

Understanding the Early Years: Division scolaire franco-manitobaine

A Community Research Report

Prepared for:
Human Resources and Skills Development Canada

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**Understanding the Early Years: Division Scolaire Franco-Manitobaine
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EXECUTIVE SUMMARY

Understanding the Early Years (UEY) is a national initiative aimed at strengthening the capacity of communities to use quality local research to help them make decisions to enhance children's lives. This report,¹ *Understanding the Early Years in the Division scolaire franco-manitobaine: A Community Research Report*, is based on information collected with the *Parent Interviews and Direct Assessments of Children Survey (PIDACS)*, as well as information collected from teachers using the *Early Development Instrument (EDI)*. The report is to be used by local project staff and its community coalition, in conjunction with the *Community Mapping Report* developed by the Division scolaire franco-manitobaine UEY project, which includes maps displaying local information, to set out a *Community Action Plan*. The *Community Action Plan* is a key product of the local UEY project as it outlines concrete measures that community members can take to address gaps in programs and services identified by the research to provide the best possible approaches to meet the needs of their young children.

PIDACS was designed to collect information about children's developmental outcomes and their family and neighbourhood environments and experiences. The target population for the PIDACS was all children who entered kindergarten (the year before grade one) in autumn 2006. In the Division scolaire franco-manitobaine, the sample included 376 families, and of these, 314 parents or guardians completed the PIDACS interview. The parent interview covers family, social and economic circumstances; children's activities with parents; and involvement in the community, including child-care arrangements. The interview also includes questions about the children's health and behaviour, including positive social behaviour, inattention, anxiety, depression, and physical aggression. PIDACS also includes direct assessments of children's developmental skills, including receptive vocabulary, number knowledge, and pre-literacy. In the Division scolaire franco-manitobaine, 321 children completed the direct assessments. In addition, this report presents teachers' assessments of the development of kindergarten children in the Division scolaire franco-manitobaine, using the EDI.

¹ This report is one of a set of reports on Understanding the Early Years in each of 21 UEY communities. Please see Appendix A for a list of the communities.

The Manitoba Francophone community is referred to in this study as the Division scolaire franco-manitobaine. It includes the citizens in southern Manitoba, including Winnipeg, who are served by the Division scolaire franco-manitobaine (DSFM) (Manitoba Francophone School Division) which includes six urban elementary schools and 14 rural elementary schools. All of the children in the UEY Division scolaire franco-manitobaine are growing up in a bilingual environment, in some cases because the parents speak both languages at home, and in all cases because both English and French are used in the local community. While they are fortunate in this respect, many children are weak in their French language skills when they enter school. The three direct assessments for the Division scolaire franco-manitobaine were administered in French, and therefore the scores reflect children's ability to complete the assessments in French. The children in the sample had below-average scores on receptive vocabulary, but scored close to the Canadian average on an assessment of numerical skills. Also, results on a general assessment of developmental skills were similar to the Canadian average.

Generally, there were relatively few children in the Division scolaire franco-manitobaine displaying behaviour or health problems. The prevalence of children with asthma or a chronic condition was particularly low.

Teachers' assessments were consistent with the PIDACS results. Their assessments of children's physical health and well-being were above the national average, while their assessments of language and cognitive development were below the national average.

The families in the Division scolaire franco-manitobaine on average have relatively high family incomes compared with the Canadian average. Most parents were employed, and there were very few parents who had not completed secondary school. Considering these factors together, the average level of socioeconomic status of this community is relatively high.

Parents gave very high ratings for the quality of their local neighbourhoods, indicating that they are safe places to raise children and that neighbours and friends are supportive. The prevalence of mothers experiencing signs of depression was comparable to the Canadian average, and parents' scores on measures of positive parenting practices were close to the Canadian average. Children in the Division scolaire franco-manitobaine tended to be actively engaged in both organized and unorganized sports, and on average they spent considerably less time watching television or videos than other children this age. Most parents read to their children on a regular basis. Children in the Division scolaire franco-manitobaine regularly used community resources, especially educational or science centres, and recreational resources such as parks and recreation trails and beaches or pools. Less than one-half of the families in this community used some form of child care arrangement while working or studying. The most frequently used types of care were before or after-school programs and care in someone else's home by a relative.

The prominent barriers to participation were similar to those of other communities, including not finding a convenient time to participate, not having the time to participate, and the unavailability of programs for children this age. The use of community resources was relatively strong in DSFM; however, the unavailability of programs nearby and the unavailability of programs in their preferred language were also important barriers to participation.

As the community works towards developing its action plan, it can consider its strengths and weaknesses uncovered by the local research. The findings of this report may vary among regions within this UEY community. The UEY initiative stresses the importance of a coordinated approach that involves families, teachers, and the wider community to determine the best programs and services to meet children's needs during their formative years.



INTRODUCTION

I. INTRODUCTION

A. WHAT THIS STUDY IS ABOUT

Background: Understanding the Early Years (UEY) Initiative

There is increasing evidence to support the importance of investing in the early years of children's development. Recent research shows that the formative years are critical, and that the kind of nurturing and stimulation that children receive in their early years can have a major impact on the rest of their lives. The evidence also suggests that neighbourhoods and communities where children grow and learn influence their development; they affect parents' ability to provide a positive family environment and the ability of others in the community to support the development of children as they grow up.

Policies and programs to enhance children's early development differ in important ways among neighbourhoods, communities, and regions across Canada. They are shaped by a broad policy community that includes families, the private and voluntary sectors, and governments at local, provincial, territorial and federal levels. Gathering community-specific information about children and the places where they are raised can help the community design policies and deliver programs that are sensitive and responsive to local needs. *Understanding the Early Years (UEY)*, a national initiative funded and managed by Human Resources and Social Development Canada, is contributing to this process.

UEY's overall purpose is to enable members of communities to work together to address the needs of young children by:

- Raising family and community awareness of the importance of family and community factors that can influence young children's development.
- Strengthening their ability to use local data to help them make decisions to enhance children's lives.

The initiative provides three years of funding to community-based, not-for-profit organizations on behalf of their communities to help them learn to generate and use local information on:

- the development of kindergarten (the year before grade one) children;
- family and community factors that influence children's development;
- local programs and services for young children and their families; and
- local socioeconomic characteristics.

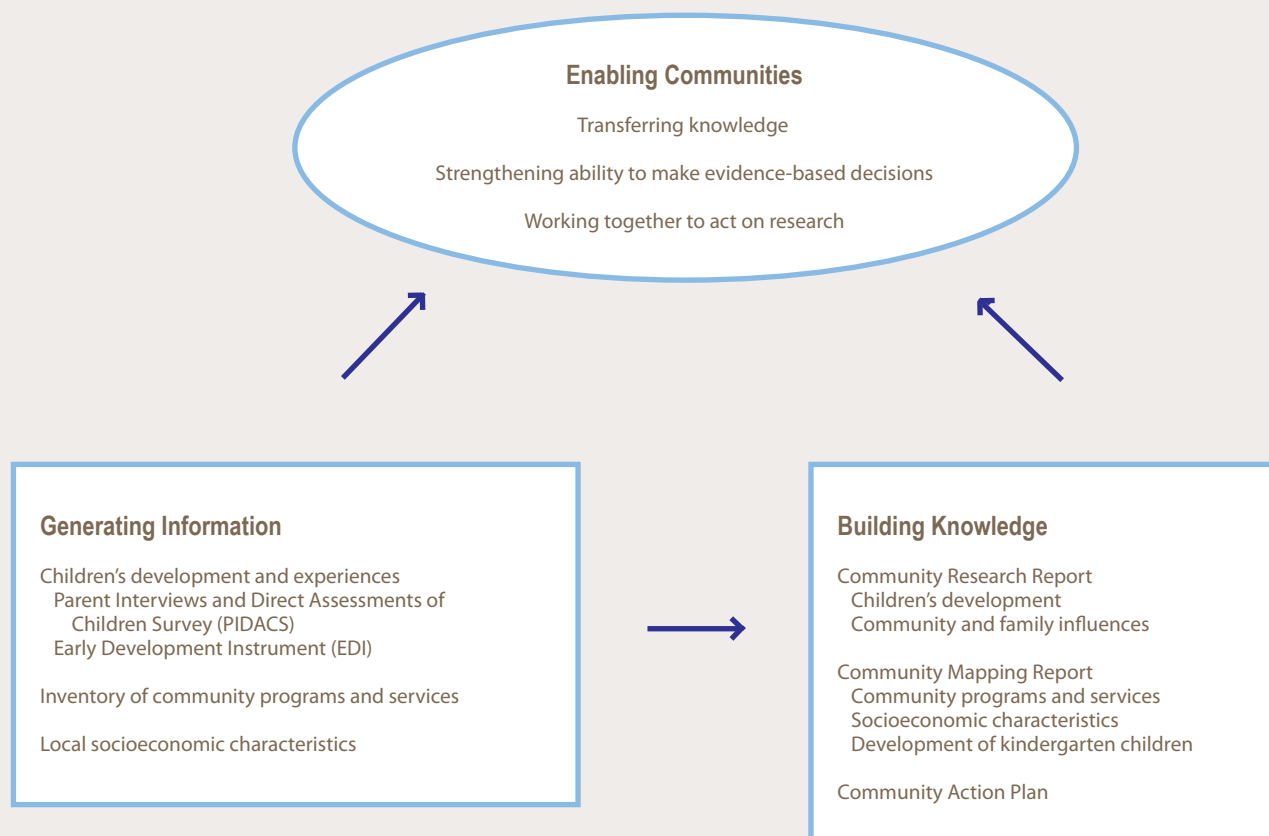
This information enables local UYEY project staff, the UYEY community coalition of organizations and individuals, and other community members to identify gaps in services and programs for young children and their families. Moreover, it fosters partnerships among community groups and individuals, enabling them to make informed decisions about the best approaches for young children to thrive. Each community project involves the participation of parents, teachers, schools, school boards, community organizations, and others interested in the well-being of children.

UEY also aims to promote the participation of communities with children from diverse cultural, language and economic backgrounds.

UEY was launched in 1999 as a research initiative to enhance knowledge about community factors that influence the early development of children. It began with a pilot initiative in North York, Ontario and included 12 communities by 2002. In 2004, UYEY became a national initiative. This report, *Understanding the Early Years in the Division scolaire franco-manitobaine: A Community Research Report*, presents results for the Division scolaire franco-manitobaine (DSFM), one of the 21 communities that began UYEY activities in autumn 2005. Please see Appendix A for a list of the 21 communities.

Figure 1.1 illustrates key components of the UYEY initiative and how it works in participating communities.

FIGURE 1-1. Key components of the UEY design



B. HOW THE STUDY WAS CONDUCTED

This *Community Research Report* for the Division scolaire franco-manitobaine is a key piece of the local research made available to the community through the UEY initiative. It highlights key findings from the information collected from parents, children and teachers, presented in the context of the social and economic characteristics of the community. The total set of UEY information includes parents' and teachers' perspectives on the development of kindergarten children, direct assessment results on children's cognitive abilities, parents' perspectives on family circumstances and children's experiences, local information on programs and services, and local socioeconomic characteristics. Table 1-1 indicates the types of data and their sources.

TABLE 1-1. Types of UEY Information and Data Sources

TYPE OF INFORMATION	DATA SOURCE	COLLECTED BY
Development of kindergarten children		
Parents' perspectives	Interview with parents using the <i>Parent Interviews and Direct Assessments of Children Survey</i>	R.A. Malatest & Associates Ltd., under contract to Human Resources and Social Development Canada
Children's abilities	Three direct assessments of children's cognitive abilities using the <i>Parent Interviews and Direct Assessments of Children Survey</i>	R.A. Malatest & Associates Ltd., under contract to Human Resources and Social Development Canada
Teachers' perspectives	Teacher-completed checklist, the <i>Early Development Instrument</i>	Offord Centre for Child Studies at McMaster University, in partnership with the Province of Manitoba
Family circumstances and children's experiences at home and in the community	Interview with parents using the <i>Parent Interviews and Direct Assessments of Children Survey</i>	R.A. Malatest & Associates Ltd., under contract to Human Resources and Social Development Canada
Information about community programs and services	<i>Inventory of Community Programs and Services</i>	Local UEY project
Local socioeconomic characteristics	2001 Census (and other available data)	Statistics Canada

The parent and child data in this report are from the *Parent Interviews and Direct Assessments of Children Survey (PIDACS)* collected during the 2006-07 school year. The teachers' assessments of the development of children in their classes were collected using the *Early Development Instrument (EDI)* in the 2005-06 school year. The social and community contexts of the community are provided by the local UEY staff and are developed from 2001 Census data.

Parent Interviews and Direct Assessments of Children Survey (PIDACS)

The *Parent Interviews and Direct Assessments of Children Survey* uses instruments designed and adapted for five-year-olds in the National Longitudinal Survey of Children and Youth (NLSCY).² It has two complementary components: the PIDACS parent interview and the direct assessments of children's cognitive development. Together, they provide information on children's developmental outcomes in three domains, and many of the important family, neighbourhood, and community factors that are known to influence these outcomes.

The PIDACS parent interview is conducted with the 'person most knowledgeable' (PMK) about the child, which is usually the mother or female guardian. In less than 10 per cent of families, the parent is the father or male guardian. The interview is done by telephone or on the internet if possible, or in person when a telephone is not available. Parents are interviewed in the language of their choice as much as possible. The interview covers family, social, and economic circumstances; children's activities at home; and involvement in the community, including child-care arrangements. The interview also includes questions about the child's behaviour and development, including positive social behaviour, anxiety, depression, physical aggression, and physical health and well-being.

The PIDACS direct assessments are conducted with the child by a trained assessor at the child's school. The assessments include measures of children's receptive vocabulary, copying and printing skills related to early literacy, and number knowledge. The instruments used to assess these skills are described in greater detail later in this report. The data from the PIDACS direct assessments can be used with the data from the PIDACS parent interview to describe children's outcomes in three domains: learning, which includes general knowledge, language development and cognitive development; social skills and behaviour; and physical health and well-being.

² The National Longitudinal Survey of Children and Youth (NLSCY) is a comprehensive, longitudinal survey designed to measure and track the well-being and life experiences of Canada's children and youth as they grow up. It has been collecting data every two years since 1994. The survey is conducted by Statistics Canada and sponsored by Human Resources and Social Development Canada (HRSDC).

The PIDACS target population in each UEY community was all children who entered kindergarten in autumn 2006. In most UEY communities the sample comprised the full population, but in some of the larger communities a representative sample was drawn. The data collection occurred from late autumn 2006 to spring 2007. Thus, the vast majority of the children were five or six years old at the time of the data collection. The average age across the 21 UEY communities was 5 years, 11 months, and in the Division scolaire franco-manitobaine it was 5 years, 7 months. The sample for the Division scolaire franco-manitobaine included 376 children enrolled in kindergarten in 2006-07. Of these, 314 parents or guardians were interviewed, and 321 children completed the PIDACS direct assessments.

The PIDACS sample size for the Division scolaire franco-manitobaine is sufficiently large to provide accurate estimates of the mean scores for the measures of children's outcomes and for various aspects of family and community context. For example, the average score in the Division scolaire franco-manitobaine on the measure of receptive vocabulary is 79.5. The standard error of this estimate, which provides an indication of how accurately the estimate was measured, is 1.1. If we could repeat the study a number of times, the estimates of the mean would lie within a range of plus or minus two standard errors, or between 77.3 and 81.7, about 19 times out of 20. In all comparisons, we test for the statistical significance at this level of significance ($p < 0.05$).

The data collected with PIDACS and with the EDI were merged with information on the socioeconomic status (SES) of the families' neighbourhoods, using a measure derived from data from the 2001 Canadian Census. The census data were used to check whether the average SES of the families in the PIDACS sample did not differ significantly from the EDI sample, which included the full population of children enrolled in kindergarten the previous year. The average SES of the families in the PIDACS sample did not differ significantly from the EDI sample. Therefore, we are reasonably confident that the sample is representative of all families with kindergarten children in the Division scolaire franco-manitobaine.

The PIDACS indicators developed for this study were carefully examined to ensure that they were valid and reliable measures of the concepts being assessed. Validity refers to whether an instrument is measuring what it is intended to measure. For example, the PIDACS assessment of receptive vocabulary uses the Peabody Picture Vocabulary Test – Revised (PPVT-R). A number of studies have shown that receptive vocabulary is a moderately strong predictor of early reading skills.³ Reliability refers to the consistency of a measurement process. For example, if a child were assessed using a particular measure, and then reassessed the next day following the same procedures, would the two scores be the same or similar? Reliability is closely related to validity, because acquiring evidence about the consistency of measurement requires that the various tasks or items observed are valid indicators of the underlying concept. The PIDACS instruments were carefully selected from those used in previous studies, including the UEY pilot studies and the NLSCY, to ensure that they are valid measures with high reliability.

The interpretation of each community's PIDACS results is strengthened by comparing them to the Canadian or national average. Where feasible, Canadian averages derived from the NLSCY (Cycle 6) were used for the comparative purposes. In cases where no comparable national averages exist for the PIDACS measures, “pseudo” Canadian or national averages were generated by weighting the combined PIDACS data for the 21 UEY communities (a total sample of 8,834 children) to represent the Canadian population.

³ Scarborough, H. S. (1998). Early identification of children at risk for reading disabilities: Phonological awareness and some other promising predictors. In B. K. Shapiro, A. J. Capute, & B. Shapiro (Eds.), *Specific reading disability: A view of the spectrum* (pp. 77-121). Hillsdale, NJ: Erlbaum.

Schatschneider, C., Fletcher, J., Francis, D., Carlson, C., & Foorman, B. (2004). Kindergarten prediction of reading skills: A longitudinal comparative analysis. *Journal of Educational Psychology*, 96(2), 265-282.

In statistical analysis of survey data such as the NLSCY, weighting is often applied to make the sample more like the population under study. In most situations, each case in the sample is assigned a design weight, which is a numerical value, associated with the proportion of the population it represents. This is based on the population-to-sample ratio and information on demographic and socioeconomic characteristics. By multiplying each case by its weight, population totals or averages can be more accurately estimated. In this study, this weighting process was achieved by linking the PIDACS data to the 2001 Canadian Census using geographic information, derived from the postal code, existing on both sets of data. This step allowed information to be derived from the Census data for the PIDACS families on the socioeconomic characteristics of the neighbourhoods in which they live. Weights were then created in the PIDACS data to represent all the Canadian children, based on the similar socioeconomic characteristics of the neighbourhoods where they live. These weights were used to estimate a Canadian average for a PIDACS measure, which would be comparable to the average derived from a nationally representative sample. This average, used for comparative purposes in this report, is referred to as “the Canadian PIDACS average” or “the national PIDACS average”.

The use of PIDACS in this context has a number of strengths, but it also has some limitations. The survey provides reliable and valid information on children’s cognitive, behavioural and health outcomes and a wide range of family, neighbourhood, and community factors. The results can be easily interpreted, and used in conjunction with the *Community Mapping Report* to develop the *Community Action Plan*.

However, PIDACS cannot measure in detail all aspects of children’s outcomes, as the administration time for the three direct assessments was about 30 minutes, which is appropriate for children this age. The PIDACS parent interview is very extensive, but it too cannot cover all aspects of family and community life. Another limitation is that the sample size for each UEY community is not sufficiently large to accurately determine which family and community factors have the strongest relationship with the various developmental outcomes. An analysis of these relationships is provided in an integrated report that uses data from all 21 UEY communities. Finally, UEY is a descriptive study designed to provide a rich description of the family and community factors that have been found to affect childhood outcomes. Research aimed at understanding the causal relationships between these factors and childhood outcomes requires longitudinal studies that follow children over several years, such as the NLSCY, and studies that involve the random assignment of communities to treatment and control groups. Instead, PIDACS relies on previous research that has been conducted in this vein, such as the NLSCY and Ontario’s Better Beginnings Better Futures Program,⁴ to provide a comprehensive assessment that can be used for planning in local communities.

⁴ Peters, R. DeV., Arnold, R., Petrunka, K., Angus, D. E., Brophy, K., Burke, S. O., Cameron, G., Evers, S., Herry, Y., Levesque, D., Pancer, S. M., Roberts-Fiati, G., Towson, S., & Warren, W. K. (2000). *Developing Capacity and Competence in the Better Beginnings, Better Futures Communities: Short-Term Findings Report*. Kingston, Ontario: Better Beginnings, Better Futures Research Coordination Unit.

The PIDACS data collection was conducted by an independent contractor, R. A. Malatest & Associates Ltd., hired by Human Resources and Social Development Canada. The collection was done in collaboration with participating parents, school boards, schools, and local UEY staff. The analysis of the data and the preparation of the reports were sub-contracted by Malatest to KSI Research International Inc., which was responsible for analyzing the data and writing community-specific research reports for each of the 21 UEY communities. This report is one of these.

Early Development Instrument (EDI)

Another key piece of information for this community report is from kindergarten teachers, who provided their perceptions of children's development using the *Early Development Instrument*. Teachers completed the checklist in the winter of 2006 for the sample of children in kindergarten classes of schools participating in the UEY project. In the Division scolaire franco-manitobaine, 367 children from 20 schools completed the EDI. About 4% of the children were considered to have special needs. Less than one percent of the children were repeating kindergarten.

The EDI provides information at a group level for five domains of children's development: physical health and well-being; social competence; emotional maturity; language and cognitive development; and communication skills and general knowledge. The instrument was developed by the Offord Centre for Child Studies at McMaster University.

The EDI data were collected by the Offord Centre under contract with Human Resources and Social Development Canada in collaboration with participating schools, school boards, and local UEY staff. This report includes a summary of the EDI results as part of Chapter 2 on children's developmental outcomes. The EDI data used in this report included all children, including 'special needs' students. As with the PIDACS, results for the EDI presented in this report were compared to a weighted national average that was derived from data collected from the 21 UEY communities that participated in 2005-06. This average is referred to as the 'Canadian EDI average' or the 'national EDI average'.

It should be noted that the EDI data were collected for children in kindergarten in the winter of 2006, while the PIDACS data were collected for children in kindergarten in the 2006-07 school year.

C. THE DIVISION SCOLAIRE FRANCO-MANITOBAINE - MILIEU FOR YOUNG CHILDREN'S DEVELOPMENT

The Manitoba Francophone community, referred to in this study as the Division scolaire franco-manitobaine, comprises some 54,000 members who are mostly dispersed in the southern part of the province. Communities in minority situations differ from other communities in regards to the transmittal of the language, the culture, the accessibility and availability of French services and programs, and assimilation. In the Division scolaire franco-manitobaine, school is the hub of the community and its families. The school is the gathering place for conveying the Francophone language and culture. This is done by welcoming not only young persons of school age, but also, indirectly, their parents, siblings, and grandparents. In the Division scolaire franco-manitobaine, the schools are the heart of the communities.

The French-speaking communities in Manitoba are mainly situated in urban areas. In fact, two thirds of Francophone Manitobans reside in the city of Winnipeg while one third lives in villages or rural municipalities. Most of these communities are within a one-hour drive from Winnipeg. The city of Winnipeg has six school divisions comprised of English and immersion schools.

The recipient organization for the UEY Division scolaire franco-manitobaine (Manitoba Francophone School Division) was founded in 1994. The Division scolaire franco-manitobaine manages 23 schools of which 20 have an Early Years program (from kindergarten to grade 4). Of those 20 elementary schools, 6 of them are located in the City of Winnipeg and 14 are located in rural areas of the province.

The Coalition francophone de la petite enfance du Manitoba's (Manitoba Francophone Early Years Coalition) mandate is to bring together French early years services and programs. As of 2006, four communities have a Centre de la petite enfance et de la famille - CPEF (Early Childhood and the Family) in their schools: Précieux-Sang, Gabrielle-Roy, Réal-Bérard, and St-Jean-Baptiste. That being said, 16 schools do not yet have a CPEF. The community is working toward the goal of establishing CPEF in all of its schools.

Of particular challenge to the Division scolaire franco-manitobaine community are the lack of qualified staff to work with children during the early years; the increasing rate of exogamous (i.e., Francophone/non-Francophone) families; the number of kindergarten students needing support in learning French; and the lack of financial support to establish CPEF infrastructures in the community's schools.

PIDACS Data on the Social, Economic and Cultural Context

Information about the social, cultural and economic context of a community, where young children grow up, is helpful in understanding the role that families and neighbourhoods play in children's developmental outcomes. The social, cultural, and economic context of a community is often summarized with measures describing the levels of education of its families, the employment status of its residents, and the average levels of family income. These factors embody what is often called socioeconomic status (SES). Family structure, including the size of the family and whether it is a single- or two-parent family, is also relevant to children's outcomes. Both the NLSCY and PIDACS include measures of all these demographic factors; thus the results for the Division scolaire franco-manitobaine can be compared with those of Manitoba and Canada, which are derived from Cycle 6 of the NLSCY. Data from the 2001 Canadian Census are used to provide a map of the Division scolaire franco-manitobaine which portrays the SES of the UEY project area. All of these approaches are used in this chapter, in conjunction with the information provided by the community UEY project staff, to describe the social and economic characteristics of the Division scolaire franco-manitobaine.

Figures 1-2 to 1-5, which are provided in the remainder of this chapter, provide information on six characteristics of the family background of the children in the study. Figure 1-6 provides a map of the UEY project area, showing the SES of the area based on information derived from the 2001 Canadian Census.

Family Income

Earlier national research based on the NLSCY indicated that family income has an influence on children's developmental outcomes. The results suggested that there was a strong relationship with family income for children aged four and five who were living in families with incomes below \$30,000.⁵ Among those children with family incomes above \$30,000, however, the effects on children's outcomes associated with family income were not as strong. About 17%, or 1 in 6, Canadian children are living in families with annual family incomes below \$30,000. In 2005, the median total income of Canadian two-parent families with both parents working was \$79,100, while for single-parent, female-headed households it was \$30,400.⁶ Several studies have examined the effects of living in low-income families, and have compared the effects on children when they are in their pre-school years versus when they are older. The results suggest that the risk associated with living in a low-income family increases with duration, and that generally the effect during the early years is more detrimental to children than during their elementary or secondary school years.⁷

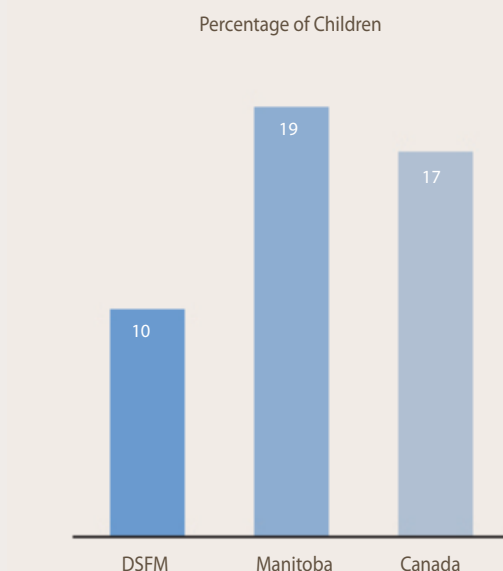
⁵ Willms, J. D. (2002). Socioeconomic gradients for childhood vulnerability. In J. D. Willms (Ed.), *Vulnerable Children: Findings from Canada's National Longitudinal Survey of Children and Youth* (pp. 71-102). Edmonton, AB: The University of Alberta Press.

⁶ Statistics Canada (2007). Income in Canada. Catalogue Number 75-202-XIE. Ottawa: Minister of Industry. Also, see <http://www.statcan.ca/Daily/English/060330/d060330a.htm>.

⁷ Duncan, G. J., Brooks-Gunn, J., & Klebanov, P. K. (1994). Economic deprivation and early child development. *Child Development*, 65, 296-318.

McLeod, J. D. & Nonnemaker, J. M. (2000). Poverty and child emotional and behavioral problems: Racial/ethnic differences in processes and effects. *Journal of Health and Social Behavior*, 41(2), 137-161.

FIGURE 1-2. Children in Families with Family Income below \$30,000



Source: PIDACS, 2006-07 and NLSCY, Cycle 6, 2004-05.

The median family income of the families in the Division scolaire franco-manitobaine PIDACS sample was \$70,000. About 10% of the children were living in families with annual incomes below \$30,000. Data from the NLSCY indicate that in 2004-05 the percentage of children aged zero to five living in families with incomes below \$30,000 in Manitoba was 19%, and in Canada it was 17%.

These results suggest that the majority of children in the Division scolaire franco-manitobaine are living in families with a relatively high income, but that there are some children living in low-income families. Family income is not the sole determinant of children's developmental outcomes, but children living in poor economic circumstances usually face significant challenges that are not experienced by other children.

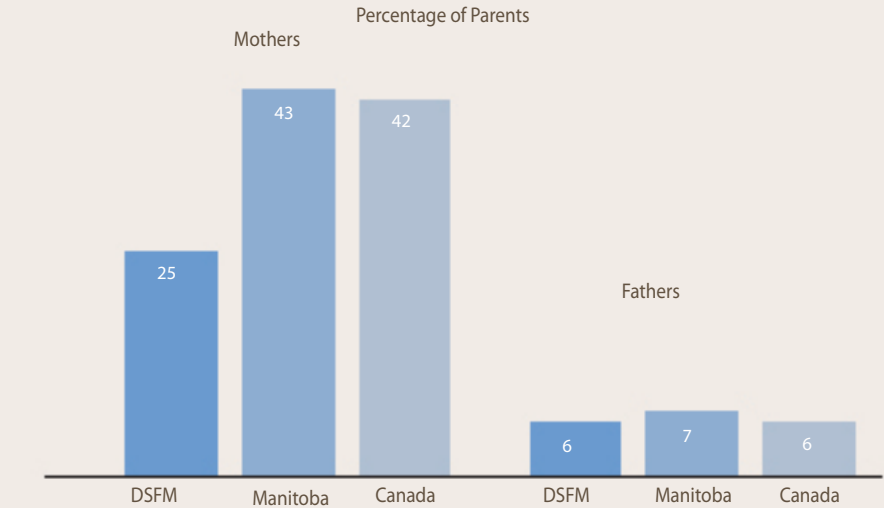
Parents' Employment

National findings from the NLSCY showed that children's developmental outcomes at ages four and five were only weakly related to parents' employment status. For mothers there appears to be a trade-off: mothers who are not employed have more time to be engaged with their child,⁸ but they are also more likely to experience depression.⁹ The children of mothers who are employed part-time tend to have slightly better developmental outcomes than those who are working full-time or are not employed. Later in this report, results describing levels of parental engagement and maternal depression are presented.

In the Division scolaire franco-manitobaine, the respondents reported that 25% of the mothers were not employed. This is lower than the rate for mothers of young children (aged zero to five) for Manitoba, 43%, and for Canada, 42%, based on findings from the NLSCY. Respondents also reported that 6% of the fathers in the Division scolaire franco-manitobaine were not employed, which is comparable to the rate for fathers of young children in Manitoba, 7%, and Canada, 6%.

These results suggest that there are many families where both parents are employed. Although this is a positive result in many respects, it means that parents have less time to be engaged with their children. Levels of engagement are examined later in this report.

FIGURE 1-3. Mothers and Fathers Who are Not Employed



Source: PIDACS, 2006-07 and NLSCY, Cycle 6, 2004-05.

⁸ Cook, C. & Willms, J. D. (2002). Balancing work and family life. In J. D. Willms (Ed.), *Vulnerable Children: Findings from Canada's National Longitudinal Survey of Children and Youth* (pp. 183-198). Edmonton, AB: The University of Alberta Press.

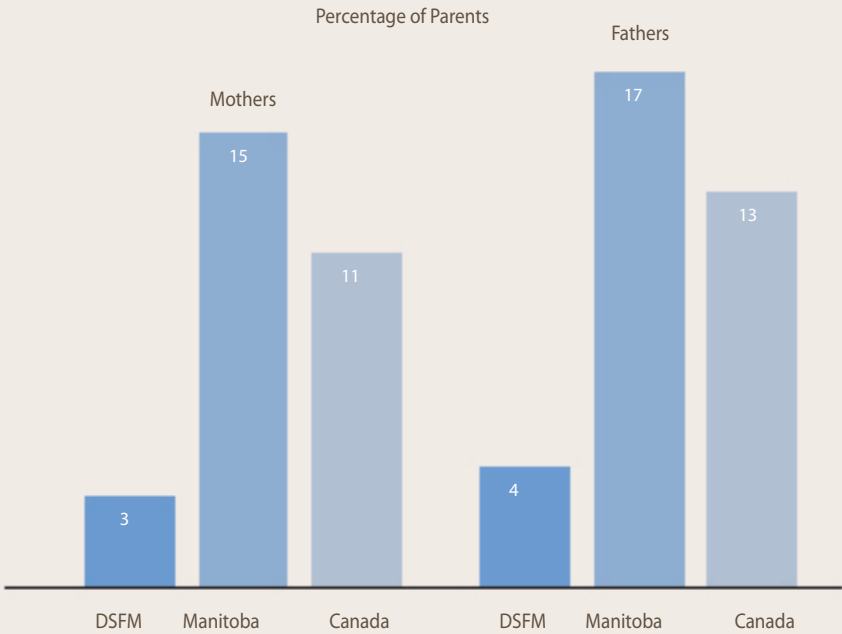
⁹ Dahinten, V. S. & Willms, J. D. (2002). Maternal depression and childhood vulnerability. In J. D. Willms (Ed.), *Vulnerable Children: Findings from Canada's National Longitudinal Survey of Children and Youth* (pp. 211-228). Edmonton, AB: The University of Alberta Press.

Parents' Level of Education

Several studies have found a significant relationship between levels of parents' education and a wide range of developmental outcomes.¹⁰ During the early years, the level of the mother's education plays a more prominent role than that of the father,¹¹ but the effects of a father's education increase after children enter school. Theorists argue that parents' education is important as it is related to expectations and parenting behaviours.

In the Division scolaire franco-manitobaine only 3% of the mothers had not completed secondary school, which is considerably lower than the prevalence for Manitoba, 15%, and for Canada, 11%. Also, only 4% of the fathers in the Division scolaire franco-manitobaine had not completed secondary school, which is considerably lower than the prevalence for Manitoba at 17% and Canada at 13%.

FIGURE 1-4. Mothers and Fathers Who Had Not Completed Secondary School



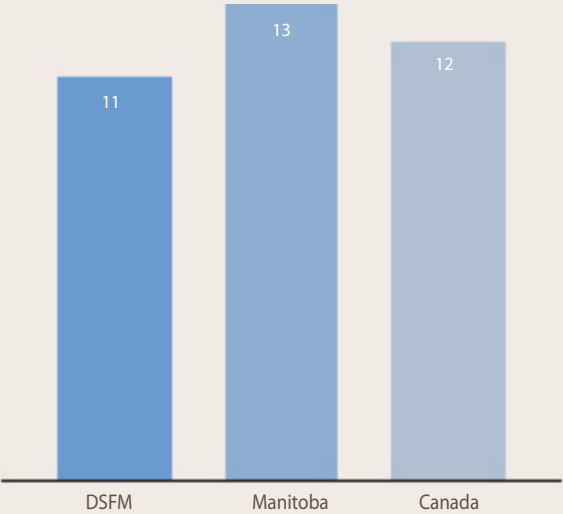
Source: PIDACS, 2006-07 and NLSCY, Cycle 6, 2004-05.

¹⁰ Bradley, R. H. & Corwyn, R. F. (2002). Socioeconomic status and child development. *Annual Review of Psychology*, 53, 371-399.

¹¹ Willms, J. D. (2002). Socioeconomic gradients for childhood vulnerability. In J. D. Willms (Ed.), *Vulnerable Children: Findings from Canada's National Longitudinal Survey of Children and Youth* (pp. 71-102). Edmonton, AB: The University of Alberta Press.

Family Structure

FIGURE 1-5. Children in Single-Parent Families
Percentage of Children



Source: PIDACS, 2006-07 and NLSCY, Cycle 6, 2004-05.

About one in eight Canadian families with young children is headed by a single parent, usually the mother. Single mothers tend to be at increased risk of various physical and mental health problems and are more likely to have low levels of education. Many single-parent families also experience prolonged periods of low income. Several large-scale studies have found negative effects on children's outcomes associated with growing up in a single-parent family, but these effects are largely attributable to low levels of income and education.¹² One of the problems often experienced by single parents is a lack of resources and transportation for their children to attend sports and recreational programs.

Eleven percent of the children in the Division scolaire franco-manitobaine sample were living in single-parent families. Data from the NLSCY for children aged zero to five indicate that 13% of the children in Manitoba are in single-parent families, and 12% of Canadian children are in single-parent families. These results have important implications for the kinds of programs that may be most helpful for children in the Division scolaire franco-manitobaine.

About 13% of the children in the Division scolaire franco-manitobaine sample did not have any brothers or sisters, while 43% had one sibling, and 44% had at least two siblings. The average number of siblings in the Division scolaire franco-manitobaine sample was 1.5, which is slightly higher than the Canadian average of 1.3.

¹² Lipman, L. L., Offord, D. R., Dooley, M. D., & Boyle, M. H. (2002). Children's outcomes in differing types of single-parent families. In J. D. Willms (Ed.), *Vulnerable Children: Findings from Canada's National Longitudinal Survey of Children and Youth* (pp. 229-242). Edmonton, AB: The University of Alberta Press.

Socioeconomic Status

An understanding of the social and economic context of the community and how family socioeconomic status (SES)¹³ is distributed geographically is helpful in understanding the factors contributing to children's development. Research based on the UEY pilot studies and the NLSCY has shown that children's developmental outcomes are related to SES; however, this relationship is not straightforward. Some children from low SES families have very positive cognitive, behavioural and health outcomes, while some children from high SES families have relatively poor developmental outcomes.¹⁴ An important goal of UEY is to distinguish between the effects on children's outcomes of family background and those associated with family processes and community factors. PIDACS includes measures of all three sets of these contributing factors. This rich information is supplemented with more general information obtained from the 2001 Canadian Census.

The census data are used in Figure 1-6 to portray the SES of the UEY project area.¹⁵ This report uses a measure of neighbourhood SES developed by KSI Research International Inc. It is derived from the 2001 Canadian Census, which includes information on the average income, level of education, employment status and the types of occupation of residents of each dissemination area (DA). The DA is a geographic unit which on average includes about 565 residents. It can be considered the 'neighbourhood' of the study children, although DA boundaries are not necessarily the same boundaries that local residents might use to define their neighbourhood.

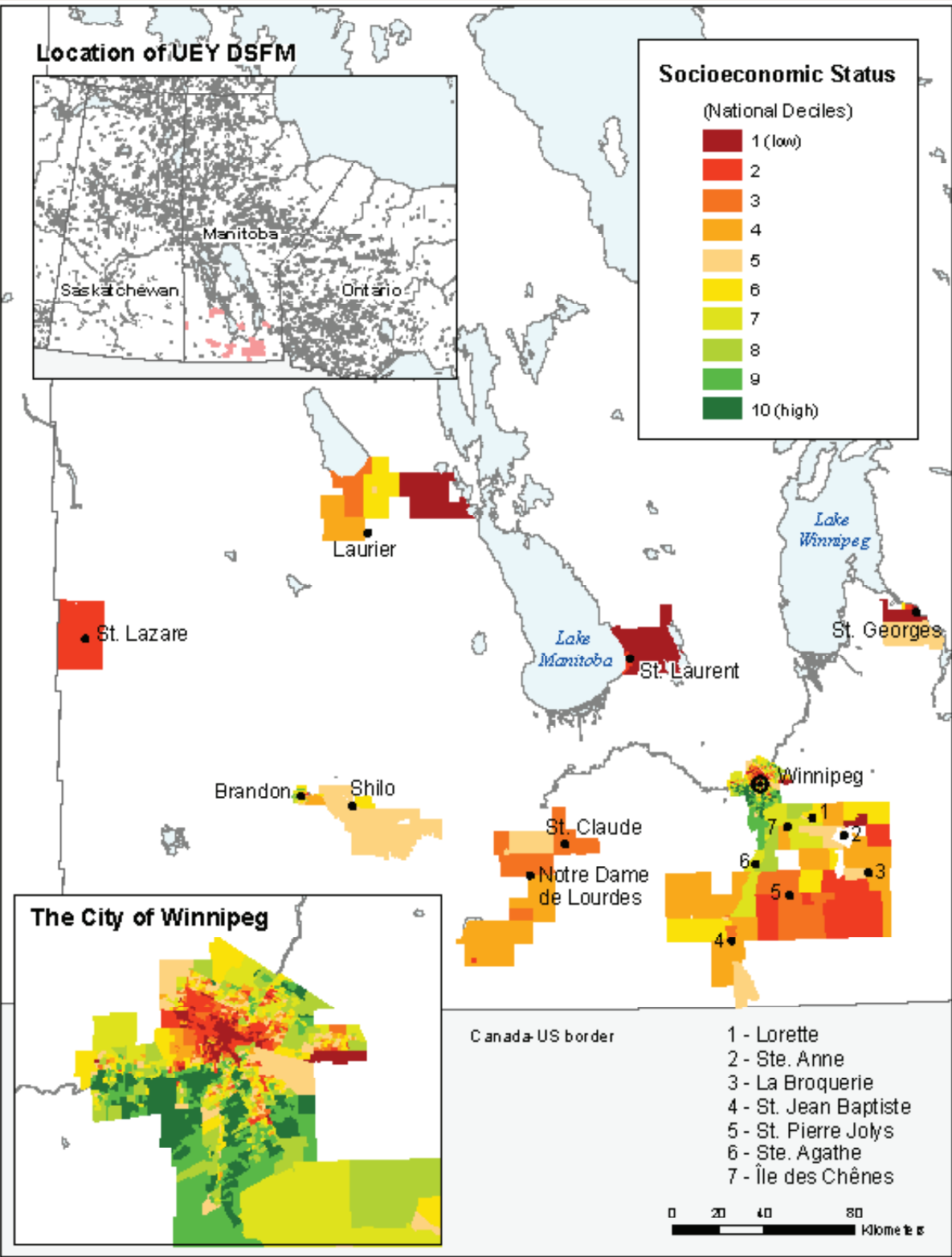
The KSI measure of SES was scaled to have a mean score of zero and a standard deviation of one for the Canadian population. The scores were also categorized on a ten-point scale, with the first category, or 'decile', including the 10 percent of Canadians with the lowest SES, the second category, or second decile, including the next highest 10 percent, and so on through to the tenth category, which includes the 10 percent that have the highest SES. The SES category of a dissemination area is shown on the map with the colours ranging from dark red (lowest 10%) through to dark green (highest 10%).

¹³ Socioeconomic status (SES) refers to the relative position of a person or family on an hierarchical social structure. It is a key concept in social science research, because it is related to most social outcomes, including people's physical and mental health, their long-term economic success, and their general well-being. An SES composite is usually based on people's income, level of education, and the nature of their occupations. Other family factors, such as family structure (i.e., family size, and single- or two-parent family) and whether the mother was a teenager when the child was born, are not considered dimensions of SES, even though they are correlated with SES and are usually related to children's developmental outcomes.

¹⁴ Willms, J.D. (2003). *Ten hypotheses about socioeconomic gradients and community differences in children's developmental outcomes*. Ottawa, Ontario: Applied Research Branch of Human Resources Development Canada.

¹⁵ The KSI measure of SES is comprised of five indicators measured at the level of the dissemination area: the percentage of adults who are employed, the percentage of adults in professional or semi-professional occupations, the percentage of adults in manual occupations, average family income, and the average number of years of education.

FIGURE 1-6. Socioeconomic Status of the DSFM



The map shows that the rural areas included in the UEY project area from very low to average SES (dark red to orange). The urban area is divided along SES lines, with lower SES DAs in the north of the city, and higher SES DAs in the south of the city. Overall, the average SES of the UEY project area is 0.01, which is very close to the national average.

As noted above, research based on the pilot studies and the NLSCY suggests that not all children in low-SES families have poor developmental outcomes. Some children from low-SES families have average or above-average scores on the outcome measures used in the study. Similarly, there are some children from high-SES families who do not fare well in their early development. Thus, the relationships observed only indicate that a child is more likely to experience developmental difficulties if he or she is from a low-SES family. Other aspects of family and community life also have a strong influence on children's outcomes.

Other Demographic Characteristics

In the Division scolaire franco-manitobaine, the PIDACS data indicated that 11% of the children in the sample were Aboriginal. In PIDACS, parents were asked whether any of the child's ancestors belonged to any of the following Aboriginal groups: North American Indian, Métis, or Inuit. If the child was a member of any of these groups, parents were asked whether the child was an Aboriginal person. Children were considered Aboriginal if the parents indicated that the child's ancestors and the child were Aboriginal. Data from the NLSCY indicate that the average is 10% among families with young children in Manitoba, and in Canada it is 4%.

About 4% of the children in the Division scolaire franco-manitobaine were born outside of Canada, based on the PIDACS data. Data from the NLSCY indicate that approximately 1% of children aged zero to five in Manitoba are immigrants, while 2% of Canadian children this age are immigrants.

In about 37% of the families in the Division scolaire franco-manitobaine sample, French was the language that both the mother and father had learned at home during childhood. In another 13% of the families, English was the childhood language of both parents. In 47% of the families, French was the childhood language of one parent while English was the childhood language of the other parent. In 3% of the families the parents spoke a language other than English or French during their childhood.

The preservation of the francophone language and culture is an important concern of many families in this community. Therefore, the PIDACS for the Division scolaire franco-manitobaine included a number of additional questions regarding children's and parents' use of language.

The PIDACS data indicate that about 37% of the mothers had received their schooling as a child in French only, while an additional 35% had received their schooling in both French and English. About 26% had received their schooling in English only, and an additional 1% had received their schooling in some other language, in some cases in combination with French. The profile of the fathers' schooling was more strongly oriented to English, with 40% having received their schooling in English only, and 24% in both English and French. Only 23% had received their schooling solely in French. An additional 2% of fathers had received their schooling in some other language, in some cases in combination with English.

Despite parents' childhood and schooling experiences, the use of language in the community has a strong Anglophone orientation. Sixty-two percent of the parents reported that they mainly used English when talking with their neighbours and an additional 26% used both French and English. Only about 12% reported using French when talking with neighbours.

Despite these findings regarding the use of language in the community, the PIDACS results regarding the use of language at home portray a different story. About 57% of the respondents (which in the Division scolaire franco-manitobaine was the mother for 89% of the sample) spoke to their child only in French, while 12% spoke only in English. Twenty-nine percent used both official languages, and the remaining 2% used some other language or a combination of French and another language.

Similarly, when talking to their mother, about 50% of the children spoke in French, while 18% spoke in English, and 31% used both English and French. Children were more likely to speak in English with their father than their mother. Only about 39% of the children spoke only in French with their father, while 38% spoke in English, and 21% spoke both French and English.

When parents were asked whether it was an easy decision to enroll their child in a Francophone school, 88% reported that it was an easy decision, while 12% found the decision to be difficult.

Together these findings suggest that while there is a strong orientation towards using French at home, and a desire to have their child educated in French, the prominent language in the community was English.

The next section of this report examines the outcomes for the children in the Division scolaire franco-manitobaine. This is followed by an examination of the family and community factors that influence outcomes and a description of the activities and resources that are used by the children in this community. This description includes a discussion of the access and use of French language in the community.



**HOW ARE CHILDREN DOING
IN THE DIVISION SCOLAIRE FRANCO-
MANITOBAINE?**

II. HOW ARE CHILDREN DOING IN THE DIVISION SCOLAIRE FRANCO-MANITOBAINE?

A. DEVELOPMENTAL OUTCOMES IN EARLY CHILDHOOD

The research on child development has provided guidance as to what developmental outcomes are most important at various stages of development. Efforts to monitor early childhood outcomes have emphasized developmental outcomes in five domains: (1) physical well-being and motor development, (2) social and emotional development, (3) approaches to learning, (4) language development, and (5) cognition and general knowledge.¹⁶ The combination of the PIDACS and EDI data provides information on all of these domains. This framework is consistent with the priorities of UNICEF, which include healthy growth and development, less disease and fewer illnesses, thinking and language skills, emotional and social skills, and self esteem.¹⁷

Most young Canadian children are healthy, exhibiting low rates of infant and childhood mortality and morbidity.¹⁸ Among pre-school children, asthma is a prominent health concern, which along with other chronic health problems contributes to respiratory illness. Allergies, chronic ear infections, and health problems stemming from injuries also affect many Canadian children. The prevalence of childhood obesity has increased dramatically in the past two decades,¹⁹ and has recently been recognized as a major health problem in Canada for children during the pre-school years.²⁰

¹⁶ Willms, J. D. & Beswick, J. F. (2005). *Early Years Evaluation - Teacher Assessment: Revised*. Fredericton, NB: Canadian Research Institute for Social Policy.

Rhode Island Kids Count (2005). *Getting Ready: Findings from the National School Readiness Indicators Initiative*, A 17-State partnership. Available on-line: http://www.gettingready.org/matriarch/MultiPiecePage.asp_Q_PageID_E_318_A_PageName_E_NationalSchoolReadinessIndicat.

¹⁷ UNICEF (2002). *UNICEF's priorities for children, 2002-2005*. New York: UNICEF.

¹⁸ Canadian Institute of Child Health (2000). *The Health of Canada's Children: A CICH profile*. Ottawa: Canadian Institute of Child Health.

¹⁹ Tremblay, M., & Willms, J. D. (2000). Secular trends in body mass index of Canadian children. *Canadian Medical Association Journal*, 163(11), 1429-1433.

²⁰ Canning, P. M., Courage, M. L., Frizzell, L. M. (2004). Prevalence of overweight and obesity in a provincial population of preschool children. *Canadian Medical Association Journal*, 171(3), 240-242.

Willms, J. D. (2004). Early childhood obesity: A call for early surveillance and preventive measures. *Canadian Medical Association Journal*, 171(3), 243-244.

Aside from indicators of children's health status, the domain of physical well-being also includes children's gross and fine motor development. Gross motor development pertains to children's use of large muscle groups to walk, sit, stand, and run. Fine motor development refers to the use of their hands to eat, draw, print, write, and perform many other detailed activities. By age five, most children can balance on one foot, hop, and do somersaults, as well as copy shapes, draw a person, and print some letters. Children vary in their rate of development of fine and gross motor development, but substantially poor development can indicate that a child may require medical attention or other special services.²¹

The domain of outcomes comprising social and emotional development includes positive social skills, such as children's ability to get along with other children, accept responsibility for their actions, and work independently. During the pre-school years some children are physically aggressive more often than other children their age,²² and when children enter school, hyperactivity and inattention emerge as important behavioural problems.²³ The term 'approaches to learning' pertains to children's engagement in learning, and comprises factors such as enthusiasm, curiosity, and persistence on tasks.

²¹ Shelov, S. P. (ed.) (2004). *Caring for Your Baby and Young Child: Birth to Age 5*. Elk Grove Village, IL: American Academy of Pediatrics.

²² Tremblay, R. E., Nagin, D. S., Séguin, J. R., Zoccolillo, M., Zelazo, P. D., Boivin, M., Pérouse, D., & Japel, C. (2004). Physical Aggression During Early Childhood: Trajectories and Predictors. *Pediatrics*, 114, 1, 43-50.

²³ Willms, J. D. (2002). Socioeconomic gradients for childhood vulnerability. In J. D. Willms (Ed.), *Vulnerable Children: Findings from Canada's National Longitudinal Survey of Children and Youth* (pp. 71-102). Edmonton, AB: The University of Alberta Press.

The rate at which children acquire language differs considerably among children, even among those from the same family. During the 1970s and 80s, researchers were concerned with whether variation in early literacy skills was attributable mainly to differences in children's innate capacity, or to differences in their exposure to speech and language. The evidence indicated that hereditary effects are relatively weak: only about 10 to 12% of the variation in children's vocabulary scores was explained by parents' vocabulary scores.²⁴ Recent research that has examined children's vocabulary growth during the pre-school years suggests that about 20% of the variation is attributable to the quantity of the mother's speech and the frequency with which mothers use particular words.²⁵ It is also related to children's exposure to language in the home and to the nature of their interactions with their parents.²⁶

Cognitive development includes the abilities to reason, understand relational concepts, build concepts, and work with mathematical concepts. During the pre-school years, these abilities are closely tied to children's language development. Together, language and cognitive development are key predictors of the rate at which children acquire reading skills in grades 1 and 2,²⁷ which in the longer term has important implications for their progress at school.

²⁴ Scarr, S., & Weinberg, R. A. (1978). The influence of "family background" on intellectual attainment. *American Sociological Review*, 43, 674-692.

²⁵ Huttenlocher, J., Haight, W., Bryk, A., Seltzer, M., & Lyons, T. (1991). Early vocabulary growth: Relation to language input and gender. *Developmental Psychology*, 27(2), 236-248.

²⁶ Hart, B., & Risley, T. R. (1995). *Meaningful differences in the everyday experience of young American children*. Baltimore: P. H. Brookes.

²⁷ Scarborough, H. S. (1998). Early identification of children at risk for reading disabilities: Phonological awareness and some other promising predictors. In B. K. Shapiro, A. J. Capute, & B. Shapiro (Eds.), *Specific reading disability: A view of the spectrum* (pp. 77-121). Hillsdale, NJ: Erlbaum.

Schatschneider, C., Fletcher, J. M., Francis, D. J., Carlson, C. D., & Foorman, B. R. (2004). Kindergarten prediction of reading skills: A longitudinal comparative analysis. *Journal of Educational Psychology*, 96(2), 265-282.

B. HOW CHILDREN'S DEVELOPMENTAL OUTCOMES WERE MEASURED

Information on each child's cognitive skills, behaviour, and physical health and well-being is based on the results from PIDACS direct assessments of children's developmental skills and the PIDACS parent interview, which includes a set of standardized questions that provide information about each child's behaviour and health. The information from PIDACS is supplemented with data from kindergarten teachers on how they felt the children in their classes were faring, collected using the *Early Development Instrument (EDI)*. The measures used in PIDACS and the EDI are described below.

PIDACS Direct Assessments of Children's Developmental Skills

The PIDACS includes three measures of children's developmental skills.²⁸

Receptive Vocabulary. Children's language development was assessed with the *Peabody Picture Vocabulary Test, Revised - PPVT-R*, which assesses the vocabulary children understand when they hear spoken words. This is called receptive vocabulary. The assessor says a word, and the child is asked to point to one of four pictures on an easel plate that corresponds to the word. The PPVT-R was used with English-speaking children and the *Échelle de vocabulaire en images Peabody (EVIP)* was used with French-speaking children. The scores were scaled to have a mean of 100 and a standard deviation of 15 for the Canadian PIDACS sample.

Number Knowledge. The *Number Knowledge* assessment assesses children's intuitive knowledge of numbers by assessing their understanding of quantity (more vs. less), their ability to count objects, their understanding of number sequence, and their ability to do simple arithmetic. The assessment is administered orally and the child must respond verbally without using paper or a pencil to figure out answers. The scores on this assessment were also scaled to have a mean of 100 and a standard deviation of 15 for the Canadian PIDACS sample.

Pre-literacy skills. An assessment of children's pre-literacy skills was based on the *Who Am I?*, an assessment that involves various copying and writing tasks. For example, it assesses children's ability to conceptualize and to reconstruct a geometrical shape and to use symbolic representations, as illustrated by their understanding and use of conventional symbols such as numbers, letters, and words. Children are asked to copy five shapes (such as a circle or a diamond) and to write their names, numbers, letters, words, and a sentence. As with the PPVT-R and Number Knowledge, these scores were scaled to have a mean of 100 and a standard deviation of 15 for the Canadian PIDACS sample.

²⁸ The PPVT was developed by Lloyd and Leota Dunn at the University of Hawaii, while the EVIP was developed by Claudia M. Thériault-Whalen at St. Thomas University, Fredericton, New Brunswick. The Number Knowledge assessment was developed by Dr. Robbie Case and his colleagues at the Ontario Institute for Studies in Education, University of Toronto. The Who Am I? was developed by Dr. Molly de Lemos and her colleagues at the Australian Council for Educational Research.

PIDACS Assessments of Behavioural Outcomes Based on Parent Interviews

Parents' perceptions of their kindergarten child's developmental outcomes include a measure of positive social behaviour and four behavioural problems that are displayed by some children this age: inattention, anxiety, depression and physical aggression. Each scale is based on several questions; for example, the parent is asked how often his or her child cannot sit still or is restless, and he or she answers with one of three possible responses: "never"; "sometimes"; or "often". The responses for each measure are assigned scores of 0, 1, or 2 for "never"; "sometimes"; or "often" respectively, and averaged across the questions to create a scale ranging from 0 to 2. On the measure of positive social behaviour, a child is considered to have a low score if he or she has a score that is less than or equal to 1.0. Similarly, a child is considered to have a behavioural problem if he or she has a score that is greater than or equal to 1.0 on the relevant measure.

Positive social behaviour. Children who exhibit higher levels of positive social behaviour are more likely to try to help and comfort others. They may offer to help pick up objects that another child has dropped or offer to help a child who is having trouble with a difficult task. They might also invite their peers to join in a game.

Inattention. Children who are inattentive tend to have trouble sitting still, are restless or easily distracted, have trouble sticking to any activity or concentrating for long periods, and may have difficulty waiting their turn in games or groups. Children who are considered 'hyperactive' often display these traits, but not all inattentive children are hyperactive.

Anxiety. Children with anxiety problems tend to be fearful, worried, or nervous and high-strung. Quite often they cry more than other children.

Depression. At this age, some children also display depressive symptoms, such as being unhappy or sad more often than other children, or having trouble enjoying activities.

Physical aggression. Children at age five can on occasion be hostile or aggressive towards others. However, some children are aggressive more often than others. For example, if another child accidentally hurts them, they assume that the other child meant to do it, and then react with anger and fighting. Some children at this age also physically attack others or threaten them, or they are cruel and bully other children.

PIDACS Assessments of Health Outcomes Based on Parent Interviews

The parent also provided information on the general health of his or her child, and indicated whether the child had any physical or mental or health problem that limited his or her child's activities at home, at school, or in transportation or play activities. This included only health conditions or problems that had lasted or were expected to last for at least six months. The parent was also asked if the child had a respiratory problem, such as hay fever or asthma; any food, digestive or other allergies; or other chronic conditions, such as heart problems, epilepsy, cerebral palsy, or a kidney condition.

Teachers' Perceptions of Children's Early Development

Kindergarten teachers provided an indication of how well they felt each of their students was faring in five developmental domains, using an instrument called the *Early Development Instrument (EDI)* which was developed by the Offord Centre for Child Studies. For example, the teachers were asked, "How would you rate this child's: ability to manipulate objects?", "proficiency at holding a pen, crayon, or a brush?", "ability to tell a story?" or "overall physical development?" and they responded on a scale ranging from "very poor" to "excellent". Many of the questions had similar rating scales, while some entailed checklists that required the teacher to indicate whether or not a child could do certain activities, such as write simple sentences or count to 20.

The five domains of the EDI are:

1. *Physical health and well-being*: children's motor skills, energy levels, fatigue and clumsiness, and their physical preparedness for the school day.
2. *Social competence*: self-confidence, tolerance, and children's ability to get along with other children, to accept responsibility for their own actions, and to work independently.
3. *Emotional maturity*: children's general emotional maturity, including minor problems with aggression, restlessness, distractibility, or inattentiveness, as well as excessive, regular sadness.
4. *Language and cognitive development*: mastery of the basics of reading and writing, interest in books, and numerical skills (e.g., recognizing numbers and counting).
5. *Communication skills and general knowledge*: children's general knowledge, their ability to articulate clearly, and their ability to understand and communicate in English or French.

C. THE DEVELOPMENTAL SKILLS OF CHILDREN IN THE DIVISION SCOLAIRE FRANCO-MANITOBAINE

The children of the Division scolaire franco-manitobaine (DSFM) were administered all of the direct assessments in French. Therefore their scores on the assessment of receptive vocabulary reflect their ability to understand words in French. This is an important consideration when interpreting these results, as some of the children would have had higher scores had they been assessed in English. The same argument applies regarding the scores for number knowledge and pre-literacy skills, but to a lesser degree.

The children of the Division scolaire franco-manitobaine had an average score of 79.5 on the assessment of receptive vocabulary. This is more than 20 points below the Canadian PIDACS average. The average score on the assessment of number knowledge was 93.8, which is also considerably lower than the Canadian PIDACS average. On the assessment of pre-literacy skills, the children of the Division scolaire franco-manitobaine had an average score of 93.4, which is also substantially below the Canadian PIDACS average.

TABLE 2-1. Mean Scores on the Direct Assessments

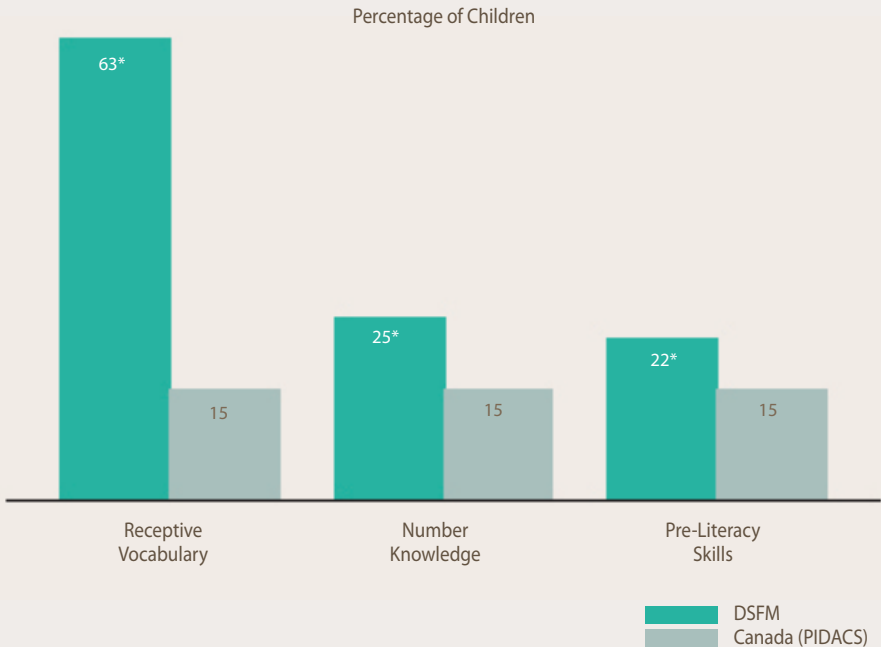
	DSFM		CANADIAN AVERAGE (PIDACS)	
	Mean	SD	Mean	SD
Receptive Vocabulary (n = 319)	79.5	20.0	100.0	15.0
Number Knowledge (n = 320)	93.8	12.3	100.0	15.0
Pre-Literacy Skills (n = 319)	93.4	11.2	100.0	15.0

Note: Figures in bold text differ significantly from the Canadian PIDACS average.
Source: PIDACS, 2006-07.

Children with very low scores on the direct assessments used in PIDACS are at risk of experiencing slow development in their reading skills as they proceed through the elementary grades. The choice of a cut-off score to define vulnerability is rather arbitrary. For the Peabody Picture Vocabulary Test, a score of 85 is often set as the low score threshold. Children with low scores on the PPVT are at risk of experiencing difficulties learning to read,²⁹ and in Canada, about 20% of children are at risk of not making the critical transition from learning-to-read to reading-to-learn. In this study we set the low-score threshold at 85, which is about one standard deviation below the mean, for all three PIDACS direct assessment measures.

Figure 2-1 shows the percentage of children in the Division scolaire franco-manitobaine with scores below 85 on the three direct assessments. About 63% of the children in this community had low scores on the assessment of receptive vocabulary. This is a much higher prevalence of vulnerability than in the Canadian PIDACS population, which is to be expected given that children’s use of French is not always reinforced in the local community. In contrast, 25% of the children in the Division scolaire franco-manitobaine had low scores on the assessment of number knowledge, and 22% had low scores on the assessment of pre-literacy skills. These rates of vulnerability are also significantly above those for the Canadian PIDACS population, but lower than the prevalence for receptive vocabulary. This reflects the nature of the number knowledge and pre-literacy skills assessments, which do not depend as strongly on children’s knowledge of French as does the assessment of receptive vocabulary.

FIGURE 2-1. Children with Low Scores on the Direct Assessments



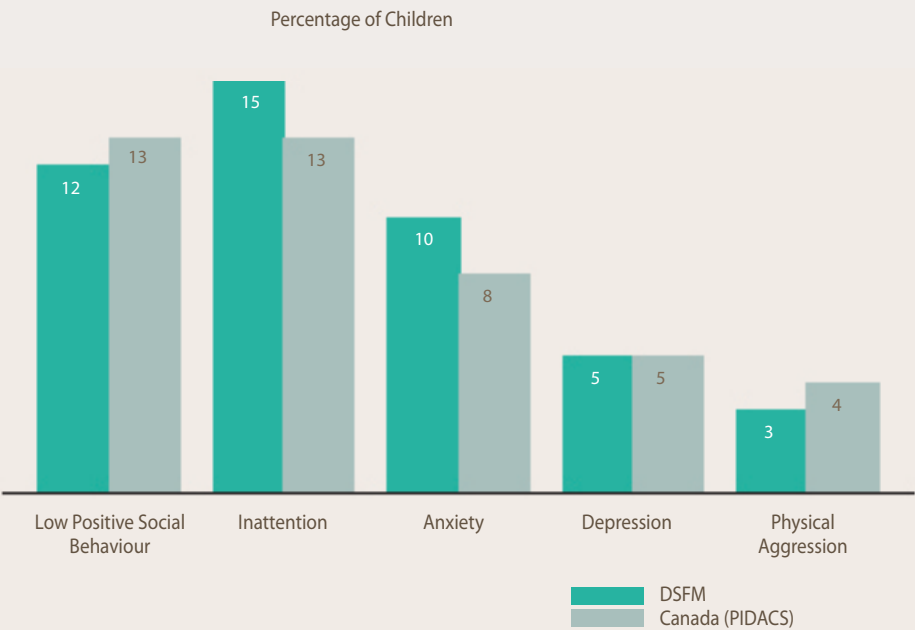
Note: Statistically significant differences are indicated with an asterisk.
Source: PIDACS, 2006-07.

²⁹ Speece, D. L., Ritchey, K. D., Cooper, D. H., Roth, F. P., Schatschneider, C. (2004). Growth in early reading skills from kindergarten to third grade. *Contemporary Educational Psychology*, 29, 312-332.

D. BEHAVIOURAL OUTCOMES IN THE DIVISION SCOLAIRE FRANCO-MANITOBAINE

Figure 2-2 shows the prevalence of children with low scores on the measures of positive social behaviour and the four types of behavioural problems, based on the reports of parents in the PIDACS interview. In the Division scolaire franco-manitobaine about 12% of the children displayed low positive social behaviour; this is comparable to the national PIDACS average of 13%. About 15% of the children in the community had problems with inattention, 10% displayed high levels of anxiety, 5% displayed depressive symptoms, and 3% were physically aggressive. These results were not significantly different from the Canadian PIDACS averages.

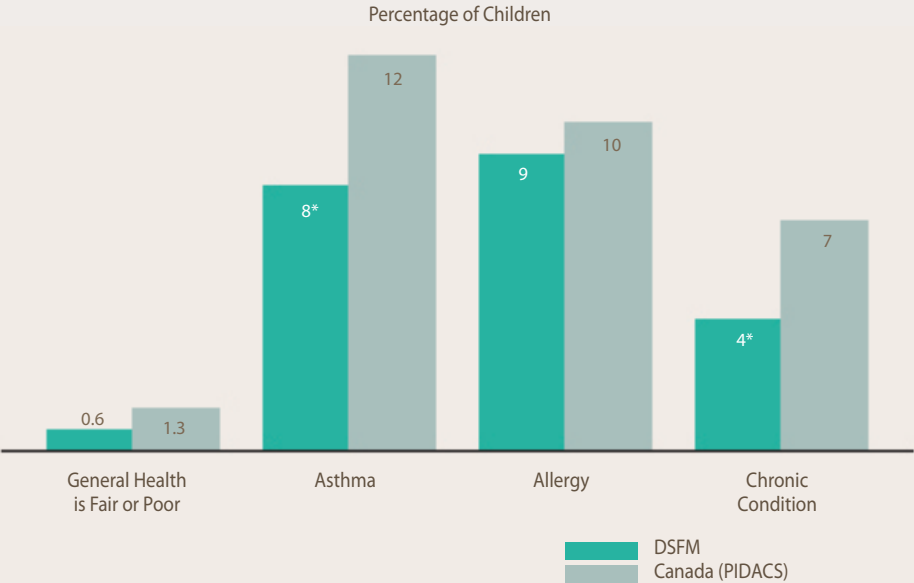
FIGURE 2-2. Children with Low Positive Social Behaviour and Behavioural Problems



Note: Statistically significant differences are indicated with an asterisk.
Source: PIDACS, 2006-07.

E. HEALTH OUTCOMES IN THE DIVISION SCOLAIRE FRANCO-MANITOBAINE

FIGURE 2-3. Children with Health Problems



Note: Statistically significant differences are indicated with an asterisk.
Source: PIDACS, 2006-07.

Figure 2-3 shows that in the Division scolaire franco-manitobaine, only about 0.6% of the children were considered to be in fair or poor health by their parents. The estimates of the prevalence of children with asthma, allergies, and chronic health problems were 8%, 9%, and 4% respectively. The prevalence of children with asthma and chronic conditions was significantly below the national PIDACS average, while for allergies, the prevalence did not differ significantly from the Canadian PIDACS average.

F. TEACHERS' PERCEPTIONS OF CHILDREN'S DEVELOPMENT AT SCHOOL ENTRY

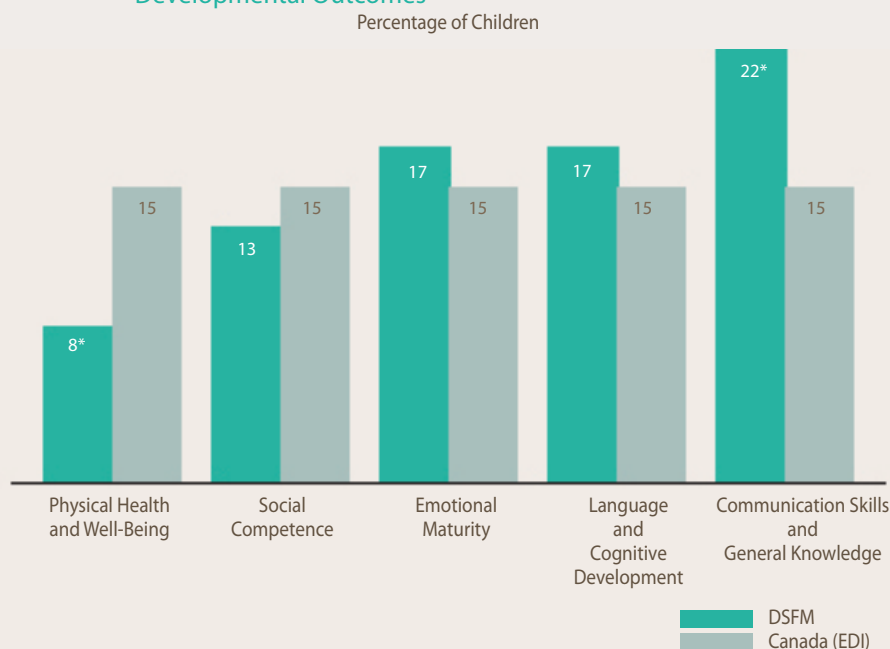
Table 2-2 shows the mean scores for each of the developmental domains included in the *Early Developmental Instrument (EDI)*, based on kindergarten teachers' assessments of children in their classes. The average teacher ratings for the Division scolaire franco-manitobaine are comparable to the national EDI average for three of the measures: 'social competence', 'emotional maturity', and 'communication skills and general knowledge'. The average score on 'physical health and well-being' was significantly above the national EDI average, while the average score for 'language and cognitive development' was below the national EDI average.

TABLE 2-2. Mean Scores on the Early Development Instrument

	DSFM		CANADA (EDI)	
	Mean	SD	Mean	SD
Physical Health and Well-Being	9.2	1.1	8.7	1.4
Social Competence	8.3	1.9	8.2	1.9
Emotional Maturity	7.7	1.6	7.9	1.6
Language and Cognitive Development	8.0	1.9	8.3	1.9
Communication Skills and General Knowledge	7.3	3.0	7.5	2.7

Note: Figures in bold text differ significantly from the Canadian EDI average.
Source: Early Development Instrument, 2005-06.

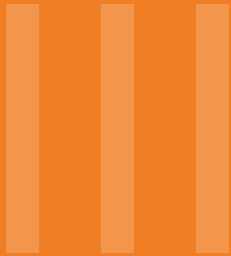
For the analyses in this report, a *low-score threshold* for each of the EDI measures was set such that 15% of the children in the Canadian EDI sample scored below this threshold. Therefore, the estimated prevalence of Canadian children considered to have low scores based on the EDI assessment is 15%. This is a similar approach used for the PIDACS direct assessments, and so for each community, we can ask, "What is the prevalence of children with low scores in each of the developmental domains?" If the prevalence for a community is substantially above or below 15%, it suggests the children in that community are faring particularly poorly or well on this measure compared with the results for all Canadian children.

FIGURE 2-4. Children with Low Scores on Teachers' Ratings of Developmental Outcomes

Note: Statistically significant differences are indicated with an asterisk.

Source: Early Development Instrument, 2005-06.

The prevalence of children that had teacher ratings below the at-risk threshold ranged from 8% to 22% across the five scales. On the measures of 'social competence', 'emotional maturity', and 'language and cognitive development', the percentage of children that might be considered at-risk was comparable to the national EDI average. However, on the measure of 'physical health and well-being' the prevalence was 8%, which is significantly below the national EDI average, while on the measure of 'communication skills and general knowledge' the percentage of children with low ratings was 22%, which is considerably higher than the national EDI average.



FAMILY AND COMMUNITY SUPPORT FOR EARLY CHILDHOOD DEVELOPMENT

III. FAMILY AND COMMUNITY SUPPORT FOR EARLY CHILDHOOD DEVELOPMENT

A. FAMILY LIFE IN THE DIVISION SCOLAIRE FRANCO-MANITOBAINE

The PIDACS included measures of four key aspects of family life that were identified in earlier research based on the NLSCY to be strongly related to children's developmental outcomes:

"The research indicates that the important factors are parenting skills, the cohesiveness of the family unit, the mental health of the mother, and the extent to which parents engage with their children; and that these features affect and are affected by the neighbourhood, the school and the wider community".³⁰

These measures and the results pertaining to the Division scolaire franco-manitobaine (DSFM) are described below.

Family Functioning and Maternal Depression

The concept of family functioning refers mainly to the cohesiveness and adaptability of the family. It concerns how well the family functions as a unit, not just the strength of the relationships between spouses or between parents and their children. A number of studies have shown that family functioning is related to children's developmental outcomes, especially children's behaviour.³¹

³⁰ Willms, J. D. (2002). Research findings bearing on Canadian Social Policy. In J. D. Willms, (Ed.), *Vulnerable Children: Findings from Canada's National Longitudinal Study of Children and Youth* (pp.331-58). Edmonton, Alberta: University of Alberta Press. (page 356)

³¹ Racine, Y. & Boyle, M. H. (2002). Family functioning and children's behaviour problems. In J. D. Willms, (Ed.), *Vulnerable Children: Findings from Canada's National Longitudinal Study of Children and Youth* (pp. 199-210). Edmonton, Alberta: University of Alberta Press.

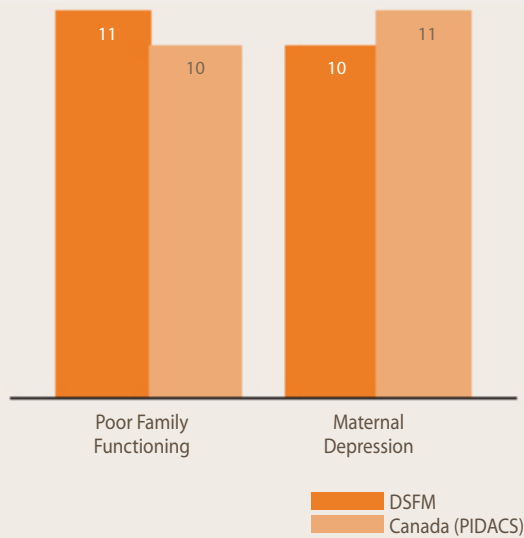
In this study, family functioning is assessed with 12 items pertaining to a family's ability to communicate, to make decisions and solve problems as a group, to discuss feelings and concerns, to get along together, and to feel accepted for whom they are. The total scores on the scale range from 0 to 36, with higher scores indicating a more positively functioning family. A cut-off score of 24 was used to denote families that had poor family functioning. About 10% of the families in the 21 UEY communities assessed with PIDACS in 2006-07 (i.e., the Canadian PIDACS data) scored below 24 on this scale.

About one in eight mothers experience post-partum depression, and for about one-quarter of these mothers the symptoms can persist for more than a year. Depression is often accompanied by insomnia, emotional problems, anxiety, and feelings of guilt. These in turn can have adverse effects on a mother's interactions with her child, leading to poorer social and cognitive developmental outcomes.³² Depression among fathers may also have adverse effects, but the number of fathers studied in earlier research based on UEY and the NLSCY was insufficient to estimate its effects.

³² Murray, L., & Cooper, P. (1997). Effects of postnatal depression on infant development. *Archives of Disease in Childhood*, 72(2), 99-101.

Somers, M. & Willms, J. D. (2002). Maternal depression and childhood vulnerability. In J. D. Willms, (Ed.), *Vulnerable Children: Findings from Canada's National Longitudinal Study of Children and Youth* (pp.211-228). Edmonton, AB: University of Alberta Press.

FIGURE 3-1. Families with Poor Family Functioning and Mothers with Signs of Depression
Percentage of Families



Note: Statistically significant differences are indicated with an asterisk.
Source: PIDACS, 2006-07.

The PIDACS interview included ten items pertaining to maternal depression. Respondents were presented with a set of statements describing certain feelings and behaviours and asked to indicate how often they felt or behaved that way during the previous week. The scores were scaled on a ten-point scale, and a low-score cut-off of 2.5 was used to denote mothers who were displaying strong signs of depression. On statements such as: “I felt that I could not shake off the blues, even with help from my family or friends”, “I felt lonely”, and “I had crying spells”, these mothers would have indicated that they felt this way “occasionally or a moderate amount of time (3-4 days per week)” or “most or all of the time (5-7 days per week)”. The cut-off of 2.5 resulted in a prevalence of mothers indicating signs of depression of about 11%. This prevalence is comparable to that found in other studies, including the NLSCY.

Figure 3-1 shows the prevalence of families with poor family functioning and the prevalence of maternal depression. About 11% of the families in the Division scolaire franco-manitobaine had low scores on the measure of family functioning, which is comparable to the Canadian PIDACS average. The prevalence of mothers displaying significant signs of depression was 10%, which is also comparable to the national PIDACS average.

Parenting Practices

A number of studies have shown that children have better developmental outcomes when parents monitor their behaviour, are responsive to their needs, and encourage independence with a democratic approach.³³ This style of parenting is called 'authoritative' parenting, which stands in contrast to 'authoritarian' parenting, characterized by parents being highly controlling and somewhat harsh in their approach to discipline, and 'permissive' parenting, characterized by parents being overly indulgent and setting few limits for behaviour. Other research, including research based on the NLSCY, has also shown that parental engagement with children in activities such as reading to them, playing games with them, or simply talking and laughing with them has positive effects on their development.

In PIDACS, parents answered 28 questions that were used to develop a ten-point scale for each of four types of parenting practices.

Love and Support: This scale measures the extent to which parents are loving, responsive to the child's needs, and recognize the child's individuality. Parents who are loving and supportive tend to praise their children more, and are warm and expressive. Parents would score low on this measure if they tended to be harsh with their children, neglectful, or detached.

Authority: This scale measures parents' efforts to socialize their child into the family and society by supervising the child, making demands for mature behaviour, and demanding compliance. Parents scoring high on this scale tend to set boundaries and expectations. They consistently reinforce behaviour that is 'in bounds', and when their child is 'out of bounds' they guide him or her towards appropriate behaviour. These parents would be intolerant of misbehaviour, but not over-controlling.

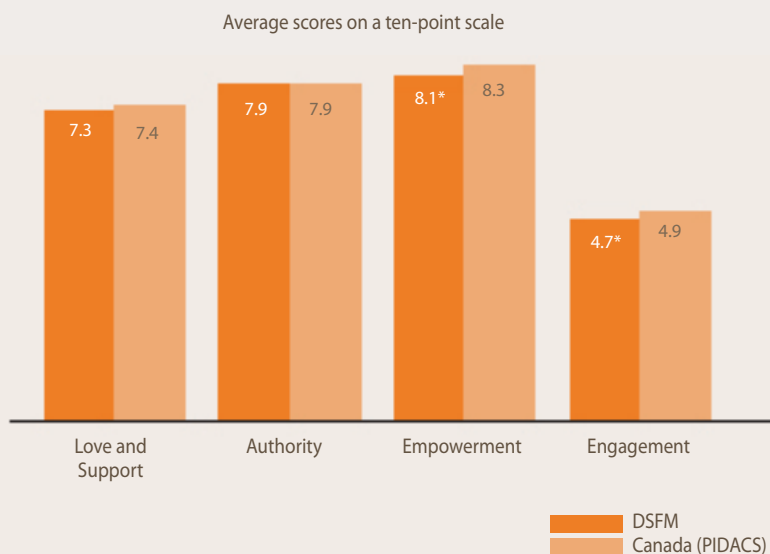
³³ Baumrind, D. (1991). The influence of parenting style on adolescent competence and substance abuse. *Journal of Early Adolescence*, 11(1), 56-95.

Chao, R. K. & Willms, J. D. (2002). The effects of parenting practices on children's outcomes. In J. D. Willms, (Ed.), *Vulnerable Children: Findings from Canada's National Longitudinal Study of Children and Youth* (pp. 149-165). Edmonton, AB: University of Alberta Press.

Empowerment: Parents that empower their children provide opportunities for them to express their individuality, pursue their interests, and develop a sense of social responsibility. They consciously use daily events and situations to teach concepts such as honesty, fairness, equality, integrity, conflict resolution, respect for others, and responsibility. Children are given useful roles in the family, and opportunities to care for a pet or for other people. Empowering parents enable children to learn about and explore spiritual concepts.

Engagement: Parents who are engaged spend more time with their child in constructive activities, such as playing, reading to their child, singing songs, and pursuing physical activities. This scale measures the extent of parents' engagement in these activities as well as their efforts to teach specific concepts such as the names and sounds of letters, or counting.

The first two aspects of parenting practices measured with PIDACS, 'love and support' and 'authority', are traditional measures associated with the three types of parenting style described above. Parents who score high on both of these measures are considered to have an authoritative parenting style, while those who score high on 'love and support' but low on 'authority' are considered permissive, and those who score low on 'love and support' but high on 'authority' are considered authoritarian. The third and fourth aspects of parenting practices measured in PIDACS, 'empowerment' and 'engagement', are also related to children's developmental outcomes, but are not used to classify parents' style of parenting.

FIGURE 3-2. Positive Parenting Practices

Note: Statistically significant differences are indicated with an asterisk.
Source: PIDACS, 2006-07.

Figure 3-2 shows the scores on the four parenting scales for the Division scolaire franco-manitobaine.³⁴ The Division scolaire franco-manitobaine's average scores on 'empowerment' and 'engagement' were lower than the Canadian PIDACS average. The difference in both cases was 0.2, which is statistically significant, but not large in substantive terms. The community's average scores on 'love and support' and 'authority' were comparable to Canadian PIDACS average.

One of the most important aspects of parental engagement with children is reading to the child. In the Division scolaire franco-manitobaine, 82% of the parents read to their child at least once every day. This is significantly higher than the Canadian PIDACS average of 77%. The PIDACS data for the Division scolaire franco-manitobaine also indicated that about 48% of children looked at books only in French, and an additional 51% looked at books in both languages. Less than 1% of the children looked at books only in English. Also, 69% of the parents reported that there were library or bookmobile services available in French, and an additional 18% indicated availability in French and English. One percent of parents indicated that library services were available only in English, and 12% indicated that there were no library services available.

³⁴ The results on the ten-point scales were rounded to the nearest one-tenth point, which differ from the graphs displaying percentages, which are rounded to the nearest whole percent.

B. CHILDREN'S PARTICIPATION IN COMMUNITY ACTIVITIES

PIDACS included a number of questions regarding the nature of activities that children are engaged in and the family and children's use of community resources. The neighbourhood and the wider community are the centre of most young children's lives outside the family home. They provide opportunities for children to play, meet friends, and interact with adults. Although research on the effects of community resources has been quite limited, access to resources undoubtedly plays an important role in children's development.³⁵

An important example is the opportunity to engage in sports activities in the local neighbourhood. Research on Canadian youth has found that children's involvement in unorganized sports is an important protective factor against childhood obesity, more so than participation in organized sports involving a coach or instructor. The amount of time children spend watching television and videos or playing computer games is a risk factor for childhood obesity.³⁶ In this case, the Canadian average levels of participation in organized and unorganized sports activities are arguably not the best benchmarks; these levels of participation are considered too low by many researchers, such as those who compile the annual report card for Active Healthy Kids Canada. Similarly, researchers maintain that Canadian children spend too much time in front of a television or computer.³⁷

³⁵ Connor, S. & Brink, S. (1999). *Understanding the Early Years – Community Impacts on Child Development*. Hull: Applied Research Branch, Strategic Policy. Human Resources and Skills Development Canada.

Hertzman, C. & Kohen, D. (2003). Neighbourhoods matter for child development. *Transitions, Autumn*, 3-5.

³⁶ Tremblay, M.S. and Willms, J.D. (2003). Is the Canadian childhood obesity epidemic related to physical inactivity? *International Journal of Obesity*, 27(9), 1100-1105.

³⁷ Active Healthy Kids Canada (2007). *Older but not wiser: Canada's Future at Risk. Canada's Report Card on Physical Activity for Children and Youth – 2007*. Toronto: Author.

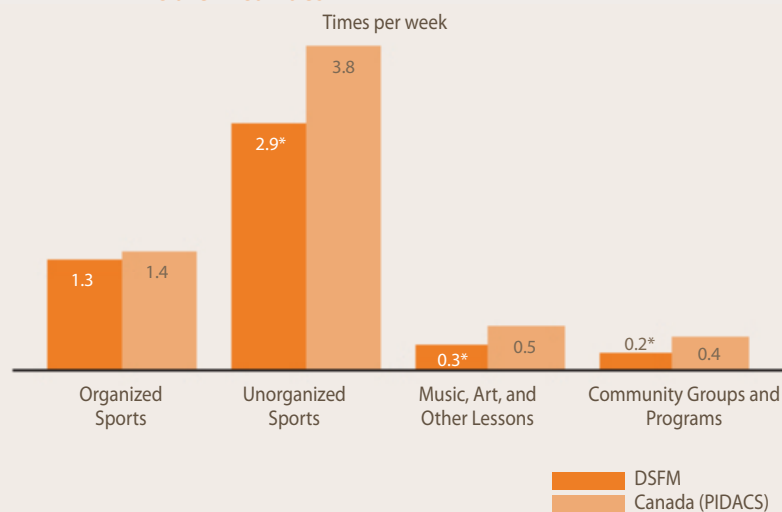
Physical and Leisure Activity

Figure 3-3 shows the number of times per week that children in the Division scolaire franco-manitobaine were engaged in sports and other activities. On average, they were engaged in organized sports that involve a coach or instructor about 1.3 times per week, which is comparable to the Canadian PIDACS average. The children were involved in unorganized sports about 2.9 times per week, which is significantly below the Canadian PIDACS average. Unorganized sports do not involve a coach or instructor, and thus can include many types of activities that children engage in such as running, swimming, or sports activities in their neighbourhood. Although the level of activity of the children in this community is close to the Canadian PIDACS average, Canada's Physical Activity Guide for Children and Youth recommends that children accumulate 20 to 30 minutes of moderate exercise or 30 to 60 minutes of light or moderate exercise every day.³⁸

The participation of the Division scolaire franco-manitobaine children in art, music and other cultural activities is lower than the Canadian PIDACS average, as is their participation in clubs, groups, and community programs such as Beavers, Sparks, and church groups.

The PIDACS data for the Division scolaire franco-manitobaine indicate that organized sports programs are available in French for 37% of the families, while they are available in English for 59% of the families, and not available at all for 22% of the families. Only 21% of the parents reported that lessons in art and music were available in French, and 22% indicated that they were available in English. Sixty-two percent indicated that they were unavailable.

FIGURE 3-3. Children's Participation in Sports and Other Activities

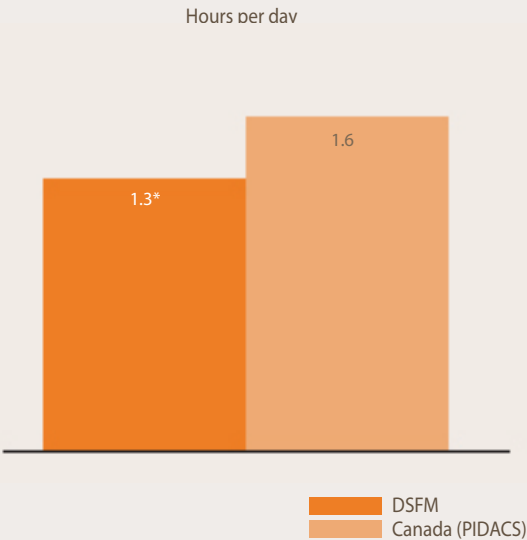


Note: Statistically significant differences are indicated with an asterisk.

Source: PIDACS, 2006-07.

³⁸ Public Health Agency of Canada (2007). Canada's physical activity guides for children and youth. Online at: http://www.phac-aspc.gc.ca/pau-uap/paguide/child_youth/index.html.

FIGURE 3-4. Time Spent Watching Television or Videos



Note: Statistically significant differences are indicated with an asterisk.

Source: PIDACS, 2006-07.

The children in the Division scolaire franco-manitobaine spend on average about 1.3 hours per day watching television or videos, which is significantly below the Canadian PIDACS average. The majority of children in the Division scolaire franco-manitobaine, 58%, watched television or videos in both French and English, while 11% did these activities only in French. Thirty-one percent of children watched television or videos only in English.

Use of Community Resources

PIDACS asked parents a number of questions about their child's use of educational, entertainment, cultural, and recreational resources in their community. The results give an indication of how often during the previous 12 months children used the following resources:

Educational Resources

- book clubs and reading programs;
- family resource centres or drop-in programs;
- educational or science centres;

Entertainment and Cultural Resources

- sports events, local or professional;
- movies;
- museums, art galleries, or exhibits;
- plays or musical performances;

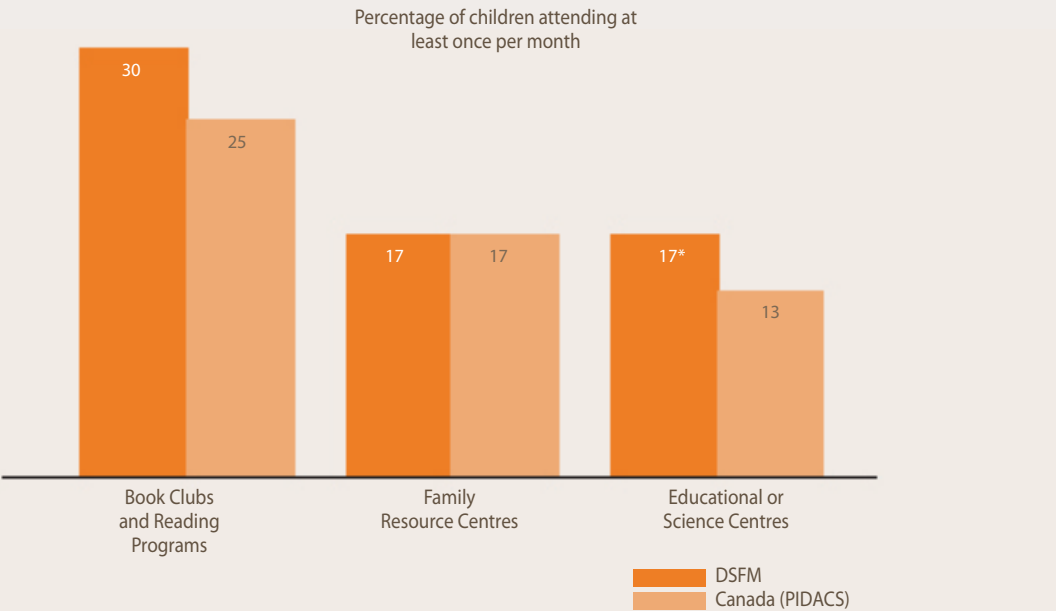
Recreational Resources

- parks, play spaces and recreational trails;
- beaches, indoor or outdoor pools, or wading pools;
- skating/hockey rinks or skiing facilities;
- recreational or community centres;
- provincial or national parks and camping areas.

The availability of each type of educational, entertainment, cultural and recreational resource differs among communities, and in some communities the use of particular resources is low because they are not readily available in the community.

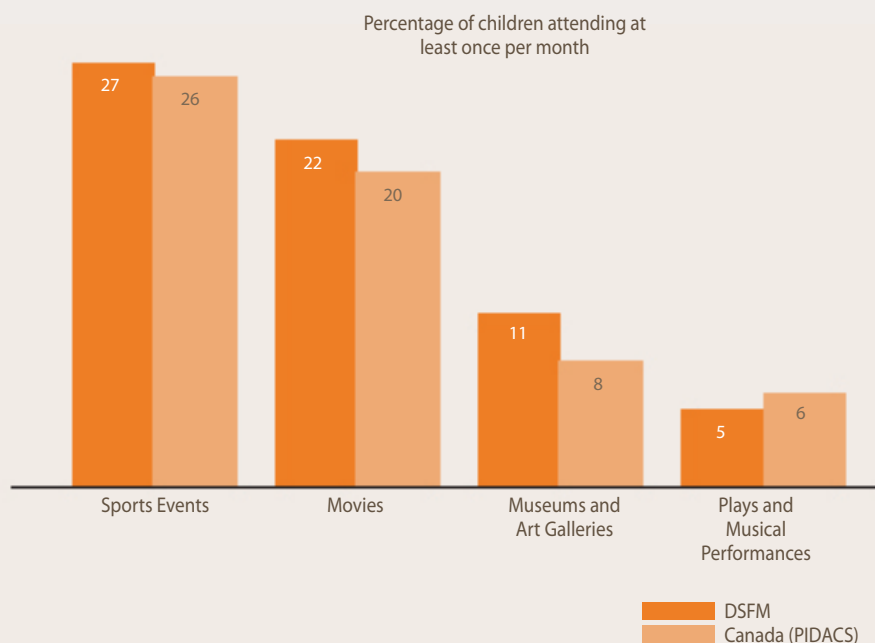
Figures 3-5, 3-6, and 3-7 show the percentage of children in the Division scolaire franco-manitobaine that used these various kinds of resources.

FIGURE 3-5. Use of Educational Resources



Note: Statistically significant differences are indicated with an asterisk.
Source: PIDACS, 2006-07.

The children in the Division scolaire franco-manitobaine frequently attended book clubs or reading programs with their parents. About 30% of the children participated in this activity at least once per month, which is comparable to the Canadian PIDACS average. About 17% of the children in this community attended activities at a family resource centre at least once per month, which is also comparable to the Canadian PIDACS average of 17%. About 17% of the children visited educational or science centres, which is significantly higher than the frequency with which Canadian children this age participated in this kind of activity.

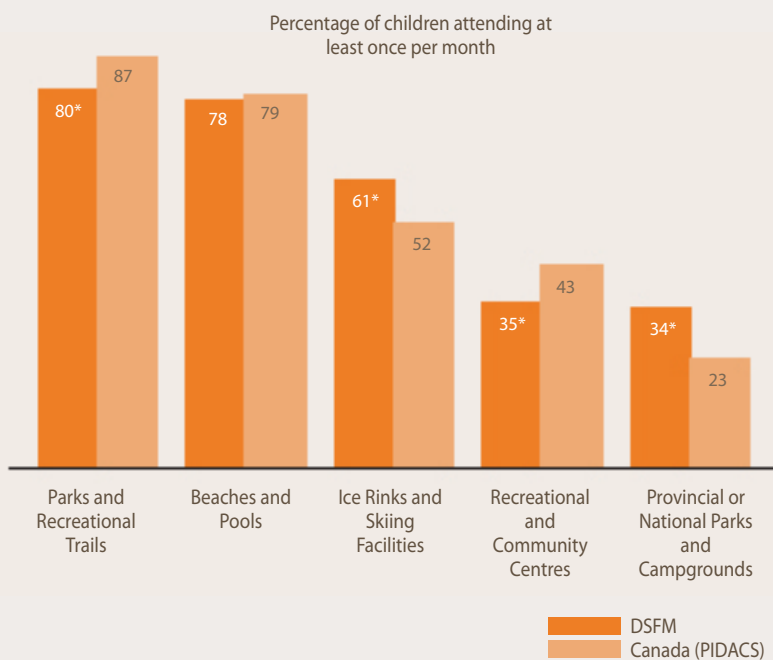
FIGURE 3-6. Use of Entertainment and Cultural Resources

Note: Statistically significant differences are indicated with an asterisk.

Source: PIDACS, 2006-07.

Attendance at sports events was a common activity for the children of the Division scolaire franco-manitobaine, with about 27% attending sports events at least once per month. Going to movies was also a popular activity, with about 22% of the children attending movies at least once per month. Eleven percent of the children visited museums and art galleries, and about 5% attended plays and musical performances. These results are comparable to the Canadian PIDACS averages for all four types of activities.

Thirty percent of the Division scolaire franco-manitobaine parents reported that movies, theatre, or musicals were offered only in French, and another 36% indicated that they were offered in both French and English. Twenty-one percent of parents indicated that these resources were offered only in English, and another 14% indicated that they were not available in their community.

FIGURE 3-7. Use of Recreational Resources

Note: Statistically significant differences are indicated with an asterisk.

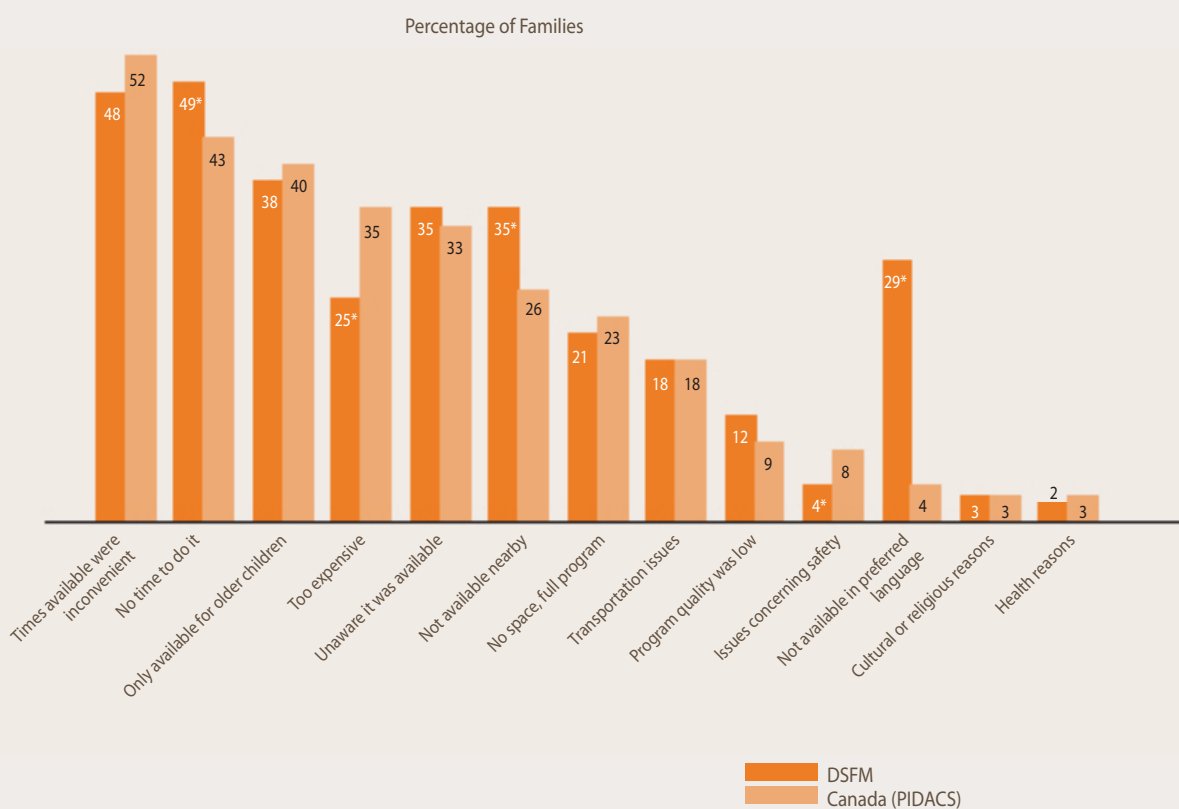
Source: PIDACS, 2006-07.

The children in the Division scolaire franco-manitobaine, like other Canadian children, frequently used parks and recreational trails, and beaches and swimming pools, although their use of parks and recreational trails was less frequent than that of other Canadian children. About three of every five children used skating and hockey rinks and skiing facilities at least once per month, which is more frequent than the Canadian PIDACS average. About 35% of the children in this community used local recreation and community centres, which is less frequent than the Canadian average. About 34% regularly visited provincial or national parks or camping areas, which is a higher participation rate than that of other Canadian children.

Barriers to Family Use of Programs and Community Resources

The factors that facilitate or impede children's participation in community activities vary among communities. PIDACS included a set of questions about the factors that parents felt were barriers to their children's participation. For the full PIDACS sample, the barriers to participation, in order of the frequency indicated by parents' responses, were:

- a. Programs were not available at convenient times.
- b. There was not enough time.
- c. Programs were only available to older children.
- d. Programs were too costly.
- e. Parents were unaware that the resource existed.
- f. The programs of interest were not available in the community.
- g. No space available in program (e.g., program full).
- h. Getting to the program or service would have been difficult (e.g., no parking, no bus, no car).
- i. Quality of the program provided.
- j. Safety concerns.
- k. Programs were not available in preferred language.
- l. Cultural or religious reasons.
- m. Health reasons.

FIGURE 3-8. Barriers to the Use of Programs and Resources

Note: Statistically significant differences are indicated with an asterisk.
Source: PIDACS, 2006-07.

Figure 3-8 shows the percentage of parents for whom these barriers were a concern in the Division scolaire franco-manitobaine. As in many other communities, the unavailability of programs for children this age and the unavailability of programs nearby were important barriers identified by the parents in the Division scolaire franco-manitobaine. A convenient time and finding time to participate were also important barriers for families in this community. As many families in this community were employed, time was a significant factor for nearly one-half of the families. However, the most notable barriers to participation in the Division scolaire franco-manitobaine were that programs not available nearby or not offered in their preferred language. The profile of other barriers to participation was similar to the Canadian profile with one exception: relatively few parents in the Division scolaire franco-manitobaine had concerns about safety.

C. USE OF CHILD-CARE ARRANGEMENTS

High quality child-care programs can have strong and enduring effects on a wide range of early childhood outcomes,³⁹ and generally, the effects are stronger for children from low SES backgrounds.⁴⁰ One must stress, however, the importance of 'high quality': programs are effective if they have developmentally appropriate practices, a curriculum that emphasizes language development, a low child-to-teacher ratio, and programming that is embedded in local service delivery systems.⁴¹ The quality of child-care programs tends to vary considerably in Canada, and therefore their effects also vary.⁴²

In PIDACS, the parents were asked a series of questions about the types of care arrangements they used while they were working or studying. Parents were asked whether their child was cared for outside the home, and if so, how the care was provided and for how many hours. Table 3-1 summarizes the findings.

³⁹ Currie, J. (2001). Early childhood education programs. *Journal of Economic Perspectives*, 15, 213–238.

Schweinhart, L. J. & Weikart, D. P. (1997). The High/Scope preschool curriculum comparison study through age 23. *Early Childhood Research Quarterly*, 12(2), 117–43.

Shonkoff, J., & Phillips (2000). *From neurons to neighborhoods: The science of early childhood development*. Washington, DC: National Academy Press.

⁴⁰ Burchinal, M. R., Peisner-Feinberg, E., Bryant, D. M. & Clifford, R. M. (2000). Children's social and cognitive development and child-care quality: Testing for differential associations related to poverty, gender or ethnicity. *Applied Developmental Science*, 4(3), 149–165.

Kohen, D. E., Hertzman, C. & Willms, J.D. (2002). The importance of quality childcare. In J. D. Willms (Ed.). *Vulnerable Children: Findings from Canada's National Longitudinal Survey of Children and Youth*. Edmonton, AB: The University of Alberta Press (pp. 261–276).

⁴¹ Ramey, C. T. & Ramey, S. L. (1998). Early intervention and early experience. *American Psychologist*, 53(2), 109–120.

⁴² Boyle, M. H. & Willms, J. D. (2002). Impact evaluation of a national, community-based program for at-risk children in Canada. *Canadian Public Policy*, 28(3), 461–481.

Organisation for Economic Cooperation and Development (2006). *Starting strong II: Early childhood education and care*. Paris: Author.

In the Division scolaire franco-manitobaine, 53% of the families cared for their children at home without any other type of child care arrangement. For another 15% of families, care was provided by a relative, either in the home or in another setting, or by an older sibling at home. For those that used an alternate child care arrangement, the most frequent type was a before- or after-school program, with about 13% of the children in this type of program. The results also suggested that among those using a child care arrangement, 60% used only one type of arrangement, while 40% used two or more different types of arrangements. On average, children were in some type of care arrangement for about 11 hours per week, which is substantially lower than the Canadian PIDACS average.

TABLE 3-1. Use of Child-Care Arrangements

	DSFM	CANADA (PIDACS)
	PERCENT	
Percent not using a child-care arrangement	53	42
Most frequently used type of care arrangement		
In own home by a relative (excluding siblings)	6	8
In own home by a sibling	1	1
Someone else's home by a relative	8	10
In own home by a non-relative	3	5
Someone else's home by a non-relative	7	15
Daycare centre	6	10
Before- or after-school program	13	9
Other child care arrangement	2	1
Percent using at least one type of care arrangement	47	58
Among those using a care arrangement:	PERCENT	
Use of multiple types of care arrangements		
One only	60	59
Two types	24	30
Three or more types	16	11
	HOURS	
Total time using some form of care arrangement per week	11.2	18.4

Source: PIDACS, 2006-07.

D. NEIGHBOURHOOD CHARACTERISTICS

The quality of a neighbourhood and the local community can have positive effects on children's developmental outcomes in several ways. For example, the availability of local playgrounds and pools can directly affect children's physical development. When the neighbourhood is a safe place for children to play, it is easier for parents to be engaged with their children in positive ways. Social support plays an important role; if parents feel supported by their neighbours, friends, and family, there tends to be lower levels of family stress and fewer parents experiencing depression.⁴³

Three aspects of neighbourhood characteristics were assessed with PIDACS: neighbourhood quality, neighbourhood safety, and neighbourhood cohesion. PIDACS also included a measure of parents' social support. These measures and the results for the Division scolaire franco-manitobaine are described below and presented graphically in Figure 3-9.

Neighbourhood Quality. The PIDACS interviewer asked parents some general questions about the quality of their neighbourhood, such as whether the neighbourhood had lots of other families with children, good schools and nursery schools, adequate facilities for children such as playgrounds and pools, good health facilities, actively involved residents, and accessible public transportation. The responses were scaled on a ten-point scale, such that 5 is a neutral response. The score for the Division scolaire franco-manitobaine, 6.8, is comparable to the Canadian PIDACS average.

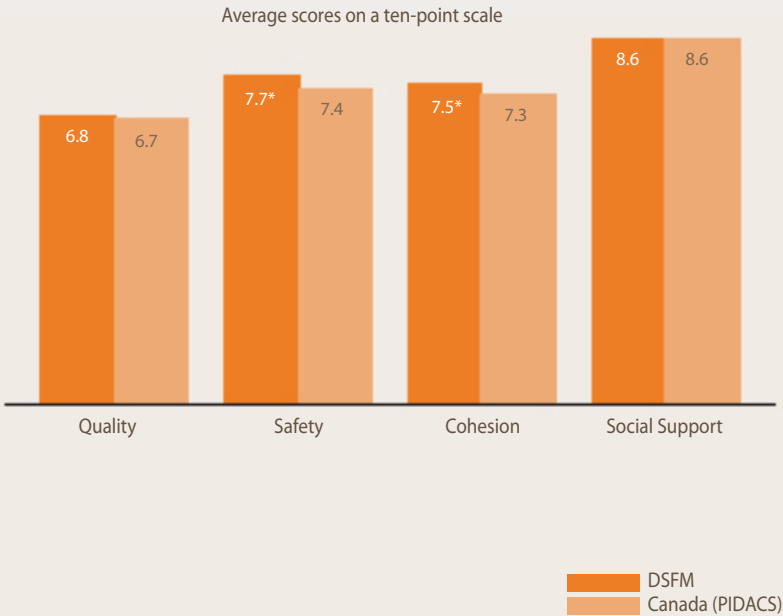
Neighbourhood Safety. The PIDACS parent interview included four questions on neighbourhood safety. Parents were asked whether it was safe to walk alone in their neighbourhood after dark; whether it was safe for children to play outside during the day; whether there were safe parks, playgrounds, and play spaces; and whether one could count on adults in the neighbourhood to watch out that children were safe. The Division scolaire franco-manitobaine's score on neighbourhood safety was 7.7, which is higher than the Canadian PIDACS average of 7.4.

⁴³ Mulvaney, C. & Kendrick, D. (2005). Depressive symptoms in mothers of pre-school children effects of deprivation, social support, stress and neighbourhood social capital. *Social Psychiatry and Psychiatric Epidemiology*, 40, 202-208.

Neighbourhood Cohesion. This PIDACS measure refers to whether neighbours are close and support each other. In communities that score high on this measure parents feel that neighbours help each other, that when there is a problem the neighbours get together to deal with it, that there are adults in the neighbourhood that children can look up to, that parents watch out to make sure children are safe, and that when the family is away from home the neighbours keep their eyes open for possible trouble. The score for the Division scolaire franco-manitobaine on this measure was 7.5, which is higher than the Canadian PIDACS average.

Social Support. This PIDACS measure assesses the level of support the parent feels from friends and family members. In communities that score high on this measure parents feel that there are family and friends that help them feel safe, secure, and happy, that there are people they can turn to for advice or talk about problems, and that there are people who share their interests and have similar attitudes and concerns. The score for the Division scolaire franco-manitobaine on this measure was 8.6, which is comparable to the Canadian PIDACS average.

FIGURE 3-9. Neighbourhood Characteristics and Social Support



Note: Statistically significant differences are indicated with an asterisk.
Source: PIDACS, 2006-07.

IV

LOOKING FORWARD

IV. LOOKING FORWARD

A. WHAT MAKES THE DIVISION SCOLAIRE FRANCO-MANITOBAINE UNIQUE?

Community-based research is important as it can help a community understand how well its youngest citizens are developing and how it might provide the best possible environment for them. In this study, children's cognitive skills, behaviour, and physical health and well-being were assessed during kindergarten using three different approaches: direct assessments of children, parent perceptions and teacher assessments.

The first approach involved direct assessments of the children's language and cognitive skills, through the *Parent Interviews and Direct Assessments of Children Survey (PIDACS)*. In slightly more than one-half of the Division scolaire franco-manitobaine (DSFM) families the parents spoke to their child in French only, while in other families the parents used French and English, or English only. Therefore, many of the children in the sample did not have a strong exposure to French at home growing up. The direct assessments for the Division scolaire franco-manitobaine were administered in French, and therefore the scores reflect children's ability to complete the assessments in French. The children in the sample scored considerably below the Canadian average on the assessment of receptive vocabulary. The scores for number knowledge and pre-literacy skills were also below the national average, but the gap was not as large.

The second approach involved the children's parents, who assessed their children's health and behaviour as part of the PIDACS parent interview. Based on parents' responses, the prevalence of children in the Division scolaire franco-manitobaine with behavioural or health problems was comparable to the Canadian average. There was a relatively low prevalence of children with asthma and chronic conditions.

The third approach involved kindergarten teachers, who provided their perceptions of how well each child in their class was faring in each of five developmental domains on the *Early Development Instrument*. On this assessment the children in this community had scores that were above the national average on physical health and well-being. The scores for three other domains – 'social competence', 'emotional maturity', and 'communication skills and general knowledge' – were comparable to the Canadian average. However, the scores on 'language and cognitive development' were below the national average. These results are consistent with the findings from the direct assessments, which stress the need for improving the early French language skills of children in this community.

One of the features of the Division scolaire franco-manitobaine that stands out as unique is that the families have relatively high incomes compared with other Canadian families. Most parents were employed, and there were very few parents who had not completed secondary school. Considering these factors together, the average level of socioeconomic status of this community is relatively high.

On most aspects of family life, the Division scolaire franco-manitobaine's profile was consistent with that of other Canadian families; for example, the prevalence of mothers experiencing signs of depression was comparable to the Canadian average, and parents' scores on measures of positive parenting practices were close to the Canadian average. Parents read to their child on a regular basis. The prevalence of families with poor family functioning was 11%. This refers to a family's ability to communicate, make decisions and solve problems as a group, discuss feelings and concerns, get along together, and feel accepted for who they are.

Children in the Division scolaire franco-manitobaine tended to be actively engaged in both organized and unorganized sports, and on average they spent considerably less time watching television or videos than other children this age. Their participation in music, art and other types of lessons and their involvement in various community groups and programs were below the Canadian average. Nevertheless, the children in the Division scolaire franco-manitobaine made good use of educational resources, especially educational or science centres. They also made good use of entertainment and recreational resources; nearly four out of every five children used parks and recreation trails and beaches or pools at least once per month.

The prominent barriers to participation were similar to those of other communities, including not finding a convenient time to participate, not having the time to participate, and the unavailability of programs for children this age. Parents also considered the unavailability of programs nearby as an important barrier to participation. Many parents in this community were working full-time, and therefore finding time to participate that met their schedules was an important barrier. However, the most noteworthy barriers to participation in the Division scolaire franco-manitobaine were that programs were not available nearby or not offered in their preferred language.

About 47% of the families in this community used some form of child care arrangement while working or studying. The most frequently used types of care were before or after-school programs or care in someone else's home by a relative. Overall, the children in the Division scolaire franco-manitobaine were in some type of care arrangement about 11 hours per week; this is considerably lower than the Canadian PIDACS average of 18.4 hours.

Parents' assessments of their local neighbourhoods were generally positive and consistent with the Canadian average. The community's scores on 'neighbourhood safety' and 'neighbourhood cohesion' were significantly above the Canadian average. Thus, parents felt that their neighbourhoods were safe places to raise their children, with good schools and nursery schools, adequate recreation and health facilities for children, and accessible public transportation. Parents felt that neighbours were close and supported each other, and that there were family members, friends and neighbours who helped them feel safe, secure, and happy. In these respects, the children of the Division scolaire franco-manitobaine are very fortunate.

B. CONCLUDING REMARKS

The UEY initiative is providing communities with valuable information about their needs and strengths. UEY is helping communities with different economic, social and physical characteristics understand how their young children are doing, what the community is doing to support those children, and family and community factors that may influence young children's development. This *Community Research Report* for the Division scolaire franco-manitobaine presents data on kindergarten children's development and on family and community experiences from the *Parent Interviews and Direct Assessments of Children Survey (PIDACS)*, as well as information collected using the *Early Development Instrument (EDI)*, providing kindergarten teachers' perceptions of the development of the children in their classes.

The local UEY project staff will work with the UEY coalition of community organizations and individuals to create an evidence-based *Community Action Plan* to address the gaps in community supports for their young children identified by the UEY research. Through the development of the *Community Action Plan*, and events and activities to disseminate the research information to parents, service providers, educators and others, the UEY staff and coalition will engage this community around the importance of the development of their young children and approaches to enhance that development.

APPENDIX A: LIST OF PARTICIPATING COMMUNITIES FUNDED IN 2005

COMMUNITY	HOST ORGANIZATION
UEY North Shore	North Shore Community Resources North Vancouver, British Columbia
UEY Sunshine Coast	Powell River Child, Youth and Family Services Society Powell River, British Columbia
UEY Campbell River	Campbell River Child Care Society Campbell River, British Columbia
UEY Greater Victoria	Community Social Planning Council of Greater Victoria Victoria, British Columbia
UEY Mission	United Way of the Fraser Valley Abbotsford, British Columbia
UEY Okanagan-Similkameen	School District No. 53 (Okanagan-Similkameen) Oliver, British Columbia
UEY Northeast Saskatchewan	Northeast Regional Intersectoral Committee Melfort, Saskatchewan
UEY Division scolaire franco-manitobaine	Division scolaire franco-manitobaine Lorette, Manitoba
UEY Ottawa	Success by 6/6 ans et gagnant Ottawa, Ontario
UEY Lower Hamilton	Wesley Urban Ministries Hamilton, Ontario
UEY Northern Region of Ontario	Superior Children's Centre Wawa, Ontario
UEY Milton	Halton Child and Youth Services Burlington, Ontario
UEY Northumberland County	Northumberland Child Development Centre Port Hope, Ontario
UEY Kawartha Lakes and Haliburton County	Ontario Early Years Centre - Haliburton Victoria Brock, Lindsay, Ontario
UEY Niagara Region	Early Childhood Community Development Centre St. Catharines, Ontario
UEY Pointe-de-l'Île	Centre 1, 2, 3 Go ! Montréal, Québec
UEY Montréal Chassidic and Orthodox Community	YALDEI Developmental Centre Montréal, Québec
UEY Greater Saint John	Family Plus/Life Solutions Inc. Saint John, New Brunswick
UEY Cumberland County	Cumberland Mental Health Services Amherst, Nova Scotia
UEY Halifax West and Area	Sackville/Bedford Early Intervention Society Lower Sackville, Nova Scotia
UEY Western Nova Scotia	Nova Scotia Community College, Kingstec Campus Kentville, Nova Scotia

