

Early Development Indicator (EDI) 2006 NIAGARA RESULTS

Speech Services Niagara ● June 20, 2007

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eccdc
early childhood community development centre
Understanding the Early Years

Niagara  **Region**

The Understanding
the Early Years
initiative is funded by
Human Resources and
Social Development
Canada. For further
information, visit
www.hrsdc.gc.ca





AGENDA

- **Overview of UEY and DAC**
- **The Early Development Instrument**
- **Local EDI Results**
- **Discussion**
- **Evaluations**



UNDERSTANDING THE EARLY YEARS (UEY)

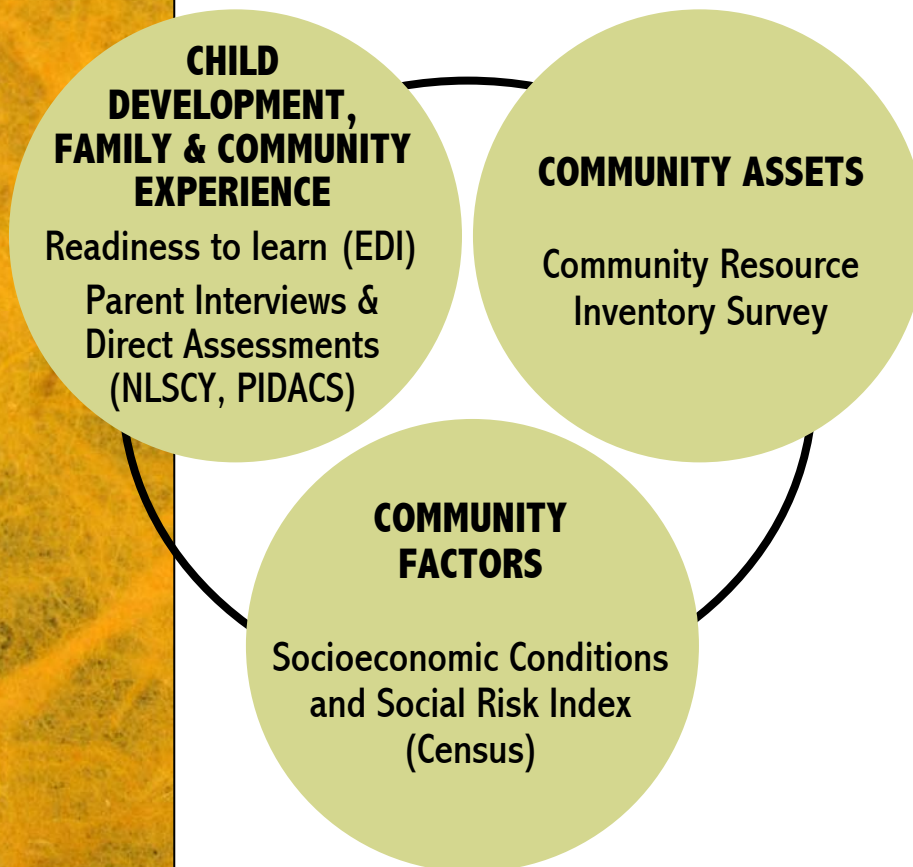
- **Funder: HRSDC (sites across Canada)**
- **Sponsor: ECCDC**
- **Community Coalition: Early Years Niagara**
- **Advisory Group: EYNRAG**
- **Partners: RMN (Children's Services, Public Health, DAC), OEYC's, DSBN, NCDSB, various early years service providers, community groups, and clubs**
- **History: Niagara Falls in 2001, Niagara Region in late 2005**



KEY DELIVERABLES

- **Promote awareness and understanding concerning the importance of the early years**
- **Examine the relationship between community factors and early learning and development outcomes in Niagara**
- **Report on local and national findings**
- **Support evidence-based decision making and planning in the community (capacity building)**

UEY KNOWLEDGE-GATHERING TOOLS



UEY Timeline

- 2001 EDI – UEY Niagara Falls
- 2002 National Longitudinal Study of Children & Youth (NLSCY)
- 2001 Census/Statistics Canada - UEY Niagara Falls, UEY Niagara Region
- 2002 EDI – UEY Niagara Falls/Ontario Early Years Niagara Region
- 2003 EDI – UEY Niagara Falls
- 2003 Community Resources Inventory Survey – Ontario Early Years Niagara Region/UEY Niagara Falls
- 2005 EDI - UEY Niagara Falls/Ontario Early Years Niagara Region
- 2005 NLSCY – UEY Niagara Falls
- 2006 EDI – UEY Niagara Region
- 2007 Community Resources Inventory Survey – UEY Niagara Region
- 2007 PIDACS – UEY Niagara Region



KEY PRODUCTS

- **Maps & Mapping Studies, EDI Reports, Community Studies**
- **Community Updates, School Board Reports, Parent Brochures**
- **Research Communiques, Articles, Specific Requested Reports**
- **Custom Presentations, Workshops, Community Forums, Conference Workshops, and Event Displays**



KEY IMPACTS TO DATE

- Identification of professional development, regional and neighbourhood needs
- Program and service delivery planning
- Resource allocation decision-making
- Proposal, grant, and report writing
- Research, event and product development partnerships
- Media coverage and community action
- Purchase of resources and sponsorship of events, activities and training
- Local and national knowledge enhancement



KEY NEXT STEPS

- **Community Brief (on additional analysis of 2006 EDI) and ongoing presentations**
- **Website Launch**
- **Community Mapping Study (EDI and socioeconomic variables)**
- **Community Study (analysis of 2007 parent interviews and direct assessment of SK children)**
- **Community Forum (November 2007)**
- **Community Action Planning Meetings and Plan**



DATA ANALYSIS COORDINATOR

(DAC position)

- **Funded by MCYS and housed at Niagara Regional Public Health Department**
- **Healthy, safe, productive communities by promoting and supporting Early Years strategies**
- **Gather & disseminate research, information, and statistics on children 0-6 in the Niagara Region**
- **Support Early Years in program planning & evaluation**
- **Assess community needs and capacity (Early Years)**
- **Work with programs to support development of new instruments and systems**
- **Ensure local implementation of the EDI**
- **Act as a technical liaison for Ontario Early Years Centre staff and EYSIS database creator**



EARLY YEARS NIAGARA

- “Early Years” = nationwide initiative
- 4 Ontario Early Years Centres
- Niagara Children’s Charter
- Literacy initiatives
- BEC and other community links



BEST START

- **Federal/Provincial/Municipal initiative**
- **Assist parents to help their children be successful in school**
- **Expand licensed child care spaces**
- **Introduce innovative approaches to healthy child development and early learning**
- **Bring together community services**
- **Emphasis on local neighbourhoods**



MAJOR UPCOMING PROJECTS

- **2007/08 Niagara's Best Start Community Integrated Plan**
- **2008 Community Report at neighbourhood level**
- **2008 EDI & Kindergarten Parent Survey (KPS)**
- **UEY Forum (2007)**



EARLY DEVELOPMENT INSTRUMENT (EDI)

Provides an important part of the picture for the community, as well as early years service providers and decision-makers.

- Population-based measure
- Developmentally grounded
- Links to community factors, literacy and school curriculum
- Best used in conjunction with other information



EARLY DEVELOPMENT INSTRUMENT (EDI)

Measures *'readiness to learn at school'* - refers to children's ability to meet task demands, such as:

- Being comfortable exploring and asking questions,
- Listening to the teacher,
- Playing and working with other children,
- Remembering and following rules, and
- Benefiting from the educational activities provided.



EARLY DEVELOPMENT INSTRUMENT (EDI)

Teacher-recorded measure on *five domains* of early child development:

- Physical Health & Well-being,
- Social Competence,
- Emotional Maturity,
- Language & Cognitive Development, and
- Communication Skills & General Knowledge.



EDI SUB-DOMAINS

Physical Health and Well-being

- Physical readiness for school day
- Physical independence
- Gross and fine motor skills

Social Competence

- Overall social competence
- Responsibility and respect
- Approaches to learning
- Readiness to explore new things

Emotional Maturity

- Pro-social and helping behaviour
- Anxious and fearful behaviour
- Aggressive behaviour
- Hyperactivity and inattention



EDI SUB-DOMAINS

Language and Cognitive Development

- Basic numeracy and literacy
- Interest in literacy, numeracy, and memory
- Advanced literacy

Communication Skills and General Knowledge

- Communicates easily and effectively using English
- Ability to participate in storytelling or imaginative play
- Ability to articulate clearly
- Showing adequate general knowledge and proficiency in their native languages



EDI USE IN OTHER AREAS

■ Toronto

- Relationship b/w EDI + Gr.6 EQAO scores

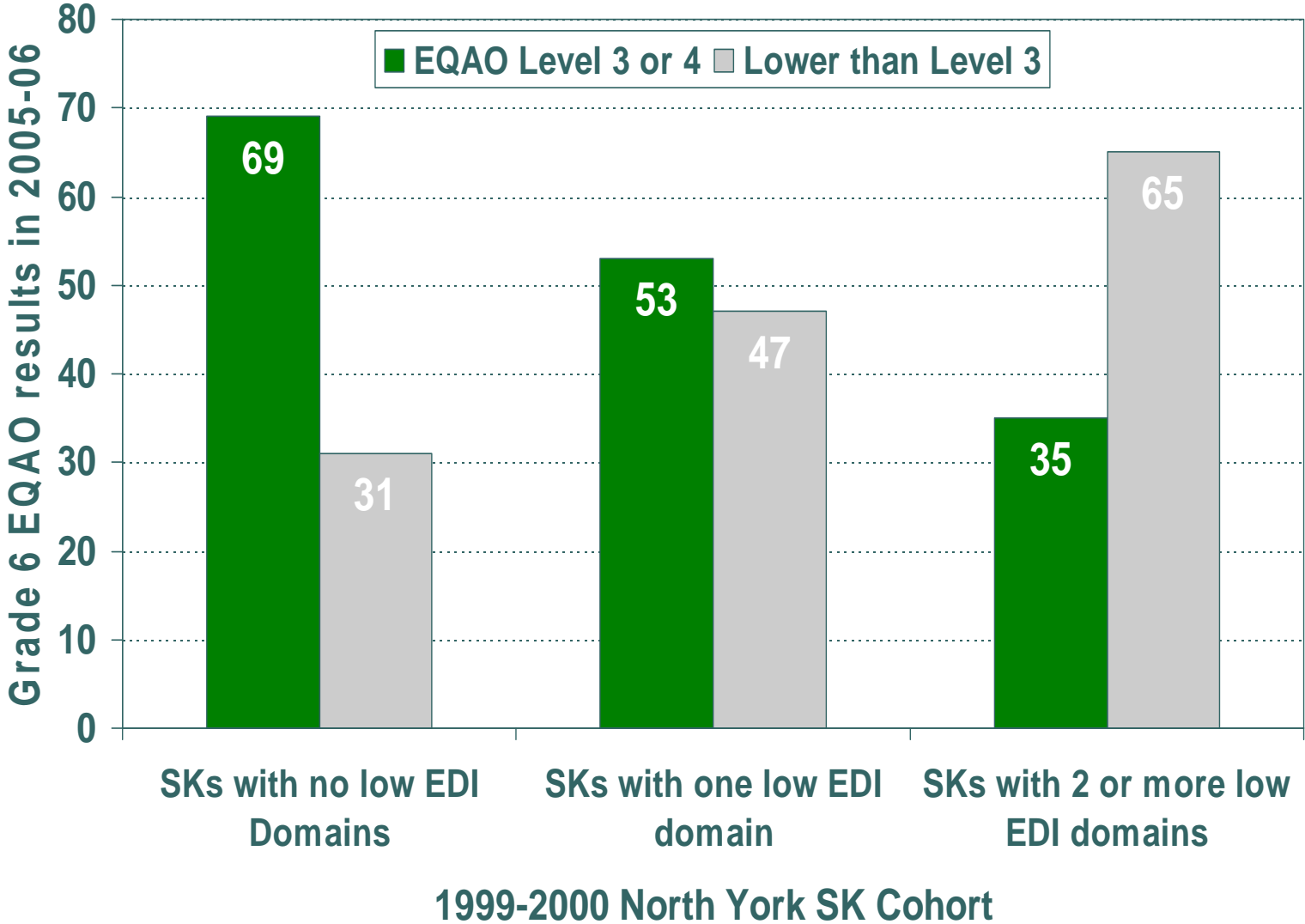
■ Halton

- Neighbourhood level
- Relationship b/w EDI + several other variables

Further analyses conducted by Dr. Magdalena Janus (co-creator of the EDI) at the Offord Centre for Child Studies, McMaster University, has shown that there are correlations between the EDI and Grade 3 EQAO scores as well. For additional information visit <http://www.offordcentre.com/readiness/>.

1999-2000 SK EDI and Grade 6 EQAO Results 6 Years Later

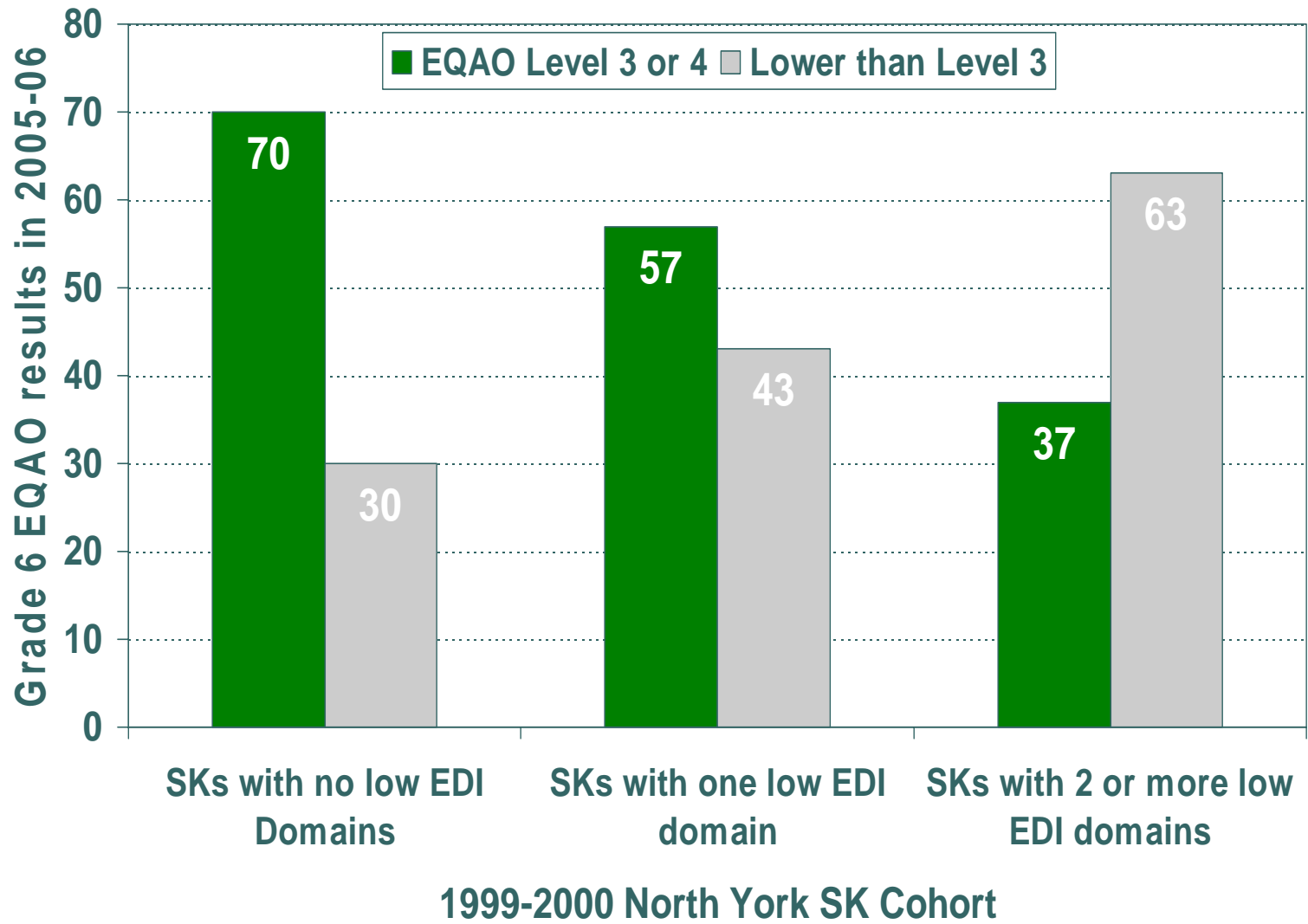
READING



Source: Toronto District School Board, March 2007

1999-2000 SK EDI and Grade 6 EQAO Results 6 Years Later

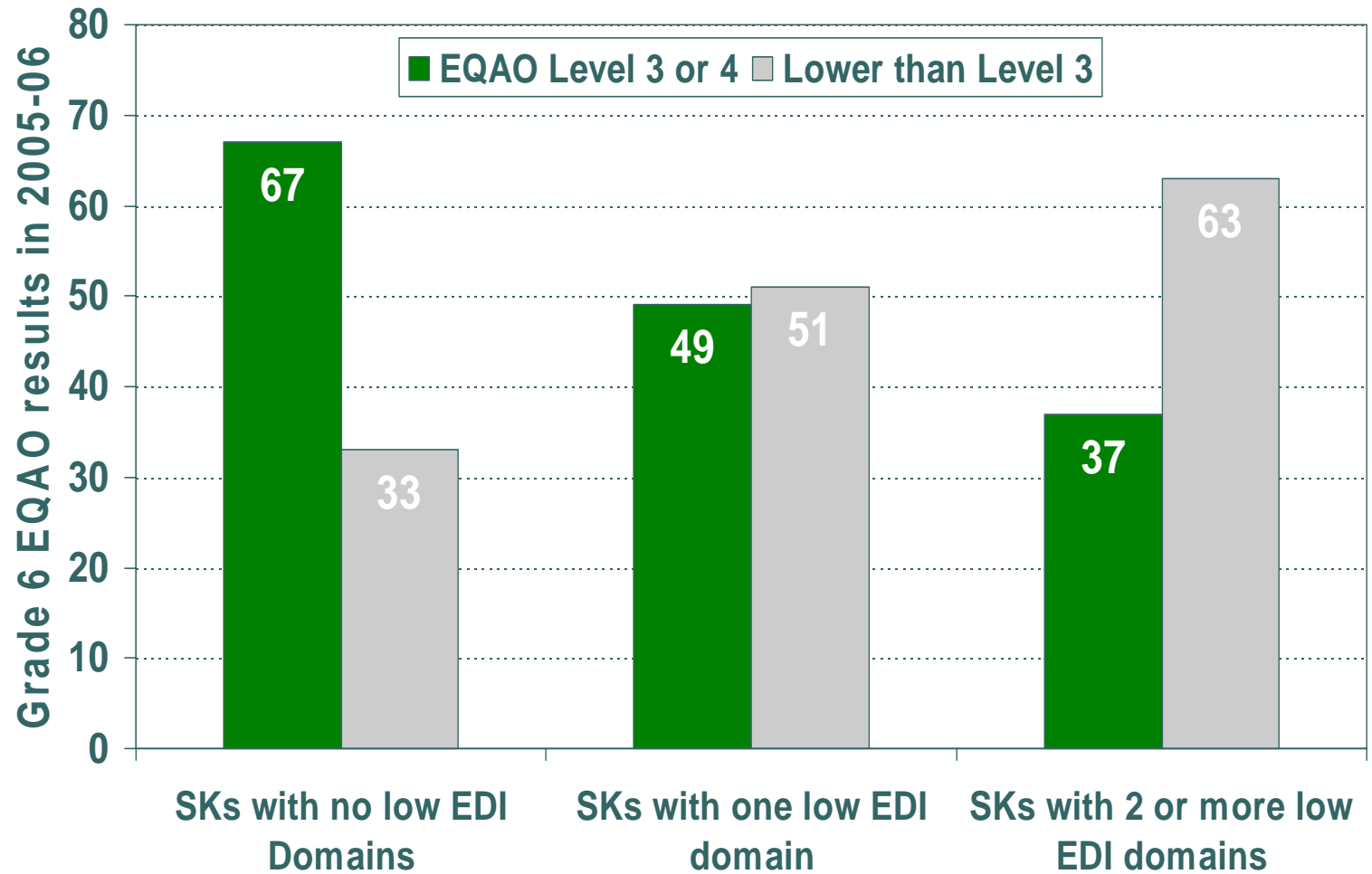
WRITING



Source: Toronto District School Board, March 2007

1999-2000 SK EDI and Grade 6 EQAO Results 6 Years Later

MATH



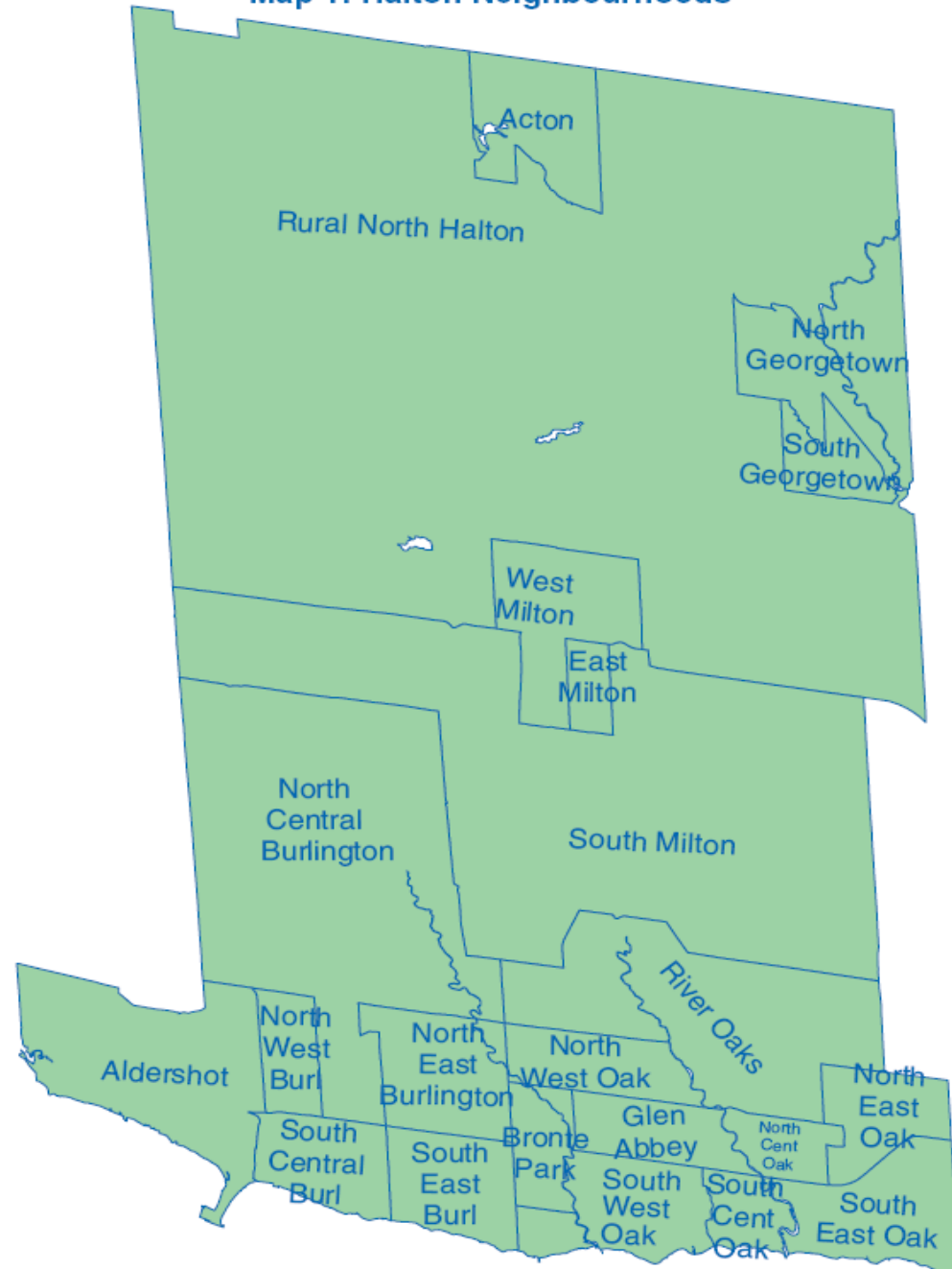
1999-2000 North York SK Cohort

Source: Toronto District School Board, March 2007

Halton

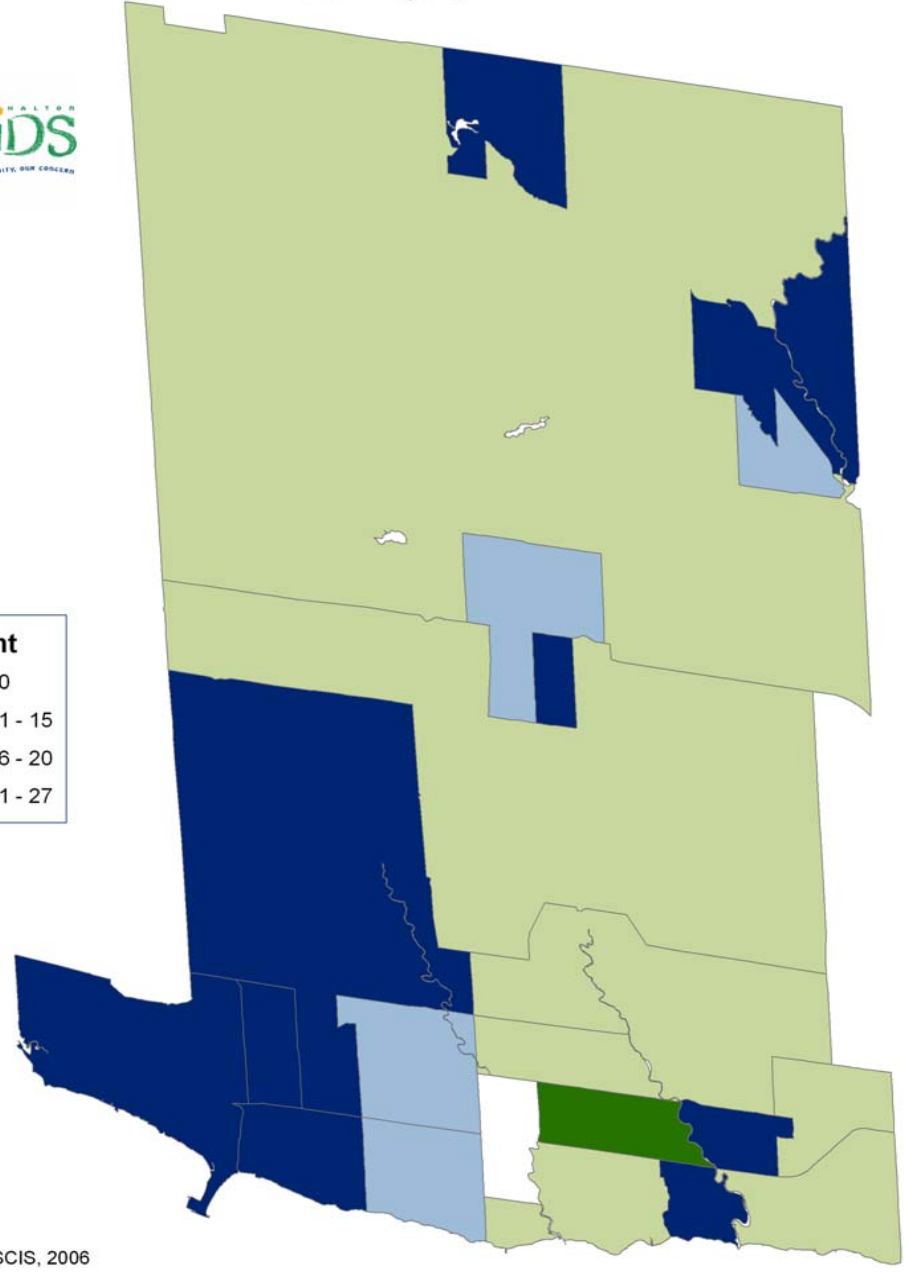
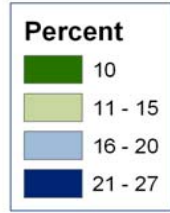
- Milton
- Burlington
- Oakville
- Acton
- Georgetown

Map 1: Halton Neighbourhoods



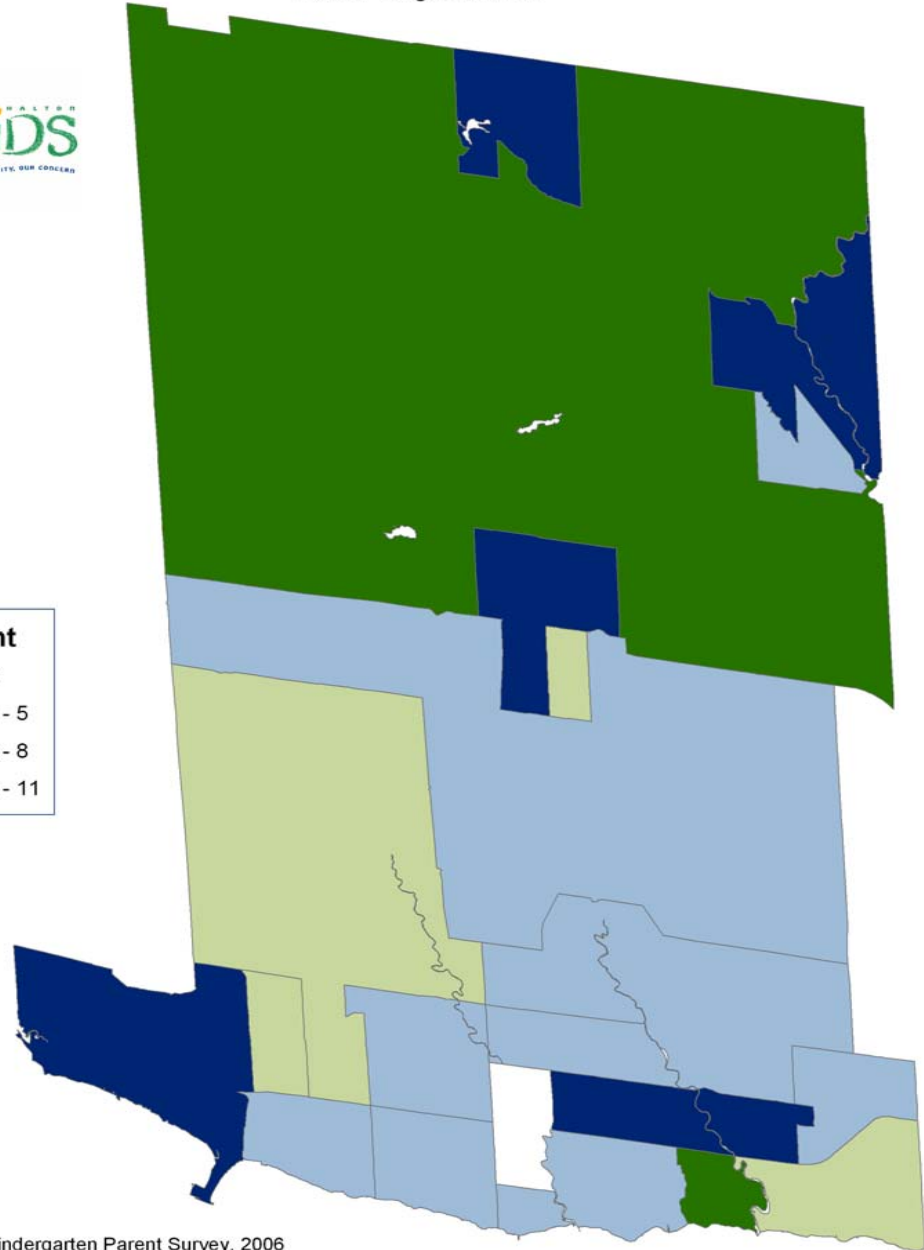
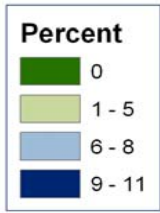


Percent of Newborn Babies At-Risk for Developmental Difficulties Halton Region, 2006



Data Source: ISCIS, 2006

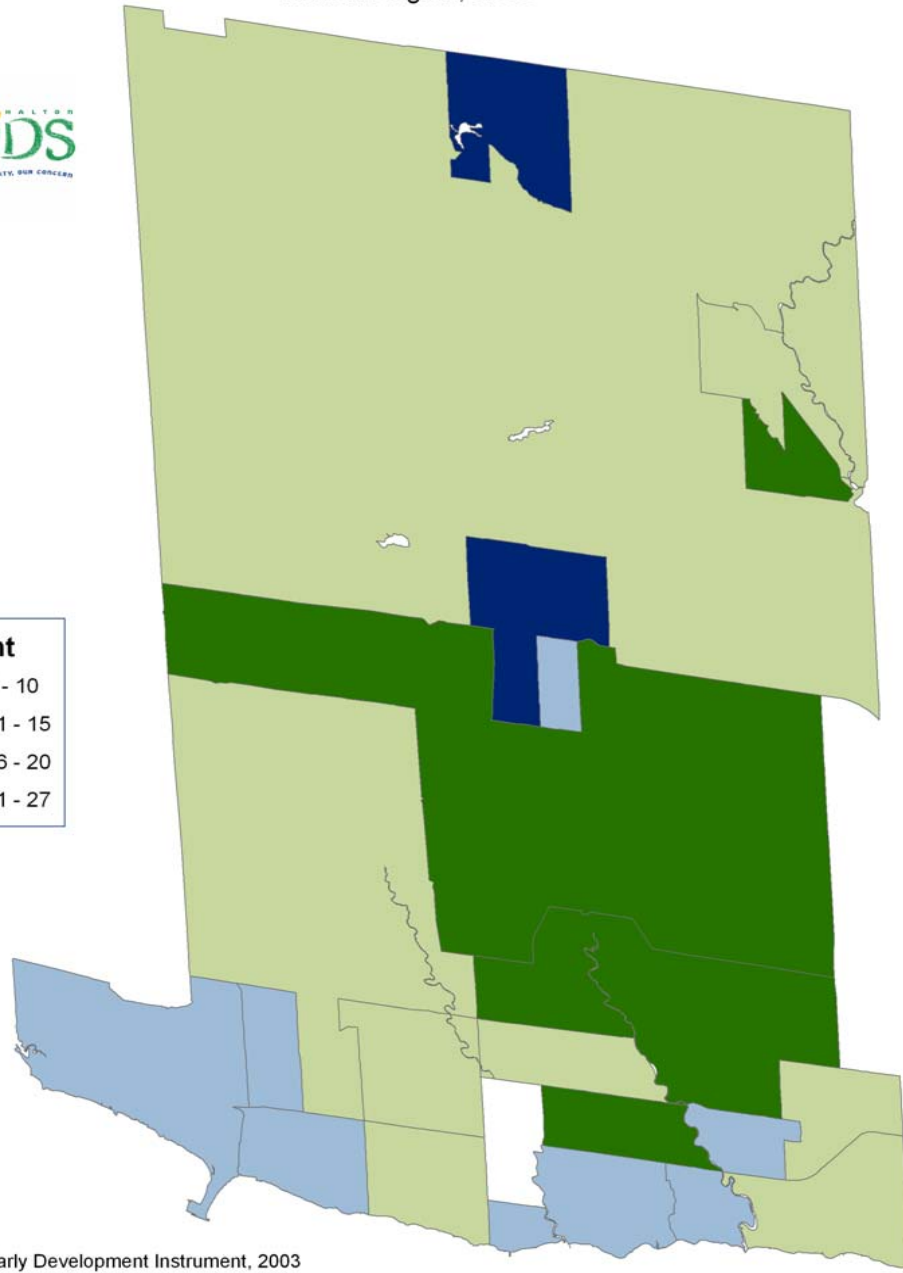
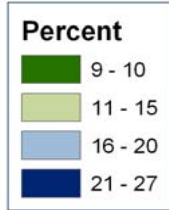
Percent of 5-Year Olds Experiencing Serious Injury
Halton Region, 2006



Data Source: Kindergarten Parent Survey, 2006

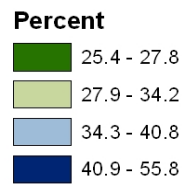


Percent of 5-Year Olds Who are Developmentally Vulnerable Halton Region, 2006



Data Source: Early Development Instrument, 2003

Percent of Parents of 5-years Olds Playing Who Have NOT Volunteered in the Past 12 Months Halton Region, 2006

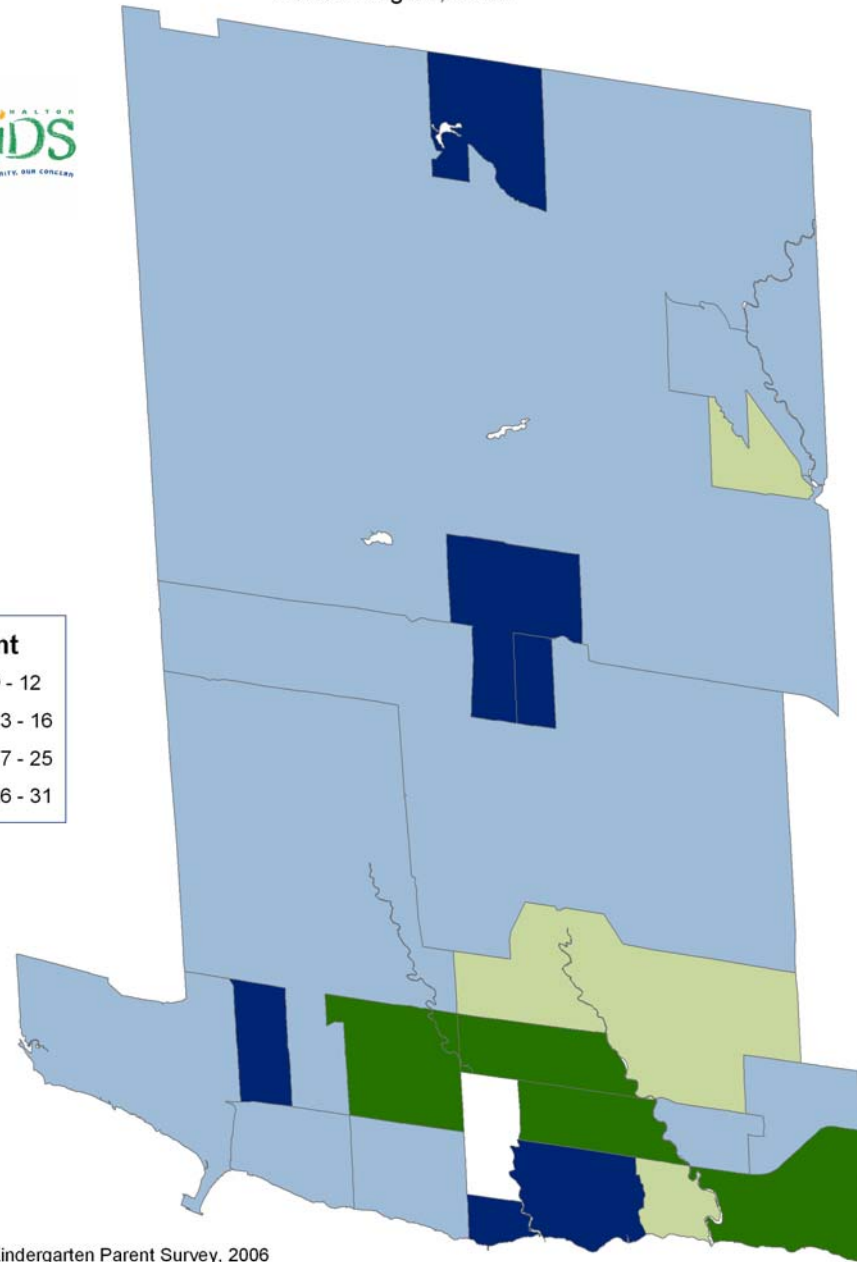
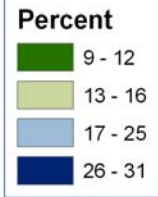


Data Source: Kindergarten Parent Survey, 2006





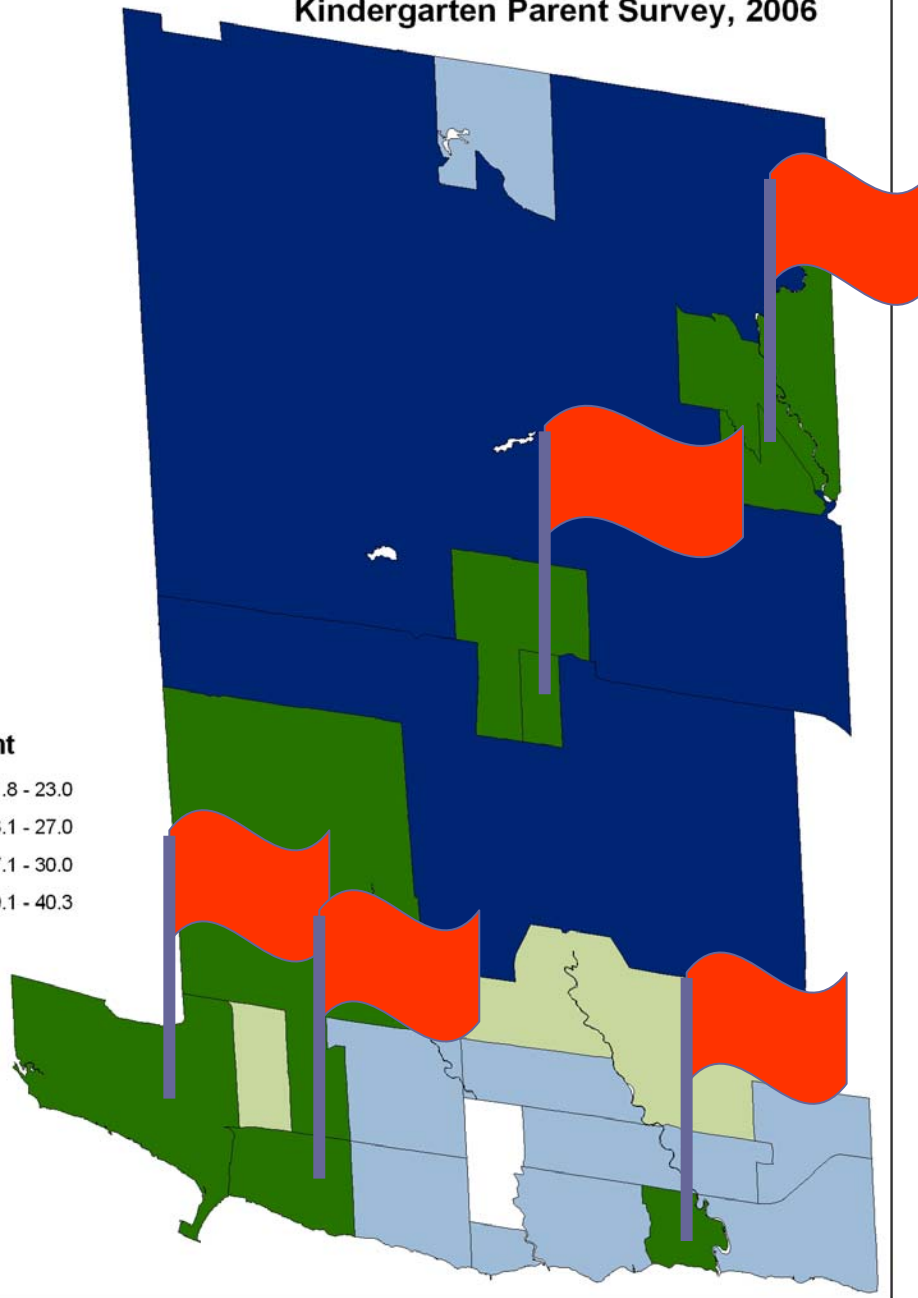
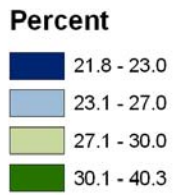
Percent of 5-Year Olds Exposed to Environmental Tobacco Smoke Halton Region, 2006



Data Source: Kindergarten Parent Survey, 2006



Percent of Families Participating in Children's Programs Kindergarten Parent Survey, 2006





THE EDI LOCALLY

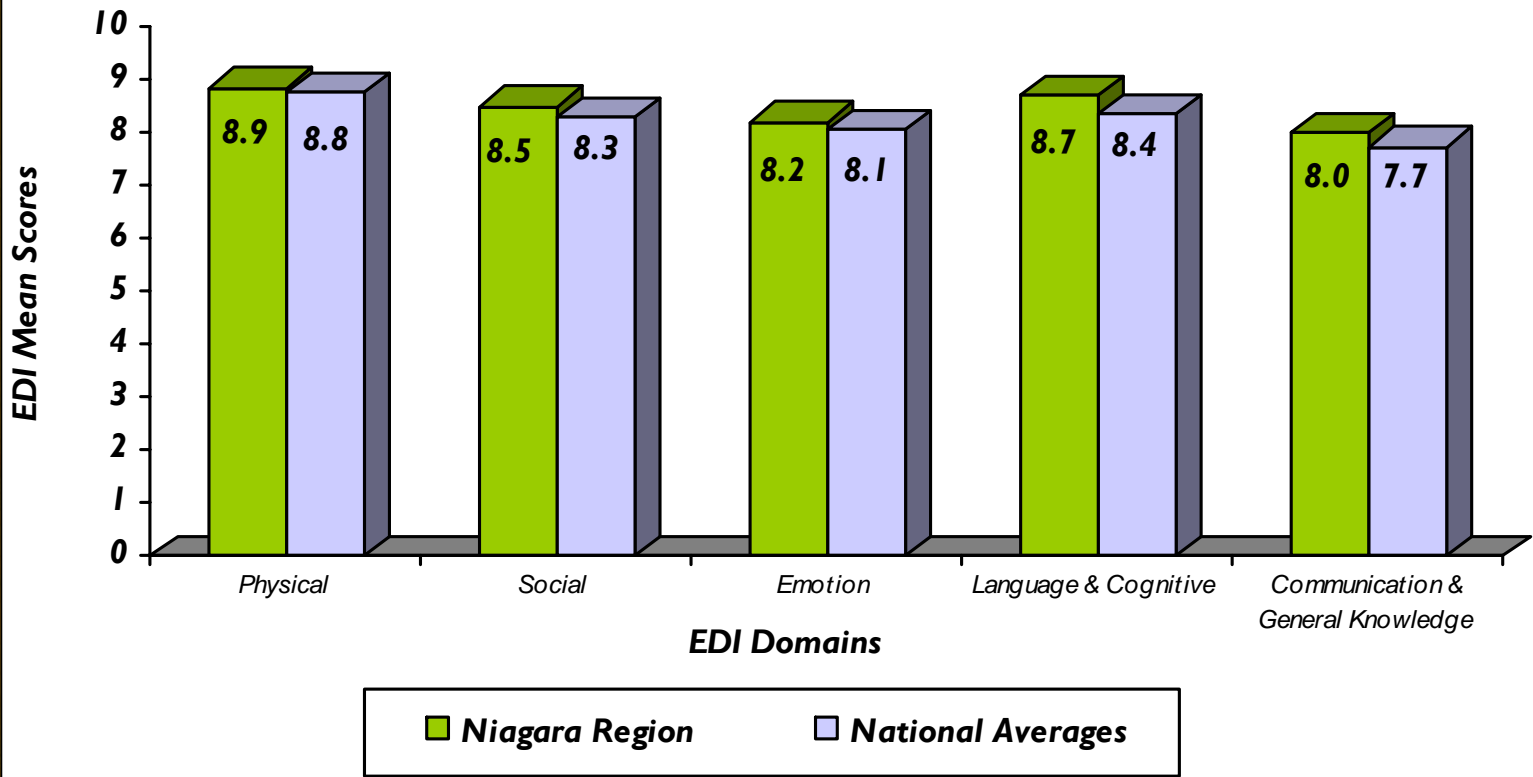
Data collection has included:

- Niagara Falls - 2001, 2003 & 2005, UEY
- Niagara Region - 2002 & 2005; UEY Niagara Falls & Ontario Early Years Niagara Region, and 2006; UEY Niagara Region

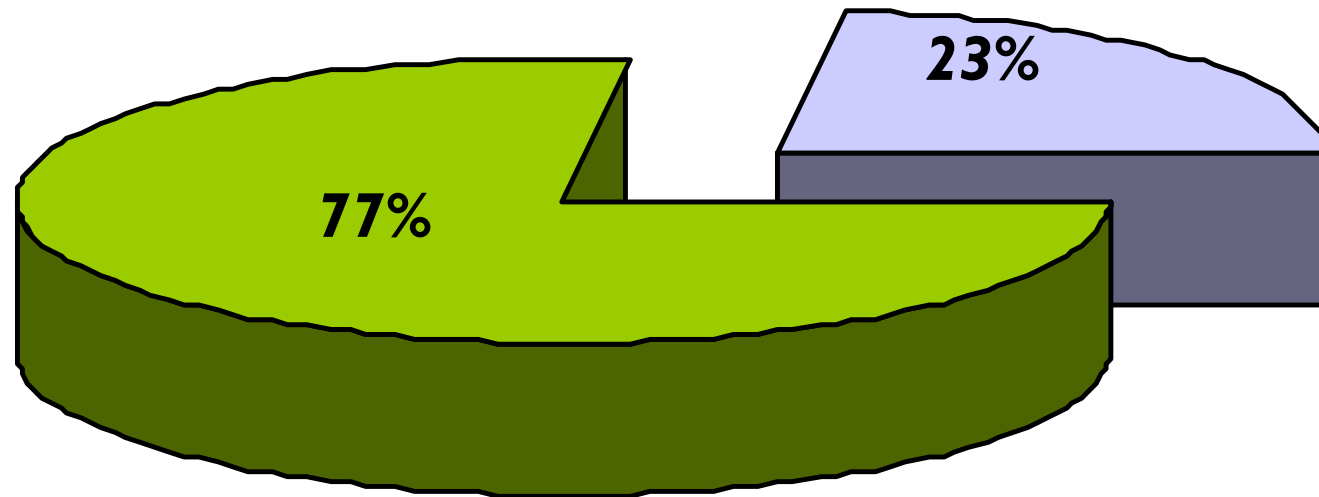
In early 2006, Senior Kindergarten teachers from across the Niagara Region and both School Boards implemented the EDI with over 3,000 of their students.

What follows are some of the results...

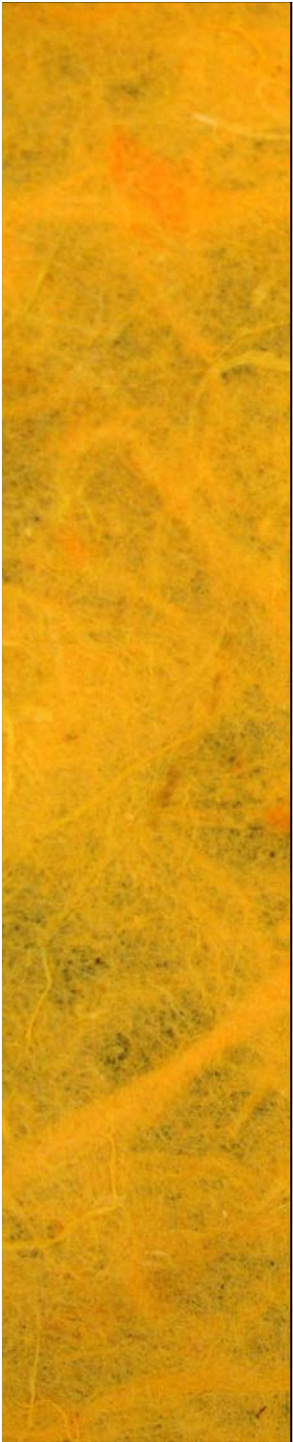
Niagara Region 2006: Comparison of Children's Mean Scores and the National Average



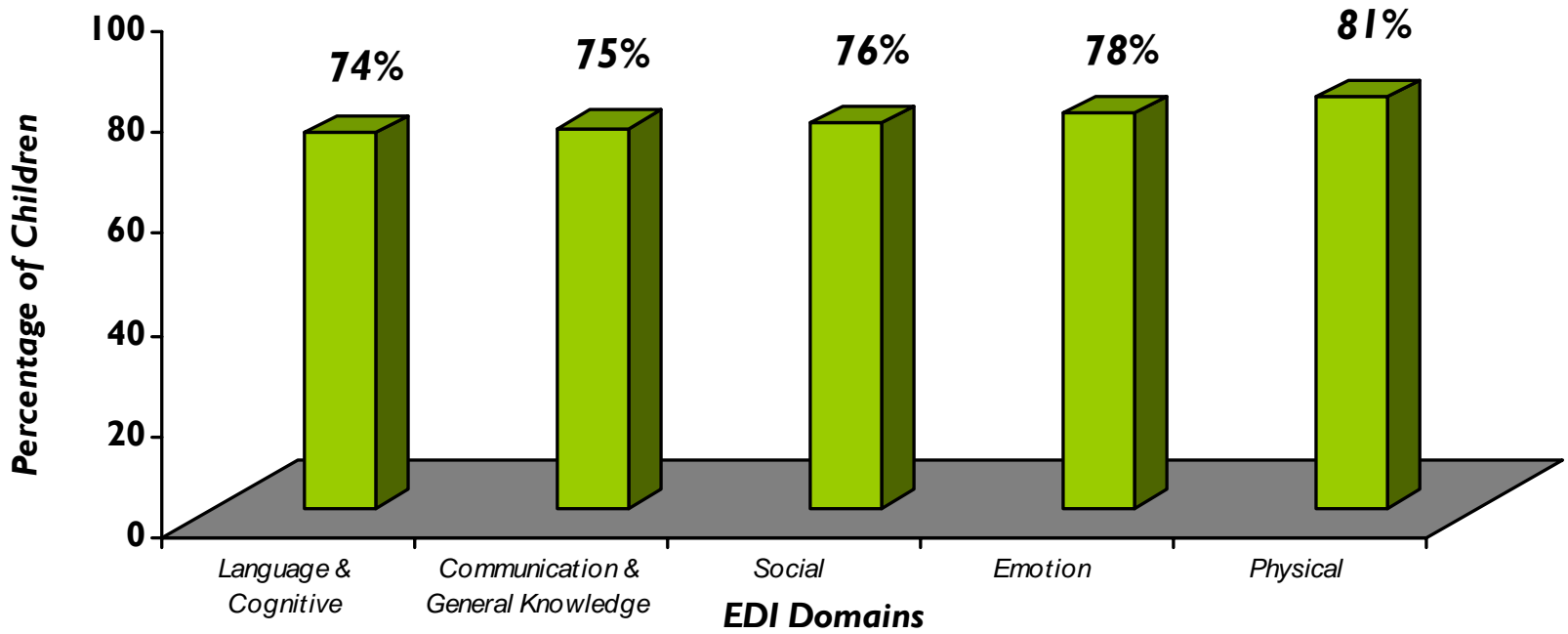
% of Children On Track and Not On Track for School



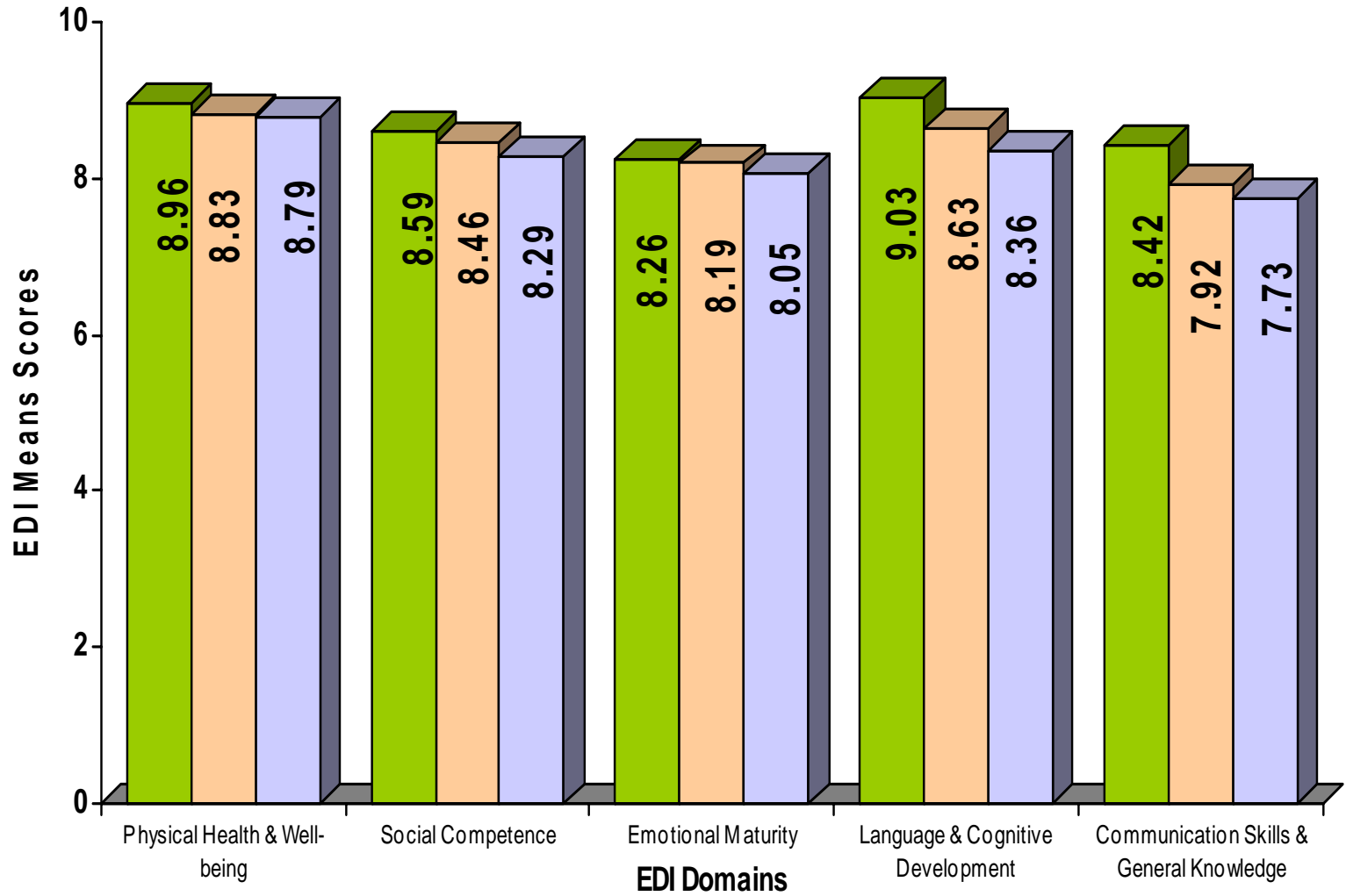
■ On Track ■ Not On Track



% of Children On Track for School Across the 5 Domains



Niagara Region 2006: Comparison of Children's Mean Scores who Attended Part-time
Preschool and the National Averages

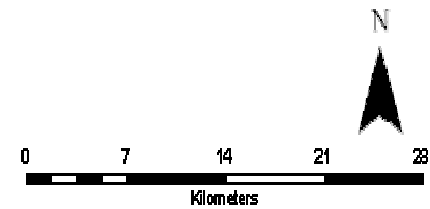


■ Preschool ■ No Preschool ■ National Averages

Municipalities of Niagara Region



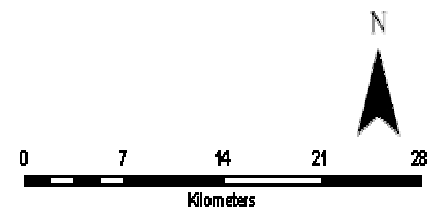
Data Sources
Base Map Features: Regional Municipality of Niagara,
PREP Unit, Public Health, 2006
Produced by: UEY & Offord, 2007
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Neighbourhoods in Municipalities of Niagara Region



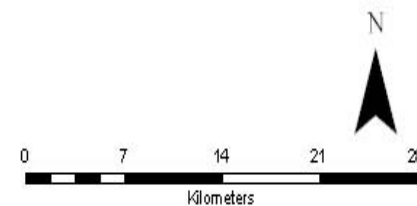
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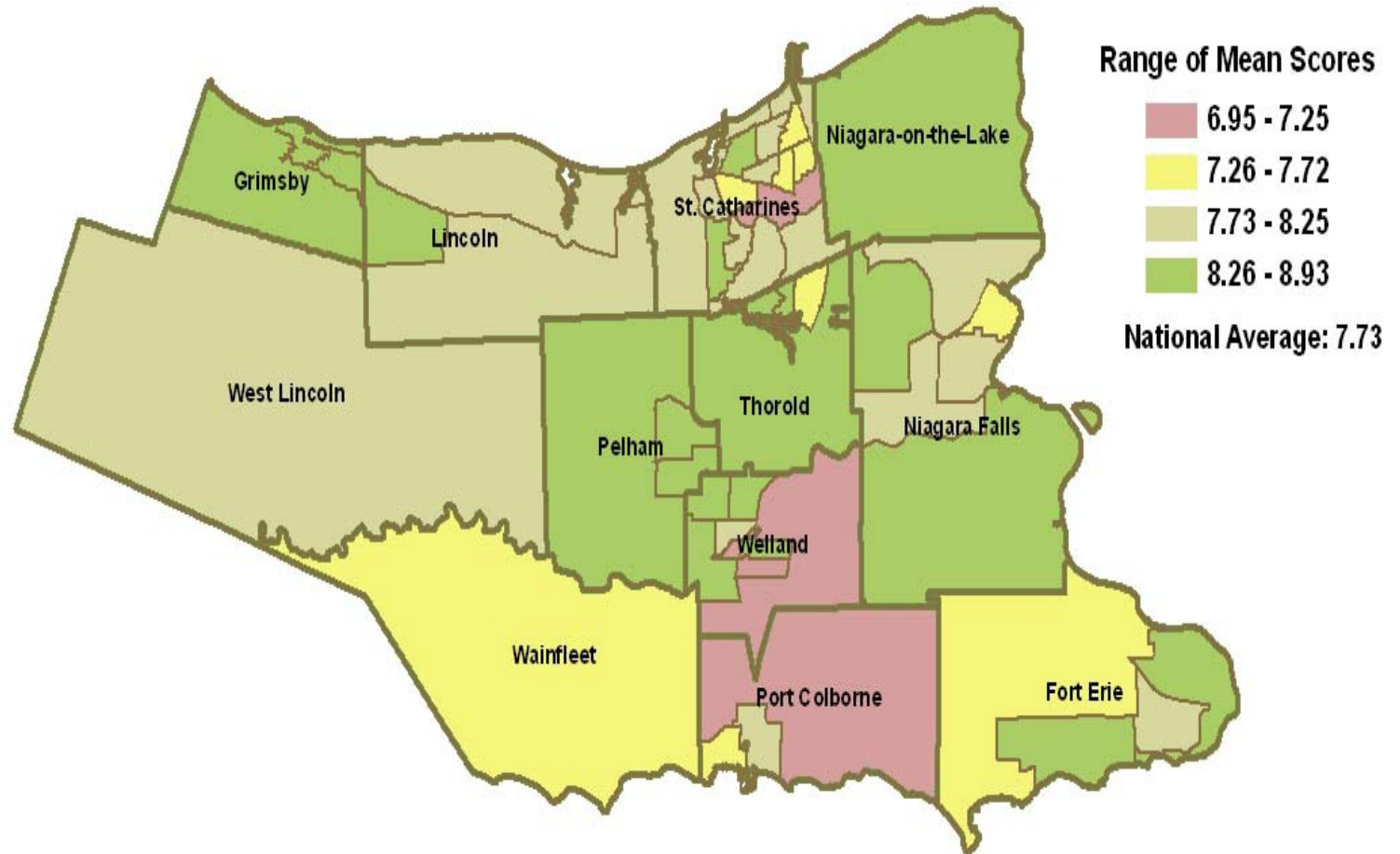
Amalgamated Neighbourhoods in Municipalities of Niagara Region



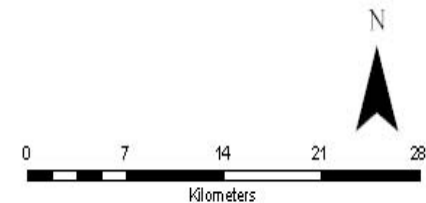
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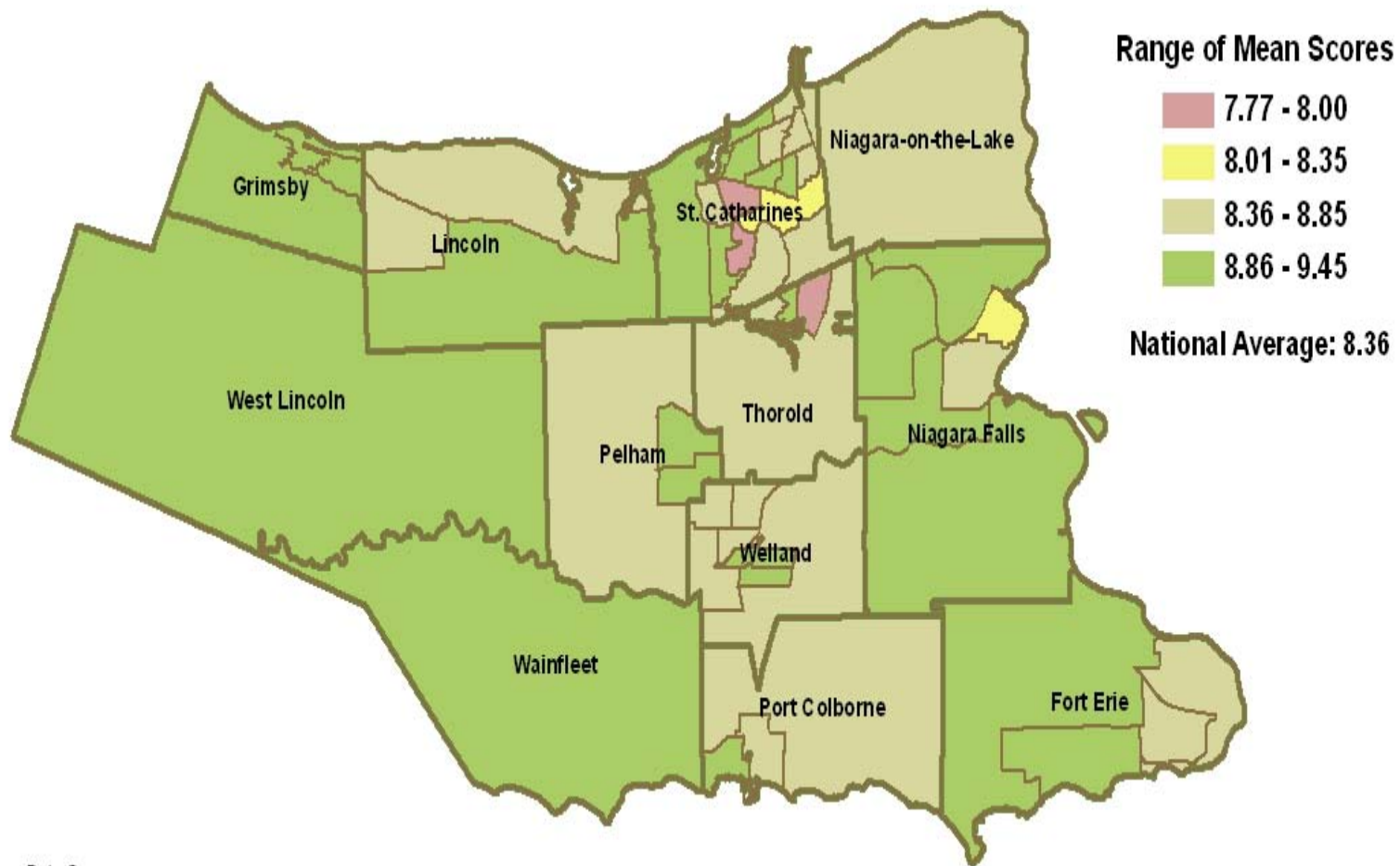
Communication Skills & General Knowledge Means by Neighbourhoods in Niagara Region



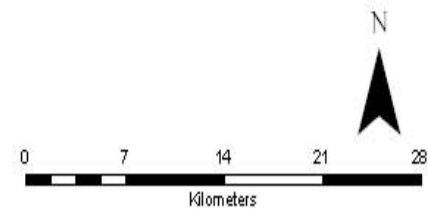
Data Sources
 EDI Data: UEY & Offord Centre for Child Studies, 2006
 Base Map Features: Regional Municipality of Niagara, PREP Unit, Public Health, 2006
 Amalgamated Neighbourhoods: : UEY & Neighbourhood Creation Project, 2006/07
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Language and Cognitive Development Means by Neighbourhoods in Niagara Region

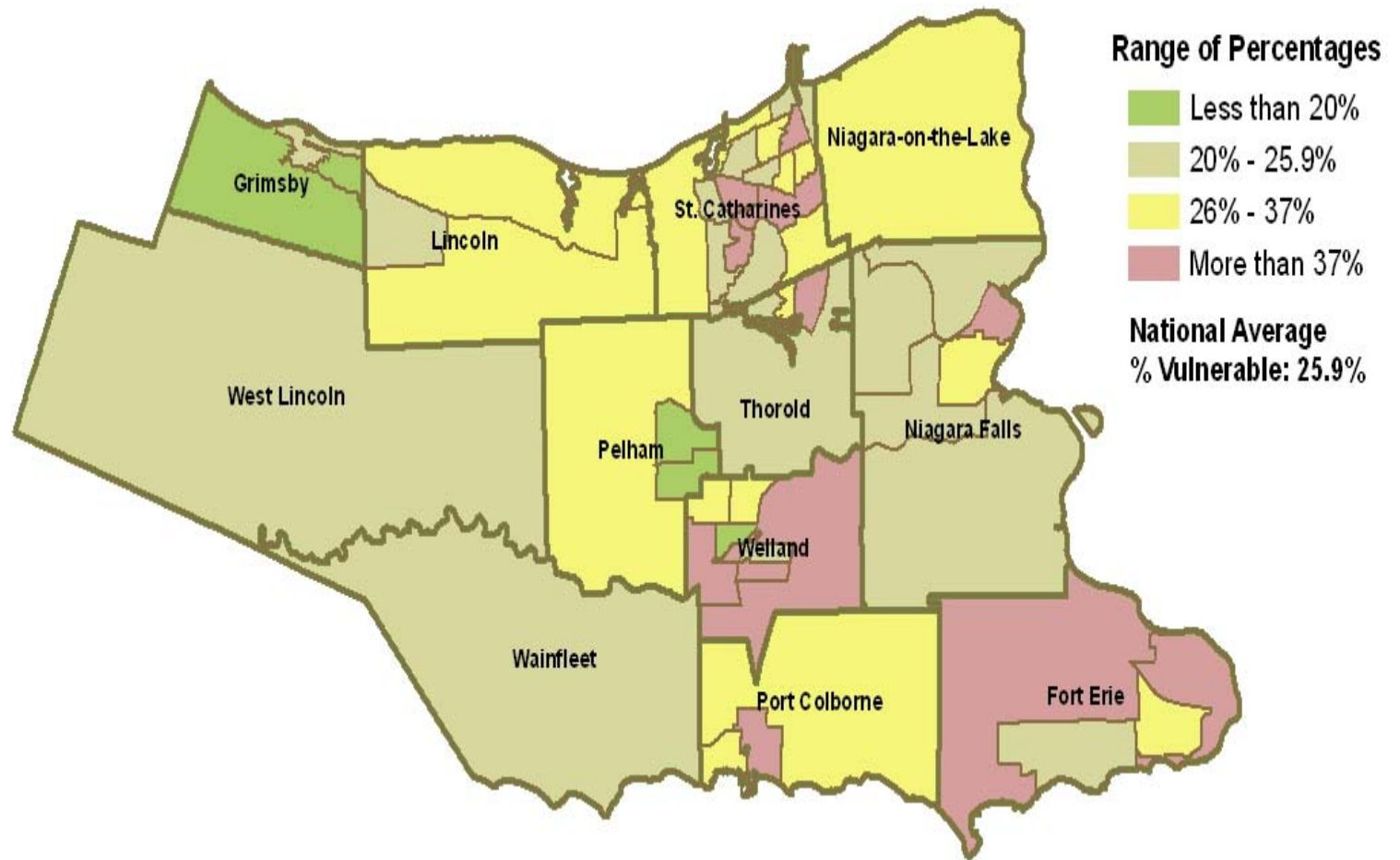


Data Sources
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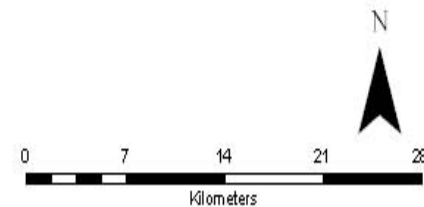


% of Vulnerable Children by Neighbourhoods in Niagara Region

(Vulnerable: Children who scored below the 10th percentile on one or more readiness to learn domains)

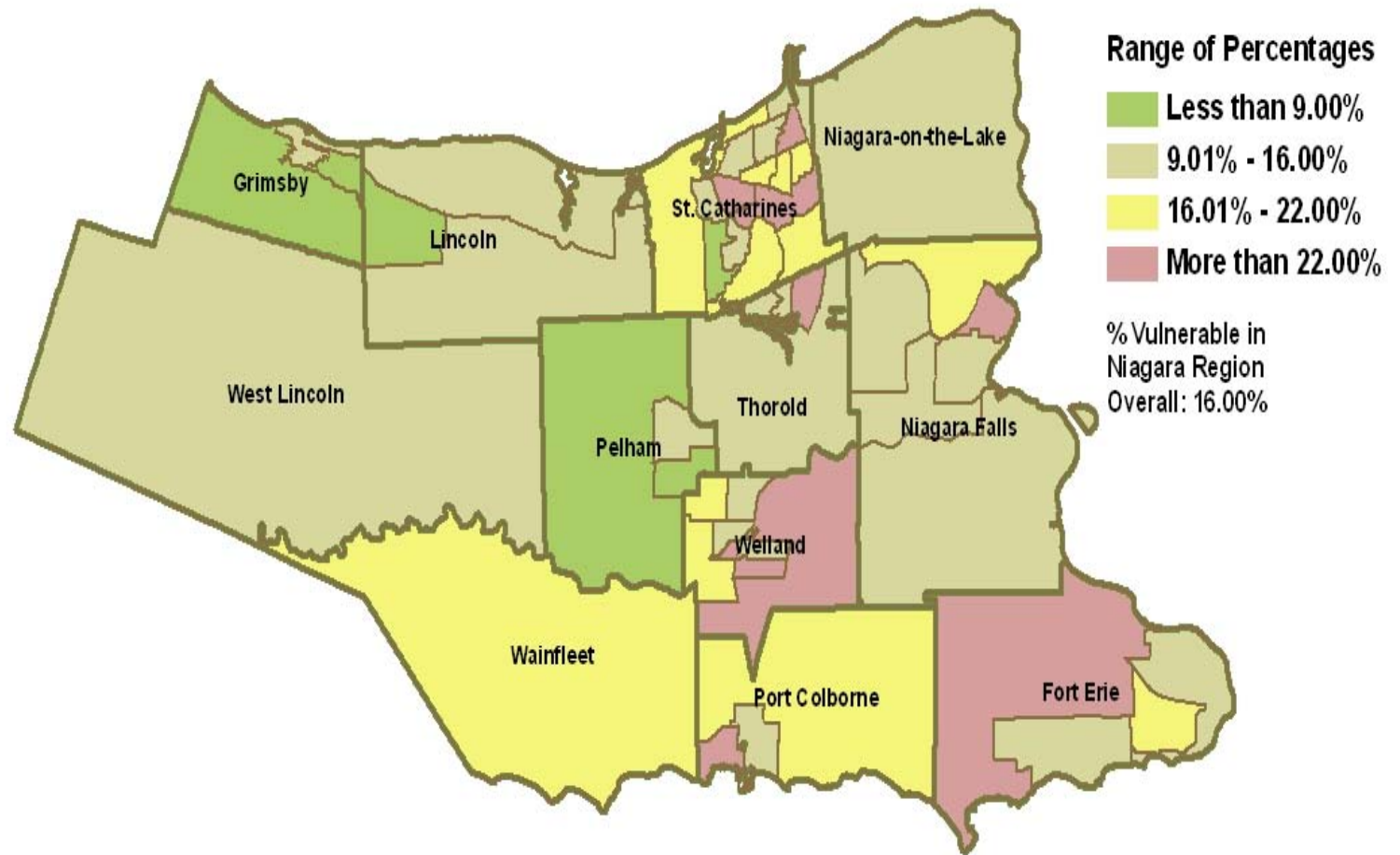


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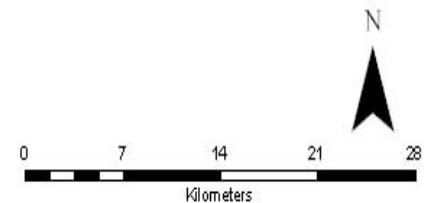


% Vulnerable in Communication Skills & General Knowledge by Neighbourhoods in Niagara Region

(Vulnerable: Children who scored below the 10th percentile)

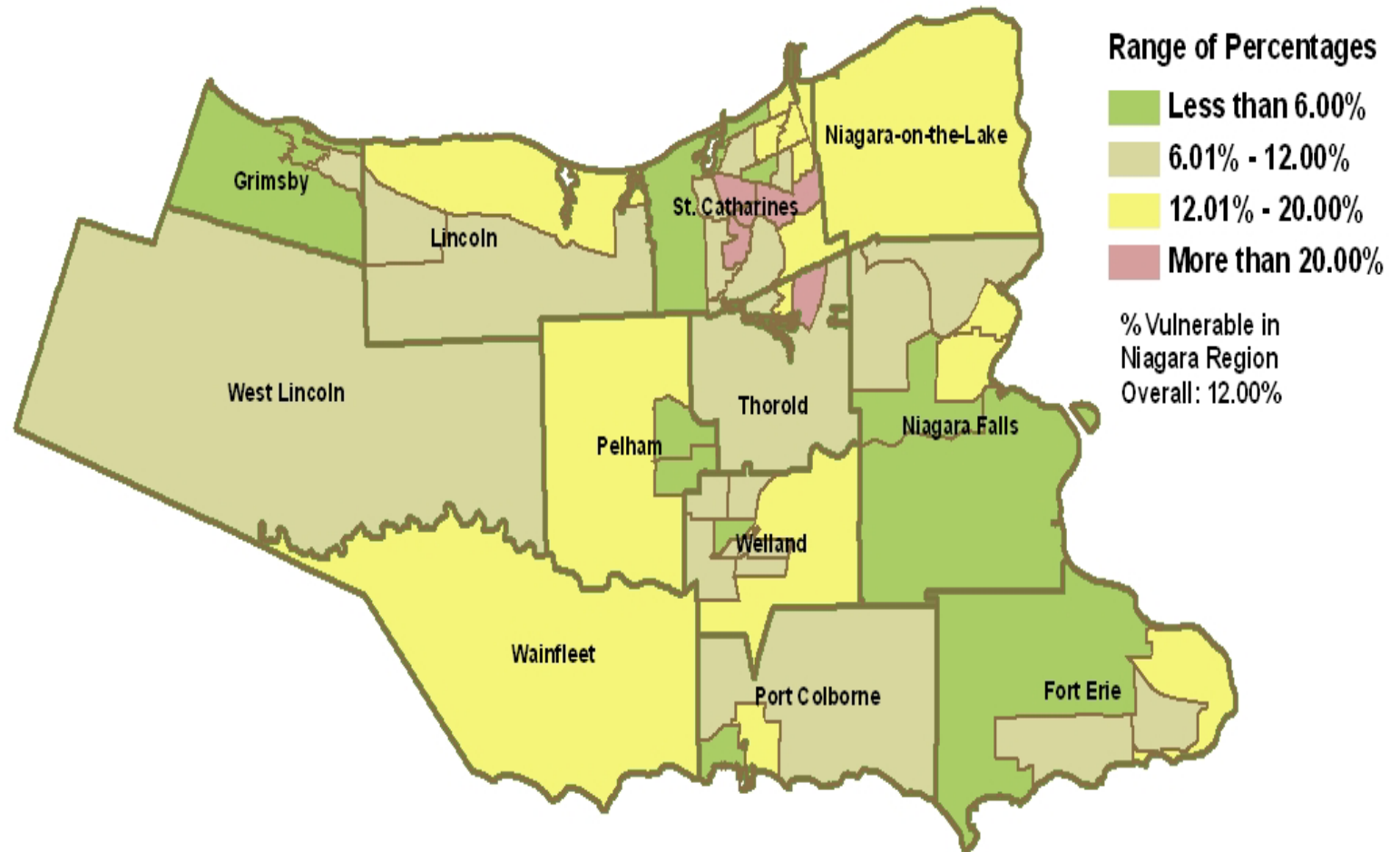


Data Sources
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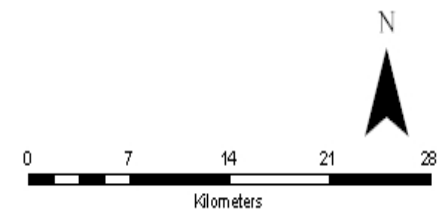


% Vulnerable in Language & Cognitive Development by Neighbourhoods in Niagara Region

(Vulnerable: Children who scored below the 10th percentile)

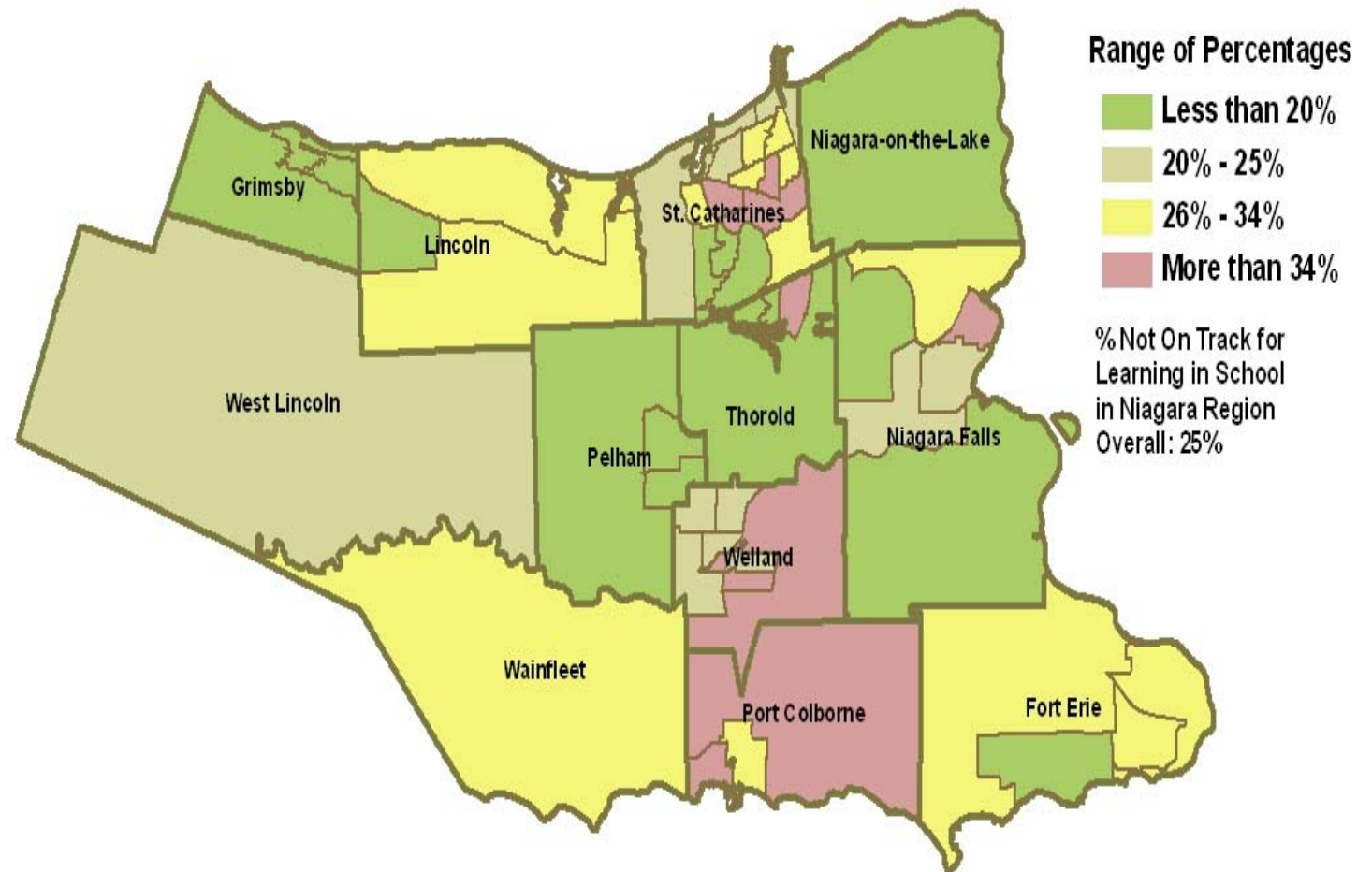


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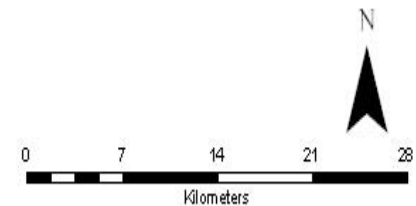


% Not On Track for Learning in School in Niagara Region - Communication Skills & General Knowledge

(Not On Track for Learning in School: Children who scored below the 25th percentile)

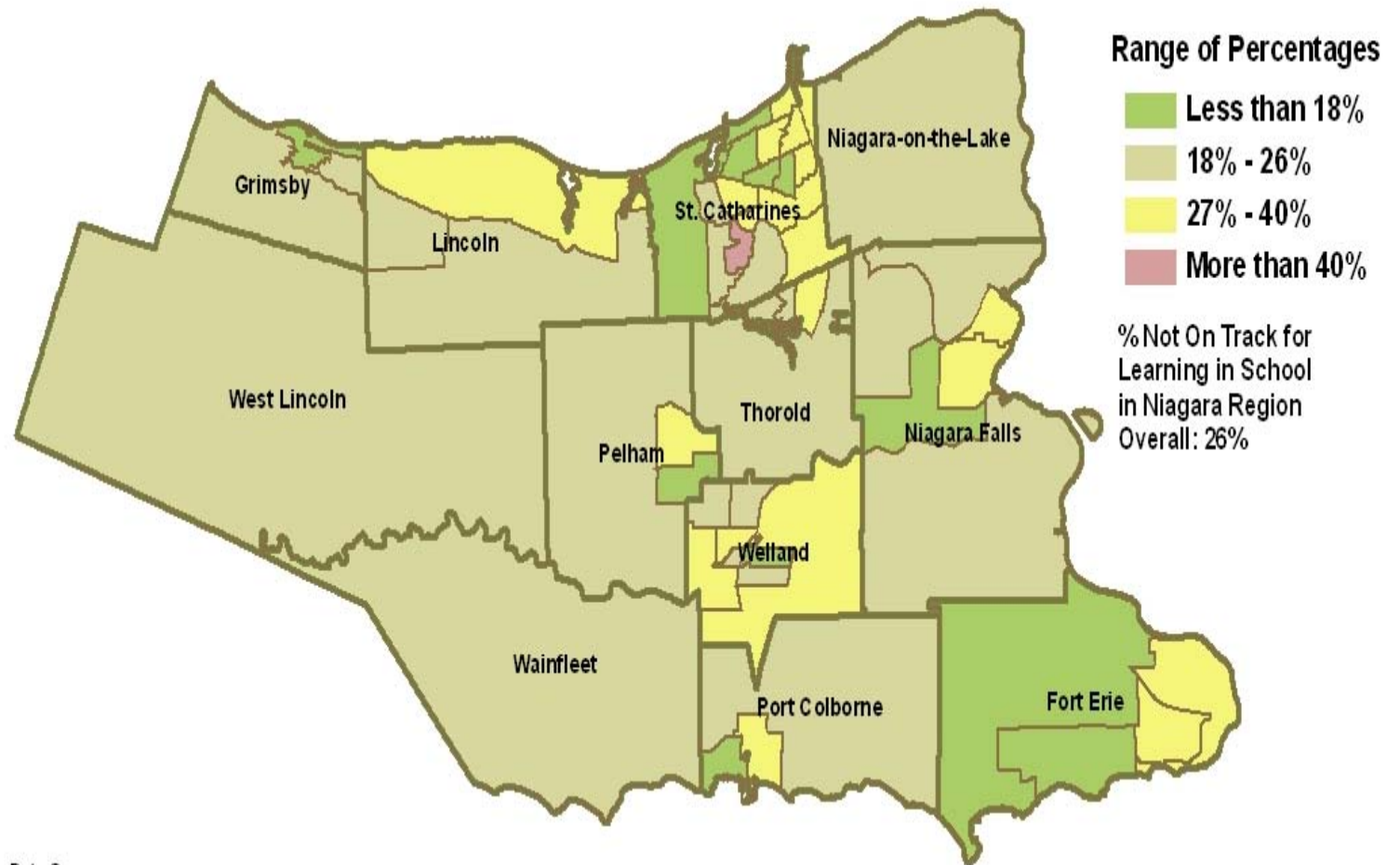


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Amalgamated Neighbourhoods: UEY & Neighbourhood Creation Project, 2006/07
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% Not On Track for Learning in School in Niagara Region - Language & Cognitive Development

(Not On Track for Learning in School: Children who scored below the 25th percentile)



Data Sources

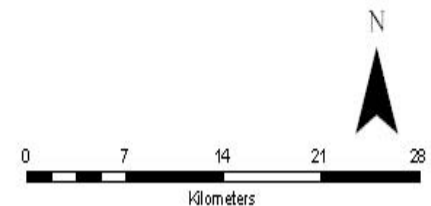
EDI Data: UEY & Offord Centre Centre for Child Studies, 2006

Base Map Features: Regional Municipality of Niagara, PREP Unit, Public Health, 2006

Amalgamated Neighbourhoods: UEY & Neighbourhood Creation Project, 2006/07

Produced by: UEY & Offord, 2007

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% Poor/Very Poor in Welland - Communication Skills & General Knowledge

□ Knowledge about the world

■ Ability to articulate clearly, without sound substitution

■ Ability to understand what is being said

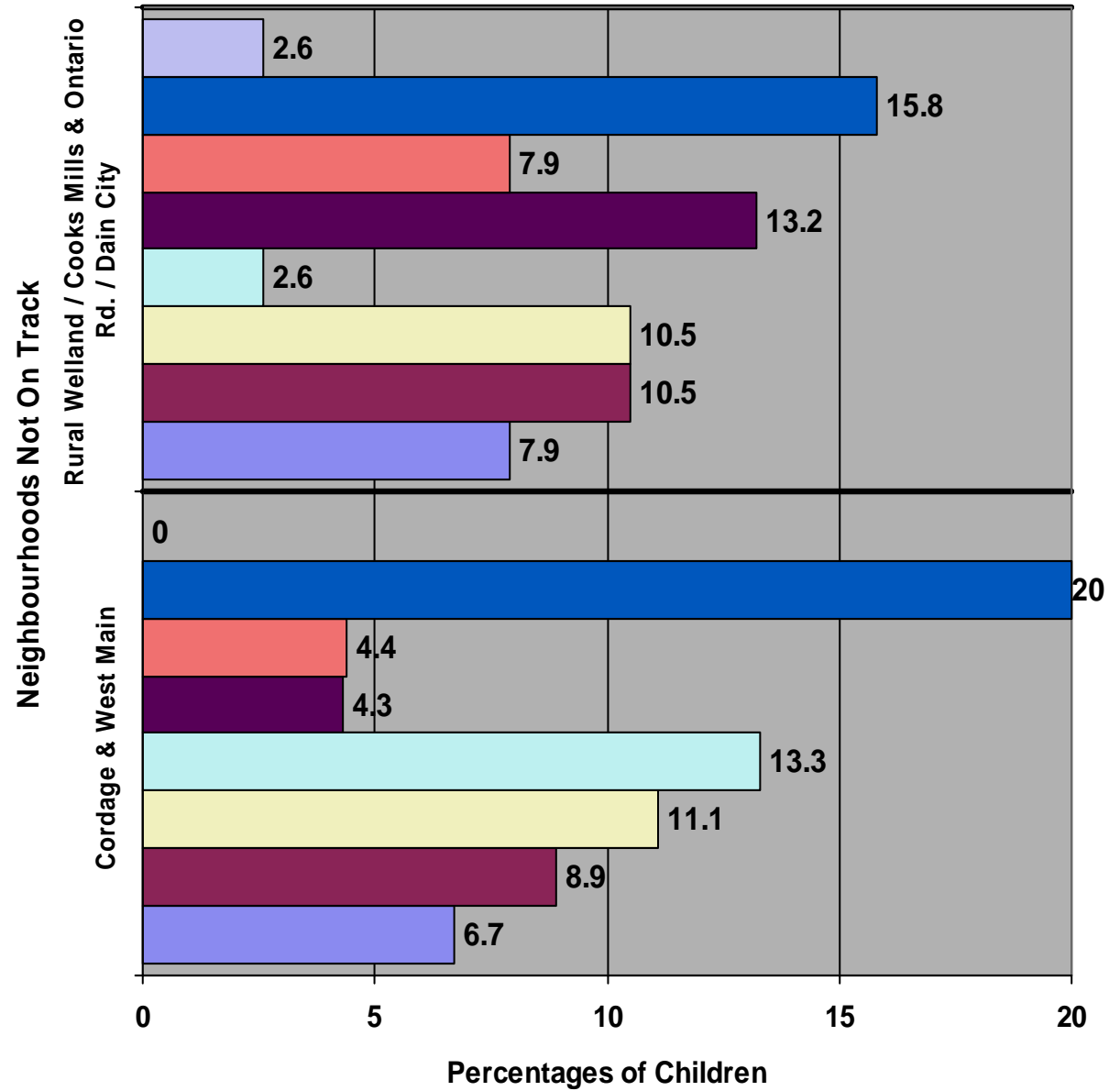
■ Ability to communicate own needs

□ Ability to take part in imaginative play

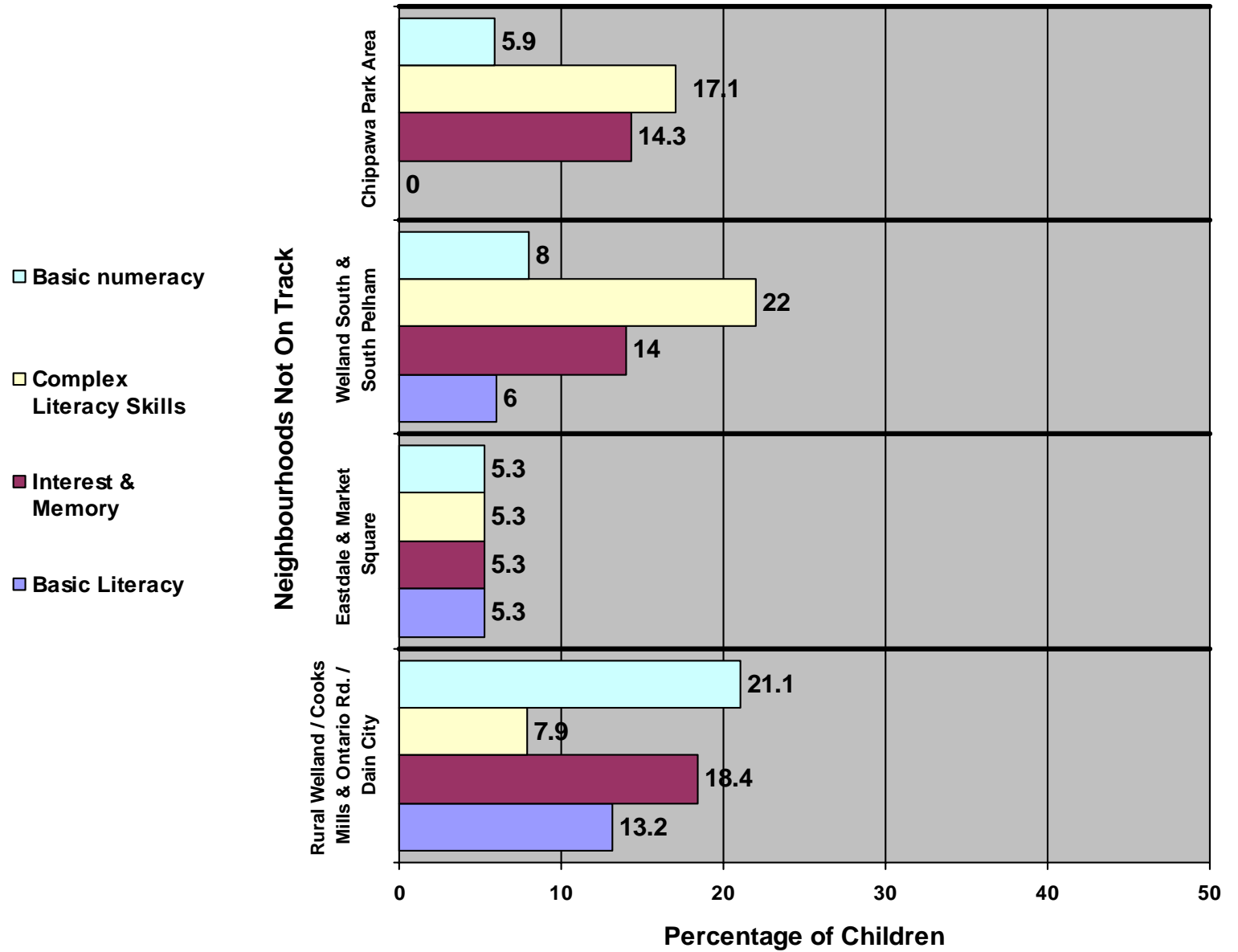
□ Ability to tell a story

■ Ability to listen in English

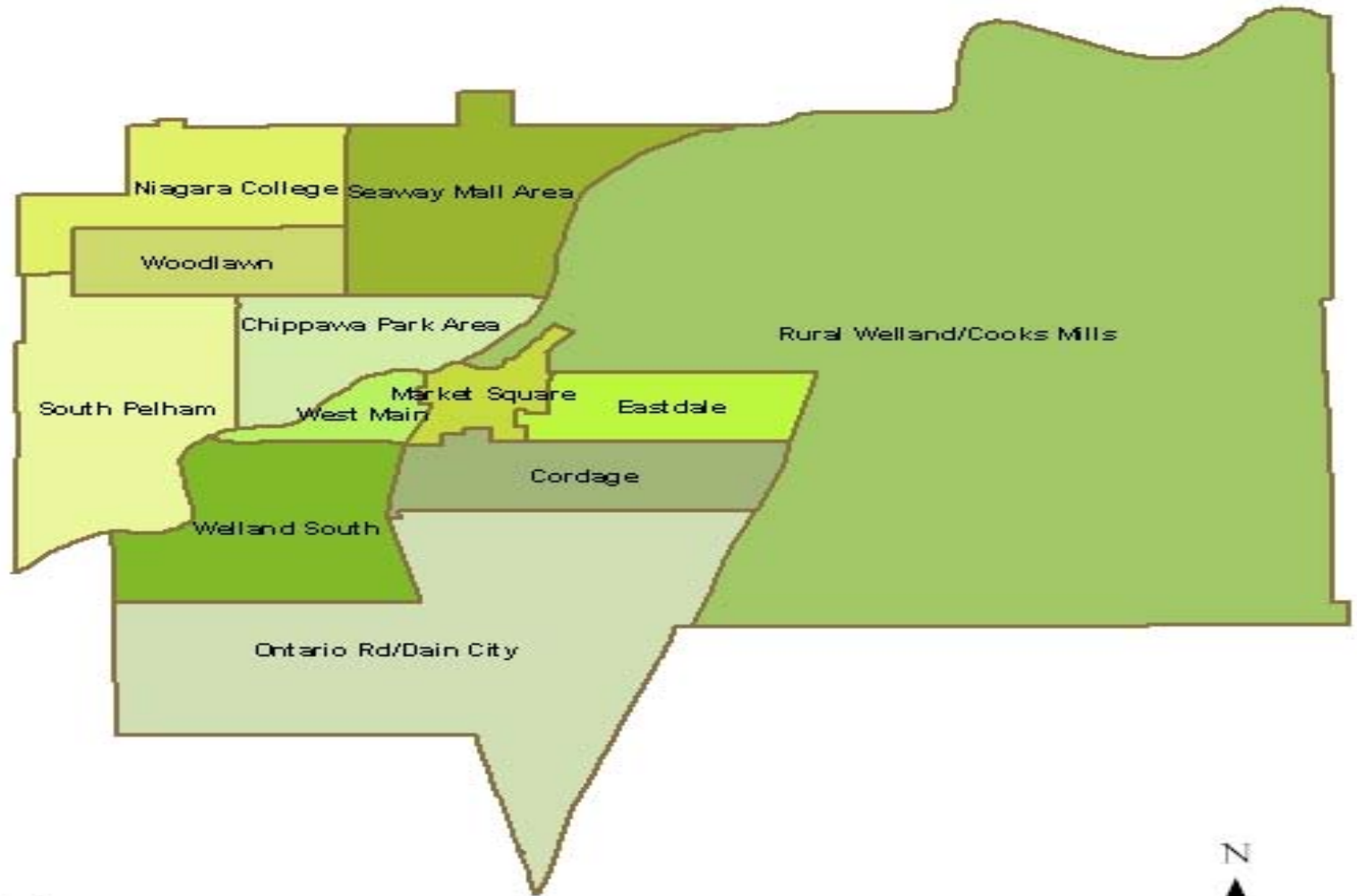
□ Use language effectively in English



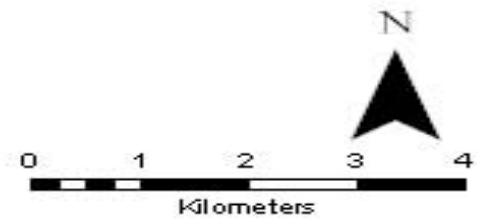
% Not on Track in Welland - Language & Cognitive Development



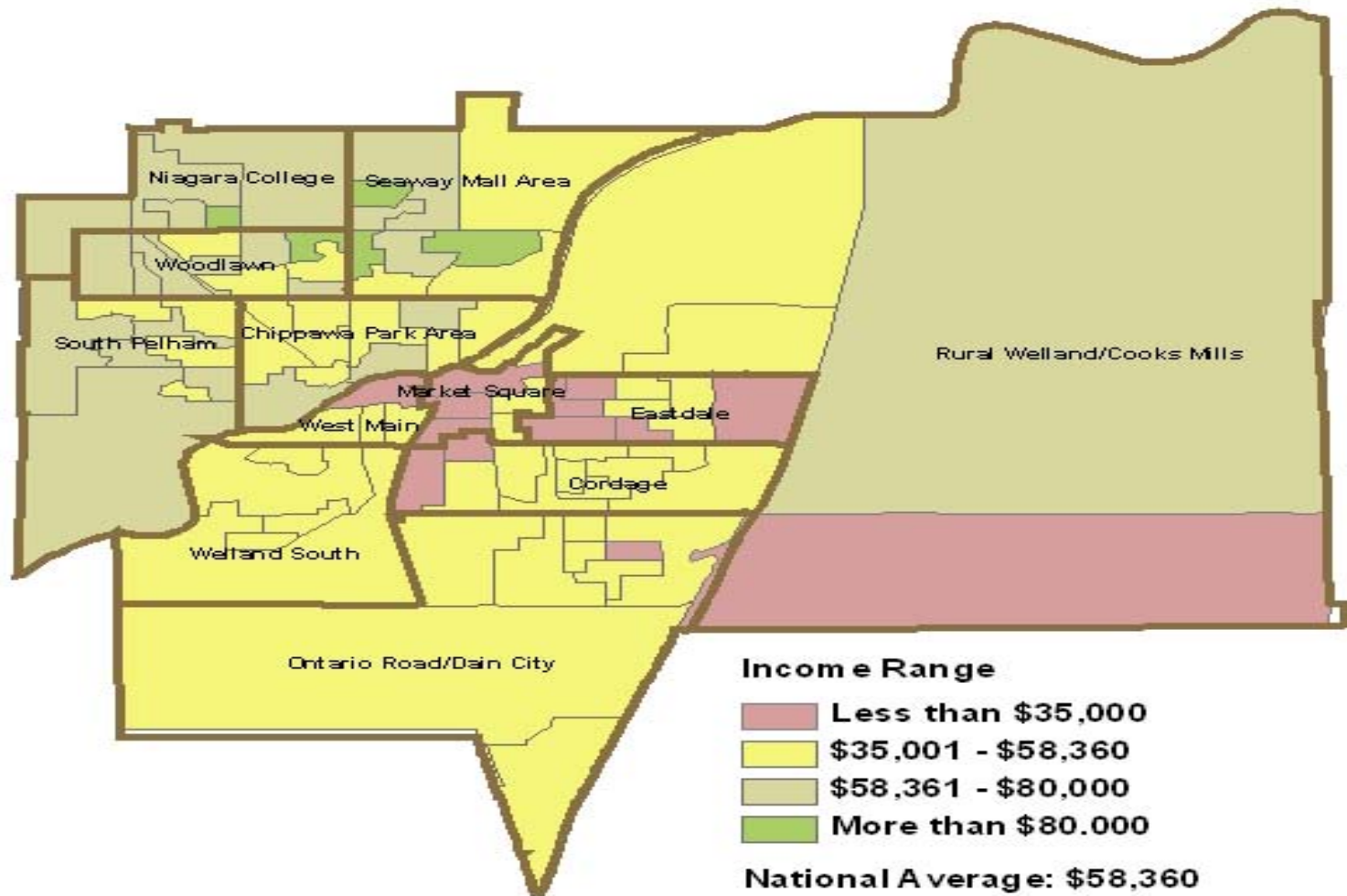
City of Welland



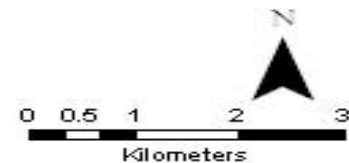
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Base Map Features: Regional Municipality of Niagara,
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Neighbourhoods: : UEY & Neighbourhood Creation Project, 2006/07
Produced by: UEY & Offord, 2007
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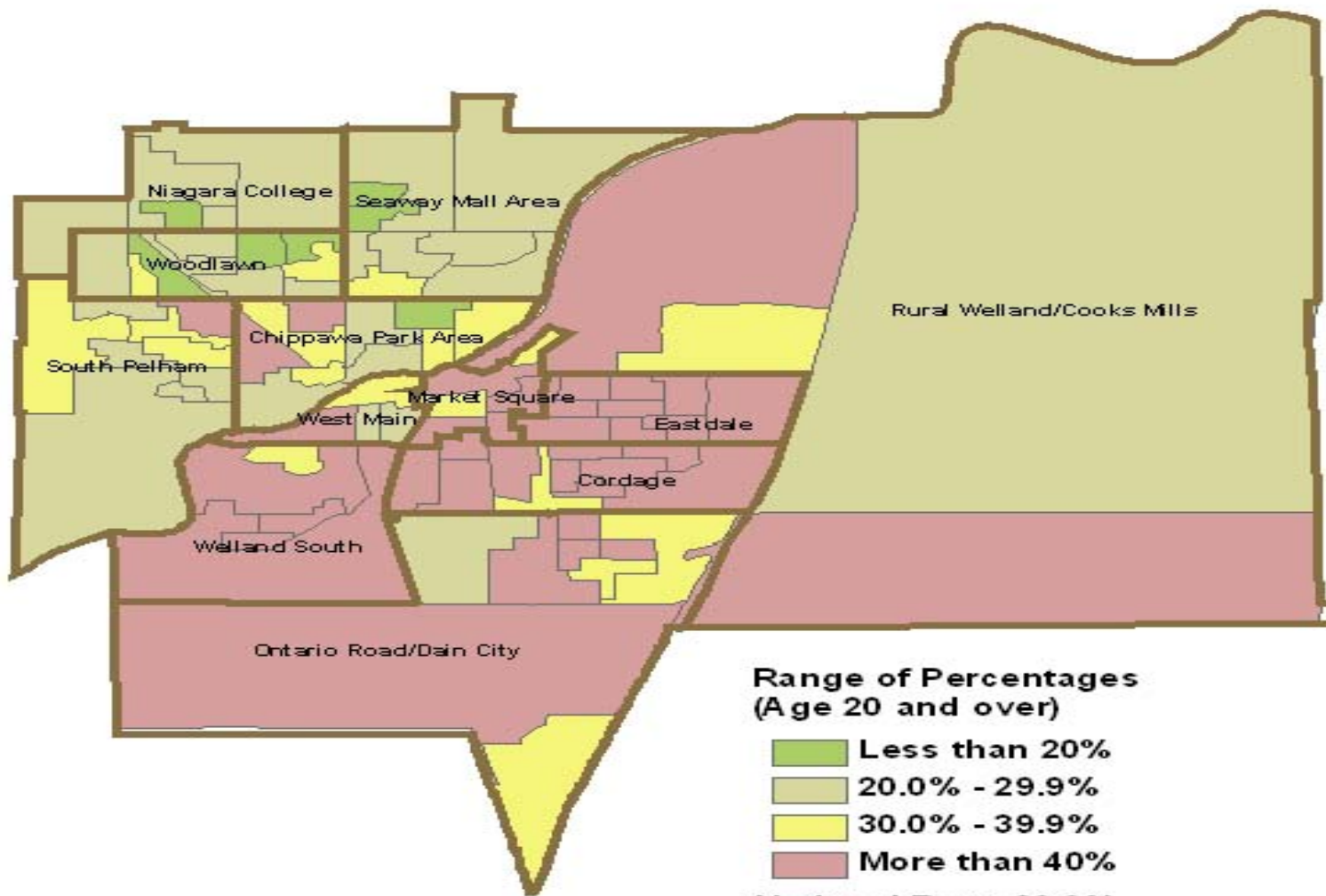
Average Household Income in Welland



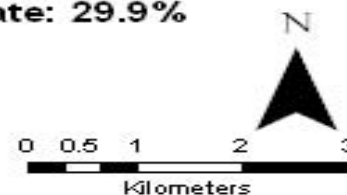
Data Sources:
Based on the Census 2001, Statistics Canada
Base Map Features: Regional Municipality of Niagara,
PREP Unit, Public Health, 2006
Neighborhoods: U.E.Y. & Neighborhood Creative Project, 2006/07
Produced by: U.E.Y. & Oxford, 2007
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% of Welland Population without High School



Data Sources:
 Based on the Census 2001, Statistics Canada
 Base Map Features: Regional Municipality of Niagara,
 P.R.E.P. Unit, Public Health, 2006
 Neighbourhoods: U.E.Y. & Neighbourhood Creation Project, 2006/07
 Produced by: U.E.Y. & Oxford, 2007
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Where do we go from here?

- 2007 Community Mapping Study
 - Compare EDI from 2002, 2005, 2006
 - Neighbourhood socioeconomic data
- 2007 Community Report
 - Analysis of parent interviews, direct assessments and community factors vis-a-vis 'school readiness'
- 2008 Community Report
 - Compare EDI from 2002, 2005, 2006, 2008
 - Compare neighbourhood data 2005, 2006 & 2008
- Continue to look into the “why” of low EDI at neighbourhood level
- Share information with community key stakeholders to improve 'school readiness' of children



DISCUSSION

- Any questions?
- How do you anticipate being able to use the information?
- What additional data would you be interested in?
- Who else might benefit from this information and how might they use it?

Please complete an evaluation.

Thank you for inviting us!