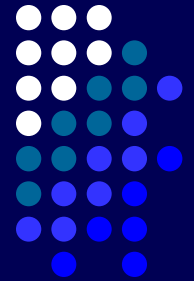


Early Development Instrument (EDI)

Early Years Niagara Research
Advisory Group Presentation

May 22, 2007





Understanding the Early Years (UEY):

What is UEY?

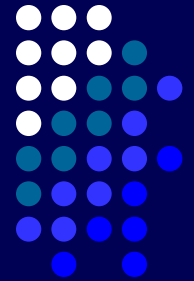
A *national initiative*, funded by Human Resources and Social Development Canada, that *enables communities to better understand the needs of their young children and families* so they can *determine the best programs and services to meet them.*

Where is UEY?

- Over 30 communities across Canada
- Niagara Falls (2001-2007)
- Niagara Region (2005-2008)

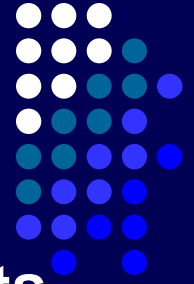
Your local sponsor is the Early Childhood Community Development Centre (ECCDC) !!

UEY Timeline



- **2001 EDI – UEY Niagara Falls**
- **National Longitudinal Study of Children & Youth (NLSCY) - Statistics Canada 2001/02 used by UEY Niagara Falls**
- **2001 Census Data – Statistics Canada used by UEY Niagara Falls and 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**
- **2006 EDI – UEY Niagara Region**
- **2006 Community Resources Inventory Survey – UEY Niagara Region**
- **2007 PIDACS – UEY Niagara Region**

UEY Tools:



Children's Development, Family & Community Experience

Community Assets

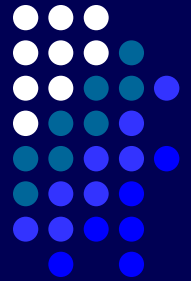
> Early Development Instrument (EDI)
> Parent Interviews and Direct Assessment of Children (NLSCY, PIDACS)

Community Resource Inventory
Mapped by Spring 2007!

Community Factors

Socioeconomic Conditions and Social Risk Index
Mapped by Spring 2007!

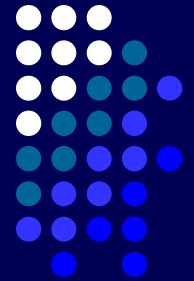
Early Development Instrument (EDI):



Measures *readiness to learn at school* which refers to the child's ability to meet the task demands of school, such as:

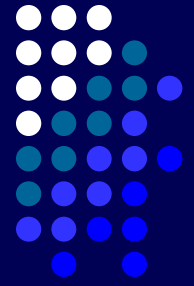
- being comfortable exploring and asking questions,
- listening to the teacher,
- playing and working with other children,
- remembering and following rules, and
- benefiting from the educational activities that are provided.

Early Development Instrument (EDI):



Teacher recorded measure on *five domains of children's early development*:

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



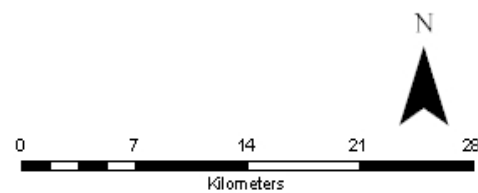
In early 2006, Senior Kindergarten teachers from across the Niagara Region and both School Boards implemented the EDI with their students.

The following are some of the Niagara Region Neighbourhood 2006 EDI results:

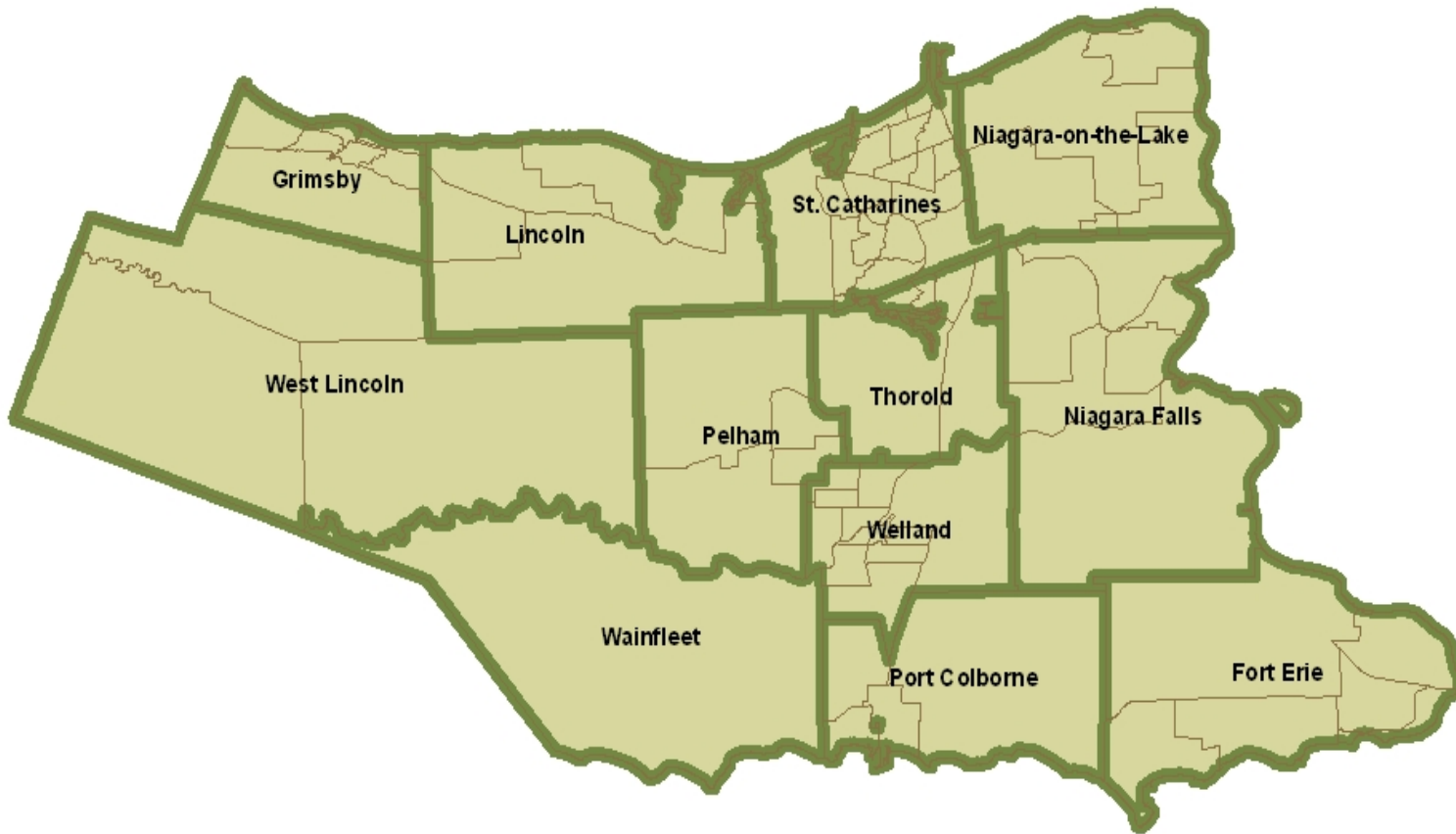
Municipalities of Niagara Region



Data Sources
Base Map Features: Region of Niagara, 2006
Produced by: UEY & Offord, 2007
© 2007 - UEY/ECDC



Neighbourhoods in Municipalities of Niagara Region



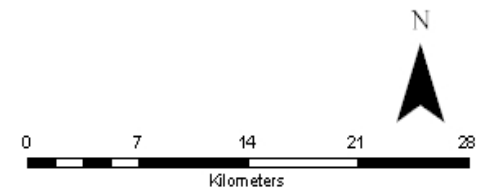
Data Sources

Neighbourhoods: Neighbourhood Creation Project, Public Health, 2006/12

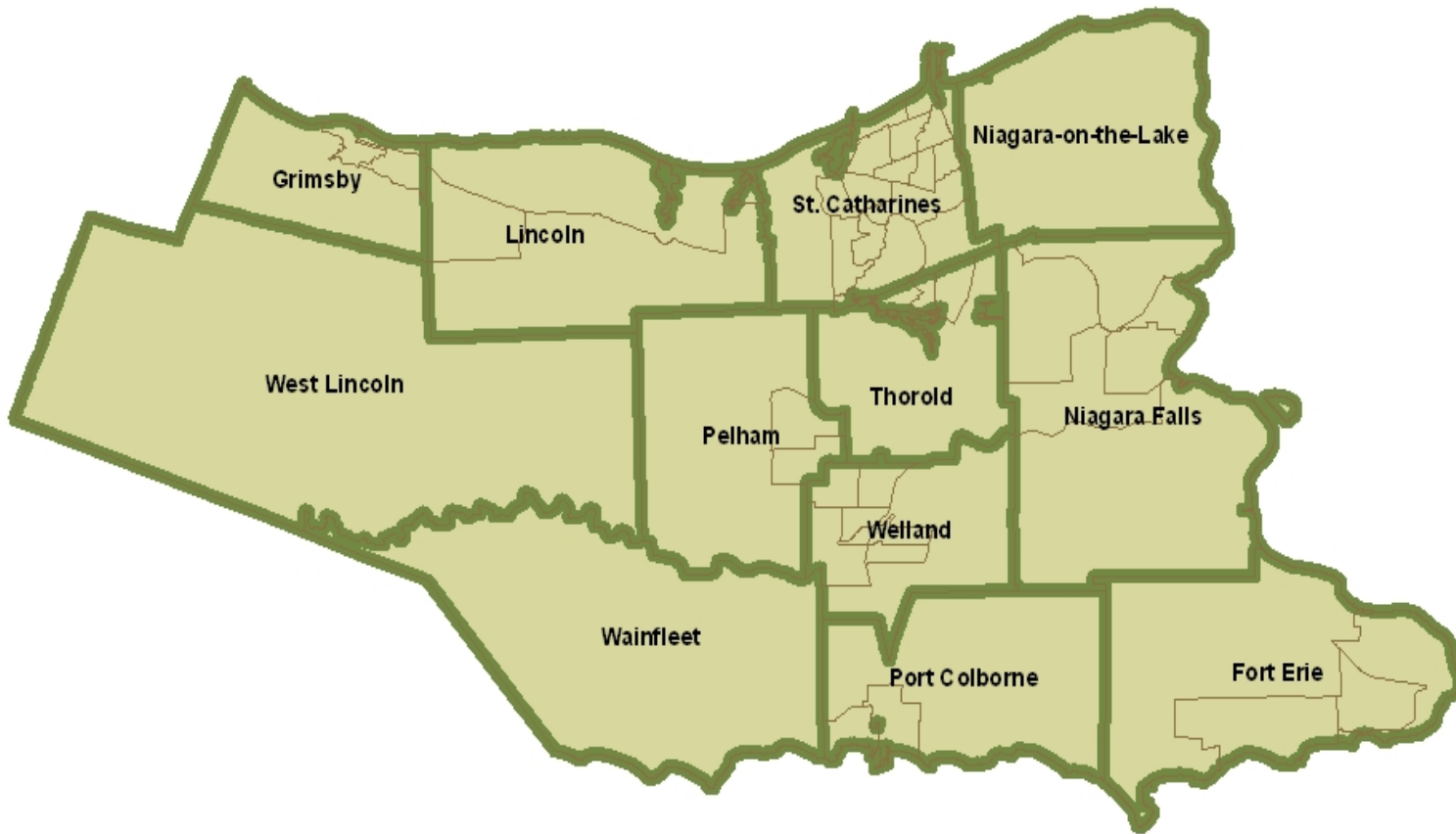
Base Map Features: Region of Niagara, 2006

Produced by: UEY & Offord, 2007

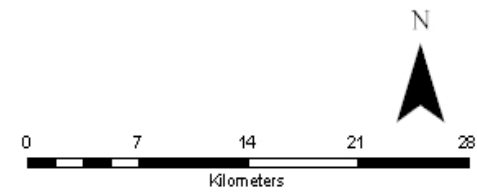
© 2007 - UEY/ECCDC



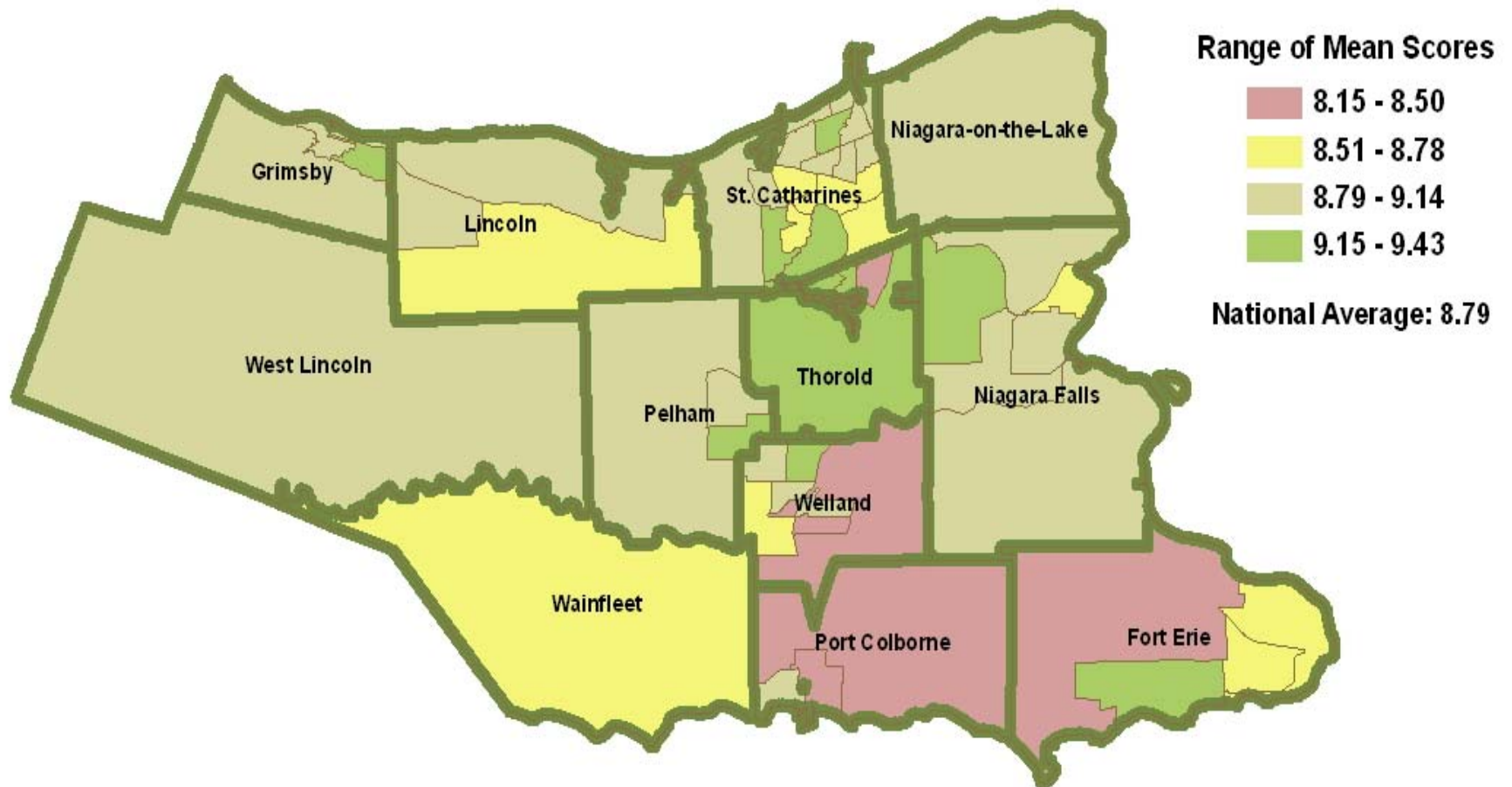
Amalgamated Neighbourhoods in Municipalities of Niagara Region



Data Sources
Amalgamated Neighbourhoods: UEY & Public Health, 2007/03
Base Map Features: Region of Niagara, 2006
Produced by: UEY & Offord, 2007
© 2007 - UEY/ECCDC



Physical Health and Well-being Means by Neighbourhoods in Niagara Region



Data Sources

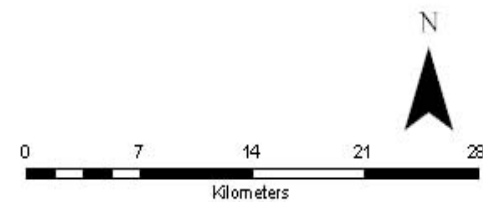
EDI Data: UEY & Offord Centre Centre for Child Studies, 2006

Amalgamated Neighbourhoods: UEY & Public Health, 2007/03

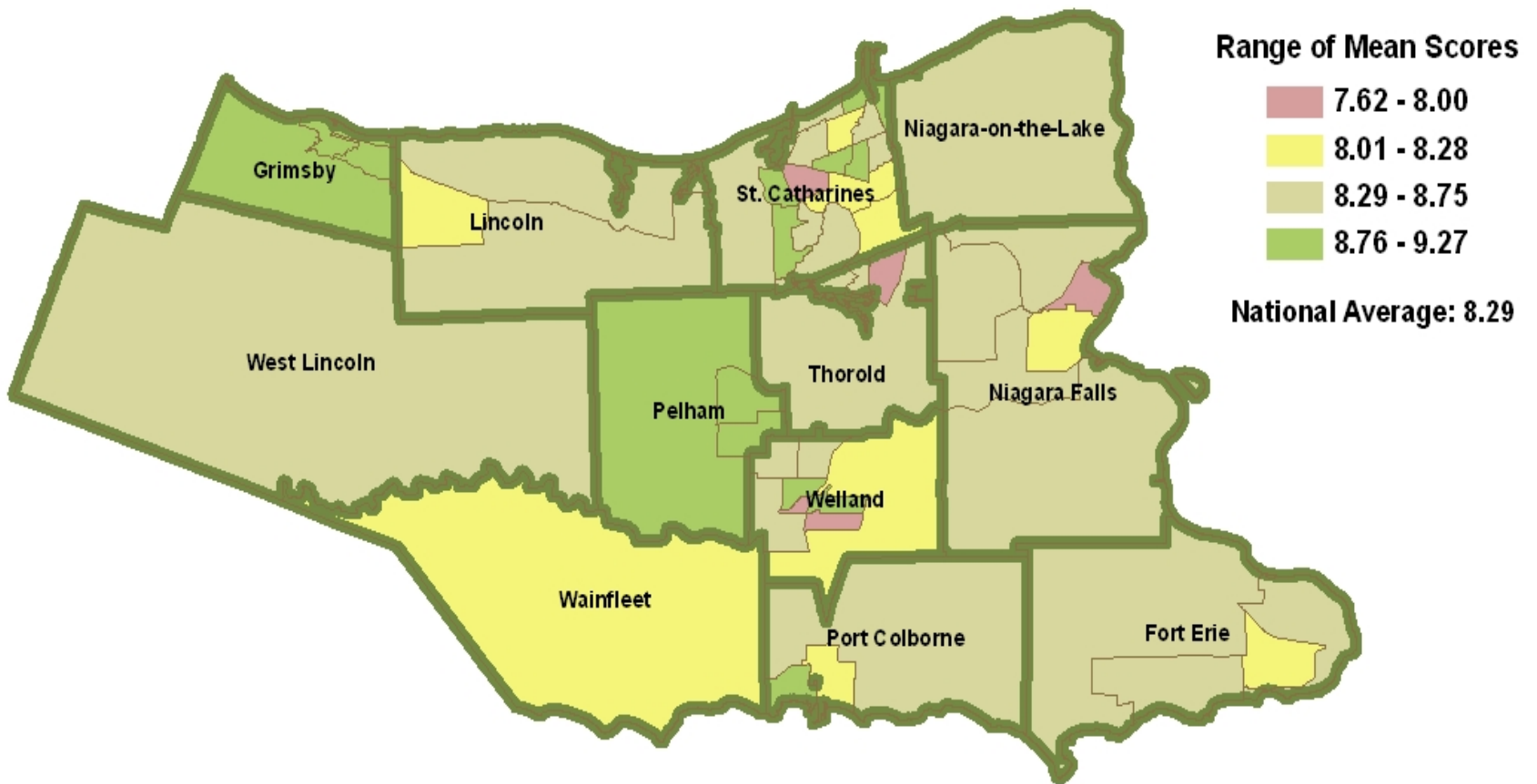
Base Map Features: Region of Niagara, 2006

Produced by: UEY & Offord, 2007

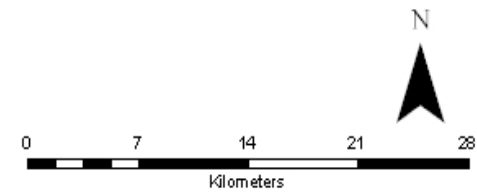
© 2007 - UEY/ECCDC



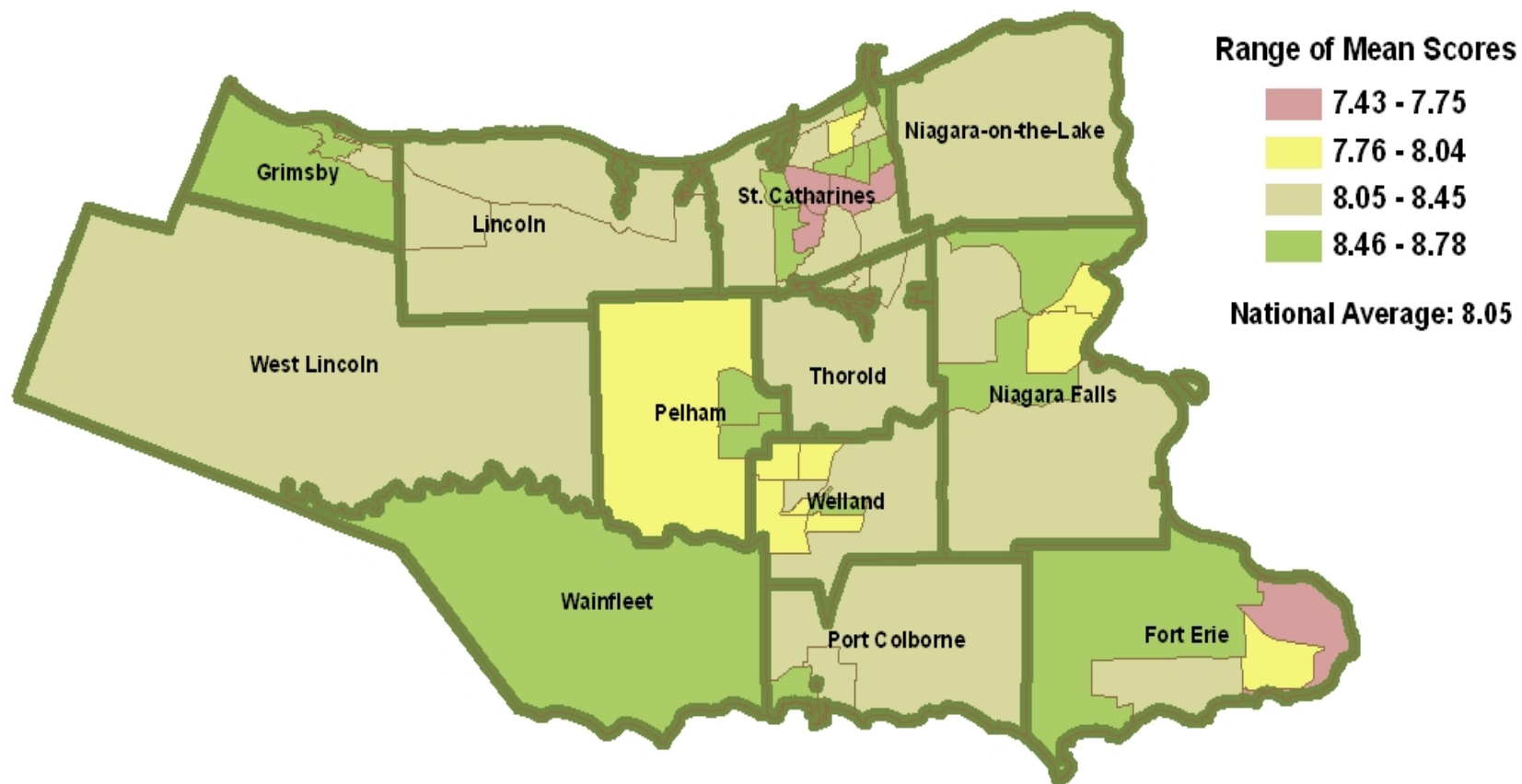
Social Competence Means by Neighbourhoods in Niagara Region



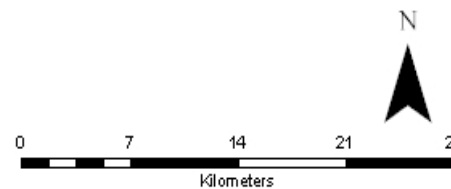
Data Sources
EDI Data: UEY & Offord Centre Centre for Child Studies, 2006
Amalgamated Neighbourhoods: UEY & Public Health, 2007/03
Base Map Features: Region of Niagara, 2006
Produced by: UEY & Offord, 2007
© 2007 - UEY.ECDC



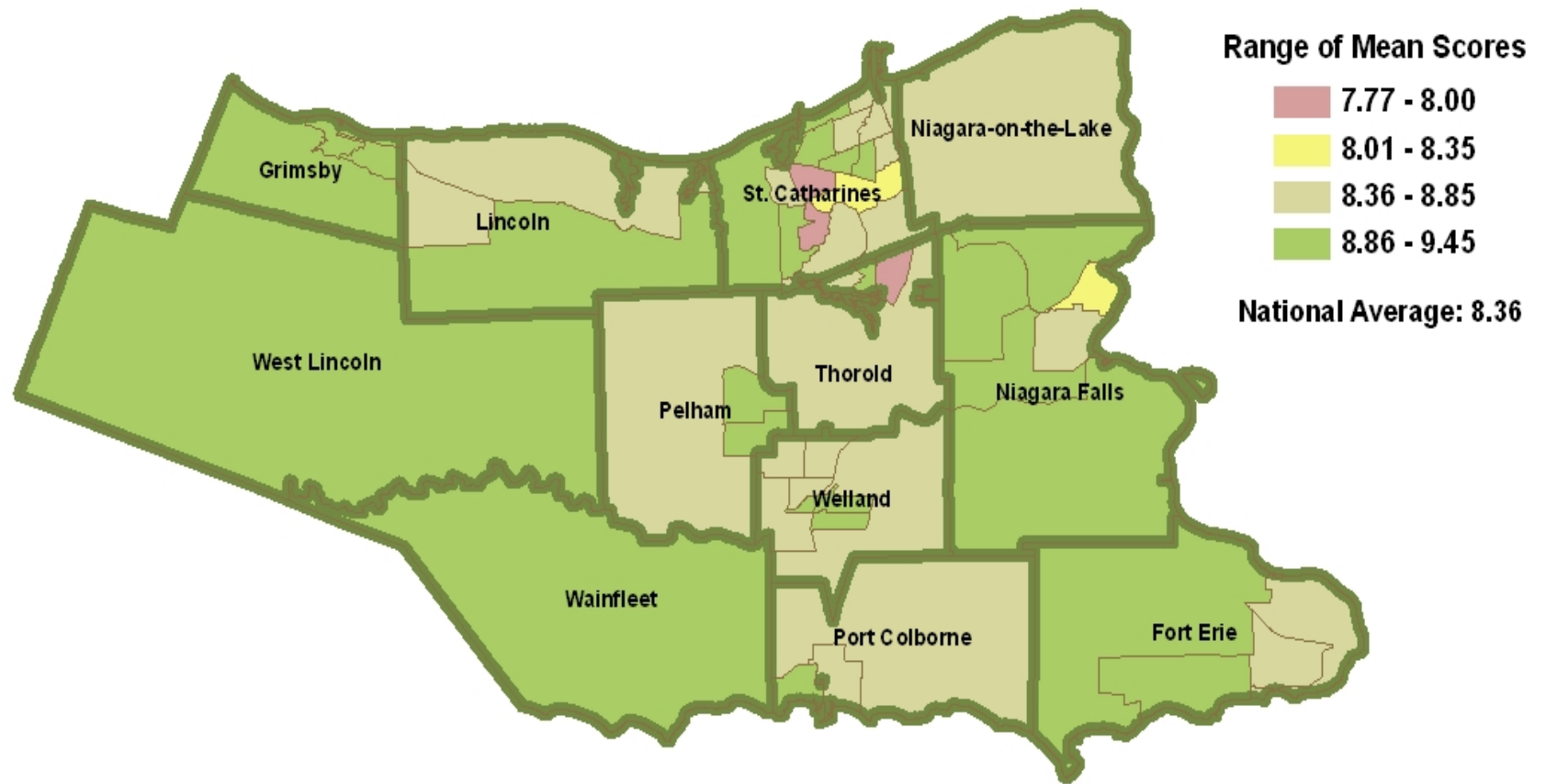
Emotional Maturity Means by Neighbourhoods in Niagara Region



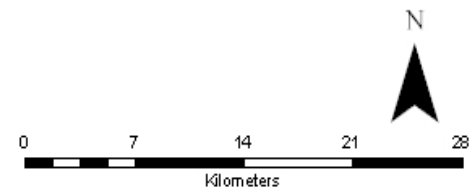
Data Sources
EDI Data: UEY & Offord Centre Centre for Child Studies, 2006
Amalgamated Neighbourhoods: UEY & Public Health, 2007/03
Base Map Features: Region of Niagara, 2006
Produced by: UEY & Offord, 2007
© 2007 - UEY/ECCDC



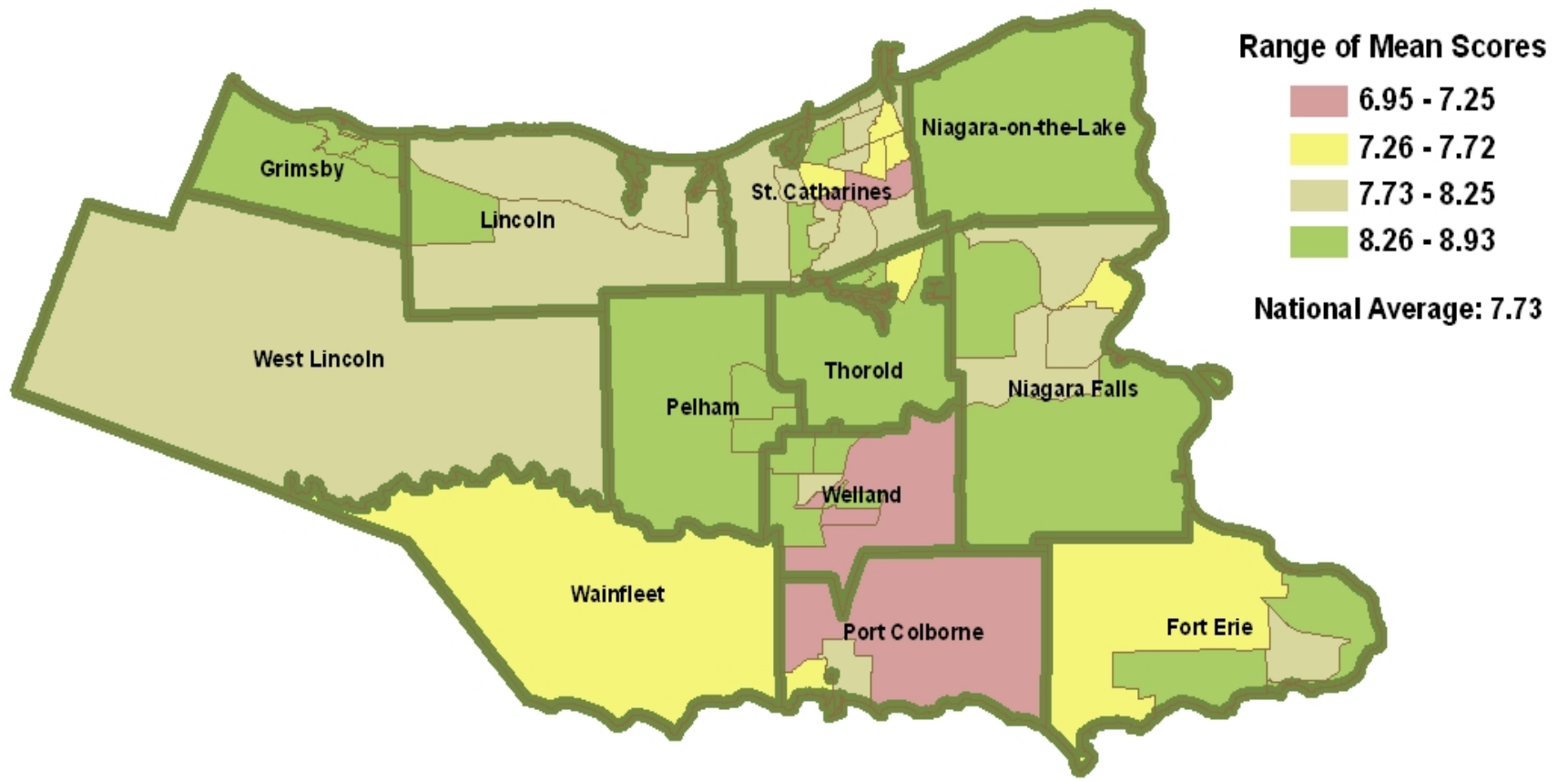
Language and Cognitive Development Means by Neighbourhoods in Niagara Region



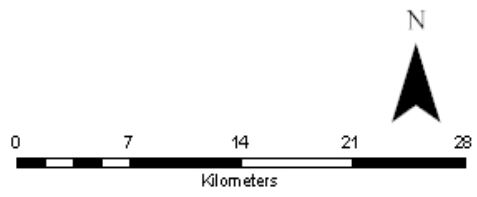
Data Sources
EDI Data: UEY & Offord Centre Centre for Child Studies, 2006
Amalgamated Neighbourhoods: UEY & Public Health, 2007/03
Base Map Features: Region of Niagara, 2006
Produced by: UEY & Offord, 2007
© 2007 - UEY/ECDC



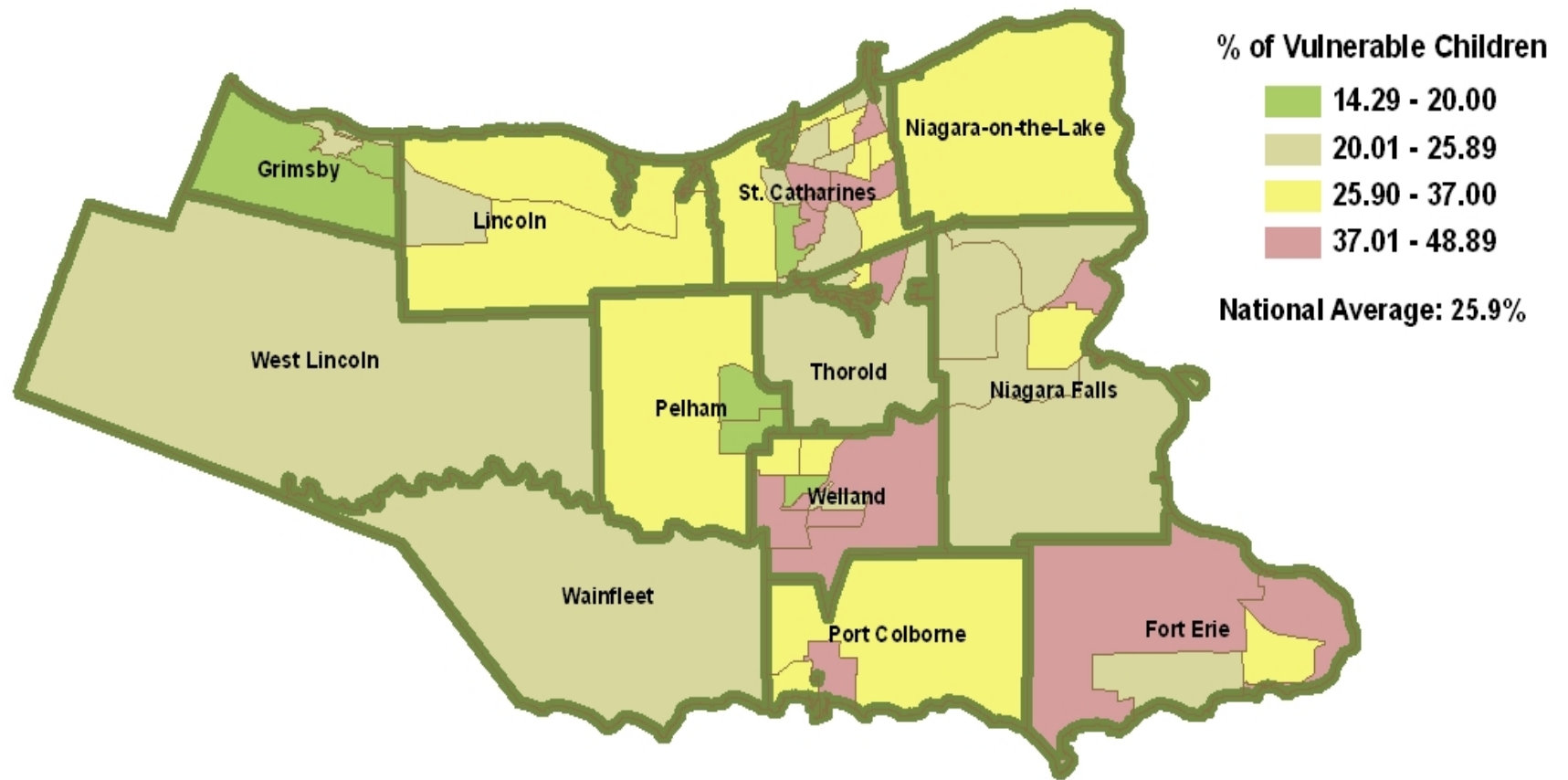
Communication Skills & General Knowledge Means by Neighbourhoods in Niagara Region



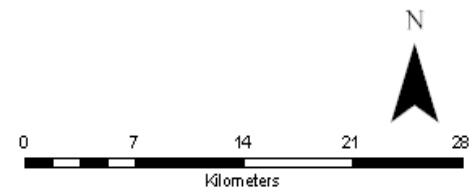
Data Sources
 EDI Data: UEY & Offord Centre Centre for Child Studies, 2006
 Amalgamated Neighbourhoods: UEY & Public Health, 2007/03
 Base Map Features: Region of Niagara, 2006
 Produced by: UEY & Offord, 2007
 © 2007 - UEY/ECCDC



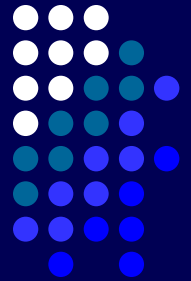
% of Vulnerable Children by Neighbourhoods in Niagara Region



Data Sources
 EDI Data: UEY & Offord Centre Centre for Child Studies, 2006
 Amalgamated Neighbourhoods: UEY & Public Health, 2007/03
 Base Map Features: Region of Niagara, 2006
 Produced by: UEY & Offord, 2007
 © 2007 - UEY/ECDC



Local UEY Impacts:

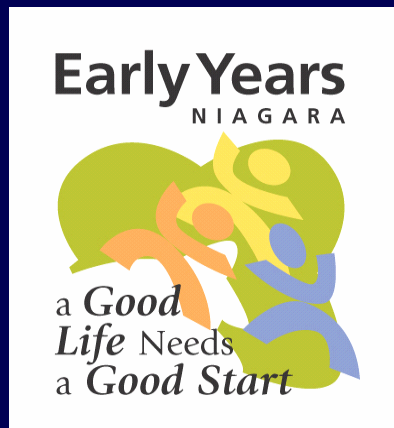
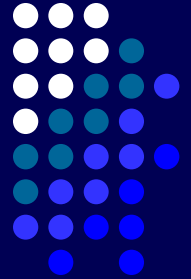


To-date, the data has been used to:

- 1. Identify program and service needs;**
- 2. Plan and make decisions;**
- 3. Allocate resources;**
- 4. Write proposals; and**
- 5. Support professional development.**

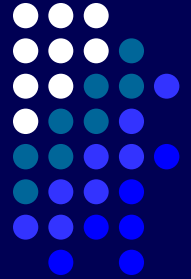
Some examples...

Early Years Niagara / Early Years Niagara Research Group:



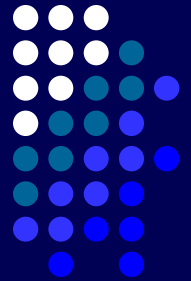
- **Transition to School Working Group** partnered with UEY Niagara Falls and other community organizations to develop the **Off to School Calendar** in both English and French (2005, 2006, 2007);
- **8500** of these were distributed to all parents registering children in SK;
- **One month** outlines EDI domains & associated tips for parents.

Early Childhood Community Development Centre



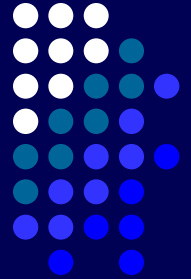
- **Community knowledge building to build awareness of the importance of the first six years of life:**
 - Professional Development & Training;
 - Expert Speakers;
 - Resource / Educational Materials in ECCDC;
 - Resource Library;
 - Conference Displays;
 - Capacity Building Development & Training; and
 - Conferences:
 - 2002 Connecting Research to Practice
 - 2004 Niagara Summit on Human Development.

Regional Municipality of Niagara:



- **Children's Services Department used research to assist with site planning and selection.**
- **UEY contributed to Niagara Parenting Conference coordinated by Public Health Department and Brock.**
- **UEY presentations to Healthy Babies, Healthy Children for Public Health Department.**
- **Ongoing collaboration with Data Analysis Coordinator:**
 - **Neighbourhood Creation Project and**
 - **2006 Community Resource Inventory.**

Niagara Catholic District School Board (NCDSB):

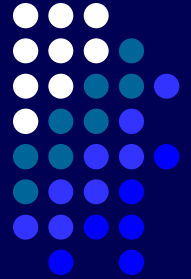


Used UEY data, in conjunction with own research, for:

- Programming and resource allocation purposes,
- Planning professional development,
- Justifying programs, and
 - For example, the “Lion’s Quest” Social Skills Program
- Target setting and evidence-based decision-making.
 - For example, “Boys and Literacy Improvement Plan 2004-2008”



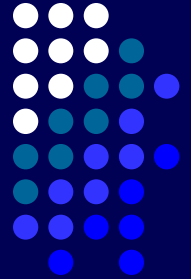
District School Board of Niagara (DSBN):



Used UEY findings to:

- **Increase educator awareness regarding the importance of the early years in setting trajectories for learning, health and behaviour,**
- **Provide direction for professional development activities, and**
- **To support decision-making concerning services and placement of child care programs within schools.**

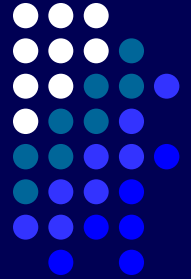
Ontario Early Years Centers – Niagara Falls:



Used UEY data to:

- Plan sites mobile resources and satellite services,
- Develop, adjust and resource programs,
 - For example, snacks for programs in high need areas
- Support successful proposals, and
 - For example, the “Count Me In” Program
- Provide evidence for a community need.
 - For example, the summer “School’s Cool” program
- Plan professional development for staff.

Provincial & National Impacts:



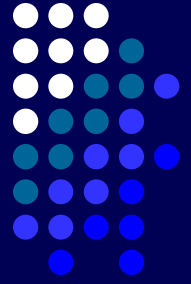
Provincially:

- Ontario Early Years Initiative
- Ministry of Community, Family & Children's Services
- Ontario Association of Home Child Care Providers
- Association of Ontario Health Centres
- Halton-Hamilton 2007 Early Years Conference Steering Committee

Nationally:

- Social Development Canada
- University of Guelph
- Canadian Child Care Federation

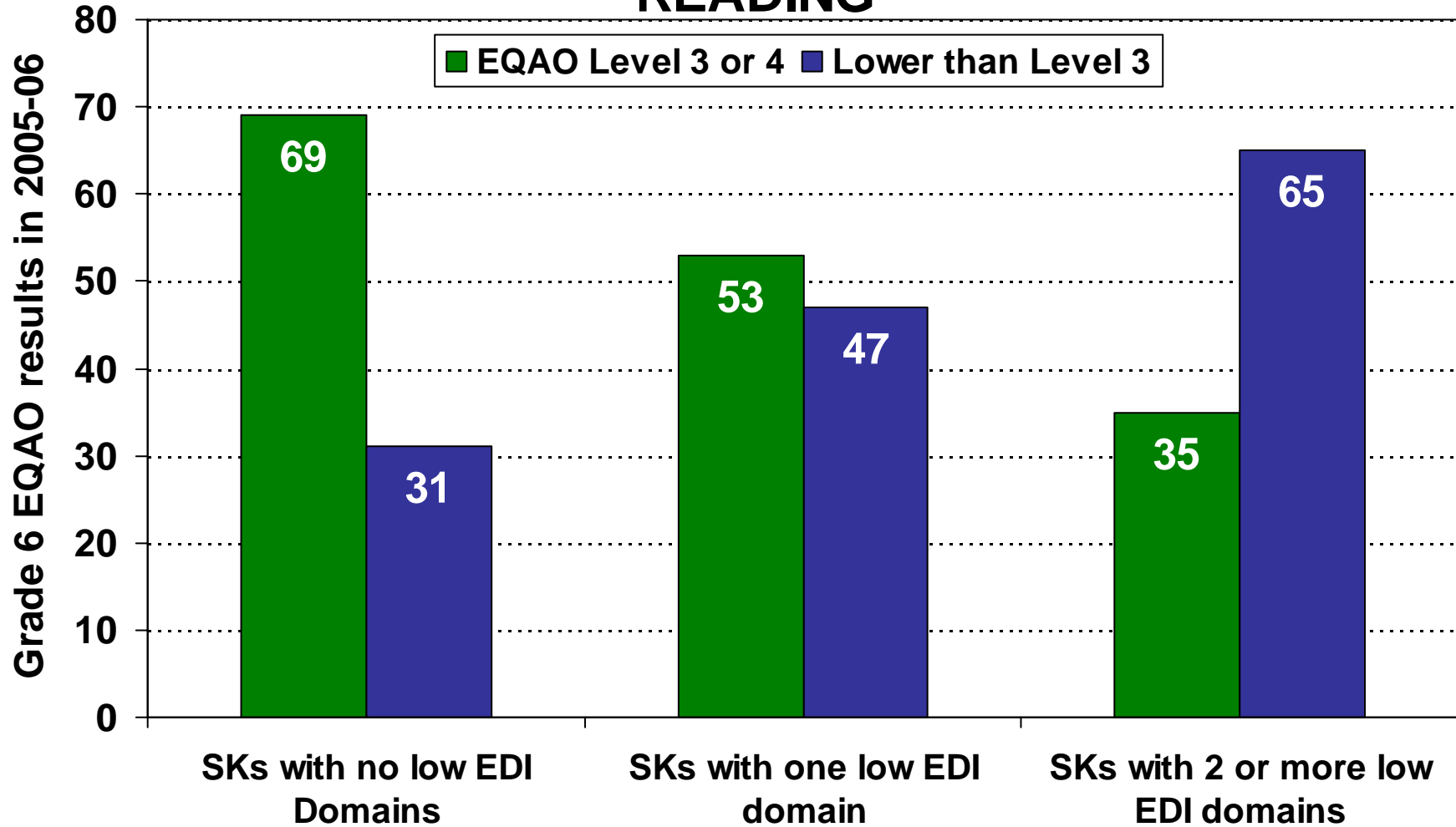
Use of EDI in other areas in Canada



- Toronto
 - Relationship b/w EDI + Gr.6 EQAO scores
- BC
 - Neighbourhood level
 - Relationship b/w EDI + SES
- Halton
 - Neighbourhood level
 - Relationship b/w EDI + several other variables

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

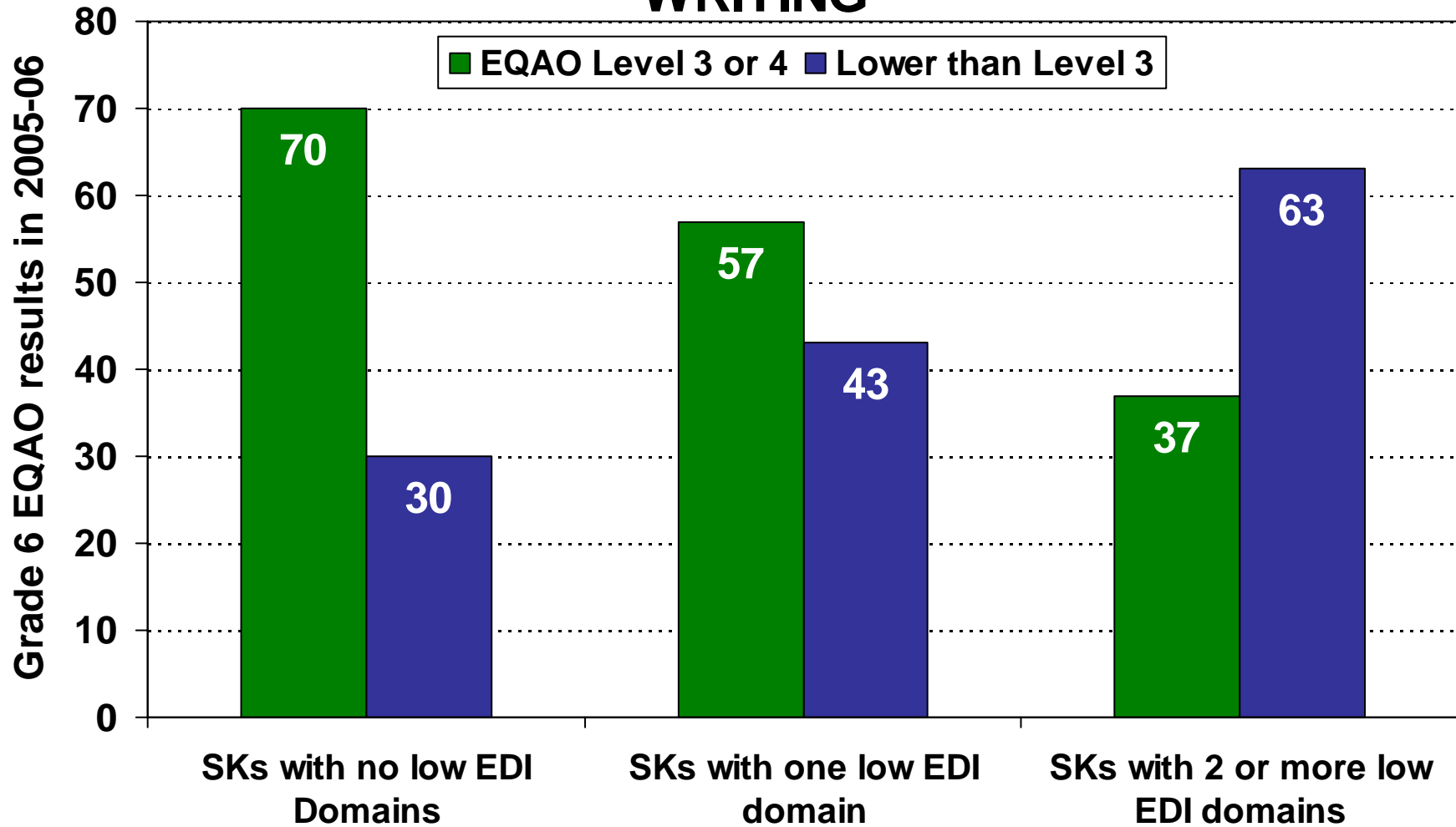
READING



1999-2000 North York SK Cohort

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

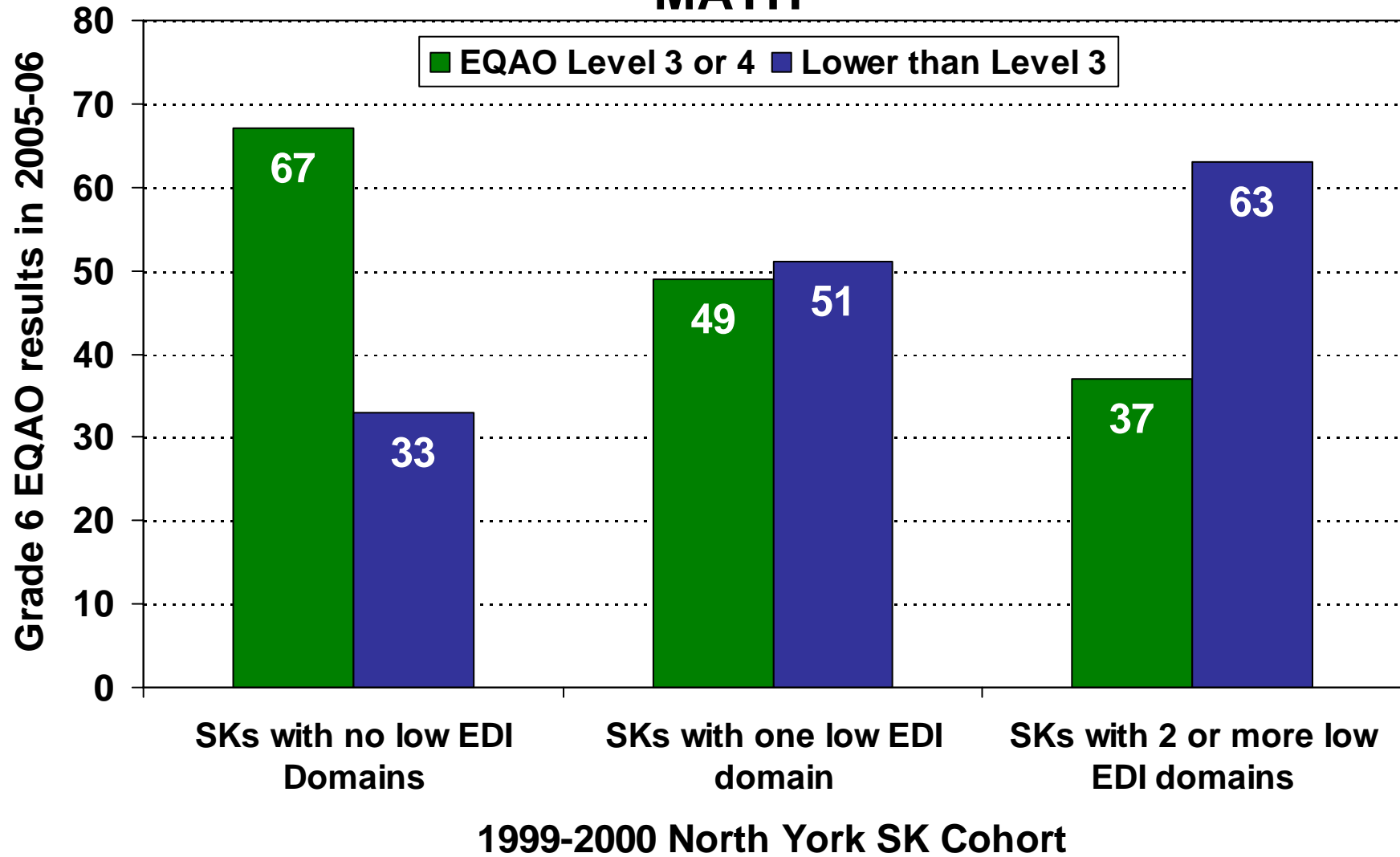
WRITING

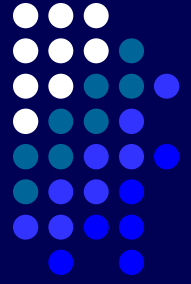


1999-2000 North York SK Cohort

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

MATH





British Columbia

- 25% of BC kindergarteners are challenged developmentally (HELP); similarly
- 25% of BC students do not complete high school (2001 Census)

Coincidence?

Chilliwack / Fraser-Cascade

2005

Physical Health and Well-being

Average Score		
2002	2005	
9.33 ▼	9.23	Promontory/Ryder Lake
8.64 ▲	8.92	Yarrow/Cultus Lake
9.11 ▼	8.70	Sardis East
8.72 ▼	8.65	Sardis West
8.45 ▲	8.65	Hope
8.92 ▼	8.59	Sardis South
8.59 ▼	7.99	Rosedale/Chilliwack East
8.07 ▼	7.72	Chilliwack South
8.83 ▼	7.71	Agassiz - Harrison
8.22 ▼	7.60	Chilliwack West
8.77 ▼	7.59	Fairfield/Little Mountain
8.11 ▼	7.32	Chilliwack North
supp—	supp	Greendale/Chilliwack Mtn.

Notes:

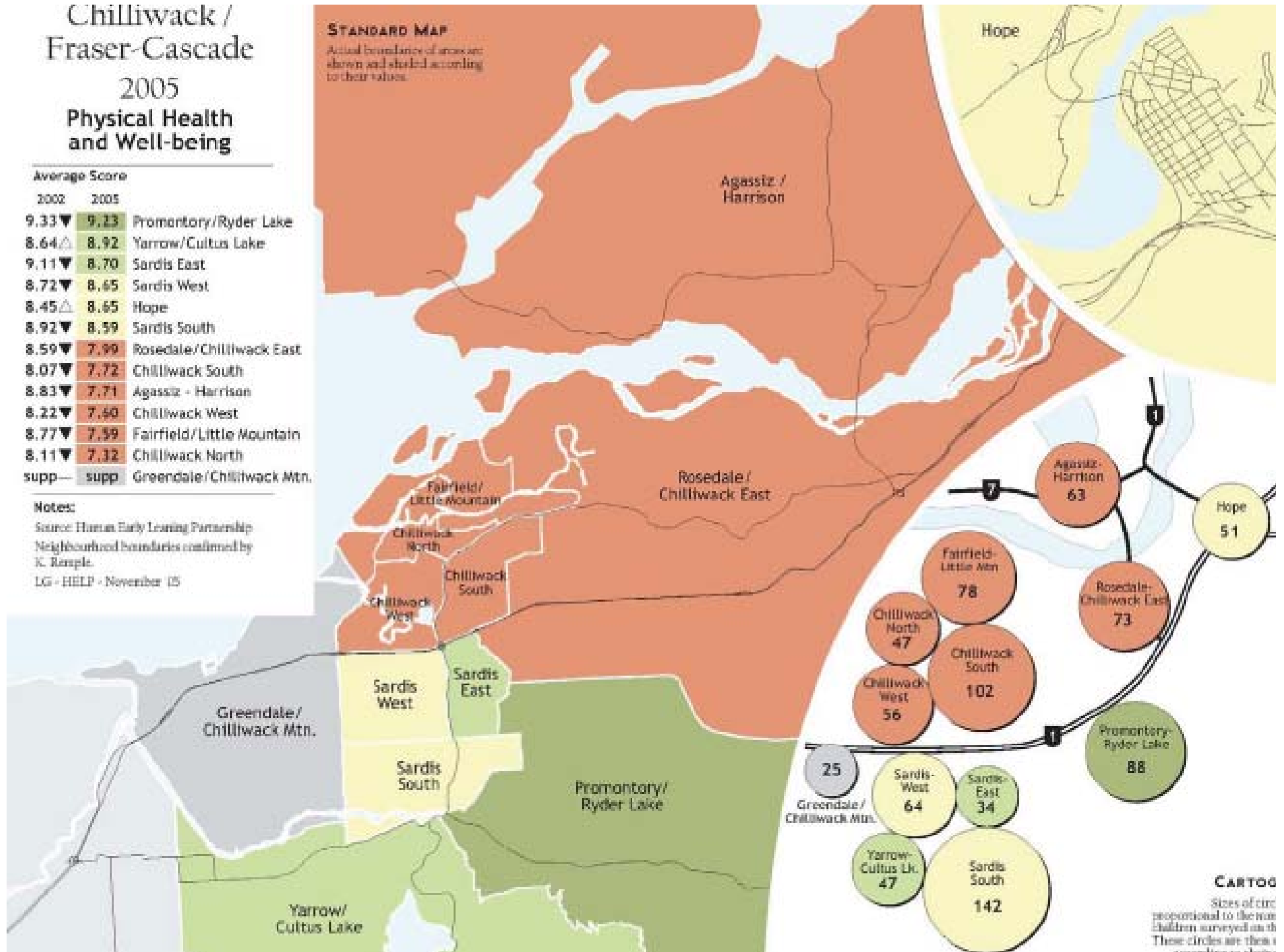
Source: Human Early Learning Partnership

Neighbourhood boundaries confirmed by
K. Rempel.

LG - HELP - November 05

STANDARD MAP

Actual boundaries of areas are
shown and shaded according
to their values.



CARTOG

Sizes of circ
proportional to the non-
children surveyed in th
These circles are then
according to their

Vancouver

2004

Physical Health and Well-being

Percent of children deemed vulnerable (Provincial cutoffs)

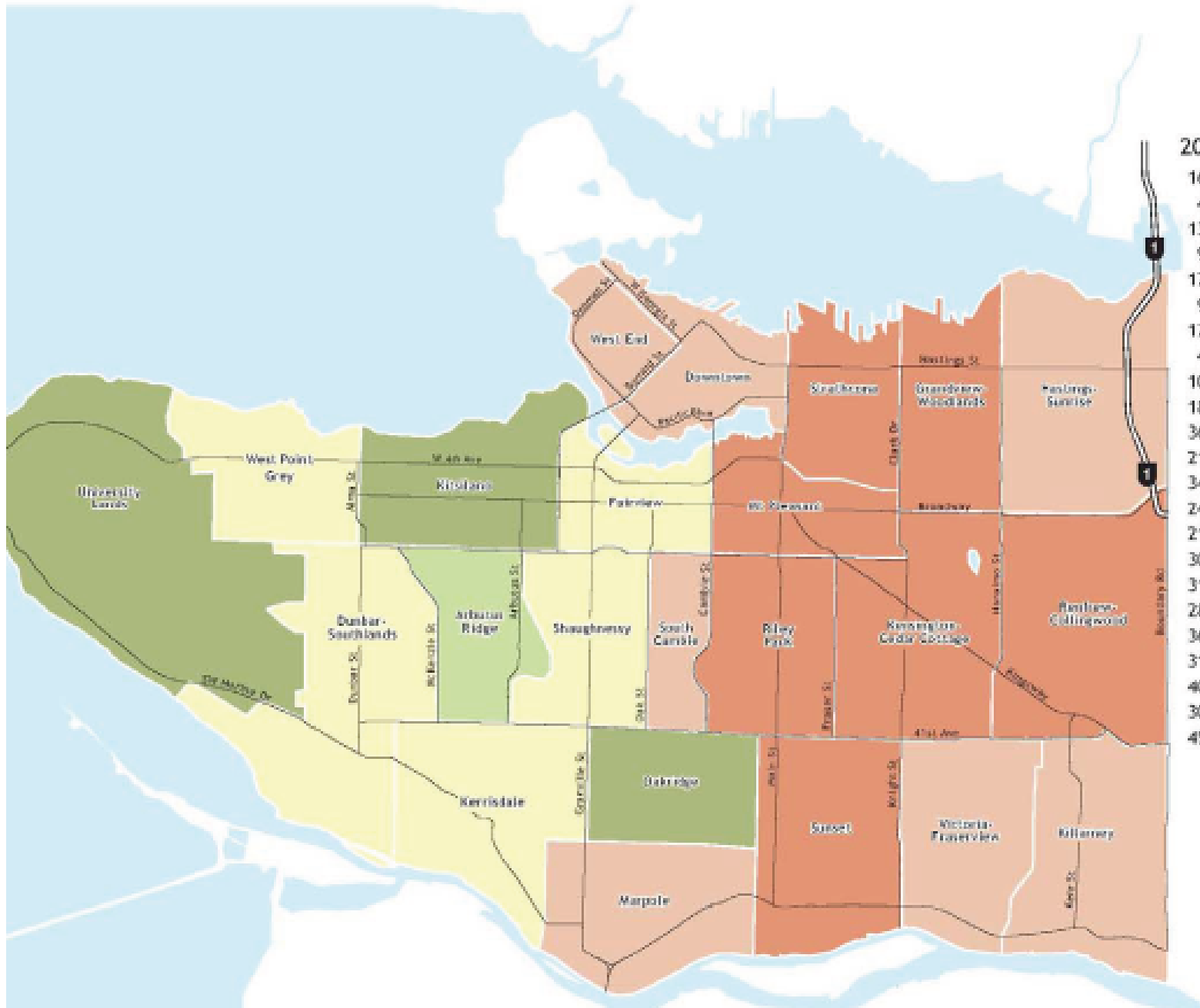
2000	2004	
16.1	1.6	Oakridge
4.8	3.1	University Lands
13.8	3.6	Kitsilano
9.1	5.6	Arbutus - Ridge
17.1	7.2	Fairview
9.8	7.4	West Point Grey
17.0	7.5	Shaughnessy
4.4	8.2	Kerrisdale
10.8	8.5	Dunbar - Southlands
18.2	10.3	South Cambie
36.5	11.2	Marpole
21.7	11.5	Victoria - Fraserview
34.8	11.7	West End
24.0	11.7	Downtown
21.9	11.9	Killarney
30.2	13.7	Hastings - Sunrise
31.3	14.3	Renfrew - Collingwo
28.5	18.6	Kensington - Cedar (
36.5	19.2	Sunset
31.3	22.4	Mount Pleasant
40.5	23.1	Strathcona
30.6	23.6	Riley Park
45.2	23.8	Grandview - Woodla

Notes to map:

Source: EDN 2000 and 2004, Human Learning Partnership.

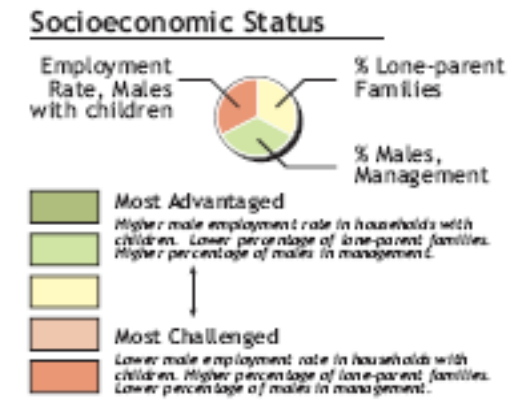
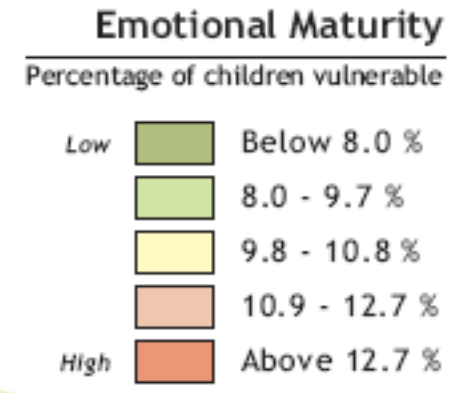
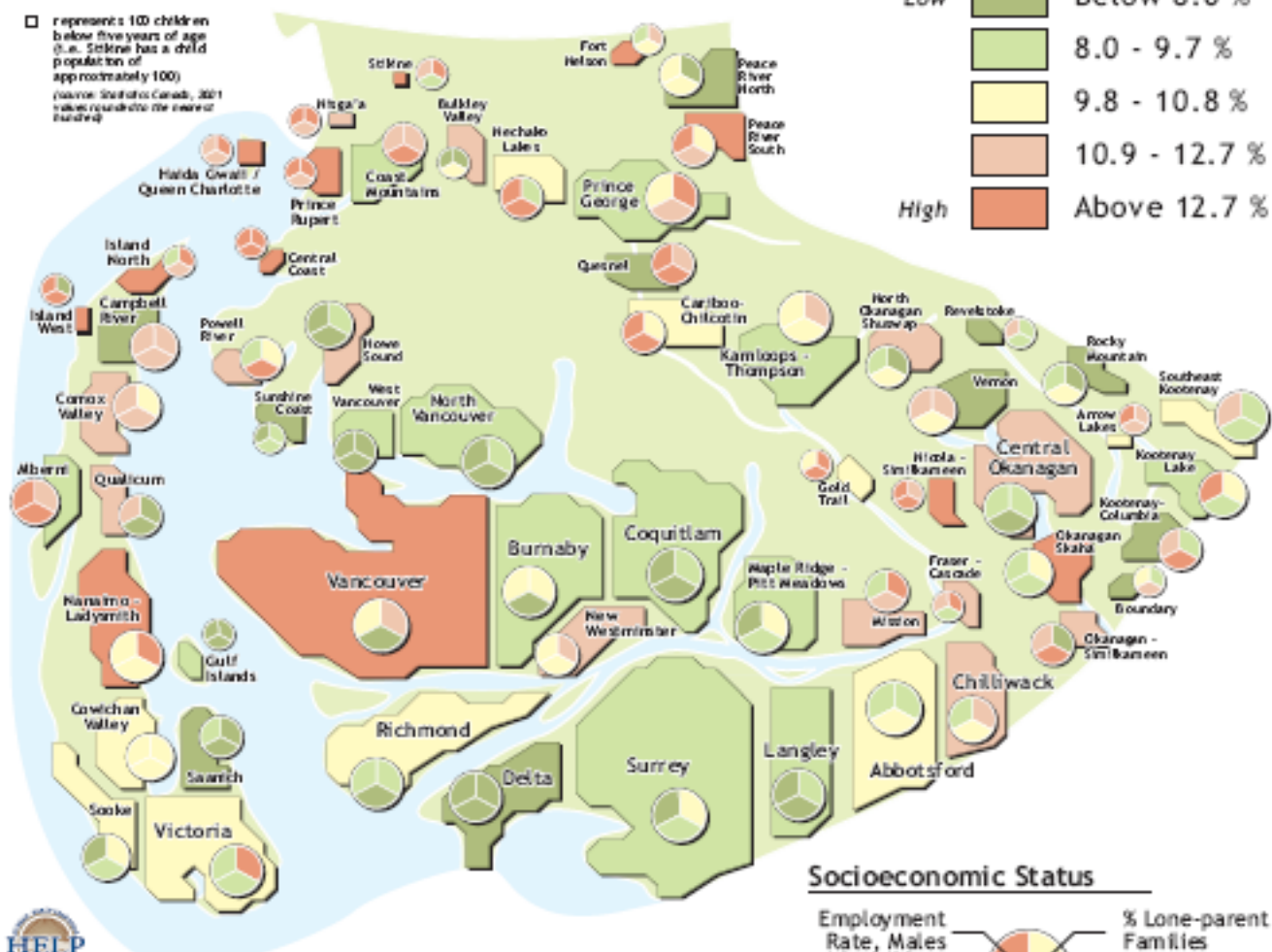
Boundaries provided by the City of Vancouver.

LG - HELP - August 2005



SDP District	Percent Vulnerable	Average Score	Emp Rate, males with Children	% Lone-parent Families	% Males, Management
28 Quasnel	4.5	7.89	75.0	17.3	7.9
19 Revelstoke	5.5	8.29	79.5	15.0	11.1
63 Saanich	5.9	8.15	88.6	10.1	16.9
20 Kootenay - Columbia	6.3	8.22	82.5	14.3	8.6
72 Campbell River	6.7	8.16	82.9	17.0	9.2
37 Delta	6.8	8.17	93.4	12.3	15.7
6 Rocky Mountain	6.9	8.26	86.9	13.2	10.9
60 Peace River North	7.1	8.23	85.9	13.1	10.0
22 Vernon	7.4	8.00	78.2	17.1	10.8
46 Sunshine Coast	7.4	8.20	94.4	14.0	12.0
51 Boundary	7.8	8.19	83.3	14.5	9.4
35 Langley	8.0	8.06	92.0	14.2	15.3
44 North Vancouver	8.0	8.04	91.1	14.6	18.6
36 Surrey	8.1	8.02	89.7	15.4	12.9
43 Coquitlam	8.2	7.97	89.7	14.7	15.8
64 Gulf Islands	8.2	7.84	96.2	13.0	16.0
8 Kootenay Lake	8.3	7.79	75.7	15.9	11.3
41 Burnaby	8.7	7.95	85.5	15.9	13.5
45 West Vancouver	9.0	8.01	92.8	10.7	27.6
57 Prince George	9.1	7.97	83.5	18.1	9.4
82 Coast Mountains	9.2	7.90	78.6	17.1	8.7
42 Maple Ridge	9.5	7.84	92.2	15.5	12.8
70 Alberni	9.5	8.00	71.7	17.5	8.5
73 Kamloops - Thompson	9.7	8.01	85.0	16.6	10.6
27 Cariboo - Chilcotin	9.8	7.56	77.5	15.5	8.7
91 Nechako Lakes	9.9	7.91	75.6	15.0	6.7
34 Abbotsford	10.0	7.42	88.9	14.0	10.3
38 Richmond	10.3	7.86	86.1	13.9	16.5
62 Sooke	10.3	7.87	92.9	15.6	11.5
74 Gold Trail	10.3	7.84	83.7	17.6	7.1
79 Cowichan Valley	10.3	8.10	85.8	15.8	11.0
5 Southeast Kootenay	10.5	7.86	81.8	13.7	11.3
61 Greater Victoria	10.6	7.83	86.8	18.1	12.6
10 Arrow Lakes	10.8	7.96	71.4	16.2	8.9
48 Howe Sound	10.9	8.07	89.4	13.7	13.6
53 Okanagan - Similkameen	11.0	7.88	80.8	11.6	8.3
83 North Okanagan - Shuswap	11.1	7.97	86.9	13.5	10.9
47 Powell River	11.7	7.94	87.3	15.3	8.3
23 Central Okanagan	11.8	7.45	88.1	14.2	13.9
71 Comox Valley	11.8	7.80	82.3	15.8	9.8
78 Fraser - Cascade	11.8	7.99	80.4	18.0	12.4
54 Bulkley Valley	11.9	7.62	95.0	13.6	10.4
69 Qualicum	12.1	7.60	79.7	10.9	14.3
40 New Westminster	12.2	7.80	85.2	16.9	10.8
92 Nigla'a	12.2	7.67	50.0	23.7	8.9
75 Mission	12.6	7.69	87.1	18.1	9.6
33 Chilliwack	12.7	7.85	86.4	16.8	10.0
67 Okanagan - Skaha	13.0	7.74	88.2	15.4	12.8
59 Peace River South	14.1	7.77	75.7	15.8	8.9
52 Prince Rupert	14.3	7.55	71.8	21.9	9.4
87 Stikine	14.3	7.52	80.0	26.4	11.9
58 Nicola - Similkameen	15.2	7.42	76.9	16.7	7.8
31 Fort Nelson	15.2	7.53	88.9	17.4	10.1
89 Vancouver	15.9	7.57	83.6	17.0	13.6
68 Nanaimo - Ladysmith	16.2	7.48	83.2	17.8	11.0
85 Island North	17.8	7.49	86.1	17.6	9.3
49 Central Coast	18.9	7.44	60.0	21.7	8.0
50 Haida Gwaii	19.0	7.02	82.1	22.1	9.9
84 Island West	19.6	6.98	20.0	12.3	7.5

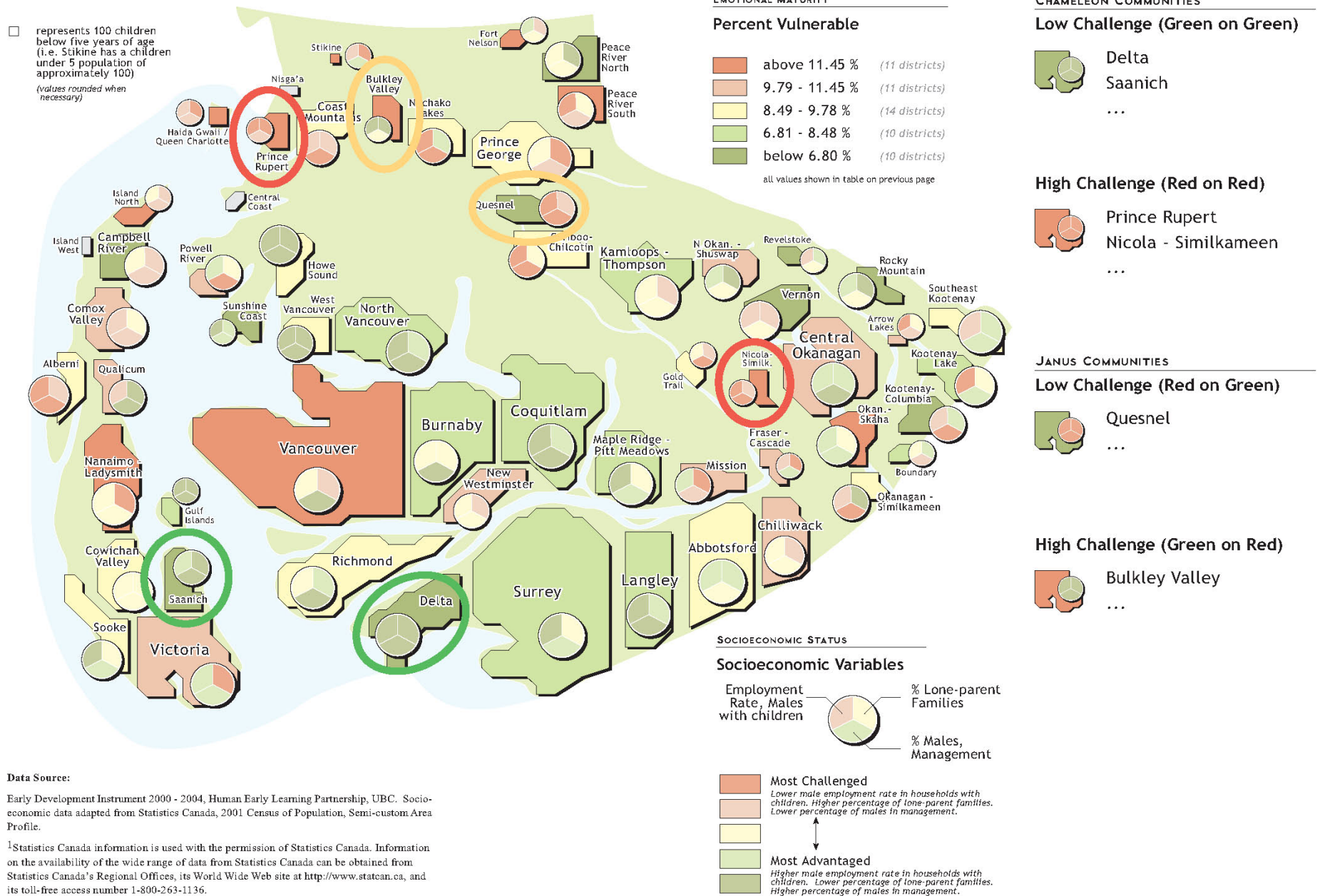
□ represents 100 children below five years of age (i.e. Stikine has a child population of approximately 100)
(source: Statistics Canada, 2011 census (available in nearest heading))



Notes:
 Source: EDI Cycle 1 (2000 - 2004), Human Early Learning Partnership. The total sample size is 43,595. For Arrow Lakes, Revelstoke, Central Coast, Vancouver/Island West and Nigla'a (districts 30, 39, 49, 84 and 92, respectively). Cycle 1 includes data from 2005 in order to increase the sample size.
 Socio-economic data adapted from Statistics Canada, 2001 Census of Population, Semi-custom Area Profile. Statistics Canada information is used with the permission of Statistics Canada. Information on the availability of the wide range of data from Statistics Canada can be obtained from Statistics Canada's Regional Offices, its WorldWide Web site at <http://www5.statcan.ca>, and its toll-free access number 1-800-265-1136.
 Colour classification is based upon quintiles.
 KT - HELP - June 2006

Map 4.4.2: Emotional Maturity and Socioeconomic Status in BC

(59 School districts)



Data Source:

Early Development Instrument 2000 - 2004, Human Early Learning Partnership, UBC. Socio-economic data adapted from Statistics Canada, 2001 Census of Population, Semi-custom Area Profile.

¹Statistics Canada information is used with the permission of Statistics Canada. Information on the availability of the wide range of data from Statistics Canada can be obtained from Statistics Canada's Regional Offices, its World Wide Web site at <http://www.statcan.ca>, and its toll-free access number 1-800-263-1136.

Figure 4.2.1: Physical Vulnerability Associated with SES

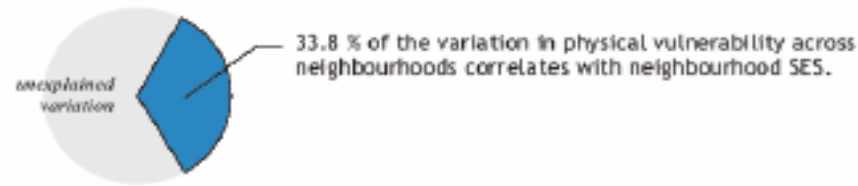


Figure 4.5.1: Language Vulnerability Associated with SES

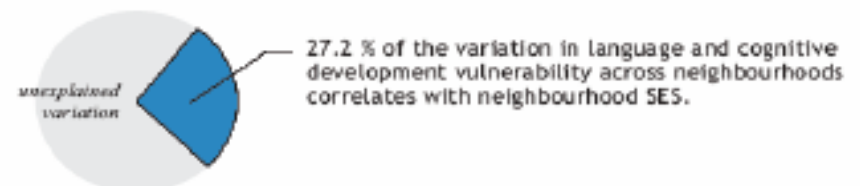


Figure 4.3.1: Social Vulnerability Associated with SES

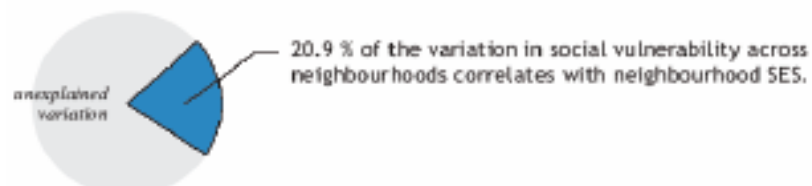


Figure 4.6.1: Communication Vulnerability Associated with SES

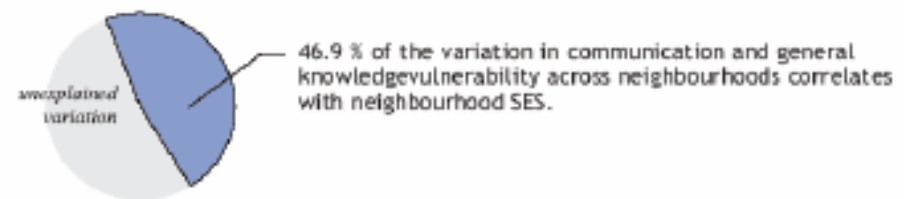


Figure 4.4.1: Emotional Vulnerability Associated with SES

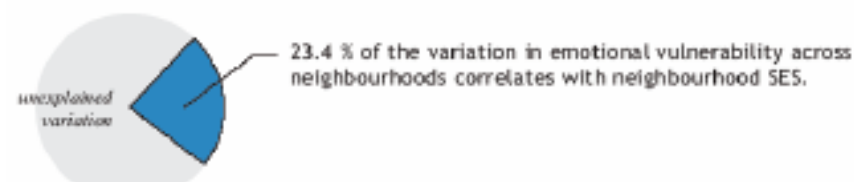
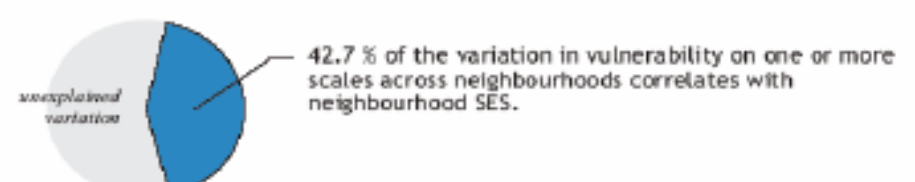
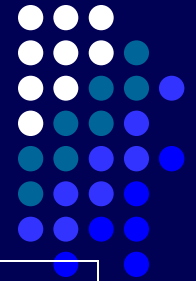


Figure 4.7.1: Vulnerability (One or More) Associated with SES



The Cost of Vulnerability: Percent 'Failing to meet expectations' & Percent 'Not Passing' on Grade 4 FSA's

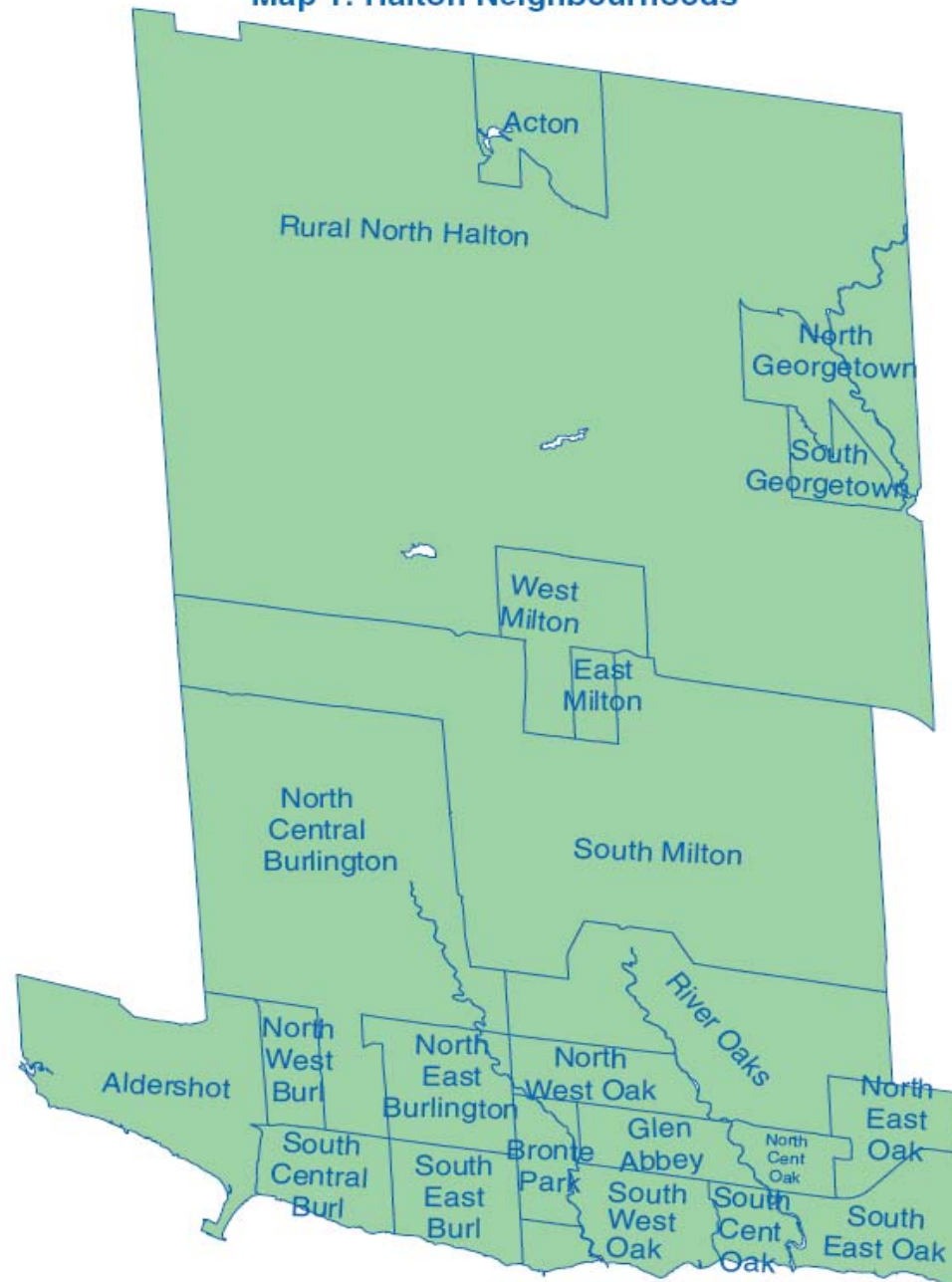


# of Vulnerabilities (kindergarten)	% Failing to meet expectations	% Not passing
Numeracy		
0	7.5	12.3
1	11.8	22.2
2-3	18.7	33.8
4-5	27.5	55.6
Reading		
0	13.6	17.8
1	26.7	33.9
2-3	29.5	43.1
4-5	48.4	68.3

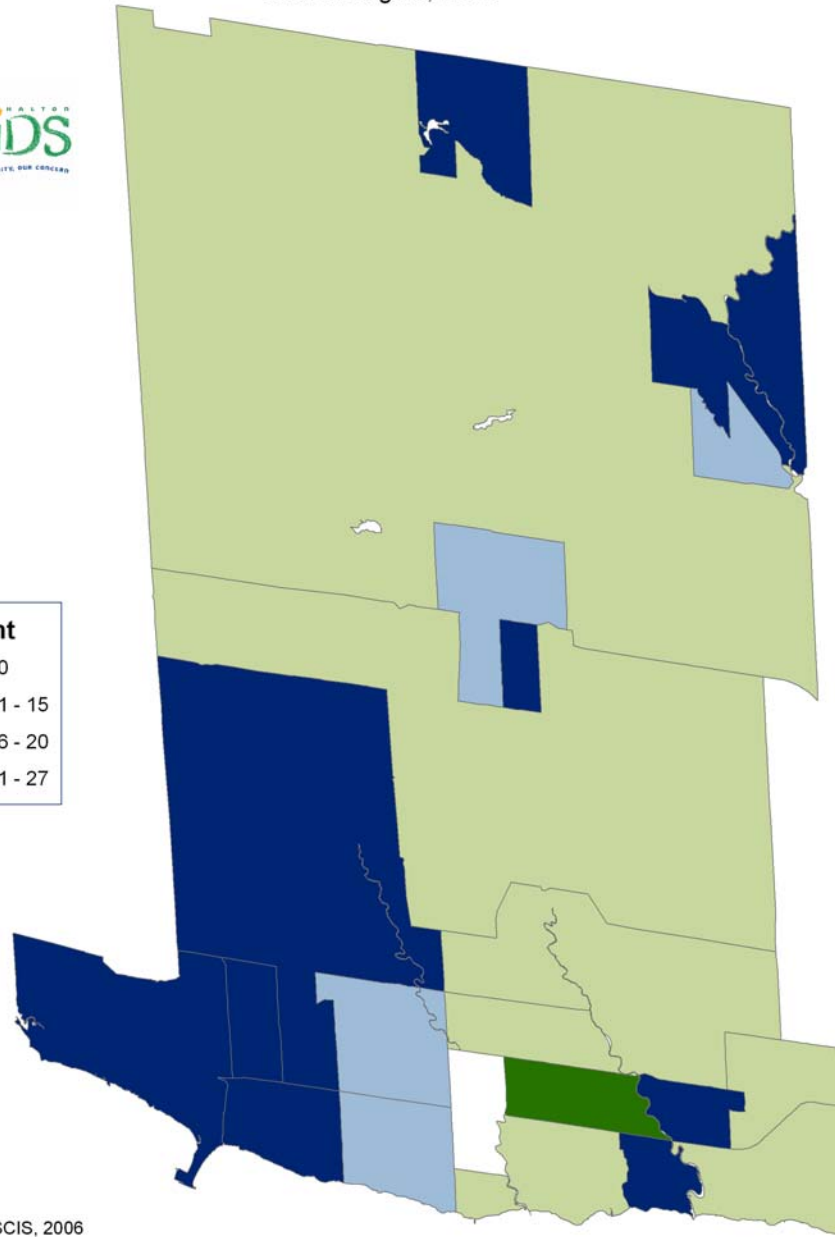
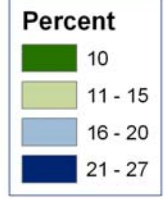
Halton

- Milton
- Burlington
- Oakville
- Acton
- Georgetown

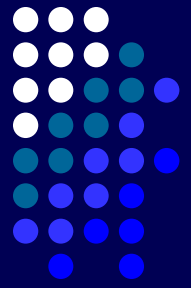
Map 1: Halton Neighbourhoods



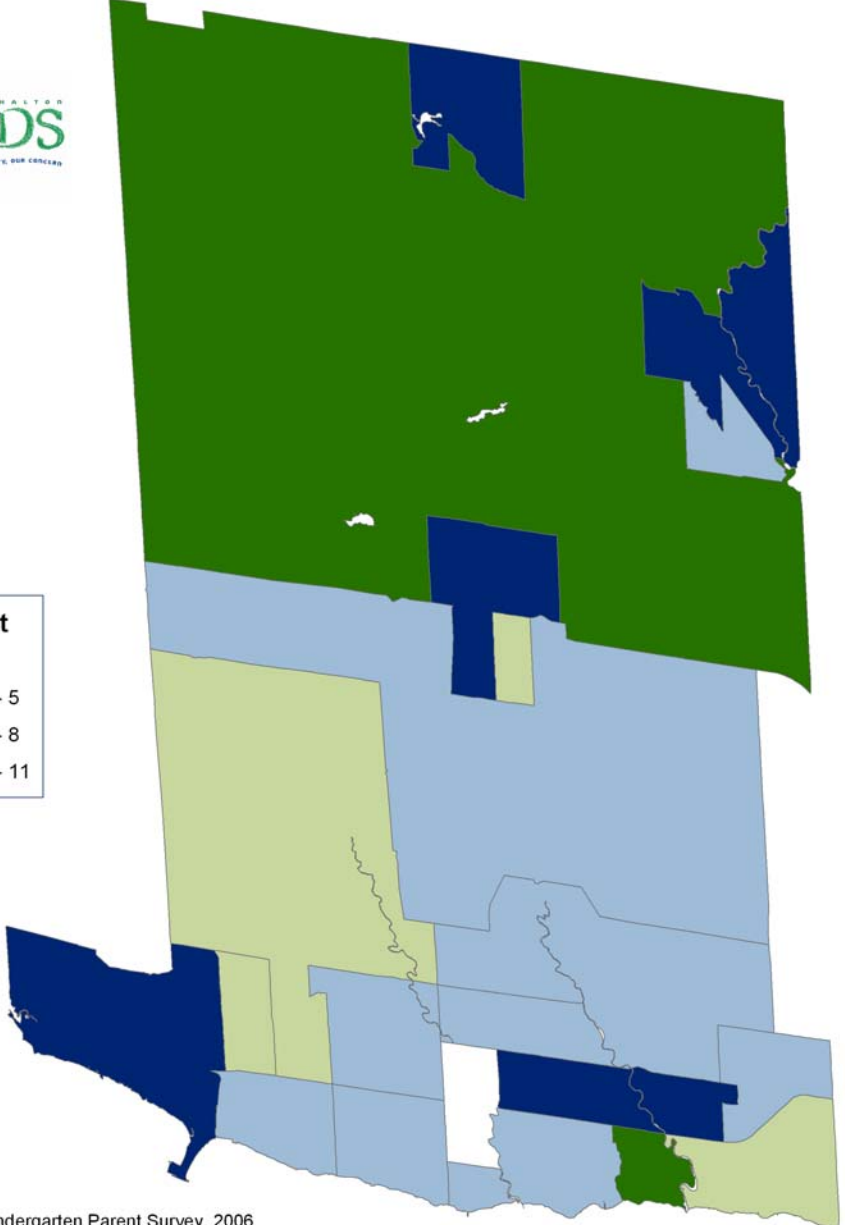
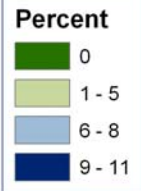
Percent of Newborn Babies At-Risk for Developmental Difficulties
Halton Region, 2006



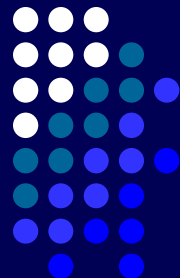
Data Source: ISCIS, 2006



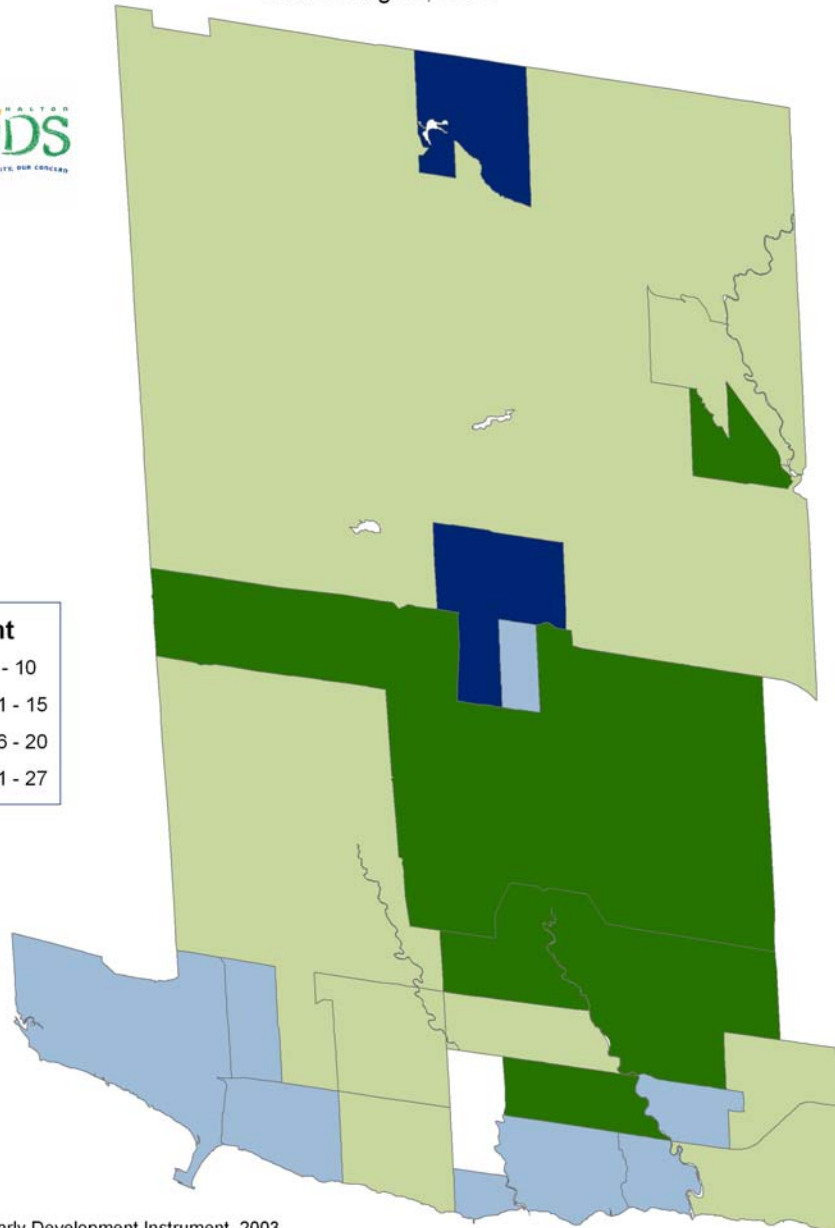
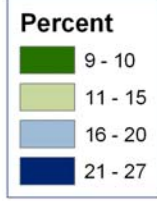
Percent of 5-Year Olds Experiencing Serious Injury
Halton Region, 2006



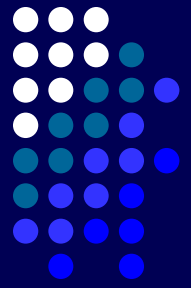
Data Source: Kindergarten Parent Survey, 2006



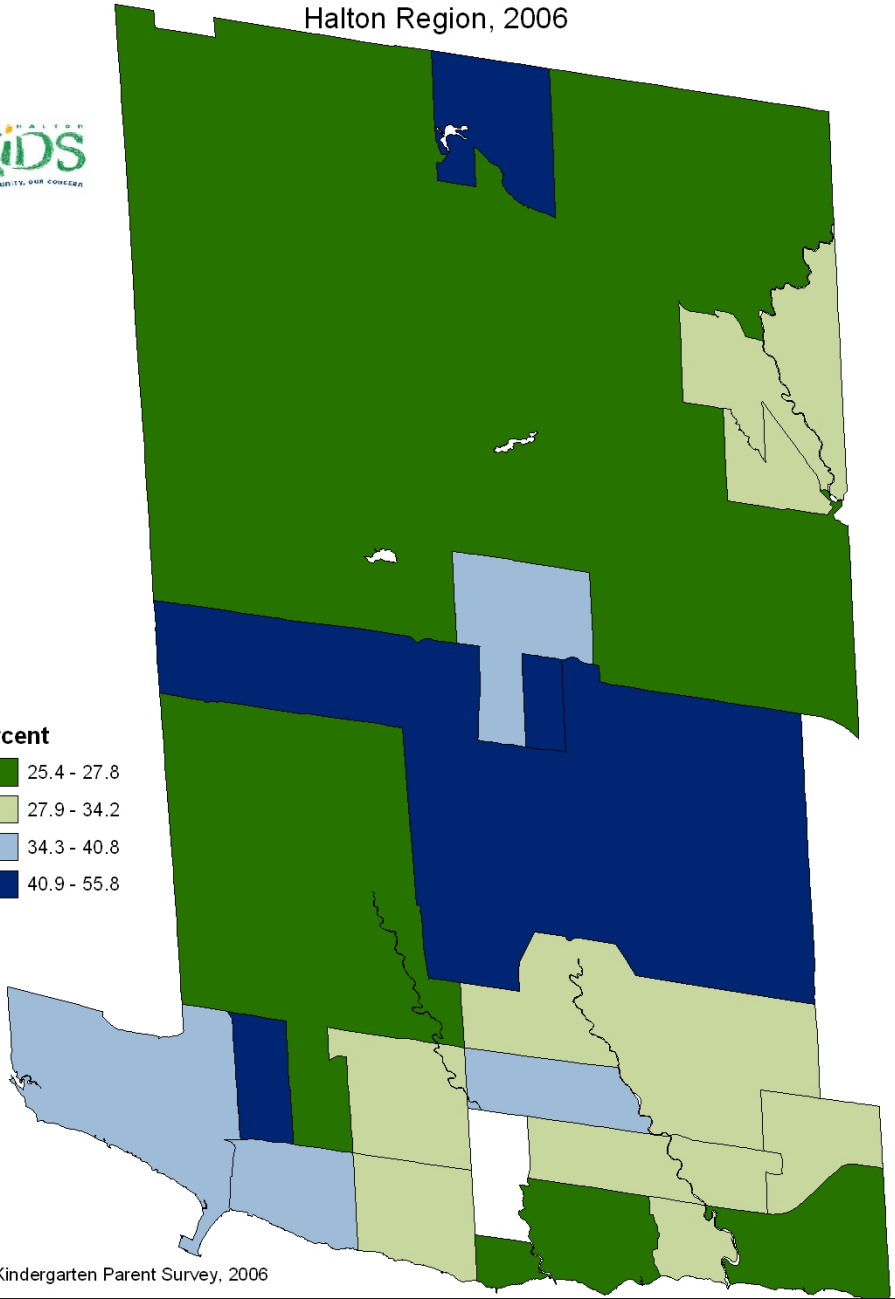
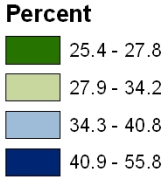
Percent of 5-Year Olds Who are Developmentally Vulnerable
Halton Region, 2006



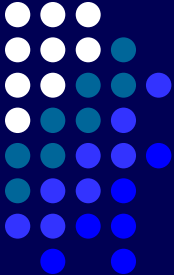
Data Source: Early Development Instrument, 2003



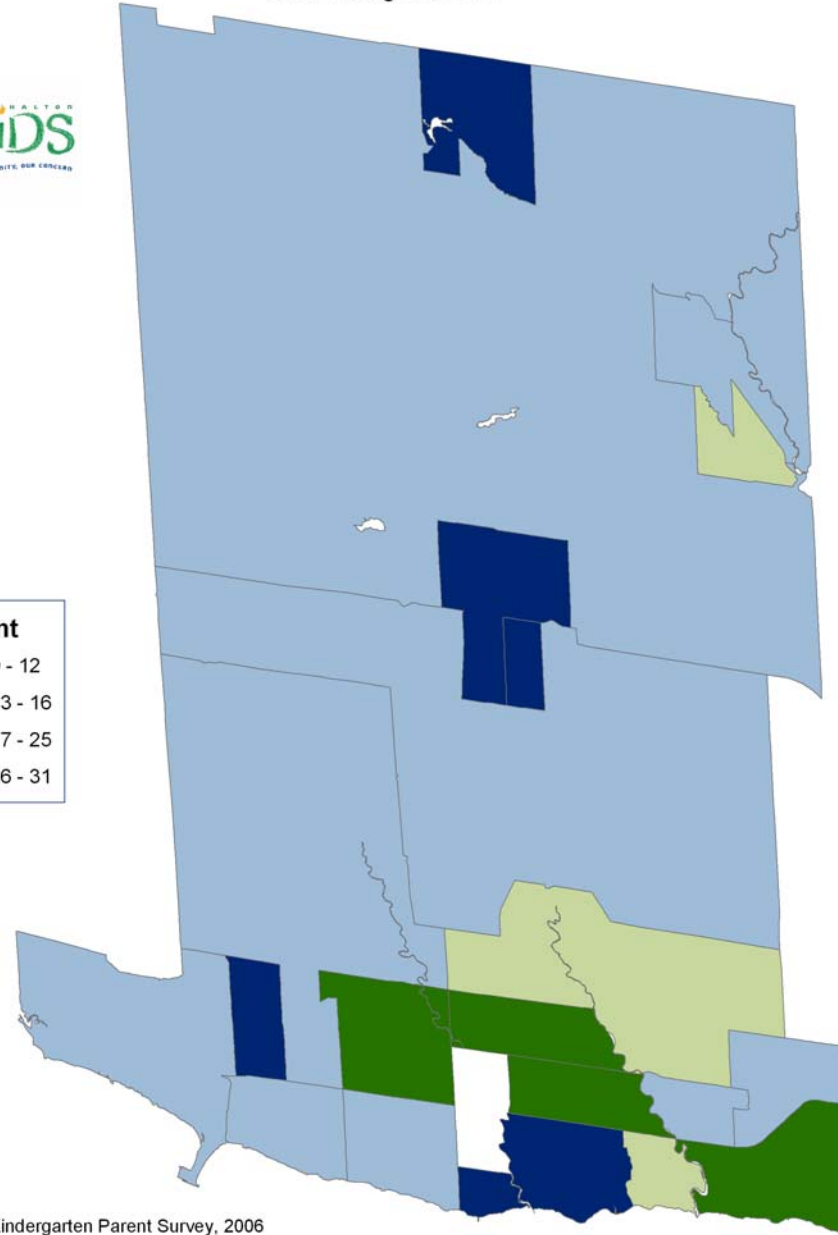
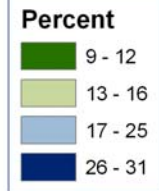
Percent of Parents of 5-years Olds Playing Who Have NOT Volunteered in the Past 12 Months Halton Region, 2006



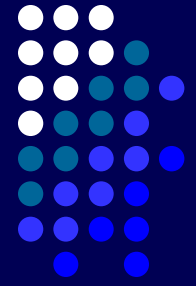
Data Source: Kindergarten Parent Survey, 2006



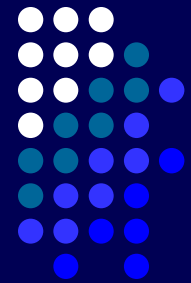
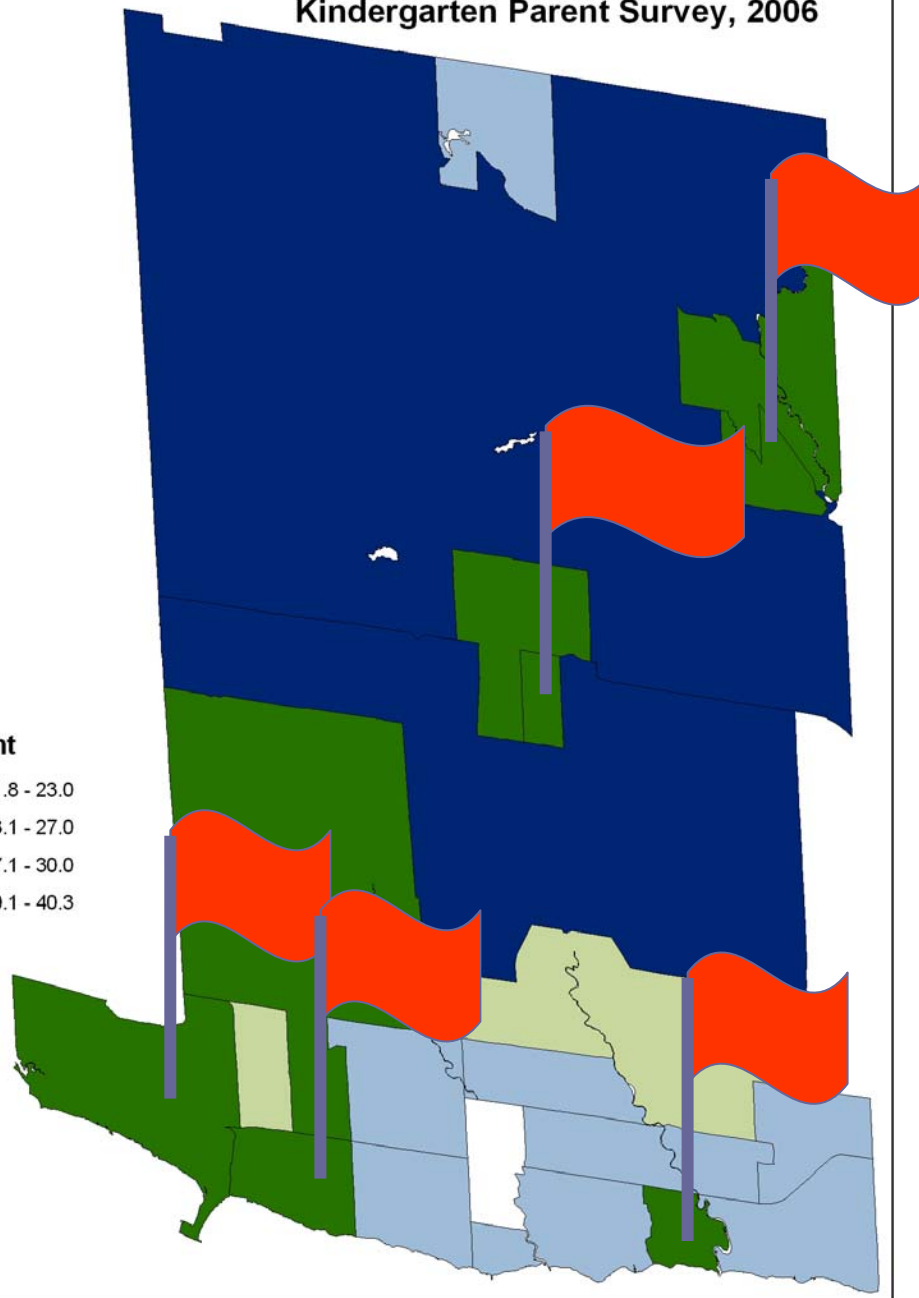
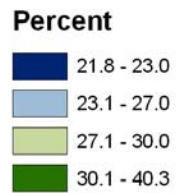
Percent of 5-Year Olds Exposed to Environmental Tobacco Smoke
Halton Region, 2006



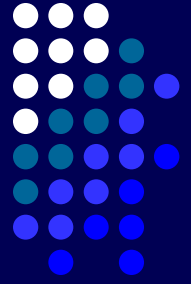
Data Source: Kindergarten Parent Survey, 2006



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



Where can we go with our EDI data?



- 2008 Community Report
 - Compare EDI from 2002, 2005, 2006, 2008
 - Compare neighbourhood data 2005, 2006 & 2008
- Look into the “why” of low EDI at neighbourhood level
- Share with community key stakeholders to improve ‘school readiness’ of children

THANK YOU FOR YOUR TIME AND ATTENTION & FOR YOUR DEDICATION TO THE CHILDREN OF NIAGARA!

eccdc

early childhood community development centre

Niagara  Region



 **Ontario**
Early Years
Petite enfance

Ontario Early Years Centres
A Place for Parents And Their Children.



Centres de la petite enfance
Un endroit pour les parents et leurs enfants.



District School Board
of Niagara

Early Years
N I A G A R A



a *Good*
Life Needs
a *Good Start*