

UEY - Niagara Region Mapping Study & PIDACS

“The quality and capacity of our future population depends on what we do now to support early child development.”

Fraser Mustard, Founder & Chair Emeritus, Council for Early Child Development

GLORY RESSLER & TIFFANY GARTNER

Understanding the Early Years

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August 26, 2008

Region of Niagara

eccdc

early childhood community development centre

Understanding the Early Years

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

AGENDA

- EDI Overview
- Regional, Municipal & Neighbourhood EDI Results
- Socioeconomic Factors
- Community Resources
- Highlights of Surprising Results
- PIDACS
- Next Steps

What is the Early Development Instrument (EDI)?

- Developed by Dr. Dan Offord and Dr. Magdalena Janus at the Offord Centre for Child Studies, McMaster University
- Profiles early child development outcomes or “readiness to learn”



Purpose of the EDI

- Measure 'readiness to learn in school'
- Report on groups of children
- Monitor groups over time
- Predict elementary school success

The Vision

- Take stock of how well communities are doing for young children
- Need population-based data
- “No data, no problem, no action”

~ Dr. Magdalena Janus

The Goals

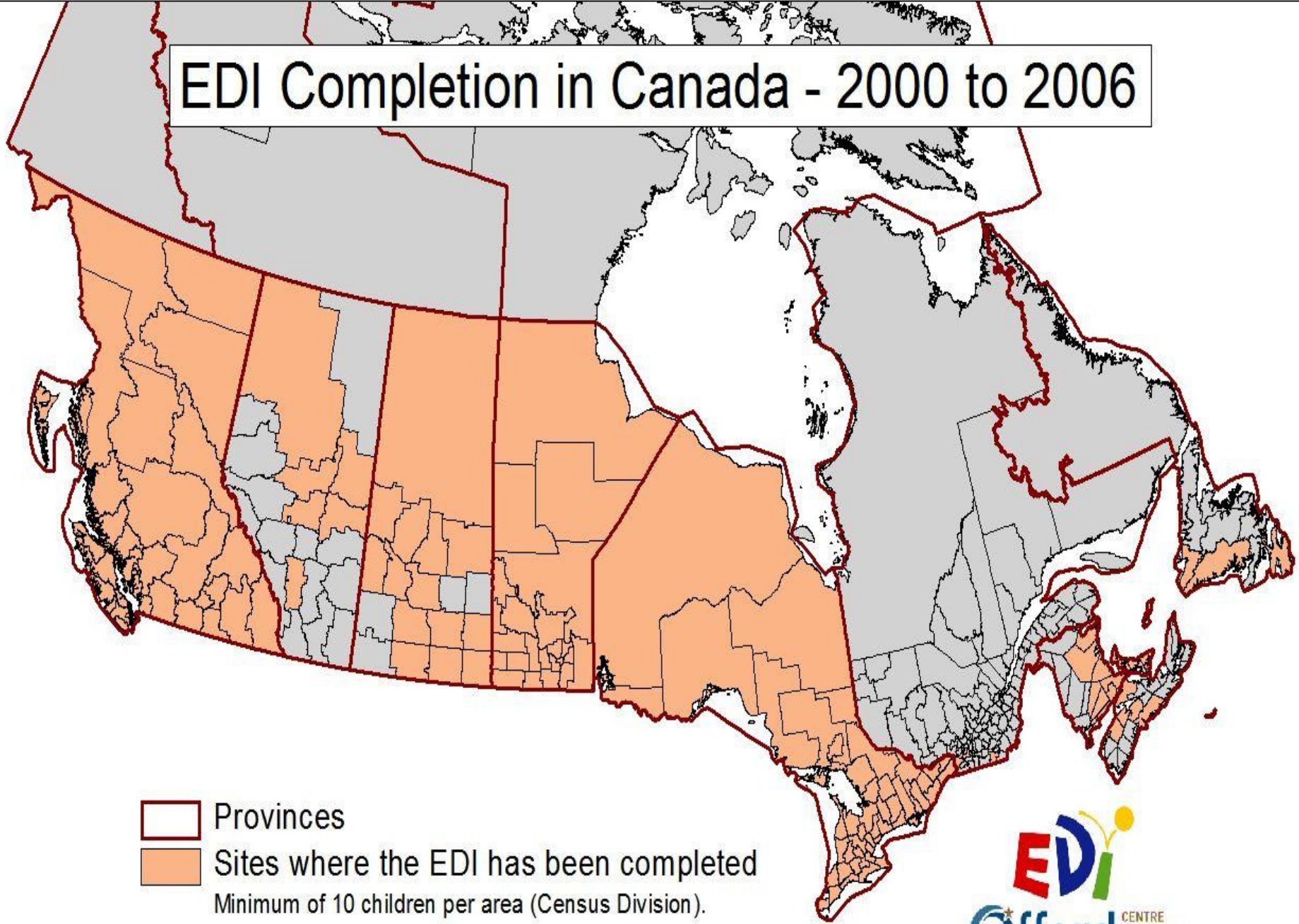
- Give communities a set of tangible and interpretable results to:
 - Monitor populations of children over time
 - Plan action
 - Evaluate community initiatives
 - Provide data for policy research and decision-making
 - Make a difference



The Perspective

A large number of children at a small risk for school failure may generate a much greater burden of suffering than a small number of children with a high risk.

(Based on Rose 1992, Offord et al. 1998)

EDI Completion in Canada - 2000 to 2006



-  Provinces
-  Sites where the EDI has been completed
Minimum of 10 children per area (Census Division).



EDI is:

- a survey
- a mobilisation tool
- a monitoring tool

EDI is not:

- an individual assessment
- a prescription for action
- perfect

What is School Readiness?

- ◆ Based on the concept of developmental health
- ◆ Context of early experiences
- ◆ Reflects developmental outcomes and milestones achieved during the first five years of life
- ◆ *A measurable* holistic concept involving several developmental areas

What is School Readiness?

Refers to the child's ability to meet the task demands of school, such as:

- ◆ being comfortable exploring and asking questions,
- ◆ listening to the teacher,
- ◆ playing and working with other children,
- ◆ remembering and following rules.

Readiness to Learn Domains

1. Physical Health & Well-being
2. Social Competence
3. Emotional Maturity
4. Language & Cognitive Development
5. Communication Skills & General Knowledge



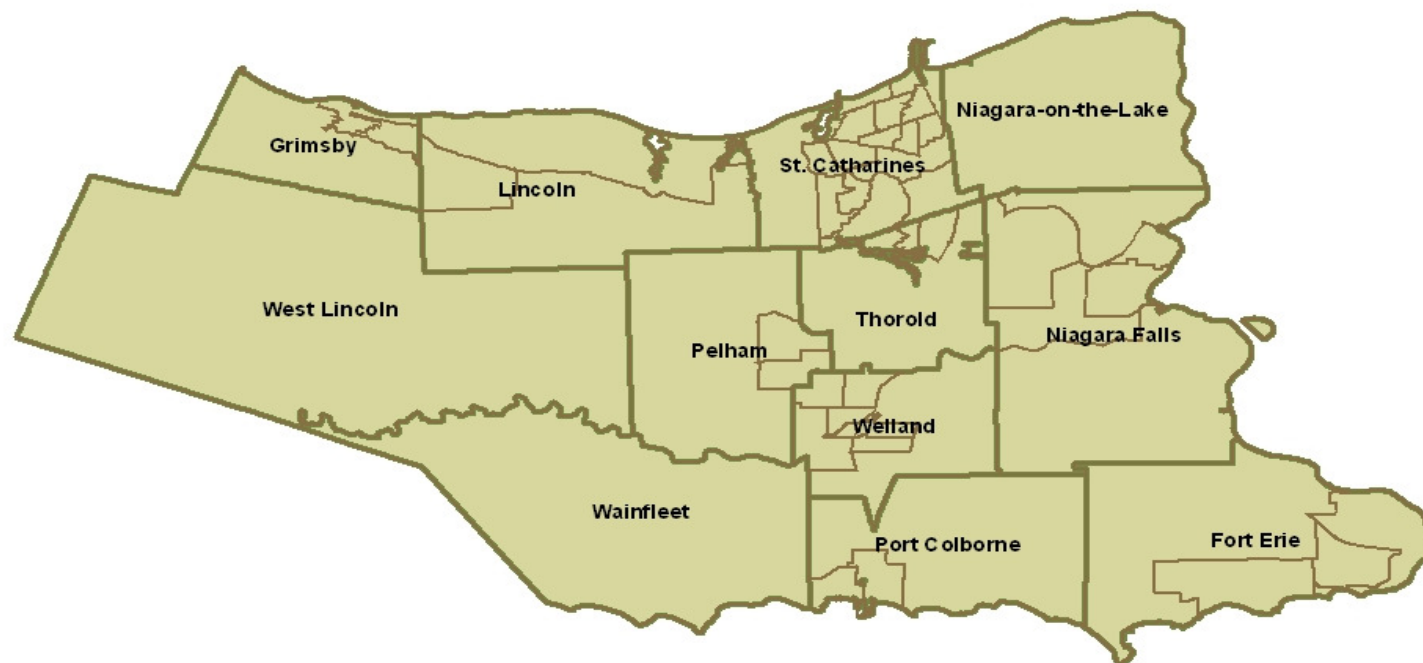
Regional, Municipal & Neighbourhood Results

Results are organized into:

- 12 Municipalities
- 74 neighbourhoods (created in 2005 by DAC) however 50 amalgamated EDI neighbourhoods reported on (due to required sample sizes)

Niagara Region Municipalities & Neighbourhoods

Amalgamated Neighbourhoods in Municipalities of Niagara Region

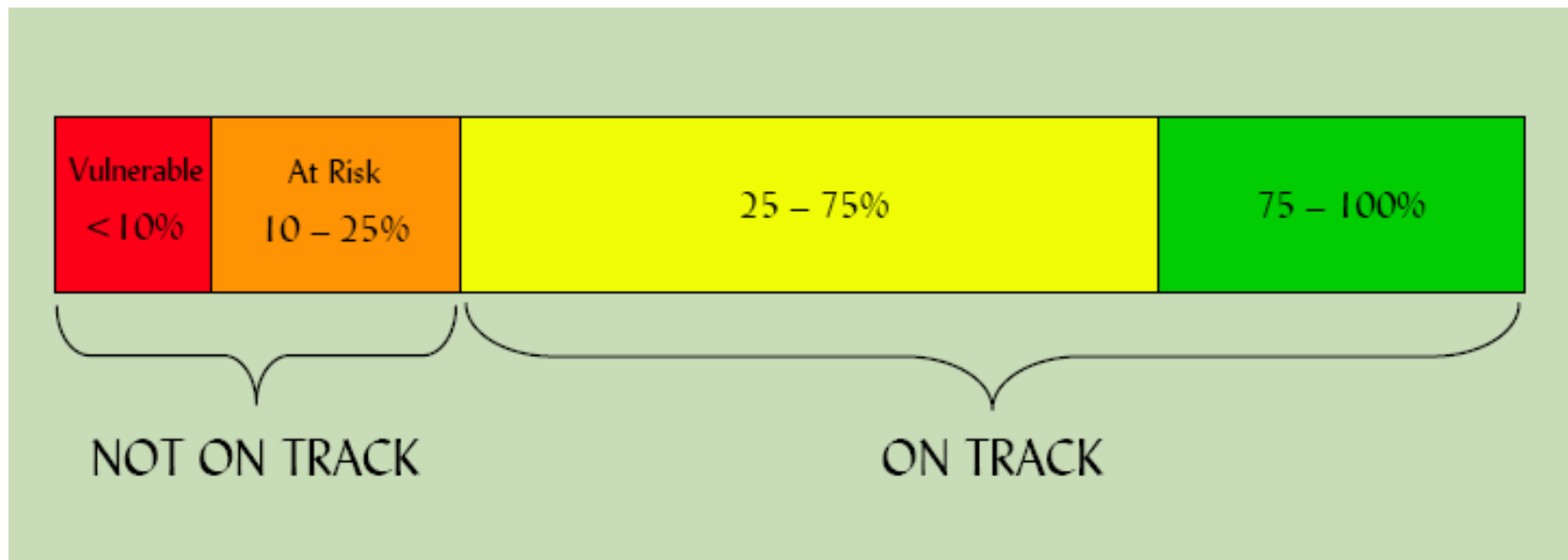


Data Sources:
Base Map Features: Statistics Canada tabulation(s) from 2001 Census
Amalgamated Neighbourhoods: Ontario Early Years Niagara Region & UEY, 2007
Produced by: UEY & Offord, 2007
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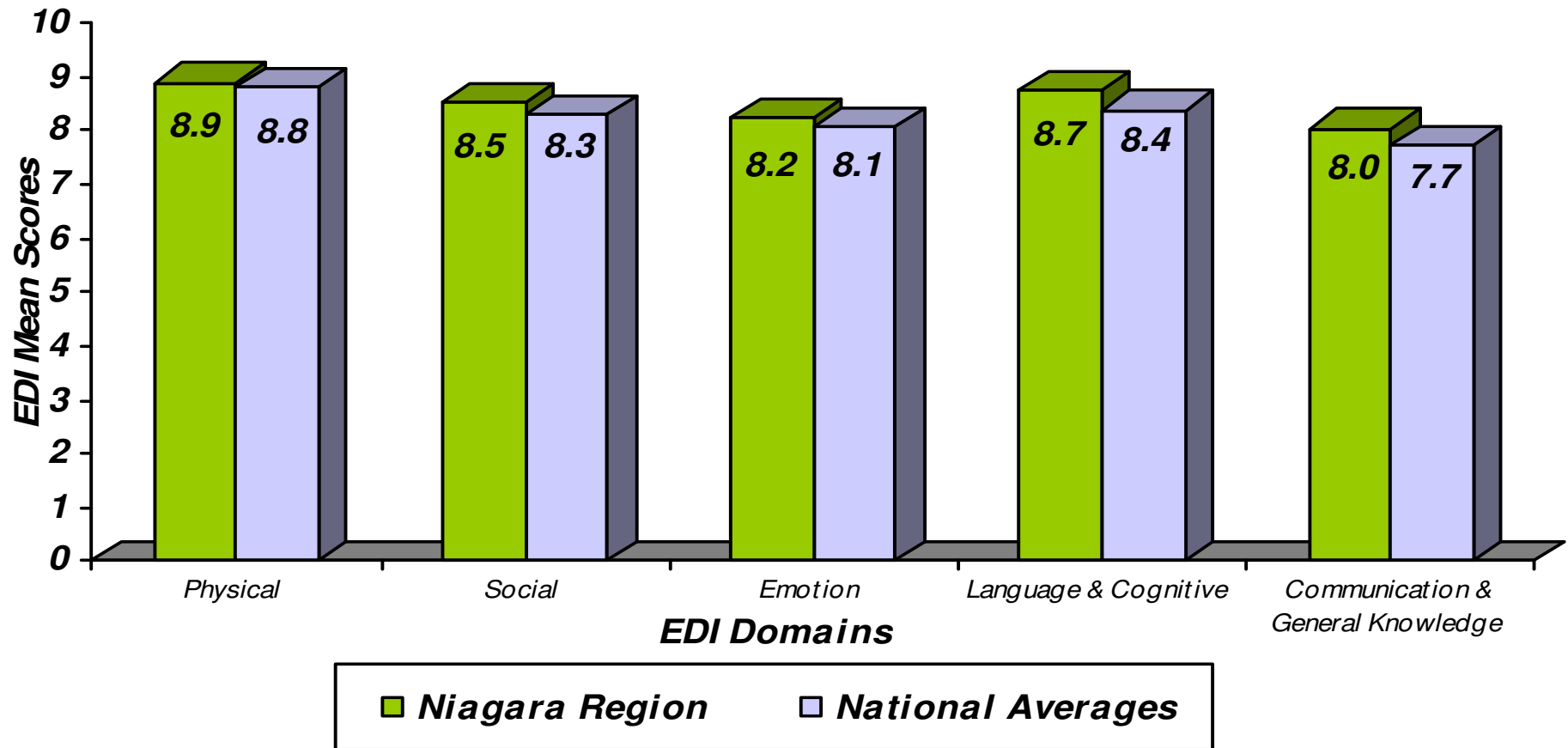


How do we look at EDI results?

- Mean Score by Domain
- At Risk
- Vulnerable
- On Track & Not on Track
- Sub-domain analyses



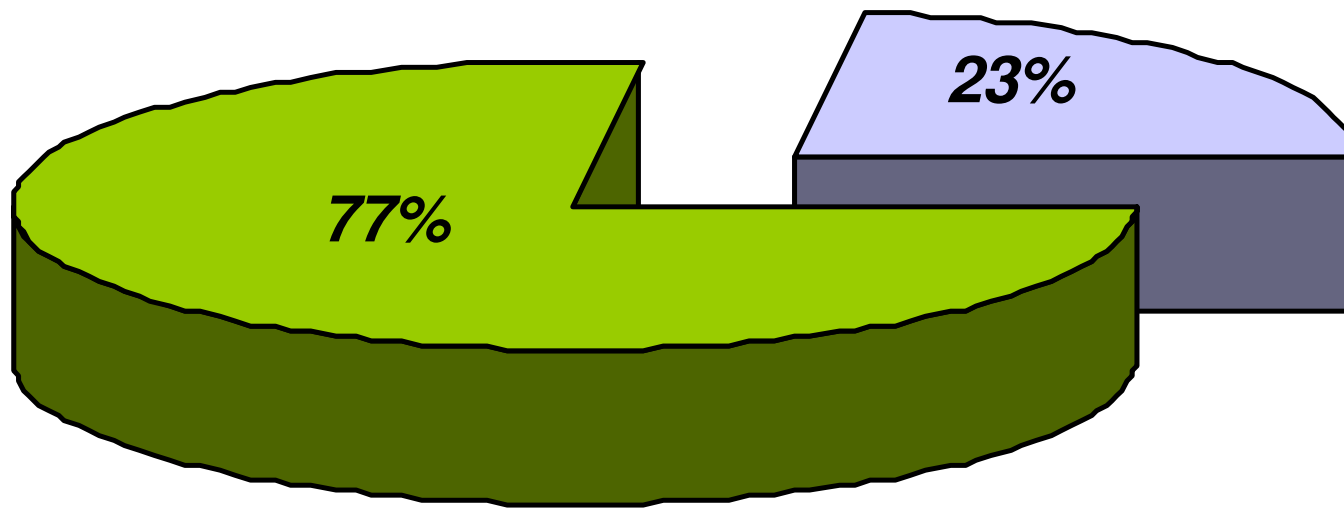
Niagara Region 2006: Comparison of Children's Mean Scores and the National Average



(UEY, 2007)

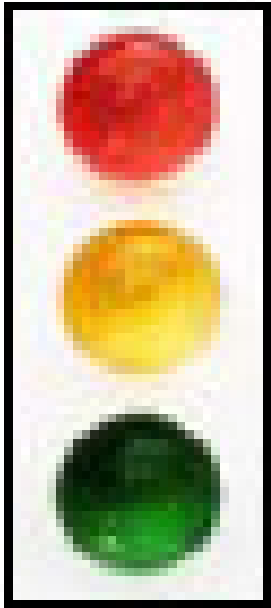
Regional EDI Results

% of Children On Track and Not On Track for School



■ ***On Track*** ■ ***Not On Track***

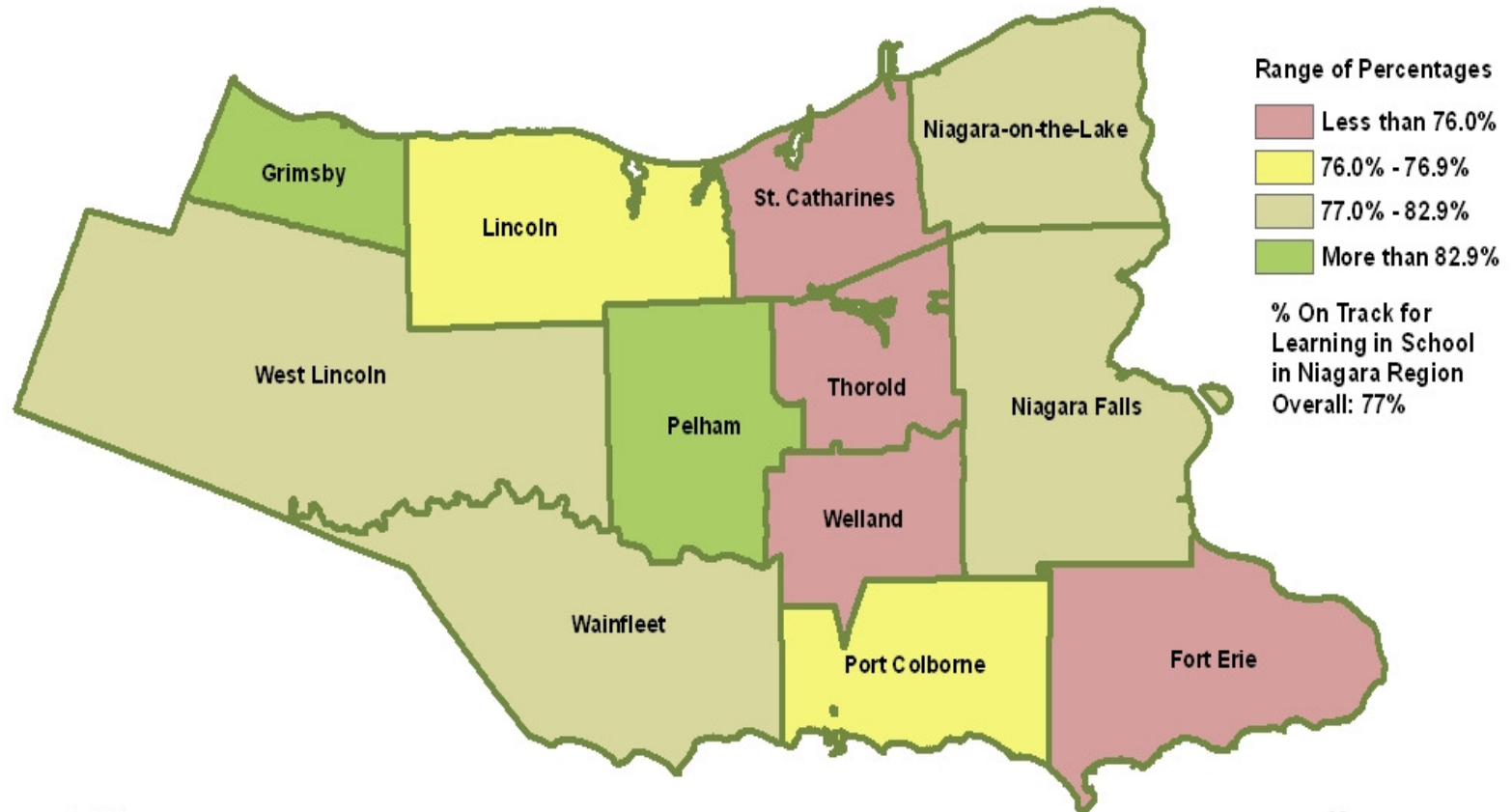
How to examine mapped knowledge



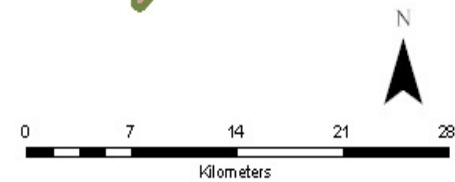
- Stop at 'red' and seriously examine the situation;
- Proceed with caution when you see 'yellow', carefully factoring in community conditions; and
- Celebrate and replicate beige & green success.

Overall % On Track for Learning in School in Niagara Region

(On Track for Learning in School: Children who scored above the 25th percentile)

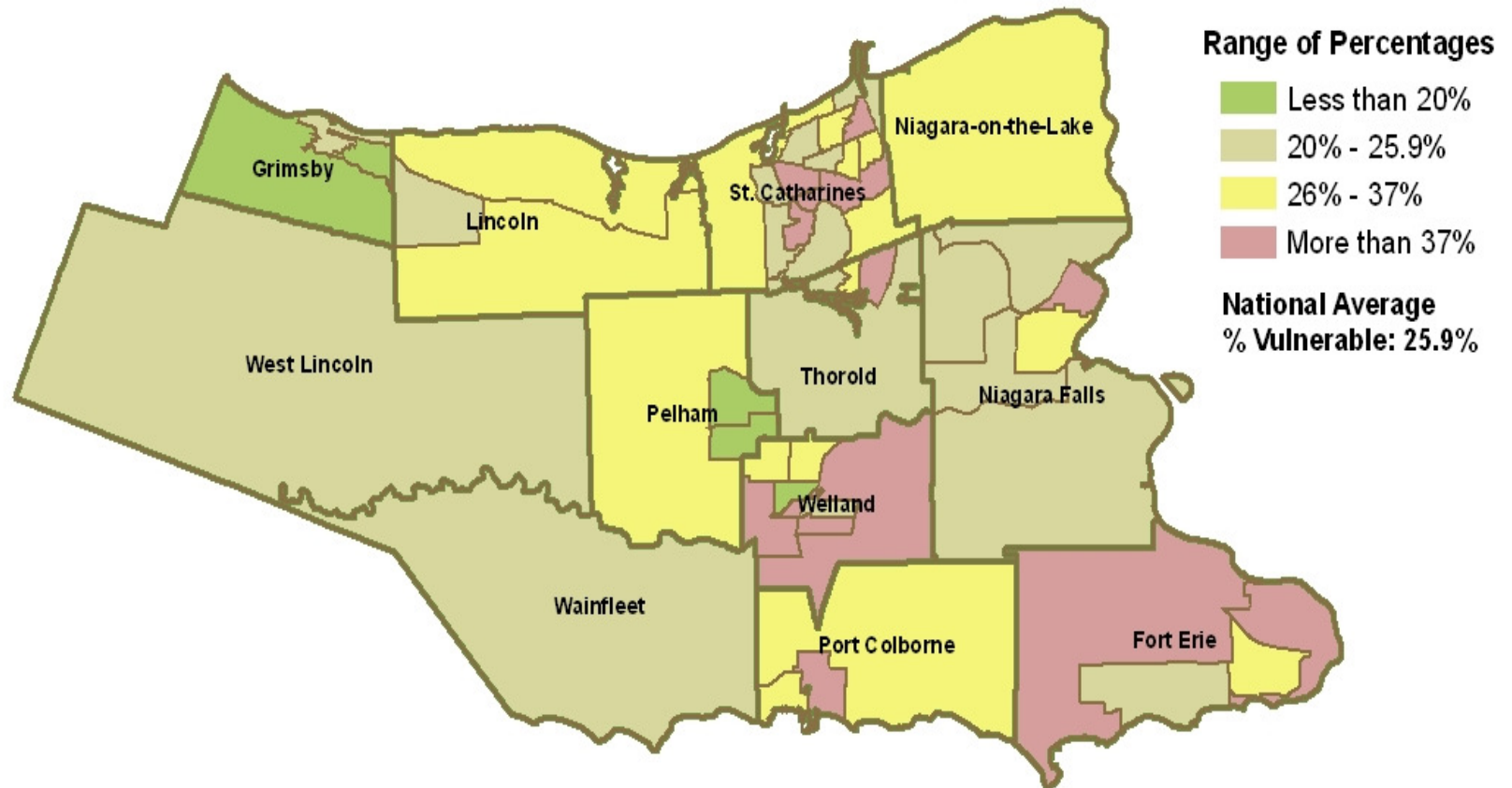


Data Sources
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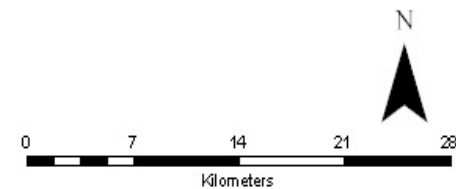


% of Vulnerable Children by Neighbourhoods in Niagara Region

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

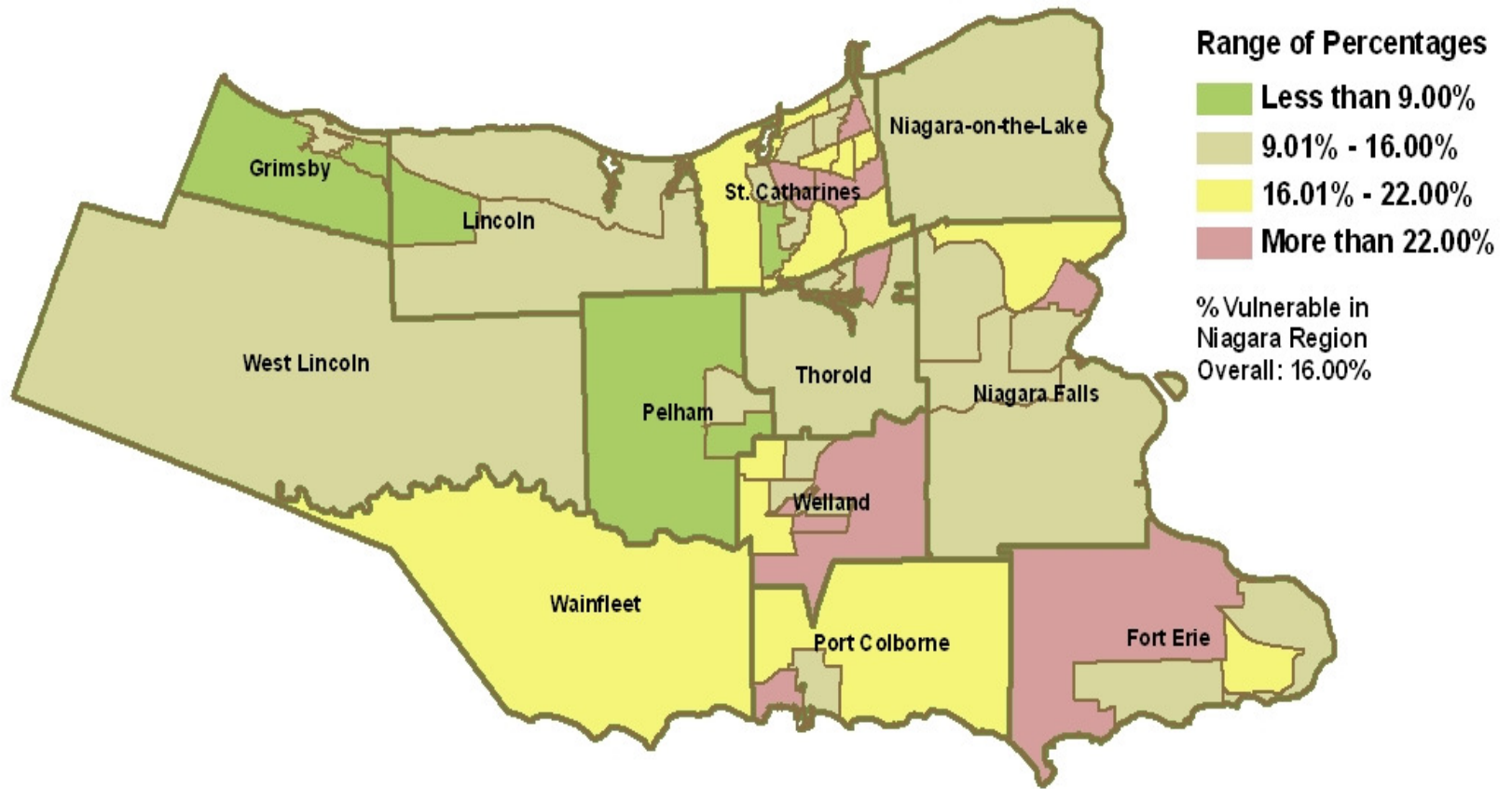


Data Sources:
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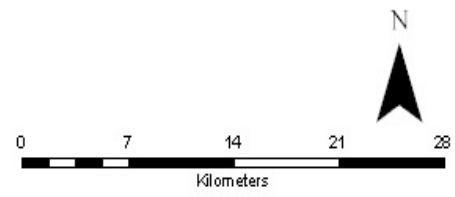


% Vulnerable in Communication Skills & General Knowledge by Neighbourhoods in Niagara Region

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

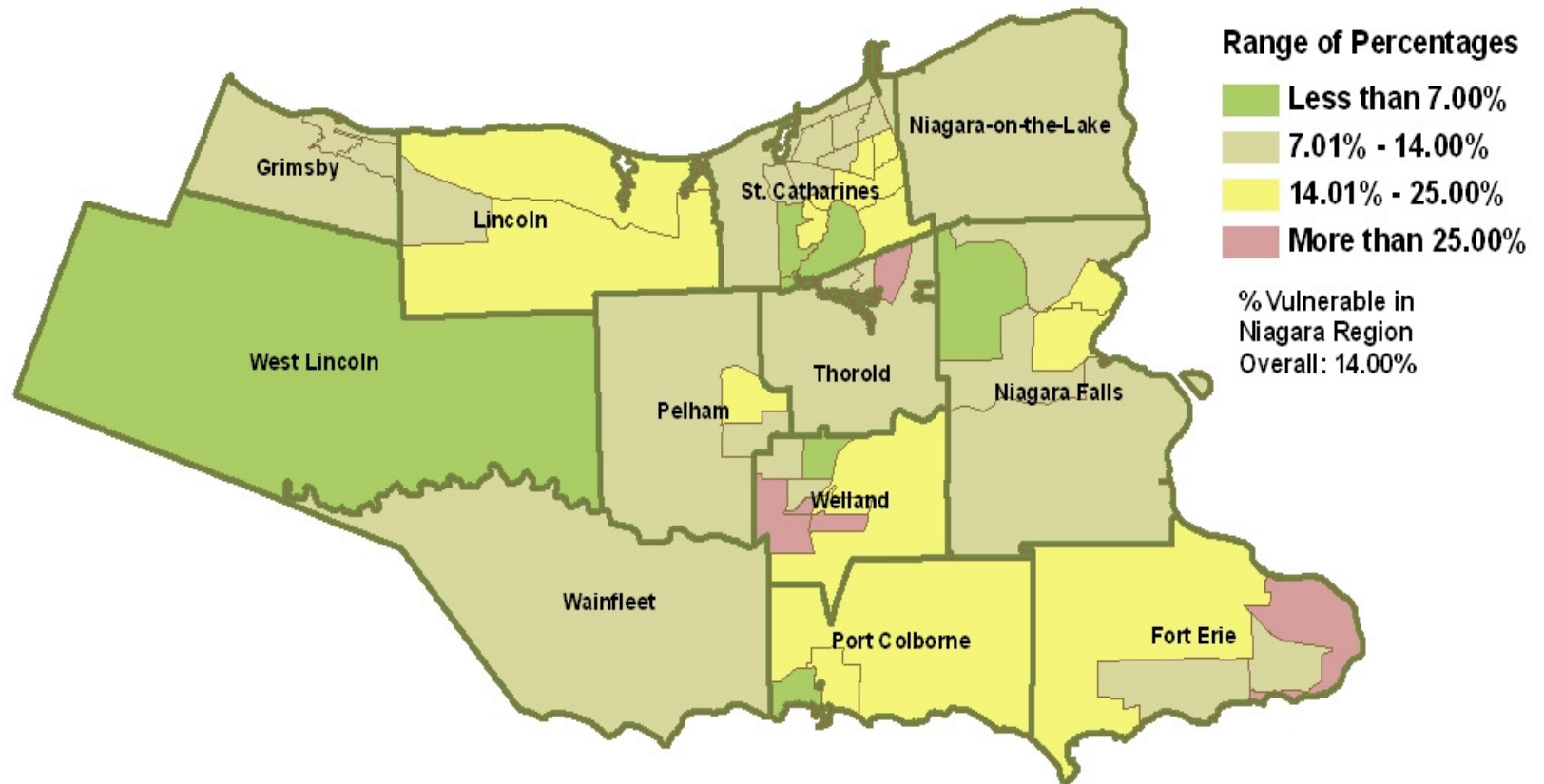


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 Base Map Features: Statistics Canada custom tabulation(s) from 2001 Census
 Amalgamated Neighbourhoods: Ontario Early Years Niagara Region & UEY, 2007
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% Vulnerable in Physical Health and Well-being by Neighbourhoods in Niagara Region

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



Data Sources:

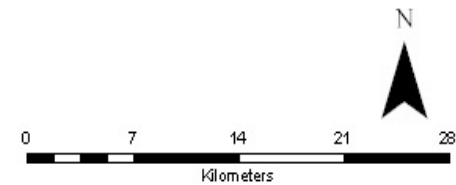
EDI Data: UEY & Offord Centre for Child Studies, 2006

Base Map Features: Statistics Canada custom tabulation(s) from 2001 Census

Amalgamated Neighbourhoods: Ontario Early Years Niagara Region & UEY, 2007

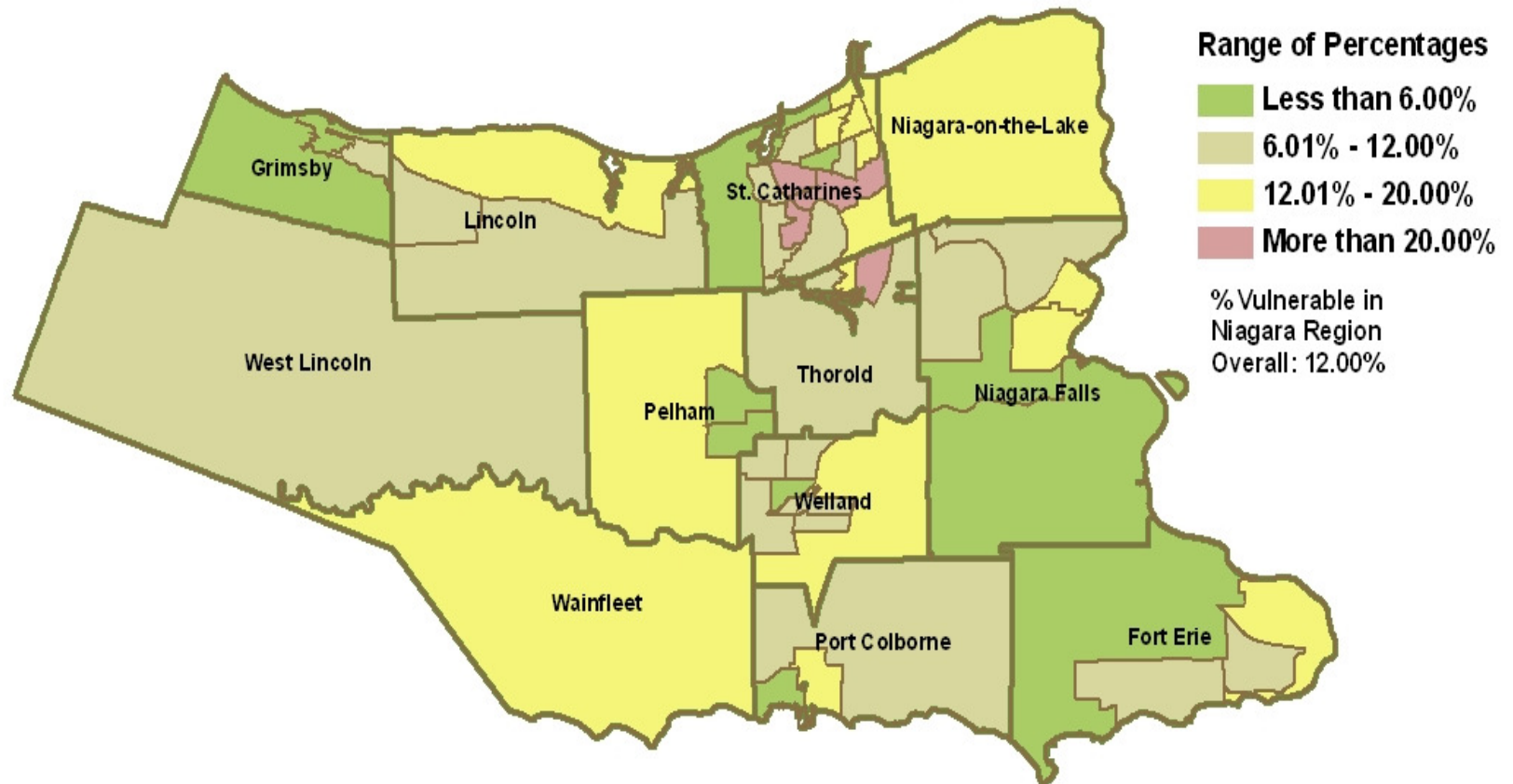
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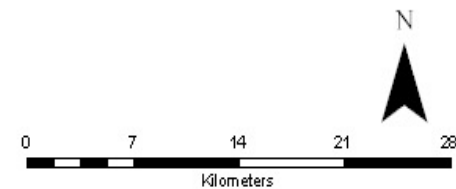


% Vulnerable in Language & Cognitive Development by Neighbourhoods in Niagara Region

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

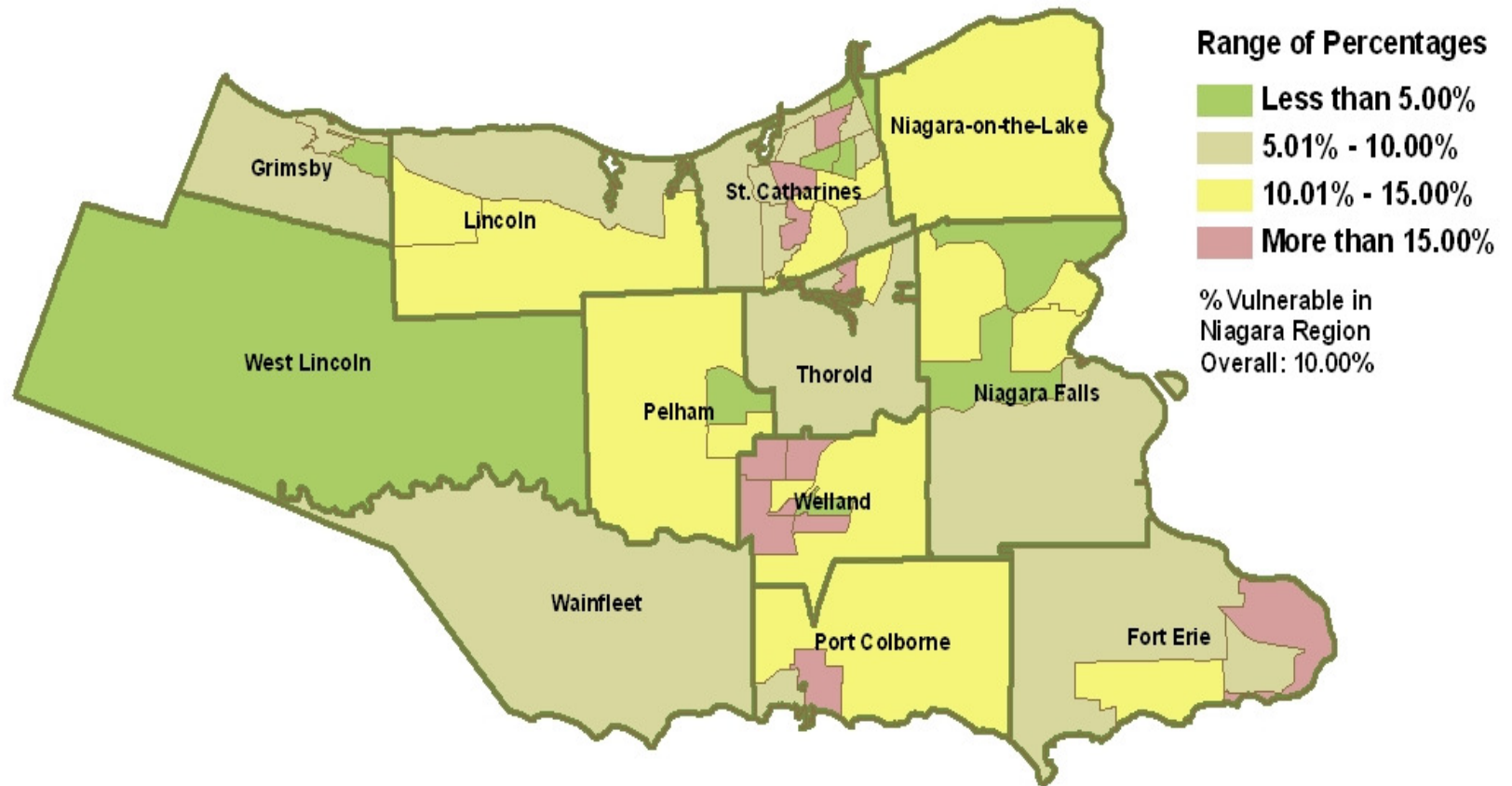


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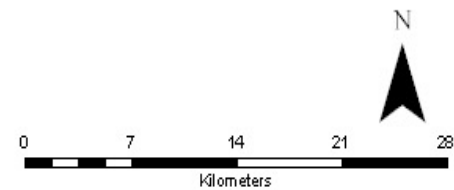


% Vulnerable in Emotional Maturity by Neighbourhoods in Niagara Region

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

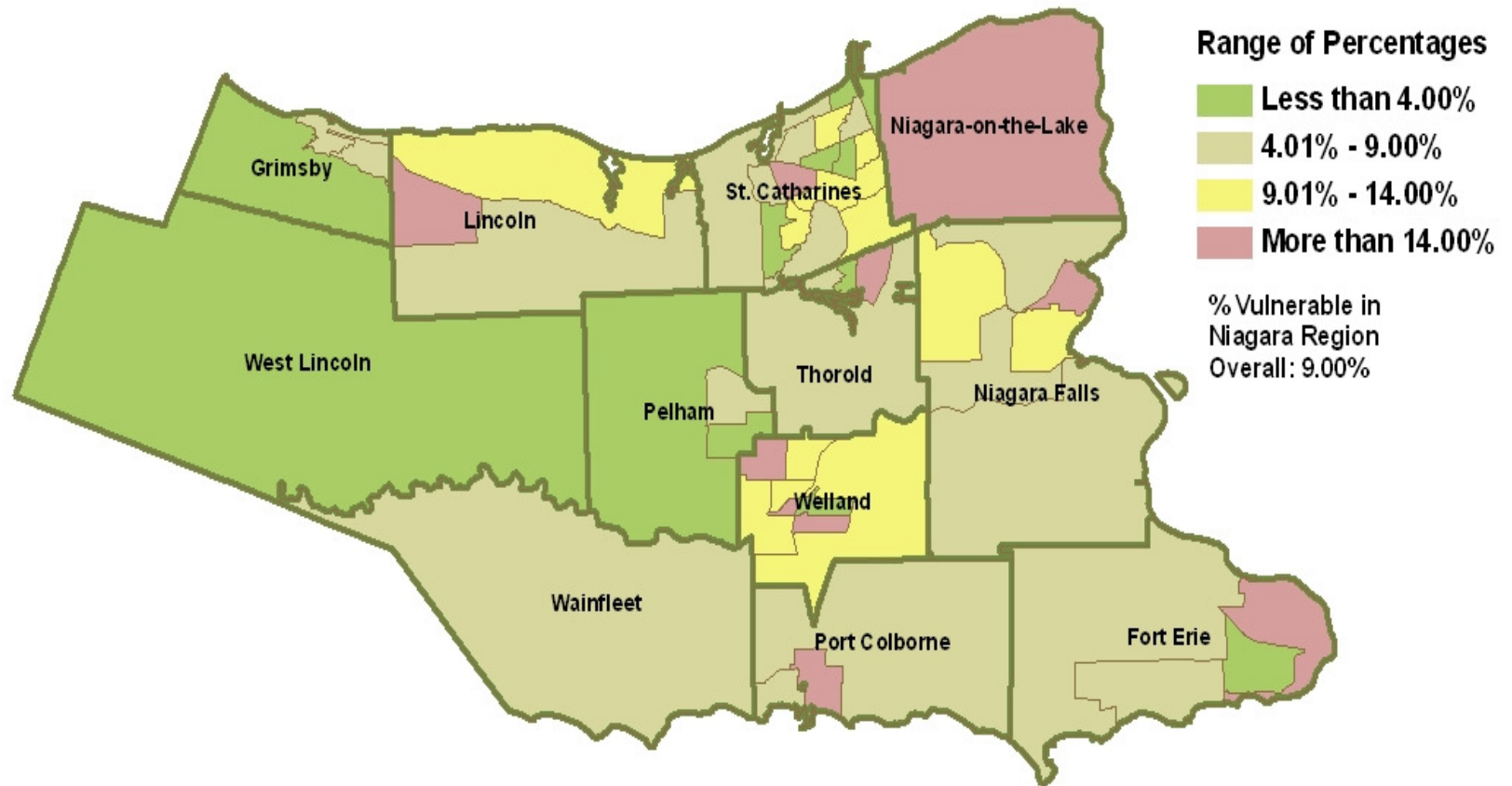


Data Sources:
EDI Data: UEY & Offord Centre Centre for Child Studies, 2006
Base Map Features: Statistics Canada custom tabulation(s) from 2001 Census
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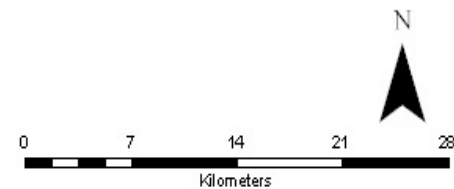


% Vulnerable in Social Competence by Neighbourhoods in Niagara Region

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



Data Sources:
EDI Data: UEY & Offord Centre Centre for Child Studies, 2006
Base Map Features: Statistics Canada custom tabulation(s) from 2001 Census
Amalgamated Neighbourhoods: : Ontario Early Years Niagara Region & UEY, 2007
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Overall Vulnerability (%)

- Neighbourhoods above regional average across all five domains:
 - Thorold Proper in Thorold
 - Rural Welland/Cooks Mills & Ontario Rd./Dain City in Welland
 - Elgin in Niagara Falls
 - Queenston & Downtown in St. Catharines

Overall Vulnerability (n)

Municipalities of note:

- St. Catharines = 31.9% vulnerable of 910 children
- Niagara Falls = 27.4% of 634 children
- Welland = 33.3% of 318 children
- Lincoln = 30.7% of 260 children
- Fort Erie = 33.9% of 210 children

Neighbourhoods of note:

- Stamford, Drummond/Victoria & Beaverdams in Niagara Falls
- Campden/Tintern & North Beamsville/Vineland/Jordan in Lincoln
- Merritton in St. Catharines

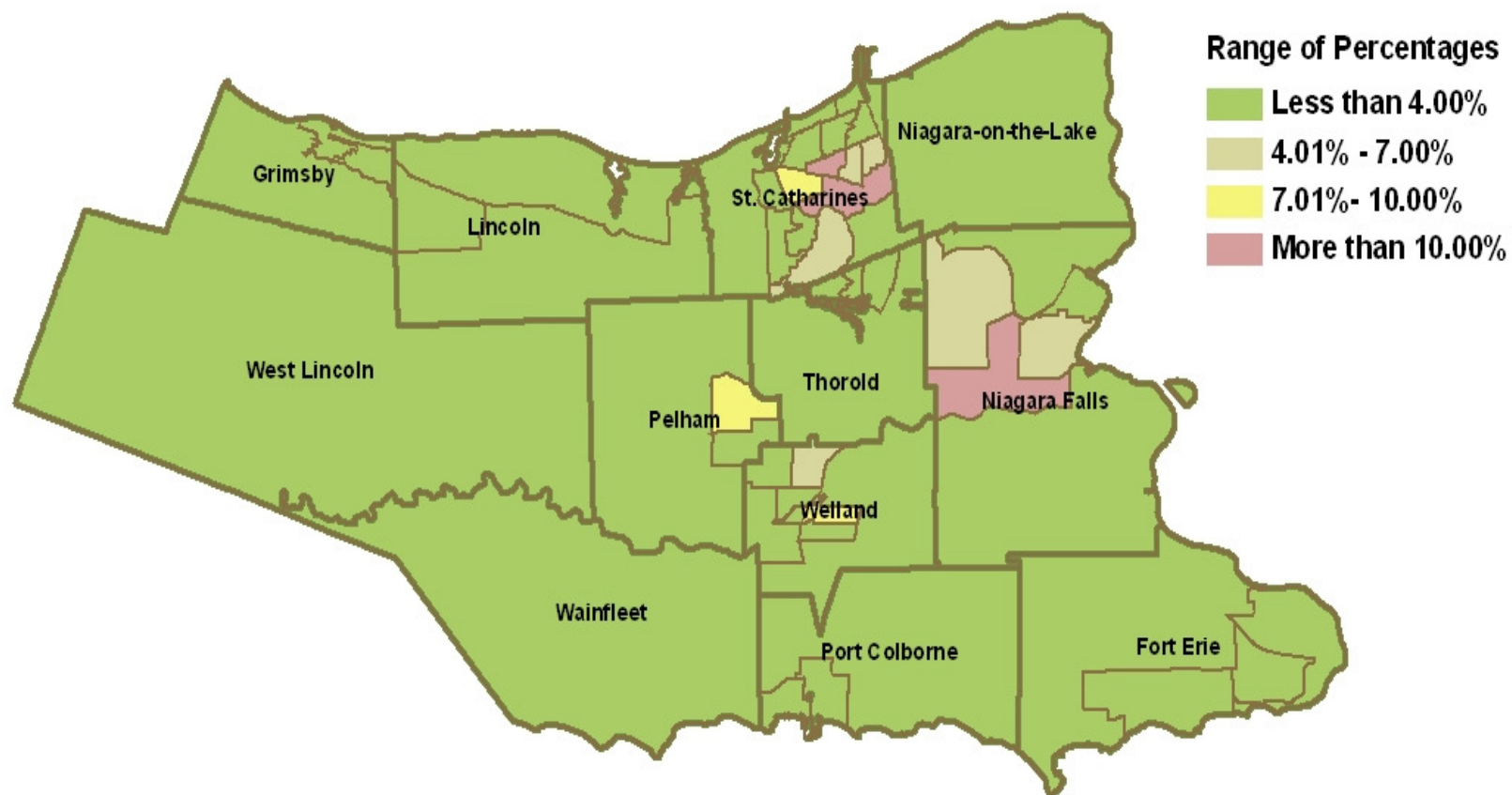
Sub-domain Analyses

- 20 sub-domains which make up 5 domains
- Grimsby – weak on only 1 sub-domain
 - Gross & Fine Motor Skills (PHWB)
- West Lincoln – weak on only 2 sub-domains:
 - Articulates clearly (CSGK)
 - Gross & Fine Motor Skills (PHWB domain)
- Thorold – weak on 17 out of 20 sub-domains
- Niagara-on-the-Lake – weak on 10 out of 20 sub-domains

Demographic Factors Influencing EDI

- Age of child
- Gender
- ESL

% of English as a Second Language (ESL) SK Children in Niagara Region



Data Sources:

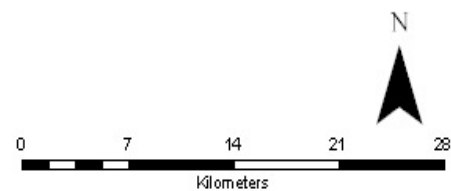
EDI Data: UEY & Offord Centre for Child Studies, 2006

Base Map Features: Statistics Canada custom tabulation(s) from 2001 Census

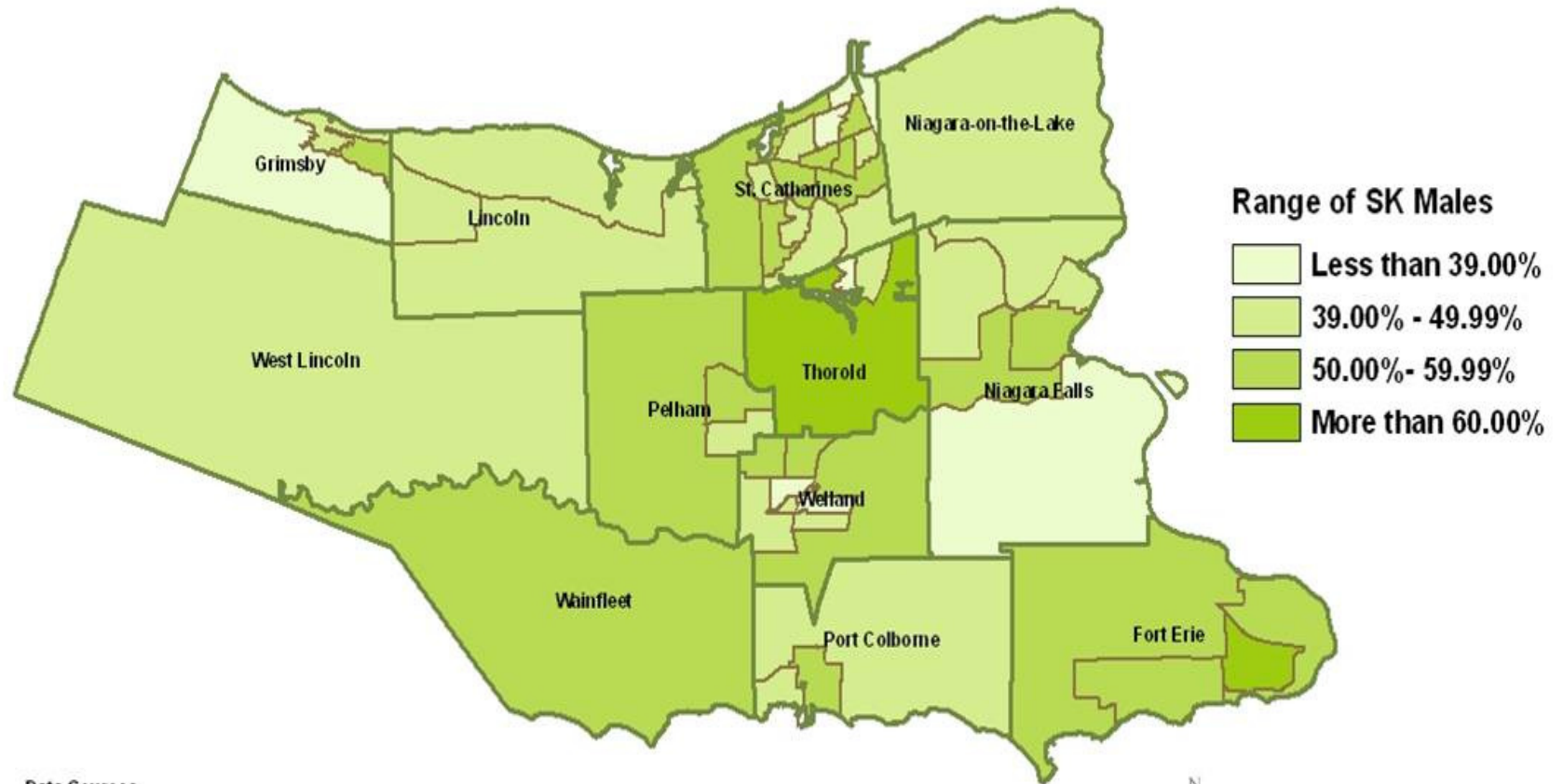
Amalgamated Neighbourhoods: Ontario Early Years Niagara Region & UEY, 2007

Produced by: UEY & Offord, 2007

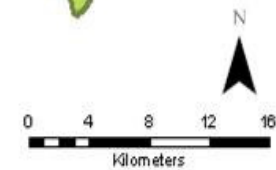
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Distribution of Male SK EDI Sample in Niagara Region



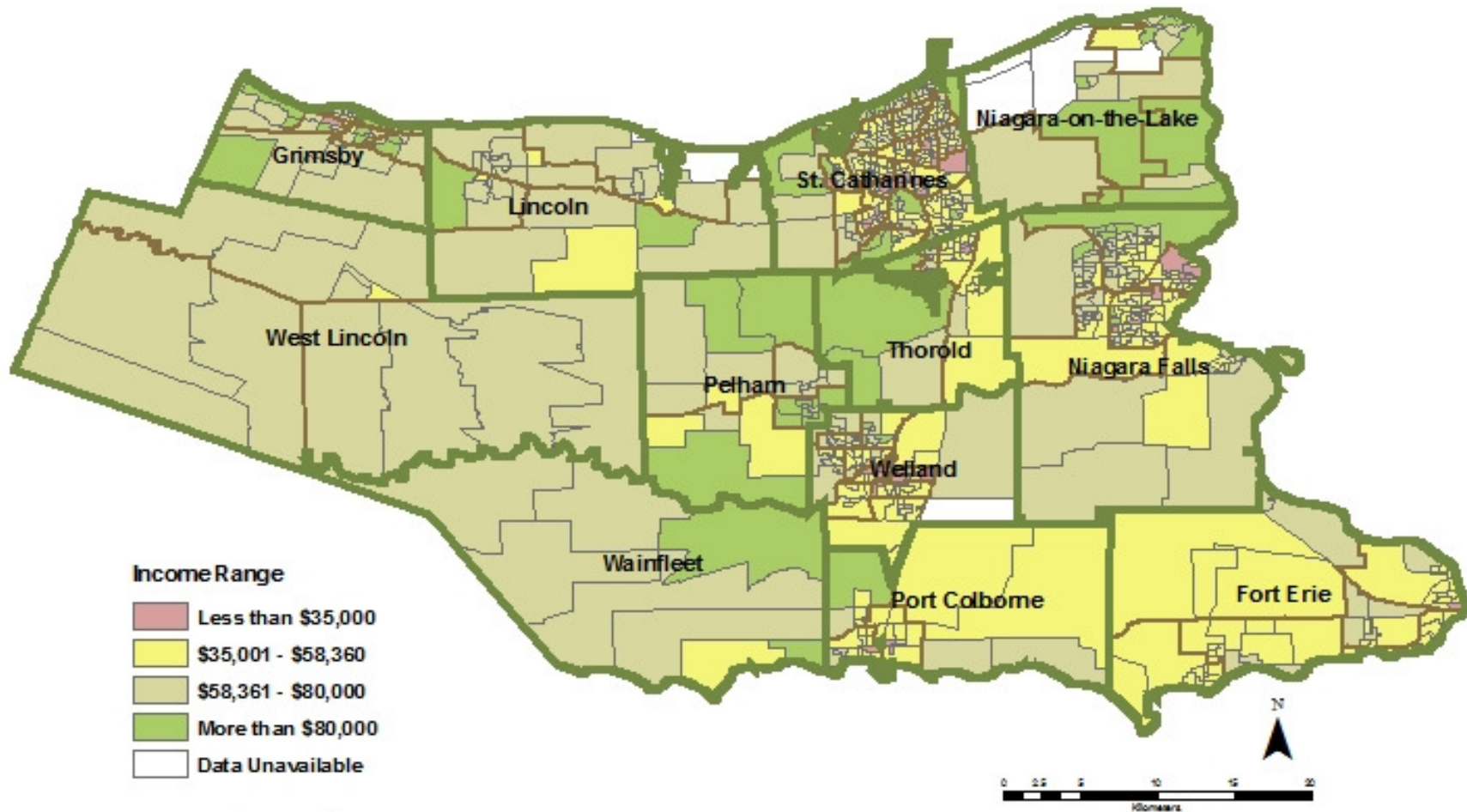
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Socioeconomic Factors Influencing EDI

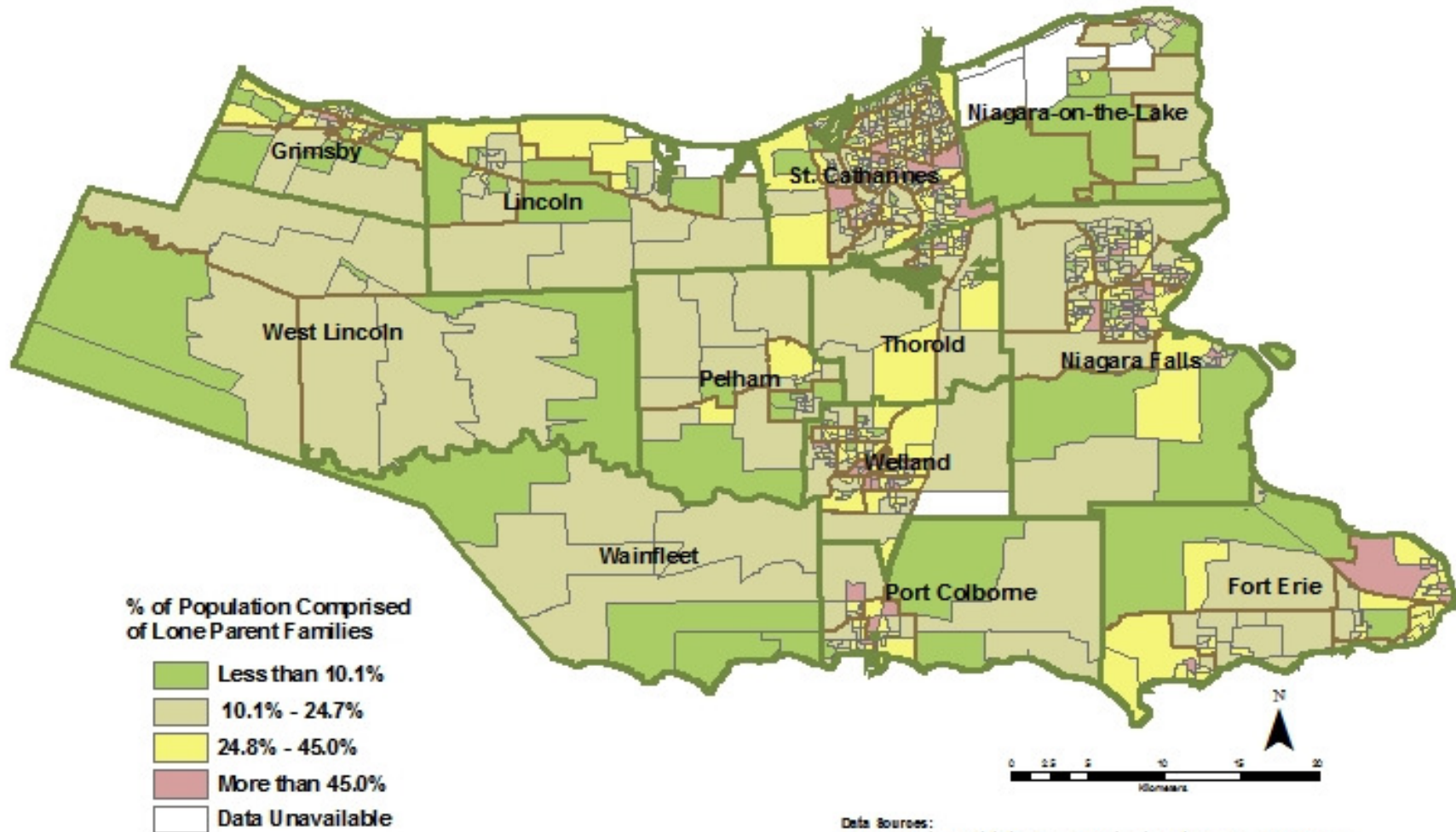
- Income
- Family Structure
- Education

Average Household Income in Niagara Region



Data Sources:
Base Map Features: Statistics Canada custom tabulation(s) from 2001 Census
Neighbourhoods: Neighbourhood Creation Project, Ontario Early Years Niagara Region, 2008
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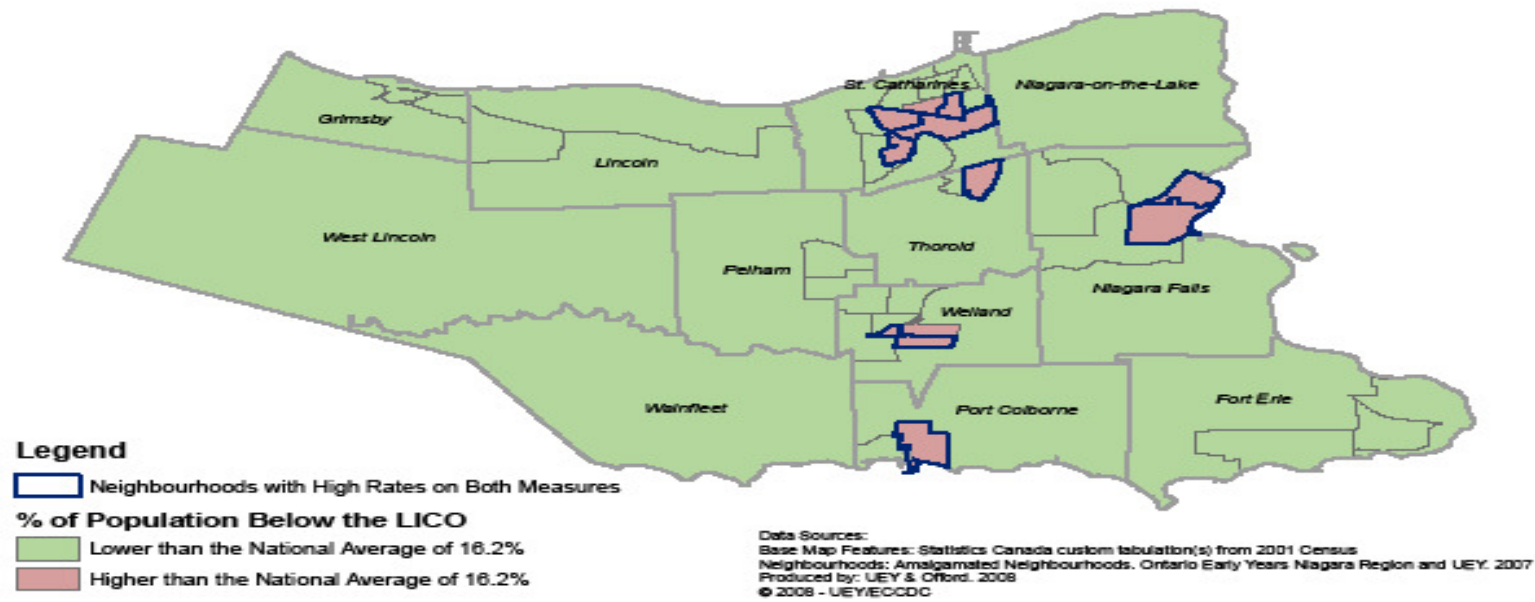
Family Structure in Niagara Region



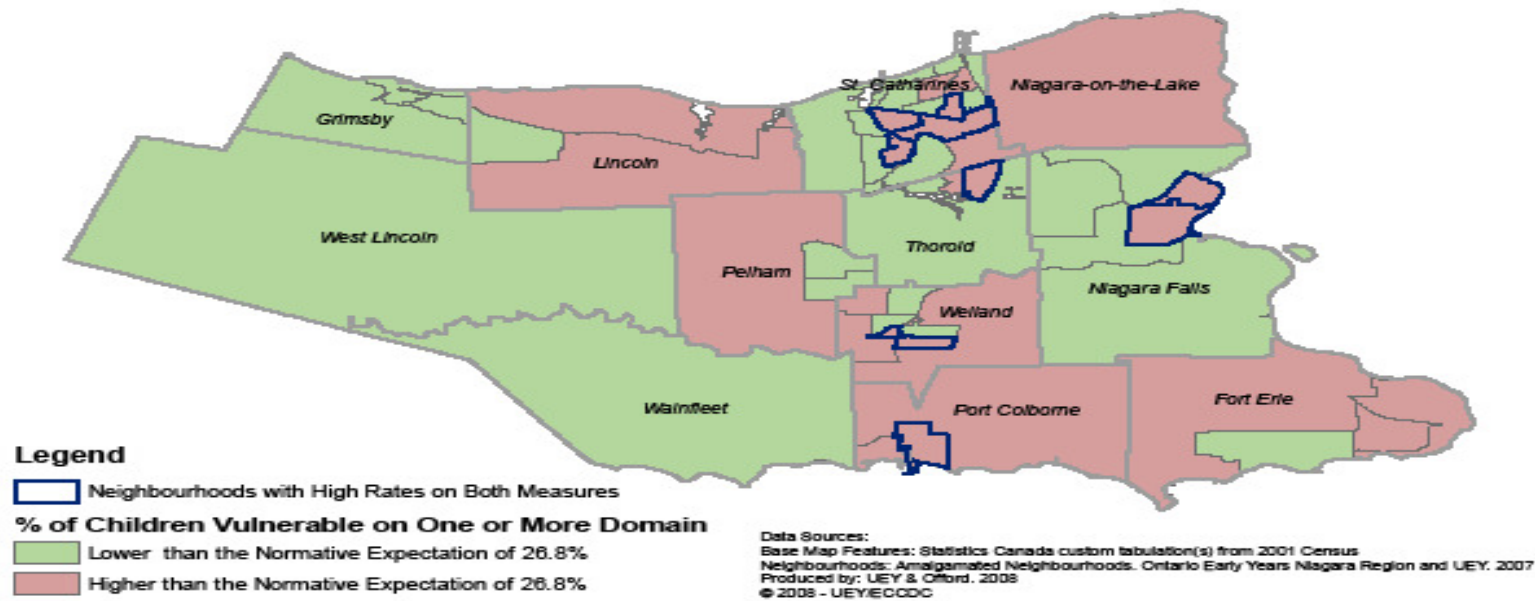
National Rate: 24.7%

Data sources:
 Base map features: Statistics Canada custom tabulation(s) from 2001 Census
 Neighbourhoods: Neighbourhood Creation Project, Ontario Early Years Niagara Region, 2008
 Produced by: UEY & Offord, 2007
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Low-Income Cut-Off (LICO) Percentage Comparisons



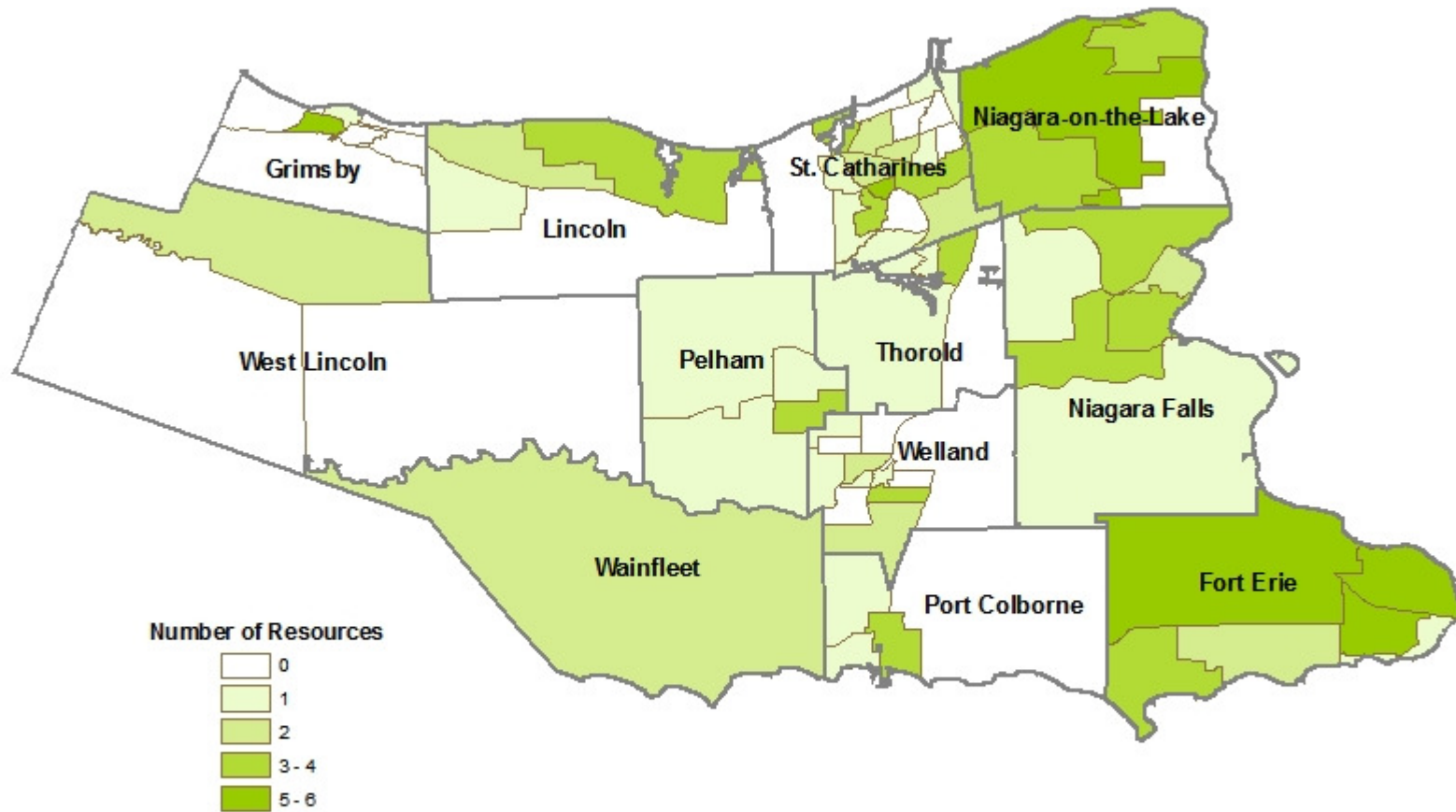
EDI Vulnerability



2007 Community Resources

Type of Resource	# of resources in Niagara Region
Sports & Recreation	420
Special Interest	319
Educational	172
Health & Wellness	141
Arts, Entertainment and Multicultural	105
Social	78

Distribution of Sports and Recreation Resources in the Niagara Region

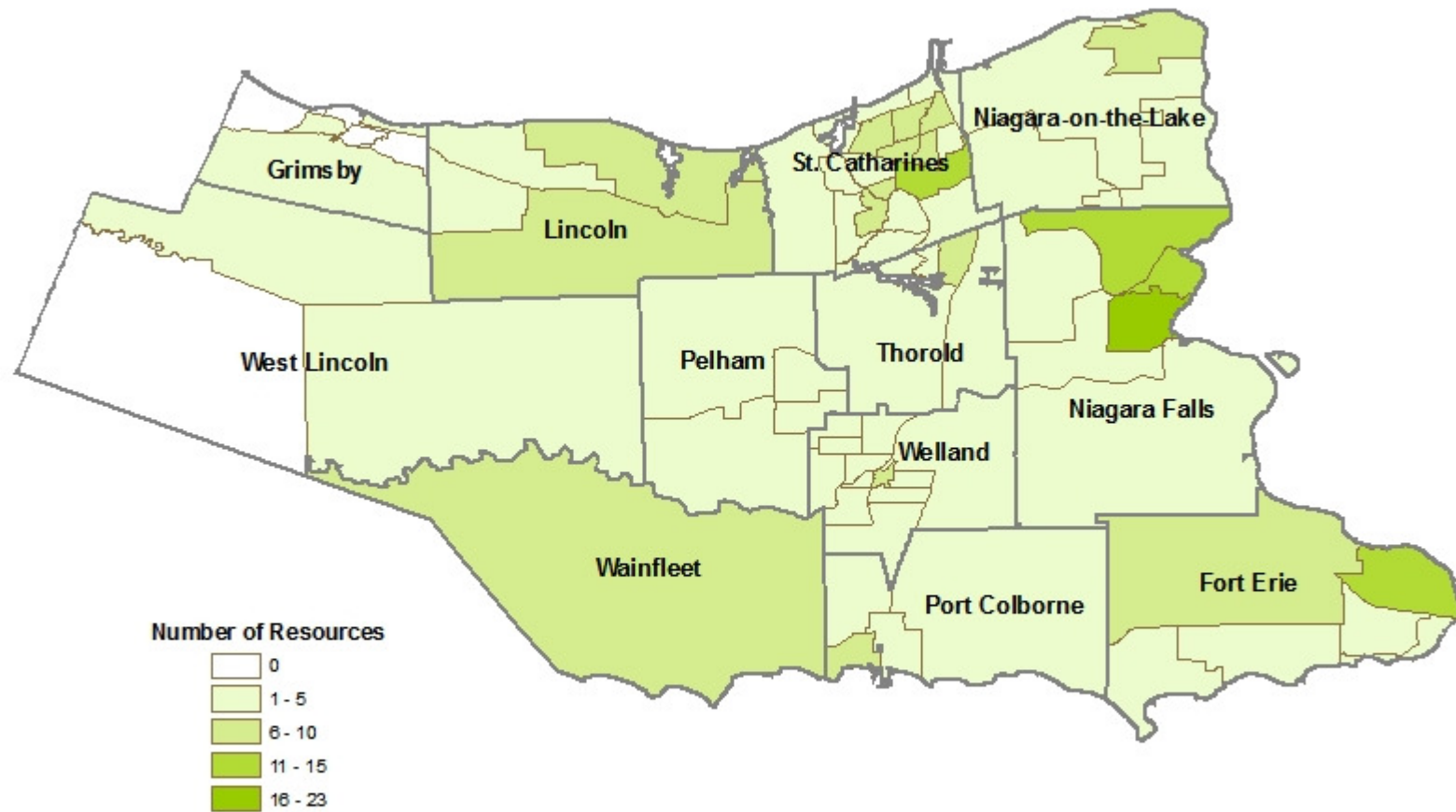


0 2.5 5 10 15 20
Kilometers



Data Sources:
Community Resource Inventory: UEY & Information Niagara, 2006
Neighbourhoods: Neighbourhood Creation Project, Ontario Early Years Niagara Region, 2006
Base map features: Statistics Canada custom tabulation(s) from 2001 Census
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Distribution of Special Interest Resources in the Niagara Region

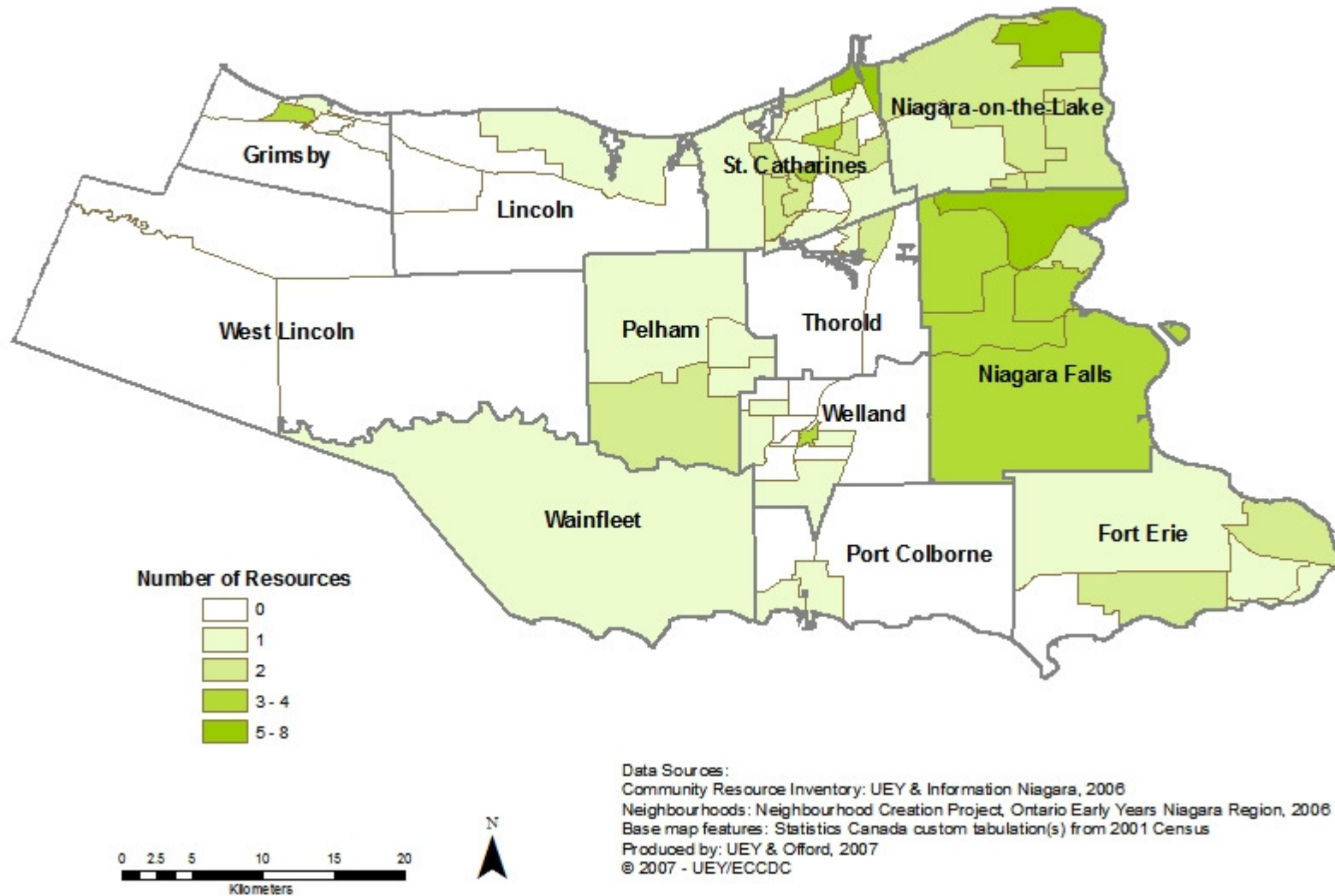


0 2.5 5 10 15 20
Kilometers

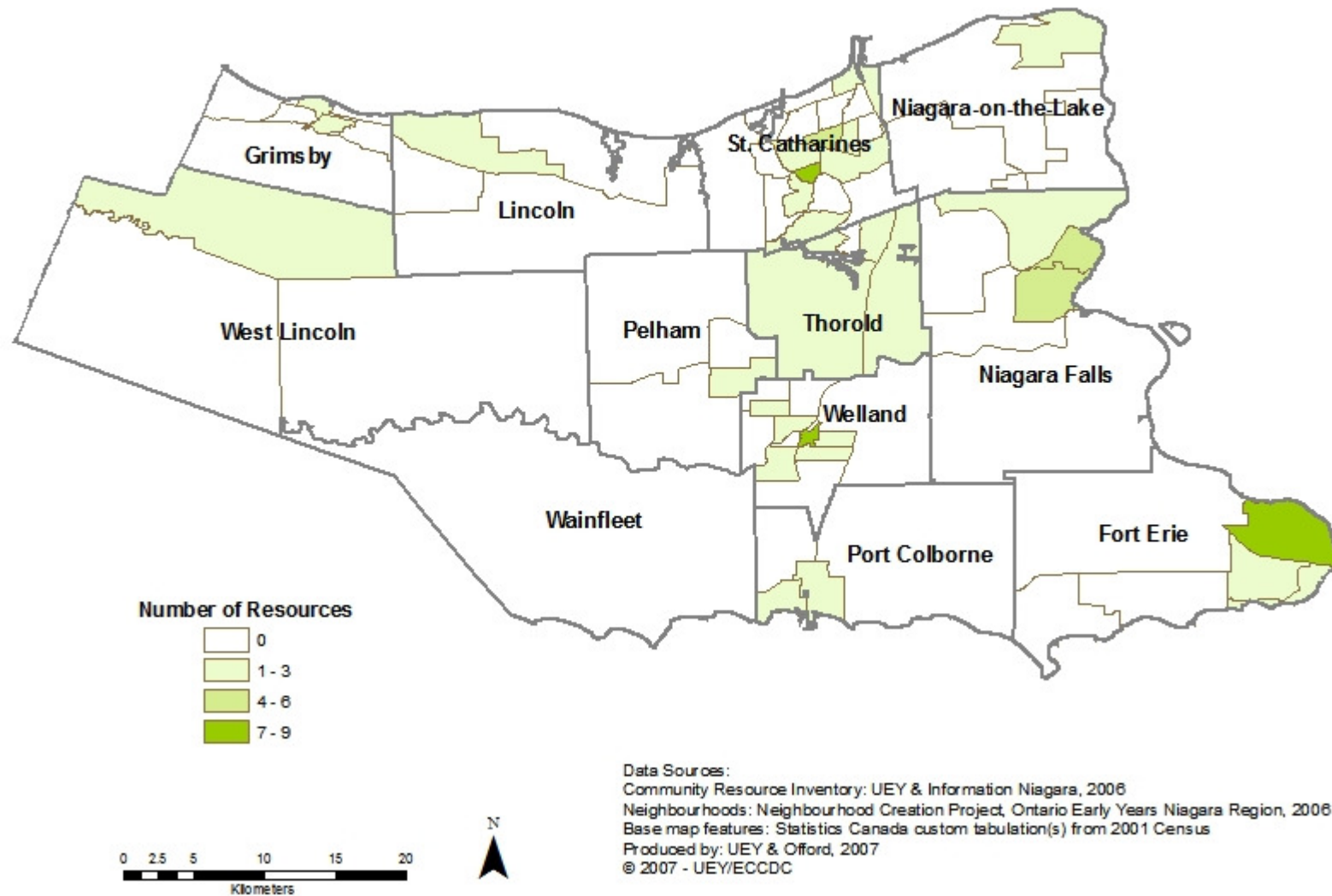


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Neighbourhoods: Neighbourhood Creation Project, Ontario Early Years Niagara Region, 2006
Base map features: Statistics Canada custom tabulation(s) from 2001 Census
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Distribution of Arts, Entertainment and Multicultural Resources in the Niagara Region



Distribution of Social Resources in the Niagara Region



Highlights – Municipal

- Surprising municipal results given SES:
 - NOTL
 - Lincoln
 - Pelham

Highlights - Neighbourhood

- Surprising neighbourhood results given available resources:
 - Thorold Proper neighbourhood
 - 2nd highest vulnerability of all 50 neighbourhoods
 - Low SES
 - Many resources
 - What are barriers to accessing resources?

Highlights – Neighbourhood

- **Sugarloaf neighbourhood in Port Colborne**
 - 1 Very high and 4 low domain vulnerability rates
 - 0% vulnerability in Language & Cognitive Development
 - 24.3% vulnerability in Communication Skills & General Knowledge
- **Fairview Neighbourhood in St. Catharines**
 - 1 Very high and 4 low domain vulnerability rates
 - 0% vulnerability in Social Competence & Emotional Maturity
 - 19.1% in Communication Skills & General Knowledge
 - Why are children in these neighbourhoods only struggling in one domain?
 - Overall children doing quite well despite low SES might be due to availability of and access to resources

Highlights – Neighbourhood Resilience

These 3 neighbourhoods are doing well despite poor SES conditions:

- Ridgeway in Fort Erie
- Westlane in Niagara Falls
- Eastdale & Market Square in Welland

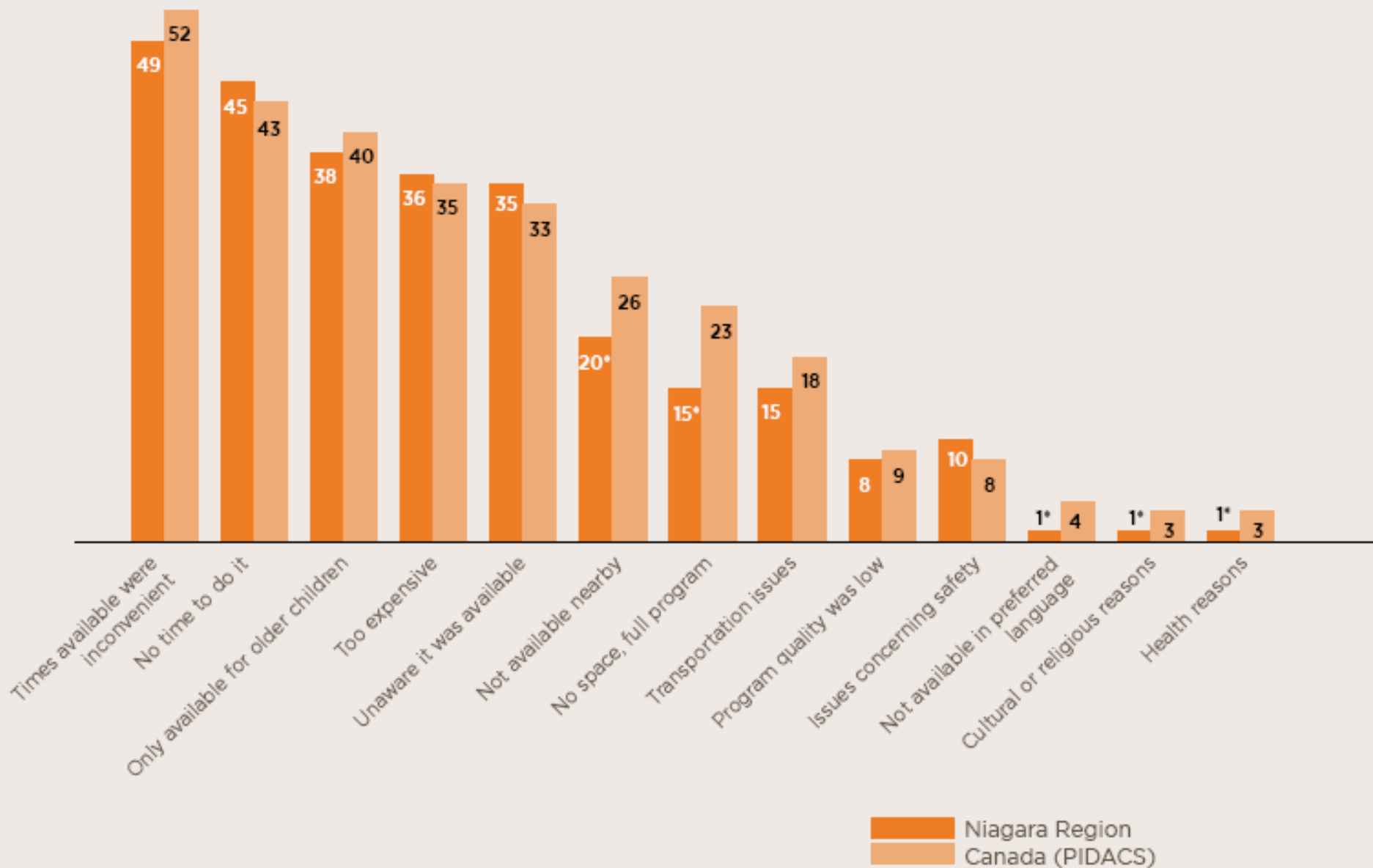
PIDACS

Parent Interviews and Direct Assessment of Children Survey (PIDACS) was conducted in 2007. Your briefs outline regional level results on:

- Community Supports
- Family Background and Functioning
- Developmental Skills Results

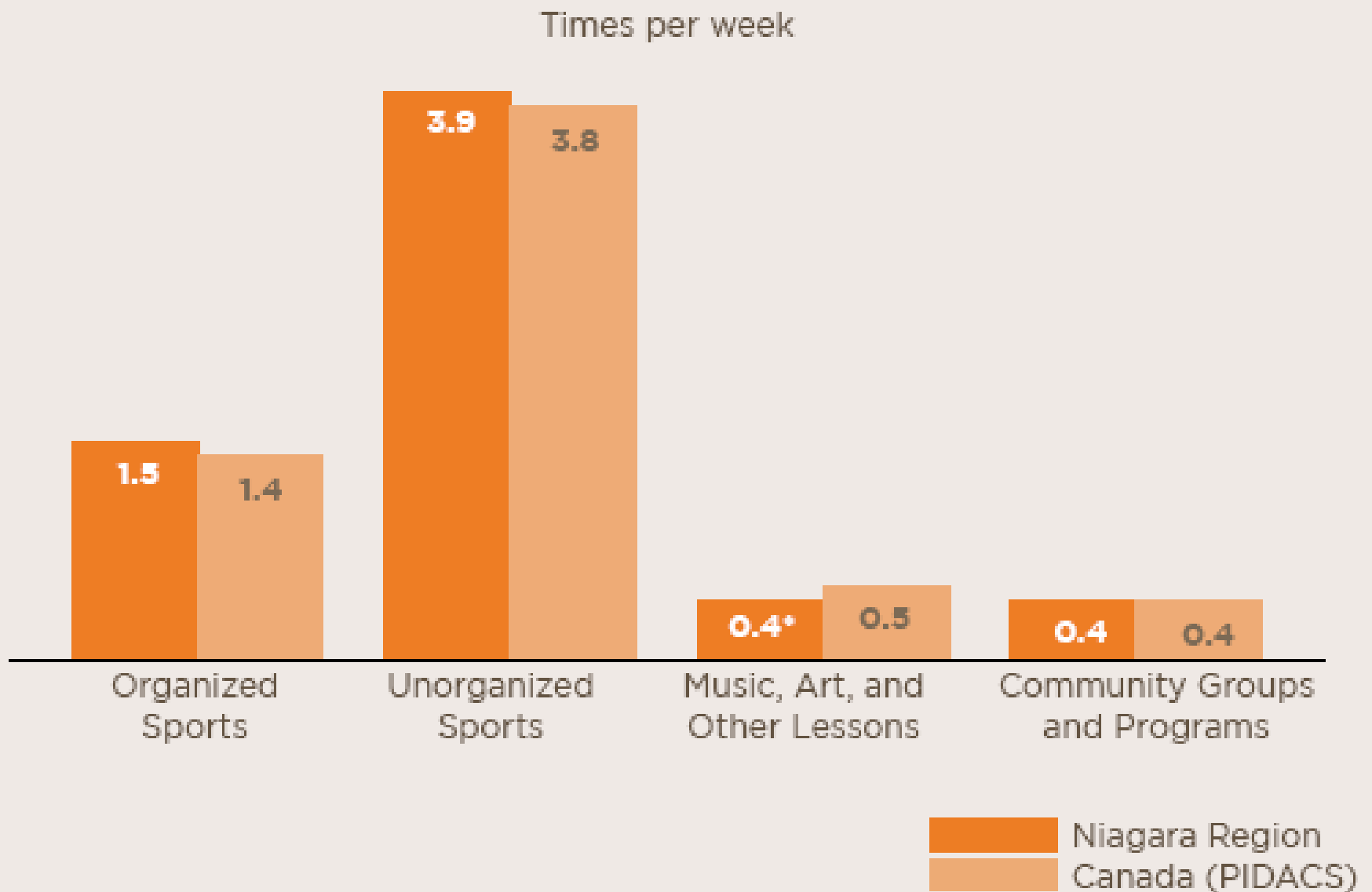
FIGURE 3-8. Barriers to the Use of Programs and Resources

Percentage of Families



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

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

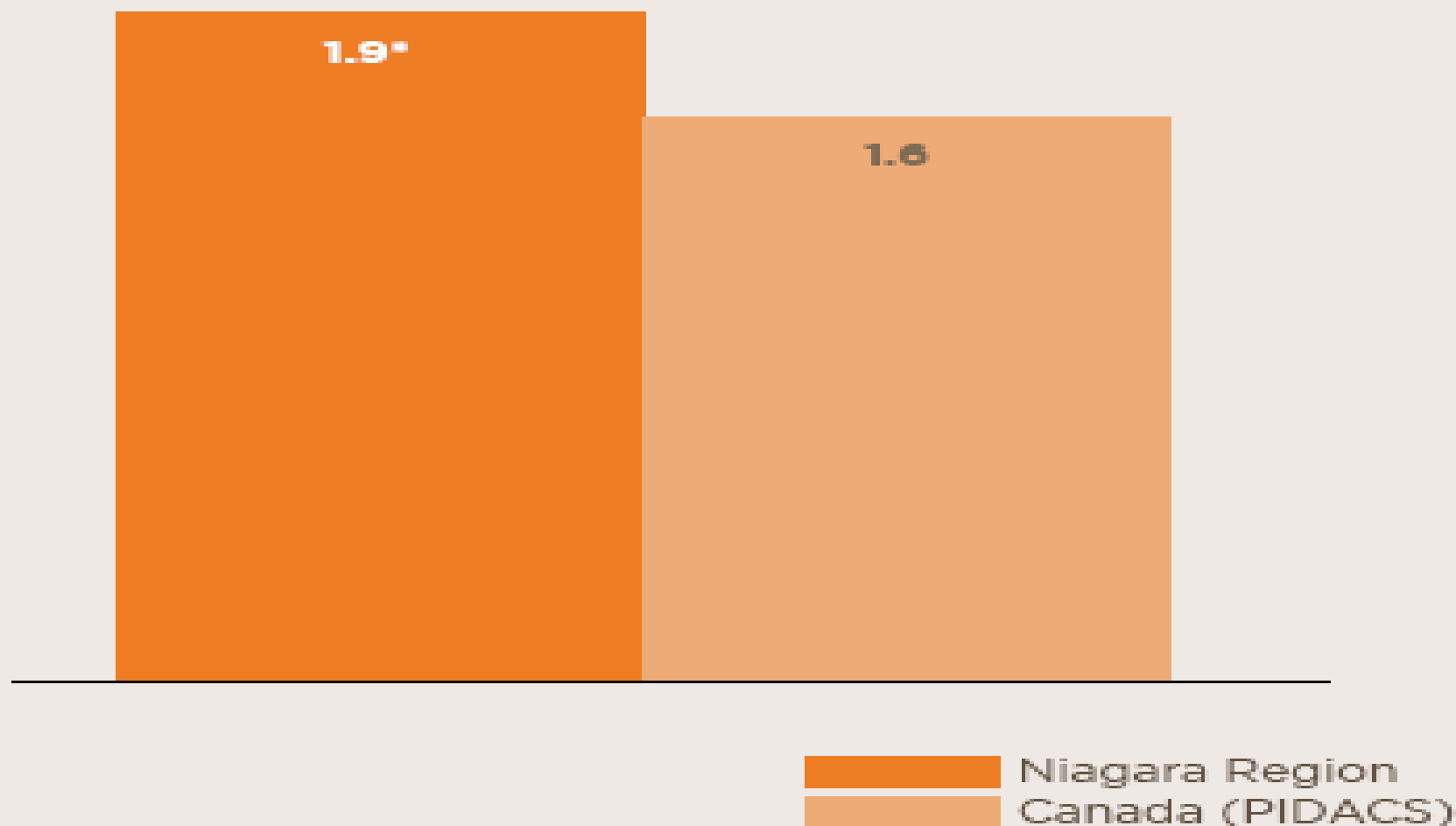


Note: Statistically significant differences are indicated with an asterisk.

Source: PIDACS, 2006-07.

FIGURE 3-4. Time Spent Watching Television or Videos

Hours per day

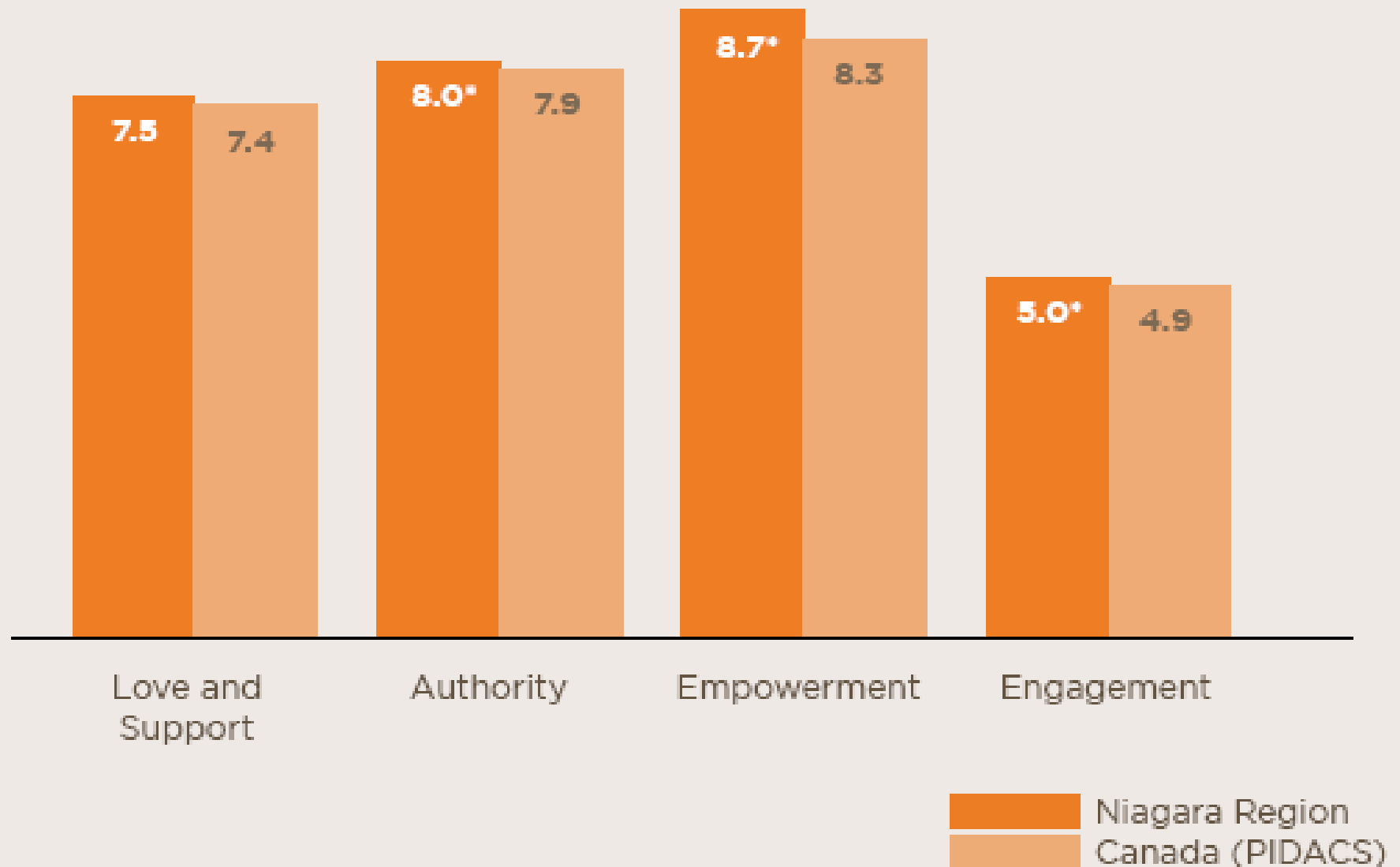


Note: Statistically significant differences are indicated with an asterisk.

Source: PIDACS, 2006-07.

FIGURE 3-2. Positive Parenting Practices

Average scores on a ten-point scale



Note: Statistically significant differences are indicated with an asterisk.

Source: PIDACS, 2006-07.

UEY's Next Steps

- UEY is sun setting and is no longer providing custom briefs, presentations or planning support. However, we will:
- Release an Action Plan based on local results and work with partners (September 30/08)
- Upload all reports, presentations etc.. onto our website: www.uey.eccdc.org
- Release additional analysis on EDI and PIDACS data (October 15/08)

Community Next Steps

- Use local data (UEY and other) in planning and program development and delivery
- Continue analysis of neighbourhood conditions and early development results (i.e. City of Toronto)
- Track results over time (i.e. EDI and SES)
- Share information
- Be an evidence-based planning champion

Questions?

Thank You
~ Glory & Tiffany