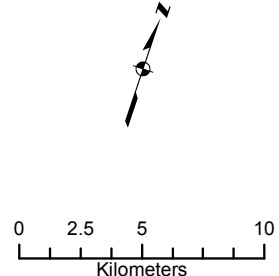
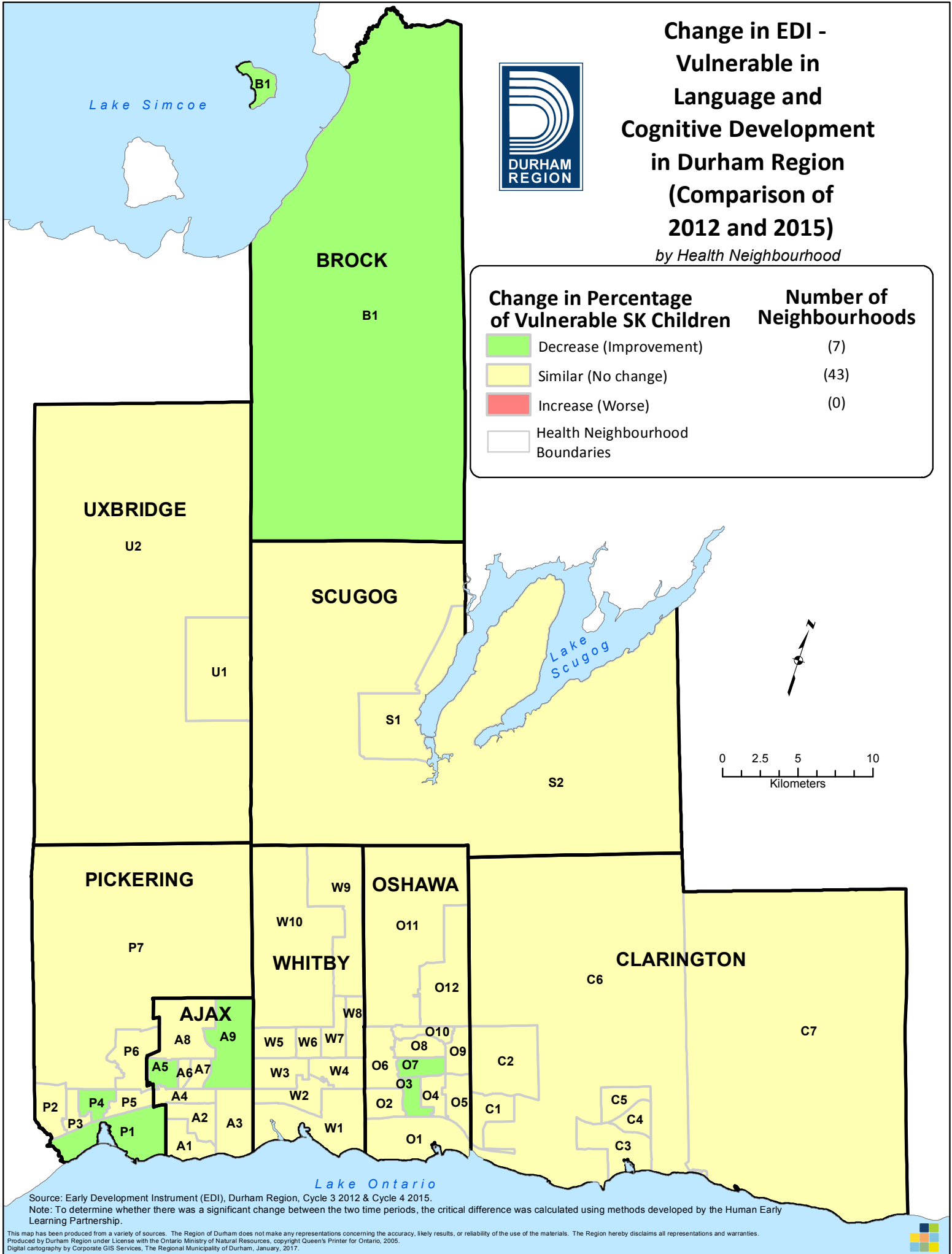


Change in EDI - Vulnerable in Language and Cognitive Development in Durham Region (Comparison of 2012 and 2015)

by Health Neighbourhood



Change in Percentage of Vulnerable SK Children	Number of Neighbourhoods
■ Decrease (Improvement)	(7)
■ Similar (No change)	(43)
■ Increase (Worse)	(0)
□ Health Neighbourhood Boundaries	



Source: Early Development Instrument (EDI), Durham Region, Cycle 3 2012 & Cycle 4 2015.
 Note: To determine whether there was a significant change between the two time periods, the critical difference was calculated using methods developed by the Human Early Learning Partnership.

EDI - Senior kindergarten (SK) children vulnerable in language and cognitive development

Table 1: List of Health Neighbourhoods ranked from highest decrease to highest increase

Health Neighbourhoods	2012 Percentage	2015 Percentage	Difference (Lower is Better)	Comparison Over Time
Downtown Oshawa (O3)	19.5%	9.0%	-10%	DECREASE
Riverside-Hermitage (A5)	8.4%	2.0%	-6%	DECREASE
Frenchman's Bay (P1)	9.5%	3.8%	-6%	DECREASE
Hillsdale (O7)	9.7%	4.2%	-6%	DECREASE
Brock (B1)	11.2%	5.9%	-5%	DECREASE
Dunbarton (P4)	8.3%	3.6%	-5%	DECREASE
Ajax Northeast (A9)	6.3%	3.3%	-3%	DECREASE
Stevenson North (O6)	8.4%	4.0%	-4%	no change
Rural Scugog (S2)	7.7%	3.3%	-4%	no change
Central Ajax (A4)	9.0%	5.0%	-4%	no change
Rural Uxbridge (U2)	7.4%	3.6%	-4%	no change
Carruthers (A3)	8.5%	5.2%	-3%	no change
Westney Heights (A6)	8.1%	4.8%	-3%	no change
Brooklin West (W10)	3.5%	0.7%	-3%	no change
Pickering North (P7)	8.4%	5.6%	-3%	no change
Whitby Brock North (W6)	7.8%	5.3%	-3%	no change
Beatrice South (O8)	7.0%	4.5%	-2%	no change
Bowmanville North (C5)	5.6%	3.2%	-2%	no change
Brock Ridge Pickering (P6)	9.8%	7.4%	-2%	no change
Darlington (C6)	7.0%	4.8%	-2%	no change
Amberlee (P3)	8.9%	6.7%	-2%	no change
Lakeview (O1)	12.5%	10.5%	-2%	no change
West Rouge (P2)	3.9%	2.0%	-2%	no change
Dryden-Anderson (W7)	3.6%	1.7%	-2%	no change
Dryden East (W8)	7.6%	6.1%	-2%	no change
Bowmanville Central (C4)	5.2%	3.9%	-1%	no change
Manning (W4)	1.9%	0.8%	-1%	no change
Grandview North (O9)	5.7%	4.5%	-1%	no change
Cochrane South (W3)	4.1%	3.2%	-1%	no change
Oshawa Northeast (O12)	6.4%	5.5%	-1%	no change
Pickering City Centre (P5)	6.4%	5.6%	-1%	no change
Downtown Ajax (A2)	6.6%	5.8%	-1%	no change
Brooklin East (W9)	2.6%	2.0%	-1%	no change
Grandview South (O5)	3.6%	3.1%	-1%	no change
Courtice South (C1)	7.8%	7.6%	0%	no change
Williamsburg (W5)	4.7%	4.6%	0%	no change
Ajax Northwest (A8)	4.8%	4.8%	0%	no change
Gibb West (O2)	9.5%	9.6%	0%	no change
Clarke (C7)	3.4%	3.6%	0%	no change
Ajax Waterfront (A1)	2.2%	2.5%	0%	no change
Port Perry (S1)	2.7%	3.1%	0%	no change
Downtown Whitby (W2)	4.7%	5.5%	1%	no change
Whitby South (W1)	4.8%	5.9%	1%	no change
Applecroft (A7)	4.2%	5.3%	1%	no change
Courtice North (C2)	8.0%	9.1%	1%	no change
Central Park (O4)	6.8%	8.2%	1%	no change
Bowmanville South (C3)	6.0%	9.1%	3%	no change
Urban Uxbridge (U1)	2.1%	5.3%	3%	no change
Oshawa Northwest (O11)	2.9%	6.4%	4%	no change
Beatrice North (O10)	7.9%	11.5%	4%	no change

EDI - Senior kindergarten (SK) children vulnerable in language and cognitive development

Table 2: Comparison of 2012 and 2015

(Lower rates and decreases are better for health)

Municipality or Neighbourhood	2012 Percentage	Compared with Durham Region	2012 Number of Vulnerable Children	2015 Percentage	Compared with Durham Region	2015 Number of Vulnerable Children	Change over time	Comparison over time
Pickering	7.7%	HIGHER	59	5.0%	similar	40	-3%	DECREASE
Frenchman's Bay (P1)	9.5%	HIGHER	12	3.8%	similar	5	-6%	DECREASE
West Rouge (P2)	3.9%	LOWER	5	2.0%	LOWER	2	-2%	no change
Amberlee (P3)	8.9%	similar	7	6.7%	similar	6	-2%	no change
Dunbarton (P4)	8.3%	similar	10	3.6%	similar	5	-5%	DECREASE
Pickering City Centre (P5)	6.4%	similar	8	5.6%	similar	7	-1%	no change
Brock Ridge Pickering (P6)	9.8%	HIGHER	10	7.4%	HIGHER	11	-2%	no change
Pickering North (P7)	8.4%	similar	7	5.6%	similar	4	-3%	no change
Ajax	6.3%	similar	82	4.3%	similar	59	-2%	DECREASE
Ajax Waterfront (A1)	2.2%	LOWER	2	2.5%	similar	2	0%	no change
Downtown Ajax (A2)	6.6%	similar	7	5.8%	similar	6	-1%	no change
Carruthers (A3)	8.5%	HIGHER	16	5.2%	similar	11	-3%	no change
Central Ajax (A4)	9.0%	similar	8	5.0%	similar	5	-4%	no change
Riverside-Hermitage (A5)	8.4%	similar	8	2.0%	LOWER	2	-6%	DECREASE
Westney Heights (A6)	8.1%	similar	7	4.8%	similar	4	-3%	no change
Applecroft (A7)	4.2%	similar	6	5.3%	similar	7	1%	no change
Ajax Northwest (A8)	4.8%	similar	11	4.8%	similar	10	0%	no change
Ajax Northeast (A9)	6.3%	similar	17	3.3%	LOWER	12	-3%	DECREASE
Whitby	4.4%	LOWER	65	3.3%	LOWER	53	-1%	no change
Whitby South (W1)	4.8%	similar	8	5.9%	similar	11	1%	no change
Downtown Whitby (W2)	4.7%	similar	6	5.5%	similar	7	1%	no change
Cochrane South (W3)	4.1%	similar	3	3.2%	similar	3	-1%	no change
Manning (W4)	1.9%	LOWER	2	0.8%	LOWER	1	-1%	no change
Williamsburg (W5)	4.7%	similar	7	4.6%	similar	7	0%	no change
Whitby Brock North (W6)	7.8%	similar	10	5.3%	similar	7	-3%	no change
Dryden-Anderson (W7)	3.6%	LOWER	4	1.7%	LOWER	2	-2%	no change
Dryden East (W8)	7.6%	similar	10	6.1%	similar	8	-2%	no change
Brooklin East (W9)	2.6%	LOWER	7	2.0%	LOWER	5	-1%	no change
Brooklin West (W10)	3.5%	LOWER	8	0.7%	LOWER	2	-3%	no change
Oshawa	8.2%	HIGHER	115	6.7%	HIGHER	107	-2%	DECREASE
Lakeview (O1)	12.5%	HIGHER	24	10.5%	HIGHER	20	-2%	no change
Gibb West (O2)	9.5%	HIGHER	9	9.6%	HIGHER	10	0%	no change
Downtown Oshawa (O3)	19.5%	HIGHER	15	9.0%	HIGHER	8	-10%	DECREASE
Central Park (O4)	6.8%	similar	5	8.2%	HIGHER	7	1%	no change
Grandview South (O5)	3.6%	similar	3	3.1%	similar	3	-1%	no change
Stevenson North (O6)	8.4%	similar	9	4.0%	similar	5	-4%	no change
Hillsdale (O7)	9.7%	HIGHER	9	4.2%	similar	4	-6%	DECREASE
Beatrice South (O8)	7.0%	similar	6	4.5%	similar	4	-2%	no change
Grandview North (O9)	5.7%	similar	7	4.5%	similar	7	-1%	no change
Beatrice North (O10)	7.9%	similar	9	11.5%	HIGHER	13	4%	no change
Oshawa Northwest (O11)	2.9%	LOWER	3	6.4%	similar	9	4%	no change
Oshawa Northeast (O12)	6.4%	similar	16	5.5%	similar	17	-1%	no change
Clarington	6.0%	similar	56	5.8%	similar	60	0%	no change
Courtice South (C1)	7.8%	similar	15	7.6%	HIGHER	14	0%	no change
Courtice North (C2)	8.0%	similar	7	9.1%	HIGHER	9	1%	no change
Bowmanville South (C3)	6.0%	similar	10	9.1%	HIGHER	16	3%	no change
Bowmanville Central (C4)	5.2%	similar	5	3.9%	similar	4	-1%	no change
Bowmanville North (C5)	5.6%	similar	10	3.2%	similar	7	-2%	no change
Darlington (C6)	7.0%	similar	4	4.8%	similar	4	-2%	no change
Clarke (C7)	3.4%	LOWER	5	3.6%	similar	6	0%	no change
Scugog	5.6%	similar	10	3.2%	similar	5	-2%	no change
Port Perry (S1)	2.7%	LOWER	2	3.1%	similar	2	0%	no change
Rural Scugog (S2)	7.7%	similar	8	3.3%	similar	3	-4%	no change
Uxbridge	3.6%	LOWER	7	4.8%	similar	8	1%	no change
Urban Uxbridge (U1)	2.1%	LOWER	3	5.3%	similar	6	3%	no change
Rural Uxbridge (U2)	7.4%	similar	4	3.6%	similar	2	-4%	no change
Brock - Brock (B1)	11.2%	HIGHER	11	5.9%	similar	7	-5%	DECREASE
Durham Region	6.4%	Lower than ON	405	4.9%	Lower than ON	339	-1%	DECREASE
Range	1.9% to 19.5%	--	2 - 24	0.7% to 11.5%	--	1 - 20	-10% to 4%	--
Ontario	7.6%	--	9,108	6.7%	--	8,427	-1%	DECREASE

Note: Durham Region's rate is compared to Ontario (ON).



EDI - Vulnerable in Language and Cognitive Development (2015)

Durham Region

by Health Neighbourhood

Percentage of Vulnerable SK Children

Number of Neighbourhoods

0.7% - 3.9%

(18)

4.0% - 5.2%

(10)

5.3% - 5.8%

(8)

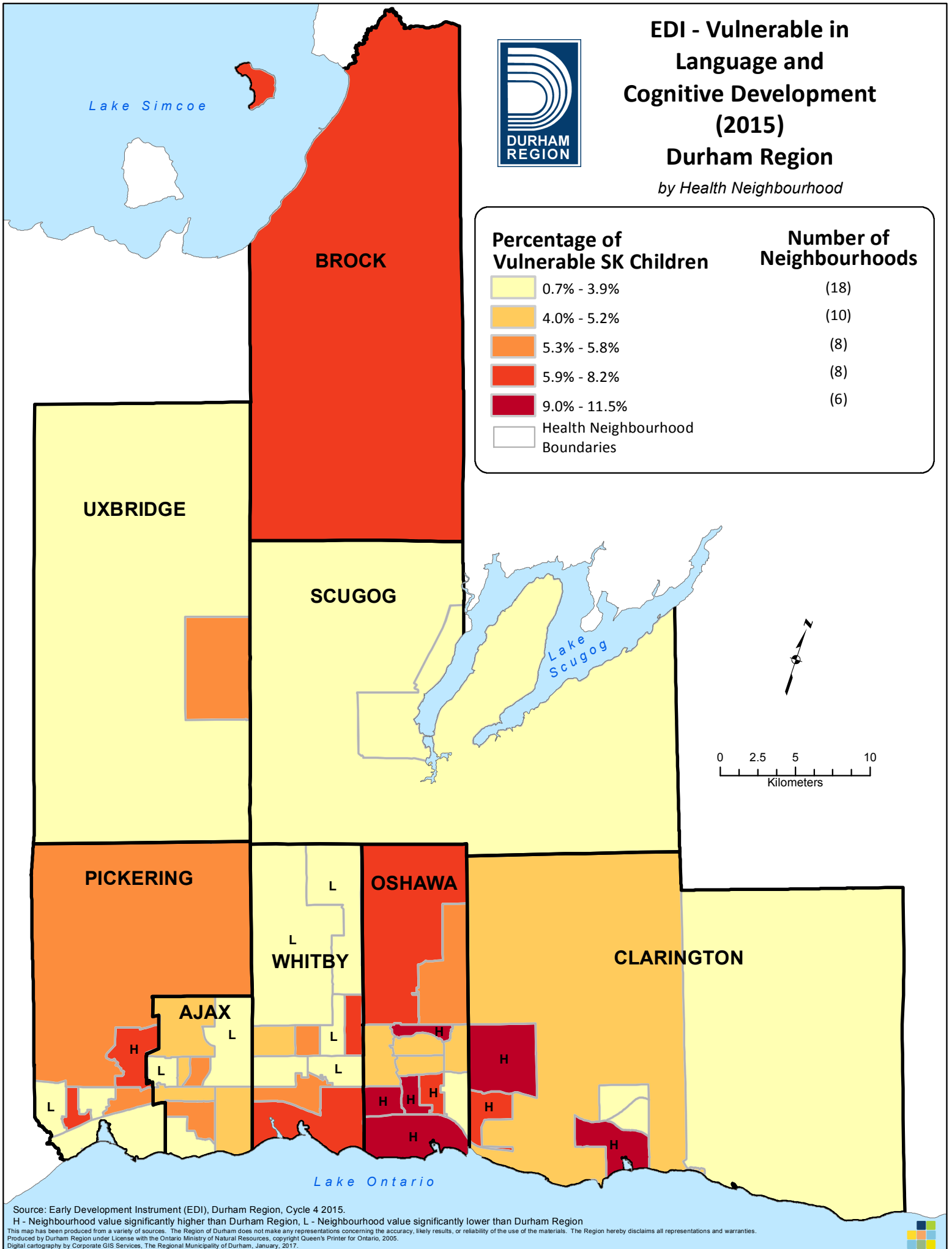
5.9% - 8.2%

(8)

9.0% - 11.5%

(6)

Health Neighbourhood Boundaries



Source: Early Development Instrument (EDI), Durham Region, Cycle 4 2015.

H - Neighbourhood value significantly higher than Durham Region, L - Neighbourhood value significantly lower than Durham Region

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EDI - Senior kindergarten (SK) children vulnerable in language and cognitive development (2015)

Table 3: List of Health Neighbourhoods ranked from lowest to highest

Order	Neighbourhood	Percentage of Vulnerable Children	Number of Vulnerable Children	Number of SK Children Assessed	Compared with Durham Region (Lower is Better)	Quintile
1	Brooklin West (W10)	0.7%	2	276	LOWER	1
2	Manning (W4)	0.8%	1	133	LOWER	1
3	Dryden-Anderson (W7)	1.7%	2	118	LOWER	1
4	Riverside-Hermitage (A5)	2.0%	2	102	LOWER	1
5	West Rouge (P2)	2.0%	2	100	LOWER	1
6	Brooklin East (W9)	2.0%	5	248	LOWER	1
7	Ajax Waterfront (A1)	2.5%	2	79	similar	1
8	Grandview South (O5)	3.1%	3	97	similar	1
9	Port Perry (S1)	3.1%	2	64	similar	1
10	Cochrane South (W3)	3.2%	3	95	similar	1
11	Bowmanville North (C5)	3.2%	7	220	similar	1
12	Ajax Northeast (A9)	3.3%	12	369	LOWER	1
13	Rural Scugog (S2)	3.3%	3	92	similar	1
14	Clarke (C7)	3.6%	6	166	similar	1
15	Dunbarton (P4)	3.6%	5	138	similar	1
16	Rural Uxbridge (U2)	3.6%	2	55	similar	1
17	Frenchman's Bay (P1)	3.8%	5	130	similar	1
18	Bowmanville Central (C4)	3.9%	4	103	similar	1
19	Stevenson North (O6)	4.0%	5	126	similar	2
20	Hillsdale (O7)	4.2%	4	96	similar	2
21	Beatrice South (O8)	4.5%	4	89	similar	2
22	Grandview North (O9)	4.5%	7	154	similar	2
23	Williamsburg (W5)	4.6%	7	151	similar	2
24	Darlington (C6)	4.8%	4	84	similar	2
25	Westney Heights (A6)	4.8%	4	83	similar	2
26	Ajax Northwest (A8)	4.8%	10	207	similar	2
27	Central Ajax (A4)	5.0%	5	101	similar	2
28	Carruthers (A3)	5.2%	11	212	similar	2
29	Applecroft (A7)	5.3%	7	132	similar	3
30	Whitby Brock North (W6)	5.3%	7	132	similar	3
31	Urban Uxbridge (U1)	5.3%	6	113	similar	3
32	Oshawa Northeast (O12)	5.5%	17	311	similar	3
33	Downtown Whitby (W2)	5.5%	7	128	similar	3
34	Pickering City Centre (P5)	5.6%	7	125	similar	3
35	Pickering North (P7)	5.6%	4	71	similar	3
36	Downtown Ajax (A2)	5.8%	6	103	similar	3
37	Whitby South (W1)	5.9%	11	188	similar	4
38	Brock (B1)	5.9%	7	119	similar	4
39	Dryden East (W8)	6.1%	8	131	similar	4
40	Oshawa Northwest (O11)	6.4%	9	141	similar	4
41	Amberlee (P3)	6.7%	6	89	similar	4
42	Brock Ridge Pickering (P6)	7.4%	11	149	HIGHER	4
43	Courtice South (C1)	7.6%	14	184	HIGHER	4
44	Central Park (O4)	8.2%	7	85	HIGHER	4
45	Downtown Oshawa (O3)	9.0%	8	89	HIGHER	5
46	Courtice North (C2)	9.1%	9	99	HIGHER	5
47	Bowmanville South (C3)	9.1%	16	176	HIGHER	5
48	Gibb West (O2)	9.6%	10	104	HIGHER	5
49	Lakeview (O1)	10.5%	20	191	HIGHER	5
50	Beatrice North (O10)	11.5%	13	113	HIGHER	5



EDI - Vulnerable in Language and Cognitive Development (2012 Revised) Durham Region

by Health Neighbourhood

Percentage of Vulnerable SK Children

Number of Neighbourhoods

1.9% - 4.8%

(17)

5.2% - 6.6%

(8)

6.8% - 8.0%

(10)

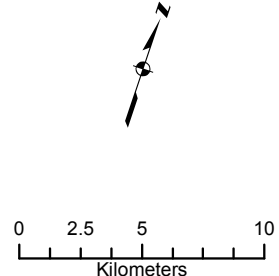
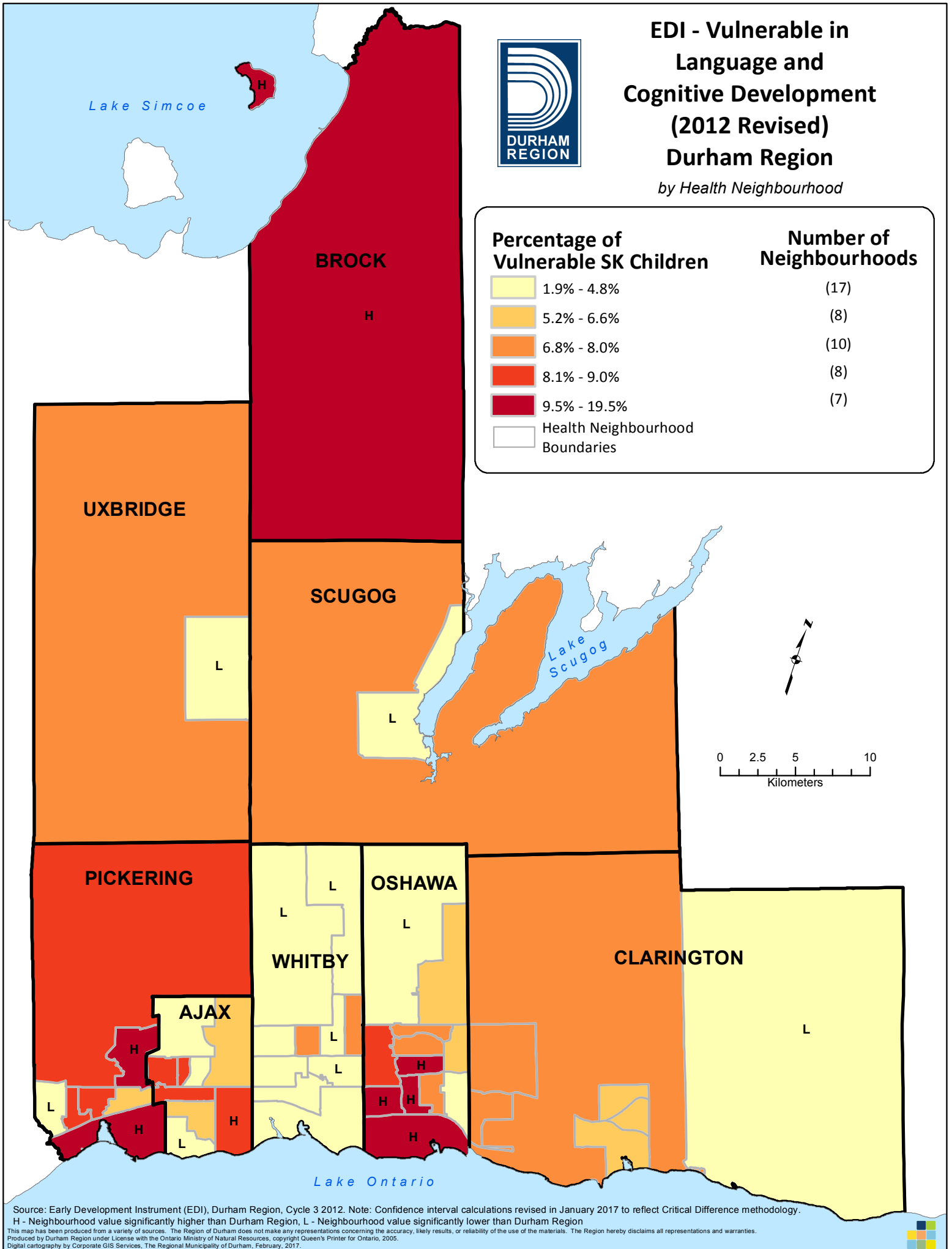
8.1% - 9.0%

(8)

9.5% - 19.5%

(7)

Health Neighbourhood Boundaries



Source: Early Development Instrument (EDI), Durham Region, Cycle 3 2012. Note: Confidence interval calculations revised in January 2017 to reflect Critical Difference methodology.

H - Neighbourhood value significantly higher than Durham Region, L - Neighbourhood value significantly lower than Durham Region

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EDI - Senior kindergarten (SK) children vulnerable in language and cognitive development (2012 revised)

Table 4: List of Health Neighbourhoods ranked from lowest to highest

Order	Neighbourhood	Percentage of Vulnerable Children	Number of Vulnerable Children	Number of SK Children Assessed	Compared with Durham Region (Lower is Better)	Quintile
1	Manning (W4)	1.9%	2	105	LOWER	1
2	Urban Uxbridge (U1)	2.1%	3	140	LOWER	1
3	Ajax Waterfront (A1)	2.2%	2	90	LOWER	1
4	Brooklin East (W9)	2.6%	7	269	LOWER	1
5	Port Perry (S1)	2.7%	2	74	LOWER	1
6	Oshawa Northwest (O11)	2.9%	3	105	LOWER	1
7	Clarke (C7)	3.4%	5	147	LOWER	1
8	Brooklin West (W10)	3.5%	8	226	LOWER	1
9	Dryden-Anderson (W7)	3.6%	4	111	LOWER	1
10	Grandview South (O5)	3.6%	3	83	similar	1
11	West Rouge (P2)	3.9%	5	127	LOWER	1
12	Cochrane South (W3)	4.1%	3	73	similar	1
13	Applecroft (A7)	4.2%	6	143	similar	1
14	Williamsburg (W5)	4.7%	7	150	similar	1
15	Downtown Whitby (W2)	4.7%	6	128	similar	1
16	Ajax Northwest (A8)	4.8%	11	229	similar	1
17	Whitby South (W1)	4.8%	8	166	similar	1
18	Bowmanville Central (C4)	5.2%	5	96	similar	2
19	Bowmanville North (C5)	5.6%	10	178	similar	2
20	Grandview North (O9)	5.7%	7	123	similar	2
21	Bowmanville South (C3)	6.0%	10	167	similar	2
22	Ajax Northeast (A9)	6.3%	17	269	similar	2
23	Pickering City Centre (P5)	6.4%	8	125	similar	2
24	Oshawa Northeast (O12)	6.4%	16	250	similar	2
25	Downtown Ajax (A2)	6.6%	7	106	similar	2
26	Central Park (O4)	6.8%	5	74	similar	3
27	Beatrice South (O8)	7.0%	6	86	similar	3
28	Darlington (C6)	7.0%	4	57	similar	3
29	Rural Uxbridge (U2)	7.4%	4	54	similar	3
30	Dryden East (W8)	7.6%	10	131	similar	3
31	Rural Scugog (S2)	7.7%	8	104	similar	3
32	Courtice South (C1)	7.8%	15	193	similar	3
33	Whitby Brock North (W6)	7.8%	10	128	similar	3
34	Beatrice North (O10)	7.9%	9	114	similar	3
35	Courtice North (C2)	8.0%	7	88	similar	3
36	Westney Heights (A6)	8.1%	7	86	similar	4
37	Dunbarton (P4)	8.3%	10	120	similar	4
38	Stevenson North (O6)	8.4%	9	107	similar	4
39	Riverside-Hermitage (A5)	8.4%	8	95	similar	4
40	Pickering North (P7)	8.4%	7	83	similar	4
41	Carruthers (A3)	8.5%	16	188	HIGHER	4
42	Amberlee (P3)	8.9%	7	79	similar	4
43	Central Ajax (A4)	9.0%	8	89	similar	4
44	Gibb West (O2)	9.5%	9	95	HIGHER	5
45	Frenchman's Bay (P1)	9.5%	12	126	HIGHER	5
46	Hillsdale (O7)	9.7%	9	93	HIGHER	5
47	Brock Ridge Pickering (P6)	9.8%	10	102	HIGHER	5
48	Brock (B1)	11.2%	11	98	HIGHER	5
49	Lakeview (O1)	12.5%	24	192	HIGHER	5
50	Downtown Oshawa (O3)	19.5%	15	77	HIGHER	5

EDI - Senior kindergarten (SK) children vulnerable in language and cognitive development (Comparison of 2012 and 2015)

What You Need to Know

- Decreases and lower percentages of vulnerable children are better for health.
- Teachers complete the Early Development Instrument (EDI) to measure whether SK children are developmentally ready to enter Grade 1 based on five core areas of early child development (domains). Positive experiences in early childhood set the foundation for children's lifelong learning, behaviour, health and well-being. Factors that often affect early childhood experiences, such as household income and parental education, are also likely to affect EDI outcomes.
- The percentage ranged by Health Neighbourhood from 1.9 to 19.5 per cent in 2012, and from 0.7 to 11.5 per cent in 2015. The difference over time ranged from -10.5 to 3.6 per cent.
- Neighbourhoods with higher percentages of vulnerable children in 2015 were in Oshawa and Clarington, with one Neighbourhood in Pickering. Five of the seven Priority Neighbourhoods were significantly higher than Durham Region; however, one of these (Downtown Oshawa) also improved significantly over time. Whitby was significantly lower. Durham Region was lower than Ontario in both 2012 and 2015. The percentage of vulnerable children decreased statistically in Durham Region and Ontario but the increase was less than 2 per cent and not considered meaningful.

Indicator Notes

- This EDI indicator measures the percentage of SK children who scored low in the domain of language and cognitive development. This domain includes reading awareness, age appropriate reading, writing and numeracy skills, and the ability to play board games, understand similarities and differences, and recite back specific information from memory.
- Source: Early Development Instrument (EDI), Durham Region, Cycle 3 2012 & Cycle 4 2015.
- The Offord Centre for Child Studies administered the EDI in Ontario from 2009/10 to 2011/12 (Cycle 3) and in 2014/15 (Cycle 4). Cycle 3 in Durham Region occurred in 2012. Teachers completed the EDI for all SK students, except children with special needs and those who had been in their class for less than a month. "Vulnerable" describes children who scored below the 10th percentile cut-off of the Ontario Cycle 1 baseline on any of the domains. Higher vulnerability means that a greater percentage of children are not ready for school.
- We sorted Neighbourhoods by the percentage of vulnerable children and divided Neighbourhoods into quintiles (five equal groupings) based on the number of vulnerable SK children. For the time comparison, we mapped Neighbourhoods according to whether there was a significant increase, decrease or no change between the two time points. We determined significant differences using the critical difference test. By revising the 2012 map with this method, more Neighbourhoods became statistically different from Durham Region.
- For more information about EDI results in Durham Region, see Child Care and Children's Programs at durham.ca. For information about the EDI provincially, see the [Offord Centre for Child Studies](#) and for critical difference calculations, see [Human Early Learning Partnership](#).

Release Date: October 2017.

For more information, refer to The Guide to Health Neighbourhoods.

If you require this information in an accessible format, contact 1-800-841-2729.