## **Understanding the Early Years:**

## Southeast Saskatchewan, Saskatchewan

**A Community Research Report** 

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#### **EXECUTIVE SUMMARY**

The Southeast Saskatchewan Understanding the Early Years (UEY) project includes kindergarten children and their families from a large geographic region defined by the Southeast Regional Intersectoral Committee (RIC). The region includes Southeast Cornerstone, Holy Family, Prairie Valley, Good Spirit, Christ the Teacher, Horizon (for George Gordon and Punnichy Elementary Schools) and St. Augustine School Divisions. Three Tribal Councils offering Education services to 23 First Nations communities are included in this study as well: Yorkton, File Hills Qu'Appelle and Touchwood Agency Tribal Councils. Health Regions contained within the boundaries are Sunrise, Regina Qu'Appelle and Sun Country Health Regions. The Southeast Saskatchewan UEY project is being hosted and managed by the Holy Family Roman Catholic School Division No. 140.

The Southeast Region features a culturally diverse, largely rural population of farms, villages, towns, First Nations communities and small cities, the largest of which is Yorkton with a population of about 18,000. The region is home to families from a variety of ethnic backgrounds, many of which still practice their cultural traditions. Agriculture and mining are the dominant industries in the region.

Understanding the Early Years is a national initiative aimed at strengthening the capacity of communities to use quality local research to help them to make decisions to enhance children's lives. This report is based on information collected with the *Parent Interviews and Direct Assessments of Children Survey (PIDACS)* in the community of Southeast Saskatchewan, as well as 2006 Canadian Census data. The PIDACS provides information on developmental outcomes of children and their families and neighbourhood environments and experiences.

The data in this report, which were collected from parents and their kindergarten children using the PIDACS, are a snapshot from late 2008 to early 2009 of the lives of kindergarten children whose parents agreed to participate in the survey. The 537 parents who were interviewed and 629 children who completed the direct assessments provide information on how kindergarten children in Southeast Saskatchewan are doing. Other local information available through the UEY project includes the results of kindergarten teacher assessments of children's development using the *Early Development Instrument*, information on the availability and accessibility of programs and services, and data from the Canadian Census describing local socio-economic characteristics. Taken together, these data can be used to start conversations in the community about the implications of the research and the needs of children in Southeast Saskatchewan. This process can help communities develop a community action plan aimed at addressing the needs of the community.

The 2006 Canadian Census data indicate the total population of the region was about 152,000, with 10,205 children aged 0 to 5 years. The average family income of the community was about \$69,000, which was well below the national average of \$82,000. The median family income was about \$57,000, which was also considerably below the national median of about \$66,000. About 20% of the families had incomes below \$30,000. However, the unemployment rate was relatively low compared with the provincial and national rates.

About 10% of mothers surveyed were experiencing depression, and 11% of families reported poor family functioning. These proportions were comparable to the Canadian

PIDACS averages. However, only 52% of parents considered their neighbourhoods to be of high quality, which was considerably lower than the Canadian average of 77%. In addition, the prevalence of parents displaying positive parenting practices was below the Canadian average, as was the proportion of parents reading daily to their child. An important concern is that the kindergarten children in this community watched television or videos on average about 2.0 hours per day, which is well above the Canadian average of 1.6 hours per day. This finding is coupled with a relatively low use of libraries and bookmobiles. However, children tended to be actively engaged in both organized and unorganized sports, with an average rate of 1.6 times per week for organized sports and 4.8 times per week for unorganized sports.

Children's use of many types of entertainment, cultural and recreational resources was lower than the Canadian PIDACS averages; the exceptions were attending sports events and the use of ice rinks and skiing facilities. The most prominent barriers to participation in children's programs were that programs were not available at convenient times (47%), programs were not available nearby (45%), programs were only available to older children (45%), there was not enough time (36%), and parents being unaware the resource was available (45%). A noteworthy result is that program costs were less of an issue for this community than was the case in the general Canadian PIDACS population.

About 59% of the families in this community used some form of child-care arrangement while working or studying. The most frequently used type of care was care in someone else's home by a non-relative.

This study shows that most kindergarten children in Southeast Saskatchewan were generally faring well. The prevalence of children with behavioural problems in Southeast Saskatchewan was comparable to the Canadian PIDACS average, as was the prevalence of children with significant health problems based on assessments of general health, asthma, allergies and other chronic conditions. The main concern is that there was a high prevalence of children with low scores on the cognitive measures. The average scores on assessments of receptive vocabulary, number knowledge, and pre-literacy skills were all below the corresponding Canadian averages.

As the community works towards developing its action plan, it can consider the strengths and weaknesses uncovered by this local research. 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.

# I INTRODUCTION

#### I. INTRODUCTION

### A. SOUTHEAST SASKATCHEWAN - MILIEU FOR YOUNG CHILDREN'S DEVELOPMENT

Research based on the earlier Understanding the Early Years (UEY) studies and the National Longitudinal Survey of Children and Youth has shown that the social and economic context of the community and the socio-economic demographics of the population are helpful in understanding the factors that may contribute to children's developmental outcomes.

The Southeast Saskatchewan UEY community encompasses the boundaries of the Southeast Regional Intersectoral Committee (RIC), one of the many defining boundaries in the province. The Region includes Southeast Cornerstone, Holy Family, Prairie Valley, Good Spirit, Christ the Teacher, Horizon (for George Gordon and Punnichy Elementary Schools) and St. Augustine School Divisions. Three Tribal Councils offering Education services to 23 First Nations communities are included in this study as well: Yorkton, File Hills Qu'Appelle and Touchwood Agency Tribal Councils. Health Regions contained within the boundaries are Sunrise, Regina Qu'Appelle and Sun Country Health Regions.

The Southeast Region features a culturally diverse, largely rural population of farms, villages, towns, First Nations communities and small cities, the largest of which is Yorkton with a population of about 18,000. The region is home to families from a variety of ethnic backgrounds, many of which still practice their cultural traditions. The mainstay industry in Southeast Saskatchewan has been the agricultural industry with large expansive grain farms across the very flat open plains which extend over thousands of acres south and east of Regina. Farms north of the No. 1 highway have a more rolling landscape and tend to be smaller and more diversified, offering stability to an industry that can be affected by harsh weather conditions.

Southeast Saskatchewan is also rich in natural resources, which has resulted in massive coal strip-mining operations in the Estevan and Bienfait areas as well as a booming oil industry across the entire Southeast of the province. Further north in the region, the potash mines near Esterhazy produce more potash than any other mines in the world. Kenossee Lake, the Qu'Appelle Valley, Regina Beach area and Good Spirit Lake region provide restful retreats for vacationers and support the tourism industry. The natural environment throughout the region provides an ideal destination for hunters and fishermen attracting even more tourism to the area.

When the 2006 Canadian Census was taken, the population of Southeast Saskatchewan was approximately 152,000 (see Table 1-1). There were about 37,500 children and youth aged 0 to 18, and of these about 10,200 were children aged 0 to 5. Southeast Saskatchewan had relatively low levels of family income compared with the rest of Canada; the average family income was about \$69,000 and the median family income was about \$57,000. However, the unemployment rate was relatively low: 4.4% compared with the Canadian rate of 6.6%. The level of post-secondary education of adults was considerably lower than the national average.

TABLE 1-1. 2006 Census Profile for Southeast Saskatchewan compared with Saskatchewan and Canada

	Southeast Saskat- chewan	Saskat- chewan	Canada	
Total population	152,155	953,845	31,241,030	
Number of children ages 0-18	37,565	239,085	7,154,210	
Number of children ages 0-5	10,205	67,385	2,013,065	
Average family income (economic families)	\$69,101	\$71,339	\$82,325	
Median family income (economic families)	\$57,204	\$59,998	\$66,343	
Economic families with income below \$30,000 (%)	20.2	18.7	15.1	
Education - Population 15 years and older with:				
No certificate, diploma or degree (%)	34.8	30.2	23.8	
High school or equivalent (%)	27.1	26.8	25.5	
Post secondary education (%)	38.1	42.9	50.7	
Unemployment Rate (% adults 15 years and over)	4.4	5.6	6.6	
Moved residence within previous year (%)	10.4	14.3	14.1	
Aboriginal population (%)	11.2	14.9	3.8	
Immigrated 2001-2006 (%)	0.5	0.8	3.6	

**Source:** Statistics Canada custom tabulations from the 2006 Census

**Note.** The term "economic family" refers to a group of two or more persons who live in the same dwelling and are related by blood, marriage, common law or adoption. The term "post-secondary education" refers to any education following high school completion, such as education in vocational colleges, community colleges and universities.

The 2006 Canadian Census data also show that 11.2% of the families in Southeast Saskatchewan are Aboriginal. Less than 1% of the families of Southeast Saskatchewan had immigrated to Canada during the five years preceding the 2006 Canadian Census.

Southeast Saskatchewan is not without its cultural and recreational opportunities. For example, the Yorkton Short Film and Video Festival has been held annually since 1947, and Estevan's Souris Valley Theatre, a six week summer theatre, attracts visitors from across

North America. Many rural communities also host their own dinner theatres featuring local actors and the fine fare of delicious prairie foods. Many small communities have strong arts councils which work hard to promote local artists and provide opportunities for cultural events. Sports are also a very important part of life in rural Saskatchewan. The local arena is typically the focal point of most small towns. Families spend a great part of the long winters attending hockey games and travelling with their children to the many tournaments held throughout the region.

The service providers in the Southeast Saskatchewan UEY region have worked diligently over the years to provide effective services to the largely rural and sparsely populated region. Health offices are located throughout the region in order to create greater accessibility to residents. Travelling Health Clinics are scheduled on a regular basis in many of the smaller villages as well. Speech and language pathologists and early childhood psychologists travel to centrally located communities to improve accessibility to clients. The Southeast Saskatchewan UEY initiative has four Early Childhood Intervention Programs which provide in-home services. Three early learning and child care consultants travel to communities throughout the region supporting and developing child care services.

An effective infrastructure for support and development of programs and services has been established throughout the region under the auspices of the Regional Intersectoral Committee (RIC). The RIC Coordinator meets throughout the region with the many service and program providers and offers direction to the KidsFirst Regional Community Developers who work within the three Health regions. The Coordinator also chairs the Southeast Early Childhood Development Committee. A sub-committee of the RIC brings service providers, program directors, and community champions including First Nations representatives, together from the entire region. They offer support and direction to KidsFirst Community Developers who work with communities to provide resources and identify gaps in services.

First Nations Communities in the region receive support from the three Tribal Councils. There are four Independent First Nations Bands in the study. While self sustained and governed, they receive some support and assistance from the Tribal Councils. Each First Nations Community has a health office or clinic. Health programs and services are funded through Health Canada's First Nations and Inuit Health Branch. Public Health services are supervised through the Fort Qu'Appelle office. Some Bands hire their own public health nurses while others receive their services directly from the local office. First Nations Health, Social Development and Education, work together to provide a variety of programs and services to their communities, including child care centres, Head Start programs, nursery (Pre-Kindergarten) programs, maternal child health and parent mentors, health education, nutritional education, foetal alcohol spectrum disorder programs along with many other support programs. Fort Qu'Appelle is the location of the All Nations' Healing Hospital which includes a Women's Health Centre along with prenatal counselling and midwife services.

#### **B. WHAT THIS STUDY IS ABOUT**

#### Background: Understanding the Early Years 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 of life can have a major impact on the rest of their lives. The evidence also suggests that neighbourhoods and communities in which children grow up and learn influence their development; these neighbourhoods 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.

Among neighbourhoods, communities and regions across Canada, policies and programs to enhance children's early development differ in important ways. 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 on children and the places in which 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 Skills 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; and by
- Strengthening their ability to use local data to help them to 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 to learn to generate and use local information on:

- the development of kindergarten (the year before Grade 1) children;
- family and community factors that influence children's development;
- local programs and services for young children and their families; and
- local socio-economic characteristics.

This information enables local UEY project staff, the UEY community coalition of organizations and individuals, and other community members to develop approaches to enhance the development of young children by building on the community's strengths and by addressing weaknesses in programs and services. Moreover, the information fosters partnerships among community groups and individuals, enabling them to make informed decisions on 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 communities include children from diverse cultural, linguistic and economic backgrounds.

UEY was launched in 1999 as a research initiative to enhance knowledge of community factors that influence the early development of children. It began with a pilot initiative in North York, Ontario and included 12 community projects by 2002. In 2004, UEY became a national initiative. A further 21 community projects began their three years of UEY activities in 2005, another 15 projects began in 2007, and one First Nations project began in 2008. This report, *Understanding the Early Years: Southeast Saskatchewan, Saskatchewan,* presents results for one of the 15 community projects that started UEY in 2007. Please see Appendix A for a list of all the UEY communities.

Figure 1-1 illustrates key components of the UEY Initiative and how it works in participating communities.

FIGURE 1-1. Key Components of the UEY Design

**Enabling Communities** Transferring knowledge Strengthening ability to make evidence-based decisions Working together to act on research **Generating Information Building Knowledge** Kindergarten children's development and Community Research Report, including: experiences, including: - Children's development - Parent Interviews and Direct Assessments - Community and family influences of Children Survey (PIDACS) Community Mapping Report, including: - Early Development Instrument (EDI) - Community programs and services - Inventory of Community Programs and - Socio-economic characteristics Services - Development of kindergarten children - Local socio-economic characteristics (2006 Canadian Census) Community Action Plan

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#### C. HOW THE STUDY WAS CONDUCTED

This report for Southeast Saskatchewan is a key piece of the local research made available to the community through the UEY Initiative. It highlights findings from the information collected from parents and children using the *Parent Interviews and Direct Assessments of Children Survey*, and presents them 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 kindergarten children's cognitive abilities, parents' perspectives on family circumstances and children's experiences, local information on programs and services, and local socio-economic characteristics. Table 1-2 indicates the types of data and their sources for UEY Southeast Saskatchewan.

TABLE 1-2. 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 Parent Interviews and Direct Assessments of Children Survey	R.A. Malatest & Associates Ltd., under contract to Human Resources and Skills Development Canada						
Children's abilities	Three direct assessments of children's cognitive abilities using the Parent Interviews and Direct Assessments of Children Survey	R.A. Malatest & Associates Ltd., under contract to Human Resources and Skills Development Canada						
Teachers' perspectives	Teacher-completed checklist, the Early Development Instrument	The Offord Centre for Child Studies at McMaster University, Hamilton, Ontario, under contract to UEY Southeast Saskatchewan						
Family circumstances and children's experiences at home and in the community	Interview with parents using the Parent Interviews Direct Assessments of Children Survey	R.A. Malatest & Associates Ltd., under contract to Human Resources and Skills Development Canada						
Information on community programs and services	Inventory of Community Programs and Services	UEY Southeast Saskatchewan						
Local socio-economic characteristics	2001 and 2006 Canadian Censuses (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* collected during the 2008-09 school year. The social and community contexts of the Southeast Saskatchewan community, presented in the

Introduction, were provided by the local UEY project staff and developed from 2006 Canadian Census data.

#### Parent Interviews and Direct Assessments of Children Survey

The Parent Interviews and Direct Assessments of Children Survey (PIDACS) uses instruments designed for and adapted to five-year-olds in the National Longitudinal Survey of Children and Youth. It has two complementary components: the PIDACS parent interviews and direct assessments of children's cognitive development. Together, they provide information on children's developmental outcomes in three domains: learning, social skills and behaviour, and physical health and well-being. Additional information is also collected on 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) of the child, which is usually the mother or female guardian. In less than 10 per cent of the families surveyed, the PMK is the father or male guardian. The interview is conducted on the telephone or on the Internet; in-person interviews are conducted when the other options are not feasible. Parents are interviewed in the language of their choice when 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 on 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.

The PIDACS target population in each UEY community was children who entered kindergarten in autumn 2008. In most UEY communities, all the eligible children and their parents were invited to participate; in communities with more than 600 kindergarten children, including Southeast Saskatchewan, a sample was drawn with the intention of representing the kindergarten population. The data collection occurred from late autumn 2008 to spring 2009. Thus, the vast majority of the children was five or six years old at the time of the data collection. In Southeast Saskatchewan, 537 parents or guardians were interviewed, and 629 children were administered the PIDACS direct assessments. The average age of this sample of children in Southeast Saskatchewan was 5 years, 8 months.

<sup>&</sup>lt;sup>1</sup> The National Longitudinal Survey of Children and Youth 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 Skills Development Canada.

The PIDACS sample size for Southeast Saskatchewan 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, on the measure of receptive vocabulary, the average score in Southeast Saskatchewan was 96.0. The standard error of this estimate, which provides an indication of how accurately the estimate was measured, is 0.5. If one 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 95.0 and 97.0, about 19 times out of 20. All comparisons were tested for statistical significance at this level of significance (p < 0.05).

Generally when an estimate of a *statistic*, such as the difference between the mean for the community and the national average, is statistically significant it is not necessarily of substantive importance. This is often the case when sample sizes are large. Therefore, the reader is urged to consider the results for estimates that are statistically significant in substantive terms; for example, ask whether the difference in the percentage of children is important relative to the community's goals. Conversely, when sample sizes are small, an estimate may not be statistically significant, even though the results appear to be substantively important. This occurs, for example, in some of the cross-tabulations in this report when the cell size for a sub-population, such as unemployed fathers, is small. In that case, the difference in kindergarten children's outcomes between employed and unemployed fathers may appear large but is not statistically significant. In this case one cannot claim that the difference is important, as it may be simply attributable to sampling error.

The accuracy of the PIDACS data can be strengthened by weighting the data to make them representative of the entire population of kindergarten children in Southeast Saskatchewan. Not all families participated in the study, and it is possible that the families that agreed to participate differ in systematic ways from those that did not participate. Therefore a sample design weight was constructed to compensate for potential biases that might have resulted from non-response. For example, if only 8% of low-income families participated, a sample weight would make the data reflect the 10.8% actual incidence of low-income in a community. This was achieved by comparing the distribution of a measure of socioeconomic status (SES) (derived from family income, years of education, and types of occupations) for the completed interviews and direct assessments for Southeast Saskatchewan with the distribution of SES of the target population based on 2006 Canadian Census data. The design weights remove bias associated with SES by weighting the responses of families differentially, such that the weighted sample has the same SES distribution as the 2006 Canadian Census.

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.<sup>2</sup>

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 of 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 National Longitudinal Survey of Children and Youth, to ensure that they are valid measures with high reliability.

The interpretation of each community's PIDACS results is strengthened by comparing the results to the Canadian average. The Canadian average for each indicator was estimated with PIDACS data collected in the first 21 UEY communities in 2006-07 (a total sample of 8,834 children). The socio-economic composition of the full set of these 21 UEY communities (based on family income, years of education and types of occupations) is very similar to that of the Canadian population of families with young children, based on 2006 Canadian Census data. However, to strengthen the comparisons, a design weight was constructed to increase the accuracy of the PIDACS UEY-21 estimates as national norms.

In statistical analysis of survey data, weighting is often applied to make the sample more like the population under study. The weighting process to make the UEY-21 data representative of the Canadian population was achieved by linking the UEY-21 data to the 2006 Canadian Census data using geographic information, derived from the postal codes, that exists on both sets of data. The weights were constructed such that the weighted UEY-21 data have the same distribution of socio-economic characteristics as the full population of Canadian children. These design weights were then used in estimating the national averages of each PIDACS indicator. These approximated national averages are used for comparative purposes in this report, referred to as 'Canadian PIDACS average' or denoted as 'Canada (PIDACS)' in the tables and graphs.

The use of PIDACS to provide information to communities 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 for each community. The results can be easily interpreted, and used in conjunction with the Community Mapping Report to develop the Community Action Plan.

<sup>&</sup>lt;sup>2</sup> 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, New Jersey: 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.

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 will be provided in an integrated report that uses data from communities funded in 2005 and 2007.

Finally, UEY is a descriptive study designed to provide a rich description of the family and community factors that 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 National Longitudinal Survey of Children and Youth and Ontario's Better Beginnings Better Futures Program,<sup>3</sup> and studies that involve the random assignment of communities to treatment and control groups.

The PIDACS data collection was conducted by an independent contractor, R. A. Malatest & Associates Ltd., hired by Human Resources and Skills 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 R.A. Malatest & Associates Ltd. to KSI Research International Inc., which was responsible for analysing the data and writing community-specific research reports for each of the UEY communities. This report is one of these.

Another key piece of information for this community was collected from kindergarten teachers, who provided their perceptions of children's development using the *Early Development Instrument (EDI)*. Teachers completed the checklist between February and March 2009. The EDI provides information at a group level for five domains of children's development: physical health and well-being; social competence; emotional health and 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 in Hamilton, Ontario.

The Southeast Saskatchewan UEY project contracted with the Offord Centre for Child Studies at McMaster University for their EDI data collection. The collection was carried out in collaboration with participating schools, school boards, and local UEY staff. Each UEY project will use the EDI results in their locally-produced mapping report and action plan; however, the EDI results are not included in this report.

<sup>&</sup>lt;sup>3</sup> 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.

#### D. PORTRAIT OF THE KINDERGARTEN CHILDREN'S FAMILIES

PIDACS includes a number of measures of the family backgrounds of the children in the study. Factors which have been found to be relevant to many children's outcomes in other studies include family income, the level of education of the parents, the employment status of the parents, and family structure. In addition, the survey also includes variables indicating immigrant status and Aboriginal background. These factors are discussed below, comparing the Southeast Saskatchewan results for family income, parents' employment, parents' level of education, and family structure to the Canada averages derived from the UEY-21 PIDACS data. Other demographic characteristics are compared to the national average derived from the 2006 Canadian Census.

#### Family Income

National research based on the National Longitudinal Survey of Children and Youth indicates that family income has an influence on children's developmental outcomes. The results for receptive vocabulary among 4- and 5-year-olds suggest that the relationship is curvilinear, with scores increasing steadily for families with annual incomes between \$10,000 and \$30,000; however, for annual incomes above \$30,000, the relationship is relatively weak.<sup>4</sup> Results from the 2006 Canadian Census indicate that 15.1% of Canadian children were living in families with annual incomes below \$30,000 (see Table 1-1). Several US 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.<sup>5</sup> The results suggest that the risk associated with living in a low-income family increases with the length of time a family is in poverty, and that generally the effect during the early years is more detrimental to children than during their primary or secondary school years.<sup>6</sup>

The median family income of the families in the Southeast Saskatchewan PIDACS sample was \$70,000, which is slightly below the Canadian PIDACS median of \$73,800. (The average income for the PIDACS is not reported, as the sample means can be strongly influenced by outliers.) About 18% of the children surveyed were living in families with annual incomes below \$30,000. The Canadian PIDACS average was 16%.

Family income is not the sole determinant of children's developmental outcomes, but children living in poor economic circumstances often face challenges in the behavioural and learning domains when they begin school.

<sup>&</sup>lt;sup>4</sup> 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, Alberta: The University of Alberta Press.

<sup>&</sup>lt;sup>5</sup> Duncan, G. J., Brooks-Gunn, J., & Klebanov, P. K. (1994). Economic deprivation and early child development. *Child Development*, *65*, 296-318.

<sup>&</sup>lt;sup>6</sup> 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.

#### Parents' Employment

National findings from the National Longitudinal Survey of Children and Youth showed that children's behavioural and health outcomes are unrelated to parental employment, after controlling for other family demographic factors, such as income and parental education. However, children's level of receptive vocabulary is related to mothers' employment; children whose mothers were unemployed were more likely to have low receptive vocabulary scores. For mothers, there appears to be a trade-off: mothers who are not employed have more time to be engaged with their child, but they are also more likely to experience depression. Later in this report, results describing levels of parental engagement and maternal depression are presented.

In Southeast Saskatchewan, 32% of the mothers surveyed were not employed. This was comparable to the Canadian PIDACS percentage of mothers of kindergarten children (33%). Respondents also reported that 7% of the fathers of kindergarten children in Southeast Saskatchewan were not employed, which was also comparable to the Canadian PIDACS percentage (6%).

The implications of these findings can only be considered in the greater socio-economic context, the effects of which play out differently for every family.

#### Parents' Level of Education

Several studies have found a significant relationship between levels of parents' education and a wide range of developmental outcomes. During the early years of a child's life, the level of the mother's education plays a more prominent role in children's language development than does that of the father, but the effects of the father's education become important for school achievement after the child starts school. Description of the father's education become

About 6% of the mothers and 13% of the fathers surveyed reported that they had not completed secondary school. The Canadian PIDACS average for the mothers of kindergarten children not completing secondary school was 5%; for fathers it was 7%.

<sup>&</sup>lt;sup>7</sup> Brownell, M. & Willms, J. D. (2008). Early predictors of childhood outcomes at school entry. A paper in the HRSDC series, *Successful Transitions*. Ottawa: HRSDC.

<sup>&</sup>lt;sup>8</sup> 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, Alberta: The University of Alberta Press.

<sup>&</sup>lt;sup>9</sup> Bradley, R. H. & Corwyn, R. F. (2002). Socioeconomic status and child development. *Annual Review of Psychology*, 53, 371-399.

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, Alberta: The University of Alberta Press.

#### Family Structure

According to results from parents' reports in PIDACS, about 15% of Canadian families with young children are headed by a single parent, usually the mother. Approximately 11% of the children in Southeast Saskatchewan sample were living in single-parent families.

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. One of the problems often experienced by single parents, for example, is a lack of resources and transportation for their children to participate in sports and recreational programs.

About 7% of the children in the Southeast Saskatchewan sample did not have any brothers or sisters, while 45% had one sibling, and 48% had at least two siblings. The average number of siblings in the Southeast Saskatchewan sample was 1.6; the Canadian PIDACS average was 1.3 siblings.

#### Other Demographic Characteristics

About 16% of the children in the PIDACS sample for Southeast Saskatchewan were of Aboriginal background. About 3.8% of Canadians were of Aboriginal background based on the 2006 Canadian Census.

About 1% of the children in the Southeast Saskatchewan PIDACS sample were immigrants, or born outside Canada. Results from the 2006 Canadian Census also indicate that less than 1% of the families in this community were recent immigrants who had immigrated between 2001 and 2006, while the national rate was 3.6%. Since the number of immigrant children in the sample was quite small, this factor is not considered further in this report.

In about 98% of the families in the Southeast Saskatchewan PIDACS sample, English was the language that the mother and father learned at home during childhood. In another 2% of the families, French was the childhood language of at least one parent.

Strohschein, L., Tramonte, L. & Willms, J. D. (2009). The effects of divorce and separation on children's developmental outcomes. Research monograph in the Successful Transitions series. Ottawa: Human Resources and Skills Development Canada.

## П

# HOW ARE CHILDREN DOING IN SOUTHEAST SASKATCHEWAN?

### II. HOW ARE CHILDREN DOING IN SOUTHEAST SASKATCHEWAN?

#### A. DEVELOPMENTAL OUTCOMES IN EARLY CHILDHOOD

The research on child development has provided guidance on the developmental outcomes that 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. 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.

Most young Canadian children are healthy, exhibiting low rates of infant and childhood mortality and morbidity. 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 and has recently been recognized as a major health problem in Canada for children during the pre-school years.

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 skills, but substantially poor development can indicate that a child may require medical attention or other special services.<sup>17</sup>

<sup>&</sup>lt;sup>12</sup> Willms, J. D. & Beswick, J. F. (2005). *Early Years Evaluation - Teacher Assessment: Revised*. Fredericton, New Brunswick: 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: <a href="http://www.gettingready.org/matriarch/MultiPiecePage.asp">http://www.gettingready.org/matriarch/MultiPiecePage.asp</a> Q PageID E 318 A PageName E NationalSchoolReadinessIndicat.

<sup>&</sup>lt;sup>13</sup> UNICEF (2002). *UNICEF's priorities for children, 2002-2005*. New York: UNICEF.

<sup>&</sup>lt;sup>14</sup> Canadian Institute of Child Health (2000). *The Health of Canada's Children: A CICH profile*. Ottawa: Canadian Institute of Child Health.

<sup>&</sup>lt;sup>15</sup> Tremblay, M., & Willms, J. D. (2000). Secular trends in body mass index of Canadian children. *Canadian Medical Association Journal*, *163*(11), 1429-1433.

<sup>&</sup>lt;sup>16</sup> 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.

<sup>&</sup>lt;sup>17</sup> Shelov, S. P. (ed.) (2004). *Caring for Your Baby and Young Child: Birth to Age 5*. Elk Grove Village, IL: American Academy of Pediatrics.

The domain of outcomes that measure 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, and when children enter school, hyperactivity and inattention emerge as important behavioural problems. The term 'approaches to learning' pertains to children's engagement in learning, and comprises such factors as enthusiasm, curiosity, and persistence in completing tasks.

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. <sup>19</sup> 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. <sup>20</sup> It is also related to children's exposure to language in the home and to the nature of their interactions with their parents. <sup>21</sup>

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.<sup>22</sup> This, in the longer term, has important implications for their progress at school.

The PIDACS includes a broad range of outcome measures. These include three direct assessments of children's language, cognitive development and pre-literacy skills, as well as parents' assessments of pro-social behaviour, behavioural problems, and several aspects of physical health. The measures used in PIDACS are described below in three sections, one each for the cognitive, behavioural and health domains. Each section also provides the results for Southeast Saskatchewan on each assessment.

<sup>&</sup>lt;sup>18</sup> Tremblay, R. E., Nagin, D. S., Séguin, J. R., Zoccolillo, M., Zelazo, P. D., Boivin, M., Pérusse, D., & Japel, C. (2004). Physical Aggression During Early Childhood: Trajectories and Predictors. *Pediatrics*, *114*, 1, 43-50.

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.

<sup>&</sup>lt;sup>19</sup> Scarr, S., & Weinberg, R. A. (1978). The influence of "family background" on intellectual attainment. *American Sociological Review*, *43*, 674-692.

<sup>&</sup>lt;sup>20</sup> 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.

<sup>&</sup>lt;sup>21</sup> Hart, B., & Risley, T. R. (1995). *Meaningful differences in the everyday experience of young American children*. Baltimore: P. H. Brookes.

<sup>&</sup>lt;sup>22</sup> 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. DEVELOPMENTAL SKILLS**

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

Receptive Vocabulary. Children's language development was assessed with the Peabody Picture Vocabulary Test, Revised – PPVT-R, which assesses the vocabulary that 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 PPVT-R 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 in Fredericton, New Brunswick. 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 gauged children's intuitive knowledge of numbers by assessing their understanding of quantity (more versus less), their ability to count objects, their understanding of number sequence, and their ability to do simple arithmetic. The assessment was developed by Dr. Robbie Case and his colleagues at the Ontario Institute for Studies in Education at the University of Toronto. It 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?*, which was developed by Dr. Molly de Lemos and her colleagues at the Australian Council for Educational Research. It is an assessment that involves various copying and writing tasks; for example, it assesses children's ability to conceptualize and to reconstruct geometrical shapes 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.

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 primary grades. The choice of a cut-off score to define this vulnerability is rather arbitrary. For the Peabody Picture Vocabulary Test, a score of 85 is often set as the low-score threshold. Children with scores below 85 on the PPVT are at risk of experiencing difficulties learning to read,<sup>23</sup> and in Canada about 20% of children are then at risk of not making the critical transition from learning-to-read to reading-to-learn around Grade 3 or 4. In this study the low-score threshold was set at 85, which is about one standard deviation below the mean, for all three PIDACS direct assessment measures.

<sup>&</sup>lt;sup>23</sup> 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.

TABLE 2-1. Mean scores on the direct assessments of kindergarten children

	South Saskatcl		Canadian Average (PIDACS)			
	Mean	S.D.	Mean	S.D.		
Receptive Vocabulary	96.0	13.6	100.0	15.0		
Number Knowledge	97.7	15.4	100.0	15.0		
Pre-Literacy Skills	95.8	15.2	100.0	15.0		

**Note:** Figures in bold text differ significantly from the Canadian PIDACS average.

Source: PIDACS, 2006-07 (Canada) and 2008-09 (Southeast Saskatchewan).

Table 2-1 depicts the average scores on the direct assessments for the participating children. The children of Southeast Saskatchewan had an average score of 96.0 on the assessment of receptive vocabulary. This was below the Canadian PIDACS average. (See discussion regarding the Canadian PIDACS average on page I-9). The average score on the assessment of number knowledge was 97.7, and on the assessment of pre-literacy skills, the children of Southeast Saskatchewan had an average score of 95.8. The average scores for these two measures were also below the corresponding Canadian PIDACS averages.

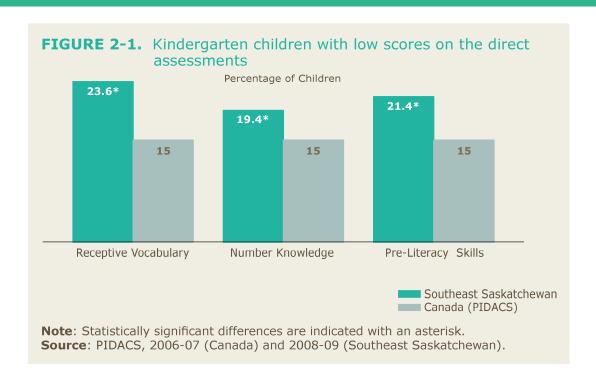


Figure 2-1 shows the percentage of children in Southeast Saskatchewan with scores below 85 on the three direct assessments. About 24% of the children in this community had low scores on the assessment of receptive vocabulary. This prevalence of vulnerability was considerably higher than that seen in the Canadian PIDACS population. Similarly, about 19% of the children in Southeast Saskatchewan had low scores on the assessment of number knowledge, which was also a considerably higher percentage than in the Canadian PIDACS population, and on the assessment of pre-literacy skills, about 21% scored below 85, which was also higher than the percentage in the Canadian PIDACS population.

#### C. BEHAVIOURAL OUTCOMES

#### PIDACS Assessments of Behavioural Outcomes Based on Parent Interviews

In PIDACS interviews, parents provided their perceptions on how their kindergarten child behaves at home and in the community. These yielded information on children's developmental outcomes that included 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 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. A child is considered to have a behavioural problem if he or she has a score that is *greater than* 1.0 on the relevant measure. On the measure of positive social behaviour, a child is considered to have 'low positive social behaviour' if he or she has a score that is *less than* or equal to 1.0.

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.

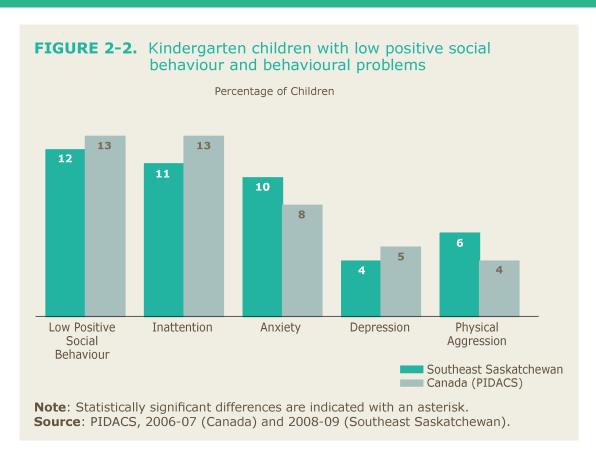


Figure 2-2 shows the proportion of children with low scores on the measures of positive social behaviour, and data for the four types of behavioural problems, based on the reports of parents in the PIDACS interview. In Southeast Saskatchewan, about 12% of the children displayed low positive social behaviour; this was comparable to the Canadian PIDACS average of 13%. About 11% of the children in the community had problems with inattention, 10% displayed high levels of anxiety, 4% displayed depressive symptoms, and 6% were physically aggressive. As with the results for the measure of social behaviour, these findings were not significantly different from the corresponding Canadian PIDACS averages.

#### **D. HEALTH OUTCOMES**

#### PIDACS Assessments of Health Outcomes Based on Parent Interviews

During the PIDACS interview the parent provided information on the general health of his or her child, and indicated whether the child had any physical, mental or health problems that limited his or her child's 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 chronic conditions other than asthma or allergies, such as heart problems, epilepsy, cerebral palsy, or a kidney condition.

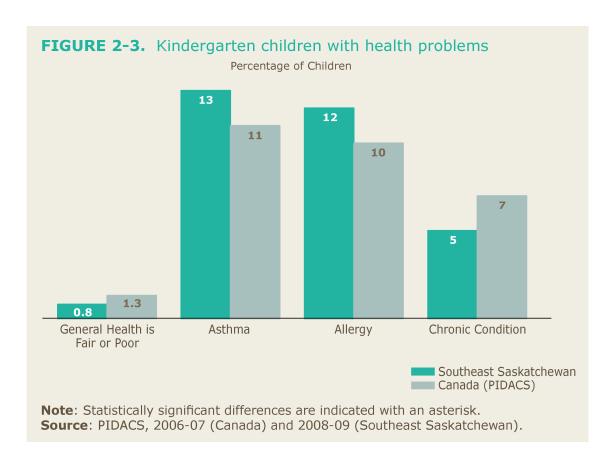


Figure 2-3 shows that in Southeast Saskatchewan, less than 1.0% of the children were considered to be in fair or poor health by their parents. The proportions of children with asthma, allergies, and other chronic health problems were 13%, 12% and 5%, respectively. The prevalence of poor general health, asthma, allergies, and chronic conditions for children in Southeast Saskatchewan did not differ significantly from the corresponding Canadian PIDACS averages.

#### **E. INEQUALITIES IN OUTCOMES**

Table 2-2 provides information on inequalities in outcomes between boys and girls and between sub-populations defined by the demographic factors described in the Introduction. For each group, it displays the prevalence of children with low scores on the three direct assessments of cognitive skills; with low scores on the measure of positive social behaviour; with the four types of behavioural problems; and with poor health outcomes. Differences between the sexes or sub-populations that are statistically significant (p < 0.05) are indicated with bold text. When cell size for a cross-tabulation is less than 10, the estimate is not shown.

The most prominent inequalities in young children's outcomes in Southeast Saskatchewan pertained to the cognitive measures. A higher percentage of boys than girls had low scores on the assessment pre-literacy skills. Children from low-income families, single-parent families, and families in which either the mother or the father had not completed secondary school were more likely to have low scores on the cognitive measures, although not all observed differences were statistically significant. These factors played a similar role for inattention. Aboriginal children were also more likely to have low scores on the cognitive measures and were more prone to displaying problems with attention than their non-Aboriginal counterparts. A striking difference between Aboriginal and non-Aboriginal children is in parent-reported health status; nearly 4% of the Aboriginal parents in this community indicated that their child was in poor health.

TABLE 2-2. Differences among Southeast Saskatchewan subpopulations in kindergarten children's developmental outcomes (% children)

	Cognitive				Behavioural				Health			
	Low Receptive Vocabulary	Low Number Knowledge	Low Pre-literacy Skills	Low Positive Social Behaviour	Inattention	Anxiety	Depression	Physical Aggression	Poor General Health	Asthma	Allergies	Chronic Condition
All Children	24	19	21	12	11	10	4	6	0.8	13	12	5
Child's Sex												
Girls	21	16	10	10	8	9	5	4	0.6	12	13	4
Boys	26	22	31	14	13	11	4	7	0.9	15	11	7
Family Income												
Below \$30,000/year	29	31	28	20	19	10	4	10	0.0	11	14	11
At or above \$30,000/year	14	12	18	12	9	11	3	4	0.8	14	12	5
Mothers' Employment												
Not employed	21	21	21	13	11	11	6	7	0.0	11	11	3
Employed	17	12	19	12	10	9	4	5	0.8	14	12	6
Fathers' Employment												
Not employed	27	32	32	17	12	6	6	10	0.0	7	12	8
Employed	17	13	18	12	9	10	4	5	0.8	13	12	4
Mothers' Education												
Did not complete secondary	39	34	23	22	25	10	6	8	0.0	13	17	12
Completed secondary	17	14	20	12	10	10	4	5	0.9	13	12	5
Fathers' Education												
Did not complete secondary	41	23	31	18	20	3	5	7	2.7	14	13	8
Completed secondary	14	13	18	11	8	11	4	5	0.4	13	12	4
Family Structure												
Single-parent family	22	28	30	8	14	7	7	10	1.6	19	13	10
Two-parent family	17	14	18	12	10	10	4	5	0.7	13	12	5
Aboriginal Status												
Non-Aboriginal	12	12	18	11	8	9	5	5	0.2	13	12	5
Aboriginal	50	37	32	15	21	13	3	9	3.9	15	13	6

**Note:** Differences that are statistically significant (p < 0.05) are in bold text.

Source: PIDACS, 2008-09 (Southeast Saskatchewan).

## III

# FAMILY AND COMMUNITY SUPPORT FOR EARLY CHILDHOOD DEVELOPMENT

## III. FAMILY AND COMMUNITY SUPPORT FOR EARLY CHILDHOOD DEVELOPMENT

#### A. FAMILY LIFE

Earlier research based on the National Longitudinal Survey of Children and Youth identified four factors that were strongly related to children's developmental outcomes: parenting skills, the cohesiveness of the family unit, the mental health of the mother, and the extent to which parents engage with their children.<sup>24</sup> The PIDACS included measures of these four key aspects of family life. The measures used and the results pertaining to Southeast Saskatchewan 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.<sup>25</sup>

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.

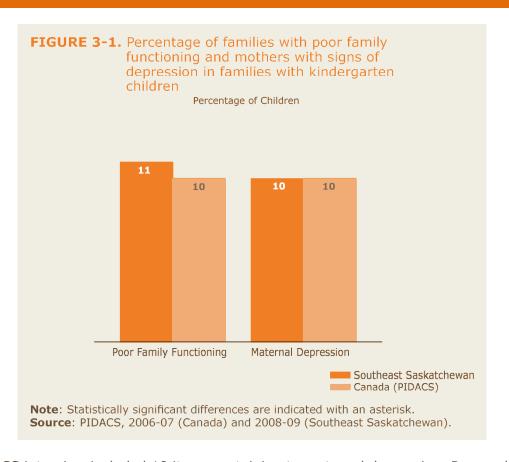
According to Health Canada, about 5% to 7% of mothers experience depression after the post-partum period. Depression is often accompanied by insomnia, emotional problems, anxiety, and feelings of guilt. These in turn can have adverse effects on a mother's interactions with her child, leading to poorer social and cognitive developmental outcomes. Depression among fathers may also have adverse effects, but the number of fathers studied in earlier research based on UEY and the National Longitudinal Survey of Children and Youth was insufficient to estimate its effects.

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, AB: University of Alberta Press. (page 356)

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, AB: University of Alberta Press.

<sup>&</sup>lt;sup>26</sup> Health Canada. (1999). Women's Health Strategy. Ottawa, ON: Bureau of Women's Health and Gender Analysis, Health Canada. Retrieved from the Health Canada Web site: www.hc-sc.gc.ca/english/women/womenstrat.htm

<sup>&</sup>lt;sup>27</sup> Murray, L., & Cooper, P. (1997). Effects of postnatal depression on infant development. *Archives of Disease in Childhood*, 72(2), 99-101.



The PIDACS interview included 10 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 had felt or behaved that way during the previous week, for example, "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". On such statements respondents who were mothers or female guardians would have indicated that they felt this way: "Rarely or none of the time (less than 1 day)", "Some or a little of the time (1-2 days)", "Occasionally or a moderate amount of the time (3-4 days)", and "Most or all of the time (5-7 days)". These answers were scored and then scaled on a four-point scale, with 0 denoting "Rarely or none of the time" and 3 denoting "Most or all of the time". In this report, a low-score cut-off of 0.75 was used to identify mothers who were displaying strong signs of depression. Using this cut-off of 0.75, it was found that about 10% of mothers in the Canadian PIDACS sample displayed strong signs of depression. This prevalence was comparable to that seen in other studies, including the National Longitudinal Survey of Children and Youth.

Figure 3-1 shows the prevalence of families with poor family functioning and the prevalence of maternal depression. About 11% of the families in Southeast Saskatchewan had low scores on the measure of family functioning, while 10% of the mothers were displaying strong signs of depression. On both of these indicators, the results for Southeast Saskatchewan were comparable to the corresponding Canadian PIDACS averages. (See discussion regarding the Canadian PIDACS average on page I-9).

Table 3-1 depicts differences among sub-populations of Southeast Saskatchewan with respect to the prevalence of families with poor family functioning and maternal depression. There was a higher prevalence of poor family functioning in low-income and single-parent families, Aboriginal families, and families in which the mother or father had not completed secondary school. Mothers were more likely to experience depression if they were single parents, or living in low-income families, Aboriginal families, or families in which the mother had not completed secondary school.

TABLE 3-1. Differences among Southeast Saskatchewan sub-populations in maternal depression and poor family functioning in families with kindergarten children (% children)

	Poor Family Functioning	Maternal Depression
All Children	11	10
Child's Sex		
Girls	10	9
Boys	11	12
Family Income		
Below \$30,000/year	19	19
At or above \$30,000/year	8	8
Mothers' Employment		
Not employed	14	12
Employed	8	9
Fathers' Employment		
Not employed	8	9
Employed	9	9
Mothers' Education		
Did not complete secondary	29	23
Completed secondary	9	9
Fathers' Education		
Did not complete secondary	20	15
Completed secondary	7	8
Family Structure		
Single-parent family	23	23
Two-parent family	9	9
Aboriginal Status		
Non-Aboriginal	8	9
Aboriginal	24	17

**Note:** Differences that are statistically significant (p < 0.05) are in bold text.

#### Parenting Practices

A number of studies have shown that children have better developmental outcomes when parents are loving and responsive to their child's needs and socialize their child by making demands for mature behaviour and by supervising their child. In PIDACS, parents answered 14 questions that were used to develop scales for these two critical dimensions of parenting practices.

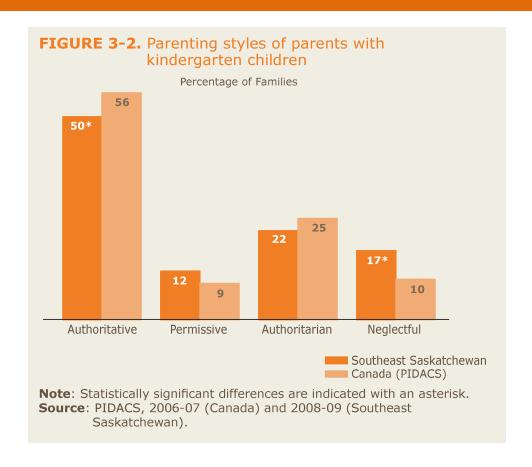
**Love and Support:** This scale measures the extent to which parents are loving, responsive to the child's needs, and recognize the child's individuality. Parents who are loving and supportive tend to praise their children more, and are warm and expressive. Parents would score low on this measure if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

As illustrated in Table 3-2, these two constructs are commonly used in a typology of parenting styles, which classifies parents in terms of their responses to the needs of children for nurturance and supervision.<sup>28</sup>

TABLE 3-2. Typology of parenting styles as a function of "Love and Support" and "Authority"						
		Love and	Support			
		High	Low			
Authority	High	Authoritative	Authoritarian			
	Low	Permissive	Neglectful			

<sup>&</sup>lt;sup>28</sup> Baumrind, D. (1991). The influence of parenting style on adolescent competence and substance abuse. *Journal of Early Adolescence*, 11(1), 56-95.



Parents who score high on both dimensions of parenting are considered 'authoritative' parents. Several studies, including studies based on the National Longitudinal Survey of Children and Youth have shown that children of these parents have better developmental outcomes.<sup>29</sup> In contrast, parents who are loving and supportive but lack authority are considered 'permissive', while those who display authority but are less loving and supportive are considered 'authoritarian'. Parents who are less loving and responsive and do not adequately monitor their children's behaviour are referred to as 'neglectful'. Based on their scores on the measures of 'love and support' and 'authority', parents were classified as authoritative, permissive, authoritarian, or neglectful. With this classification, about 56% of Canadian parents (PIDACS 2006-07) were authoritative, 9% were permissive, 25% were authoritarian, and 10% were neglectful.

Figure 3-2 shows the percentage of families in each of the four categories for Southeast Saskatchewan compared with the national average. Only 50% of the families were classified as authoritative, which was below the Canadian PIDACS average of 56%, while 17% were classified as neglectful, which was above the Canadian PIDAC average. The percentages of families with parents in the permissive and authoritarian categories did not differ significantly from the Canadian PIDACS averages.

<sup>&</sup>lt;sup>29</sup> 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.

Other research, including research based on the National Longitudinal Survey of Children and Youth, has also shown that parental engagement with children in such activities as reading to them, playing games with them, or simply talking and laughing with them has positive effects on their development. In PIDACS, parents were asked a number of questions on engagement with their children. The best marker of engagement, in terms of its relationship to children's development, is the amount of time parents spend reading to their child. In contrast, time spent watching television or videos takes away from time spent doing constructive activities; excessive amounts can have a detrimental effect on children's outcomes.

In Southeast Saskatchewan, 68% of the parents read to their child at least once every day. This was below the Canadian PIDACS average, which was 77%. On average, the kindergarten children spent 2.0 hours per day watching television, which was significantly higher than the Canadian average of 1.6 hours.

Table 3-3 depicts differences among sub-populations in Southeast Saskatchewan in the percentage of parents displaying an authoritative parenting style, the percentage reading to their child at least once a day, and the average time children spent watching television or videos. Single parents were more likely to have an authoritative parenting style. Aboriginal children and children whose parents had not completed secondary school were less likely to be read to at least once every day and spent more time watching television or videos. Also, the amount of time spent watching television was higher in low-income families and in families in which the mother was unemployed.

TABLE 3-3. Differences among Southeast Saskatchewan subpopulations in parenting practices (authoritative style, reading to child, and child watching television or videos) in families with kindergarten children

	Authoritative Style (% children)	Reads to Child at Least Once a Day (% children)	Child Watching Television or Videos (hours)
All Children	50	68	2.0
Child's Sex			
Girls	49	69	1.9
Boys	50	68	2.0
Family Income			
Below \$30,000/year	48	69	2.3
At or above \$30,000/year	52	72	1.9
Mothers' Employment			
Not employed	50	70	2.2
Employed	49	68	1.9
Fathers' Employment			
Not employed	60	77	2.2
Employed	48	69	1.9
Mothers' Education			
Did not complete secondary	38	52	2.9
Completed secondary	50	70	1.9
Fathers' Education			
Did not complete secondary	48	51	2.6
Completed secondary	48	71	1.9
Family Structure			
Single-parent family	69	66	2.2
Two-parent family	48	69	2.0
Aboriginal Status			
Non-Aboriginal	50	72	1.9
Aboriginal	49	51	2.6

TABLE 3-4. Parents' engagement with their kindergarten children and their children's literacy activities (% children)

	Southeast Saskatchewan	Canada (PIDACS)					
Parent does the following activities with the child at least once every day							
Encourages him or her to use numbers in daily activities	71	71					
Teaches him or her to read words	36	63					
Tells stories	53	61					
Takes him or her outside to play	36	47					
Watches television with him or her	52	47					
Teaches him or her to print letters or numbers	39	46					
Sing songs (including action songs)	37	41					
Plays cards or board games	8	9					
Child does the following activities at least once every	y day						
Plays with pencils or markers doing real or pretend writing	71	72					
Reads or tries to read	56	71					
Looks at books, magazines, comics, etc. on his or her own	67	63					
Does puzzles	12	10					
<b>Note:</b> Differences that are statistically significant ( $p < 0.05$ ) are in bold text. <b>Source:</b> PIDACS, 2006-07 (Canada) and 2008-09 (Southeast Saskatchewan).							

Table 3-4 shows the percentage of parents who were engaged with their child doing various activities at least once every day. For six of the eight activities (the exceptions were encouraging the child to use numbers in daily activities and watching television with the child) the parents in Southeast Saskatchewan were less engaged than their Canadian PIDACS peers. With respect to literacy-related activities, compared with the Canadian PIDACS average a smaller percentage of children tried to read, or read every day.

TABLE 3-5. Differences among Southeast Saskatchewan subpopulations in parents' engagement with their children and kindergarten children's literacy activities (% children)

	Parents' Engagement with Child							Child's Activities				
	Encourages Use of Numbers	Teaches to Read Words	Tells Stories	Takes Outside to Play	Watches Television	Teaches Printing	Sings Songs	Plays Games	Does Real or Pretend Writing	Reads or tries to Read	Looks at Books, Etc.	Does Puzzles
All Children	71	36	53	36	52	39	37	8	71	56	67	12
Child's Sex												
Girls	70	40	55	34	54	41	43	9	84	68	72	13
Boys	73	32	52	38	50	38	32	7	60	45	62	11
Family Income												
Below \$30,000/year	69	40	59	41	62	47	42	12	76	58	62	14
At or above \$30,000/year	72	35	53	36	49	38	35	6	72	56	69	11
Mothers' Employment												
Not employed	71	40	52	37	47	42	35	9	69	55	61	10
Employed	72	33	54	36	54	38	38	8	72	56	70	13
Fathers' Employment												
Not employed	79	42	62	53	74	64	44	10	77	49	59	19
Employed	70	34	52	34	50	37	36	7	71	57	67	10
Mothers' Education				4.0								
Did not complete secondary	76	37	52	43	81	60	36	35	78	43	44	18
Completed secondary	71	35	54	36	50	37	37	6	70	57	68	11
Fathers' Education	70	27	4.4	27	62	42	24	7	<i>c</i> ¬	F-2	F0	4.5
Did not complete secondary	70	37	44	37	63	42	31	7	67	52	59	15
Completed secondary	71	34	54	35	50	38	37	7	72	57	67	10
Family Structure	77	53	53	39	57	47	42	18	78	48	69	19
Single-parent family	71	34	53	39	51	39	42 37	18 7	78 71	48 57	67	19
Two-parent family	/ L	34	JJ	30	ЭΙ	29	3/	/	/ L	3/	07	тт
Aboriginal Status	73	35	53	34	49	38	36	7	73	56	68	10
Non-Aboriginal	65	45	54	47	66	49	41	17	65	56	57	22
Aboriginal	05	73	54	7/	50	マシ	71	- /	05	50	57	~~

Table 3-5 displays differences among sub-populations in Southeast Saskatchewan in the percentage of parents engaged in various activities with their child at least once every day, and the percentage of children that were engaged in literacy activities at least once every day. Girls were more likely to be engaged in most literacy-related activities than boys; the exception was doing puzzles. Generally, in Aboriginal families and in families in which the father was unemployed or the mother had not completed secondary school, parents tended to be more frequently engaged in taking their child out to play, watching television, teaching printing, or playing games with their child (although not all differences were statistically significant).

#### **B. CHILDREN'S PARTICIPATION IN COMMUNITY ACTIVITIES**

PIDACS included a number of questions regarding the nature of children's activities 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.<sup>30</sup>

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 is a risk factor for childhood obesity. In this case, the Canadian PIDACS 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. 32

#### Physical and Leisure Activity

Figure 3-3 shows the number of times per week that kindergarten children in Southeast Saskatchewan were engaged in sports and other activities. On average, they were engaged in organized sports that involve a coach or instructor about 1.6 times per week, which is more frequent than the Canadian PIDACS average of 1.4 times per week. Also, the children in Southeast Saskatchewan were more frequently engaged in unorganized sports: 4.8 times per week compared to the Canadian PIDACS average of 3.8 times per week. Unorganized sports do not involve a coach or instructor, and thus can include many types of activities that children engage in such as running, skipping, swimming or sports activities in their neighbourhood. Although the overall level of activity of the children in this community was above the Canadian PIDACS average, Canada's *Physical Activity Guide for Children* recommends that children gradually increase the amount of time spent in physical activity per day to 60 minutes of moderate physical activity and 30 minutes of vigorous activity.<sup>33</sup>

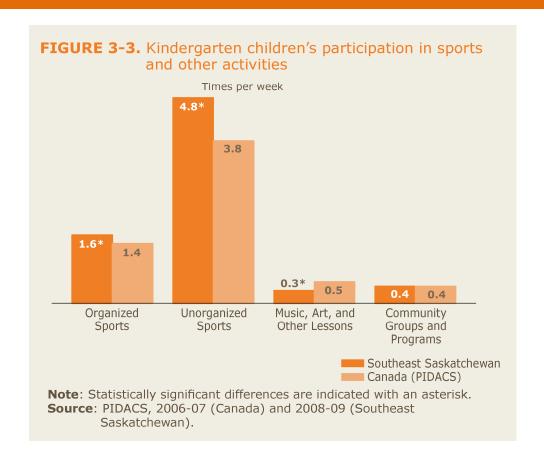
<sup>&</sup>lt;sup>30</sup> Connor, S. & Brink, S. (1999). Understanding the Early Years – Community Impacts on Child Development. Hull: Applied Research Branch, Strategic Policy. Human Resources and Skills Development Canada.

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

<sup>&</sup>lt;sup>31</sup> 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.

<sup>&</sup>lt;sup>32</sup> 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: Active Healthy Kids Canada.

<sup>&</sup>lt;sup>33</sup> 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.



The participation rate of Southeast Saskatchewan children in art, music and other lessons was slightly below the Canadian PIDACS average, while their participation in clubs, groups, and community programs, such as Beavers, Sparks, and church was comparable to the Canadian PIDACS average.

Differences among sub-populations in participation in organized and unorganized sports are shown in Table 3-6. On average, kindergarten children in low-income and single-parent families and families in which the father was unemployed or a parent had not completed secondary school were less likely to participate in organized sports. Aboriginal children were also less likely to participate in organized sports compared with their non-Aboriginal peers. There were no significant differences among sub-populations in children's participation in unorganized sports.

TABLE 3-6. Differences among Southeast Saskatchewan sub-populations in kindergarten children's participation in sports (times per week)

	Organized Sports	Unorganized Sports
All Children	1.6	4.8
Child's Sex		
Girls	1.6	4.8
Boys	1.7	4.9
Family Income		
Below \$30,000/year	1.1	4.9
At or above \$30,000/year	1.8	4.9
Mothers' Employment		
Not employed	1.5	4.8
Employed	1.7	4.9
Fathers' Employment		
Not employed	0.8	5.1
Employed	1.8	4.8
Mothers' Education		
Did not complete secondary	0.4	4.4
Completed secondary	1.7	4.9
Fathers' Education		
Did not complete secondary	1.1	4.8
Completed secondary	1.8	4.9
Family Structure		
Single-parent family	1.2	4.8
Two-parent family	1.7	4.9
Aboriginal Status		
Non-Aboriginal	1.8	4.8
Aboriginal	0.8	5.1

#### 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**

- library or bookmobile, including the school library;
- book clubs and reading programs;
- · family resource centres or drop-in programs;
- · educational or science centres;

#### Entertainment and Cultural Resources

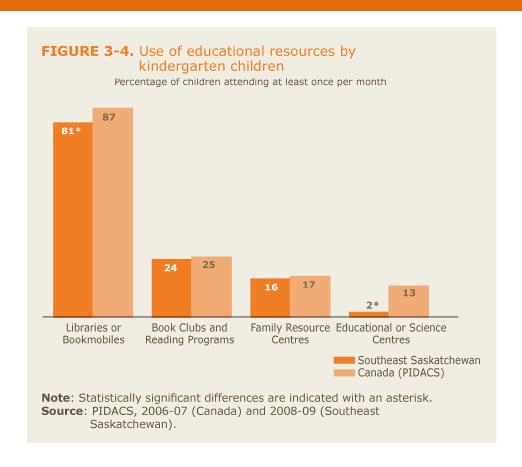
- sporting events, at local or professional venues;
- movies;
- museums, art galleries, or exhibits;
- plays or musical performances;

#### Recreational Resources

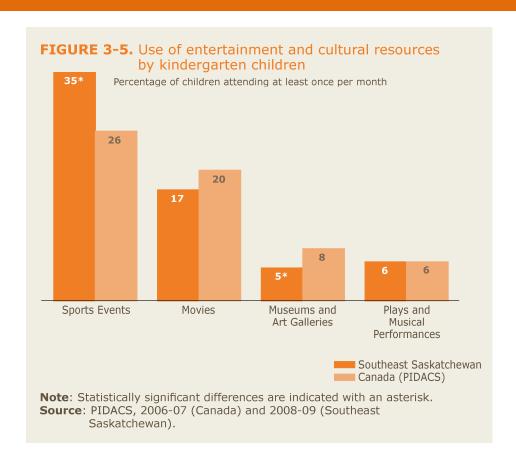
- · parks, play spaces and recreational trails;
- beaches, indoor or outdoor pools, or wading pools;
- · skating or hockey rinks or skiing facilities;
- · recreational or community centres; and
- provincial or national parks and camping areas.

The availability of each type of educational, entertainment, cultural and recreational resource varies among communities, and, in some communities, the use of some resources was low because the resources were not readily available in the community.

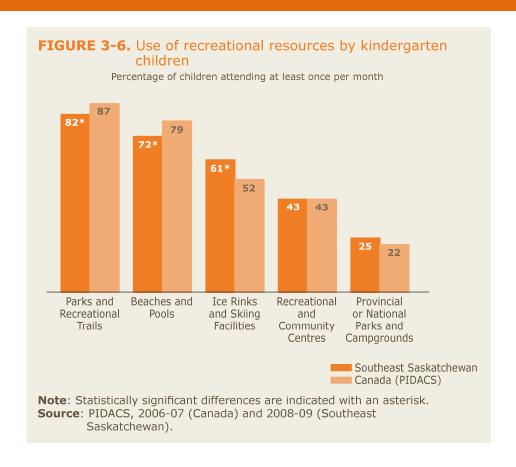
Figures 3-4, 3-5 and 3-6 show the percentage of children in Southeast Saskatchewan that used these various kinds of resources.



About 81% of the kindergarten children in Southeast Saskatchewan used libraries or bookmobiles at least once every month. Although this may seem high, it was lower than the average participation rate of Canadian children. Participation rates in book clubs and reading programs and in family resource centres were comparable to the Canadian PIDACS average. Only about 2% of the children in Southeast Saskatchewan attended educational or science centres, which was lower than the frequency at which Canadian children this age participated in this kind of activity.



Attendance at sporting events was a frequent activity for the kindergarten children of Southeast Saskatchewan. Nearly 35% of the children participated in this activity at least once per month, which was above the Canadian PIDACS average of 26%. About 17% of the children in Southeast Saskatchewan went to the movies at least once per month, 5% visited museums and art galleries, and 6% attended plays and musical performances. The participation rate for attending museums and art galleries was below the Canadian PIDACS average; rates for the other two activities were comparable to the averages for children this age.



Eighty-two per cent of the children in Southeast Saskatchewan used parks, play spaces and trails at least once per month, while 72% used beaches or swimming pools. These rates are high but below the corresponding Canadian PIDACS averages. The children in this community used ice rinks and skiing facilities more often than their Canadian peers, and their use of other recreational resources was comparable to that of other Canadian children their age.

Table 3-7 displays differences among sub-populations of Southeast Saskatchewan in their use of community resources. There were relatively few inequalities associated with children's use of education and cultural facilities. The most noteworthy difference is in children's use of ice rinks and skiing facilities. Aboriginal children, children in low-income and single-parent families, and children from families in which a parent was unemployed or had not finished secondary school were less likely to use these facilities. Similar inequalities were evident for children's use of beaches, pools, parks and campgrounds, but the differences were not consistently significant across all of the sub-populations.

TABLE 3-7. Differences among Southeast Saskatchewan subpopulations in kindergarten children's use of community resources (% children)

	E	duca	tion	al			inm ultur			Reci	reati	onal	
	Library or bookmobile	Book clubs and reading programs	Family resource centres	Educational or science centres	Sports events	Movies	Museums and art galleries	Plays and musical performances	Parks and recreational trails	Beaches and pools	Ice rinks and skiing facilities	Recreational and community centres	Parks and campgrounds
All Children	81	24	16	2	35	17	5	6	82	72	61	43	25
Child's Sex													
Girls	82	24	15	1	31	16	3	7	85	73	62	43	24
Boys	81	24	16	3	39	18	6	6	79	72	59	43	26
Family Income													
Below \$30,000/year	78	23	20	3	28	24	4	3	82	73	41	36	27
At or above \$30,000/year	84	27	17	2	39	15	4	6	82	75	67	46	25
Mothers' Employment			- 4			1.0							
Not employed	82	27	14	0	30	18	3	6	79	68	53	34	23
Employed	81	23	16	3	39	16	5	6	83	76	65	48	27
Fathers' Employment	74	24	0	2	29	19	2	5	76	68	22	24	27
Not employed	82	24 25	9 15	2 2	36	15	4	5 6	82	72	32 65	34 43	27 25
Employed  Mothers' Education	02	23	ΤJ	_	50	TO	7	U	OΖ	1 4	03	40	23
	67	20	11	0	27	21	0	10	81	54	37	22	16
Did not complete secondary  Completed secondary	82	24	16	2	36	17	5	6	82	<b>75</b>	63	44	26
Fathers' Education	02	- 1		_	50	- /		J	02	, ,			20
Did not complete secondary	79	19	14	1	23	17	0	9	67	55	33	23	16
Completed secondary	82	26	15	2	37	15	4	6	83	75	67	45	26
Family Structure													
Single-parent family	76	19	20	3	38	36	14	7	92	74	45	46	24
Two-parent family	82	25	15	2	35	15	3	6	80	72	63	42	25
Aboriginal Status													
Non-Aboriginal	83	25	15	2	34	14	4	4	83	77	<b>67</b>	45	27
Aboriginal	70	17	19	2	41	34	8	17	74	48	31	32	16

#### 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 on the factors that parents felt were barriers to their children's participation. For the full UEY-21 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 available to older children only.
- 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.
- I. Cultural or religious reasons.
- m. Health reasons.

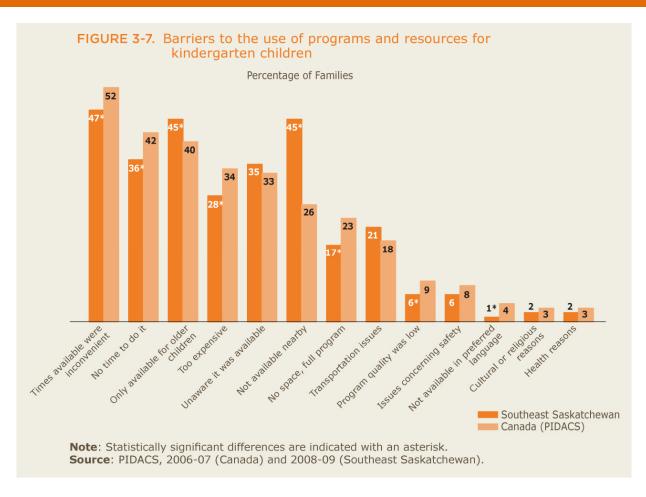


Figure 3-7 shows the percentage of families in Southeast Saskatchewan that considered each issue to be a barrier to their use of programs and resources. The five most prominent barriers identified by the parents were: programs were not available at convenient times (47%), programs were not available nearby (45%), programs were only available to older children (45%), there was not enough time (36%), and being unaware the resource was available (35%). A noteworthy result is that program costs were less of an issue for this community than the Canadian PIDACS average.

Table 3-8 displays differences in the perceived barriers to the use of programs and resources among sub-populations of Southeast Saskatchewan for the five most important barriers identified. There were relatively few differences among sub-populations in their perceived barriers. However, being unaware of available programs and the non-availability of programs nearby for kindergarten children were more frequently cited as significant barriers for Aboriginal families, while not having the time to participate was less of a barrier than it was for non-Aboriginal families.

TABLE 3-8. Differences among Southeast Saskatchewan sub-populations in the five most prominent barriers to kindergarten children's use of community resources (% children)

	Times available were inconvenient	Not available nearby	Only available for older children	No time to do it	Unaware it was available
All Children	47	45	45	36	35
Child's Sex					
Girls	48	49	47	39	38
Boys	46	42	43	34	32
Family Income					
Below \$30,000/year	37	49	54	29	34
At or above \$30,000/year	49	46	42	42	34
Mothers' Employment					
Not employed	38	46	46	25	41
Employed	52	45	44	42	33
Fathers' Employment					
Not employed	33	52	53	28	34
Employed	48	45	43	39	35
Mothers' Education					
Did not complete secondary	33	51	67	34	42
Completed secondary	48	45	44	36	35
Fathers' Education					
Did not complete secondary	49	45	54	30	35
Completed secondary	47	46	43	40	35
Family Structure					
Single-parent family	40	38	46	31	41
Two-parent family	48	47	44	37	35
Aboriginal Status					
Non-Aboriginal	48	44	42	40	33
Aboriginal	44	56	62	18	49

#### 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,<sup>34</sup> and generally, the effects are stronger for children from low socio-economic backgrounds.<sup>35</sup> One must, however, stress 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.<sup>36</sup> The quality of child-care programs tends to vary considerably in Canada, and therefore their effects also vary.<sup>37</sup>

In PIDACS, the parents were asked a series of questions on 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 per week. Table 3-9 summarizes the findings.

In Southeast Saskatchewan, 41% of the families cared for their children at home without any other type of arrangement. This was comparable to the Canadian PIDACS average of 42%. For another 22% of families, care was provided by a relative or sibling at home, or by a relative in someone else's home. For those who used an alternate arrangement, the most frequent type was care by a non-relative in someone else's home (28%). About 7% of the parents of kindergarten children used day-care centres or after-school programs. The Canadian PIDACS average was 19%.

The study also found that among those using a child-care arrangement, about 45% used two or more different types of arrangements. On average, children were cared for in child-care arrangements for about 21 hours per week.

<sup>&</sup>lt;sup>34</sup> 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.

<sup>&</sup>lt;sup>35</sup> 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).

<sup>&</sup>lt;sup>36</sup> Ramey, C. T. & Ramey, S. L. (1998). Early intervention and early experience. *American Psychologist*, *53*(2), 109-120.

<sup>&</sup>lt;sup>37</sup> 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: OECD Publishing.

TABLE 3-9. Use of child-care arrangements for kindergarten children during out-of-school hours (% children)

	Southeast Saskat- chewan	Canada (PIDACS)			
Did not use a child-care arrangement	41	42			
Used at least one type of care arrangement	59	58			
Most frequently used type of care arrangement					
In own home by a relative (excluding siblings)	7	8			
In own home by a sibling	2	1			
Someone else's home by a relative	13	10			
In own home by a non-relative	2	5			
Someone else's home by a non-relative	28	15			
Day-care centre	6	10			
Before-school or after-school program	1	9			
Other child-care arrangement	1	1			
Among those using a care arrangement, use of multipl arrangements	e types of car	е			
One only	55	59			
Two types	32	20			
Three or more types	13	11			
Total time using some form of care arrangement (hours per week)	21 hours	18.4 hours			
Source: PIDACS, 2006-07 (Canada) and 2008-09 (Southeast Saskatchewan).					

Table 3-10 displays differences among sub-populations of Southeast Saskatchewan in the use of child-care arrangements. The most important determinants of whether parents used a child-care arrangement were whether or not the parents were employed or the father had completed secondary school. Girls were cared for in a child-care arrangement more frequently than were boys.

TABLE 3-10. Differences among Southeast Saskatchewan sub-populations in the use of child-care arrangements for kindergarten children (% children)

	Uses Child-Care Arrangement
All Children	59
Child's Sex	
Girls	66
Boys	52
Family Income	
Below \$30,000/year	52
At or above \$30,000/year	62
Mothers' Employment	
Not employed	30
Employed	73
Fathers' Employment	
Not employed	39
Employed	60
Mothers' Education	
Did not complete secondary	55
Completed secondary	60
Fathers' Education	
Did not complete secondary	44
Completed secondary	61
Family Structure	
Single-parent family	64
Two-parent family	58
Aboriginal Status	
Non-Aboriginal	61
Aboriginal	49

#### 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 tend to be lower levels of family stress and fewer parents experiencing depression.<sup>38</sup>

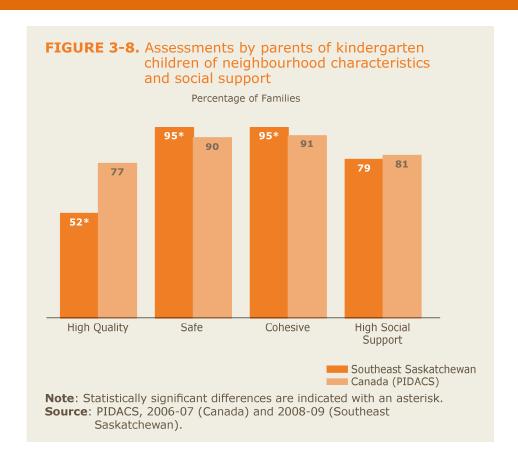
Three aspects of neighbourhood characteristics were assessed with PIDACS: neighbourhood quality, neighbourhood safety, and neighbourhood cohesion. PIDACS also included a measure of parents' social support. These measures and the results for Southeast Saskatchewan are described below and presented graphically in Figure 3-8.

Neighbourhood Quality. The PIDACS interviewer asked parents some general questions on 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 was a neutral response. An average rating above 5 was considered to reflect a 'quality neighbourhood'. Only 52% of the parents in Southeast Saskatchewan considered their neighbourhood to be of high quality. This was considerably lower than the Canadian PIDACS average of 77%.

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. As with neighbourhood quality, ratings above 5 on the ten-point scale were interpreted as indicating 'safe neighbourhoods'. Ninety-five per cent of the parents in Southeast Saskatchewan considered their neighbourhoods to be safe, which was above the Canadian PIDACS average of 90%.

Neighbourhood Cohesion. This PIDACS measure refers to whether neighbours were close and supported each other. In communities that scored high on this measure parents felt that neighbours helped each other, that when there was a problem the neighbours got together to deal with it, that there were adults in the neighbourhood that children could look up to, that parents watched out to make sure children were safe, and that when the family was away from home the neighbours kept their eyes open for possible trouble. Ratings above 5 on the ten-point scale for this measure were considered indicative of a 'cohesive neighbourhood'. In Southeast Saskatchewan, 95% of the parents considered their neighbourhoods to be cohesive, which was above the Canadian PIDACS average of 91%.

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.



Social Support. This PIDACS measure assesses the level of support that the parent felt from friends and family members. In communities that scored high on this measure, parents felt that there were family members and friends who helped them feel safe, secure and happy, that there were people they could turn to for advice or to talk about problems, and that there were people who shared their interests and had similar attitudes and concerns. As the scores on this measure were negatively skewed, a higher cut-off point, 6.67 on the tenpoint scale, was used to indicate a high level of social support. About 79% of the parents in Southeast Saskatchewan indicated that they felt high levels of social support, which was comparable to the Canadian PIDACS average of 81%.

Table 3-11 displays differences among sub-populations of Southeast Saskatchewan in the percentage of families reporting high levels on the measures of neighbourhood characteristics and social support. Aboriginal families and families in which either the mother or father had not completed secondary school were less likely to consider their neighbourhoods as high quality. A lower percentage of Aboriginal families, low-income families, single-parent families, and families in which the mother had not completed secondary school rated their neighbourhoods as safe, cohesive, and having a high level of social support.

TABLE 3-11. Differences among Southeast Saskatchewan subpopulations in parents' assessments of neighbourhood characteristics and social support (% families)

	High Quality	Safe	Cohesive	High Social
	Quantity.			Support
All Children	52	95	95	79
Child's Sex				
Girls	54	95	95	81
Boys	50	95	95	78
Family Income				
Below \$30,000/year	44	85	89	73
At or above \$30,000/year	55	96	97	84
Mothers' Employment				
Not employed	55	94	93	74
Employed	51	95	97	83
Fathers' Employment				
Not employed	51	89	91	76
Employed	52	96	97	81
Mothers' Education				
Did not complete secondary	25	85	80	58
Completed secondary	54	95	97	81
Fathers' Education				
Did not complete secondary	38	88	92	65
Completed secondary	53	97	97	83
Family Structure				
Single-parent family	57	86	89	69
Two-parent family	51	96	96	81
Aboriginal Status				
Non-Aboriginal	56	97	97	83
Aboriginal	28	85	84	63

# IV

### LOOKING FORWARD

#### IV. LOOKING FORWARD

#### A. WHAT MAKES SOUTHEAST SASKATCHEWAN UNIQUE?

Community-based research is important as it can help a community and its members understand how well their youngest citizens are developing and how they 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 two approaches: by direct assessments of children's development and by parent perceptions through the *Parent Interviews and Direct Assessments of Children Survey (PIDACS)*.

The first approach involved direct assessments of the children's language and cognitive skills. The children of Southeast Saskatchewan had scores on receptive vocabulary, number knowledge and pre-literacy skills that were below the Canadian PIDACS average (see discussion regarding the Canadian PIDACS average on page I-9). There was also a high prevalence of children with very low scores on these assessments.

The second approach involved the children's parents, who assessed their children's behaviour and health outcomes as part of the PIDACS parent interview. Based on parents' responses, the prevalence of children in Southeast Saskatchewan with behavioural problems was comparable to the Canadian PIDACS average. Twelve per cent of the children in the sample had low scores on the measure of positive social behaviour, which was also comparable to the Canadian PIDACS average. On assessments of general health, asthma, allergies, and chronic conditions the prevalence of children with significant health problems was comparable to the Canadian PIDACS average.

The 2006 Canadian Census data indicated that the average level of family income in Southeast Saskatchewan was about \$69,000, which was well below the Canadian average of about \$82,000. Similarly, the median income in Southeast Saskatchewan was about \$57,000, which was considerably below the national median of about \$66,000. About 20% of the families in this community had family incomes below \$30,000, a prevalence that was much higher than the national average of 15.1%. However, unemployment rates and transience rates were lower than Canadian norms.

Despite the economic challenges facing many families, the prevalence of mothers experiencing depression and of families with poor family functioning was comparable to that seen in the Canadian PIDACS population (a prevalence of 10% for both measures). However, the prevalence of parents displaying positive parenting practices was below the Canadian PIDACS average, as was the rate of parents reading daily to their child. Television watching was relatively high, with children watching television or videos on average about 2.0 hours per day. The children in this community tended to be actively engaged in both organized and unorganized sports, with average rates of 1.6 and 4.8 times per week, respectively. Children's use of many types of entertainment, cultural and recreational resources was lower than the levels of use seen in the Canadian PIDACS averages; the exceptions were attending sports events and the use of ice rinks and skiing facilities.

The most prominent barriers to participation were that programs were not available at convenient times (47%), programs were not available nearby (45%), programs were only available to older children (45%), there was not enough time (36%), and parents being

unaware the resource was available (35%). Program costs were less of an issue for the parents in this community than they were in the entire Canadian PIDACS population.

About 59% of the families in this community used some form of child-care arrangement while working or studying. The most frequently used type of care was care in someone else's home by a non-relative. An especially noteworthy finding was that only 52% of parents considered their neighbourhoods to be of high quality, which was much lower than the Canadian PIDACS average of 77%. However, the ratings of neighbourhood safety and cohesiveness were above the Canadian PIDACS average.

#### **B. CONCLUDING REMARKS**

The UEY Initiative is providing communities with valuable information on their needs and strengths. UEY is helping communities with different economic, social and physical characteristics to understand how their young children are faring, what the community is doing to support those children, and which family and community factors may influence young children's development. This *Community Research Report* for Southeast Saskatchewan presents data on kindergarten children's development and on family and community experiences from the *Parent Interviews and Direct Assessments of Children Survey*. The data were provided by parents and trained assessors reporting on the development of the children in their homes and at school.

Other local information available through the UEY project includes the results of kindergarten teachers' assessments of children's development using the *Early Development Instrument*, information on availability and accessibility of programs and services, and results describing local socio-economic characteristics from the Canadian Census. Taken together, these data can be used to start conversations about the implications of the research and the needs of children in this community. 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. Through the development of the *Community Action Plan*, and through events and activities to share the research information with parents, service providers, educators and others, the UEY staff and coalition will engage this community to better understand the importance of the development of their young children and the approaches to enhance that development.

#### **APPENDIX A: LIST OF PARTICIPATING COMMUNITIES**

#### **COMMUNITY**

#### **HOST ORGANIZATION**

#### **UEY Pilot Communities (5) Funded in 2000**

Saskatchewan Rivers School Division No. 119, **UEY PRINCE ALBERT** 

Prince Albert, Saskatchewan

Winnipeg School Division No.1, **UEY WINNIPEG** Winnipeg, Manitoba

Adventure Place, **UEY NORTH YORK** North York, Ontario

Early Child Development Association of PEI, **UEY PRINCE EDWARD ISLAND** Charlottetown, Prince Edward Island

Community Education Network, **UEY SOUTHWESTERN NEWFOUNDLAND** Stephenville, Newfoundland

#### **UEY Pilot Communities (7) Funded in 2001**

United Way of the Fraser Valley, **UEY ABBOTSFORD** Abbotsford, British Columbia

Saskatoon Communities for Children, **UEY SASKATOON** 

Saskatoon, Saskatchewan

South Eastman Health/Santé Sud-Est Inc., **UEY SOUTH EASTMAN** 

Steinbach, Manitoba

Early Childhood Community Development Centre, **UEY NIAGARA FALLS** 

St. Catharines, Ontario

Peel District School Board, **UEY DIXIE-BLOOR OF MISSISSAUGA** 

Mississauga, Ontario

Centre 1, 2, 3 Go!, **UEY MONTRÉAL** 

Montréal, Québec

Hampton Alliance for Lifelong Learning, **UEY HAMPTON** Hampton, New Brunswick

#### **UEY Communities (21) Funded in 2005**

Community Social Planning Council of Greater Victoria, **UEY GREATER VICTORIA** Victoria, British Columbia

United Way of the Fraser Valley,

**UEY MISSION** Abbotsford, British Columbia

UEY OKANAGAN SIMILKAMEEN	School District No. 53 (Okanagan Similkameen), Oliver, 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 NORTH SHORE	North Shore Community Resources, North Vancouver, British Columbia
UEY NORTHEAST SASKATCHEWAN	Northeast Regional Intersectoral Committee, Melfort, Saskatchewan
UEY DIVISION SCOLAIRE FRANCO-MANITOBAINE	Division scolaire franco-manitobaine, Lorette, Manitoba
UEY NIAGARA REGION	Early Childhood Community Development Centre, St. Catharines, Ontario
UEY OTTAWA	Success by 6/6 ans et gagnant Ottawa, Ottawa, Ontario
UEY NORTHERN REGION OF ONTARIO	Superior Children's Centre, Wawa, Ontario
UEY KAWARTHA LAKES AND HALIBURTON COUNTY	Ontario Early Years Centre - Haliburton Victoria Brock, Lindsay, Ontario
UEY LOWER HAMILTON	Wesley Urban Ministries, Hamilton, Ontario
UEY MILTON	Reach Out Centre for Kids, Burlington, Ontario
UEY NORTHUMBERLAND COUNTY	Northumberland Child Development Centre, Port Hope, Ontario
UEY POINTE-DE-L'ÎLE	Centre 1, 2, 3 Go!, Pointe-de-l'Île, 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

#### **UEY Communities (16) Funded in 2007**

Burnaby Family Life, **UEY BURNABY** Burnaby, British Columbia

Lower Mainland Purpose Society, **UEY NEW WESTMINSTER** New Westminster, British Columbia

Kootenay Boundary Community Services Co-operative, **UEY WEST KOOTENAY** Nelson, British Columbia

North Peace Community Resources Society, **UEY NORTH PEACE - NORTHERN ROCKIES** Fort St. John, British Columbia

Interior Community Services, **UEY KAMLOOPS** Kamloops, British Columbia

Volunteer Cowichan, **UEY COWICHAN VALLEY** Duncan, British Columbia

Family Services of Central Alberta, **UEY RED DEER** 

Red Deer, Alberta

Prairie South School Division No. 210, UEY MOOSE JAW - SOUTH-CENTRAL SASKATCHEWAN

Moose Jaw, Saskatchewan

Regina Qu'Appelle Health Region, **UEY REGINA** Regina, Saskatchewan

Holy Family Roman Catholic School Division No. 140, **UEY SOUTHEAST SASKATCHEWAN** 

Weyburn, Saskatchewan

Peel District School Board,

Prince Albert Grand Council, **UEY PRINCE ALBERT GRAND COUNCIL** Prince Albert, Saskatchewan

Lord Selkirk School Division, **UEY SELKIRK-INTERLAKE** 

East Selkirk, Manitoba

**UEY MALTON** Mississauga, Ontario

York Child Development and Family Services, **UEY GEORGINA** Newmarket, Ontario

Kids First Association, UEY PICTOU, ANTIGONISH AND GUYSBOROUGH New Glasgow, Nova Scotia

Cape Breton Family Place Resource Centre, UEY CAPE BRETON - VICTORIA Sydney, Nova Scotia