12 | A0 | A0 |
| 811 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 80 | B1 | A0 |
| 812 | 2 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 11 | C4 | C4 |
| 813 | 1 | 3 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | A0 | A0 |
| 814 | 1 | 3 | 2 |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 00 | B2 | A0 |
| 815 | 1 | 3 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 80 | B3 | C2 |
| 816 | 1 | 2 | 3 |  | 1 | 0 | 1 | 1 | 1 | 80 | 80 | 80 | B1 | B4 |
| 817 | 1 | 1 | 3 |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 80 | A0 | A0 |
| 818 | 1 | - | - |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 80 | B4 | B3 |
| 819 | 1 | - | - |  | 0 | 0 | 0 | 1 | 1 | 80 | 80 | 11 | C4 | M0 |
| 820 | 1 | 1 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 80 | A0 | A0 |
| 821 | 1 | 3 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | B2 | A0 |
| 822 | 1 | 1 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 12 | C2 | B4 |
| 823 | 1 | 1 | 2 |  | 0 | 0 | 0 | 1 | 1 | 80 | 80 | 11 | B2 | M0 |
| 824 | 1 | 3 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 80 | A0 | A0 |
| 825 | 1 | - | - |  | 1 | 1 | 1 | 1 | 1 | 80 | 80 | 80 | B4 | A0 |
| 826 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 12 | C4 | C4 |
| 827 | 1 | 2 | 2 |  | 0 | 0 | 0 | 1 | 1 | 80 | 80 | 00 | B2 | A0 |
| 828 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 80 | B1 | A0 |
| 829 | 1 | - | - |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 00 | B2 | A0 |


| No. | Molars | O.J. | O.B. | Crowd. | 61 | 62 | 63 | 64 | X-rays | 18 | 17 | 16 | 15,55 | 14,54 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 830 | 1 | - | - |  | 0 | 0 | 0 | 1 | 1 | 80 | 80 | 80 | B2 | M9 |
| 831 | 1 | - | - |  | 0 | 1 | 1 | 0 | 0 | 80 | 80 | 12 | B2 | B2 |
| 832 | 1 | - | - |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 12 | B1 | A0 |
| 833 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 80 | B2 | A0 |
| 834 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 80 | D2 | C1 |
| 835 | 3 | 3 | 3 |  | 1 | 1 | 1 | 0 | 1 | 80 | 80 | 00 | B1 | B5 |
| 836 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | B1 | B1 |
| 837 | 1 | 2 | 2 |  | 0 | 0 | 0 | 1 | 1 | 80 | 80 | 00 | B2 | B1 |
| 838 | 2 | - | - |  | 0 | 0 | 0 | 1 | 1 | 80 | 80 | 80 | A0 | A0 |
| 839 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | B1 | A0 |
| 840 | 1 | 2 | 2 |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 80 | A0 | A0 |
| 841 | 1 | - | - |  | 0 | 0 | 0 | 1 |  | 80 | 80 | 00 | C2 | C3 |
| 842 | 1 | 3 | 3 |  | 1 | 1 | 1 | 0 | 1 | 80 | 80 | 00 | B3 | B5 |
| 843 | 2 | 2 | 3 | 1 | 1 | 0 | 1 | 1 | 1 | 80 | 80 | 11 | C2 | C3 |
| 844 | 1 | 3 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 80 | A0 | B2 |
| 845 | 1 | 2 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | A0 | A0 |
| 846 | 1 | 3 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | B1 | A0 |
| 847 | 2 | - | - |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 12 | B1 | A0 |
| 848 | 2 | - | - |  | 0 | 0 | 0 | 1 | 1 | 80 | 80 | 00 | E4 | E4 |
| 849 | 2 | - | - |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 80 | C4 | M0 |
| 850 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | B1 | B2 |
| 851 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | A0 | A0 |
| 852 | 1 | 1 | 1 |  | 1 | 1 | 1 | 1 | 1 | 80 | 80 | 11 | B5 | B5 |
| 853 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | C4 | C4 |
| 854 | 1 | - | - |  | 1 | 1 | 1 | 1 | 1 | 80 | 80 | 00 | B4 | B4 |
| 855 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | A0 | A0 |
| 856 | 1 | 1 | 1 |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 80 | C1 | D2 |
| 857 | 1 | - | - |  | 1 | 1 | 1 | 0 | 1 | 80 | 80 | 80 | B1 | B2 |
| 858 | 2 | - | - |  | 0 | 0 | 0 | 1 | 1 | 80 | 80 | 00 | E2 | M9 |

MANITOBA CHILDREN'S DENTAL PROGRAM - 6 YEARS

| No. | Molars | O.J. | O.B. | Crowd. | 61 | 62 | 63 | 64 | X-rays | 18 | 17 | 16 | 15,55 | 14,54 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 859 | 1 | 3 | 1 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 80 | A0 | A0 |
| 860 | 2 | - | - |  | 1 | 1 | 1 | 0 | 1 | 80 | 80 | 00 | B4 | B2 |
| 861 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 80 | B2 | A0 |
| 862 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 12 | C2 | C4 |
| 863 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | A0 | B2 |
| 864 | 2 | 2 | 2 |  | 0 | 0 | 0 | 1 | 1 | 80 | 80 | 11 | C4 | C4 |
| 865 | - | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 80 | B1 | A0 |
| 866 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | C4 | B3 |
| 867 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | A0 | A0 |
| 868 | 1 | - | - |  | 1 | 0 | 1 | 0 | 1 | 80 | 80 | 80 | B2 | A0 |
| 869 | 3 | - | - | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | B1 | A0 |
| 870 | - | - | - |  | 0 | 0 | 0 | 0 | 0 | 80 | 80 | 00 | A0 | A0 |
| 871 | - | - | - |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 00 | B1 | A0 |
| 872 | 1 | - | - |  | 0 | 1 | 1 | 0 | 1 | 80 | 80 | 80 | B2 | B4 |
| 873 | 2 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | B1 | A0 |
| 901 | 1 | - | - |  | 0 | 0 | 0 | 0 | 0 | 80 | 80 | 90 | B1 | B1 |
| 902 | 1 | - | - |  | 0 | 1 | 0 | 0 | 0 | 80 | 80 | 90 | B2 | A0 |
| 903 | 1 | - | - |  | 0 | 0 | 0 | 0 | 0 | 80 | 80 | 90 | B1 | A0 |
| 904 | 1 | - | - |  | 1 | 0 | 1 | 0 | 1 | 80 | 80 | 80 | B3 | B2 |
| 905 | 2 | - | - |  | 0 | 0 | 0 | 1 | 1 | 80 | 80 | 00 | A0 | A0 |
| 906 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 11 | A0 | A0 |
| 907 | - | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 00 | C1 | C2 |


| No. | 13,53 | 12,52 | 11,51 | 21,61 | 22,62 | 23,63 | 24,64 | 25,65 | 26 | 27 | 28 | 48 | 47 | 46 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 701 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | A0 | 00 | 80 | 80 | 80 | 80 | 00 |
| 702 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 80 | 80 | 80 | 80 | 80 | 80 |
| 703 | A0 | B0 | X0 | X0 | B0 | C1 | E5 | C2 | 11 | 80 | 80 | 80 | 80 | 11 |
| 704 | A0 | B1 | B0 | B0 | A0 | A0 | A0 | A0 | 80 | 80 | 80 | 80 | 80 | 80 |
| 705 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | D2 | 13 | 80 | 80 | 80 | 80 | 12 |
| 706 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | A0 | 80 | 80 | 80 | 80 | 80 | 80 |
| 707 | B2 | A0 | M0 | A0 | A0 | B1 | A0 | B2 | 80 | 80 | 80 | 80 | 80 | 00 |
| 708 | B4 | A0 | 80 | 80 | B5 | A0 | B2 | B1 | 11 | 80 | 80 | 80 | 80 | 80 |
| 709 | A0 | A0 | X0 | X0 | A0 | A0 | B2 | B1 | 80 | 80 | 80 | 80 | 80 | 80 |
| 710 | A0 | A0 | B0 | B0 | B0 | B2 | B4 | B4 | 80 | 80 | 80 | 80 | 80 | 80 |
| 711 | A0 | X0 | X0 | X0 | X0 | A0 | B2 | A0 | 00 | 80 | 80 | 80 | 80 | 00 |
| 712 | X0 | X0 | X0 | X0 | X0 | A0 | C4 | C4 | 11 | 80 | 80 | 80 | 80 | 00 |
| 713 | A0 | X0 | X0 | X0 | A0 | A0 | C2 | C4 | 00 | 80 | 80 | 80 | 80 | 00 |
| 714 | A0 | M0 | B1 | B2 | B1 | A0 | B2 | B2 | 80 | 80 | 80 | 80 | 80 | 80 |
| 715 | X0 | X0 | X0 | X0 | X0 | C1 | C4 | C2 | 11 | 80 | 80 | 80 | 80 | 12 |
| 716 | A0 | B0 | B5 | B5 | B0 | B1 | B4 | B4 | 80 | 80 | 80 | 80 | 80 | 80 |
| 717 | AO | X0 | X0 | X0 | X0 | A0 | A0 | B1 | 11 | 80 | 80 | 80 | 80 | 00 |
| 718 | A0 | X0 | X0 | X0 | X0 | M9 | M9 | C4 | 12 | 80 | 80 | 80 | 80 | 12 |
| 719 | A0 | B0 | X0 | X0 | A0 | A0 | B4 | B4 | 12 | 80 | 80 | 80 | 80 | 11 |
| 720 | A0 | X0 | X0 | X0 | X0 | A0 | B4 | B3 | 11 | 80 | 80 | 80 | 80 | 12 |
| 721 | B2 | B0 | B0 | B0 | B0 | B1 | B4 | B2 | 80 | 80 | 80 | 80 | 80 | 12 |
| 722 | A0 | A0 | B5 | A0 | A0 | A0 | A0 | A0 | 80 | 80 | 80 | 80 | 80 | 00 |
| 723 | AO | A0 | X0 | X0 | A0 | A0 | B2 | B2 | 00 | 80 | 80 | 80 | 80 | 00 |
| 724 | B1 | X0 | X0 | X0 | X0 | B1 | B4 | B2 | 12 | 80 | 80 | 80 | 80 | 12 |
| 725 | B2 | B0 | B0 | B0 | A0 | A0 | C2 | C3 | 21 | 80 | 80 | 80 | 80 | 12 |
| 726 | A0 | A0 | B0 | B0 | B0 | A0 | B2 | B2 | 80 | 80 | 80 | 80 | 80 | 80 |
| 727 | A0 | X0 | X0 | X0 | X0 | A0 | M9 | B2 | 80 | 80 | 80 | 80 | 80 | 80 |
| 728 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | 80 | 80 | 80 | 80 | 80 | 80 |
| 729 | A0 | A0 | X0 | X0 | A0 | A0 | B4 | B2 | 00 | 80 | 80 | 80 | 80 | 11 |

MANITOBA CHILDREN'S DENTAL PROGRAM - 6 YEARS

| No. | 13,53 | 12,52 | 11,51 | 21,61 | 22,62 | 23,63 | 24,64 | 25,65 | 26 | 27 | 28 | 48 | 47 | 46 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 730 | B4 | A0 | X0 | X0 | A0 | B2 | M9 | B2 | 00 | 80 | 80 | 80 | 80 | 12 |
| 731 | A0 | A0 | AO | B5 | A0 | B2 | B4 | B3 | 80 | 80 | 80 | 80 | 80 | 12 |
| 732 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | A0 | 80 | 80 | 80 | 80 | 80 | 00 |
| 733 | A0 | A0 | X0 | X0 | B1 | A0 | B3 | B5 | 00 | 80 | 80 | 80 | 80 | 12 |
| 734 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 00 | 80 | 80 | 80 | 80 | 00 |
| 735 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | B1 | 00 | 80 | 80 | 80 | 80 | 00 |
| 736 | B1 | A0 | B0 | B0 | B0 | B1 | M9 | A0 | 90 | 80 | 80 | 80 | 80 | 90 |
| 737 | AO | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 00 | 80 | 80 | 80 | 80 | 00 |
| 738 | A0 | A0 | B0 | B0 | A0 | A0 | A0 | A0 | 80 | 80 | 80 | 80 | 80 | 80 |
| 739 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | A0 | 00 | 80 | 80 | 80 | 80 | 80 |
| 740 | A0 | A0 | X0 | X0 | A0 | A0 | B2 | B4 | 14 | 80 | 80 | 80 | 80 | 00 |
| 741 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | 90 | 80 | 80 | 80 | 80 | 90 |
| 742 | A0 | A0 | X0 | A0 | A0 | A0 | C4 | C4 | 00 | 80 | 80 | 80 | 80 | 00 |
| 743 | A0 | X0 | X0 | X0 | X0 | AO | C4 | C4 | 13 | 80 | 80 | 80 | 80 | 11 |
| 744 | A0 | X0 | X0 | X0 | X0 | A0 | B2 | B2 | 12 | 80 | 80 | 80 | 80 | 12 |
| 745 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | B2 | 80 | 80 | 80 | 80 | 80 | 00 |
| 746 | AO | A0 | X0 | X0 | A0 | B2 | B2 | B2 | 80 | 80 | 80 | 80 | 80 | 00 |
| 747 | A0 | A0 | A0 | A0 | A0 | A0 | B2 | B2 | 00 | 80 | 80 | 80 | 80 | 00 |
| 748 | A0 | A0 | A0 | A0 | A0 | AO | M0 | E4 | 00 | 80 | 80 | 80 | 80 | 00 |
| 749 | A0 | X0 | X0 | X0 | X0 | B3 | A0 | B3 | 00 | 80 | 80 | 80 | 80 | 11 |
| 750 | A0 | X0 | X0 | X0 | X0 | A0 | B2 | B2 | 00 | 80 | 80 | 80 | 80 | 00 |
| 751 | A0 | X0 | X0 | X0 | X0 | B5 | 00 | B5 | 11 | 80 | 80 | 80 | 80 | 12 |
| 752 | C4 | AO | X0 | X0 | A0 | B1 | C4 | C2 | 00 | 80 | 80 | 80 | 80 | 11 |
| 753 | A0 | X0 | X0 | X0 | X0 | A0 | B2 | B2 | 00 | 80 | 80 | 80 | 80 | 00 |
| 754 | C4 | X0 | X0 | X0 | X0 | M9 | M9 | C2 | 80 | 80 | 80 | 80 | 80 | 80 |
| 755 | C2 | X0 | X0 | X0 | X0 | A0 | C2 | C3 | 22 | 80 | 80 | 80 | 80 | 21 |
| 756 | A0 | A0 | AO | B0 | A0 | A0 | A0 | A0 | 00 | 80 | 80 | 80 | 80 | 00 |
| 757 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | C4 | 80 | 80 | 80 | 80 | 80 | 80 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

MANITOBA CHILDREN'S DENTAL PROGRAM - 6 YEARS

| No. | 13,53 | 12,52 | 11,51 | 21,61 | 22,62 | 23,63 | 24,64 | 25,65 | 26 | 27 | 28 | 48 | 47 | 46 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 801 | A0 | A0 | X0 | X0 | A0 | A0 | B5 | B1 | 14 | 80 | 80 | 80 | 80 | 12 |
| 802 | A0 | A0 | B0 | A0 | A0 | A0 | A0 | A0 | 00 | 80 | 80 | 80 | 80 | 00 |
| 803 | A0 | X0 | X0 | X0 | X0 | B1 | B2 | A0 | 00 | 80 | 80 | 80 | 80 | 11 |
| 804 | A0 | X0 | X0 | X0 | X0 | A0 | C4 | C1 | 00 | 80 | 80 | 80 | 80 | 00 |
| 805 | C4 | X0 | X0 | X0 | X0 | A0 | C4 | C4 | 12 | 80 | 80 | 80 | 80 | 00 |
| 806 | A0 | X0 | B0 | B0 | X0 | A0 | C2 | E3 | 13 | 80 | 80 | 80 | 80 | 13 |
| 807 | A0 | B0 | X0 | X0 | X0 | A0 | B2 | B2 | 00 | 80 | 80 | 80 | 80 | 00 |
| 808 | C1 | C4 | X0 | X0 | C4 | B4 | B1 | B1 | 80 | 80 | 80 | 80 | 80 | 80 |
| 809 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | B4 | 00 | 80 | 80 | 80 | 80 | 00 |
| 810 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | A0 | 12 | 80 | 80 | 80 | 80 | 00 |
| 811 | A0 | A0 | A0 | X0 | A0 | B1 | AO | A0 | 80 | 80 | 80 | 80 | 80 | 00 |
| 812 | C1 | X0 | X0 | X0 | X0 | C4 | C4 | E4 | 00 | 80 | 80 | 80 | 80 | 11 |
| 813 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | A0 | 00 | 80 | 80 | 80 | 80 | 00 |
| 814 | A0 | B0 | B0 | B0 | B0 | A0 | B3 | B2 | 80 | 80 | 80 | 80 | 80 | 00 |
| 815 | AO | A0 | A0 | A0 | A0 | A0 | A0 | B2 | 80 | 80 | 80 | 80 | 80 | 80 |
| 816 | A0 | A0 | B0 | B0 | A0 | A0 | B4 | B3 | 80 | 80 | 80 | 80 | 80 | 80 |
| 817 | B1 | B0 | B0 | A0 | B0 | B1 | B0 | B2 | 80 | 80 | 80 | 80 | 80 | 00 |
| 818 | B2 | B0 | B0 | B0 | B0 | A0 | B3 | B2 | 80 | 80 | 80 | 80 | 80 | 80 |
| 819 | A0 | X0 | X0 | X0 | X0 | A0 | M9 | C1 | 12 | 80 | 80 | 80 | 80 | 12 |
| 820 | A0 | AO | AO | A0 | A0 | A0 | A0 | A0 | 80 | 80 | 80 | 80 | 80 | 80 |
| 821 | A0 | A0 | X0 | X0 | A0 | A0 | B1 | B2 | 00 | 80 | 80 | 80 | 80 | 12 |
| 822 | C1 | X0 | X0 | X0 | X0 | C2 | M0 | E4 | 12 | 80 | 80 | 80 | 80 | 12 |
| 823 | A0 | X0 | X0 | X0 | X0 | A0 | C1 | M0 | 11 | 80 | 80 | 80 | 80 | 12 |
| 824 | A0 | A0 | A0 | A0 | A0 | A0 | AO | B1 | 80 | 80 | 80 | 80 | 80 | 00 |
| 825 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 80 | 80 | 80 | 80 | 80 | 00 |
| 826 | C1 | X0 | X0 | X0 | X0 | B1 | C4 | M0 | 12 | 80 | 80 | 80 | 80 | 12 |
| 827 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | B2 | 00 | 80 | 80 | 80 | 80 | 11 |
| 828 | A0 | A0 | X0 | X0 | A0 | A0 | C1 | E2 | 80 | 80 | 80 | 80 | 80 | 80 |
| 829 | A0 | AO | A0 | A0 | A0 | A0 | B2 | B4 | 00 | 80 | 80 | 80 | 80 | 12 |

MANITOBA CHILDREN'S DENTAL PROGRAM - 6 YEARS

| No. | 13,53 | 12,52 | 11,51 | 21,61 | 22,62 | 23,63 | 24,64 | 25,65 | 26 | 27 | 28 | 48 | 47 | 46 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 830 | A0 | B0 | B0 | B0 | B0 | A0 | B2 | B2 | 80 | 80 | 80 | 80 | 80 | 80 |
| 831 | A0 | X0 | X0 | X0 | X0 | A0 | B4 | A0 | 12 | 80 | 80 | 80 | 80 | 11 |
| 832 | A0 | A0 | X0 | A0 | A0 | A0 | B1 | C4 | 12 | 80 | 80 | 80 | 80 | 12 |
| 833 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | B2 | 80 | 80 | 80 | 80 | 80 | 80 |
| 834 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | C2 | 80 | 80 | 80 | 80 | 80 | 80 |
| 835 | AO | B0 | B0 | B0 | B0 | A0 | A0 | B4 | 11 | 80 | 80 | 80 | 80 | 00 |
| 836 | AO | A0 | X0 | X0 | A0 | A0 | A0 | A0 | 00 | 80 | 80 | 80 | 80 | 00 |
| 837 | AO | A0 | A0 | A0 | A0 | A0 | AO | A0 | 00 | 80 | 80 | 80 | 80 | 11 |
| 838 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 80 | 80 | 80 | 80 | 80 | 80 |
| 839 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | B1 | 00 | 80 | 80 | 80 | 80 | 00 |
| 840 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | 80 | 80 | 80 | 80 | 80 | 00 |
| 841 | A0 | 80 | 80 | 80 | 80 | A0 | A0 | C2 | 00 | 80 | 80 | 80 | 80 | 00 |
| 842 | B1 | B0 | 00 | 00 | B0 | B1 | B1 | B3 | 00 | 80 | 80 | 80 | 80 | 12 |
| 843 | B1 | B0 | B0 | B0 | B0 | B1 | E2 | C2 | 00 | 80 | 80 | 80 | 80 | 11 |
| 844 | A0 | A0 | A0 | A0 | A0 | A0 | B2 | A0 | 80 | 80 | 80 | 80 | 80 | 80 |
| 845 | AO | X0 | X0 | X0 | X0 | AO | A0 | B2 | 00 | 80 | 80 | 80 | 80 | 00 |
| 846 | AO | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 00 | 80 | 80 | 80 | 80 | 00 |
| 847 | A0 | B0 | B0 | B0 | B0 | A0 | B2 | B3 | 12 | 80 | 80 | 80 | 80 | 12 |
| 848 | A0 | 80 | 80 | 80 | 80 | C1 | M0 | E3 | 00 | 80 | 80 | 80 | 80 | 00 |
| 849 | C4 | X0 | X0 | X0 | X0 | A0 | M0 | C4 | 80 | 80 | 80 | 80 | 80 | 80 |
| 850 | A0 | AO | A0 | A0 | A0 | A0 | B2 | B2 | 00 | 80 | 80 | 80 | 80 | 00 |
| 851 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | A0 | 00 | 80 | 80 | 80 | 80 | 11 |
| 852 | A0 | X0 | X0 | X0 | X0 | A0 | B5 | B2 | 00 | 80 | 80 | 80 | 80 | 00 |
| 853 | C3 | X0 | X0 | X0 | X0 | C4 | C4 | C4 | 00 | 80 | 80 | 80 | 80 | 00 |
| 854 | A0 | A0 | B9 | B5 | A0 | B4 | B4 | B4 | 00 | 80 | 80 | 80 | 80 | 00 |
| 855 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 00 | 80 | 80 | 80 | 80 | 00 |
| 856 | A0 | A0 | A0 | A0 | A0 | A0 | B2 | E2 | 80 | 80 | 80 | 80 | 80 | 80 |
| 857 | A0 | AO | B0 | B0 | A0 | A0 | A0 | B4 | 80 | 80 | 80 | 80 | 80 | 00 |
| 858 | M0 | X0 | X0 | X0 | X0 | B1 | M9 | E1 | 00 | 80 | 80 | 80 | 80 | 00 |


| No. | 13,53 | 12,52 | 11,51 | 21,61 | 22,62 | 23,63 | 24,64 | 25,65 | 26 | 27 | 28 | 48 | 47 | 46 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 859 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | 80 | 80 | 80 | 80 | 80 | 80 |
| 860 | A0 | A0 | X0 | X0 | A0 | A0 | B5 | B1 | 00 | 80 | 80 | 80 | 80 | 11 |
| 861 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | B1 | 80 | 80 | 80 | 80 | 80 | 11 |
| 862 | B1 | 80 | 80 | 80 | 80 | A0 | C2 | C4 | 12 | 80 | 80 | 80 | 80 | 00 |
| 863 | A0 | A0 | 80 | 80 | A0 | A0 | B2 | B2 | 00 | 80 | 80 | 80 | 80 | 00 |
| 864 | C4 | X0 | X0 | X0 | X0 | C4 | 00 | C4 | 00 | 80 | 80 | 80 | 80 | 22 |
| 865 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | 80 | 80 | 80 | 80 | 80 | 80 |
| 866 | B1 | X0 | X0 | X0 | X0 | C1 | C4 | C4 | 00 | 80 | 80 | 80 | 80 | 00 |
| 867 | A0 | A0 | AO | AO | A0 | A0 | A0 | A0 | 00 | 80 | 80 | 80 | 80 | 00 |
| 868 | A0 | A0 | A8 | B5 | A0 | A0 | B2 | B1 | 80 | 80 | 80 | 80 | 80 | 80 |
| 869 | A0 | A0 | X0 | X0 | A0 | A0 | B2 | B3 | 00 | 80 | 80 | 80 | 80 | 00 |
| 870 | A0 | A0 | X0 | X0 | X0 | A0 | A0 | A0 | 00 | 80 | 80 | 80 | 80 | 00 |
| 871 | A0 | AO | A0 | A0 | A0 | A0 | A0 | B1 | 12 | 80 | 80 | 80 | 80 | 00 |
| 872 | A0 | AO | B0 | B0 | A0 | A0 | B4 | B2 | 80 | 80 | 80 | 80 | 80 | 80 |
| 873 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 00 | 80 | 80 | 80 | 80 | 00 |
| 901 | A0 | B0 | B0 | A0 | B0 | A0 | A0 | C1 | 90 | 80 | 80 | 80 | 80 | 90 |
| 902 | B1 | B0 | B0 | B0 | B0 | B1 | B2 | A0 | 90 | 80 | 80 | 80 | 80 | 90 |
| 903 | B1 | A0 | A0 | A0 | AO | A0 | B2 | A0 | 90 | 80 | 80 | 80 | 80 | 90 |
| 904 | AO | A0 | A0 | A0 | A0 | A0 | B1 | B3 | 00 | 80 | 80 | 80 | 80 | 11 |
| 905 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | 13 | 80 | 80 | 80 | 80 | 00 |
| 906 | A0 | A0 | A0 | A0 | A0 | AO | A0 | A0 | 11 | 80 | 80 | 80 | 80 | 11 |
| 907 | A0 | A0 | A0 | X0 | A0 | A0 | C4 | C1 | 00 | 80 | 80 | 80 | 80 | 00 |

MANITOBA CHILDREN'S DENTAL PROGRAM - 6 YEARS

| No. | 45,85 | 44,84 | 43,83 | 42,82 | 41,81 | 31,71 | 32,72 | 33,73 | 34,74 | 35,75 | 36 | 37 | 38 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 701 | A0 | A0 | A0 | A0 | X0 | X0 | X0 | A0 | A0 | A0 | 00 | 80 | 80 |
| 702 | A0 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 80 | 80 | 80 |
| 703 | C4 | C4 | A0 | X0 | X0 | X0 | X0 | C1 | C4 | C1 | 11 | 80 | 80 |
| 704 | B4 | B2 | A0 | A0 | X0 | A0 | A0 | A0 | A0 | B4 | 80 | 80 | 80 |
| 705 | B5 | A0 | AO | X0 | X0 | X0 | X0 | A0 | B2 | B2 | 12 | 80 | 80 |
| 706 | A0 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 80 | 80 | 80 |
| 707 | B4 | B4 | A0 | X0 | X0 | X0 | X0 | A0 | M9 | M9 | 11 | 80 | 80 |
| 708 | B1 | A0 | B2 | A0 | X0 | X0 | A0 | A0 | A0 | B1 | 80 | 80 | 80 |
| 709 | A0 | A0 | A0 | A0 | X0 | X0 | A0 | A0 | AO | A0 | 80 | 80 | 80 |
| 710 | B4 | B2 | B1 | A0 | X0 | X0 | A0 | AO | E5 | B2 | 80 | 80 | 80 |
| 711 | C1 | B1 | A8 | A0 | 00 | 00 | 80 | A8 | A0 | C1 | 11 | 80 | 80 |
| 712 | C4 | M9 | A0 | X0 | X0 | X0 | X0 | A0 | M9 | C4 | 11 | 80 | 80 |
| 713 | C4 | C4 | A0 | X0 | X0 | X0 | X0 | A0 | C4 | C4 | 11 | 80 | 80 |
| 714 | B4 | B4 | AO | X0 | X0 | X0 | X0 | A0 | C4 | C3 | 80 | 80 | 80 |
| 715 | E5 | M9 | AO | X0 | X0 | X0 | X0 | A0 | C4 | C4 | 12 | 80 | 80 |
| 716 | B4 | B4 | A0 | X0 | X0 | X0 | X0 | B1 | E3 | C1 | 80 | 80 | 80 |
| 717 | B1 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 00 | 80 | 80 |
| 718 | M9 | M9 | M9 | X0 | X0 | X0 | X0 | A0 | M9 | M9 | 12 | 80 | 80 |
| 719 | M9 | B4 | B1 | X0 | X0 | X0 | X0 | B1 | B4 | B5 | 11 | 80 | 80 |
| 720 | B1 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | B2 | 12 | 80 | 80 |
| 721 | B3 | B4 | A0 | X0 | X0 | X0 | X0 | B1 | B4 | B3 | 12 | 80 | 80 |
| 722 | B4 | B2 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | B4 | 00 | 80 | 80 |
| 723 | B1 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | B2 | B5 | 00 | 80 | 80 |
| 724 | B2 | B4 | A8 | X0 | X0 | X0 | X0 | A8 | B4 | B2 | 12 | 80 | 80 |
| 725 | B2 | B4 | A0 | A0 | X0 | X0 | A0 | A0 | B4 | B4 | 00 | 80 | 80 |
| 726 | B1 | B4 | B1 | A0 | X0 | X0 | A0 | B2 | B4 | B3 | 80 | 80 | 80 |
| 727 | A0 | M9 | B1 | A0 | X0 | X0 | B0 | B1 | M9 | E5 | 80 | 80 | 80 |
| 728 | A0 | A0 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | A0 | 80 | 80 | 80 |
| 729 | B4 | B2 | A0 | X0 | X0 | X0 | X0 | A0 | B4 | B2 | 11 | 80 | 80 |


| No. | 45,85 | 44,84 | 43,83 | 42,82 | 41,81 | 31,71 | 32,72 | 33,73 | 34,74 | 35,75 | 36 | 37 | 38 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 730 | B2 | B4 | B1 | A0 | X0 | X0 | X0 | A0 | B2 | B1 | 12 | 80 | 80 |
| 731 | C4 | M0 | A0 | A0 | X0 | X0 | A0 | A0 | B5 | C4 | 12 | 80 | 80 |
| 732 | B2 | B2 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | A0 | 00 | 80 | 80 |
| 733 | B4 | B2 | A0 | X0 | X0 | X0 | X0 | A0 | B2 | B1 | 00 | 80 | 80 |
| 734 | B2 | B2 | A0 | X0 | X0 | X0 | X0 | A0 | B2 | A0 | 00 | 80 | 80 |
| 735 | B2 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 00 | 80 | 80 |
| 736 | A0 | A0 | A0 | X0 | X0 | A0 | X0 | A0 | A0 | A0 | 90 | 80 | 80 |
| 737 | A0 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 00 | 80 | 80 |
| 738 | A0 | A0 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | A0 | 80 | 80 | 80 |
| 739 | A0 | A0 | A0 | A0 | X0 | X0 | A0 | A0 | B2 | B2 | 00 | 80 | 80 |
| 740 | B4 | B4 | A0 | X0 | X0 | X0 | X0 | A0 | B2 | B4 | 14 | 80 | 80 |
| 741 | D2 | E2 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 90 | 80 | 80 |
| 742 | C4 | C4 | A0 | A0 | X0 | X0 | A0 | A0 | C4 | C4 | 00 | 80 | 80 |
| 743 | E4 | C4 | AO | X0 | X0 | X0 | X0 | AO | C4 | C3 | 00 | 80 | 80 |
| 744 | B4 | B4 | AO | X0 | X0 | X0 | X0 | A0 | B5 | B4 | 12 | 80 | 80 |
| 745 | B4 | B2 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | A0 | 00 | 80 | 80 |
| 746 | B5 | B4 | A0 | X0 | X0 | X0 | X0 | A0 | B4 | B4 | 80 | 80 | 80 |
| 747 | B1 | B4 | A0 | X0 | X0 | X0 | X0 | A0 | B4 | B4 | 00 | 80 | 80 |
| 748 | C4 | C4 | B1 | A0 | X0 | X0 | A0 | C4 | C4 | C4 | 00 | 80 | 80 |
| 749 | B2 | B2 | A0 | X0 | X0 | X0 | X0 | A0 | B2 | B3 | 12 | 80 | 80 |
| 750 | B2 | B4 | A0 | X0 | X0 | X0 | X0 | A0 | B4 | B2 | 00 | 80 | 80 |
| 751 | B5 | B5 | B5 | X0 | X0 | X0 | X0 | B5 | B5 | B5 | 12 | 80 | 80 |
| 752 | M9 | C4 | C1 | A0 | X0 | X0 | A0 | C1 | C2 | M9 | 00 | 80 | 80 |
| 753 | B1 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | B1 | 00 | 80 | 80 |
| 754 | C2 | C4 | A0 | X0 | X0 | X0 | X0 | A0 | C4 | C2 | 80 | 80 | 80 |
| 755 | C3 | C4 | A0 | X0 | X0 | X0 | X0 | A0 | C4 | C4 | 22 | 80 | 80 |
| 756 | A0 | B2 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | 00 | 80 | 80 |
| 757 | C2 | A0 | AO | X0 | X0 | X0 | X0 | A0 | A0 | C2 | 80 | 80 | 80 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| No. | 45,85 | 44,84 | 43,83 | 42,82 | 41,81 | 31,71 | 32,72 | 33,73 | 34,74 | 35,75 | 36 | 37 | 38 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 801 | B1 | B4 | A0 | X0 | X0 | X0 | X0 | A0 | B4 | B5 | 14 | 80 | 80 |
| 802 | A0 | A0 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | A0 | 00 | 80 | 80 |
| 803 | C1 | C1 | A0 | X0 | X0 | X0 | X0 | A0 | E2 | A0 | 12 | 80 | 80 |
| 804 | D2 | C4 | A0 | X0 | X0 | X0 | X0 | A0 | C2 | C1 | 00 | 80 | 80 |
| 805 | C4 | C4 | A0 | X0 | X0 | X0 | X0 | A0 | C4 | M9 | 12 | 80 | 80 |
| 806 | C4 | C2 | A0 | X0 | X0 | X0 | X0 | A0 | E2 | E2 | 13 | 80 | 80 |
| 807 | B2 | B1 | A0 | X0 | X0 | X0 | X0 | AO | A0 | B5 | 00 | 80 | 80 |
| 808 | C4 | B2 | C1 | A0 | X0 | X0 | A0 | A0 | B2 | C4 | 80 | 80 | 80 |
| 809 | B4 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | E2 | C4 | 11 | 80 | 80 |
| 810 | A0 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 00 | 80 | 80 |
| 811 | B1 | B1 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | B2 | 80 | 80 | 80 |
| 812 | C4 | C4 | B1 | X0 | X0 | X0 | X0 | C1 | C4 | C4 | 00 | 80 | 80 |
| 813 | A0 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | AO | A0 | 00 | 80 | 80 |
| 814 | B3 | B2 | A0 | X0 | X0 | X0 | X0 | B1 | B2 | B4 | 00 | 80 | 80 |
| 815 | A0 | B1 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | B1 | 80 | 80 | 80 |
| 816 | B5 | M9 | A0 | A0 | X0 | X0 | A0 | B1 | M9 | B2 | 80 | 80 | 80 |
| 817 | B4 | B4 | B1 | X0 | X0 | X0 | X0 | A0 | B4 | B4 | 00 | 80 | 80 |
| 818 | B4 | B2 | A0 | A0 | X0 | X0 | A0 | A0 | B2 | B3 | 12 | 80 | 80 |
| 819 | C4 | C4 | A0 | A0 | X0 | X0 | A0 | A0 | C2 | M9 | 12 | 80 | 80 |
| 820 | B1 | A0 | A0 | A0 | X0 | X0 | X0 | A0 | A0 | B1 | 00 | 80 | 80 |
| 821 | B2 | B1 | A0 | X0 | X0 | X0 | X0 | A0 | B2 | B3 | 11 | 80 | 80 |
| 822 | C4 | C4 | A0 | X0 | X0 | X0 | X0 | A0 | C4 | C4 | 12 | 80 | 80 |
| 823 | M9 | M9 | A0 | X0 | X0 | X0 | X0 | A0 | C2 | C4 | 12 | 80 | 80 |
| 824 | A0 | A0 | AO | A0 | X0 | X0 | A0 | AO | A0 | A0 | 00 | 80 | 80 |
| 825 | B5 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | B1 | 00 | 80 | 80 |
| 826 | C4 | C4 | A0 | X0 | X0 | X0 | X0 | A0 | C4 | C4 | 12 | 80 | 80 |
| 827 | M9 | B2 | A0 | X0 | X0 | X0 | X0 | A0 | E2 | D3 | 21 | 80 | 80 |
| 828 | C1 | C1 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | C1 | 80 | 80 | 80 |
| 829 | B1 | B4 | AO | A0 | X0 | A0 | A0 | A0 | B2 | B1 | 00 | 80 | 80 |


| No. | 45,85 | 44,84 | 43,83 | 42,82 | 41,81 | 31,71 | 32,72 | 33,73 | 34,74 | 35,75 | 36 | 37 | 38 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 830 | B2 | B1 | B1 | A0 | X0 | X0 | A0 | B2 | B2 | B2 | 80 | 80 | 80 |
| 831 | A0 | B2 | A0 | A0 | X0 | X0 | A0 | A0 | C3 | C2 | 11 | 80 | 80 |
| 832 | B3 | B3 | A0 | A0 | X0 | X0 | A0 | A0 | B3 | B4 | 12 | 80 | 80 |
| 833 | B1 | B2 | A0 | A0 | X0 | X0 | A0 | A0 | B2 | B2 | 80 | 80 | 80 |
| 834 | C1 | E1 | A0 | X0 | X0 | X0 | X0 | A0 | D2 | E1 | 00 | 80 | 80 |
| 835 | A0 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | B1 | 12 | 80 | 80 |
| 836 | B1 | A0 | AO | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 00 | 80 | 80 |
| 837 | B1 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | M9 | 00 | 80 | 80 |
| 838 | A0 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | AO | A0 | 80 | 80 | 80 |
| 839 | A0 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | B2 | B1 | 11 | 80 | 80 |
| 840 | AO | B2 | A0 | A0 | X0 | A0 | A0 | AO | B2 | A0 | 00 | 80 | 80 |
| 841 | C1 | C1 | A0 | X0 | X0 | X0 | X0 | AO | C1 | C2 | 00 | 80 | 80 |
| 842 | B5 | B5 | B1 | X0 | X0 | X0 | X0 | B1 | B5 | B5 | 11 | 80 | 80 |
| 843 | E5 | E4 | B1 | X0 | X0 | X0 | X0 | B0 | E5 | E5 | 11 | 80 | 80 |
| 844 | B1 | B2 | AO | A0 | A0 | A0 | A0 | A0 | B2 | A0 | 80 | 80 | 80 |
| 845 | A0 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 00 | 80 | 80 |
| 846 | A0 | B2 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 00 | 80 | 80 |
| 847 | B2 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | B2 | B2 | 11 | 80 | 80 |
| 848 | E4 | E4 | C1 | X0 | X0 | X0 | X0 | C2 | C4 | B1 | 00 | 80 | 80 |
| 849 | B4 | M0 | B1 | A0 | X0 | X0 | A0 | D2 | M0 | C4 | 80 | 80 | 80 |
| 850 | B1 | A0 | A0 | A0 | X0 | X0 | A0 | A0 | AO | B1 | 00 | 80 | 80 |
| 851 | A0 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 00 | 80 | 80 |
| 852 | B5 | B5 | A0 | X0 | X0 | X0 | X0 | A0 | B4 | B5 | 11 | 80 | 80 |
| 853 | C4 | C4 | A0 | X0 | X0 | X0 | X0 | C2 | C4 | C4 | 00 | 80 | 80 |
| 854 | B2 | B4 | A0 | X0 | X0 | X0 | X0 | A0 | B4 | B4 | 00 | 80 | 80 |
| 855 | A0 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 00 | 80 | 80 |
| 856 | E2 | D2 | A0 | A0 | X0 | X0 | A0 | A0 | E3 | E4 | 80 | 80 | 80 |
| 857 | B5 | B4 | B1 | A0 | X0 | X0 | A0 | B1 | B3 | B5 | 11 | 80 | 80 |
| 858 | B2 | A0 | A0 | B0 | X0 | X0 | B0 | A0 | B3 | A0 | 00 | 80 | 80 |


| No. | 45,85 | 44,84 | 43,83 | 42,82 | 41,81 | 31,71 | 32,72 | 33,73 | 34,74 | 35,75 | 36 | 37 | 38 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 859 | A0 | A0 | A0 | A0 | X0 | X0 | X0 | A0 | A0 | A0 | 80 | 80 | 80 |
| 860 | B2 | B3 | B1 | X0 | X0 | X0 | X0 | A0 | B2 | B1 | 11 | 80 | 80 |
| 861 | C2 | C1 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 00 | 80 | 80 |
| 862 | C1 | C4 | A0 | X0 | X0 | X0 | A0 | A0 | C4 | C1 | 00 | 80 | 80 |
| 863 | A0 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | B2 | B2 | 11 | 80 | 80 |
| 864 | M9 | M9 | C1 | A0 | X0 | X0 | A0 | C1 | D3 | C4 | 11 | 80 | 80 |
| 865 | B2 | B2 | A0 | X0 | X0 | X0 | X0 | A0 | B2 | B1 | 80 | 80 | 80 |
| 866 | C2 | C2 | A0 | X0 | X0 | X0 | X0 | A0 | C2 | C2 | 21 | 80 | 80 |
| 867 | A0 | A0 | AO | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 00 | 80 | 80 |
| 868 | B1 | B1 | A0 | A0 | X0 | A0 | A0 | A0 | B1 | B2 | 80 | 80 | 80 |
| 869 | B1 | A0 | A0 | A0 | X0 | X0 | A0 | A0 | B2 | B1 | 00 | 80 | 80 |
| 870 | A0 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | A0 | 21 | 80 | 80 |
| 871 | B2 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | B2 | 00 | 80 | 80 |
| 872 | A0 | B2 | A0 | X0 | X0 | X0 | X0 | A0 | B2 | A0 | 80 | 80 | 80 |
| 873 | B2 | A0 | A0 | X0 | X0 | X0 | X0 | A0 | A0 | B1 | 00 | 80 | 80 |
| 901 | C1 | M0 | AO | A0 | A0 | B0 | A0 | A0 | M0 | C1 | 90 | 80 | 80 |
| 902 | B5 | B2 | A0 | A0 | X0 | X0 | B5 | B1 | C2 | C2 | 90 | 80 | 80 |
| 903 | B1 | B1 | A0 | A0 | A0 | A0 | A0 | A0 | A0 | B1 | 90 | 80 | 80 |
| 904 | B5 | B2 | A0 | A0 | X0 | X0 | A0 | A0 | B2 | B2 | 12 | 80 | 80 |
| 905 | B1 | A0 | A0 | A0 | X0 | X0 | A0 | A0 | A0 | B1 | 13 | 80 | 80 |
| 906 | B2 | B2 | A0 | A8 | X0 | X0 | X0 | A0 | B2 | A0 | 11 | 80 | 80 |
| 907 | C4 | C4 | A0 | AO | A0 | A0 | A0 | C4 | C4 | C4 | 00 | 80 | 80 |

## APPENDIX E

## Original Data

MCDP - 13-year-olds

| No. | School | Sex | D.O.B. | Init. Exam | Init. Age | 34 | Specify | Treatment | 35 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 401 | B A | M | 12/27/74 | 3/18/88 | 13.2238 | 0 | OH poor |  |  |
| 402 | B A | F | 7/31/74 | 3/18/88 | 13.6318 | 2 | OH fair | P\&F |  |
| 403 | B A | M | 4/16/74 | 3/24/87 | 12.9363 | 2 | OH poor | P\&F | 1 |
| 404 | B A | F | 7/28/74 | 3/18/88 | 13.6400 | 2 | OH good | P\&F, OHI |  |
| 405 | B A | F | 6/1/74 | 3/18/88 | 13.7960 | 1 | OH fair | P\&F, scale |  |
| 406 | B A | F | 11/10/74 | 3/18/88 | 13.3525 | 2 | OH fair | P\&F, OHI | 1 |
| 407 | CO | F | 11/7/74 | 10/28/87 | 12.9719 | 0 |  | Incomplete |  |
| 408 | C 0 | F | 11/7/74 | 10/29/87 | 12.9747 | 2 |  | P\&F, OHI |  |
| 409 | C O | F | 10/15/74 | 10/28/87 | 13.0349 | 0 |  | Incomplete |  |
| 410 | CO | M | 9/18/74 | 10/28/87 | 13.1088 | 2 |  | P\&F, OHI |  |
| 411 | CO | M | 4/26/74 | 10/28/87 | 13.5058 | 2 |  | P\&F, OHI |  |
| 412 | C 0 | F | 11/20/74 | 9/23/88 | 13.8426 | 2 |  | P\&F, OHI |  |
| 413 | C O | F | 6/18/74 | 10/28/87 | 13.3607 | 2 |  | Fl |  |
| 414 | JL | M | 10/9/74 | 1/18/88 | 13.2758 | 2 |  | P\&F, OHI |  |
| 415 | JL | M | 4/21/74 | 1/18/88 | 13.7440 | 2 |  | P\&F, OHI |  |
| 416 | JL | F | 9/27/74 | 1/18/88 | 13.3087 | 2 |  | P\&F, OHI |  |
| 417 | JL | F | 9/11/74 | 1/18/88 | 13.3525 | 2 |  | P\&F, OHI |  |
| 418 | M A | M | 5/2/74 | 9/9/87 | 13.3552 | 0 | OH fair (gingivitis) | - | 1 |
| 419 | M A | F | 7/10/74 | 9/9/87 | 13.1663 | 0 | OH good | - |  |
| 420 | M A | M | 6/22/74 | 9/9/87 | 13.2156 | 0 | OH poor (gingivitis) | - |  |
| 421 | M A | M | 5/7/74 | 9/9/87 | 13.3415 | 0 | OH fair | - |  |
| 422 | PD | F | 9/27/74 | 8/31/88 | 13.9274 | 2 |  | Fl. |  |
| 423 | T P | M | 1/18/74 | 1/28/87 | 13.0267 | 1 |  | scaling |  |
| 424 | T P | F | 11/21/74 | 1/22/88 | 13.1691 | 1 |  | P\&F OHI, scale |  |
| 425 | TP | F | 12/6/74 | 1/26/88 | 13.1389 | 0 |  | - |  |
| 426 | TP | F | 9/9/74 | 1/22/88 | 13.3689 | 2 |  | P\&F, OHI |  |
| 427 | W B | M | 9/10/74 | 2/16/88 | 13.4346 | 2 | OH poor, gingivitis | P\&F, OHI |  |
| 428 | W B | F | 4/2/74 | 2/16/88 | 13.8754 | 2 | OH fair | P\&F, OHI |  |
| 429 | W B | M | 7/27/74 | 2/16/88 | 13.5578 | 2 | OH poor | P\&F, OHI |  |


| No. | School | Sex | D.O.B. | Init. Exam | Init. Age | 34 | Specify | Treatment | 35 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 430 | W B | F | 5/6/74 | 2/16/88 | 13.7823 | 2 | OH poor | P\&F, OHI |  |
| 431 | W B | M | 5/6/74 | 2/16/88 | 13.7823 | 2 | OH poor | P\&F, OHI |  |
| 432 | W B | M | 2/21/74 | 2/16/88 | 13.9849 | 2 | OH fair | P\&F, OHI | 1 |
| 433 | W B | M | 5/8/74 | 2/16/88 | 13.7769 | 2 | OH fair, gingivitis | P\&F, OHI |  |
| 434 | W B | M | 3/15/74 | 2/16/88 | 13.9247 | 2 | ging., tongue tied, 31,41 sev. rec'n | P\&F, OHI |  |
| 435 | W B | F | 9/26/74 | 2/16/88 | 13.3908 | 2 | OH fair | P\&F, OHI |  |
| 436 | W N | M | 12/21/74 | 9/13/88 | 13.7303 | 0 | OH fair | - |  |
| 437 | W N | M | 11/16/74 | 9/9/88 | 13.8152 | 1 | OH poor | scaling |  |
| 438 | W N | M | 12/7/74 | 9/13/88 | 13.7687 | 0 | OH poor | - |  |
| 439 | W N | F | 4/22/74 | 9/11/87 | 13.3881 | 0 | OH poor | - |  |
| 440 | W N | F | 6/27/74 | 9/15/87 | 13.2183 | 0 | OH good | - | 1 |
| 441 | W N | M | 9/10/74 | 9/29/87 | 13.0513 | 1 | OH poor | P\&F,OHI,scale |  |
| 442 | W N | M | 7/6/74 | 9/11/87 | 13.1828 | 0 | OH poor | - |  |
| 443 | W N | M | 10/2/74 | 9/9/88 | 13.9384 | 2 |  | P\&F, OHI |  |
| 444 | W N | M | 2/1/74 | 9/15/87 | 13.6181 | 0 | OH poor | - |  |
| 445 | W N | M | 12/6/74 | 9/8/88 | 13.7577 | 2 |  | P\&F, OHI |  |
| 446 | W N | F | 9/9/74 | 9/9/88 | 14.0014 | 0 | OH good | - |  |
| 447 | W N | M | 5/8/74 | 9/15/87 | 13.3552 | 0 | OH poor | - |  |
| 501 | B A | M | 10/9/75 | 4/27/89 | 13.5496 | 2 | OH good | P\&F, OHI |  |
| 502 | B A | M | 9/16/75 | 4/27/89 | 13.6126 | 2 |  | P\&F, OHI |  |
| 503 | B A | M | 2/19/75 | 3/18/88 | 13.0760 | 0 | OH good | - |  |
| 504 | B A | F | 2/18/75 | 3/23/88 | 13.0924 | 2 |  | P\&F, OHI |  |
| 505 | B A | M | 9/18/75 | 4/27/89 | 13.6071 | 0 | OH poor | - |  |
| 506 | B A | M | 6/26/75 | 4/27/89 | 13.8371 | 1 |  | P\&F,OHI,scale |  |
| 507 | B R | M | 6/9/75 | 1/26/89 | 13.6345 | 2 |  | P\&F, OHI | 1 |
| 508 | B R | M | 7/14/75 | 10/26/88 | 13.2868 | 0 |  | - |  |
| 509 | B R | F | 4/22/75 | 10/26/88 | 13.5140 | 2 |  | P\&F, OHI |  |
| 510 | CO | M | 9/17/75 | 9/23/88 | 13.0185 | 2 |  | P\&F, OHI |  |


| No. | School | Sex | D.0.B. | Init. Exam | Init. Age | 34 | Specify | Treatment | 35 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 511 | CO | M | 4/24/75 | 9/23/88 | 13.4182 | 2 |  | P\&F, OHI |  |
| 512 | CO | F | 7/22/75 | 9/23/88 | 13.1745 | 1 |  | P\&F,OHI,scale |  |
| 513 | CO | M | 3/25/75 | 9/23/88 | 13.5003 | 2 |  | $\mathrm{OH}, \mathrm{Fl}$. |  |
| 514 | CO | M | 7/14/75 | 11/8/88 | 13.3224 | 0 |  | - | 1 |
| 515 | CO | F | 7/5/75 | 9/23/88 | 13.2211 | 0 |  | - |  |
| 516 | CO | F | 10/13/75 | 9/23/88 | 12.9473 | 2 |  | $\mathrm{OHI}, \mathrm{Fl}$. |  |
| 517 | CO | F | 2/14/75 | 12/20/88 | 13.8480 | 2 |  | $\mathrm{OHI}, \mathrm{Fl}$. |  |
| 518 | CO | M | 7/21/75 | 9/13/88 | 13.1499 | 2 |  | $\mathrm{OHI}, \mathrm{FI}$. | 1 |
| 519 | CO | M | 11/4/75 | 11/8/88 | 13.0130 | 2 |  | P\&F,OHI | 1 |
| 520 | CO | F | 7/23/75 | 11/8/88 | 13.2977 | 2 |  | OH, FI. |  |
| 521 | C 0 | F | 11/25/75 | 9/23/88 | 12.8296 | 2 |  | P\&F,OHI |  |
| 522 | C 0 | F | 11/2/75 | 9/23/88 | 12.8925 | 2 |  | $\mathrm{OH}, \mathrm{Fl}$. |  |
| 523 | CO | F | 7/19/75 | 9/23/88 | 13.1828 | 1 |  | P\&F,OHI,scale |  |
| 524 | C 0 | F | 10/5/75 | 9/23/88 | 12.9692 | 2 |  | OHI, FI. |  |
| 525 | C 0 | M | 12/25/75 | 9/23/88 | 12.7474 | 2 |  | P\&F, OHI |  |
| 526 | JL | M | 4/1/75 | 1/23/89 | 13.8152 | 1 |  | P\&F,OHI, scale |  |
| 527 | JL | F | 10/15/75 | 1/23/89 | 13.2758 | 1 |  | scale, P\&F | 1 |
| 528 | JL | M | 11/8/75 | 1/23/89 | 13.2101 | 1 |  | scale, P\&F | 1 |
| 529 | M A | M | 7/21/75 | 8/25/88 | 13.0979 | 2 |  | OH |  |
| 530 | PK | F | 4/4/75 | 1/25/89 | 13.8125 | 2 |  | Fl., OHI |  |
| 531 | PD | F | 9/18/75 | 8/31/88 | 12.9528 | 0 |  | - |  |
| 532 | PD | F | 4/8/75 | 8/25/88 | 13.3826 | 2 |  | OH |  |
| 533 | PD | F | 3/17/75 | 8/25/88 | 13.4428 | 2 |  | OHI, P\&F |  |
| 534 | S A | M | 10/16/75 | 9/26/89 | 13.9466 | 2 |  | P\&F |  |
| 535 | S A | M | 4/22/75 | 9/20/88 | 13.4155 | 0 | OH good | - |  |
| 536 | TP | F | 7/30/75 | 1/27/89 | 13.4976 | 0 |  | - |  |
| 537 | TP | M | 9/8/75 | 1/27/89 | 13.3881 | 1 |  | scale, P\&F |  |
| 538 | TP | F | 5/9/75 | 1/27/89 | 13.7221 | 0 |  | - |  |
| 539 | W B | F | 6/25/75 | 2/22/89 | 13.6646 | 2 | OH poor, marg. ging. | P\&F, OHI |  |


| No. | School | Sex | D.O.B. | Init. Exam | Init. Age | 34 | Specify | Treatment | 35 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 540 | W B | F | 10/7/75 | 2/27/89 | 13.3936 | 2 | OH poor | P\&F, OHI |  |
| 541 | W B | M | 9/3/75 | 2/22/89 | 13.4730 | 2 | OH poor | P\&F, OHI |  |
| 542 | W B | M | 4/25/75 | 4/14/89 | 13.9713 | 2 | OH poor | P\&F, OHI |  |
| 543 | W B | M | 8/20/75 | 2/22/89 | 13.5113 | 2 | Marg. ging. Mx. ant. OH fair | P\&F, OHI |  |
| 544 | W B | F | 3/8/75 | 2/16/88 | 12.9446 | 0 | OH fair | - |  |
| 545 | W B | F | 4/3/75 | 2/22/89 | 13.8919 | 2 | OH good | P\&F, OHI |  |
| 546 | W B | F | 2/21/75 | 2/16/88 | 12.9856 | 0 | OH good | - |  |
| 547 | W B | M | 5/7/75 | 2/22/89 | 13.7988 | 0 | OH good | - | 1 |
| 548 | W B | F | 8/1/75 | 2/22/89 | 13.5633 | 2 | OH fair, marg. ging. ant. | P\&F, OHI |  |
| 549 | W B | F | 4/4/75 | 2/22/89 | 13.8891 | 2 | OH fair | $\mathrm{OH}, \mathrm{Fl}$. |  |
| 550 | W N | F | 9/18/75 | 9/20/89 | 14.0068 | 0 |  | - |  |
| 551 | W N | M | 8/5/75 | 9/8/88 | 13.0951 | 2 | OH good | P\&F, OHI |  |
| 552 | W N | M | 9/27/75 | 9/20/89 | 13.9822 | 0 |  | - |  |
| 553 | W N | M | 3/24/75 | 9/8/88 | 13.4620 | 0 |  | - |  |
| 554 | W N | F | 4/18/75 | 9/8/88 | 13.3936 | 1 |  | scaling |  |
| 555 | W N | F | 12/12/75 | 9/7/89 | 13.7385 | 0 |  | - | 1 |
| 556 | W N | M | 10/18/75 | 9/7/89 | 13.8891 | 0 | OH good | - |  |
| 557 | W N | F | 12/13/75 | 9/20/89 | 13.7714 | 0 | OH good | - |  |
| 558 | W N | M | 5/30/75 | 9/8/88 | 13.2786 | 0 | OH good | - |  |
| 559 | W N | M | 8/27/75 | 9/8/88 | 13.0349 | 2 | Dilantin Hyper. OH poor | P\&F, OHI |  |
| 560 | W N | F | 11/6/75 | 9/7/89 | 13.8371 | 1 | OH poor | P\&F,OHI, scale |  |
| 561 | W N | M | 3/23/75 | 4/27/89 | 14.0972 |  | OH poor | - |  |
| 562 | W N | F | 6/23/75 | 4/27/89 | 13.8453 |  | OH fair | - |  |
| 563 | W N | M | 11/27/75 | 4/27/89 | 13.4155 |  |  | - |  |
| 564 | W N | F | 5/16/75 | 4/27/89 | 13.9493 |  | OH fair | - |  |
| 565 | W N | M | 5/12/75 | 4/27/89 | 13.9603 |  | OH good | - |  |
| 566 | W N | F | 9/9/75 | 4/27/89 | 13.6318 |  |  | - |  |
| 567 | W N | M | 7/22/75 | 4/27/89 | 13.7659 |  |  | - |  |
| 568 | W N | F | 2/6/75 | 4/27/89 | 14.2204 |  | OH poor | - |  |


| No. | Specify | TX. | 36 | Specify | TX. | 37 | 38 | Fl | 40 | 41 | 56 | D. F. Anom. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 401 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 402 |  |  |  |  |  |  |  |  |  |  | 0 | Diastema 11-21 (1mm.) |
| 403 | 14 deformed |  |  |  |  |  |  |  |  |  | 0 |  |
| 404 |  |  |  |  |  |  |  |  |  |  | 0 | Crowding 41/42 |
| 405 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 406 | 15,25 cong. absent |  |  |  |  |  |  |  |  |  | 0 | 15,25 Cong. Missing, 32 Linguoversion |
| 407 |  |  |  |  |  |  |  | ? |  |  | 0 |  |
| 408 |  |  |  |  |  |  |  | 1 |  |  | 0 |  |
| 409 |  |  |  |  |  |  |  | 1 |  |  | 0 |  |
| 410 |  |  |  |  |  |  |  | 1 |  |  | 0 |  |
| 411 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 412 |  |  |  |  |  |  |  | 1 |  |  | 0 |  |
| 413 |  |  |  |  |  |  |  | 1 |  |  | 0 | 45 missing-ext'n 1982 |
| 414 |  |  |  |  |  |  |  |  |  |  | 0 | Midline shift 3 mm . L |
| 415 |  |  |  |  |  |  |  |  |  |  | 0 | CI I left, Cl II right |
| 416 |  |  |  |  |  |  |  |  |  |  | 2 | 12, 16/26 x-bite, Ortho consult req'd |
| 417 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 418 | 35B hypocalc'n |  |  |  |  |  |  |  |  |  | 0 | Crowding lower ant's |
| 419 |  |  |  |  |  |  |  |  |  |  | 1 | Midline shift 2 mm . R, CI III tendency |
| 420 |  |  |  |  |  |  |  |  |  |  | 1 | 11,41,22,32 x-bite, CI I L. CI III R. |
| 421 |  |  |  |  |  |  |  |  |  |  | 2 | Midline shift 2mm.R |
| 422 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 423 |  |  |  |  |  |  |  |  |  |  | 0 | Cl. II |
| 424 |  |  |  |  |  |  |  |  |  |  | 1 | 12 edge/edge, Cl. I L. Cl. II R., 15 missing |
| 425 |  |  |  |  |  |  |  |  |  |  | 1 | Midline shift 2mm.R, Ant. openbite |
| 426 |  |  |  |  |  |  |  |  |  |  | 2 | 26/36 x-bite, Ant. open bite |
| 427 |  |  |  |  |  |  |  |  |  |  | 0 | Max. ant. spacing |
| 428 |  |  |  |  |  |  |  |  |  |  | 1 | Midline shift 3mm.R, Cl. I L. Cl. II R. |
| 429 |  |  |  |  |  |  |  |  |  |  | 2 | 22/32 x-bite, Max. ant. crowding |


| No. | Specify | TX. | 36 | Specify | TX. | 37 | 38 | FI | 40 | 41 | 56 | D. F. Anom. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 430 |  |  |  |  |  |  |  |  |  |  | 0 | Midline shift 2mm. R, CI. II |
| 431 |  |  |  |  |  |  |  |  |  |  | 0 | Crowding Md. ant's, Cl . II |
| 432 | 33 hypocalc. |  |  |  |  |  |  |  |  |  | 1 | Midline shift 2 mm . R, Cl. III L. CI. II R. |
| 433 |  |  |  |  |  |  |  |  |  |  | 2 | 13, 23 impacted |
| 434 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 435 |  |  |  |  |  |  |  |  |  |  | 1 | 14 ext'd, 25 to be ext'd, Cl. II |
| 436 |  |  |  |  |  |  |  |  |  |  | 2 | Ortho Tx |
| 437 |  |  |  |  |  |  |  |  |  |  | 1 | 12,22,23,42,43 $x$-bite |
| 438 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 439 |  |  |  |  |  |  |  |  |  |  | 1 | 13/43 x-bite, Cl. III |
| 440 | 25 hypocalc.(bu\&li) |  |  |  |  |  |  |  |  |  | 1 | Mid. shift 2mm.L; 25/35,45 x-bite, Cl.II |
| 441 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 442 |  |  |  |  |  |  |  |  |  |  | 0 | Crowding Max. ant's |
| 443 |  |  |  |  |  |  |  |  |  |  | 1 | Midline shift 2mm.L |
| 444 |  |  |  |  |  |  |  |  |  |  | 1 | 35 \& 45 part. blocked, crowding Max. ant's |
| 445 |  |  |  |  |  |  |  |  |  |  | 1 | Ant. openbite, crowding Max \& Md. |
| 446 |  |  |  |  |  |  |  |  |  |  | 2 | Ortho Tx. Cl. II |
| 447 |  |  |  |  |  |  |  |  |  |  | 1 | 15 x-bite, Cl. III |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 501 |  |  |  |  |  |  |  | 1 |  |  | 2 | Ortho-15 x-bite |
| 502 |  |  |  |  |  |  |  | 1 |  |  | 0 |  |
| 503 |  |  |  |  |  |  |  | 1 |  |  | 1 | Ant. openbite-tongue thrust, Cl . II |
| 504 |  |  |  |  |  |  |  |  |  |  | 1 | Ant. openbite-thumb sucking, CI. II |
| 505 |  |  |  |  |  |  |  | 1 |  |  | 1 | Midline shift 1mm.R |
| 506 |  |  |  |  |  |  |  | 1 |  |  | 0 |  |
| 507 | 14 hypoplastic |  |  |  |  |  |  | 1 |  |  | 0 |  |
| 508 |  |  |  |  |  |  |  | 1 |  |  | 0 |  |
| 509 |  |  |  |  |  |  |  | 1 |  |  | 2 | Ortho Tx. complete post x -bite |
| 510 |  |  |  |  |  |  |  | 1 |  |  | 1 | Midline shift 2mm.R |


| No. | Specify | TX. | 36 | Specify | TX. | 37 | 38 | FI | 40 | 41 | 56 | D. F. Anom. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 511 |  |  |  |  |  |  |  | 1 |  |  | 1 | Midline shift 4 mm., 46 mes. drift |
| 512 |  |  |  |  |  |  |  | 1 |  |  | 1 | Midline shift $4 \mathrm{~mm} . \mathrm{R}$ |
| 513 | 22 hypoplastic |  |  |  |  |  |  | 1 |  |  | 1 | Ant. openbite 3mm. |
| 514 |  |  |  |  |  |  |  | 1 |  |  | 2 | Ortho consult-ant. crowding |
| 515 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 516 |  |  |  |  |  |  |  | 1 |  |  | 0 |  |
| 517 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 518 | 21supernum.ext.' 82 |  |  |  |  |  |  | 1 |  |  | 1 | 15 ectopic erupt'n, gen. crowding |
| 519 | 26MB hypoplastic |  |  |  |  |  |  | 1 |  |  | 0 |  |
| 520 |  |  |  |  |  |  |  | 1 |  |  | 0 |  |
| 521 |  |  |  |  |  |  |  | 1 |  |  | 0 |  |
| 522 |  |  |  |  |  |  |  | 1 |  |  | 0 |  |
| 523 |  |  |  |  |  |  |  | 1 |  |  | 0 |  |
| 524 |  |  |  |  |  |  |  | 1 |  |  | 0 |  |
| 525 |  |  |  |  |  |  |  | 1 |  |  | 1 | O.J. 6mm. O.B. 100\% |
| 526 |  |  |  |  |  |  |  | 1 |  |  | 2 | Ortho consult-7mm. OJ |
| 527 | 23 supernum. |  |  |  |  |  |  | 1 |  |  | 2 | Ortho consult-13 x-bite |
| 528 | 12,22 supernum. |  |  |  |  |  |  | 1 |  |  | 0 |  |
| 529 |  |  |  |  |  |  |  |  |  |  | 1 | Midline shift 2mm.L, Max. ant. spacing |
| 530 |  |  |  |  |  |  |  |  |  |  | 2 | Midline shift 3mm.L;22,23 x-bite |
| 531 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 532 |  |  |  |  |  |  |  |  |  |  | 2 | Ortho Tx. L ant. crowding, Cl.III tend. |
| 533 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 534 |  |  |  |  |  |  |  |  |  |  | 2 | Ortho consult-11/21 overlapped |
| 535 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 536 |  |  |  |  |  |  |  | 1 |  |  | 0 |  |
| 537 |  |  |  |  |  |  |  |  |  |  | 2 | Ortho consult 8mm. O.J. |
| 538 |  |  |  |  |  |  |  | 1 |  |  | 2 | Midline shift 2mm.L, 14, 15,17,25 x-bite |
| 539 |  |  |  |  |  |  |  | 1 |  |  | 1 | Midline shift 2mm.L |


| No. | Specify | TX. | 36 | Specify | TX. | 37 | 38 | FI | 40 | 41 | 56 | D. F. Anom. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 540 |  |  |  |  |  |  |  |  |  |  | 2 | Ortho consult - crowding |
| 541 |  |  |  |  |  |  |  | 1 |  |  | 0 | CI. III tendency |
| 542 |  |  |  |  |  |  |  |  |  |  | 2 | O.J. 12 mm ., Cl. II |
| 543 |  |  |  |  |  |  |  | 1 |  |  | 0 | Cl. Ill tendency |
| 544 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 545 |  |  |  |  |  |  |  |  |  |  | 2 | Ortho Tx.,12,15,16 x-bite; 13,23 Cong.miss. |
| 546 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 547 | 32 supernum. |  |  |  |  |  |  |  |  |  | 1 | Midline shift $2 \mathrm{~mm} . \mathrm{R}, \mathrm{Cl} . \mathrm{I} \mathrm{L} . \mathrm{Cl}$. II R. |
| 548 |  |  |  |  |  |  |  |  |  |  | 1 | O.J. 6 mm ., CI. II L. Cl. I R. |
| 549 |  |  |  |  |  |  |  |  |  |  | 0 | Cl I I L. Cl. II R. |
| 550 |  |  |  |  |  |  |  |  |  |  | 1 | bilateral x -bite |
| 551 |  |  |  |  |  |  |  |  |  |  | 2 | Ortho Tx. 12,22 x-bite |
| 552 |  |  |  |  |  |  |  |  |  |  | 1 | Midline shift 2mm.L |
| 553 |  |  |  |  |  |  |  |  |  |  | 1 | 15 x -bite |
| 554 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 555 | 15 hypocalc. |  |  |  |  |  |  |  |  |  | 1 | Midline shift $2 \mathrm{~mm} . \mathrm{R}$ |
| 556 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 557 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 558 |  |  |  |  |  |  |  |  |  |  | 1 | Cl. III |
| 559 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 560 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 561 |  |  |  |  |  |  |  |  |  |  |  | Midline shift 2 mm . |
| 562 |  |  |  |  |  |  |  |  |  |  | 2 | Ortho Tx. Midline shift 3mm.R |
| 563 |  |  |  |  |  |  |  |  |  |  | 2 | Ortho Tx. 10 mm . O.J. |
| 564 |  |  |  |  |  |  |  |  |  |  | 1 | Ortho consult -13 labioversion |
| 565 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 566 |  |  |  |  |  |  |  |  |  |  | 1 | O.J. 6 mm . 0.B. $80 \%$ |
| 567 |  |  |  |  |  |  |  |  |  |  | 0 |  |
| 568 |  |  |  |  |  |  |  |  |  |  | 1 | Midline shift 4mm.L; 45 impacted |


| No. | Molars | O.J. | O.B. | Crowd. | 61 | 62 | 63 | 64 | X-rays | 18 | 17 | 16 | 15,55 | 14,54 | 13,53 | 12,52 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 401 | 1 | 1 | 1 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 21 | 00 | 00 | 00 | 00 |
| 402 | 2 | 2 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 22 | 00 | 00 | 00 | 00 |
| 403 | 1 | 2 | 2 |  | 0 | 1 | 0 | 0 | 0 | 80 | 00 | 00 | 00 | 33 | 00 | 00 |
| 404 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 12 | 00 | 21 | 00 | 11 |
| 405 | 1 | 2 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 11 | 00 | 00 | 00 | 00 | 00 |
| 406 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 21 | 22 | 69 | 00 | 00 | 00 |
| 407 | 1 | 1 | 3 |  | 0 | 0 | 0 | 0 | 0 | 80 | 11 | 22 | 00 | 00 | 00 | 00 |
| 408 | 1 | 3 | 3 |  | 0 | 0 | 0 | 0 | 0 | 80 | 00 | 00 | 00 | 00 | 00 | 00 |
| 409 | 2 | 2 | 3 |  | 0 | 0 | 0 | 0 | 0 | 80 | 22 | 22 | 00 | 11 | 00 | 21 |
| 410 | 1 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 11 | 43 | 11 | 00 | 00 | 00 |
| 411 | 1 | 1 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 21 | 23 | 23 | 22 | 00 | 11 |
| 412 | 1 | 1 | 1 |  | 0 | 0 | 0 | 0 | 1 | 80 | 21 | 23 | 00 | 21 | 00 | 21 |
| 413 | 1 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 80 | 11 | 21 | 00 | 00 | 00 | 00 |
| 414 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 00 | 21 | 00 | 00 | 00 | 00 |
| 415 | 2 | 2 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 21 | 22 | 00 | 00 | 00 | 00 |
| 416 | 1 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 23 | 00 | 00 | 00 | 00 |
| 417 | 1 | 1 | 1 |  | 0 | 0 | 0 | 0 | 1 | 80 | 11 | 22 | 00 | 12 | 00 | 42 |
| 418 | 1 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 80 | 00 | 23 | 00 | 00 | 00 | 21 |
| 419 | 3 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 80 | 00 | 22 | 00 | 00 | 00 | 21 |
| 420 | 3 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 22 | 00 | 00 | 00 | 22 |
| 421 | 1 | 2 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 12 | 22 | 00 | 21 | 00 | 11 |
| 422 | 1 | 1 | 1 |  | 0 | 0 | 0 | 0 | 1 | 80 | 12 | 22 | 00 | 00 | 00 | 00 |
| 423 | 2 | 2 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 00 | 00 | 00 | 00 | 00 |
| 424 | 2 | 1 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 21 | 22 | 68 | 00 | 00 | 00 |
| 425 | 1 | 1 | 1 |  | 0 | 0 | 0 | 0 | 0 | 80 | 00 | 21 | 00 | 00 | 00 | 00 |
| 426 | 2 | 2 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 00 | 00 | 00 | 00 | 00 |
| 427 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 21 | 00 | 00 | 00 | 00 |
| 428 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 22 | 21 | 00 | 21 | 00 | 00 |
| 429 | 1 | 1 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 11 | 22 | 00 | 21 | 21 | 31 |

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| No. | Molars | O.J. | O.B. | Crowd. | 61 | 62 | 63 | 64 | X-rays | 18 | 17 | 16 | 15,55 | 14,54 | 13,53 | 12,52 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 430 | 2 | 2 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 22 | 21 | 00 | 00 | 00 | 11 |
| 431 | 2 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 21 | 24 | 00 | 00 | 00 | 00 |
| 432 | 2 | 1 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 11 | 21 | 00 | 00 | 00 | 21 |
| 433 | 2 | 1 | 2 | 1 | 1 | 0 | 1 | 0 | 1 | 80 | 00 | 21 | 00 | 00 | 80 | 00 |
| 434 | 1 | 2 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 22 | 22 | 00 | 00 | 00 | 00 |
| 435 | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 80 | 11 | 22 | 21 | 68 | 00 | 00 |
| 436 | - | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 80 | 00 | 00 | 00 | 68 | 00 | 00 |
| 437 | 1 | 3 | 2 |  | 0 | 0 | 0 | 1 | 1 | 80 | 00 | 22 | 21 | 68 | 00 | 21 |
| 438 | 1 | 3 | 1 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 21 | 00 | 00 | 00 | 00 |
| 439 | 3 | 3 | 3 |  | 0 | 0 | 0 | 0 | 0 | 80 | 21 | 21 | 00 | 00 | 00 | 00 |
| 440 | 2 | 2 | 2 |  | 0 | 0 | 0 | 0 | 0 | 80 | 00 | 21 | 21 | 00 | 00 | 00 |
| 441 | 1 | 2 | 1 |  | 0 | 0 | 0 | 0 | 0 | 80 | 00 | 22 | 00 | 00 | 00 | 00 |
| 442 | 1 | 3 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 80 | 00 | 21 | 00 | 00 | 00 | 11 |
| 443 | 1 | 1 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 22 | 00 | 00 | 00 | 00 |
| 444 | 1 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 80 | 00 | 23 | 23 | 00 | 00 | 00 |
| 445 | 1 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 21 | 22 | 00 | 00 | 00 | 00 |
| 446 | 2 | 2 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 00 | 00 | 00 | 00 | 00 |
| 447 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 90 | 23 | 11 | 00 | 00 | 00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 501 | 1 | 1 | 1 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 21 | 00 | 00 | 00 | 00 |
| 502 | 2 | 3 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 22 | 00 | 68 | 00 | 00 |
| 503 | 2 | 2 | 1 |  | 0 | 0 | 0 | 0 | 1 | 80 | 11 | 22 | 22 | 00 | 00 | 00 |
| 504 | 2 | 2 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 11 | 12 | 80 | 00 | 00 | 00 |
| 505 | 1 | 2 | 2 |  | 0 | 0 | 0 | 1 | 1 | 80 | 11 | 22 | 00 | 00 | 80 | 11 |
| 506 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 21 | 00 | 00 | 00 | 00 |
| 507 | 1 | 1 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 22 | 22 | 00 | 23 | 00 | 00 |
| 508 | 1 | 1 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 22 | 13 | 12 | 00 | 00 |
| 509 | 1 | - | - |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 23 | 00 | 68 | 00 | 12 |
| 510 | 1 | 2 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 12 | 22 | 00 | 00 | 00 | 00 |

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| No. | Molars | O.J. | O.B. | Crowd. | 61 | 62 | 63 | 64 | X-rays | 18 | 17 | 16 | 15,55 | 14,54 | 13,53 | 12,52 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 511 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 22 | 22 | 00 | 00 | 00 | 00 |
| 512 | 1 | 2 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 11 | 42 | 13 | 12 | 00 | 00 |
| 513 | 1 | 1 | 3 |  | 0 | 0 | 0 | 0 | 0 | 80 | 90 | 22 | 90 | 00 | 90 | 00 |
| 514 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 80 | 80 | 42 | 00 | 11 | 00 | 21 |
| 515 | 1 | 3 | 2 |  | 0 | 0 | 0 | 1 | 1 | 80 | 12 | 23 | 43 | 00 | 00 | 00 |
| 516 | 1 | 3 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 32 | 23 | 33 | 32 | 00 | 21 |
| 517 | 1 | 1 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 31 | 21 | 00 | 00 | 00 | 00 |
| 518 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 23 | 42 | 32 | 22 | 11 | 21 |
| 519 | 1 | 2 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 11 | 32 | 00 | 00 | 00 | 31 |
| 520 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 22 | 22 | 00 | 00 | 00 | 00 |
| 521 | 1 | 3 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 12 | 32 | 00 | 00 | 00 | 00 |
| 522 | 1 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 22 | 22 | 43 | 12 | 00 | 21 |
| 523 | 1 | 1 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 12 | 22 | 00 | 00 | 00 | 00 |
| 524 | 2 | 2 | 2 |  | 0 | 0 | 0 | 0 | 0 | 80 | 90 | 23 | 00 | 00 | 00 | 00 |
| 525 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 80 | 90 | 41 | 11 | 00 | 00 | 00 |
| 526 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 00 | 00 | 00 | 00 | 00 |
| 527 | 2 | 2 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 11 | 22 | 00 | 11 | 00 | 00 |
| 528 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 00 | 00 | 68 | 00 | 00 |
| 529 | 1 | 3 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 22 | 00 | 00 | 00 | 00 |
| 530 | 3 | 3 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 21 | 21 | 00 | 00 | 00 | 00 |
| 531 | 1 | 3 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 11 | 50 | 00 | 00 | 00 | 00 |
| 532 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 23 | 00 | 00 | 00 | 21 |
| 533 | 1 | 1 | 1 |  | 1 | 0 | 1 | 0 | 1 | 80 | 11 | 31 | 00 | 00 | 00 | 00 |
| 534 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 21 | 00 | 00 | 00 | 00 |
| 535 | 1 | 1 | 2 |  | 0 | 0 | 0 | 0 | 0 | 80 | 00 | 21 | 00 | 00 | 00 | 00 |
| 536 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 80 | 11 | 22 | 00 | 00 | 00 | 21 |
| 537 | 2 | 2 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 11 | 21 | 00 | 41 | 00 | 00 |
| 538 | 1 | 3 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 22 | 50 | 00 | 00 | 00 | 00 |
| 539 | 3 | 3 | 1 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 22 | 00 | 00 | 00 | 00 |


| No. | Molars | O.J. | O.B. | Crowd. | 61 | 62 | 63 | 64 | X-rays | 18 | 17 | 16 | 15,55 | 14,54 | 13,53 | 12,52 |
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| 540 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 11 | 11 | 00 | 00 | 00 | 00 |
| 541 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 22 | 00 | 00 | 00 | 21 |
| 542 | 2 | 2 | 2 |  | 1 | 1 | 1 | 0 | 0 | 80 | 11 | 21 | 11 | 21 | 00 | 41 |
| 543 | 1 | 2 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 22 | 00 | 00 | 80 | 21 |
| 544 | 1 | 2 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 22 | 21 | 00 | 00 | 00 | 00 |
| 545 | 2 | 3 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 21 | 21 | 00 | 00 | 69 | 00 |
| 546 | 3 | 3 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 21 | 00 | 00 | 00 | 00 |
| 547 | 2 | 1 | 2 |  | 0 | 0 | 0 | 0 | 0 | 80 | 90 | 22 | 90 | 00 | 00 | 00 |
| 548 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 00 | 00 | 00 | 00 | 00 |
| 549 | 2 | 3 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 21 | 22 | 21 | 00 | 00 | 00 |
| 550 | 1 | 3 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 43 | 42 | 00 | 00 | 00 | 00 |
| 551 | 2 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 23 | 00 | 08 | 00 | 00 |
| 552 | 1 | 1 | 1 |  | 0 | 0 | 0 | 0 | 1 | 80 | 80 | 32 | 80 | 00 | 80 | 11 |
| 553 | 3 | 3 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 21 | 00 | 00 | 00 | 00 |
| 554 | 1 | 1 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 00 | 00 | 00 | 00 | 00 |
| 555 | 2 | 1 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 21 | 22 | 22 | 00 | 00 | 00 |
| 556 | 1 | 3 | 1 |  | 0 | 0 | 0 | 0 | 1 | 80 | 21 | 23 | 00 | 00 | 00 | 21 |
| 557 | 1 | 2 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 00 | 00 | 00 | 00 | 00 |
| 558 | 3 | 3 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 21 | 00 | 00 | 00 | 00 |
| 559 | 1 | 2 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 11 | 22 | 00 | 00 | 00 | 00 |
| 560 | 3 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 22 | 00 | 21 | 11 | 21 |
| 561 | 3 | 3 | 3 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 00 | 00 | 00 | 00 | 00 |
| 562 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 80 | 21 | 24 | 00 | 68 | 00 | 00 |
| 563 | 3 | 2 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 21 | 22 | 00 | 00 | 00 | 00 |
| 564 | 2 | 1 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 22 | 23 | 22 | 21 | 00 | 00 |
| 565 | 1 | 1 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 21 | 21 | 00 | 00 | 00 | 00 |
| 566 | 1 | 2 | 2 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 21 | 00 | 00 | 00 | 00 |
| 567 | 3 | 1 | 1 |  | 0 | 0 | 0 | 0 | 1 | 80 | 00 | 21 | 00 | 00 | 00 | 00 |
| 568 | 1 | 2 | 2 |  | 0 | 0 | 0 | 1 | 1 | 80 | 21 | 21 | 00 | 00 | 00 | 21 |

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| No. | 11,51 | 21,61 | 22,62 | 23,63 | 24,64 | 25,65 | 26 | 27 | 28 | 48 | 47 | 46 | 45,85 | 44,84 | 43,83 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 401 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 00 | 80 | 80 | 21 | 21 | 00 | 00 | 00 |
| 402 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 00 | 80 | 80 | 11 | 22 | 00 | 00 | 00 |
| 403 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 00 | 80 | 80 | 21 | 22 | 00 | 00 | 00 |
| 404 | 00 | 00 | 11 | 00 | 12 | 00 | 00 | 12 | 80 | 80 | 00 | 22 | 21 | 11 | 00 |
| 405 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 21 | 22 | 00 | 00 | 00 |
| 406 | 00 | 00 | 00 | 00 | 00 | 69 | 22 | 12 | 80 | 80 | 22 | 22 | 21 | 00 | 00 |
| 407 | 22 | 00 | 00 | 00 | 00 | 00 | 22 | 80 | 80 | 80 | 00 | 22 | 00 | 00 | 00 |
| 408 | 00 | 00 | 00 | 00 | 21 | 00 | 21 | 00 | 80 | 80 | 00 | 22 | 00 | 00 | 00 |
| 409 | 00 | 00 | 21 | 00 | 11 | 11 | 22 | 12 | 80 | 80 | 11 | 42 | 00 | 00 | 00 |
| 410 | 21 | 21 | 00 | 00 | 00 | 00 | 31 | 11 | 80 | 80 | 00 | 22 | 00 | 00 | 00 |
| 411 | 00 | 00 | 00 | 00 | 12 | 43 | 22 | 21 | 80 | 80 | 22 | 23 | 32 | 12 | 00 |
| 412 | 00 | 00 | 00 | 00 | 21 | 00 | 50 | 12 | 80 | 80 | 21 | 22 | 00 | 00 | 00 |
| 413 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 | 80 | 00 | 22 | 50 | 00 | 00 |
| 414 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 00 | 80 | 80 | 00 | 11 | 00 | 00 | 00 |
| 415 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 21 | 80 | 80 | 12 | 11 | 00 | 00 | 00 |
| 416 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 80 | 80 | 80 | 00 | 21 | $C 9$ | 00 | 00 |
| 417 | 42 | 22 | 21 | 00 | 21 | 22 | 32 | 11 | 80 | 80 | 22 | 22 | 21 | 00 | 00 |
| 418 | 00 | 00 | 00 | 00 | 22 | 00 | 23 | 00 | 80 | 80 | 21 | 22 | 00 | 00 | 00 |
| 419 | 00 | 11 | 21 | 00 | 00 | 00 | 21 | 80 | 80 | 80 | 00 | 21 | 00 | 00 | 00 |
| 420 | 21 | 21 | 21 | 00 | 00 | 00 | 22 | 00 | 80 | 80 | 12 | 22 | 00 | 00 | 00 |
| 421 | 11 | 00 | 00 | 00 | 11 | 00 | 22 | 12 | 80 | 80 | 22 | 21 | 00 | 00 | 00 |
| 422 | 11 | 11 | 00 | 00 | 00 | 00 | 22 | 11 | 80 | 80 | 12 | 11 | 00 | 00 | 00 |
| 423 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 11 | 21 | 00 | 00 | 00 |
| 424 | 00 | 22 | 22 | 00 | 00 | 21 | 22 | 11 | 80 | 80 | 22 | 22 | 11 | 00 | 00 |
| 425 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 00 | 80 | 80 | 11 | 22 | 00 | 00 | 00 |
| 426 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 | 80 | 12 | 21 | 00 | 00 | 00 |
| 427 | 00 | 00 | 21 | 00 | 00 | 00 | 21 | 00 | 80 | 80 | 11 | 22 | 00 | 00 | 00 |
| 428 | 11 | 21 | 00 | 00 | 32 | 00 | 21 | 21 | 80 | 80 | 21 | 22 | 21 | 21 | 00 |
| 429 | 21 | 00 | 21 | 11 | 00 | 00 | 22 | 00 | 80 | 80 | 31 | 23 | 00 | 00 | 00 |


| No. | 11,51 | 21,61 | 22,62 | 23,63 | 24,64 | 25,65 | 26 | 27 | 28 | 48 | 47 | 46 | 45,85 | 44,84 | 43,83 |
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| 430 | 00 | 00 | 11 | 00 | 00 | 00 | 21 | 21 | 80 | 80 | 22 | 23 | 00 | 00 | 00 |
| 431 | 00 | 00 | 00 | 00 | 00 | 00 | 32 | 21 | 80 | 80 | 21 | 50 | 00 | 00 | 00 |
| 432 | 22 | 21 | 21 | 21 | 00 | 00 | 00 | 00 | 80 | 80 | 80 | 22 | 00 | 00 | 00 |
| 433 | 00 | 00 | 00 | 80 | 00 | 00 | 31 | 00 | 80 | 80 | 00 | 22 | 12 | 00 | 00 |
| 434 | 00 | 00 | 00 | 00 | 00 | 21 | 22 | 21 | 80 | 80 | 21 | 22 | 12 | 21 | 00 |
| 435 | 00 | 00 | 00 | 00 | 00 | 08 | 22 | 11 | 80 | 80 | 00 | 22 | 00 | 00 | 00 |
| 436 | 00 | 00 | 00 | 00 | 68 | 00 | 00 | 00 | 80 | 80 | 00 | 00 | 68 | 00 | 00 |
| 437 | 00 | 00 | 21 | 00 | 68 | 00 | 22 | 00 | 80 | 80 | 21 | 23 | 00 | 08 | 00 |
| 438 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 00 | 80 | 80 | 00 | 21 | 00 | 00 | 00 |
| 439 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 21 | 80 | 80 | 21 | 21 | 00 | 00 | 00 |
| 440 | 00 | 00 | 00 | 00 | 68 | 00 | 22 | 00 | 80 | 80 | 12 | 21 | 00 | 00 | 00 |
| 441 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 | 80 | 11 | 21 | 00 | 00 | 00 |
| 442 | 11 | 11 | 11 | 00 | 00 | 00 | 22 | 00 | 80 | 80 | 11 | 22 | 00 | 00 | 00 |
| 443 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 | 80 | 00 | 00 | 00 | 00 | 00 |
| 444 | 00 | 00 | 00 | 00 | 21 | 22 | 23 | 00 | 80 | 80 | 22 | 22 | 00 | 00 | 00 |
| 445 | 00 | 00 | 00 | 00 | 00 | 11 | 44 | 12 | 80 | 80 | 12 | 22 | 00 | 21 | 00 |
| 446 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 21 | 80 | 80 | 00 | 21 | 00 | 00 | 00 |
| 447 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 90 | 80 | 80 | 80 | 22 | 90 | 00 | 00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 501 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 00 | 80 | 80 | 00 | 22 | 00 | 00 | 00 |
| 502 | 00 | 00 | 21 | 00 | 68 | 00 | 00 | 00 | 80 | 80 | 00 | 22 | 00 | 00 | 00 |
| 503 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 | 80 | 21 | 23 | 00 | 00 | 00 |
| 504 | 00 | 00 | 00 | 11 | 68 | 00 | 12 | 11 | 80 | 80 | 11 | 11 | 00 | 00 | 00 |
| 505 | 00 | 00 | 00 | 00 | 00 | 00 | 42 | 00 | 80 | 80 | 11 | 22 | 80 | 00 | 00 |
| 506 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 | 80 | 11 | 22 | 00 | 00 | 00 |
| 507 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 22 | 80 | 80 | 21 | 23 | 00 | 00 | 00 |
| 508 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 80 | 80 | 80 | 00 | 12 | 00 | 00 | 00 |
| 509 | 00 | 00 | 00 | 00 | 68 | 00 | 23 | 00 | 80 | 80 | 00 | 22 | 11 | 00 | 00 |
| 510 | 00 | 00 | 00 | 00 | 00 | 00 | 42 | 00 | 80 | 80 | 12 | 21 | 00 | 00 | 00 |


| No. | 11,51 | 21,61 | 22,62 | 23,63 | 24,64 | 25,65 | 26 | 27 | 28 | 48 | 47 | 46 | 45,85 | 44,84 | 43,83 |
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| 511 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 00 | 80 | 80 | 11 | 22 | 12 | 00 | 00 |
| 512 | 00 | 00 | 00 | 00 | 11 | 42 | 21 | 21 | 80 | 80 | 22 | 22 | 69 | 00 | 00 |
| 513 | 00 | 21 | 21 | 90 | 00 | 90 | 22 | 90 | 80 | 80 | 90 | 22 | 90 | 00 | 00 |
| 514 | 00 | 00 | 21 | 00 | 00 | 80 | 23 | 80 | 80 | 80 | 11 | 22 | 00 | 00 | 00 |
| 515 | 00 | 00 | 00 | 00 | 00 | 00 | 23 | 11 | 80 | 80 | 11 | 32 | 00 | 00 | 00 |
| 516 | 00 | 00 | 21 | 00 | 00 | 12 | 23 | 21 | 80 | 80 | 22 | 33 | 12 | 11 | 00 |
| 517 | 00 | 00 | 22 | 00 | 00 | 00 | 21 | 31 | 80 | 80 | 21 | 21 | 00 | 00 | 00 |
| 518 | 00 | 00 | 21 | 00 | 00 | 00 | 23 | 21 | 80 | 80 | 21 | 23 | 00 | 00 | 00 |
| 519 | 11 | 11 | 31 | 00 | 00 | 00 | 31 | 00 | 80 | 80 | 21 | 32 | 32 | 00 | 00 |
| 520 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 22 | 80 | 80 | 22 | 23 | 00 | 00 | 00 |
| 521 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 12 | 80 | 80 | 11 | 32 | 00 | 00 | 00 |
| 522 | 00 | 11 | 11 | 00 | 11 | 00 | 22 | 12 | 80 | 80 | 12 | 31 | 00 | 00 | 00 |
| 523 | 00 | 00 | 21 | 00 | 00 | 00 | 00 | 12 | 80 | 80 | 00 | 21 | 00 | 00 | 00 |
| 524 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 90 | 80 | 80 | 90 | 22 | 00 | 21 | 00 |
| 525 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 90 | 80 | 80 | 90 | 22 | 00 | 00 | 00 |
| 526 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 00 | 00 | 00 | 00 | 00 |
| 527 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 11 | 80 | 80 | 31 | 22 | 00 | 00 | 00 |
| 528 | 00 | 00 | 68 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 00 | 00 | 00 | 00 | 00 |
| 529 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 00 | 80 | 80 | 12 | 22 | 00 | 00 | 00 |
| 530 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 00 | 80 | 80 | 21 | 22 | 21 | 00 | 00 |
| 531 | 00 | 00 | 00 | 00 | 12 | 00 | 12 | 11 | 80 | 80 | 12 | 12 | 12 | 00 | 00 |
| 532 | 21 | 00 | 21 | 00 | 00 | 00 | 22 | 21 | 80 | 80 | 21 | 22 | 00 | 00 | 00 |
| 533 | 00 | 00 | 00 | 00 | 00 | 00 | 42 | 11 | 80 | 80 | 32 | 32 | 00 | 00 | 00 |
| 534 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 21 | 80 | 80 | 21 | 21 | 00 | 00 | 00 |
| 535 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 12 | 22 | 00 | 00 | 00 |
| 536 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 11 | 21 | 00 | 00 | 00 |
| 537 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 00 | 80 | 80 | 00 | 42 | 00 | 00 | 00 |
| 538 | 11 | 11 | 00 | 00 | 12 | 32 | 50 | 22 | 80 | 80 | 22 | 44 | 00 | 00 | 00 |
| 539 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 | 80 | 00 | 22 | 00 | 00 | 00 |

MANITOBA CHILDREN'S DENTAL PROGRAM - 13 YEARS

| No. | 11,51 | 21,61 | 22,62 | 23,63 | 24,64 | 25,65 | 26 | 27 | 28 | 48 | 47 | 46 | 45,85 | 44,84 | 43,83 |
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| 540 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 11 | 80 | 80 | 11 | 12 | 00 | 00 | 00 |
| 541 | 00 | 00 | 21 | 00 | 00 | 80 | 00 | 80 | 80 | 80 | 00 | 22 | 00 | 00 | 00 |
| 542 | 41 | 41 | 41 | 00 | 00 | 00 | 22 | 11 | 80 | 80 | 00 | 21 | 11 | 11 | 00 |
| 543 | 21 | 21 | 21 | 11 | 00 | 00 | 23 | 00 | 80 | 80 | 00 | 00 | 00 | 00 | 00 |
| 544 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 11 | 80 | 80 | 11 | 22 | 11 | 00 | 00 |
| 545 | 00 | 00 | 00 | 69 | 00 | 00 | 22 | 21 | 80 | 80 | 21 | 22 | 00 | 00 | 00 |
| 546 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 00 | 80 | 80 | 11 | 22 | 00 | 00 | 00 |
| 547 | 00 | 00 | 00 | 00 | 22 | 90 | 22 | 90 | 80 | 80 | 90 | 22 | 90 | 00 | 00 |
| 548 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 00 | 21 | 00 | 00 | 00 |
| 549 | 00 | 00 | 11 | 00 | 21 | 00 | 00 | 00 | 80 | 80 | 41 | 21 | 00 | 00 | 00 |
| 550 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 22 | 80 | 80 | 22 | 22 | 00 | 00 | 00 |
| 551 | 00 | 00 | 00 | 00 | 08 | 00 | 22 | 00 | 80 | 80 | 00 | 23 | 21 | 68 | 00 |
| 552 | 00 | 00 | 00 | 00 | 11 | 00 | 32 | 90 | 80 | 80 | 80 | 41 | 80 | 00 | 00 |
| 553 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 00 | 80 | 80 | 00 | 22 | 00 | 00 | 00 |
| 554 | 00 | 00 | 00 | 00 | 21 | 00 | 00 | 00 | 80 | 80 | 11 | 22 | 00 | 00 | 00 |
| 555 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 21 | 80 | 80 | 22 | 22 | 00 | 00 | 00 |
| 556 | 00 | 00 | 21 | 00 | 00 | 00 | 23 | 00 | 80 | 80 | 21 | 44 | 00 | 00 | 00 |
| 557 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 00 | 00 | 00 | 00 | 00 |
| 558 | 00 | 00 | 21 | 00 | 00 | 00 | 21 | 80 | 80 | 80 | 22 | 22 | 80 | 00 | 00 |
| 559 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 | 80 | 11 | 22 | 12 | 00 | 00 |
| 560 | 21 | 00 | 00 | 00 | 00 | 00 | 24 | 00 | 80 | 80 | 22 | 22 | 00 | 00 | 00 |
| 561 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 | 80 | 22 | 22 | 00 | 00 | 00 |
| 562 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 21 | 80 | 80 | 22 | 22 | 00 | 00 | 00 |
| 563 | 00 | 00 | 00 | 00 | 00 | 00 | 23 | 21 | 80 | 80 | 22 | 22 | 00 | 68 | 00 |
| 564 | 00 | 00 | 00 | 00 | 21 | 21 | 22 | 00 | 80 | 80 | 22 | 22 | 00 | 00 | 00 |
| 565 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 | 22 | 21 | 00 | 00 | 00 |
| 566 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 21 | 80 | 80 | 00 | 22 | 00 | 00 | 69 |
| 567 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 | 80 | 22 | 22 | 00 | 00 | 00 |
| 568 | 00 | 00 | 21 | 00 | 00 | 00 | 22 | 00 | 80 | 80 | 21 | 22 | 89 | 00 | 00 |


| No. | 42,82 | 41,81 | 31,71 | 32,72 | 33,73 | 34,74 | 35,75 | 36 | 37 | 38 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 401 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 21 | 80 |
| 402 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 11 | 80 |
| 403 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 11 | 80 |
| 404 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 22 | 11 | 80 |
| 405 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 32 | 80 |
| 406 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 22 | 80 |
| 407 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 |
| 408 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 |
| 409 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 21 | 80 |
| 410 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 11 | 80 |
| 411 | 00 | 00 | 00 | 00 | 00 | 00 | 43 | 23 | 22 | 80 |
| 412 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 22 | 80 |
| 413 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 |
| 414 | 00 | 00 | 00 | 00 | 90 | 00 | 00 | 00 | 00 | 80 |
| 415 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 |
| 416 | 00 | 00 | 00 | 00 | 00 | 00 | $C 9$ | 22 | 80 | 80 |
| 417 | 00 | 00 | 00 | 00 | 00 | 12 | 22 | 22 | 22 | 80 |
| 418 | 00 | 41 | 00 | 00 | 12 | 00 | 22 | 21 | 22 | 80 |
| 419 | 11 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 80 | 80 |
| 420 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 33 | 31 | 80 |
| 421 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 21 | 41 | 80 |
| 422 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 12 | 80 |
| 423 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 |
| 424 | 00 | 00 | 00 | 00 | 00 | 11 | 21 | 22 | 22 | 80 |
| 425 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 00 | 80 |
| 426 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 12 | 80 |
| 427 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 |
| 428 | 00 | 00 | 00 | 00 | 00 | 22 | 32 | 31 | 22 | 80 |
| 429 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 31 | 80 |


| No. | 42,82 | 41,81 | 31,71 | 32,72 | 33,73 | 34,74 | 35,75 | 36 | 37 | 38 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 430 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 24 | 21 | 80 |
| 431 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 50 | 21 | 80 |
| 432 | 00 | 00 | 00 | 00 | 21 | 00 | 00 | 22 | 21 | 80 |
| 433 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 11 | 80 |
| 434 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 22 | 80 |
| 435 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 |
| 436 | 00 | 00 | 00 | 00 | 00 | 00 | 68 | 00 | 00 | 80 |
| 437 | 00 | 00 | 00 | 00 | 00 | 08 | 00 | 22 | 21 | 80 |
| 438 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 00 | 80 |
| 439 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 21 | 80 |
| 440 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 |
| 441 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 |
| 442 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 12 | 80 |
| 443 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 80 |
| 444 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 22 | 80 |
| 445 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 12 | 80 |
| 446 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 00 | 80 |
| 447 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 22 | 90 | 80 |
|  |  |  |  |  |  |  |  |  |  |  |
| 501 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 23 | 00 | 80 |
| 502 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 00 | 80 |
| 503 | 00 | 69 | 69 | 00 | 00 | 00 | 00 | 23 | 21 | 80 |
| 504 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 11 | 80 |
| 505 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 21 | 22 | 80 |
| 506 | 00 | 00 | 00 | 00 | 21 | 00 | 00 | 22 | 00 | 80 |
| 507 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 22 | 80 |
| 508 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 00 | 80 |
| 509 | 00 | 00 | 00 | 00 | 22 | 00 | 11 | 22 | 21 | 80 |
| 510 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 21 | 12 | 80 |


| No. | 42,82 | 41,81 | 31,71 | 32,72 | 33,73 | 34,74 | 35,75 | 36 | 37 | 38 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 511 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 21 | 80 |
| 512 | 00 | 11 | 21 | 00 | 00 | 11 | 00 | 22 | 22 | 80 |
| 513 | 00 | 13 | 00 | 00 | 00 | 00 | 90 | 22 | 90 | 80 |
| 514 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 |
| 515 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 32 | 12 | 80 |
| 516 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 23 | 21 | 80 |
| 517 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 31 | 80 |
| 518 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 22 | 80 |
| 519 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 11 | 80 |
| 520 | 00 | 00 | 00 | 00 | 00 | 21 | 21 | 22 | 21 | 80 |
| 521 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 11 | 80 |
| 522 | 00 | 00 | 00 | 00 | 00 | 00 | 12 | 32 | 31 | 80 |
| 523 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 11 | 80 |
| 524 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 90 | 80 |
| 525 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 90 | 80 |
| 526 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 80 |
| 527 | 00 | 00 | 00 | 00 | 00 | 00 | 11 | 22 | 31 | 80 |
| 528 | 00 | 00 | 00 | 00 | 00 | 68 | 00 | 00 | 00 | 80 |
| 529 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 12 | 80 |
| 530 | 21 | 21 | 21 | 21 | 00 | 00 | 00 | 22 | 21 | 80 |
| 531 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 12 | 11 | 80 |
| 532 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 21 | 80 |
| 533 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 23 | 11 | 80 |
| 534 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 00 | 80 |
| 535 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 21 | 80 |
| 536 | 00 | 00 | 00 | 00 | 00 | 21 | 00 | 21 | 11 | 80 |
| 537 | 00 | 00 | 00 | 00 | 00 | 12 | 11 | 41 | 00 | 80 |
| 538 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 41 | 22 | 80 |
| 539 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 |


| No. | 42,82 | 41,81 | 31,71 | 32,72 | 33,73 | 34,74 | 35,75 | 36 | 37 | 38 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 540 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 11 | 80 |
| 541 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 22 | 00 | 80 |
| 542 | 41 | 11 | 41 | 00 | 00 | 00 | 00 | 50 | 12 | 80 |
| 543 | 00 | 00 | 00 | 00 | 00 | 00 | 12 | 23 | 00 | 80 |
| 544 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 12 | 80 |
| 545 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 21 | 80 |
| 546 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 11 | 80 |
| 547 | 00 | 00 | 00 | 00 | 00 | 00 | 90 | 22 | 90 | 80 |
| 548 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 00 | 80 |
| 549 | 00 | 00 | 00 | 00 | 00 | 00 | 69 | 21 | 11 | 80 |
| 550 | 00 | 00 | 00 | 00 | 00 | 21 | 21 | 22 | 22 | 80 |
| 551 | 00 | 00 | 00 | 00 | 00 | 68 | 00 | 22 | 21 | 80 |
| 552 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 22 | 80 | 80 |
| 553 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 22 | 80 |
| 554 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 11 | 80 |
| 555 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 22 | 80 |
| 556 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 32 | 22 | 80 |
| 557 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 80 |
| 558 | 00 | 00 | 00 | 00 | 00 | 00 | 80 | 21 | 22 | 80 |
| 559 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 00 | 80 |
| 560 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 22 | 80 |
| 561 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 22 | 80 |
| 562 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 22 | 22 | 80 |
| 563 | 00 | 00 | 00 | 00 | 00 | 68 | 00 | 21 | 22 | 80 |
| 564 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 22 | 22 | 80 |
| 565 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 21 | 80 |
| 566 | 00 | 00 | 00 | 00 | 69 | 00 | 00 | 22 | 00 | 80 |
| 567 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 22 | 22 | 80 |
| 568 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 21 | 21 | 80 |

