

AGENDA: 11:00 – 1:00

1. Call to Order
2. Approval of the Agenda
3. Long Term Facilities Master Plan Update
4. Enrolment Summary – March 31, 2017
5. 2017-18 Budget Development
6. Resolution Into Committee of the Whole (Private Session) as per the Education Act, Section 207.2 (b) the disclosure of intimate, personal or financial information in respect of a member of the board or committee
7. Adjournment



**EXECUTIVE REPORT TO FINANCE
& FACILITIES COMMITTEE**

DATE: May 11, 2017

TO: Finance & Facilities Committee

FROM: Manny Figueiredo, Director of Education

PREPARED BY: David Anderson, Senior Facilities Officer
Ellen Warling, Manager of Planning & Accommodation

RE: Long Term Facilities Master Plan – Annual Update May 2017

Action X **Monitoring**

Recommendations:

That the Board receive the Long-Term Facilities Master Plan Annual Update and approve the revised Accommodation Strategy Schedule (Section 9).

Rationale/Benefits:

The Long-Term Facilities Master Plan (LTFMP) is a fluid document that identifies the current state of Hamilton-Wentworth District School Board’s (HWDSB) facilities and outlines a facility management strategy. HWDSB will issue annual updates each winter/spring and will completely revise the LTFMP two years after the Canadian Census which acts as background information and base data for the LTFMP. The attached LTFMP is scheduled for a complete revision in Spring 2018. Within HWDSB’s mandate is an obligation to provide *equitable, affordable, and sustainable learning facilities* for students. The purpose of the LTFMP is to identify strategies to meet this mandate and assist in long-term planning.

Background:

The LTFMP Guiding Principles were approved by the Board of Trustees on February 25, 2013 (Resolution #13-11) and provide the framework for the development and implementation of the accommodation strategies contained within the plan. The following guiding principles are consistent with the commitment to provide quality teaching and learning environments that are driven by the needs of students and programs:

1. HWDSB is committed to providing and maintaining quality learning and teaching environments that support student achievement (*HWDSB Strategic Directions, Annual Operating Plan 2011-12*)
2. Optimal utilization rates of school facilities is in the range of 90- 110%
3. Facilities reflect the program strategy that all students need personalized learning, pathways, schools with specialization and cluster and community support (*Learning for All: HWDSB Program Strategy*)
4. The scheduled length of time on a vehicle provided through Hamilton-Wentworth Student Transportation Services shall not exceed 60 minutes one way. (*Transportation Policy, 2014*)
5. School facilities meet the needs of each of our students in the 21st century (*Education in HWDSB, 2011*)

6. Accessibility will be considered in facility planning and accommodation (*Accessibility (Barrier-Free)“Pathways” Policy, 1999*)
7. School facilities provide neighbourhood and community access that supports the well-being of students and their families (*A Guide to Educational Partnerships, 2009*)
8. School facilities have flexible learning environments including adaptive and flexible use of spaces; student voice is reflected in where, when and how learning occurs (*Education in HWDSB, 2012*) *buffa*
9. Specific principles related to elementary and secondary panels:

Elementary

- a. *School Capacity* - optimal school capacity would be 500 to 600 students, which creates two to three classes for each grade
- b. *School Grade/Organization* –Kindergarten to-Grade 8 facilities
- c. *School Site Size* - optimal elementary school site size would be approximately 6 acres
- d. *French Immersion* - In dual track schools a balance between French Immersion and English track students is ideal for balanced program delivery

Secondary

- a. *School Capacity* - optimal school capacity would be 1000 to 1250 students
- b. *School Site Size* - ideal secondary school site size would be approximately 15 acres, including a field, parking lot and building

Not meeting the aspects of the program specific principles above (#9), does not preclude that a school has been pre-determined for closure or other accommodation strategies. The principles are intended to be guides and may not be able to be met in all circumstances.

The LTFMP Guiding Principles will align with HWDSB’s reimagined Vision and Focus to better serve students, parents and the greater community. Priorities highlighted from HWDSB’s new Strategic Directions include:

School Renewal – We will optimize opportunities to invest in improved facilities

Partnerships – We will strengthen our collaboration with new and existing community partners to enhance opportunities for students

Accommodation Strategy Schedule

The accommodation strategy schedule recaps completed accommodation strategies from 2011/2012 through 2016/2017 and outlines the next 4 years of proposed accommodation strategies. The schedule is broken down by planning areas. Planning areas allow for comprehensive and in-depth analysis of each area of the city. Analysis of accommodation/utilization issues and facility needs are done on a smaller scale to determine the right solution for each planning area. The schedule outlines the following:

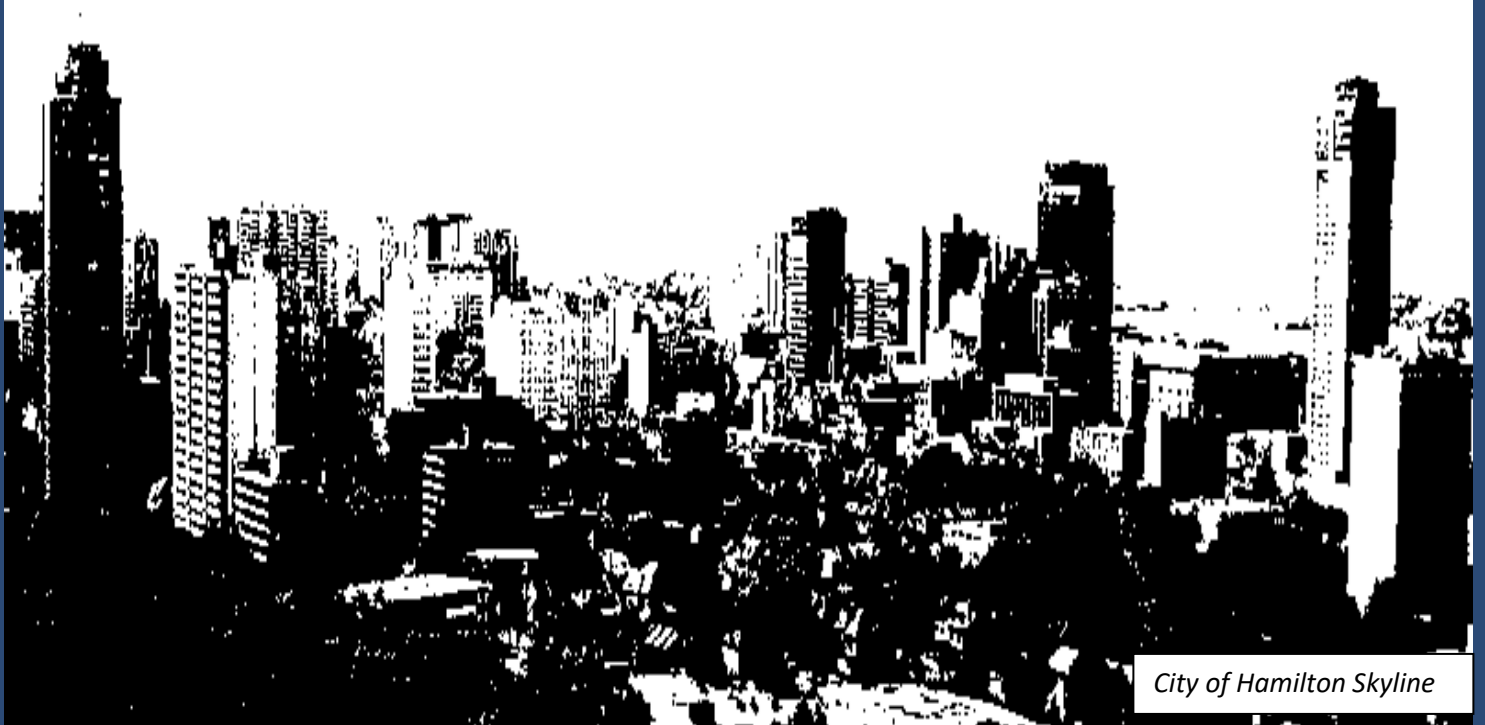
- Accommodation Reviews
- Boundary Reviews
- Grade Reorganizations
- Anticipated Land Purchases
- Opening/closing/sale of schools
- Holding Schools

The schedule indicates a moratorium on accommodation reviews in the 2018-2019 school year due to the municipal election. By June 2017, HWDSB will have completed 3 secondary and 10 elementary accommodation reviews. The schedule recommends 5 elementary accommodation reviews from 2017/2018 to 2020/2021 school year.

HWDSB

HWDSB

LONG TERM FACILITIES MASTER PLAN: 2015-
2018 – MAY 2017 UPDATE



City of Hamilton Skyline

Introduction

Section 1: HWDSB Facilities at a Glance

Section 2: HWDSB Properties

Section 3: Demographics (Will be updated in 2018 with release of Census data)

Section 4: Residential Development

Section 5: Enrolment Trends and Projections

Section 6: LTFMP Guiding Principles

Section 7: Planning Areas

Section 8: Boundary Reviews

Section 9: Accommodation Strategy Schedule

Section 10: Portable Strategy

Section 11: Program Initiatives

Section 12: Schools as Community Hubs

Section 13: Maintenance and Energy Planning

Section 14: Conservation and Demand Management Plan - 2017 Update

Thematic Maps

Introduction

Within Hamilton-Wentworth District School Board's (HWDSB) mandate is an obligation to provide *equitable, affordable, and sustainable learning facilities* for students. To address the numerous facets related to this mandate and to provide clear direction, HWDSB, led by the Facilities Management Department, has produced a 'plan' to guide us toward achieving sustainable facilities. The Long-Term Facilities Master Plan (LTFMP) represents that 'plan'.

The purpose of the Long-Term Facilities Master Plan:

1. Provide background information with respect to HWDSB's long term capital plan and accommodation strategy schedule
2. Provide a framework for decision making regarding HWDSB facilities
3. Provide a long-term accommodation strategy schedule

The LTFMP captures the current and future state of HWDSB. Understanding where we are is a necessary step towards determining where we need to be. This document illustrates past, present and future enrolments as well as the factors that influence student enrolments (e.g., demographics, birth rates, residential development, program offerings etc.). The LTFMP will provide a description (age, facility condition, size, etc.) of HWDSB's facilities in order to understand both our immediate and long term requirements. The plan will also identify program initiatives and accommodation strategies (boundary reviews, grade reorganizations, portable allocations, accommodation reviews).

The LTFMP Guiding Principles will provide the framework for decision making, which is a key component in the development and implementation of the Long-Term Facilities Master Plan. Principles that will be identified include:

- Facilities supporting quality teaching and learning
- Optimal school utilization rates
- Alignment with our Program Strategy
- School size, organization, and site size
- Transportation and accessibility
- Flexible learning environments for 21st century learning, and
- Neighbourhood and community access

The accommodation strategy schedule is a 7-year plan which began in the 2012/2013 school year. The schedule indicates a variety of accommodation strategies. The schedule is broken down by planning areas. Planning areas allow for comprehensive and in-depth analysis of each area of the city. Analysis of accommodation/utilization issues and facility needs are done on a smaller scale to determine the right solution for each planning area. The schedule outlines the following:

- Accommodation reviews
- Boundary Reviews
- Grade Reorganizations
- Land purchases

Long-Term Facilities Master Plan Future Updates

The Long-Term Facilities Master Plan is a fluid document that will be updated on a yearly basis and will illustrate HWDSB's current facility situation and facilities management strategy. The LTFMP is a snapshot in time which illustrates the current state of HWDSB at the time of release. HWDSB will issue annual updates each winter and will completely revise the LTFMP two years after the Canadian Census. Statistics Canada typically issues census data within one year of the completion of the census. The Hamilton census data acts as background information and base data for HWDSB. Please see below the schedule of updates for the Long-Term Facilities Master Plan.

Update	Date
LTFMP Approval	January 2013 - Complete
Annual Update	February 2014 - Complete
<i>Full Update</i>	<i>Winter 2015 – Current Update</i>
Annual Update	Winter 2016
Annual Update	Winter 2017
<i>Full Update</i>	<i>Winter 2018</i>
Annual Update	Winter 2019
Annual Update	Winter 2020
Annual Update	Winter 2021
Annual Update	Winter 2022
<i>Full Update</i>	<i>Winter 2023</i>

Full updates consist of updating all sections of the LTFMP.

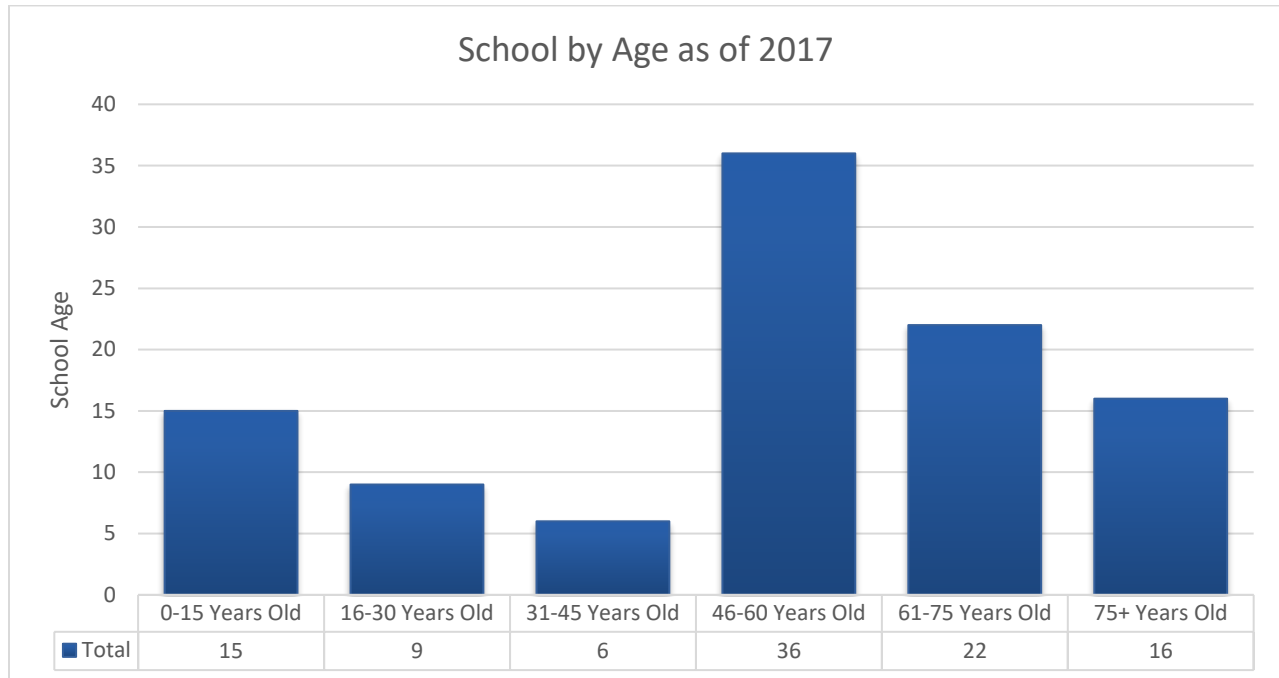
The annual update will consist of updating the following items:

- Development
- Enrolment Trends
- Boundary Review Update
- Accommodation Strategy Updates and Schedule Update
- Temporary Accommodation Update
- Property Disposition and Acquisition
- Thematic Maps

Section 1: Facilities at a Glance

Age of Facilities

There are currently 89 elementary schools and 15 secondary schools in operation at Hamilton-Wentworth District School Board. The schools range in age from less than 1 years old to 165 years old. Currently, the board has 15 schools that were built in the last 15 years, and 16 schools that were built 75 years or more years ago. Due to the history and age of some of Hamilton’s neighborhoods, original neighbourhood school facilities still stand and continue to be in use. The board has 36 schools that are between the ages of 46 and 60, meaning they were built between 1957 and 1971 (the Baby Boom Era). The chart below depicts HWDSB school age.



On the Ground Capacity

On the Ground Capacity (OTG) is the number that the Ministry of Education uses to quantify the capacity of a school for students. The OTG represents number of students the permanent structure of a school building can accommodate, by instructional space, and as per room loadings set by the Ministry of Education. Different types of rooms have a different loading and they differ between elementary and secondary panels. The total of the rooms in a school, and their assigned capacities are added together to calculate its OTG. Loading examples of classroom types for elementary and secondary panels are shown below.

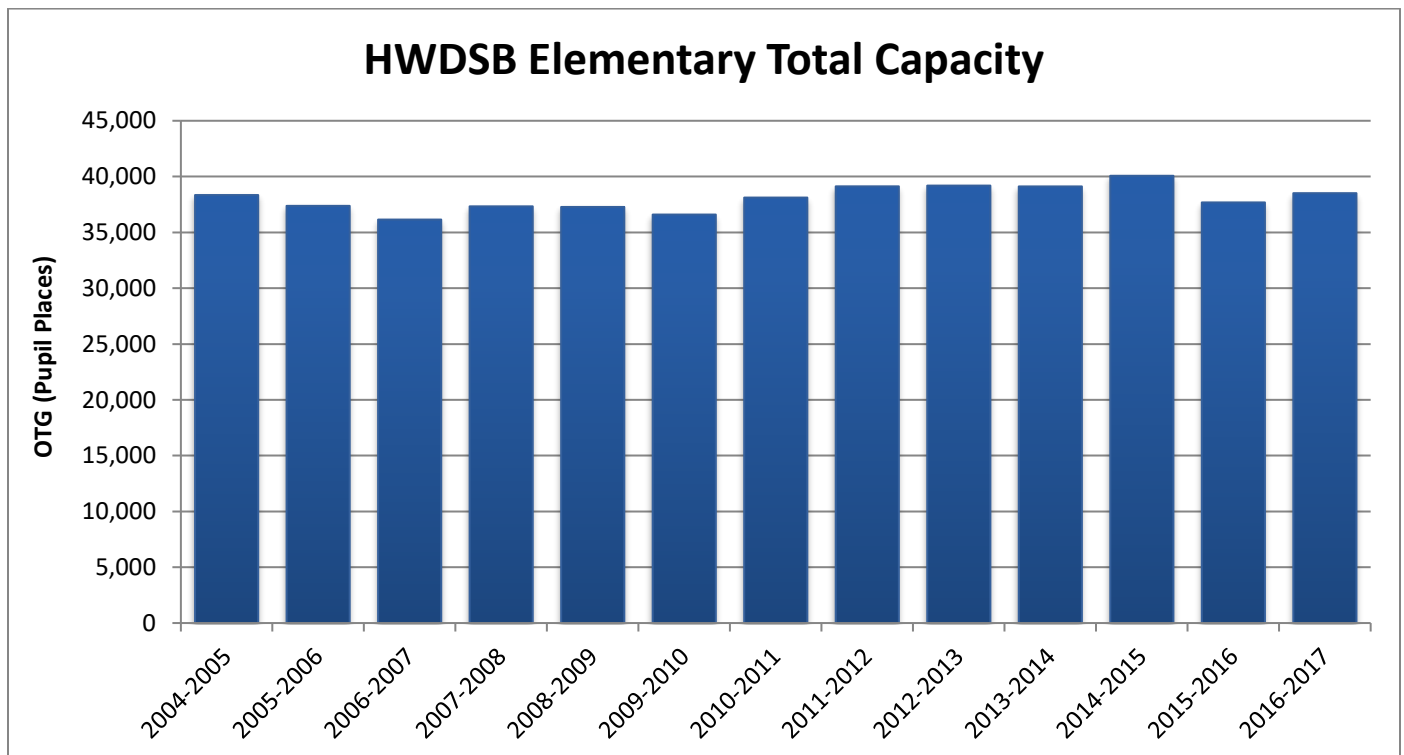
Instructional Space	Elementary Loading	Secondary Loading
Kindergarten	26	-
Classroom	23	21
Special Education	9	9
Resource Room	12	12

Section 1: Facilities at a Glance

Recent Ministry of Education initiatives have impacted the capacity of elementary schools throughout Ontario. Specifically, kindergarten room capacities have changed from a loading of 20 to 26 students per classroom as of September 2014. This change in capacity increased HWDSB's overall capacity by approximately 1,400 pupil places.

School OTGs are recorded in a Ministry database that tracks information for all schools in Ontario. The database entitled School Facilities Inventory System (SFIS) indicates a capacity for each school based on the number and type of instructional spaces it has (see above table). HWDSB has undergone the process of renewing all school architectural floor plans which helps ensure accurate data is being used for long term capital planning and that room information aligns with the Ministry SFIS.

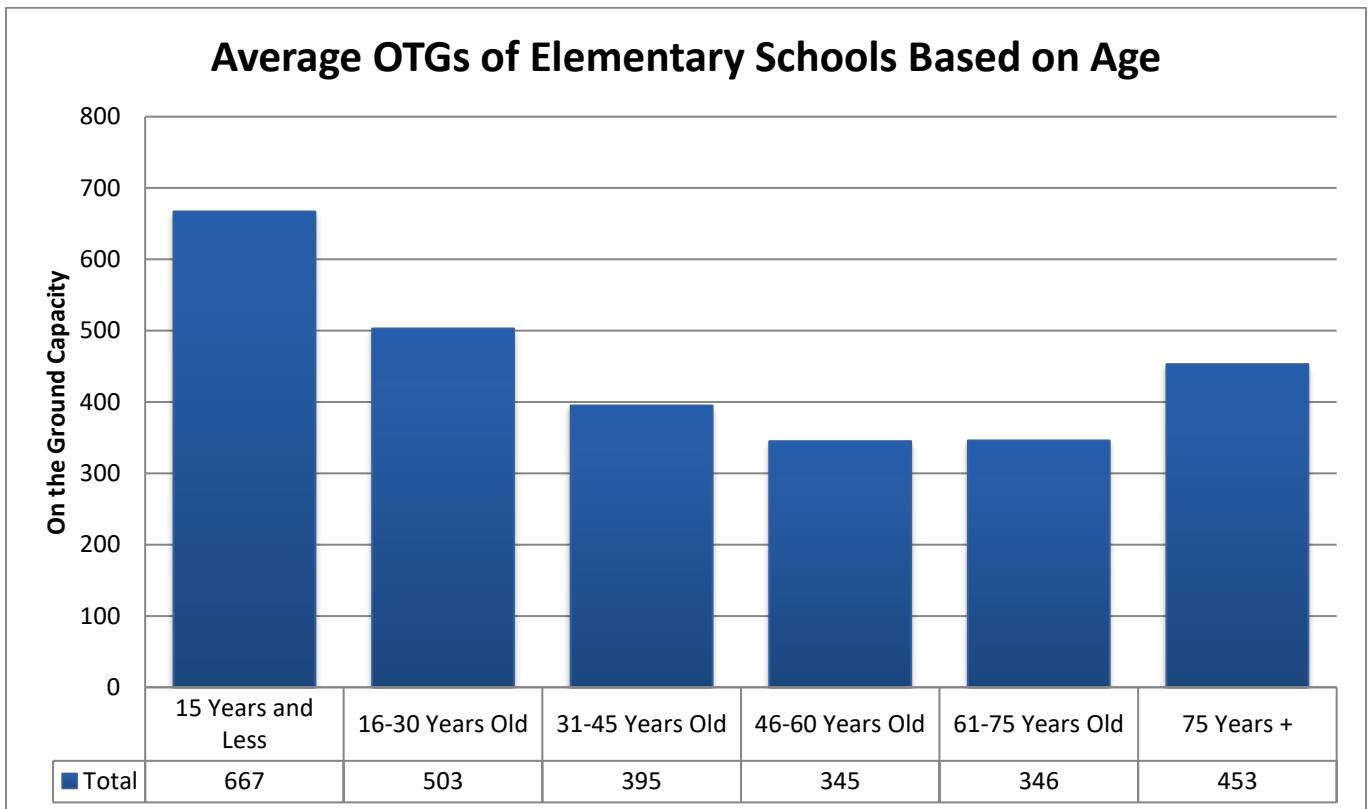
HWDSB's inventory of elementary schools has reduced from 103 in 2004 to 89 schools in 2017. As of 2017, the combined OTG of the elementary panel is just over 38,500 pupil places, while enrolment was approximately 35,128 students as of October 31, 2016. This equates to roughly 3,370 excess pupil places, down from 5,000 excess pupil places in 2014. Please see the chart below which depicts elementary capacity since 2004.



The Ministry of Education has approved the construction of four new elementary schools. Eastdale, Greensville and Beverly Community Centre site school are replacement schools approved through the accommodation reviews. Six schools will close with the construction of these facilities. The Ministry of Education approved the construction on the Summit Park site in Glanbrook/Upper Stoney Creek. The construction of Summit Park is considered a growth school. Upon completion of construction and closures of the above-mentioned schools, HWDSB's elementary capacity will increase slightly to just above 38,800.

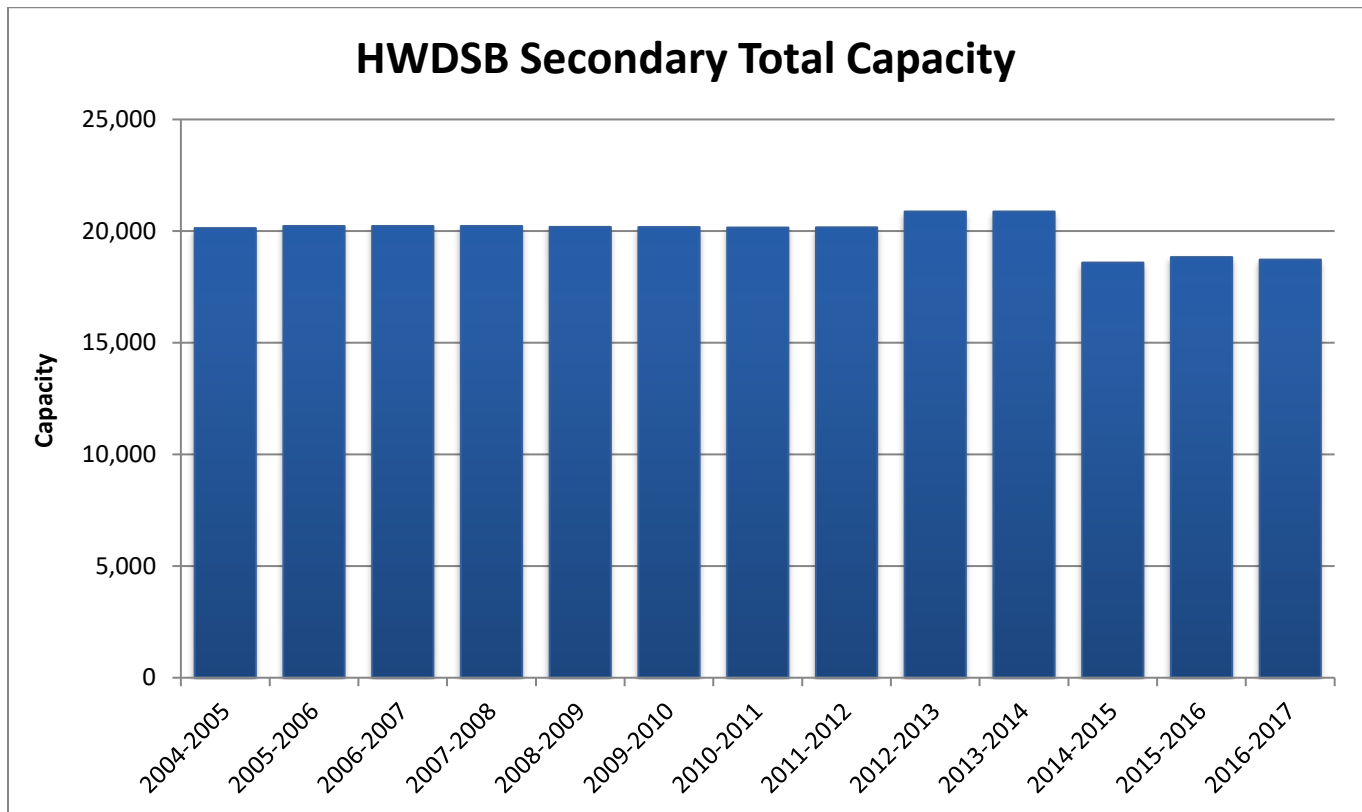
Section 1: Facilities at a Glance

In the last 15 years, Hamilton-Wentworth District School Board has built 15 new elementary schools. The average capacity of these facilities is 667 pupil places. This is considerably larger than the average size of elementary schools built prior to 2002. Schools with ages between 16 and 30 averaged almost 165 less pupil places at just over 500 pupil places. Schools built between 31 to 45 years old were even smaller with an average OTG of 395. Schools built between 45 to 60 years ago have an even smaller average capacity at 345 pupil places. The figure below shows the average OTG of elementary schools in HWDSB’s inventory.



Section 1: Facilities at a Glance

From 2004 to 2012, the Board’s total secondary panel capacity remained stable at approximately 20,000 pupil places. HWDSB secondary enrolment counts that last matched this total capacity (20,000 pp) was in 2000 - approximately 19,500 students. Significant changes to secondary capacity took place in 2012, 2014 and 2015. Construction of a new wing at Waterdown District High School in 2012 and the closures of Hill Park, Parkside and Parkview in 2014. In 2015, an addition was completed at Saltfleet Secondary School. Please see the chart below which depicts secondary capacity since 2004.



As of October 31, 2016, the secondary enrolment was approximately 14,423 (FTE) students which equates to approximately 4,300 excess secondary pupil places. Hamilton-Wentworth District School board has approved the closure of Barton (currently the temporary site of Nora Frances Henderson Secondary), Delta, Mountain and Sir John A. Macdonald. To replace these schools, the Ministry of Education has approved the construction of Nora Frances Henderson Secondary School (Rymal Road East at Upper Sherman) and a New North Secondary school located at the former Scott Park Secondary School site. With these closures and new construction, the capacity of the secondary panel will be approximately 16,600 pp.

Section 1: Facilities at a Glance**Facility Condition Index (FCI)**

Facility condition assessments are an analysis of a building's systems and components. Systems include the architectural, mechanical, electrical and plumbing elements of a building. Each system has many components which are all inspected for deficiencies through the facility conditions assessment. Each component is assessed and remaining service life is identified. Also known as a lifecycle, the remaining service life identifies the estimated number of years the component will function in proper condition. By identifying the remaining service life of building components, the facility condition assessment can identify replacement timing and estimated costs for building components. Replacement costs represent the renewal needs. Five-year renewal needs are the total cost of repairing or replacing all the components in a school which have five or fewer years in remaining service life.

Using the five-year renewal needs, a facility condition index (FCI) can be calculated. FCI is the ratio of 5-year renewal costs to the estimated replacement value of the school facility. To calculate the FCI, divide the total estimated five-year renewal needs by the estimated replacement value. FCI is represented as a percentage. The replacement value is the estimated dollar amount needed to replace a school of the same size, built with current Ministry of Education standards. A facility with a lower FCI will require less expenditure for remedial or renewal work relative to the facility's value.

$$\text{Facility Condition Index} = \frac{\text{5 Year Renewal Needs}}{\text{Building Replacement Value}}$$

School condition and the condition of learning environments is important when ensuring equity and safety for all students. HWDSB monitors facility condition through facility condition assessments completed by VFA Canada. VFA Canada has been tasked with assessing all the schools under the Ministry of Education in Ontario. Assessments have been underway since 2012 with all school assessments completed by 2015. Schools are reassessed every 5 years. Assessment data is housed by VFA Canada. Once assessments are complete it is the responsibility of the school board to update the facility condition database based on completed capital and maintenance projects.

Facility condition assessments and FCI are both a valuable tool that assists boards in creating capital plans and assist in identifying facility needs. It is important to note that these assessments and the FCI are tools and only one factor in determining the facility condition. FCI does not account for items such as accessibility, asbestos abatement, program updates and safe school initiatives. FCI is a tool that aids Facility Management staff in identifying major renewal needs and allows staff to monitor these items as they reach the end of their lifecycle.

The table below lists FCI values of each HWDSB school. The schools are identified in 4 categories – good, average, fair and poor. The chart breaks the schools into the four categories and gives a description of each.

Section 1: Facilities at a Glance

FCI Levels	HWDSB Schools	
<p style="text-align: center;"><u>Good (0-20%)</u></p> <p>Facilities will look clean and functional</p> <p>Limited and manageable component and equipment failure may occur</p> <p>Facilities will compete well for enrolment</p>	Allan A. Greenleaf Ancaster Meadow Bellmoore Cathy Wever Dr. J Edgar Davey Gatestone Guy Brown Hillcrest Janet Lee	Lawfield Lincoln M. Alexander Prince of Wales Queen Mary Queen Victoria Ray Lewis Sir William Osler Tiffany Hills Winona
<p style="text-align: center;"><u>Average (21-40%)</u></p> <p>Facilities are beginning to show signs of wear</p> <p>More frequent component and equipment failure may occur</p>	A.M. Cunningham Adelaide Hoodless Ancaster High Balaclava Bennetto Billy Green Chedoke Cootes Paradise Franklin Road Gordon Price Helen Detwiler Hess Street James Macdonald Memorial Stoney Creek Millgrove	Mount Hope Norwood Park Orchard Park Queens Rangers Ryerson Saltfleet Sir Allan MacNab Sir Isaac Brock Sir John A. MacDonald Sir Wilfrid Laurier Sir Winston Churchill Strathcona Templemead Waterdown Westwood

Section 1: Facilities at a Glance

FCI Levels	HWDSB Schools	
<p><u>Fair (41-64%)</u></p> <p>Facilities will look worn with apparent and increasing deterioration</p> <p>Potential frequent component and equipment failure may occur</p> <p>The facility will be at a competitive disadvantage and enrolment could be impacted</p>	Buchanan Park Cecil B. Stirling Central Colligate Avenue Dr. John Seaton Dundana Dundas Valley Earl Kitchener Eastdale Michaelle Jean Fessenden Flamborough Centre George L. Armstrong Glen Brae Glen Echo Glendale Glenwood Green Acres Greensville Holbrook	Huntington Park Lake Avenue Mary Hopkins Memorial Hamilton Mountain View Mountview Mountain Secondary Nora Frances Henderson Pauline Johnson Queensdale RA Riddell RL Hyslop Sherwood Spencer Valley Tapleystown Westdale Westview Yorkview
<p><u>Poor (65%+)</u></p> <p>Facilities will look worn with obvious deterioration</p> <p>Enrolment failure in critical items more frequent. Occasional building shut down could occur. Management risk is high</p> <p>The facility will be at a competitive disadvantage and will be at a high risk of enrolment shortfall</p>	Ancaster Senior Beverly Central CH Bray Dalewood** Delta Dundas Central Elizabeth Bagshaw Highview Lisgar	Mount Albion Parkdale Richard Beasley Ridgemount** Rosedale Rousseau Viscount Montgomery WH Ballard Westmount

** Note: Capital work at Dalewood and Ridgemount have not been taken into consideration for this analysis.

Section 2: HWDSB Properties

When a property is no longer required (closed school or vacant property) for school or administration use, it is deemed surplus by the Board of Trustees and can be sold at fair market value following the procedures outlined in Ontario Regulation 444/98. Board owned properties are deemed surplus after staff investigates the possibility of using the property as a school site through analyzing enrolment projections, demographic information and Ministry direction. When these factors indicate that a property will not be needed to address long-term accommodation, the property is deemed surplus. The Board has a Property Disposition Policy that ensures our partners and the community are made aware of the sale of any Board lands prior to disposal. This means that stakeholders have time to work with their community partners to evaluate their interests in the land for their neighbourhood.

In June 2015, the Ministry of Education released the Proceeds of Disposition (POD) Policy which incorporates several changes of how Proceeds of Disposition can be spent. As per the policy PODs must be used for the repair or replacement of components within a school. Boards must spend a minimum 80% of their PODs to substructure (e.g. foundations, walls), superstructure (e.g. roofs, window) and service (e.g. plumbing, HVAC, Fire). The remaining 20% can be used to address the three above-mentioned categories as well as interiors, equipment, furnishings, special construction and building site work. Boards can request to use PODs for capital priorities (e.g. new schools, replacement school) through a Minister's exemption.

Ontario Regulation 444/98

Ontario Regulation 444/98: Disposition of Surplus Real Property is the legislated process the Board must follow when disposing of its surplus properties. The current HWDSB Property Disposition Policy includes a 60-day public consultation period prior to initiating the disposition of property through Regulation 444/98. Once the public consultation period is complete, the Board can make a recommendation to declare the property surplus and commence with disposition through Ontario Regulation 444/98. Before a site can be placed on the open market, it must be offered to a list of preferred agencies (see below). If no offer or agreement is reached with a preferred agent, the property can be sold on the open market.

For more information on the O. Reg 444/98 please see: <https://www.ontario.ca/laws/regulation/980444>

For more information on [HWDSB's Property Disposition Policy](#) and [Property Disposition Procedure](#), please follow the links to HWDSB's website.

Educational Development Charge By-Law

Hamilton-Wentworth District School Board (HWDSB) adopted its Education Development Charge (EDC) By-law on August 25, 2014. EDCs are a primary source of funding site acquisition needs for a school board experiencing growth within its jurisdiction. The By-law has a term of five years and applies to building permit applications that have been submitted to the City of Hamilton after August 29, 2014. This is in relation to a building or structure for below ground or above ground construction. The By-law will expire on August 29, 2019.

Based on this assessment, the following rates were imposed when the By-law came into effect on August 30, 2014: \$1,039 per residential unit and \$0.39 per square foot of gross floor area of non-residential development

Section 2: HWDSB Properties

Property Name	Size in Acres	ARC Funding Strategy	Declared Surplus	Board Approved Phase 1	Public Information Session Completed	*180-day Circulation to Preferred Agents Completed	Ministry Approval Open Market of Site
Section 1 - Sold Properties between Sept. 2015 to May 1, 2017							
Bell-Stone School & Site	11.25	Yes	Yes	Yes	Yes	Yes	Yes
Broughton Vacant Land	9.47	Yes	Yes	Yes	Yes	Yes	-
Eastmount Park School & Site	1.67	Yes	Yes	Yes	Yes	Yes	-
Parkside Secondary & Site	4.09	Yes	Yes	Yes	Yes	Yes	-
Roxborough Park School & Site (Offer Rec'd)	4.29	Yes	Yes	Yes	Yes	Yes	Yes
Victoria Vacant Land	7.70	No	Yes	Yes	Yes	Yes	Yes
Woodward Ave. School & Site	4.25	Yes	Yes	Yes	Yes	Yes	Yes
Total	<u>42.72</u>						
Section 2 - Properties Declared Surplus							
Cardinal Heights (severed from Pauline Johnson site)	4.19	Yes	Yes	Yes	-	-	-
Carpenter Vacant Land	9.92	No	Yes	Yes	Yes	Yes	Yes
Jerome Vacant Land	26.13	Yes	Yes	Yes	Yes	Yes	Yes
King George School (Severed from former Parkview Site)	1.80	Yes	Yes	Yes	-	-	-
Mountain Secondary (**Rear Portion of Site 0.51+/- ac being circulated) Remaining lands to follow in due course	7.57	Yes	Yes	Yes	Yes	Yes**	-
Total	<u>49.61</u>						
Section 3 - Properties Eligible for Disposition Process							
Secondary							
Barton* (Holding School until June 2018)	14.95	Yes	-	-	-	-	-
Delta	6.19	Yes	-	-	-	-	-
Sir John A. Macdonald	8.02	Yes	-	-	-	-	-
Sub total	<u>29.16</u>						
Elementary							
Beverly Central	3.94	Yes	-	-	-	-	-
Dr. J. Seaton School & Site	14.43	Yes	-	-	-	-	-
Linden Park (shared site with Hill Park - LP lands being severed from HP site)	4.86	Yes	-	-	-	-	-
Spencer Valley School & Site	8.53	Yes	-	-	-	-	-
Sub total	<u>31.76</u>						
Total	<u>60.92</u>						
Section 4 - Properties on Hold							
Confederation Beach Vacant Site - ESA Lands	3.95	No	n/a	n/a	n/a	No	-
Falkirk West Vacant Site - ESA Lands	6.00	No	Yes	Yes	Yes	No	-
Hill Park (shared site with Linden Park - LP lands being severed from HP site)	8.18	Yes	-	-	-	-	-
Total	<u>18.13</u>						

*Note: Effective September 1, 2017 the Ministry of Education expanded the Preferred Agencies list and increased the circulation period for a sale proposal from 60-days to 180-days.

Section 2: HWDSB Properties

HWDSB Properties Sold Since Amalgamation 1998 to Current Date					
Schools Closed & Sold	Year Closed	Year Sold	Sizes (acres)	Purchasers	Amount
George P. Vanier	1998	1998	3.62	CSD Du Centre-Sud-Ouest (French Board)	\$1
Ainslie Wood	1994	2000	4.54	Columbia International College	\$800,000
Pioneer Memorial	1983	2000	7.01	1150683 Ontario Ltd. Maureen Worrone-Sauve	\$165,000
Briarwood	1990	2000	7.00	Brock University	\$1,800,000
Binkley	1979	2000	0.94	1408133 Ontario Inc. c/o Greg Ressel	\$370,000
Jerseyville	1996	2000	2.16	Judith Anne Evans	\$152,100
Allenby	2001	2002	1.26	1502465 Ontario Inc. c/o Michael Valvasori	\$665,000
Bennetto	2002	2003	1.72	City of Hamilton	\$900,000
Parkwood	2003	2003	6.51	Hamilton Malayalee Samajam	\$275,001
Lynden	2003	2003	4.00	Gowlings Holding	\$225,000
Fernwood Park & Hampton Heights	2003	2003	5.52	Adisco Limited	\$1,334,000
Sheffield	2003	2003	2.50	Grace Covenant Church	\$150,000
Sherwood Heights	2003	2004	4.38	CSD Du Centre-Sud-Ouest (French Board)	\$1
Scott Park	2001	2004	1.53	Hero Champ Realty Development Inc. Mr. Mo	\$650,000
Fairfield	2004	2004	2.40	City of Hamilton	\$535,000
Peace Memorial	2003	2004	3.65	City of Hamilton	\$820,500
Pleasant Valley	2004	2004	4.38	Schuit Homes Inc. Gerry Schuit	\$1,026,000
Ryckman's Corners	2003	2004	2.48	Sulphur Springs Dev.	\$576,000
Lloyd George	2003	2005	1.73	Mo (Hero Champ Realty)	\$250,000
Tweedsmuir	2004	2005	0.91	City of Hamilton	\$325,000
University Gardens	2004	2005	3.71	2072581 Ontario Ltd.	\$1,325,000
Thornbrae	2005	2005	6.13	A. Desantis Developments	\$1,925,000
Burkholder Drive	2005	2005	4.98	Timothy Canadian Reformed	\$1,900,000
Grange	2005	2005	4.34	City of Hamilton	\$1,576,201
Robert Land	2004	2006	2.15	Robert Land Community Centre	\$330,000
Central Park	2007	2009	5.26	2066490 Ontario Inc.	\$630,000
Dundas District	2007	2009	3.27	Michale Valvasori	\$600,000
Seneca	2007	2009	7.19	Nicola Galli Enterprises Limited	\$2,352,000
Gibson	2009	2009	1.27	Stephen Barber	\$151,100
Stinson	2009	2009	1.48	DHLP Management Inc.	\$1,050,000
Vern Ames	2007	2009	5.00	City of Hamilton	\$1,875,000
Ancaster Memorial	1979	2014	4.03	City of Hamilton	\$3,000,000
Winona (Old) School	2011	2014	5.00	City of Hamilton	\$2,800,000
Prince Philip School	2014	2015	5.41	Conseil scolaire Viamonde	\$3,650,000
Maple Lane School	2005	2015	2.62	1921753 Ontario Ltd.	\$3,310,000
Bell-Stone School	2014	2015	11.25	Glancaster Canadian Reformed Society	\$1,200,000
Parkside Secondary	2014	2016	4.09	City of Hamilton	\$3,400,000
Roxborough Park School	2015	2016	4.29	Carriage Gate Urbancore	\$4,130,000
Eastmount Park School	2015	2016	1.69	City of Hamilton	\$1,025,000
Woodward Ave School	2015	2016	4.25	Losani Homes	\$1,800,000
Sub Total			155.65		\$49,047,904

Section 2: HWDSB Properties

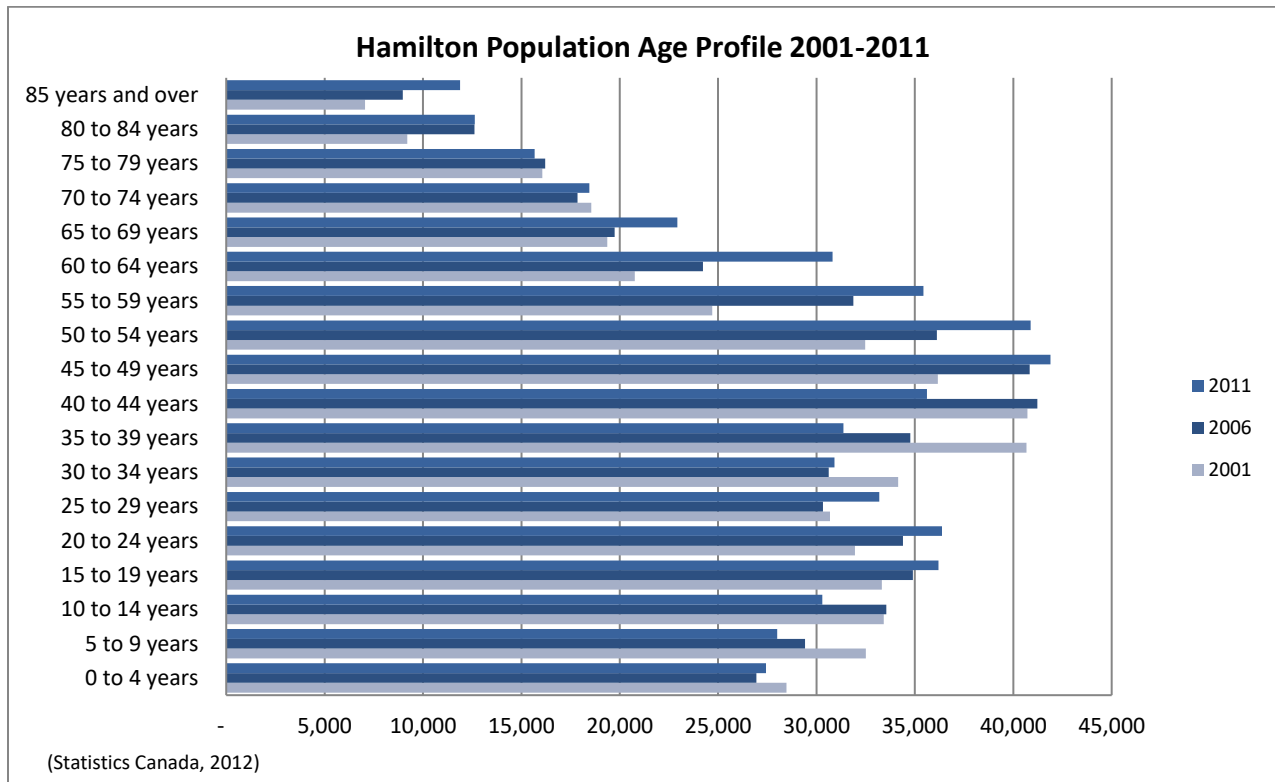
Land Sold	Type	Year Sold	Size (acres)	Buyer	Amount
220 Dundurn	Warehouse	1998	3.03	Dundurn Street Lofts	\$400,000
Crerar	Vacant Land	1999	6.00	CSD Du Centre-Sud-Ouest (French Board)	\$1
Chappel East/West	Vacant Land	2001	7.61	Benemar Construction Inc.	\$1,100,000
Eleanor	Vacant Land	2003	8.76	Casablanca Properties	Exchange
Pt of Parkdale	Strip of Land	2007	0.14	City of Hamilton	\$17,500
Templemead Lots	20 Lots	2007	2.17	Multi-Area Development	\$2,000,000
Pt of Templemead	Portion of Land	2007	2.89	City of Hamilton	\$450,000
Pt of James Macdonald	Strip of Land	2008	0.70	1419690 Ontario Inc.	\$189,135
Pt of Dundas District	Vacant Land	2008	2.48	City of Hamilton	\$1,000,000
Greenhill	Vacant Land	2009	7.97	City of Hamilton	\$2,988,750
Albion Wil-Bar – 150 Pritchard Rd.	Vacant Land	2009	5.40	City of Hamilton	\$32,500
Ryckman's – 0 Dicenso Dr.	Vacant Land	2009	5.74	City of Hamilton	\$1,877,187
Kirkwall – 1434 Kirkwall Rd. Flamborough	Vacant Land	2009	0.93	D'Angelica & Gerdes	\$140,333
Kernighan - 887 West 5th Street	Vacant Land	2011	4.17	Parkside	\$1,731,450
Hannon - 360 Anchor Rd.	Vacant Land	2011	9.00	City of Hamilton	\$54,000
South Shore - Francis Ave. Stoney Creek	Vacant Land	2011	5.00	King-tis Investments	\$2,070,000
Vincent Massey Severed Land	Vacant Land	2011	2.47	City of Hamilton	\$1,000,000
Red Hill Severed Land	Vacant Land	2012	1.40	Sprinbrook West Developments Inc.	\$840,000
Mewburn	Vacant Land	2013	5.00	A. DeSantis Developments	\$2,735,000
Bennetto Strip of Land	Strip of Land	2013	0.85	North Hamilton Community Health Centre	\$120,000
Sir Allan MacNab (Portion of site)	Vacant Land	2013	4.24	City of Hamilton	\$1,800,000
Albion Ksivickis	Vacant Land	2014	8.01	Effort Investment Corporation	\$2,000,000
Lewis Rd. (Severed Site)	Vacant Land	2014	5.58	City of Hamilton	\$1,465,640
Mohawk Trail	Vacant Land	2015	0.26	Tuscany Hills	\$251,000
Sheldon	Vacant Land	2015	29.05	City of Hamilton	\$7,003,030
Broughton Ave. E., Hamilton	Vacant Land	2015	9.47	Conseil Scolaire de District Catholique Centre-Sud	\$5,575,000
Victoria - 1287 Centre Rd., Flamborough	Vacant Land	2015	7.73	Chris Cashin	\$451,400
Sub Total			146.05		\$37,291,926

Grand Total	301.7	\$86,339,830
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Population Trends

The City of Hamilton is comprised of six communities - Ancaster, Stoney Creek, Dundas, Flamborough, Glanbrook, and Hamilton. With a population of 519,949 in 2011, the City of Hamilton is ranked 5th largest city in the province of Ontario and 10th in Canada. Since 2006, Hamilton has seen a 3.1% population growth, which is below Ontario's provincial population growth of 5.7%. (Statistics Canada, 2012)

Hamilton's population age profile, based on 2001, 2006 and 2011 census data from Statistics Canada, illustrates the age distribution of the city's population.



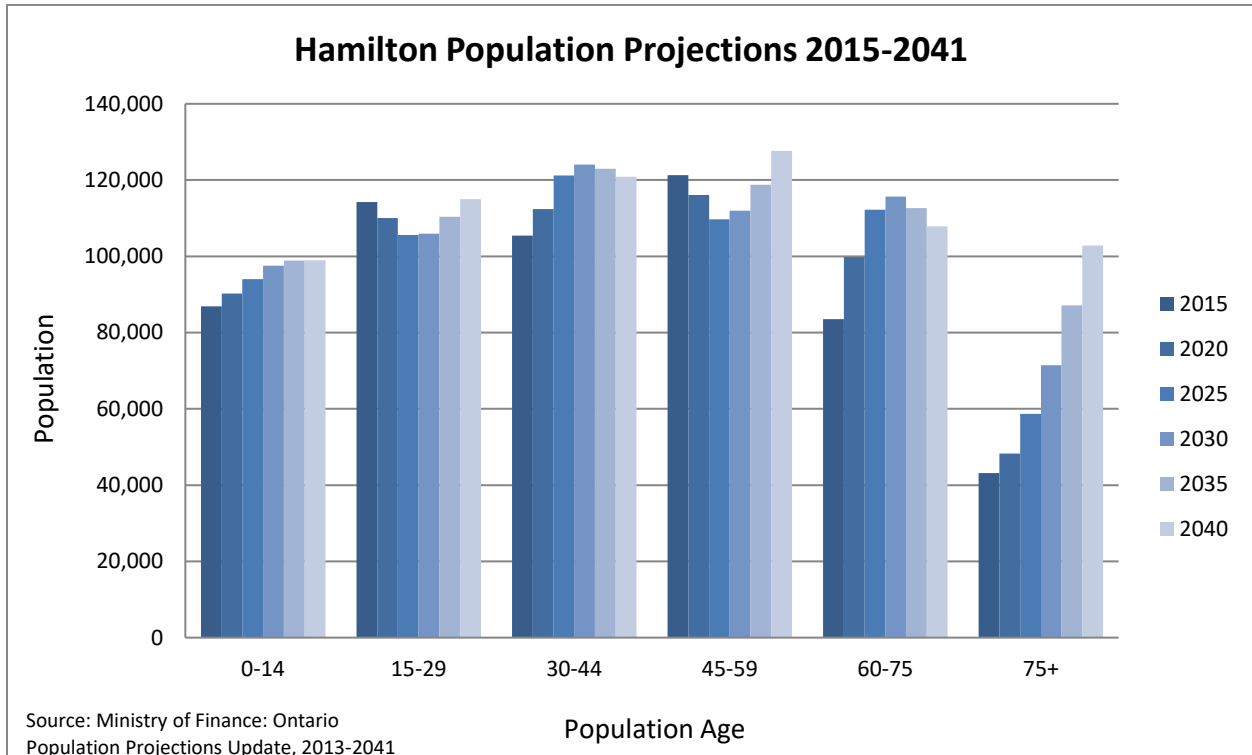
The figure above illustrates the change in population, by age, since 2001. Since 2001, Hamilton's total population has increased from 490,270 to 519,950, which is an increase of 6.1%. In Hamilton, the largest increase in population for the 2001 to 2011 period occurred between the ages of 45 to 65. This twenty year age cohort is the baby boom generation which was responsible for much of Hamilton's school infrastructure growth from the 1950's to the 1970's and is now contributing to Hamilton's and Ontario's overall aging population. In the 1980's and 1990's, the baby boom generation entered into adulthood and typical child-bearing years, which kept the school age population steady. With the baby boomers in the age range of 40 to 60 in the early 2000's, a new smaller group of adults moved into their typical child-bearing years and has resulted in a decrease of school-age children over the past 10 years.

Along with this increase in aging population, there is a parallel decrease in the number of school-age children. Currently, these effects are being felt in Hamilton and Ontario. In Hamilton, from 2001 to 2011 the population of children between the ages of 5 and 19 has dropped 4.8% in Hamilton. (Statistics Canada, 2012) Although Hamilton's

overall population continues to grow, the population of school age children is decreasing, however, this will begin to level off and is projected to rise in the future as the following section will illustrate.

Population Projections

According to the Ontario Ministry of Finance Population Projections update for 2014, Hamilton’s population is projected to increase over the next 25 years. Ontario’s population is projected to increase by 4.2 million to 17.8 million which is a 31.3 per cent increase. Hamilton’s population is projected to increase by 30 percent from 519,950 to 677,564 by 2041. (Ministry of Finance, 2014)



The figure above illustrates the projected change in Hamilton’s population over the next 25 years. The most noticeable change occurs in the age ranges 60-75 and 75 plus years. The rapid increase of elderly people is due to the aging baby boom generation. Another change of note is the variation in the 0-14 cohort. From 2015 to 2035 the number children ages 0-14 is projected to increase at a stable rate from just fewer than 87,000 to just less than 99,000. This increase is a result of the echo generation reaching their child-bearing years. It is expected with this change in the age profile there will be an increase in school age children in Hamilton starting in approximately the early 2020’s and continuing the next 15 years.

HWDSB’s enrolment projections do not increase parallel to Ministry of Finance population projections. However, HWDSB elementary and secondary enrolments are projected to increase by 2024. This is based on current trends, mobility patterns, and housing yields that are HWDSB focussed - grounded on historic enrolment and current residential development expectations. HWDSB enrolments projections are compared against historical enrolments, population forecasts, census and birth data in order to validate that population information is trending in a similar manner. Section 6 gives a detailed overview of enrolment projection methodology and background data used.

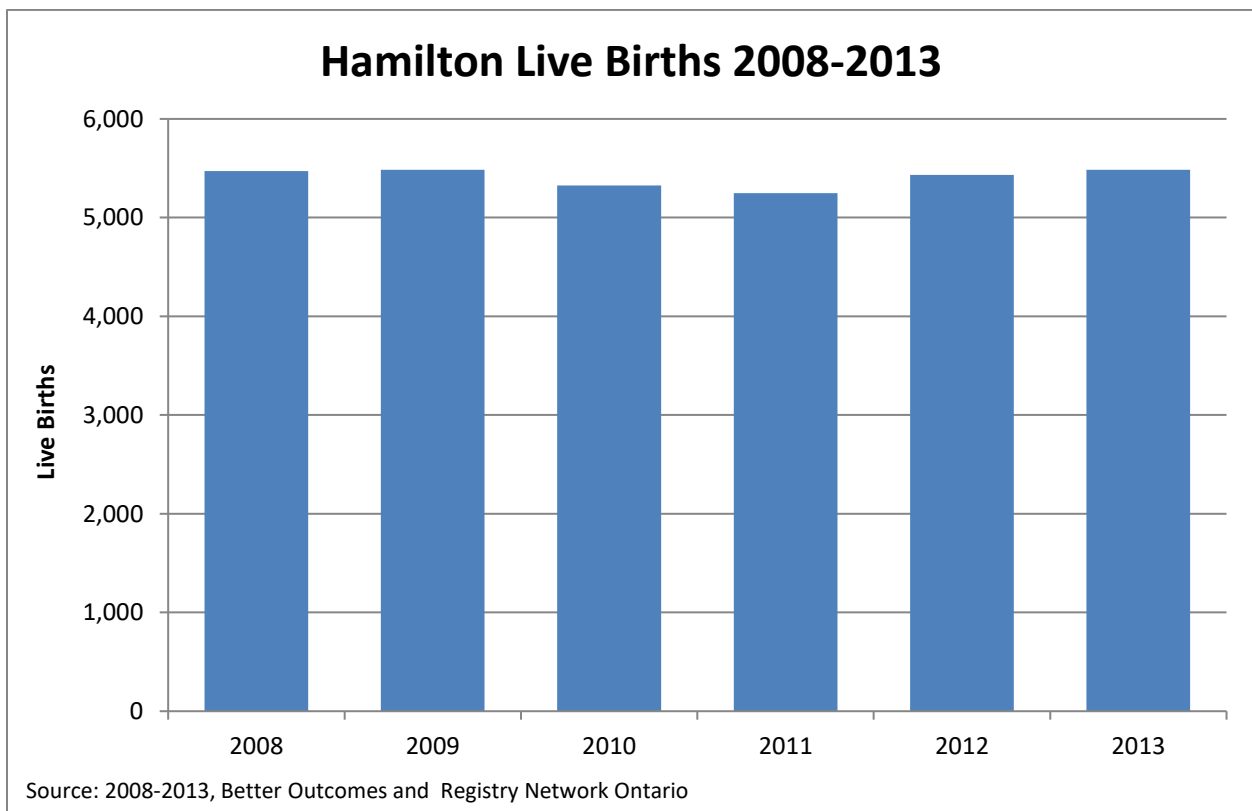
Live Birth Data

The Total Fertility Rate (TFR) in Ontario has decreased over the past twenty years. (Ministry of Finance, 2014) In 2002, Ontario reached its lowest TFR of 1.48 children per woman. The latest available data from 2011 shows a slight increase to 1.55, but this is very low in comparison to the baby boom era when the fertility rate was as high as 3.8 children per woman. (Ministry of Finance, 2014)

The replacement rate of population is 2.1 children per woman, meaning that Ontario will be dependent on immigration and migration to maintain the replacement rate or population growth. In 2008, Hamilton’s CMA had a total fertility rate of 1.59 children per woman (Statistics Canada, 2011). With Hamilton’s TFR lower than the replacement rate of 2.1, immigration and migration are significant factors in Hamilton’s population growth and will likely continue to be into the future.

Although the birth rate is projected to remain low, the number of women entering the typical child-bearing years will increase in the near future as part of the aging echo generation. As a result, there is a projected increase of births in the 2020’s; however, the number is not projected to increase to near the level of the baby boom generation.

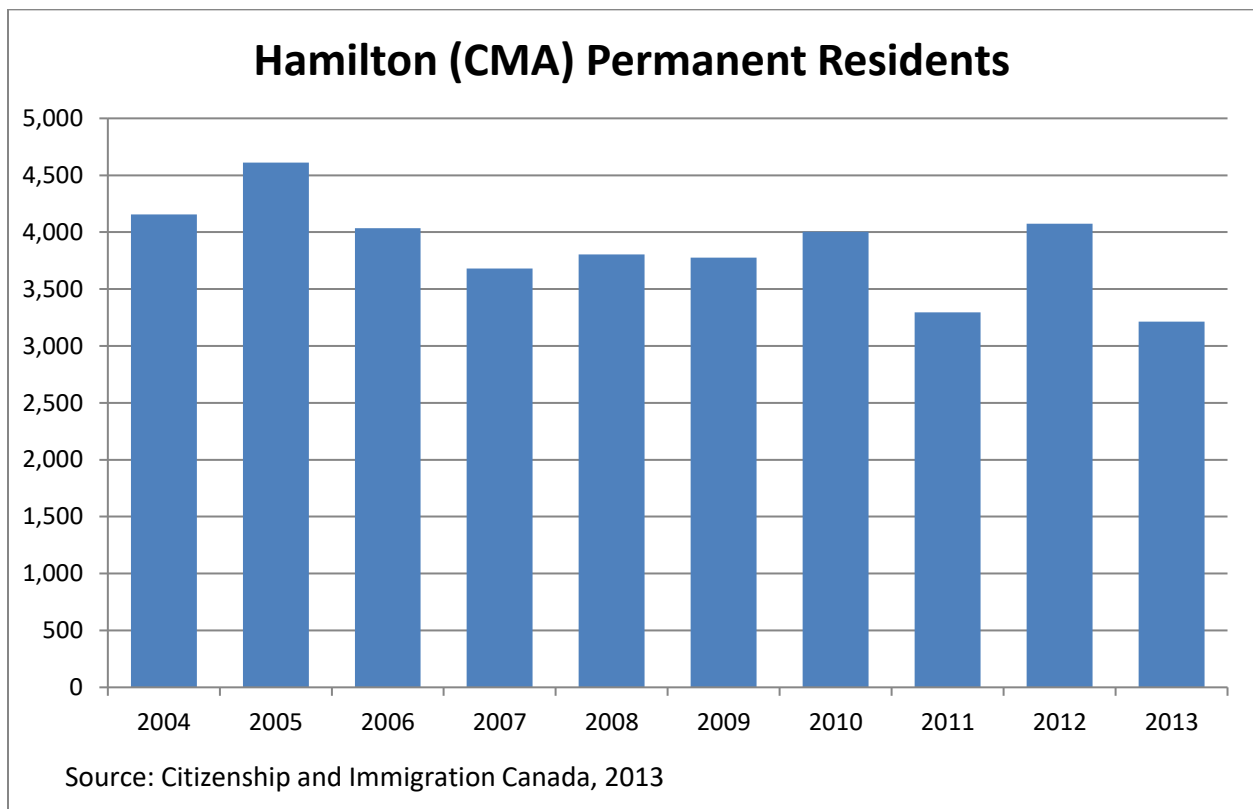
In Hamilton, the number of live births between 2008 and 2013 has remained consistent averaging approximately 5,400 live births per year.



Immigration

Immigration has played a significant role in Hamilton's population change and this is projected to continue in the future. Immigration data for Hamilton is based upon the Census Metropolitan Area (CMA), which not only includes Hamilton's city limits but Burlington and Grimsby, which are outside of the Hamilton-Wentworth District School Board's jurisdiction. This information is meant to give an overview of how immigration affects the region.

From 2002 to 2011 Hamilton's CMA has averaged approximately 3,800 new landings a year. A new landing is an official arrival of a new permanent resident to Canada. Ontario averaged approximately 119,000 new permanent immigrants from over the same 10-year period. According to Citizenship and Immigration Canada data, Hamilton over the past 10 years has averaged 3.2 per cent of newly landed permanent immigrants ranking third in Ontario CMAs behind Ottawa-Gatineau of 5.38 per cent and Toronto's CMA 79.56 per cent. (Citizenship and Immigration Canada, 2011) Although Hamilton's CMA percentage seems low, it is higher than that of most cities in Ontario. The figure below shows the number of permanent immigrants in Hamilton's CMA over the last 10 years.



Over the past 10 years, Hamilton's CMA has consistently had between 3,000 and 4,500 new permanent residents land in Hamilton. From the 1970's to 1990's, Hamilton was a destination of choice for new permanent residents, but over the last 10 years, immigration has declined. However, approximately 40 per cent of Hamilton's total new permanent resident population settled prior to 1971 (Wayland, 2010). Although Hamilton's CMA does have a healthy influx of newcomers each year, it has been generally decreasing since the 1970's. Due to the amount of new permanent residents in Hamilton, there are indications that certain areas within the city have become more transient.

Section 4: Residential Development

Tracking development is important in the formation of enrolment projections. Ensuring that projected enrolments account for future housing developments allows for Planning and Accommodation to have a proactive approach in areas of the city with new development. Determining the potential timing of residential development requires continuous monitoring.

The City of Hamilton has been averaging over 1815 housing completions per year since 2013¹. With limited vacant residential land in Hamilton, a change from predominantly single family home neighbourhoods to neighbourhoods with a combination of single houses, semidetached, townhouses and mixed-use buildings have occurred. Since 2013, 35% of the housing completions in Hamilton have been townhouses, 55% have been single family homes. 5% have been semi-detached homes and the other 10% are apartments.¹ The trend of higher density housing is expected to continue based on the residential development plans circulated by the City of Hamilton. Hamilton's Planning and Economic Development Department released a Residential Intensification Guide which focuses on redevelopment, infill housing, reuse of land, and new development that involves combining mixed use housing and high density housing.

In 2016, housing starts rebounded in Hamilton's CMA up 662 units from 2015 to 2016¹. Charts on the following page depict the housing starts and housing completions from 2013 to 2016 in Hamilton. Canadian Mortgage and Housing Corporation is projecting total housing starts will remain consistent in 2016 throughout Hamilton into 2017 and 2018.² Areas of strong residential growth will continue to yield new houses and students. Schools in Winona, Upper Stoney Creek, Binbrook and Flamborough will continue to have accommodation pressures until new land is available for HWDSB to purchase and construct new facilities.

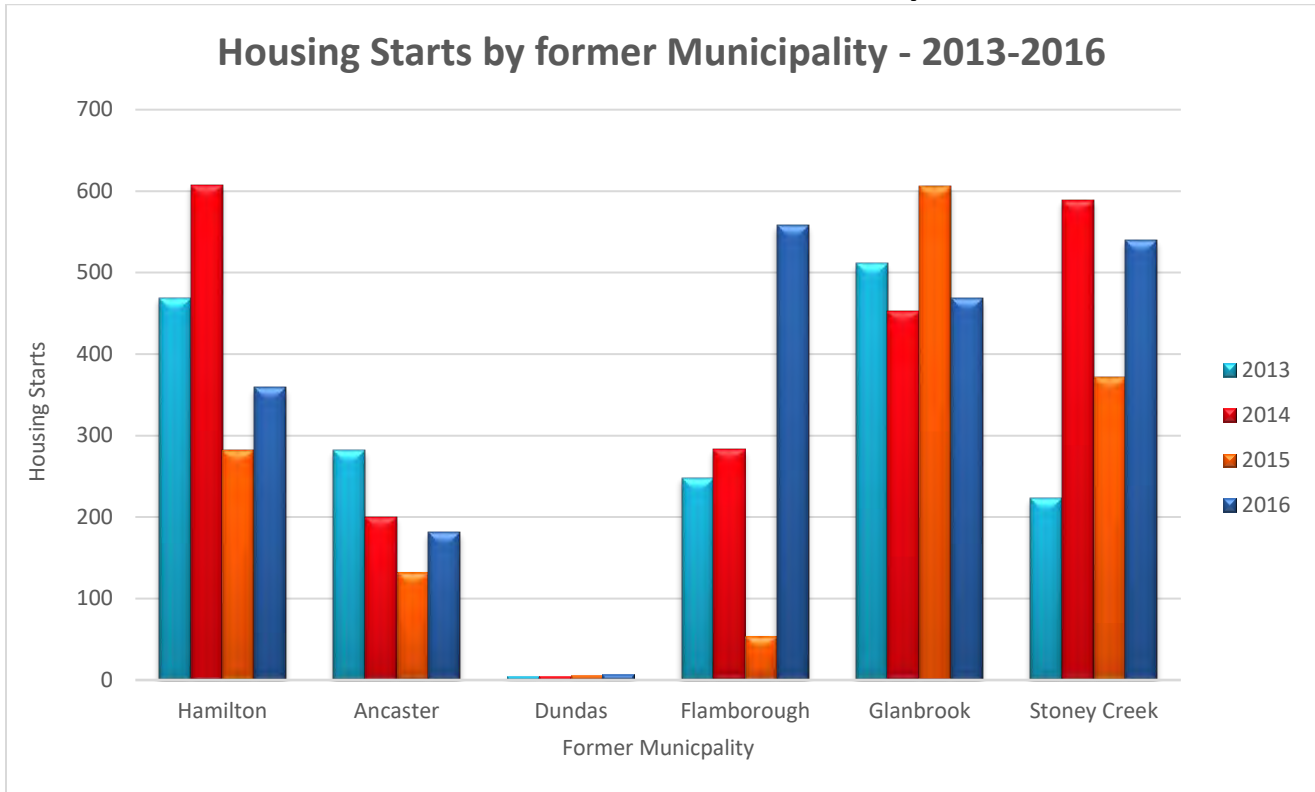
In January 2017, Tiffany Hills Elementary School was completed in the Meadowlands area of Ancaster to accommodate students from new development. In Glanbrook/Upper Stoney Creek, a school site in the Summit Park neighbourhood was purchased and the Ministry of Education approved the funding for a new 625 pupil place JK-8 school. Additional school sites in Binbrook, Upper Stoney Creek, Flamborough and Winona have been identified through the City of Hamilton's secondary plans. HWDSB will purchase these lands once available to do so.

On pages 3-6 of this section are maps illustrating the lands that have been identified through the City of Hamilton circulation as being in in the subdivision and condominium application process.

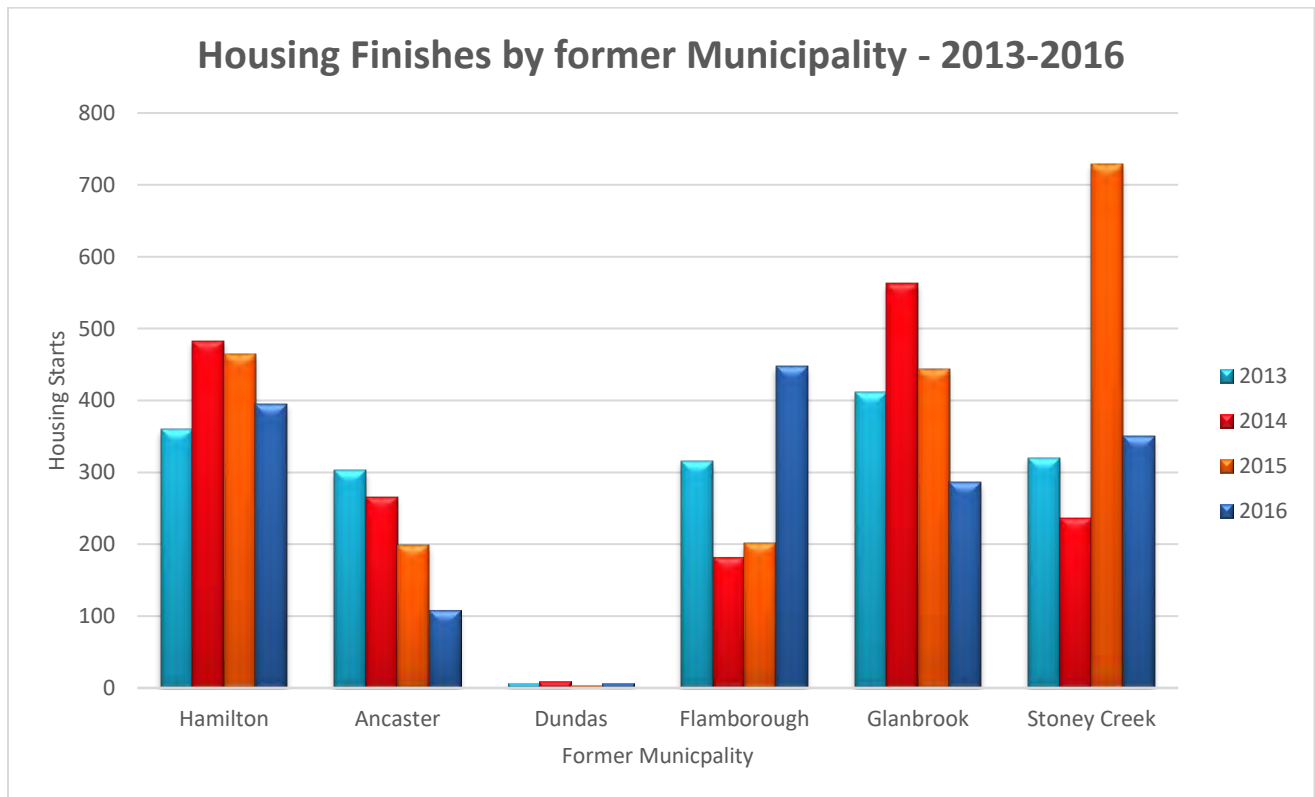
¹ Housing Market Tables: Selected South Central Ontario. Canadian Mortgage and Housing Corporation. January 2017

²Housing Market Outlook: Hamilton CMA. Canadian Mortgage and Housing Corporation. Fall 2016

Section 4: Residential Development

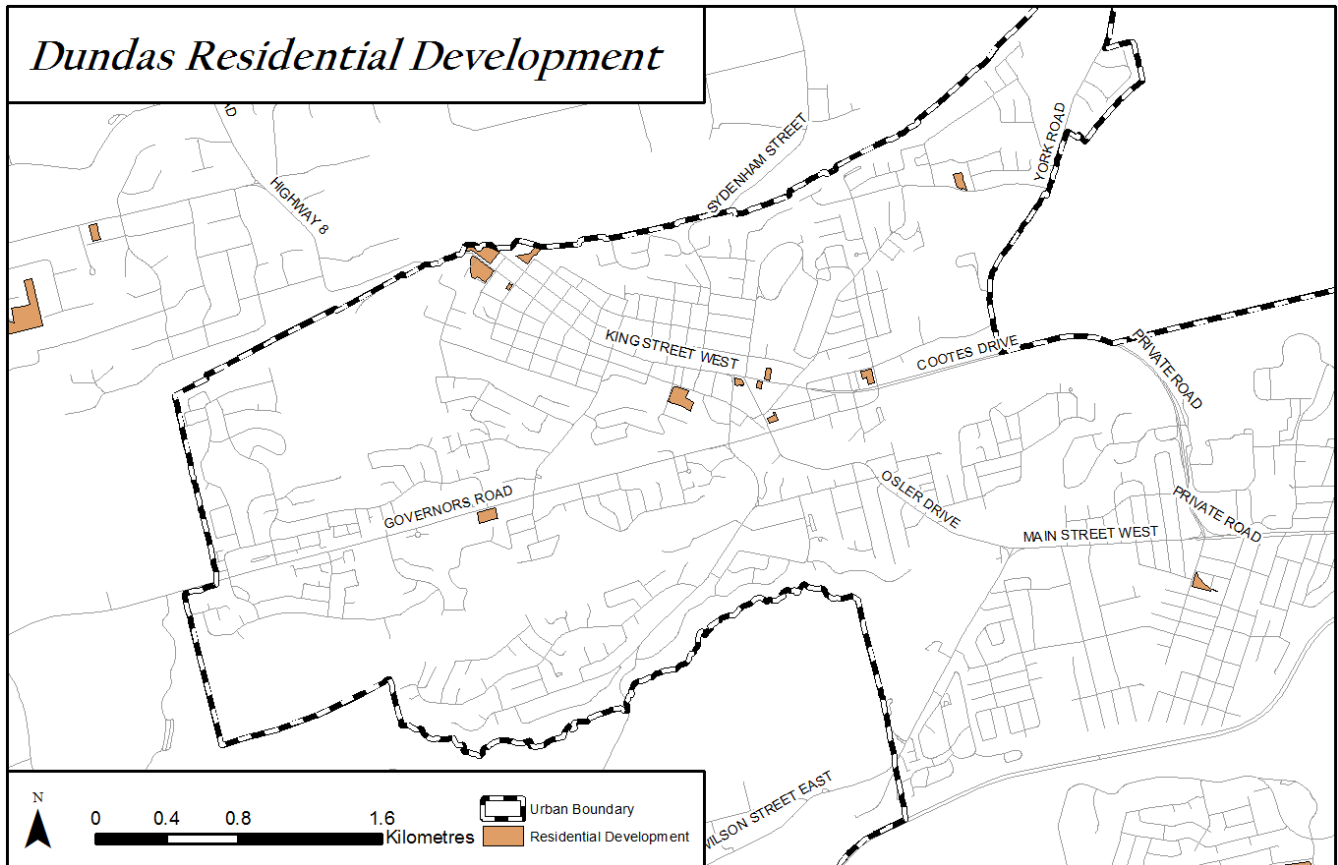
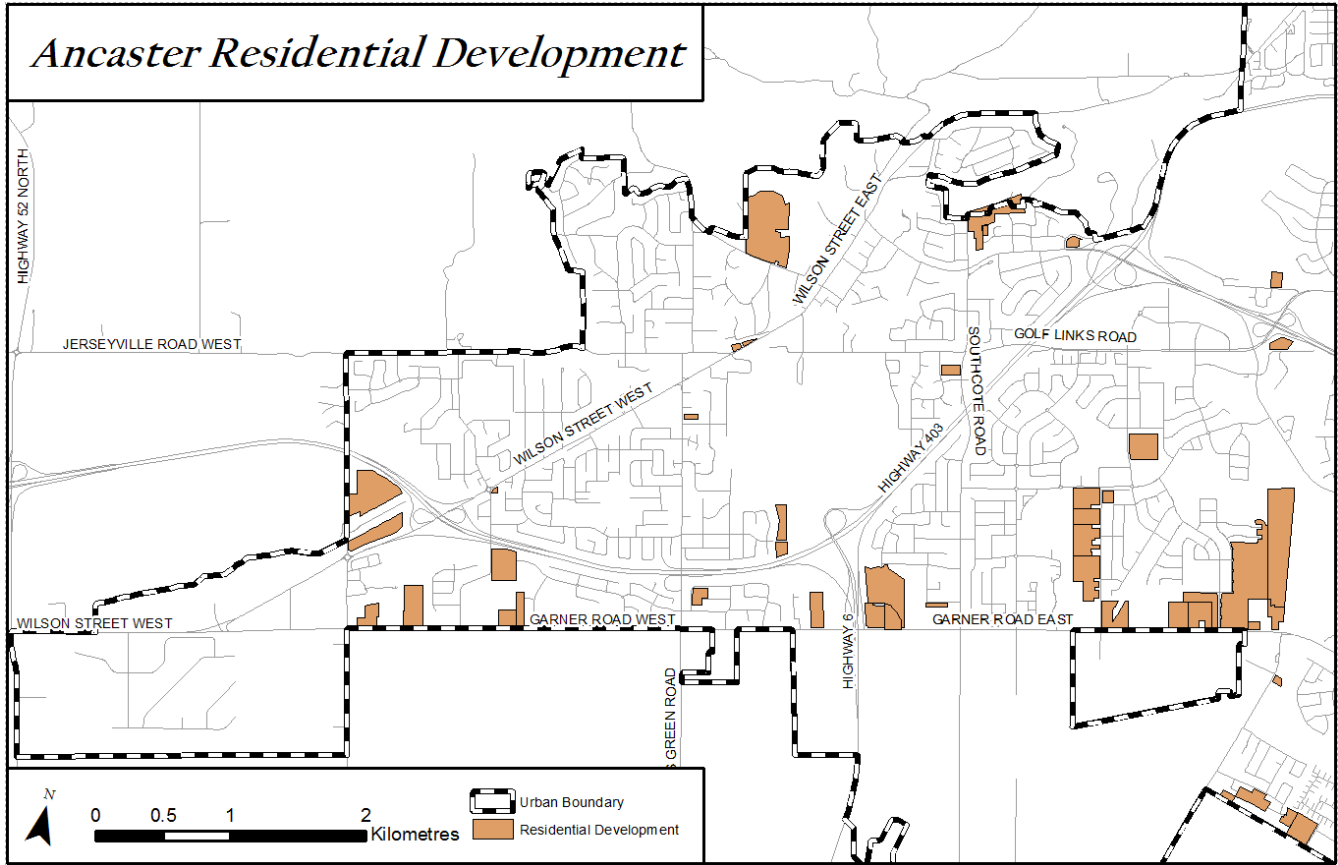


Source: Housing Market Tables: Selected South Central Ontario. Canadian Mortgage and Housing Corporation. January 2017

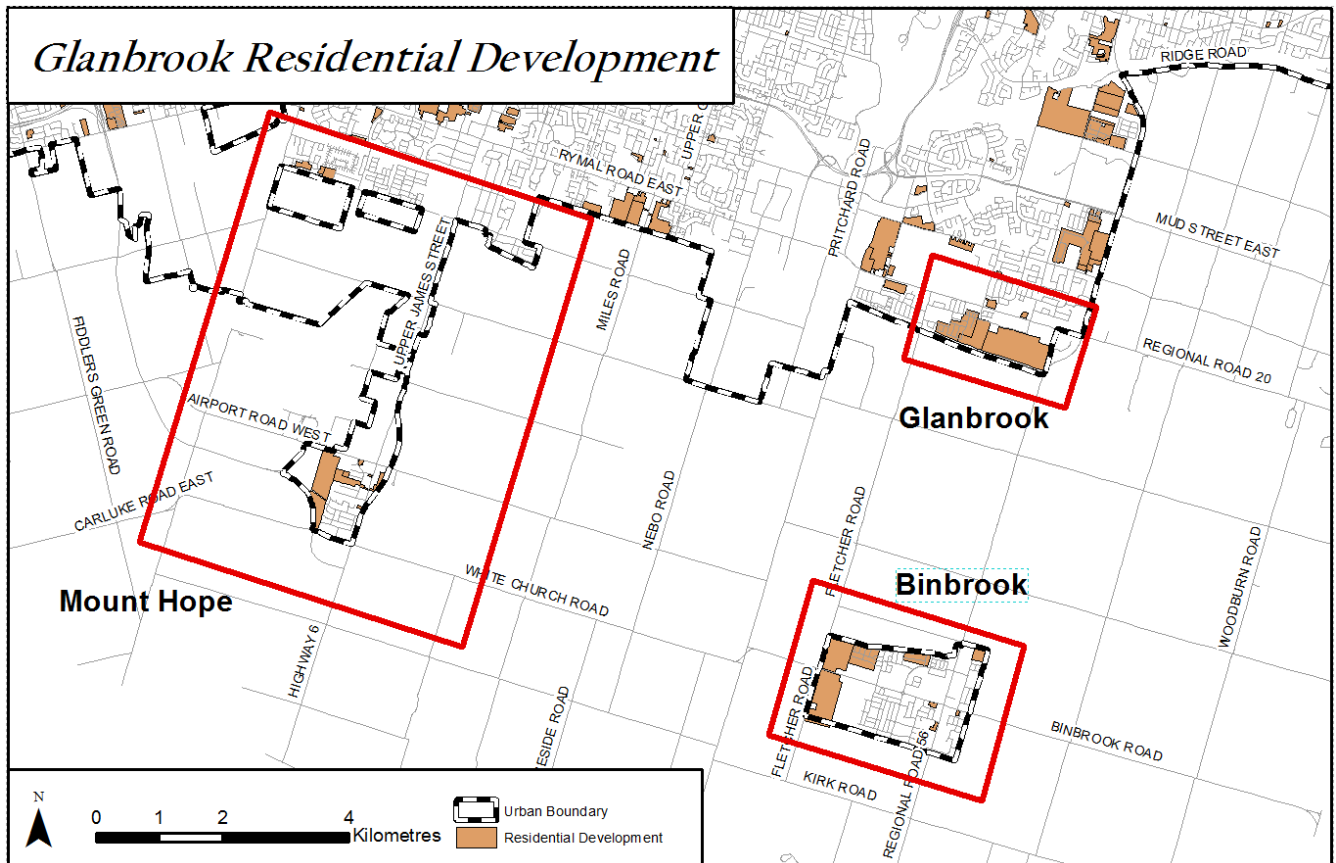
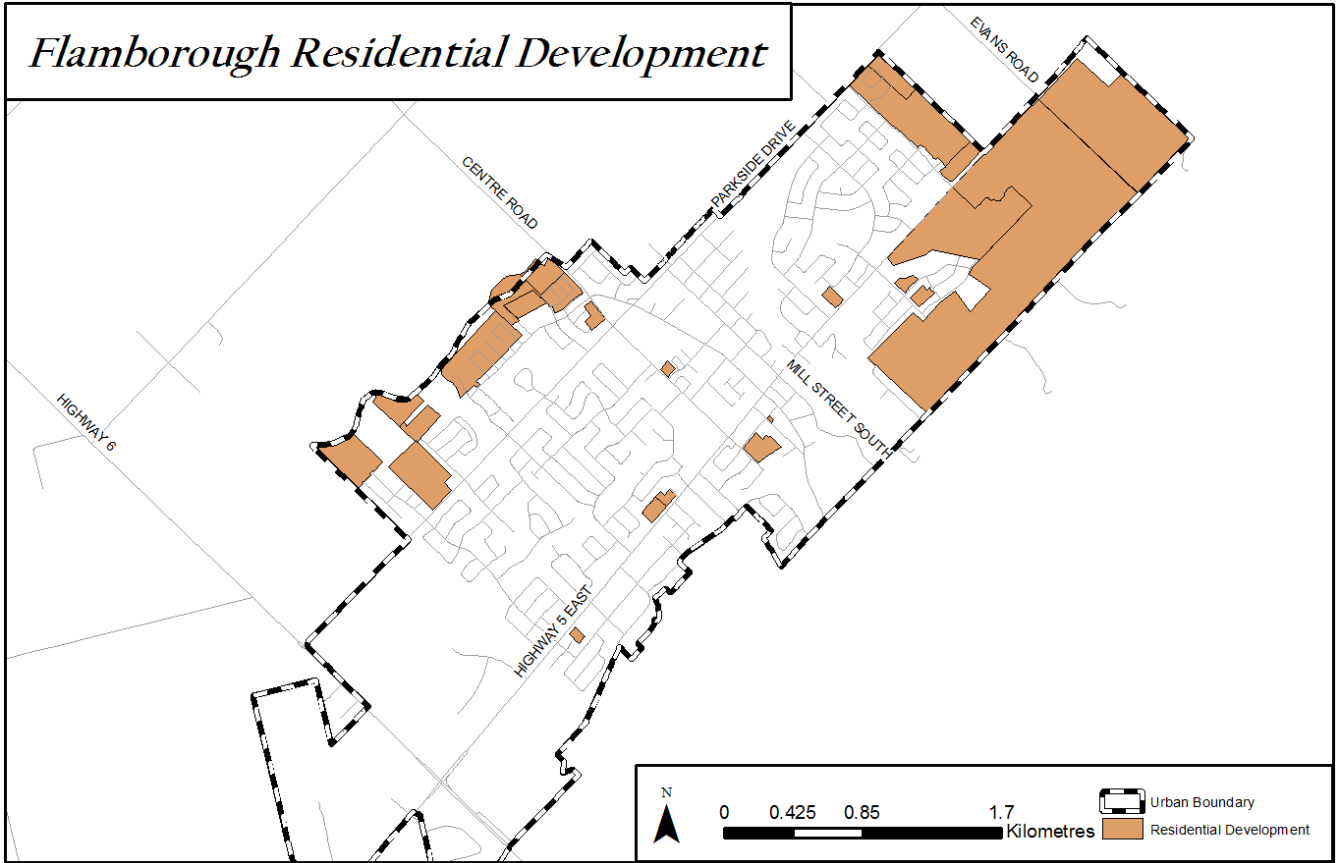


Source: Housing Market Tables: Selected South Central Ontario. Canadian Mortgage and Housing Corporation. January 2017

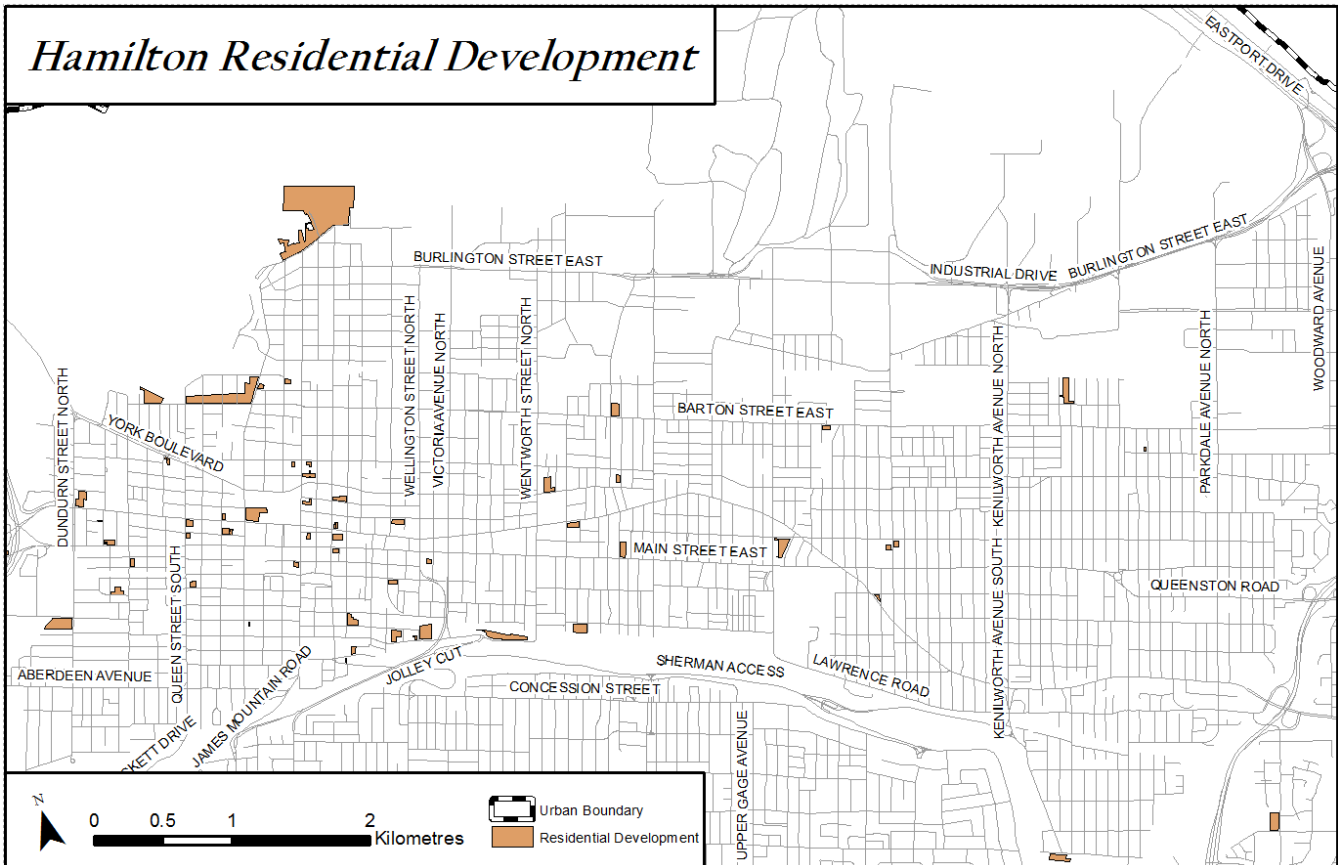
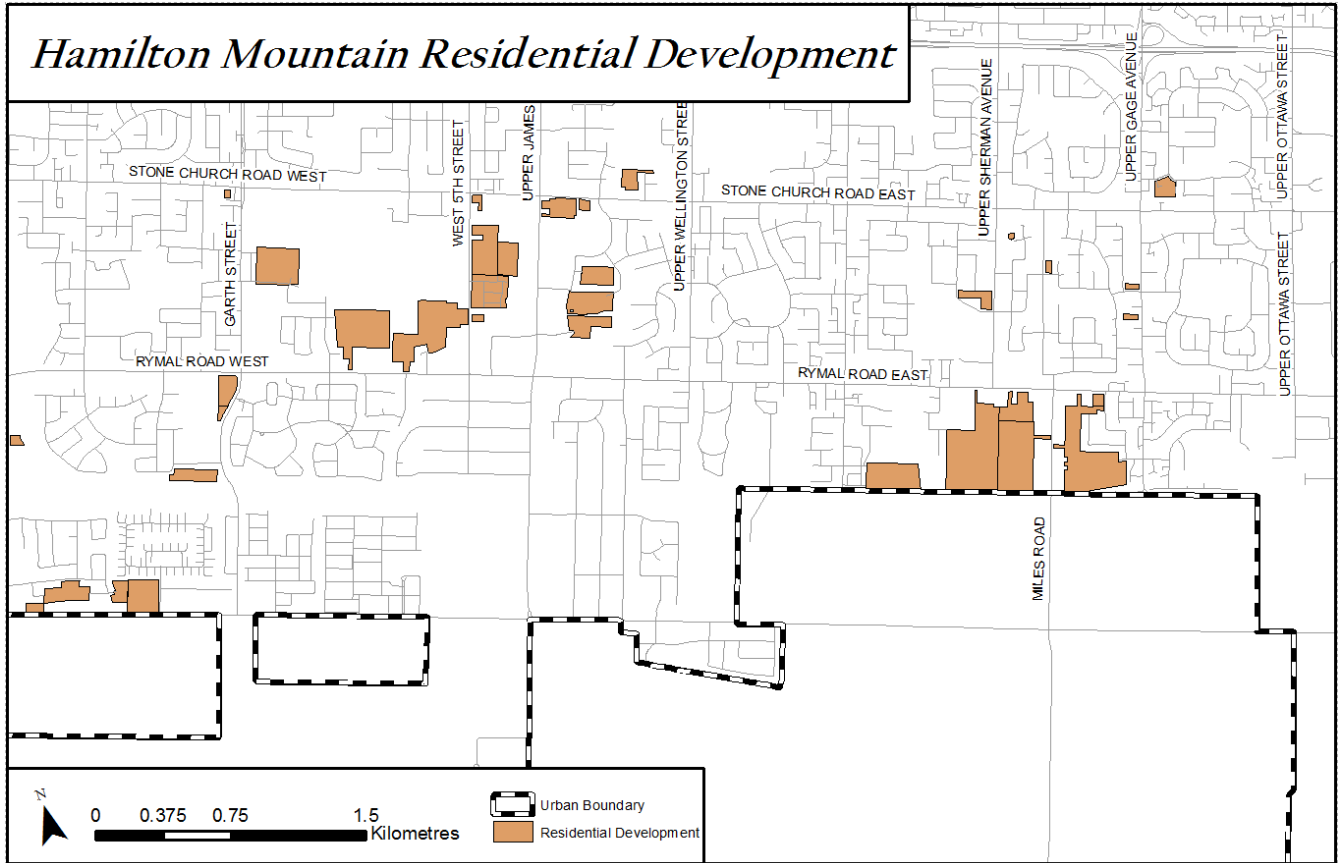
Section 4: Residential Development



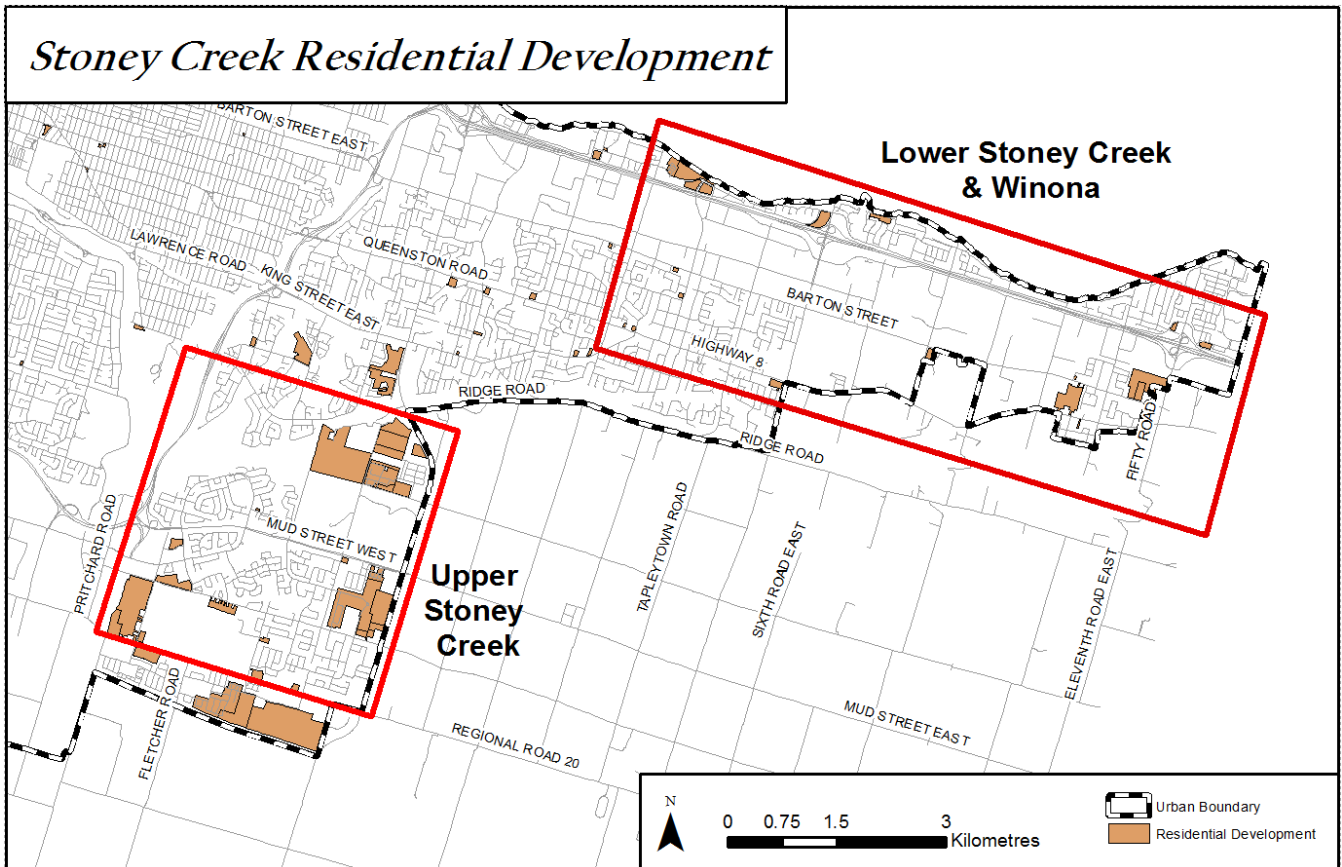
Section 4: Residential Development



Section 4: Residential Development



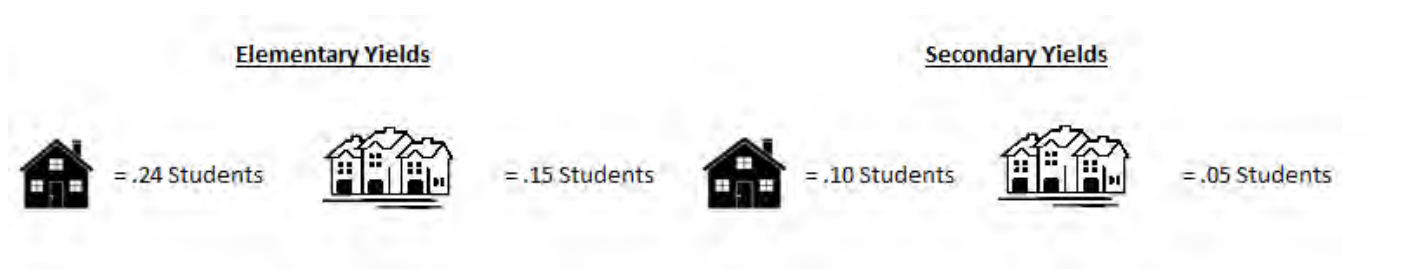
Section 4: Residential Development



Student Yields

HWDSB’s student yield analysis for projected new residential development provides the actual student yields for a specified geography using the housing data from the Municipal Property Assessment Corporation (MPAC) and the Board’s student data. The MPAC and student data are both geocoded (digitally referenced on a map) which allows for matching to be done on each individual property to determine the units that have HWDSB students. From this, yield factors are calculated based on dwelling types (single family homes, semidetached, townhomes, and apartments) to determine and become comprised within projected student enrolments.

Residential development yields will vary based on community and are calculated accordingly. The following graphic illustrates the current Board- wide average student yields for elementary and secondary – they represent a single-family yield and a townhome yield. As per the current Board-wide yield, 4 new single family homes would yield 1 HWDSB elementary aged student (.24 x 4) and approximately 6.5 townhome units for 1 student (6.6 x .15).



Student Apportionment

HWDSB’s apportionment of students compared to our co-terminus Board is illustrated in the table below by elementary and secondary panel. HWDSB’s elementary apportionment has been steady at approximately 65% - secondary approximately 61%. The secondary panel has declined slightly by 2.5% since 2011. Both Boards have been experiencing decline in the elementary panel for the past 5 years.

Elementary Apportionment						Secondary Apportionment					
HWDSB Elementary Students						HWDSB Secondary Students					
2011/2012	2012/13	2013/14	2014/2015	2015/2016	Avg	2011/2012	2012/13	2013/14	2014/2015	2015/2016	Avg
31,113	30,885	31,013	34,336	34,202	32,310	16,715	16,289	15,535	14,801	14,355	15,539
64.8%	64.7%	64.8%	64.7%	64.8%	65%	62.0%	61.6%	61.2%	60.3%	59.5%	61%
HWDCSB Elementary Students						HWDCSB Secondary Students					
2011/2012	2012/13	2013/14	2014/2015	2015/2016	Avg	2011/2012	2012/13	2013/14	2014/2015	2015/2016	Avg
16,878	16,876	16,846	18,699	18,558	17,571	10,245	10,172	9,842	9,763	9,759	9,956
35.17%	35.33%	35.20%	35.26%	35.17%	35%	38.00%	38.44%	38.78%	39.75%	40.47%	39%

Source: Ministry of Education, School Board Funding for the 2016-2017 School Year. Enrolment is ADE

Section 5: Enrolment Trends and Projections**Enrolment Projection Methodology**

The enrolment projection calculations are comprised of two main components - the historic school community and students generated by new residential development. Enrolment projection software (Paradigm STGI - SPS Plus) allows staff to analyze historical enrolment trends, examine yield rates (by dwelling type) of residential development and factor in this information when projecting enrolments. The software analyzes and summarizes the grade by grade, year by year, progression of student. Each school and community exhibits different trends or movements which are used to create retention rates for each grade at each school. The retention rates capture any gains or losses in enrolment that a school may experience as students move from one grade to another. Retention rate methodology is a common practice in Ontario School Boards.

New residential development forecasts allow planning staff the ability to estimate the number of students generated by new development. Planning staff apply historical student yields (by unit type) to municipally approved development forecasts to project the estimated numbers of students generated by housing units. The yields are broken down by housing types which include single-detached, semi-detached, townhome and apartment. Each community has its own unique yield. Historical yields are determined using Municipal Property Assessment Corporation (MPAC) data and historical student data. The MPAC data indicates the count and unit type of homes in the community and staff then compare the number of existing students living in the houses. By comparing the two sets of data, a student yield for new residential homes can be determined and applied to the residential forecast.

Student enrolments are revised annually to reflect current actual student counts, and calculation variables are re-examined for adjustments that may be required. Any approved Board decision such as school closures, program or boundary changes are annually revised and incorporated into the student enrolment projections. There are several other school specific assumptions captured in the projections as well. These assumptions can include programming (i.e. French Immersion), Board policy (i.e. Out of Catchment) or Ministry initiatives (i.e. full-day kindergarten).

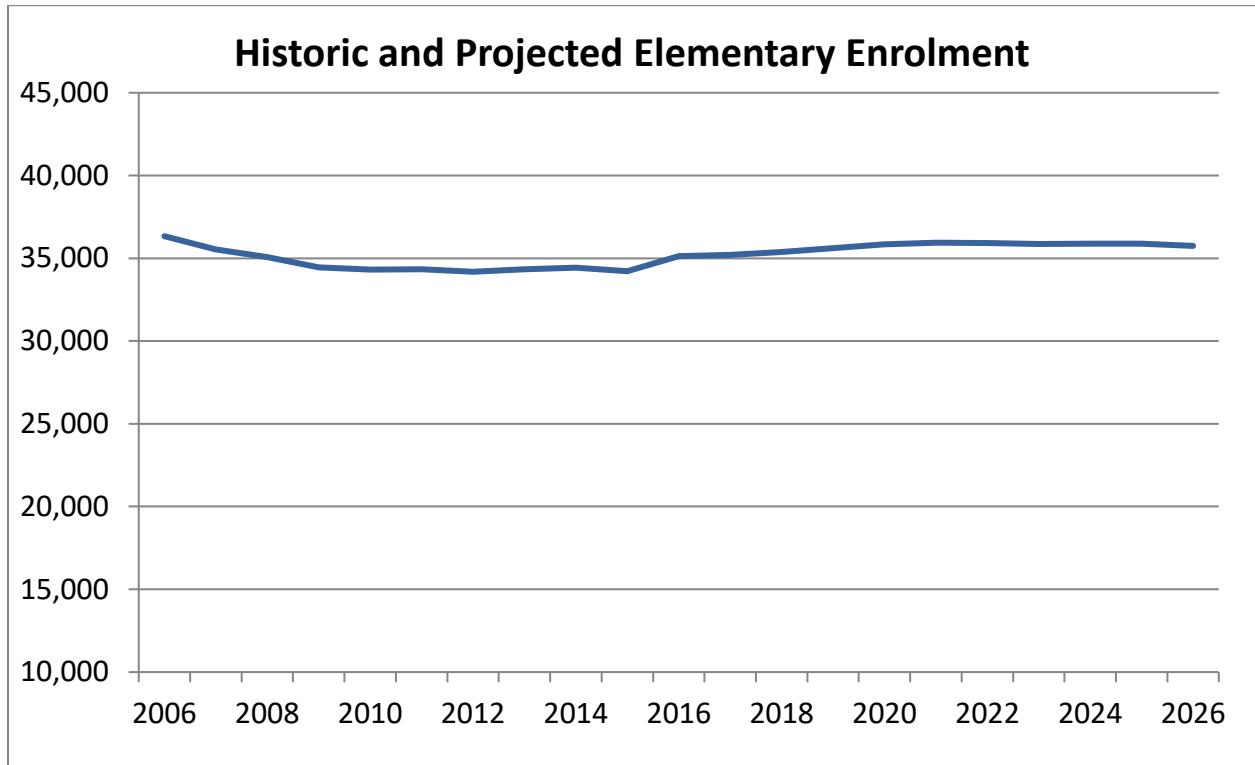
Enrolments projections are compared against historical enrolments, population forecasts, Census and birth data to validate that population information is trending in a similar manner.

Enrolment projections can be created for a variety of time frames; one year, five year or 10 year projections are typical time frames used by the Planning, Accommodation & Rentals Division. An added feature of the projection software also allows staff to create scenarios during accommodation and/or boundary reviews to show the effect of school closures or boundary changes on student enrolment.

Section 5: Enrolment Trends and Projections

Elementary

The following graph illustrates the elementary historical and projected enrolment of Hamilton-Wentworth District School Board from 2006 to 2026. Current and projected enrolments are as of October 31st, 2016.

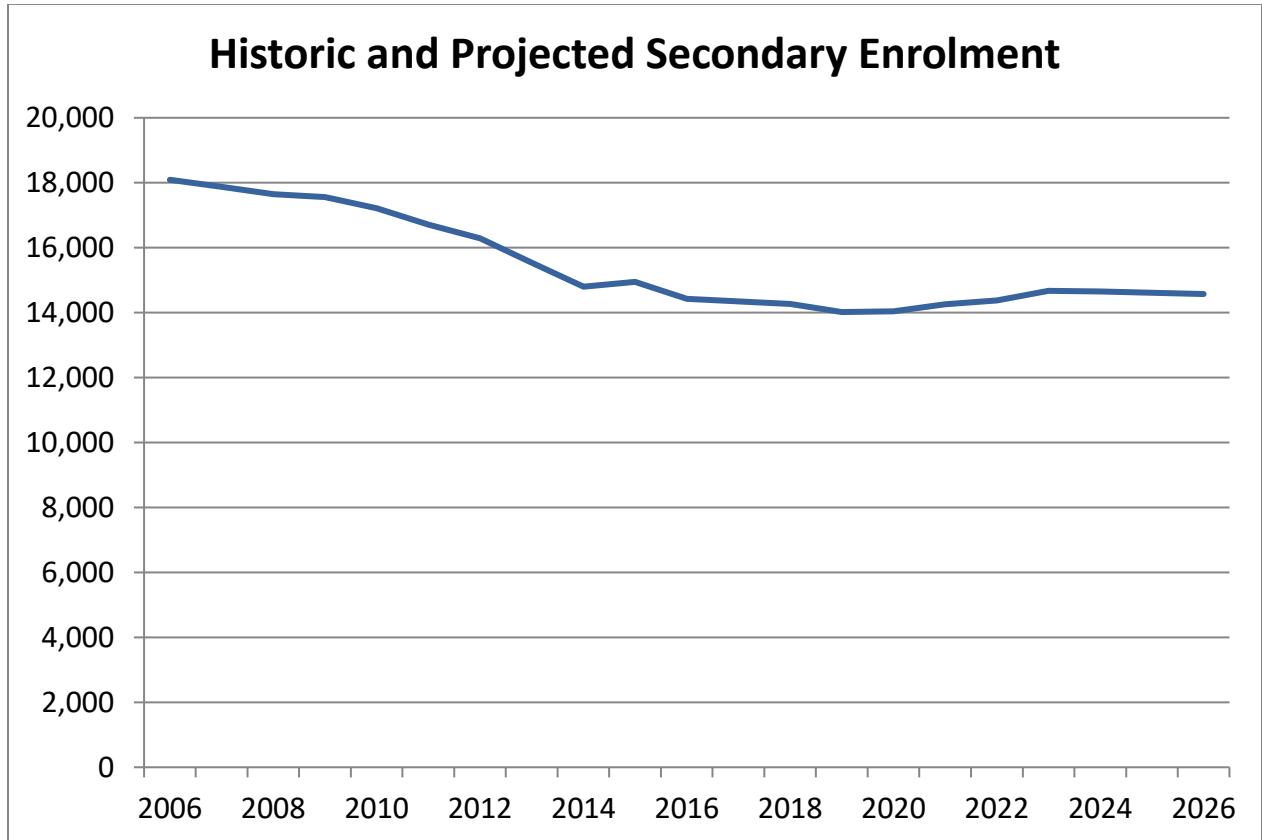


From 2006 to 2012 HWDSB’s elementary enrolment rapidly declined from approximately 36,000 to 34,000. This decline was not only in Hamilton but was experienced everywhere across Ontario. Currently in 2016, elementary enrolment is approximately 35,100 students which is an increase from 2014 and 2015. HWDSB’s elementary enrolment total is projected to remain stable over the next 10 years. Although the total enrolment is project to remain stable, individual school enrolments will fluctuate based on neighbourhood demographics or new residential development.

Section 5: Enrolment Trends and Projections

Secondary

The following graph demonstrates the secondary historic and projected average daily (ADE) enrolment of the Hamilton-Wentworth District School Board from 2006 to 2026. Current and projected enrolments are as of October 31st, 2016.



Since 2006, HWDSB secondary enrolment has decreased from over 18,000 students to approximately 14,400 students in 2016. Much like the elementary enrolment, the decline in enrolment is expected to stabilize within the next 5 years and can be expected to remain near 14,000 – 14,500 students. The stabilization of secondary enrolment can largely be attributed to the recent more consistent elementary enrolment.

Section 6: Guiding Principles

To ensure that Hamilton-Wentworth District School Board (HWDSB) provides equitable, affordable and sustainable learning facilities, the following LTFMP Guiding Principles have been created. These principles guide and assist in creating the framework for determining the viability of our schools, which is a key component in the development and implementation of the Long-Term Facilities Master Plan.

The following guiding principles are consistent with the commitment to provide quality teaching and learning environments that are driven by the needs of students and programs:

1. HWDSB is committed to providing and maintaining quality learning and teaching environments that support student achievement (HWDSB Strategic Directions, Annual Operating Plan 2011-12)
2. Optimal utilization rates of school facilities is in the range of 90- 110%
3. Facilities reflect the program strategy that all students need personalized learning, pathways, schools with specialization and cluster and community support (*Learning for All: HWDSB Program Strategy*)
4. The scheduled length of time on a vehicle provided through HWSTS shall not exceed 60 minutes one way. (*Transportation Policy, 2014*)
5. School facilities meet the needs of each of our students in the 21st century (*Education in HWDSB, 2011*)
6. Accessibility will be considered in facility planning and accommodation (*Accessibility (Barrier-Free) "Pathways" Policy, 1999*)
7. School facilities provide neighbourhood and community access that supports the well-being of students and their families (*A Guide to Educational Partnerships, 2009*)
8. School facilities have flexible learning environments including adaptive and flexible use of spaces; student voice is reflected in where, when and how learning occurs (*Education in HWDSB, 2012*)
9. Specific principles related to elementary and secondary panels:

Elementary

- a. *School Capacity* - optimal school capacity would be 500 to 600 students, which creates two to three classes for each grade
- b. *School Grade/Organization* –Kindergarten to-Grade 8 facilities
- c. *School Site Size* - optimal elementary school site size would be approximately 6 acres
- d. *French Immersion* - In dual track schools a balance between French Immersion and English track students is ideal for balanced program delivery

Secondary

- a. *School Capacity* - optimal school capacity would be 1000 to 1250 students
- b. *School Site Size* - ideal secondary school site size would be approximately 15 acres, including a field, parking lot and building

(NOTE: Not meeting the aspects of the program specific principles above (#9), does not preclude that a school has been pre-determined for automatic closure or other accommodation strategies. The principles are intended to be guides).

School	Eng Grade	FI Grade	OTG	Portables	2016 Enrol (Util)	2021 Enrol (Util)	2026 Enrol (Util)
Cootes Paradise	JK-5	1-5	678	0	605 (89%)	579 (85%)	587 (87%)
Dalewood	6-8	6-8	370	0	275 (74%)	253 (68%)	222 (60%)
Prince Philip	JK-5	-	0	0	0 (%)	0 (%)	0 (%)
			1048	0	880 (84%)	832 (79%)	809 (77%)

Glenwood	SE	-	99	0	41 (41%)	41 (41%)	41 (41%)
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Observations

Accommodation review completed February 2012.

Prince Philip closed in June 2014.

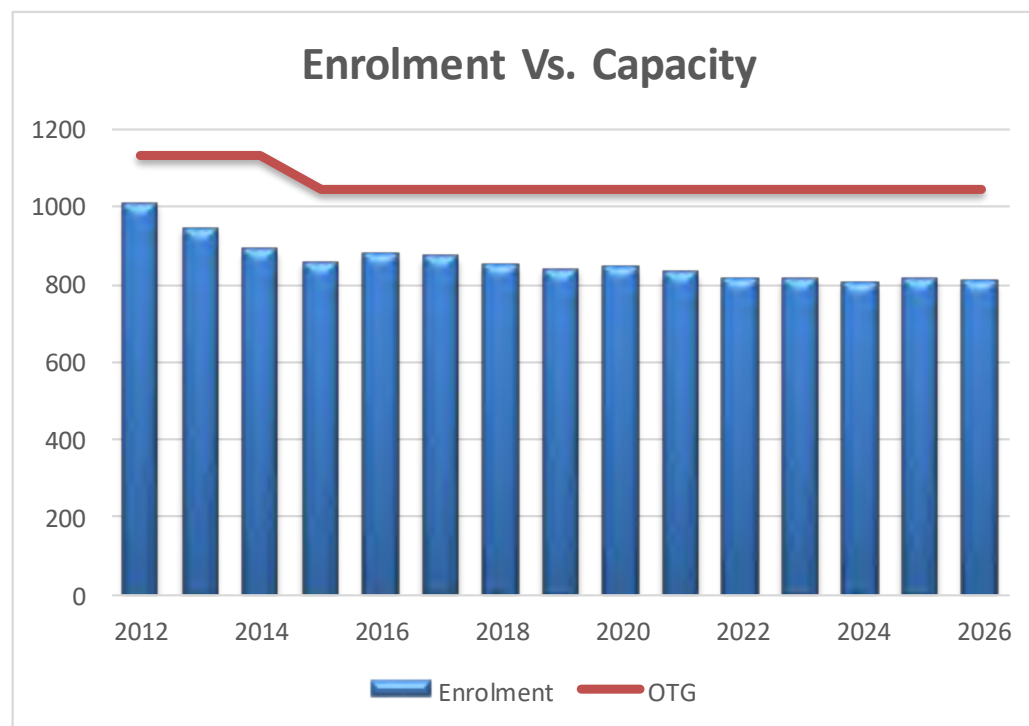
Addition and facility upgrades at Cootes Paradise completed September 2014.

Dalewood facility upgrades completed 2016.

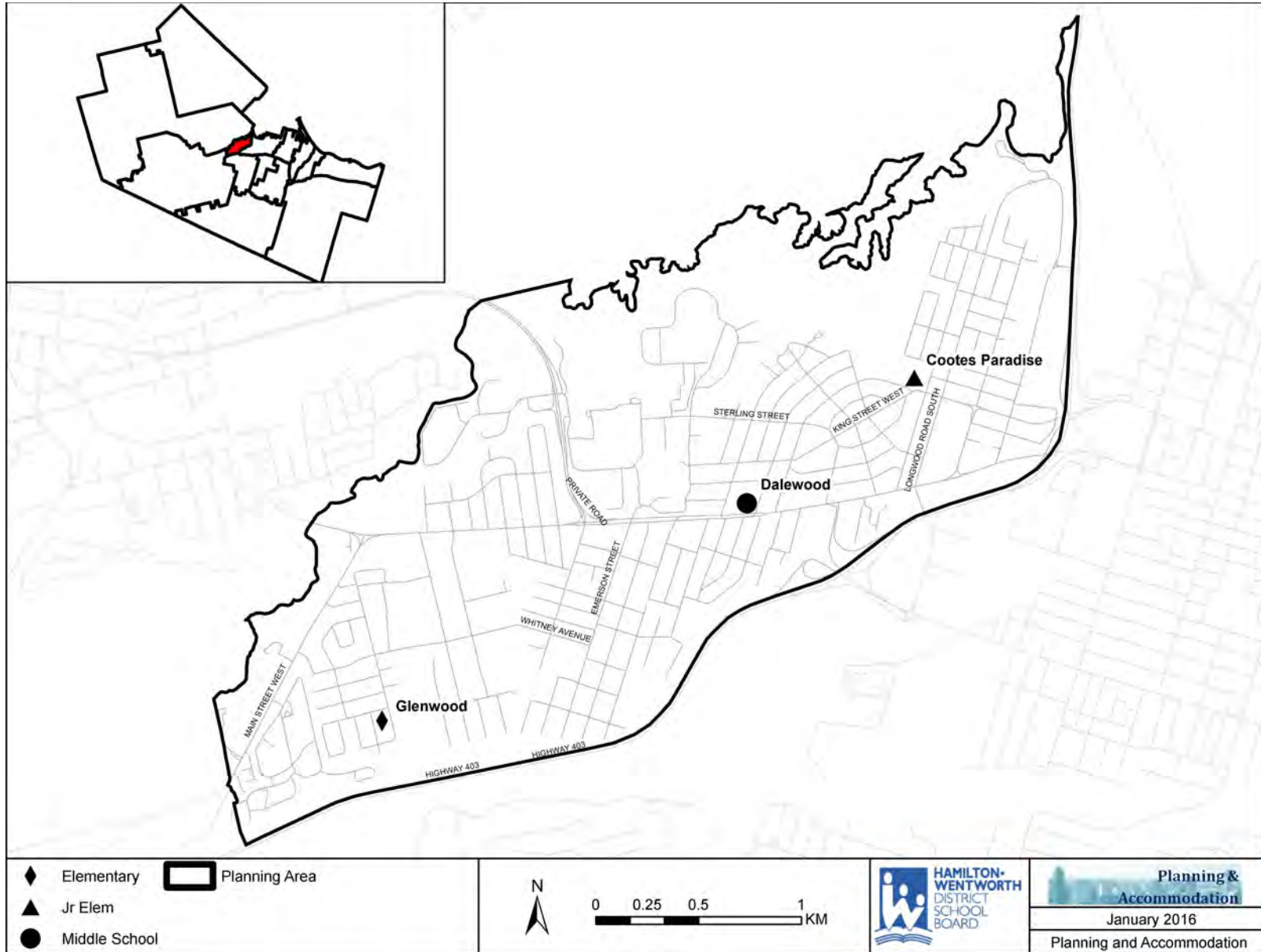
Glenwood is a special education school and due to its unique use is not included in the enrolment vs capacity chart.

Next Steps

Continue to monitor enrolment and accommodation.



2016 enrolment as of October 31, 2016.



School	Eng Grade	FI Grade	OTG	Portables	2016 Enrol (Util)	2021 Enrol (Util)	2026 Enrol (Util)
Allan A. Greenleaf	JK-8	-	548	0	493 (90%)	554 (101%)	534 (97%)
Balaclava	JK-8	-	381	0	380 (100%)	376 (99%)	370 (97%)
Flamborough Centre	JK-8	6-8 (2020)	243	6	257 (106%)	283 (116%)	369 (152%)
Guy B. Brown	JK-8	1-8	632	3	683 (108%)	627 (99%)	599 (95%)
Mary Hopkins	JK-5	1-3 (2017)	401	0	338 (84%)	500 (125%)	616 (154%)
Millgrove	JK-5	-	234	0	186 (79%)	173 (74%)	168 (72%)
			2439	9	2337 (96%)	2513 (103%)	2656 (109%)

Observations

Projections indicate increasing enrolment in the Flamborough planning area due to residential development.

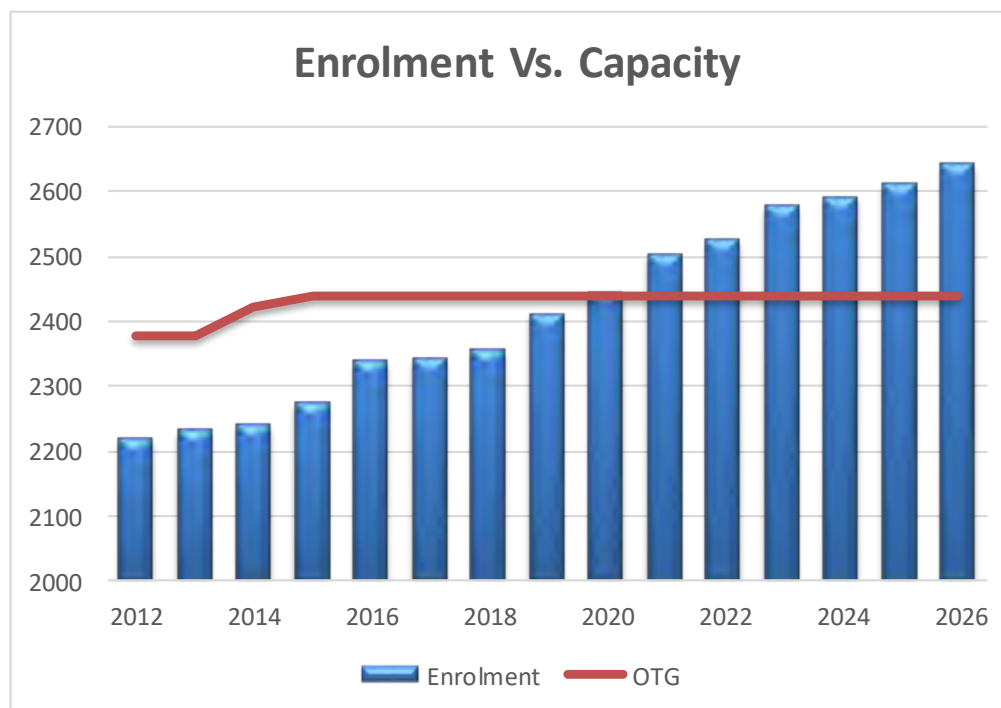
Millgrove included in West Flamborough accommodation review completed June 2014.

Grade 1-3 FI program at Mary Hopkins approved for 2017

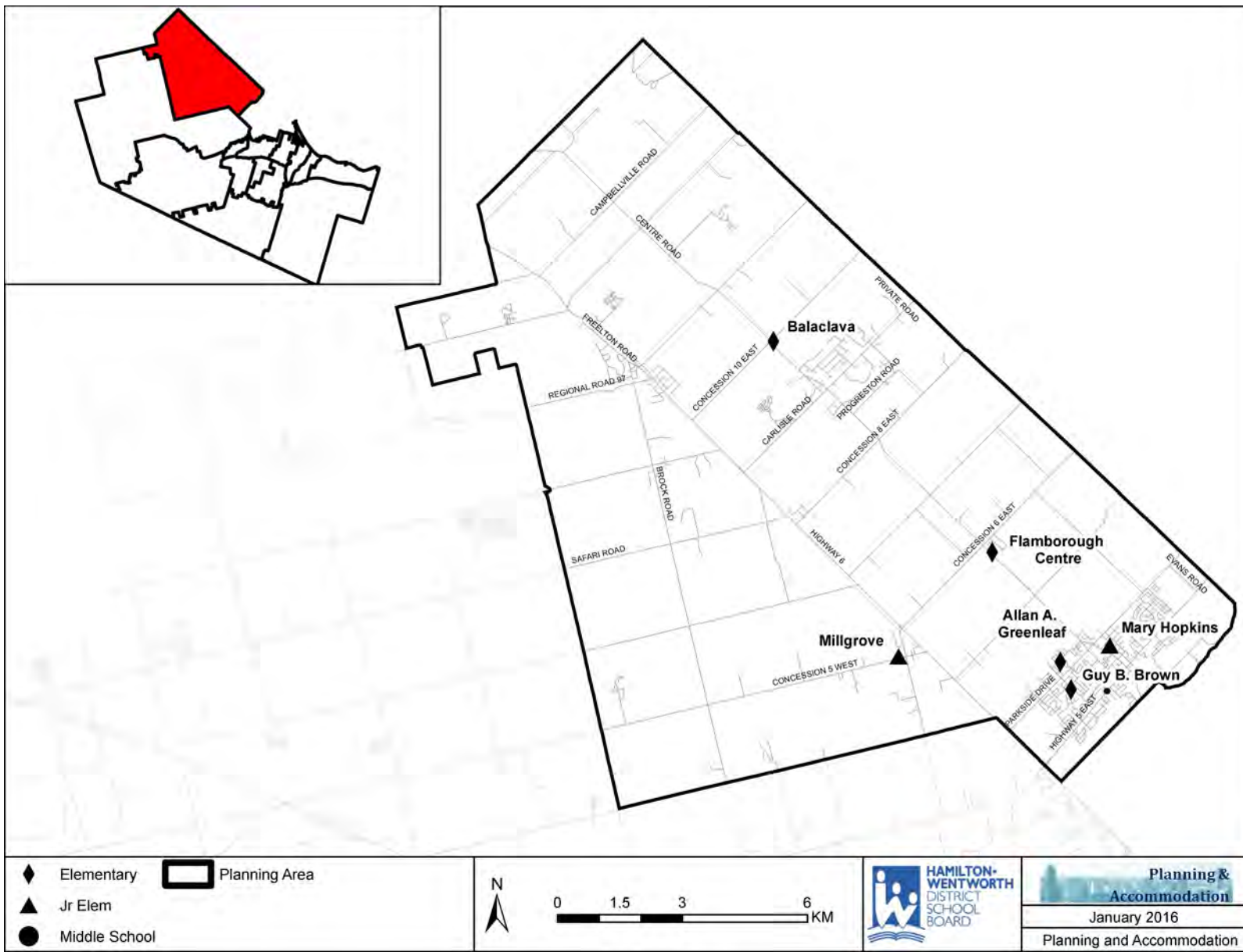
Grade 6-8 FI at program Flamborough Centre approved for 2020

Next Steps

Land Purchase in Waterdown South for new elementary school anticipated in 2018.



2016 enrolment as of October 31, 2016.



School	Eng Grade	FI Grade	OTG	Portables	2016 Enrol (Util)	2021 Enrol (Util)	2026 Enrol (Util)
Franklin Road	JK-8	-	444	2	497 (112%)	555 (125%)	510 (115%)
George L. Armstrong	JK-8	-	577	0	493 (85%)	513 (89%)	548 (95%)
Norwood Park	-	1-8	464	3	486 (105%)	498 (107%)	454 (98%)
Pauline Johnson	JK-8	-	426	0	424 (100%)	351 (82%)	305 (72%)
Queensdale	JK-8	-	317	0	335 (106%)	361 (114%)	336 (106%)
Ridgemount	Jk-8	-	447	10	419 (94%)	514 (115%)	521 (117%)
			2675	15	2654 (99%)	2792 (104%)	2674 (100%)

Observations

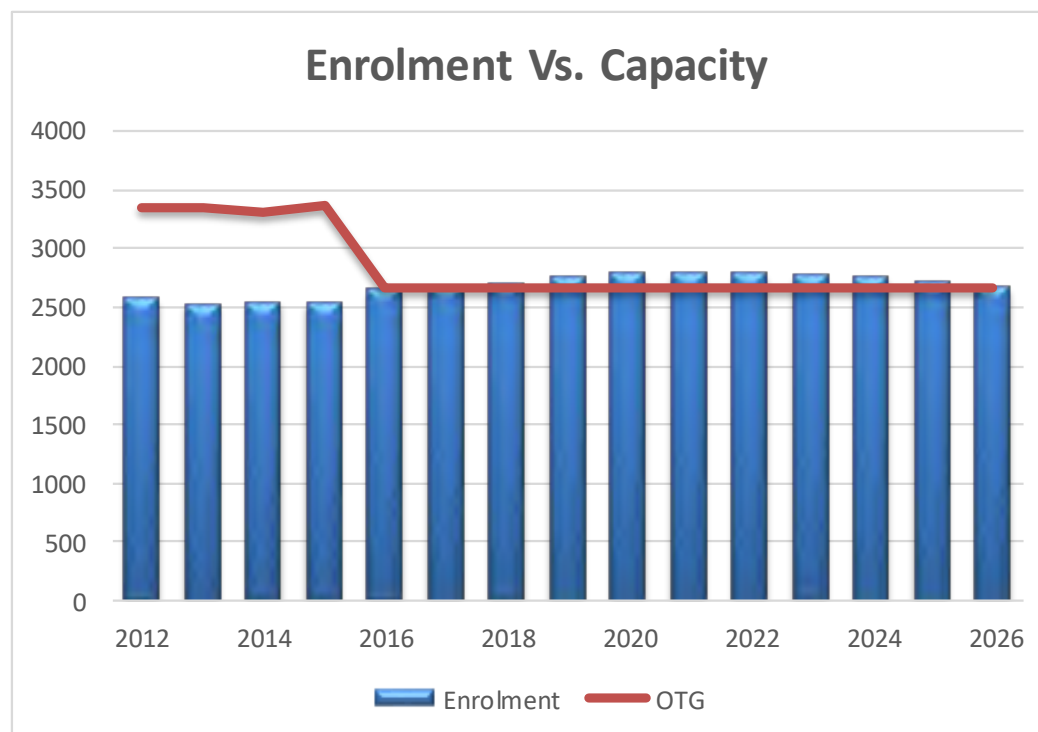
Accommodation review complete June 2014. Cardinal Heights, Eastmount Park and Linden Park closed in June 2015.

Renovations and additions completed at G.L. Armstrong, Pauline Johnson, Queensdale and Ridgemount as of May 2016.

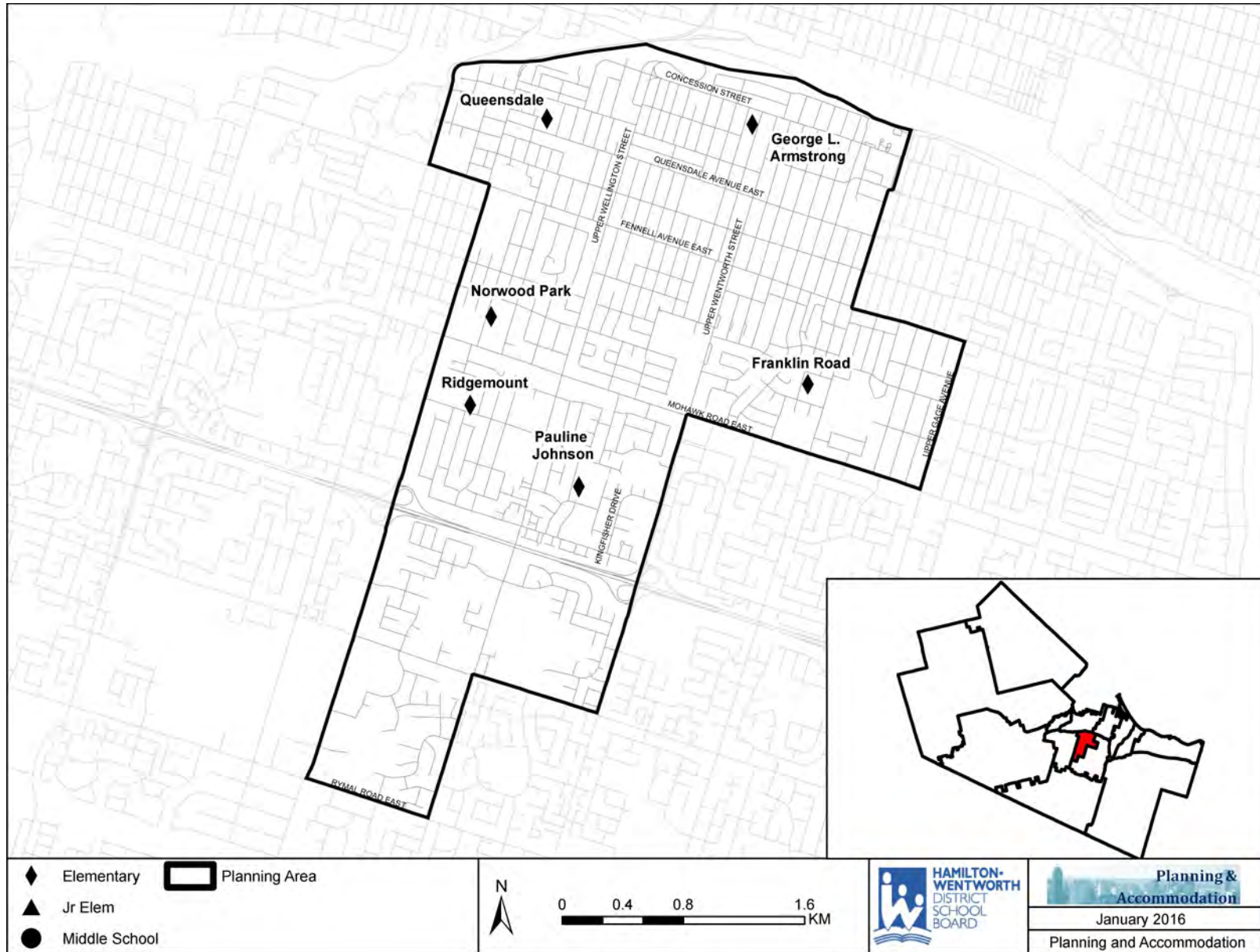
Next Steps

In the process of completing renovations, addition and child care addition to Franklin Road.

Continue to monitor enrolment and accommodation.



2016 enrolment as of October 31, 2016.



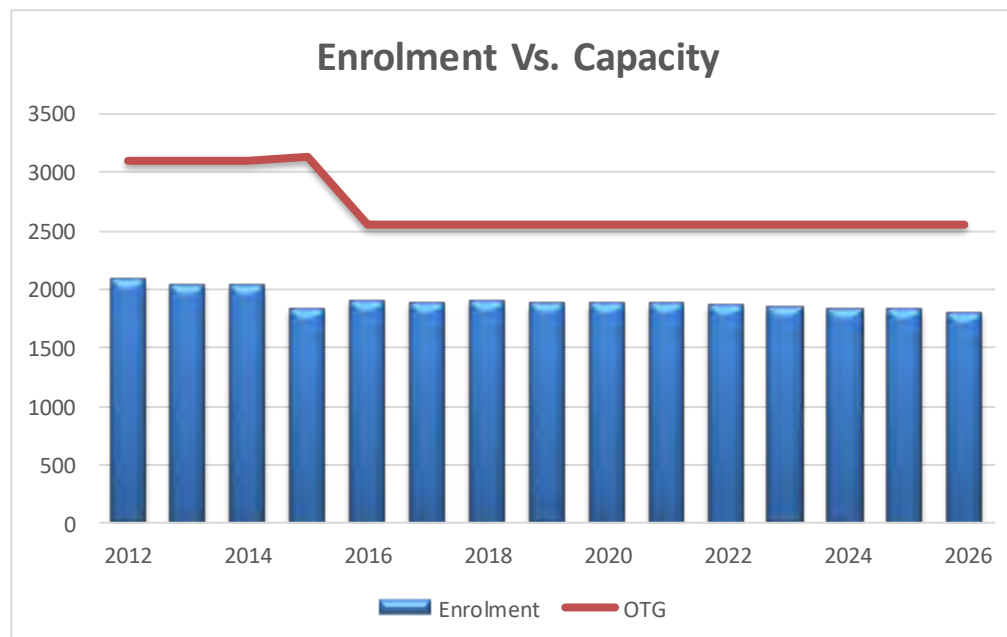
School	Eng Grade	FI Grade	OTG	Portables	2016 Enrol (Util)	2021 Enrol (Util)	2026 Enrol (Util)
Hillcrest	JK-8	-	764	0	557 (73%)	473 (62%)	462 (60%)
Parkdale	JK-5	-	291	0	212 (73%)	243 (84%)	226 (78%)
Rosedale	JK-5	-	257	0	165 (64%)	164 (64%)	159 (62%)
Viscount Montgomery	JK-8	-	444	0	402 (91%)	355 (80%)	312 (70%)
W.H. Ballard	JK-8	-	807	0	567 (70%)	638 (79%)	641 (79%)
			2563	0	1903 (74%)	1873 (73%)	1800 (70%)

Observations

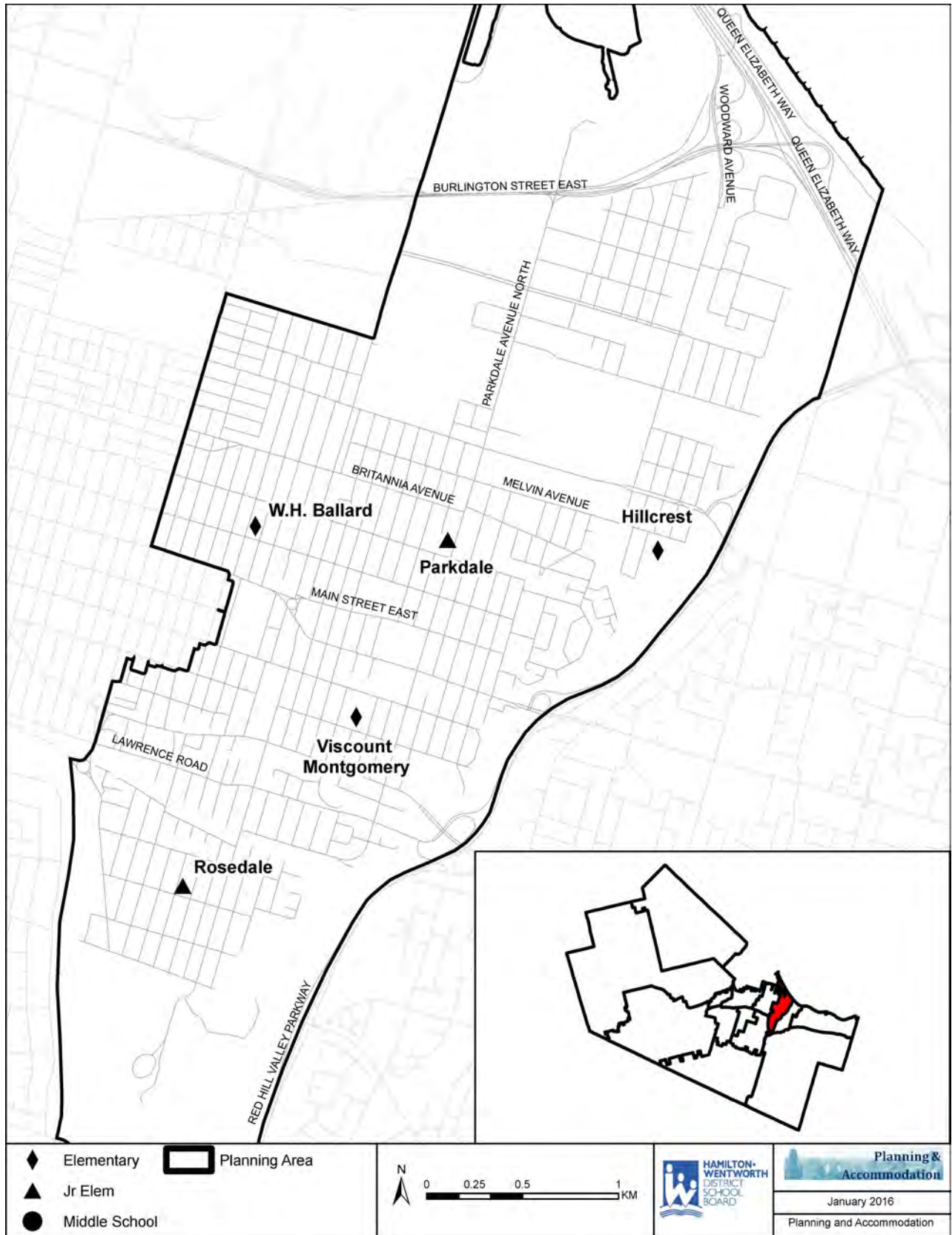
Accommodation review completed June 2014.
 Closure of Roxborough Park and Woodward June 2015
 FDK renovations completed at Hillcrest, Viscount Montgomery and W.H. Ballard to accommodate consolidated schools.

Next Steps

Continue to monitor enrolment and accommodation.
 Explore program opportunities to use excess pupil places.



2016 enrolment as of October 31, 2016.



School	Eng Grade	FI Grade	OTG	Portables	2016 Enrol (Util)	2021 Enrol (Util)	2026 Enrol (Util)
Bennetto	JK-8	-	744	0	492 (66%)	441 (59%)	412 (55%)
Cathy Wever	JK-8	-	786	0	725 (92%)	682 (87%)	629 (80%)
Central	JK-5	-	283	2	306 (108%)	320 (113%)	302 (107%)
Dr. J. Edgar Davey	JK-8	-	816	0	509 (62%)	445 (55%)	410 (50%)
Earl Kitchener	JK-5	1-5	548	0	564 (103%)	530 (97%)	526 (96%)
Hess Street	JK-8	-	450	0	352 (78%)	353 (78%)	358 (80%)
Queen Victoria	JK-8	-	758	0	557 (73%)	580 (77%)	572 (75%)
Ryerson	6-8	6-8	343	4	410 (120%)	429 (125%)	409 (119%)
Strathcona	JK-5	-	245	0	193 (79%)	189 (77%)	185 (76%)
			4973	6	4108 (83%)	3969 (80%)	3803 (76%)

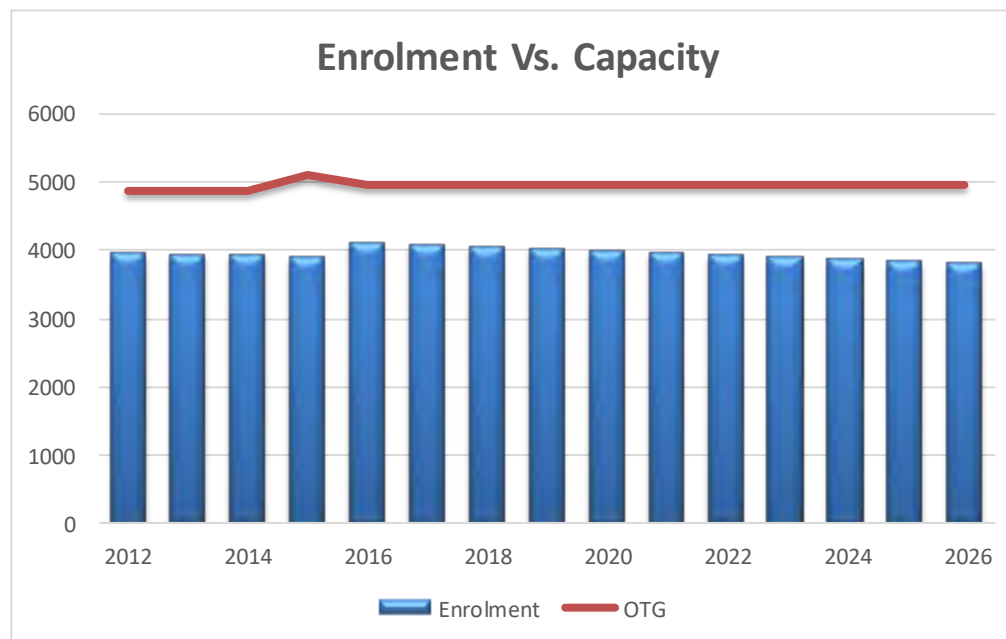
Observations

Accommodation Review to be completed in June 2017.

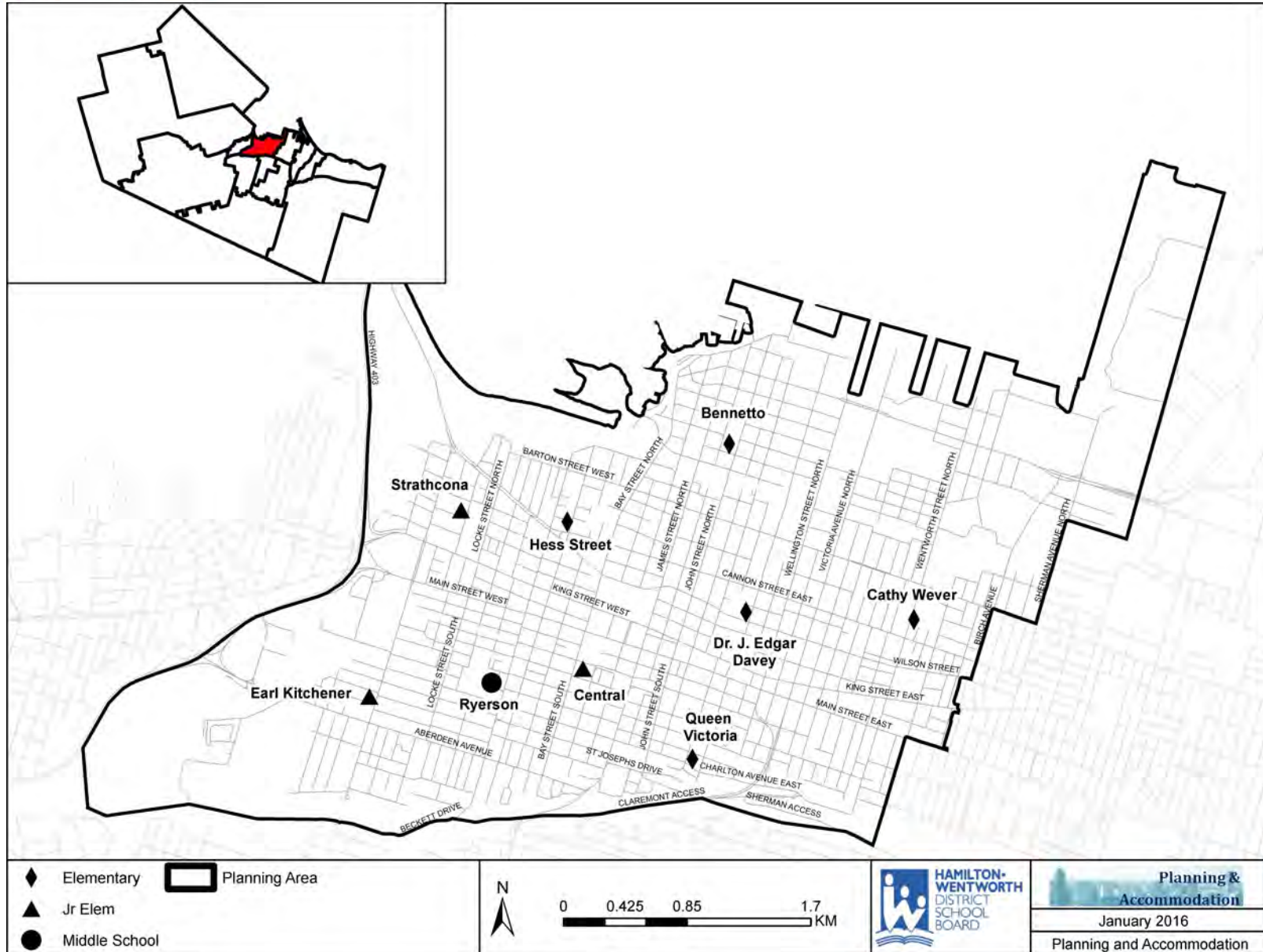
Next Steps

Approval of accommodation strategy by Trustees in Spring 2017.

Application to the Ministry of Education through capital priorities/school consolidated capital to address approved accommodation strategy.



2016 enrolment as of October 31, 2016.



School	Eng Grade	FI Grade	OTG	Portables	2016 Enrol (Util)	2021 Enrol (Util)	2026 Enrol (Util)
Mount Hope	JK-8	-	363	2	379 (104%)	448 (123%)	523 (144%)

Observations

Accommodation review complete May 2014.

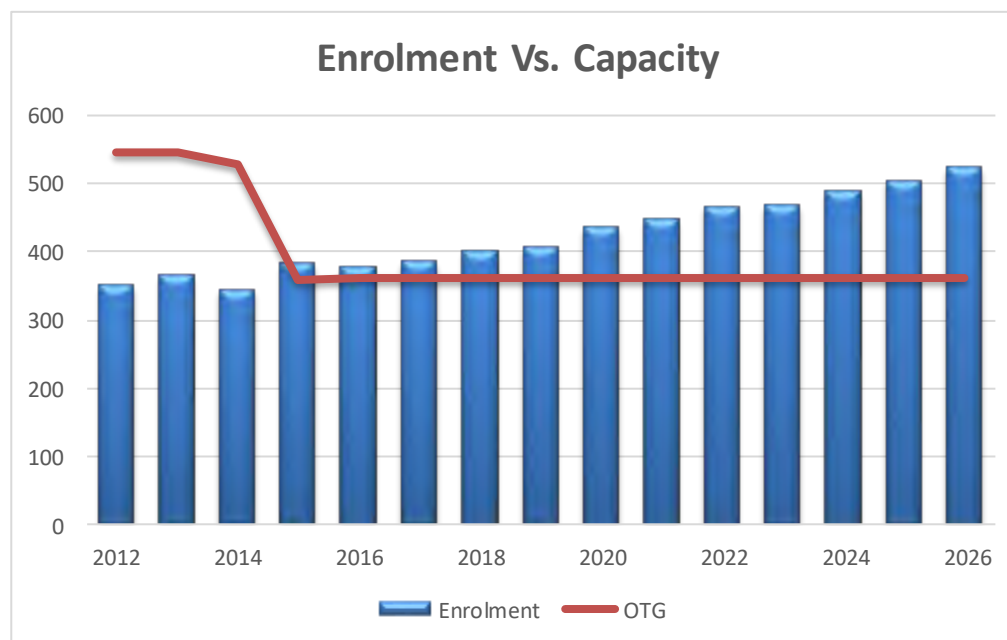
Bell-Stone Closed June 2014

FDK renovation, new window installation and student bathroom updates completed.

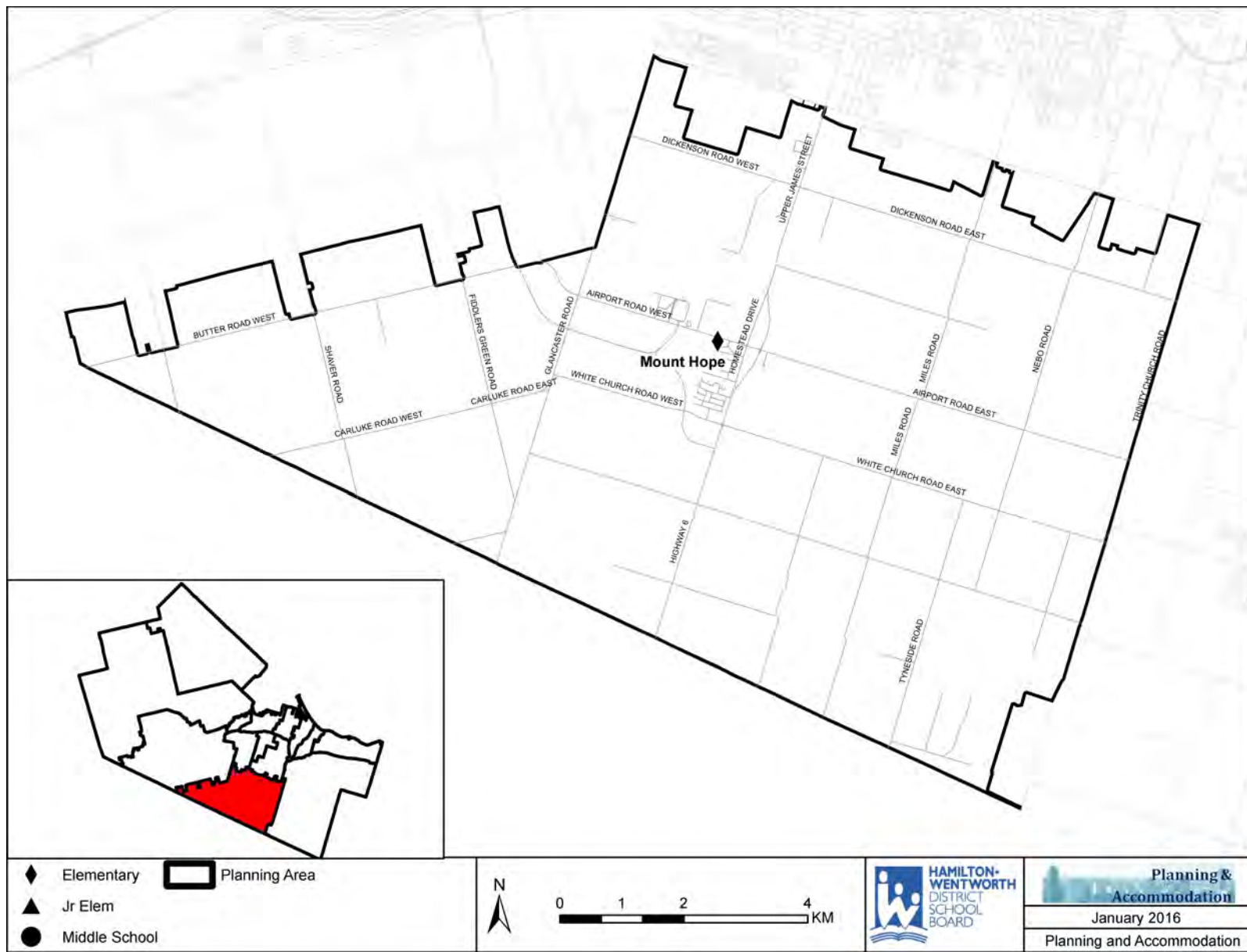
Phase 2 of construction including gym expansion, accessibility improvements (elevator) and classroom addition will be completed in the 2016/2017 school year.

Next Steps

Continue to monitor the residential development in Mount Hope and ensure appropriate accommodations for growth.



2016 enrolment as of October 31, 2016.



School	Eng Grade	FI Grade	OTG	Portables	2016 Enrol (Util)	2021 Enrol (Util)	2026 Enrol (Util)
Cecil B. Stirling	JK-8	-	326	6	295 (90%)	272 (83%)	272 (83%)
Helen Detwiler	JK-8	-	456	6	527 (116%)	480 (105%)	465 (102%)
Highview	JK-8	-	511	0	481 (94%)	461 (90%)	462 (90%)
Huntington Park	JK-8	-	453	6	421 (93%)	437 (96%)	439 (97%)
Lawfield	JK-8	1-8	602	5	703 (117%)	654 (109%)	618 (103%)
Lincoln M. Alexander	JK-6	-	326	0	235 (72%)	263 (81%)	265 (81%)
Lisgar	JK-8	-	369	0	302 (82%)	309 (84%)	296 (80%)
Ray Lewis	JK-8	-	628	2	631 (100%)	607 (97%)	608 (97%)
Richard Beasley	JK-5	-	280	0	205 (73%)	183 (65%)	179 (64%)
Templemead	JK-8	-	513	2	580 (113%)	554 (108%)	552 (108%)
			4464	27	4380 (98%)	4220 (95%)	4156 (93%)

Observations

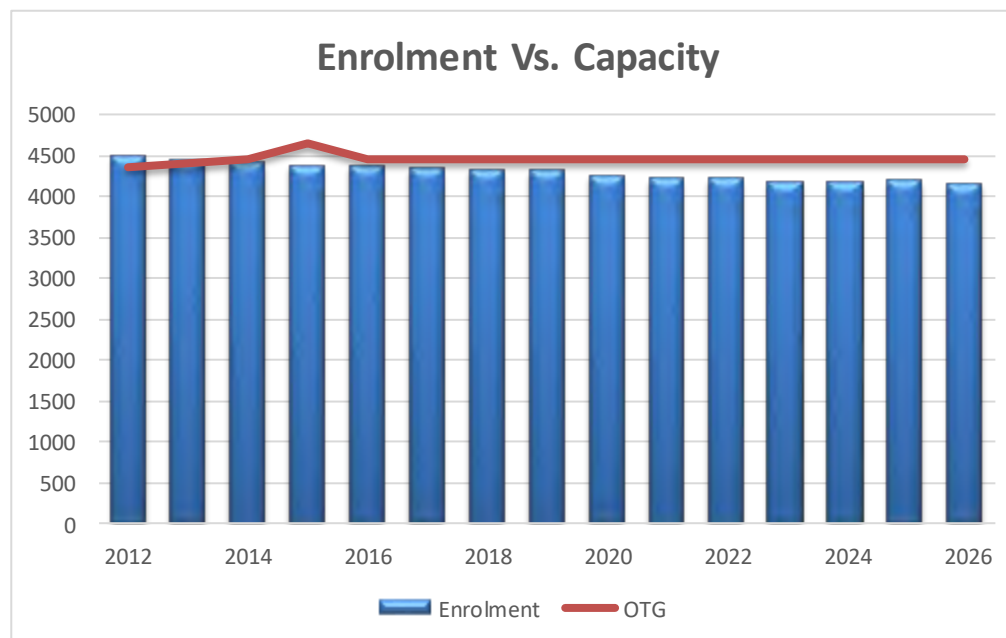
Projections indicate a slightly declining enrolment in the East Mountain planning area.

Imbalance in enrolment between schools.

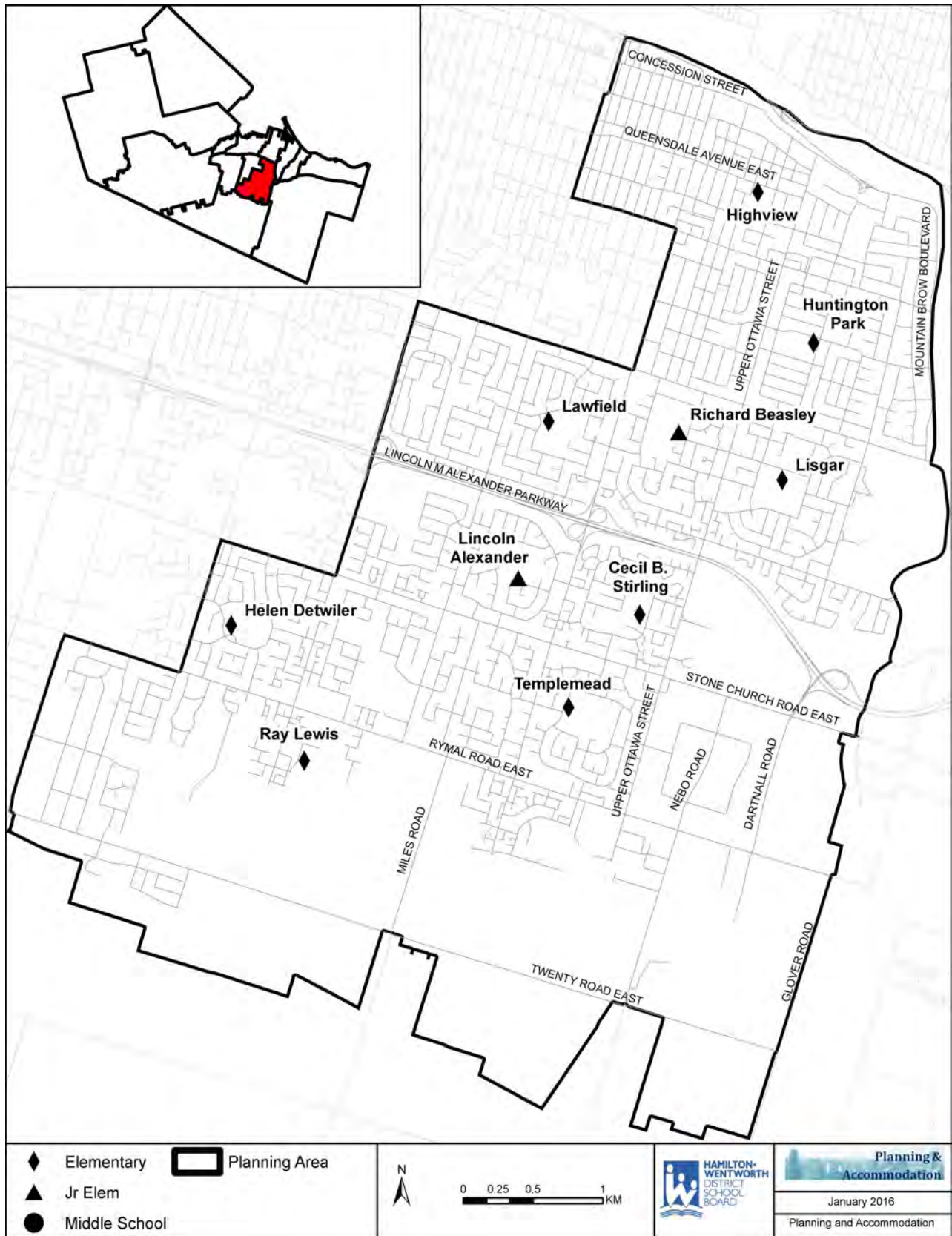
Next Steps

The planning area's accommodation imbalance and underutilization can be resolved through an accommodation review.

Accommodation review suggested for 2019/2020.



2016 enrolment as of October 31, 2016.



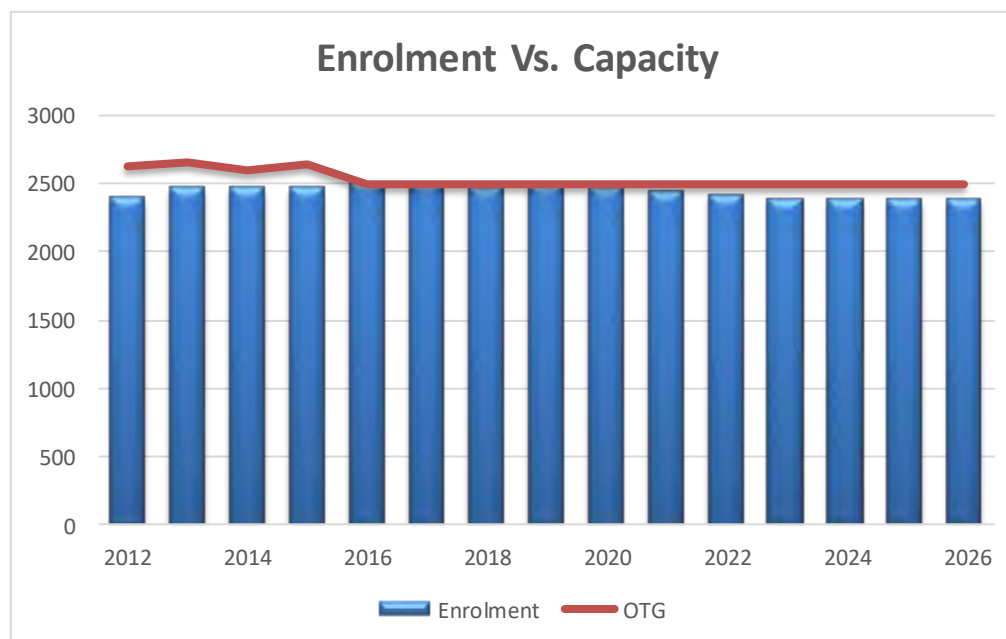
School	Eng Grade	FI Grade	OTG	Portables	2016 Enrol (Util)	2021 Enrol (Util)	2026 Enrol (Util)
Collegiate Avenue	JK-8	-	291	0	278 (96%)	290 (100%)	256 (88%)
Eastdale	JK-8	-	219	0	204 (93%)	210 (96%)	201 (92%)
Green Acres	JK-8	-	389	0	295 (76%)	282 (72%)	299 (77%)
Memorial (Stoney Creek)	JK-8	-	358	1	371 (104%)	341 (95%)	302 (84%)
Mountain View	JK-8	-	231	6	331 (143%)	327 (142%)	336 (145%)
R.L. Hyslop	JK-8	-	254	0	160 (63%)	155 (61%)	153 (60%)
Winona	JK-8	-	761	7	873 (115%)	845 (111%)	834 (110%)
			2503	14	2512 (100%)	2450 (98%)	2381 (95%)

Observations

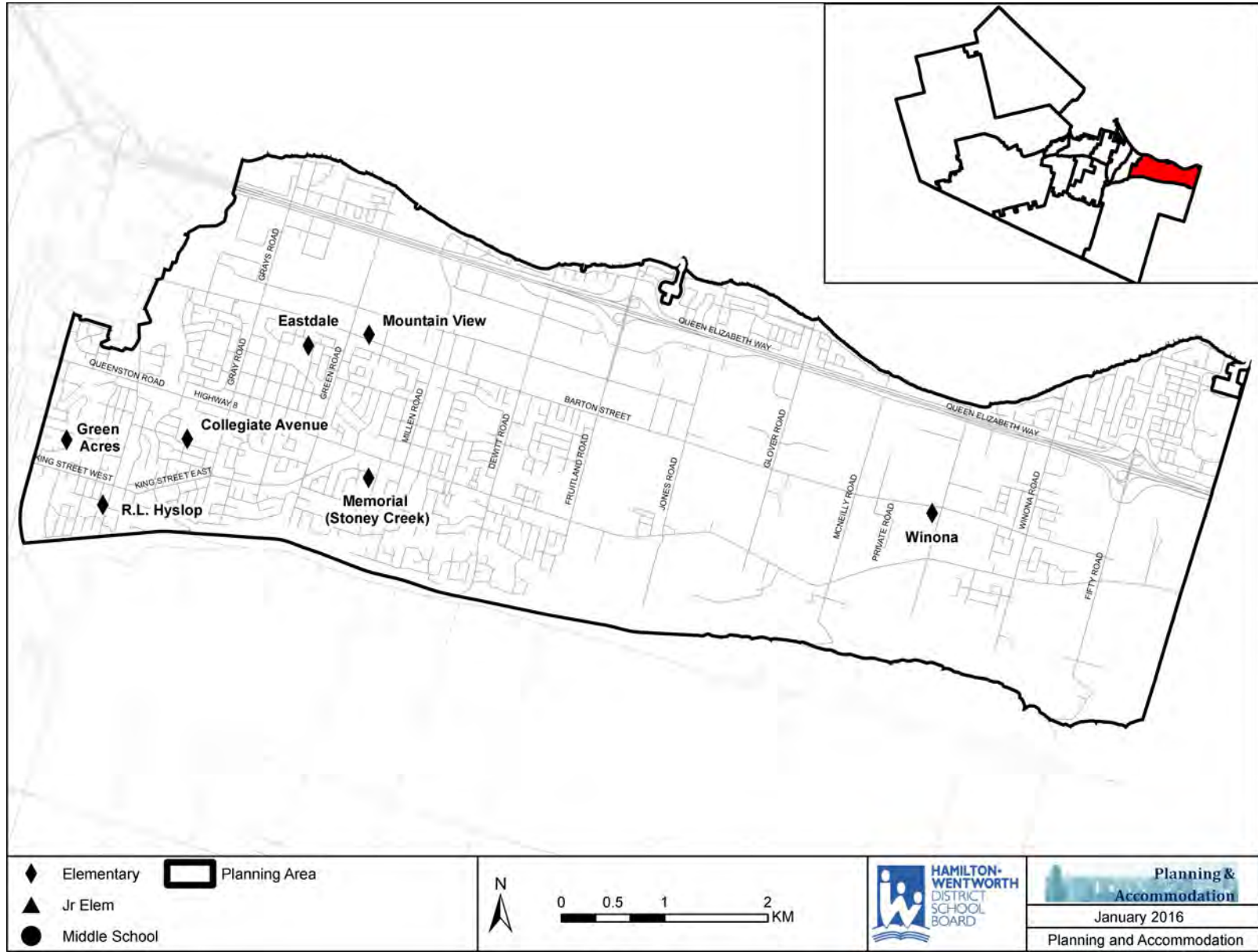
Accommodation review completed in June 2016.
 Funding application for three new elementary schools in July 2016.
 Ministry approved funding for replacement Eastdale School in November 2016.
 Funding application submitted to Ministry of Education for replacement Memorial and Collegiate Avenue.

Next Steps

Transition planning for Eastdale.
 Await funding announcement from Ministry of Education.
 Land purchase in Winona in 2022 for future JK-8 elementary school to relieve accommodation pressure at Winona.



2016 enrolment as of October 31, 2016.



School	Eng Grade	FI Grade	OTG	Portables	2016 Enrol (Util)	2021 Enrol (Util)	2026 Enrol (Util)
Buchanan Park	JK-5	-	245	0	164 (67%)	134 (55%)	136 (56%)
Chedoke	JK-8	-	510	3	574 (113%)	498 (98%)	454 (89%)
Gordon Price	JK-8	-	442	0	397 (90%)	354 (80%)	356 (81%)
Holbrook	JK-6	-	326	0	206 (63%)	235 (72%)	248 (76%)
James Macdonald	JK-5	-	314	0	327 (104%)	469 (149%)	501 (160%)
Mountview	JK-6	-	291	0	224 (77%)	244 (84%)	237 (81%)
R.A. Riddell	JK-8	-	594	3	748 (126%)	778 (131%)	804 (135%)
Westview	6-8	-	343	0	226 (66%)	257 (75%)	276 (80%)
Westwood	JK-5	-	395	0	261 (66%)	285 (72%)	272 (69%)
			3460	6	3127 (90%)	3254 (94%)	3284 (95%)

Observations

Enrolment growth at schools south of the Lincoln Alexander Parkway due to residential development.

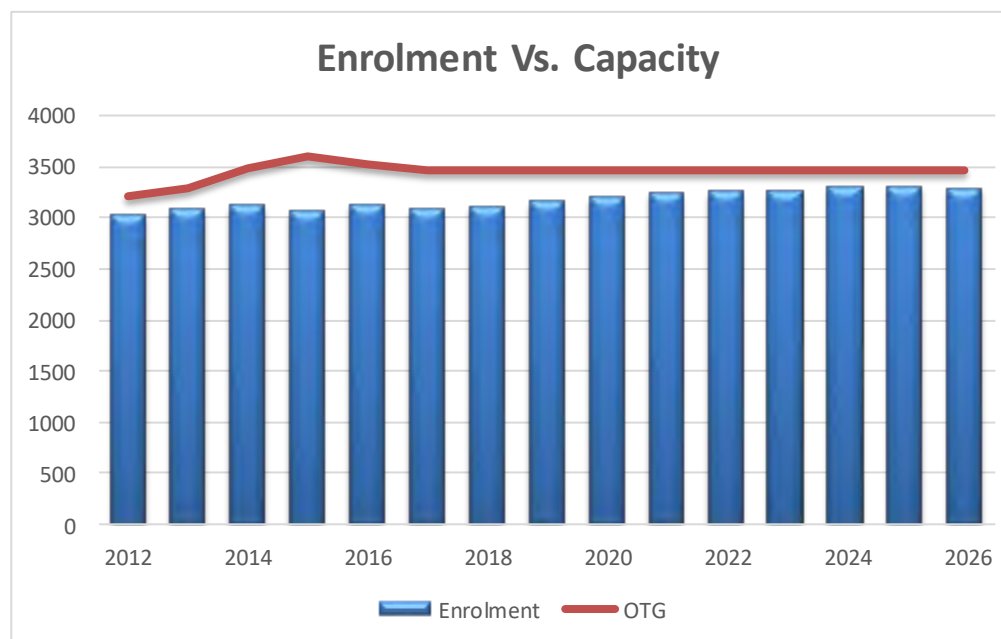
Enrolment imbalance within schools but good overall utilization of facilities.

Next Steps

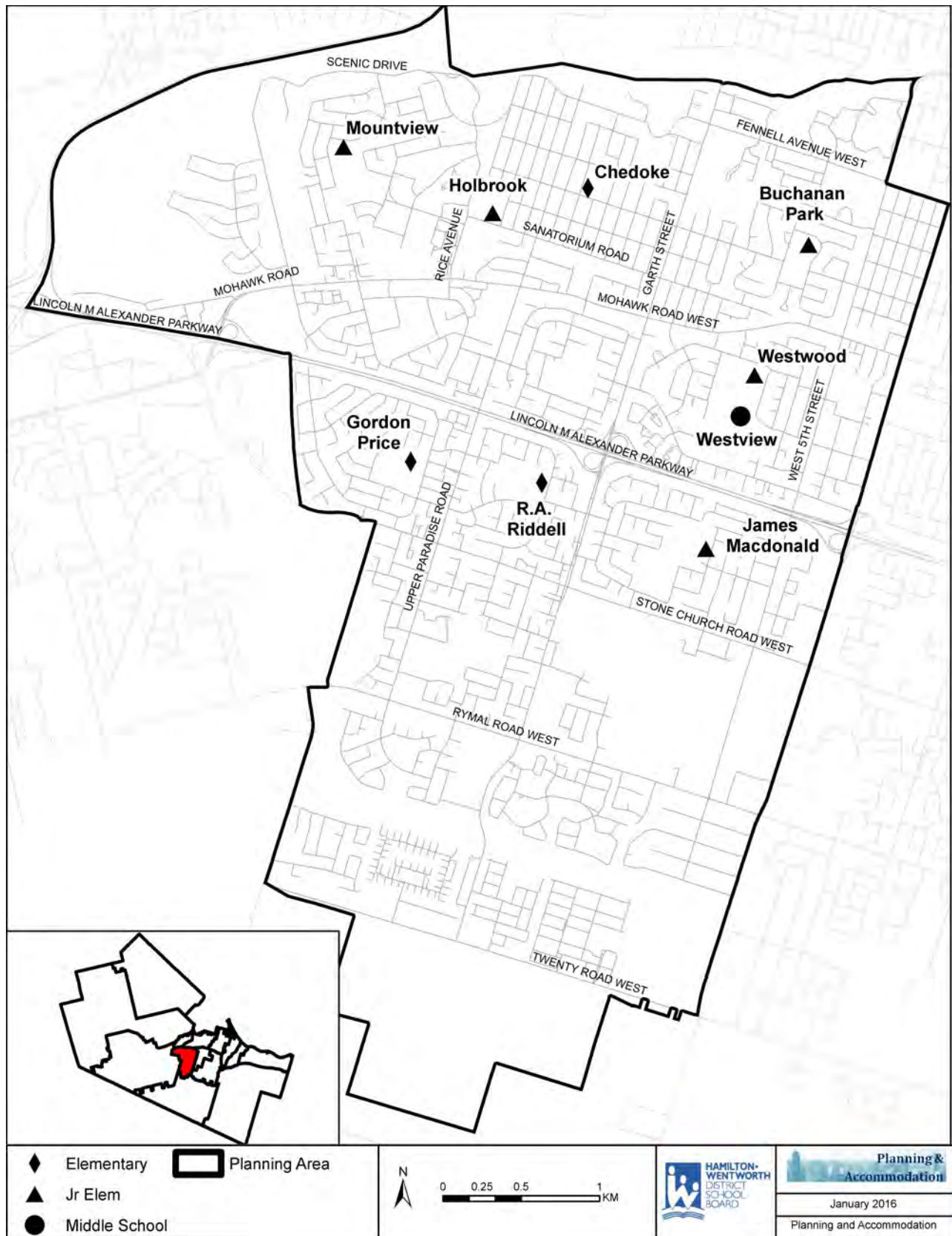
Accommodation review including Chedoke, Gordon Price, Holbrook and Mountview suggested in 2019/2020.

Investigate grade reorganization for James Macdonald into JK-8. Would require capital funding to ensure school can accommodate intermediate grades.

Accommodation review including Buchanan Park, Westview and Westwood suggested in 2020/2021.



2016 enrolment as of October 31, 2016.



School	Eng Grade	FI Grade	OTG	Portables	2016 Enrol (Util)	2021 Enrol (Util)	2026 Enrol (Util)
Ancaster Meadow	JK-8	-	579	12	657* (113%)	598 (103%)	598 (103%)
Ancaster Senior	7-8	7-8	387	0	339 (88%)	304 (79%)	285 (74%)
C.H. Bray	JK-6	-	199	8	317 (159%)	317 (159%)	314 (158%)
Fessenden	JK-6	1-6	383	6	525 (137%)	464 (121%)	460 (120%)
Queens Rangers	JK-6	-	222	0	130 (59%)	111 (50%)	102 (46%)
Rousseau	JK-6	-	291	0	261 (90%)	252 (87%)	233 (80%)
Tiffany Hills	JK-8	-	542	0	293* (54%)	558 (103%)	606 (112%)
			2603	26	2522 (97%)	2604 (100%)	2598 (100%)

Observations

Tiffany Hills opened in January 2017. Phase out portable use at Ancaster Meadow over 2-3 years.

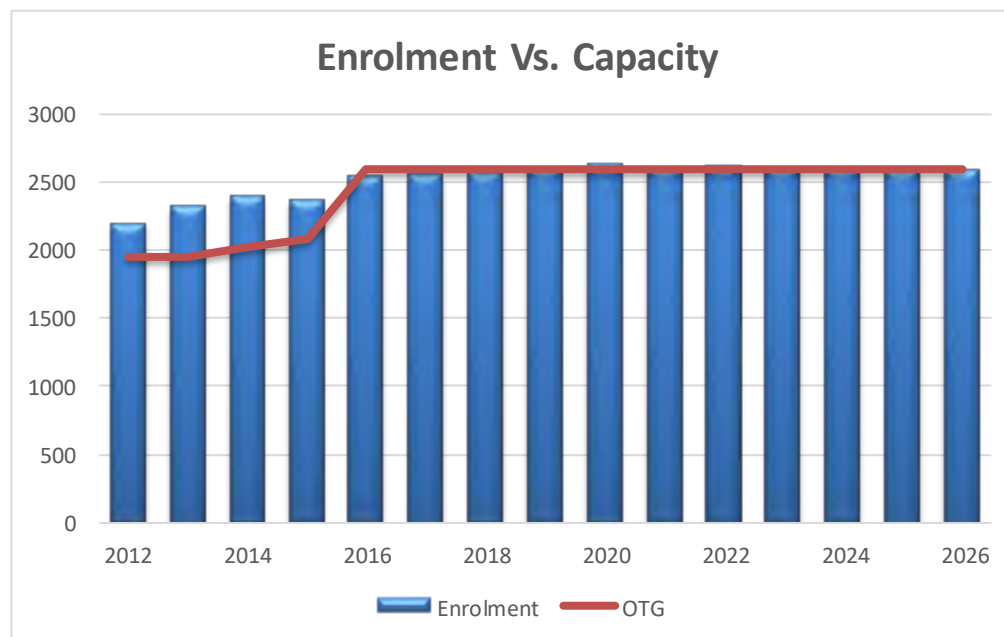
Accommodation Review to be completed in June 2017.

* Ancaster Meadow and Tiffany Hills current enrolment as of March 31, 2017.

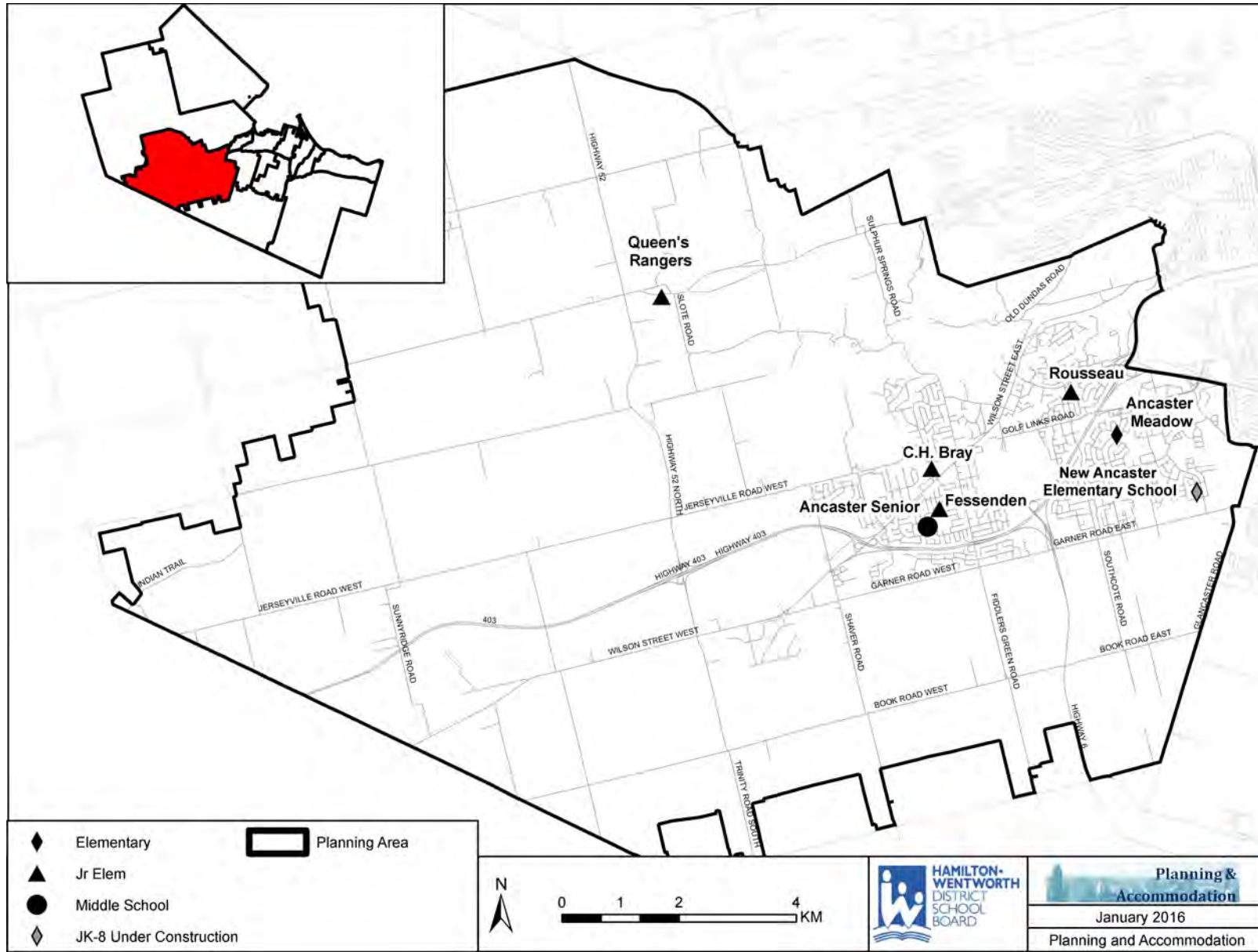
Next Steps

Approval of accommodation strategy by Trustees in Spring 2017.

Application to the Ministry of Education through capital priorities/school consolidated capital to address approved accommodation strategy.



2016 enrolment as of October 31, 2016.



School	Eng Grade	FI Grade	OTG	Portables	2016 Enrol (Util)	2021 Enrol (Util)	2026 Enrol (Util)
Elizabeth Bagshaw	JK-8	-	511	0	376 (74%)	374 (73%)	354 (69%)
Glen Brae	6-8	6-8	331	0	320 (97%)	356 (108%)	329 (99%)
Glen Echo	JK-5	1-5	314	3	304 (97%)	307 (98%)	288 (92%)
Lake Avenue	JK-8	-	516	2	506 (98%)	451 (87%)	454 (88%)
Sir Isaac Brock	JK-5	-	268	0	208 (78%)	208 (78%)	225 (84%)
Sir Wilfrid Laurier	JK-8	-	709	0	462 (65%)	508 (72%)	530 (75%)
			2649	5	2176 (82%)	2204 (83%)	2180 (82%)

Observations

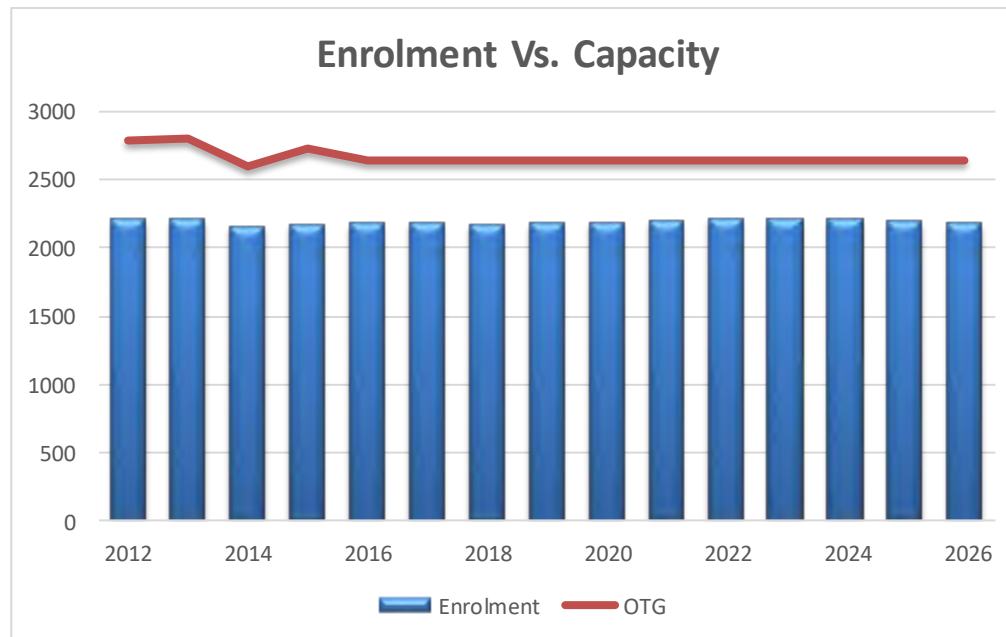
Accommodation review completed in June 2016.
Funding application for one new elementary school and renovation to Sir Wilfrid Laurier in July 2016.

Ministry approved funding for renovation to Sir Wilfrid Laurier.

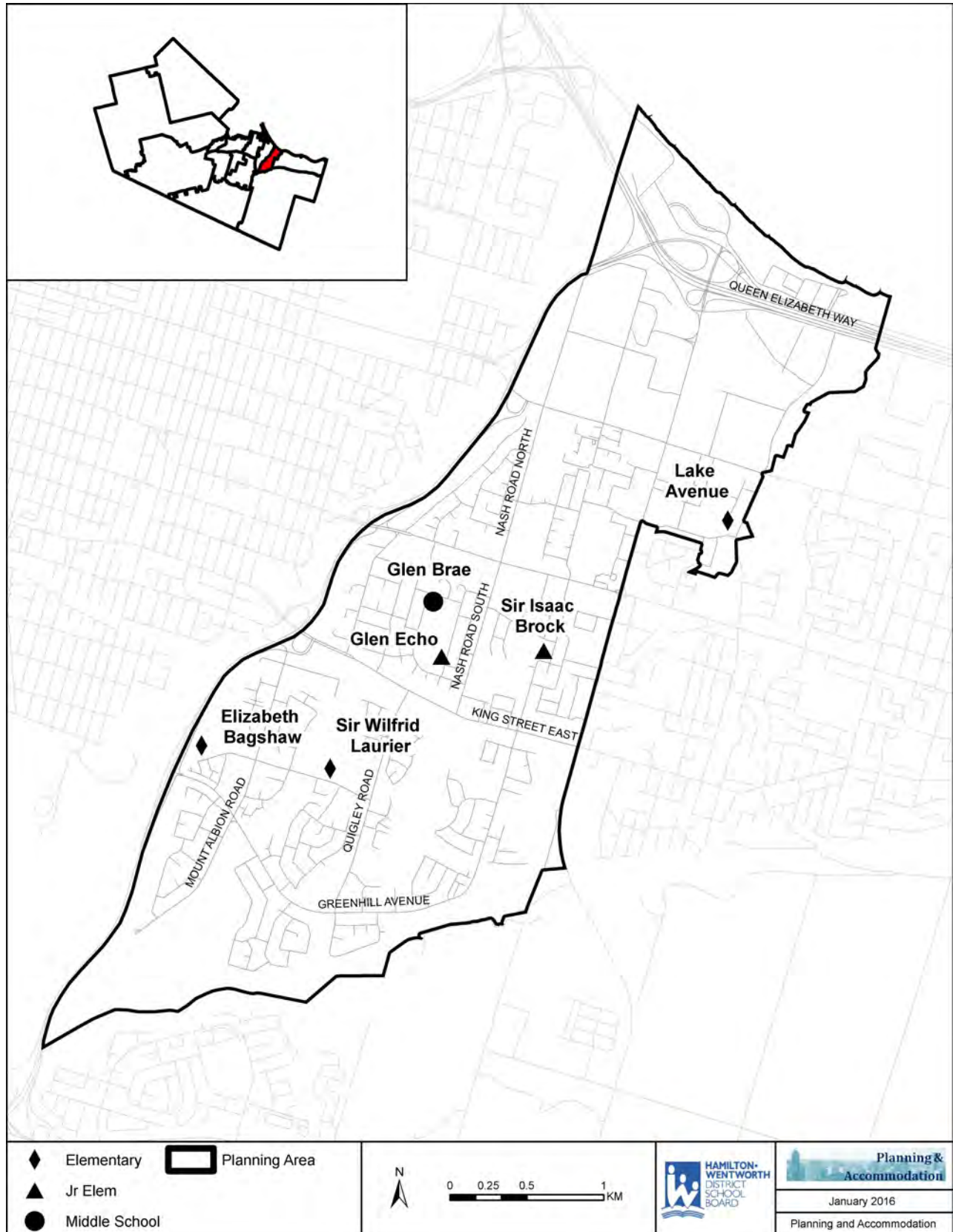
Funding application submitted to Ministry of Education for new JK-8 school on Glendale Campus.

Next Steps

Await funding announcement from Ministry of Education.



2016 enrolment as of October 31, 2016.



School	Eng Grade	FI Grade	OTG	Portables	2016 Enrol (Util)	2021 Enrol (Util)	2026 Enrol (Util)
A.M. Cunningham	JK-5	1-5	409	4	410 (100%)	343 (84%)	317 (78%)
Adelaide Hoodless	JK-8	-	548	0	425 (78%)	440 (80%)	444 (81%)
Memorial (City)	JK-8	-	668	0	460 (69%)	424 (63%)	393 (59%)
Prince of Wales	JK-8	-	787	0	644 (82%)	619 (79%)	665 (84%)
Queen Mary	JK-8	-	660	0	618 (94%)	592 (90%)	582 (88%)
			3072	4	2557 (83%)	2418 (79%)	2401 (78%)

Observations

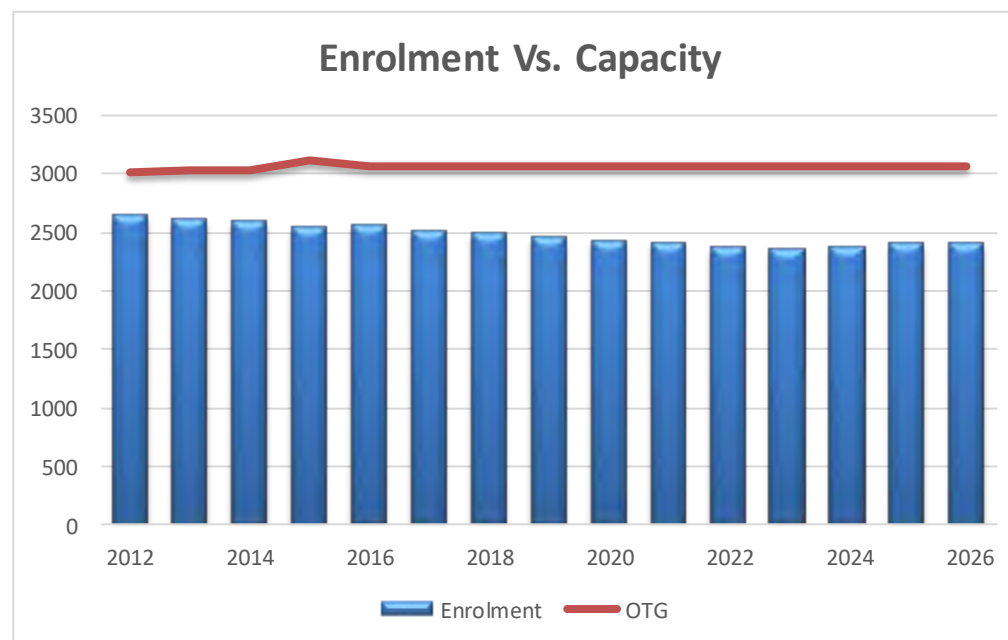
Projections indicate a stable enrolment in the Central Hamilton City planning area.

Memorial and Prince of Wales included in King George Accommodation Review completed in February 2012.

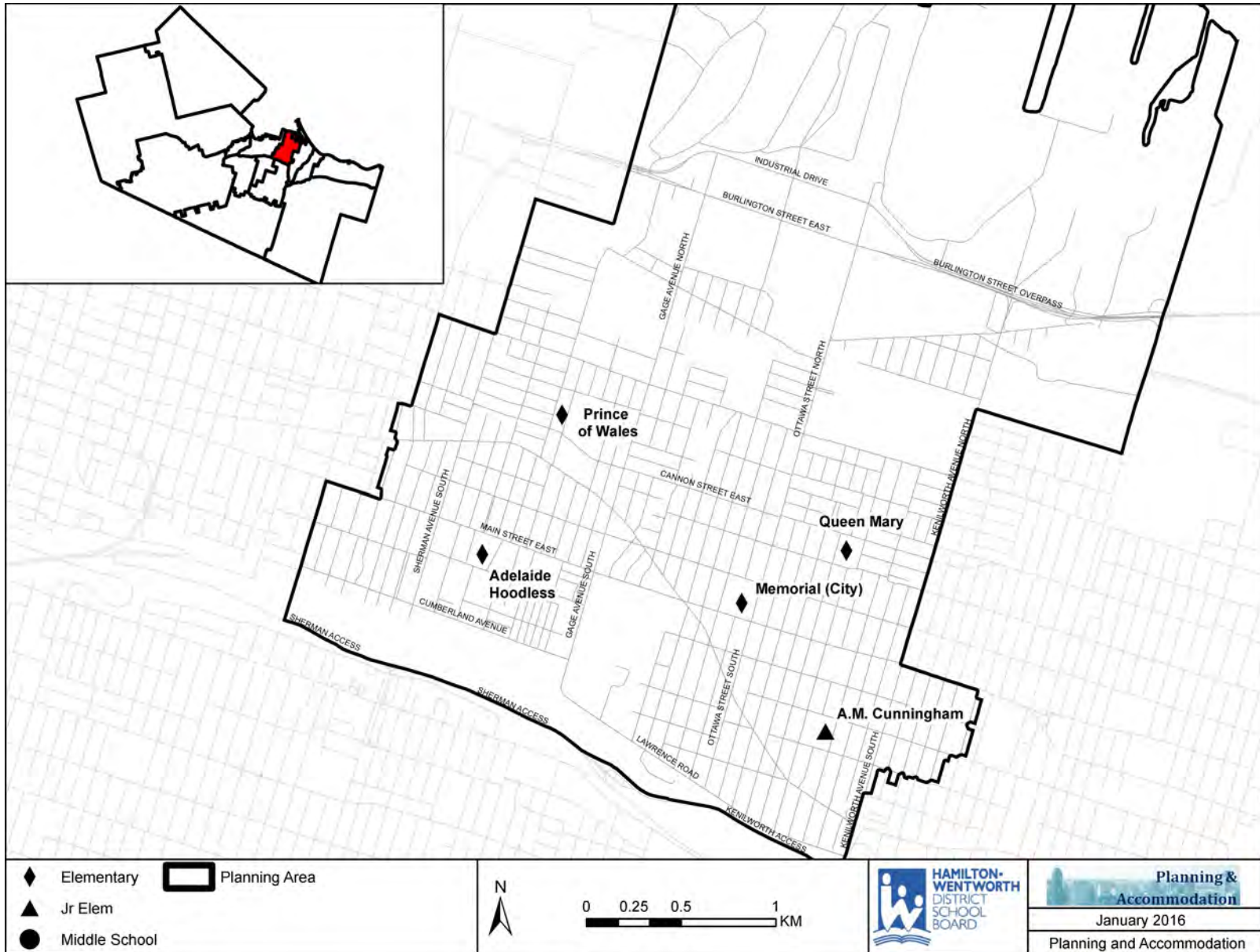
Next Steps

Through Early Learning 3/4, FI programming and special education, schools in this planning area are used more efficiently than the utilization indicates.

No accommodation review is recommended.



2016 enrolment as of October 31, 2016.



School	Eng Grade	FI Grade	OTG	2021 OTG	Portables	2016 Enrol (Util)	2021 Enrol (Util)	2026 Enrol (Util)
Beverly Central	JK-5	-	222	-	0	173 (78%)	0 (0%)	0 (0%)
Dr. John Seaton	JK-8	-	349	-	0	215 (62%)	0 (0%)	0 (0%)
Dundana	JK-5	1-5	398	398	0	367 (92%)	308 (77%)	313 (79%)
Dundas Central	JK-8	-	442	442	0	408 (92%)	384 (87%)	408 (92%)
Greensville	JK-5	-	222	-	0	174 (78%)	0 (0%)	0 (0%)
Sir William Osler	JK-8	6-8	602	602	0	605 (100%)	553 (92%)	513 (85%)
Spencer Valley	6-8	-	262	-	0	183 (70%)	0 (0%)	0 (0%)
Yorkview	JK-5	-	222	222	4	190 (86%)	192 (86%)	186 (84%)
New School Beverly	JK-8	-	-	350	0	-	384 (110%)	360 (103%)
New School Greensville	JK-8	-	-	350	0	-	326 (93%)	300 (86%)
			2719	2364	4	2315 (85%)	2147 (91%)	2080 (88%)

Observations

West Flamborough accommodation review completed June 2014. Beverly Central and Dr. Seaton approved to be consolidated into new school on Beverly Community Centre site in partnership with the City of Hamilton. Greensville and Spencer Valley approved to be consolidated into new school on the Greensville site in partnership with the Hamilton Public Library.

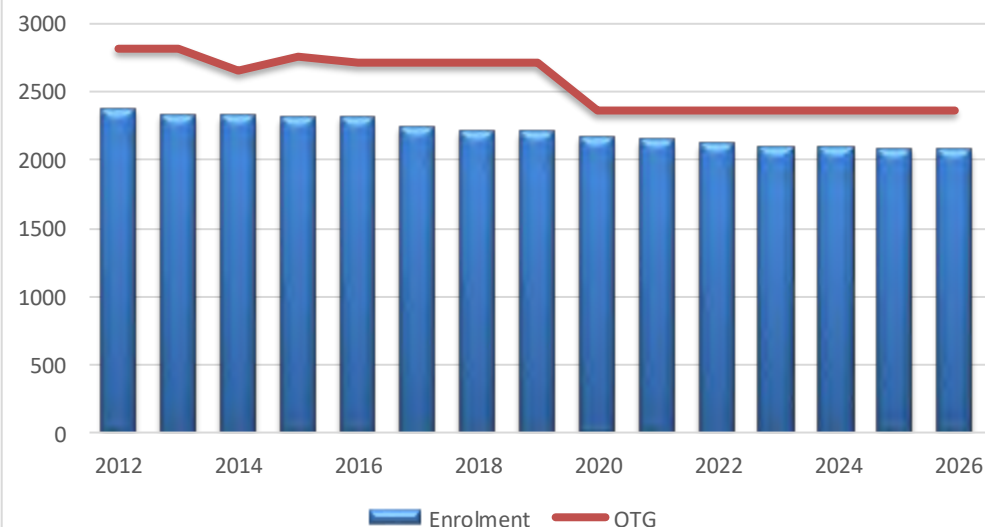
Dundas area schools (Dundas Central, Dundana, Sir William Osler & Yorkview projected to have stable enrolment.

Next Steps

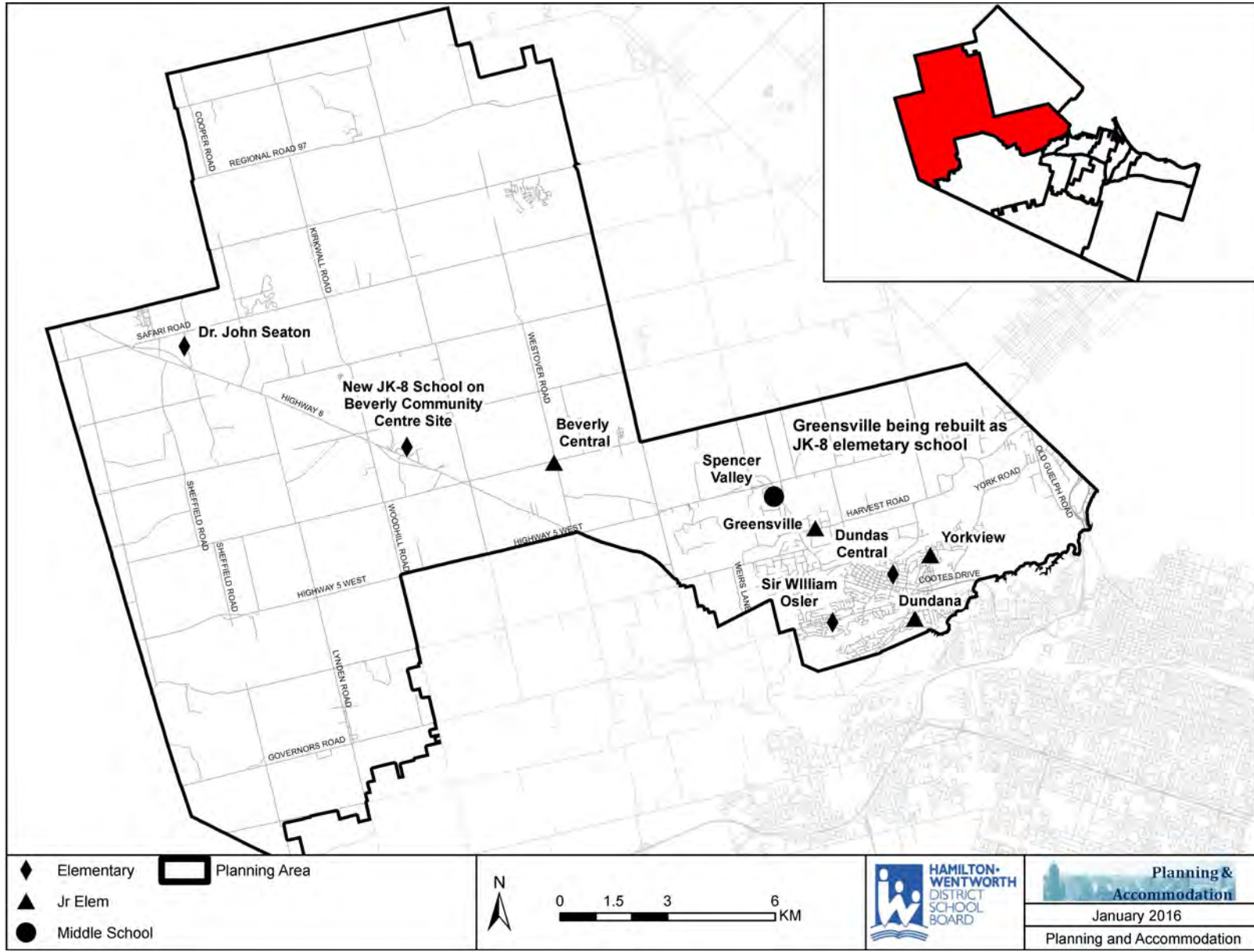
Student transition and school construction completion.

Dundas area accommodation review suggested in 2020/2021

Enrolment Vs. Capacity



2016 enrolment as of October 31, 2016.



School	Eng Grade	FI Grade	OTG	2021 OTG	Portables	2016 Enrol (Util)	2021 Enrol (Util)	2026 Enrol (Util)
Bellmoore	JK-8	-	640	640	12	973 (152%)	1279 (200%)	1280 (200%)
Billy Green	JK-8	-	372	372	8	486 (131%)	645 (173%)	690 (185%)
E.E. Michaelle Jean	-	1-8	274	274	0	196 (72%)	302 (110%)	308 (112%)
Gatestone	JK-8	-	582	582	1	616 (106%)	618 (106%)	604 (104%)
Janet Lee	JK-8	-	378	378	2	437 (116%)	453 (120%)	465 (123%)
Mount Albion	JK-8	-	280	280	4	356 (127%)	454 (162%)	485 (173%)
Summit Park School	JK-8	-	-	625	-	-	-	-
Tapleytown	JK-8	-	288	288	2	295 (102%)	439 (152%)	546 (190%)
			2814	3439	29	3359 (119%)	4190 (122%)	4378 (127%)

Observations

Projections indicate an increasing enrolment due to a residential development in the planning area.

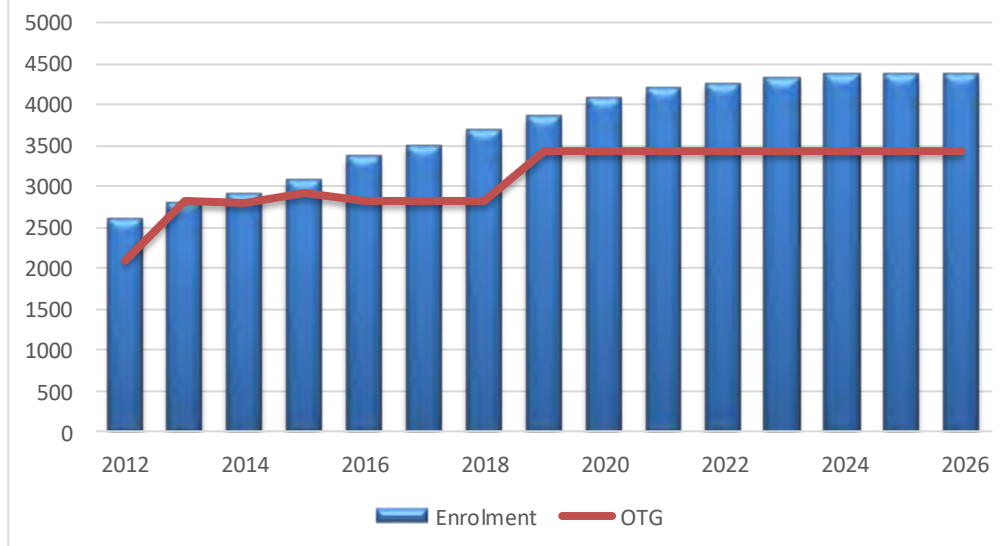
New 625 pupil place JK-8 school in Summit Park neighbourhood. Currently in pre-construction phase of project.

Next Steps

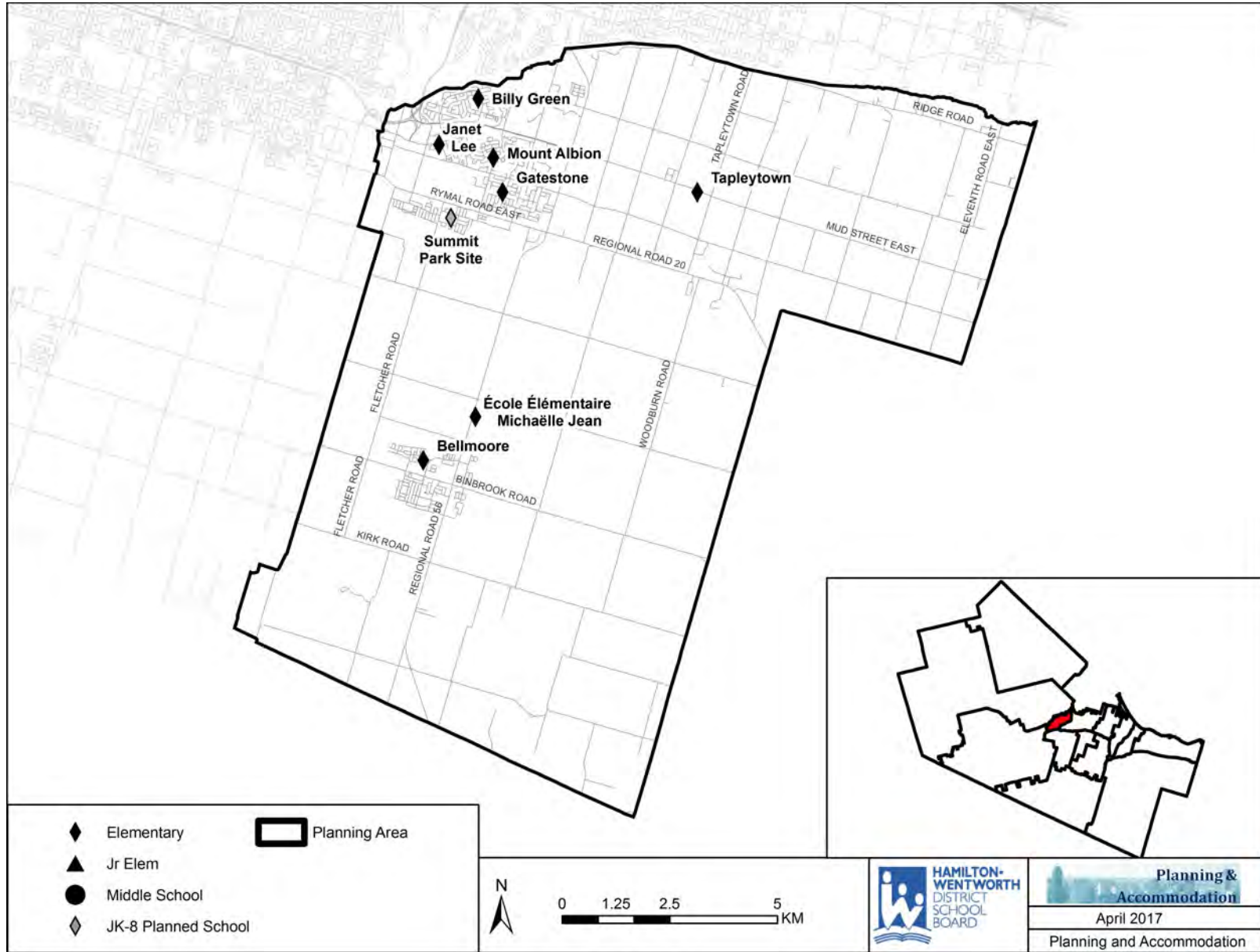
Boundary Review in Fall/Winter 2017 to create a boundary for the Summit Park school and to alleviate enrolment pressures at schools in area.

Land purchase in Binbrook for future elementary school in projected 2019. Land purchase in Upper Stoney Creek for future elementary school in projected 2020.

Enrolment Vs. Capacity

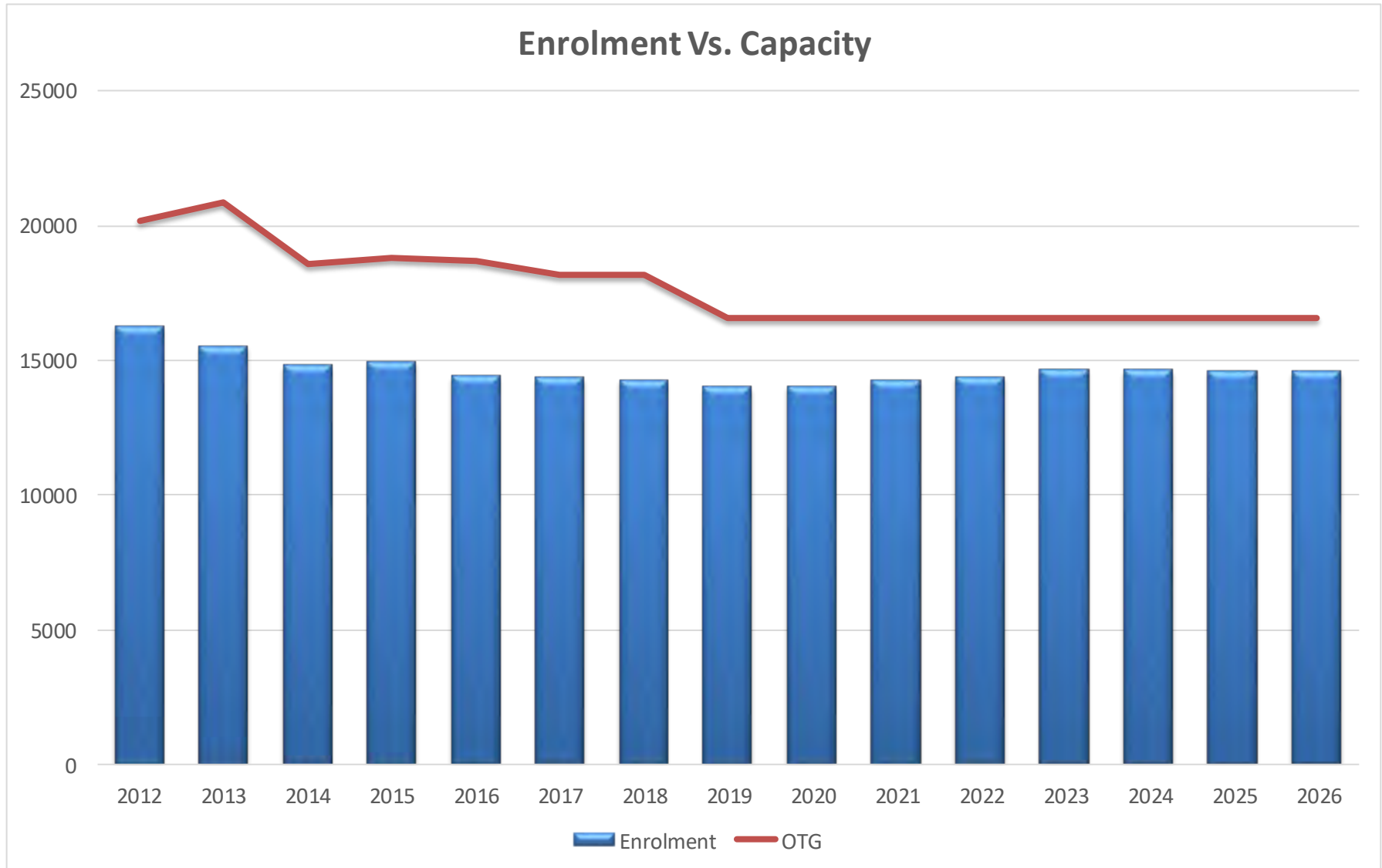


2016 enrolment as of October 31, 2016.



School	Eng Grade	FI Grade	OTG	2021 OTG	Portables	2016 Enrol (Util)	2021 Enrol (Util)	2026 Enrol (Util)
Ancaster High	9-12	-	1,281	1,281	0	1174 (92%)	1296 (101%)	1195 (93%)
Delta	9-12	-	1,431	-	0	675 (47%)	0 (%)	0 (%)
Dundas Valley	9-12	-	1,080	1,080	0	944 (87%)	815 (75%)	720 (67%)
Glendale	9-12	-	1,050	1,050	0	851 (81%)	824 (78%)	821 (78%)
Mountain	9-12	-	525	-	0	77 (15%)	0 (%)	0 (%)
New North Secondary	9-12	-	-	1,250	0	0 (%)	1148 (92%)	1156 (92%)
Nora Frances Henderson	9-12	-	1,092	1,250	0	732 (67%)	1018 (81%)	963 (77%)
Orchard Park	9-12	-	1,332	1,332	0	960 (72%)	1003 (75%)	980 (74%)
Saltfleet	9-12	-	1,173	1,173	3	1190 (101%)	1361 (116%)	1724 (147%)
Sherwood	9-12	9-10	1,374	1,374	0	1070 (78%)	1229 (89%)	1344 (98%)
Sir Allan MacNab	9-12	-	1,350	1,350	0	997 (74%)	966 (72%)	1153 (85%)
Sir John A. Macdonald	9-12	-	1,569	-	0	993 (63%)	0 (%)	0 (%)
Sir Winston Churchill	9-12	-	1,176	1,176	0	764 (65%)	702 (60%)	672 (57%)
Waterdown District	9-12	-	1,653	1,653	0	1199 (73%)	1128 (68%)	1139 (69%)
Westdale	9-12	9-12	1,461	1,461	0	1304 (89%)	1371 (94%)	1313 (90%)
Westmount	9-12	-	1,146	1,146	7	1457 (127%)	1132 (99%)	1125 (98%)
			18,693	16,576	10	14387 (77%)	13993 (84%)	14305 (86%)

2016 enrolment as of October 31, 2016.



2016 enrolment as of October 31, 2016.

Observations

- Completed North, South and West secondary accommodation reviews in 2012.
- Board approved the closure of 7 secondary schools and construction of 2 new secondary facilities.
- Barton, Hill Park, Parkview and Parkside closed June 2014. Barton used as Nora Frances Henderson Secondary School temporary site.
- Closure of Mountain Secondary in June 2017.

Next Steps

Family Schools 1 (Saltfleet, Orchard Park, Glendale)

- Continue to monitor enrolment at Saltfleet on a year to year basis to ensure appropriate student accommodation.
- Potential boundary review to alleviate projected enrolment pressure at Saltfleet.

Family Schools 2 (Sir Allan MacNab, Nora Frances Henderson)

- Construction of Nora Frances Henderson Secondary School located near Rymal Rd East and Upper Sherman.
- Future boundary review between Sir Allan MacNab and Nora Frances Henderson to solidify boundary south of Lincoln Alexander Parkway

Family Schools 3 (Sherwood, Sir Winston Churchill, Waterdown)

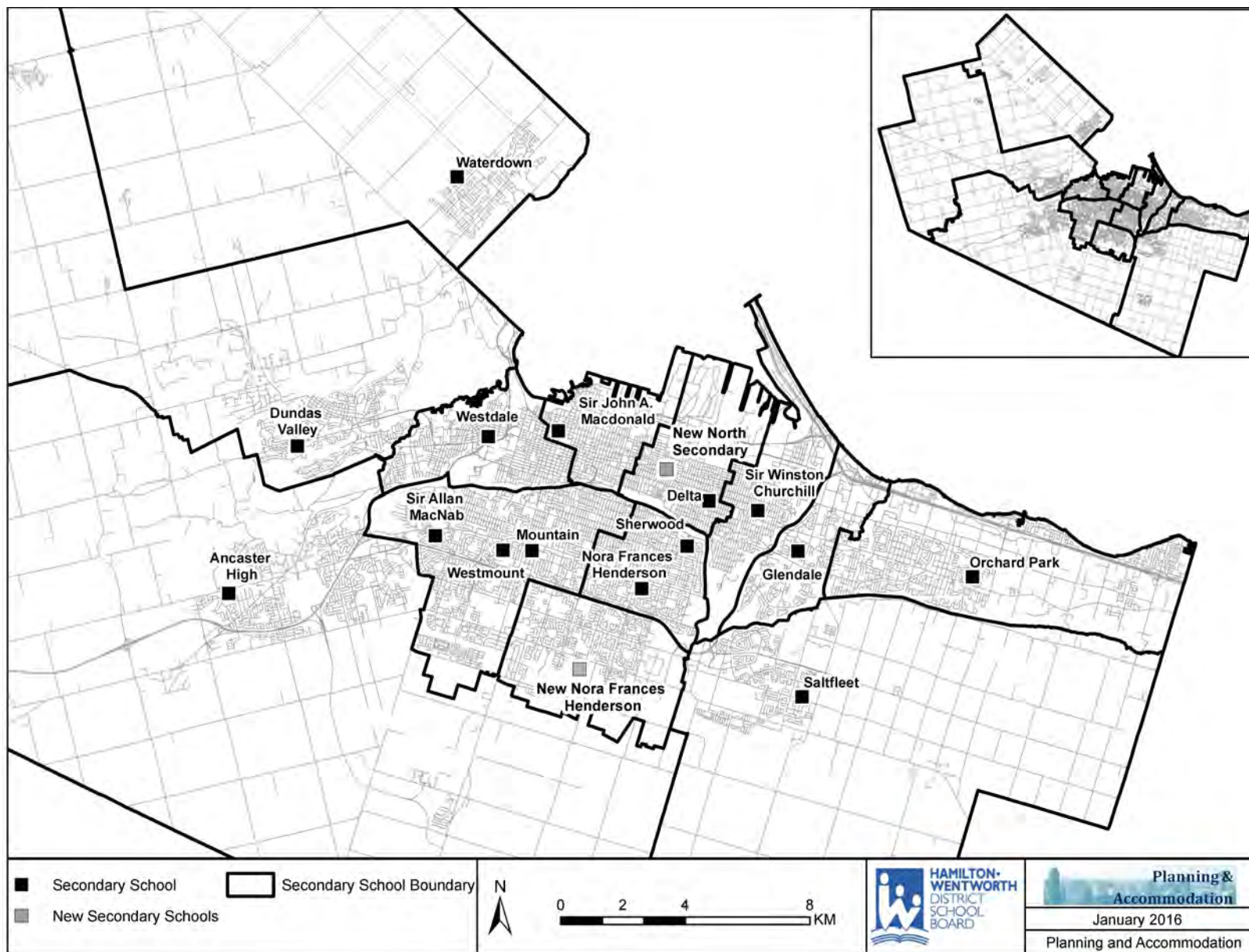
- Continue to monitor implementation of French Immersion program at Sherwood.

Family Schools 4 (Delta, Sir John A. Macdonald)

- Construction of New North Secondary School on lands south of Tim Horton's Stadium. Closure of Delta and Sir John A. Macdonald upon completion of New North Secondary School.

Family Schools 5 (Ancaster High, Dundas Valley)

- Continue to monitor enrolment at Ancaster High on a year to year basis to ensure appropriate student accommodation. Increased enrolment projected due to development and large grade 8 cohorts in Meadowlands area.



Section 8: Boundary Reviews**Boundary Evolution**

Boundaries are established/created as a result of several factors – for example: upon the construction of a new school or as the result of school consolidations or enrolment pressures. The shape, or contour, of a boundary can be attributed to residential development or land formations. Land parcels are often not perfectly square ‘geographic blocks’ of land. Geographic features (e.g. rivers, escarpments) and ‘man-made’ features (e.g. rail lines, major arteries and highways) also influence boundary lines. It may become necessary to make modifications to boundaries (boundary changes) as enrolments change, leading to accommodation pressures at a school - or conversely, empty spaces. Other factors which impact enrolments include program changes, shifts in community demographics, the capacity of buildings and residential developments.

Consideration

Boundary changes are often a solution when addressing an accommodation pressure for one school while another neighbouring school is underutilized. Boundary changes are not convenience measures and only considered when necessary. The following are items to consider when contemplating a boundary change:

- Current and projected utilization of the schools involved
- Condition of the facilities
- Have the schools been involved in a boundary change in the recent history?
- Rectifying boundary irregularities may require the review of more than two schools
- Altering attendance boundaries in one panel (e.g. elementary) should be done in concert with consideration of the other panel (e.g. secondary) and programs
- What policies or procedures are in place to guide the boundary change?

Upcoming Boundary Reviews

- Summit Park Boundary Review – to approve new boundary for the new JK-8 school in the Summit Park neighbourhood. Schools included will be from Glanbrook and Upper Stoney Creek.
- South Secondary Boundary Review- involves Nora Frances Henderson, Sherwood and Sir Allan MacNab.

Please see [HWDSB Boundary Review Policy](#) for details on the boundary review process.

Planning Area	2011/2012	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021
1 Westdale										
Dalewood	Complete									
Cootes Paradise	Complete									
Glenwood										
Prince Philip	Complete			Closed	SOLD					
2 Flamborough										
Allan Greenleaf		BR						LP		
Balaclava		BR								
Flamborough Centre										
Guy Brown		BR								
Mary Hopkins										
Millgrove		BR	Complete							
3 Central Mountain										
Cardinal Heights		GR	Complete		HS	HS	Closed			
Eastmount Park			Complete		Closed	SOLD				
Franklin Road			Complete							
GL Armstrong			Complete							
Linden Park		GR	Complete		Closed					
Norwood Park										
Pauline Johnson			Complete							
Queensdale			Complete							
Ridgemount		GR	Complete							
4 East Hamilton City 1										
Hillcrest			Complete							
Parkdale			Complete							
Rosedale			Complete							
Roxborough Park			Complete		Sold					
Viscount Montgomery			Complete							
WH Ballard			Complete	BR						
Woodward			Complete		Closed	Sold				

AR	: Accommodation Review
In Progress	: Accommodation Review in Progress
Complete	: Completed Accommodation Review
Open	: New School Open
GR	: Grade Reorganization

HS	: School being used for transition
BR	: Boundary Review
Closed	: Closed School
LP	: Land Purchase

Planning Area	2011/2012	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021
5 West Hamilton City										
Bennetto						In Progress				
Cathy Wever						In Progress				
Central						In Progress				
Dr. Davey						In Progress				
Earl Kitchener						In Progress				
Hess Street						In Progress				
Queen Victoria						In Progress				
Ryerson						In Progress				
Strathcona						In Progress				
6 West Glanbrook										
Bell-Stone			Complete	Closed	SOLD					
Mount Hope			Complete							
7 East Hamilton Mountain										
CB Stirling									AR	
Helen Detwiler									AR	
Highview									AR	
Huntington Park									AR	
Lawfield									AR	
Lincoln Alexander									AR	
Lisgar									AR	
Ray Lewis									AR	
Richard Beasley									AR	
Templemead									AR	
8 Lower Stoney Creek										
Collegiate Avenue					Complete					
Eastdale					Complete					
Green Acres					Complete					
Memorial (Stoney Creek)					Complete					
Mountain View					Complete					
RL Hyslop					Complete					
Winona										

AR	: Accommodation Review
In Progress	: Accommodation Review in Progress
Complete	: Completed Accommodation Review
Open	: New School Open
GR	: Grade Reorganization

HS	: School being used for transition
BR	: Boundary Review
Closed	: Closed School
LP	: Land Purchase

2017 Long-Term Facilities Master Plan Update Section 9: Accommodation Strategy Schedule

Planning Area	2011/2012	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021
9 West Hamilton Mountain										
Buchanan Park										AR
Chedoke				HS	HS	HS			AR	
Gordon Price									AR	
Holbrook									AR	
James Macdonald							GR			
Mountview									AR	
RA Riddell										
Westview							GR			AR
Westwood										AR
10 Ancaster										
Ancaster Meadow										
Tiffany Hills			LP			Open				
Ancaster Senior						In Progress				
CH Bray						In Progress				
Fessenden						In Progress				
Queen's Rangers						In Progress				
Rousseau						In Progress				
11 East Hamilton City 2										
Elizabeth Bagshaw					Complete					
Glen Brae					Complete					
Glen Echo					Complete					
Lake Avenue					Complete					
Sir Isaac Brock					Complete					
Sir Wilfrid Laurier					Complete					

AR	: Accommodation Review
In Progress	: Accommodation Review in Progress
Complete	: Completed Accommodation Review
Open	: New School Open
GR	: Grade Reorganization

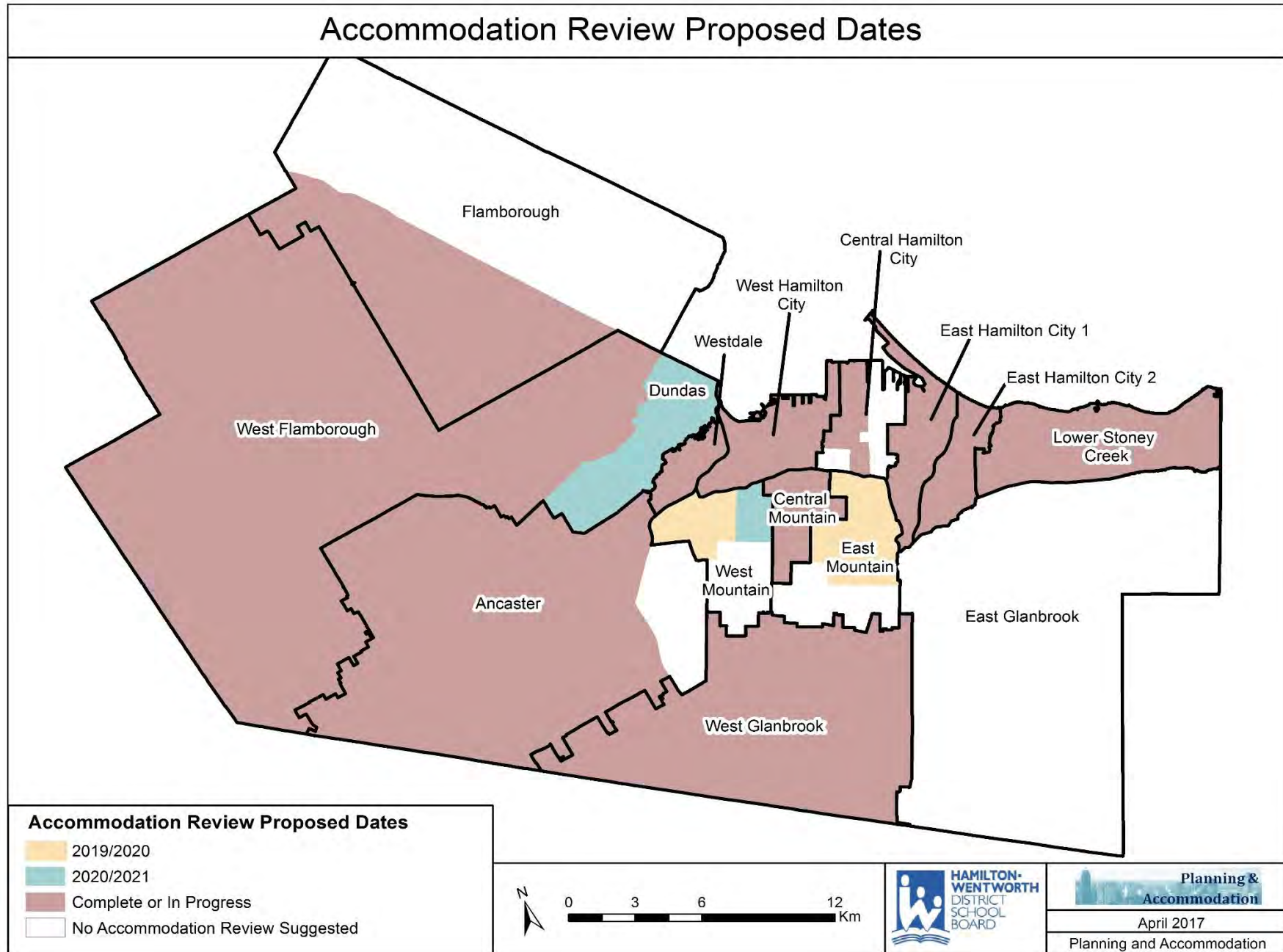
HS	: School being used for transition
BR	: Boundary Review
Closed	: Closed School
LP	: Land Purchase

Planning Area	2011/2012	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021
12 Central Hamilton City										
AM Cunningham				BR						
Adelaide Hoodless										
King George	Closed									
Memorial (Hamilton)	Complete									
Prince of Wales	Complete									
Queen Mary				BR						
13 Dundas and West Flamborough										
Beverly Central			Complete							
Dr. Seaton			Complete							
Greensville			Complete							
Spencer Valley		BR	Complete							
Dundana										AR
Dundas Central										AR
Sir William Osler										AR
Yorkview										AR
14 East Glanbrook and Upper Stoney Creek				LP					LP	
Bellmoore							BR			
Billy Green							BR			
Gatestone		BR								
Janet Lee							BR			
Michaelle Jean										
Mount Albion		BR								
Summit Park							BR			
Tapleystown							BR			

AR	: Accommodation Review
In Progress	: Accommodation Review in Progress
Complete	: Completed Accommodation Review
Open	: New School Open
GR	: Grade Reorganization

HS	: School being used for transition
BR	: Boundary Review
Closed	: Closed School
LP	: Land Purchase

Elementary Accommodation Reviews	2011/2012	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021
	2	0	4	0	2	2	0	0	2	2



Section 10: Portable Strategy

In 2011, a new approach to portable and portapak management was established at HWDSB. The Portable Allocation Process provides the framework for making use of, and reducing the reliance of temporary accommodation. The result of the process is decreased operating expenses, eliminating old portables in need of repair and ensured equitable allocation of temporary classrooms across the system. The process helps ensure that schools who have temporary accommodation are utilizing the built space to its maximum capacity before using portables. If the built space is deemed sufficient then the portables are to be moved, locked or demolished depending on the condition.

There are three different types of temporary accommodation. There are portables, portapaks and relocatable classroom modules (RCM). A portable is an individual transportable classroom that is independent from the school. A portapak and RCM are larger spaces configured for instructional use.

There are significant costs associated with the purchase, maintenance and relocation of portables. The purchase price of a portable is approximately \$75,000, while the cost of moving a portable is approximately \$40,000. Annual operating cost of a portable is approximately \$20,000 which includes heating, cooling, electricity, regular cleaning, and maintenance and capital costs. The demolition costs for a portable is roughly \$7,500 and is strongly recommended for portables in poor condition which cannot be sold.

Since 2010/11, HWDSB has reduced its portable count from 248 to 153 in 2016/17. Please see the chart below which breaks down the number of portables and portapaks from 2010/11 to 2016/17.

	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17
Portables	148	143	114	111	106	108	97
Portapaks/RCM	100	90	77	72	56	62	56
Total	248	233	191	183	162	170	153

Portables will be used to aid in short term accommodation pressures. School's enrolment can fluctuate year to year which may cause a need for temporary accommodation. Portables will be allocated to schools based on year to year needs. Portapaks will only be issued to schools with significant long term enrolment pressure with no accommodation relief in the near future. Accommodation relief can be in the form of a boundary change, program change or new school. In the case where these three solutions are not viable then a portapak will be considered and will only be issued to schools with long term need.

Section 10: Portables

Portable Inventory as of May 2017

Elementary School	Portables	Portapaks
AM Cunningham	4	
Ancaster Meadow	12	
Bellmoore	6	6
Billy Green	8	
C.B. Stirling		6
C.H. Bray	2	6
Central	2	
Chedoke	3	
Fessenden	6	
Flamb. Centre		6
Franklin Road	2	
Gatestone	1	
Glen Echo	3	
Guy Brown	3	
Helen Detwiler		6
Huntington Park		6
Janet Lee	2	
Lake Ave	2	
Lawfield	5	
Memorial (SC)	1	
Mount Albion		4
Mount Hope	2	
Mountain View		6
Norwood Park	3	
R.A. Riddell*	4	
Ray Lewis	2	
Ridgemount	2	
Ryerson	4	
Tapleystown	2	
Templemead	2	
Winona	1	6
Yorkview		4
Total	84	56

*RA Riddell 4th portable is owned by day care

Secondary School	Portables	Portapaks
Saltfleet	3	
Westmount	8	
Total	11	0

Administration Building	Portables	Portapaks
Vincent Massey	2	
Total	2	0

Grand Total	Portables	Portapaks
Total	97	56

Section 11: Program Initiatives**French Immersion**

HWDSB has been committed to providing a quality French Immersion (FI) program since it began in 1975 in the Hamilton Board of Education. Today, the FI program continues to offer an excellent opportunity for students to develop and refine their ability to communicate in French and to understand and appreciate Canada's francophone heritage, language and literature.

French Immersion (FI) begins in grade 1 and is offered through to grade 12. Junior kindergarten (JK) and Senior Kindergarten (SK) students interested in FI attend their home school for kindergarten and move to their assigned FI School in grade 1 (if it is not offered in their home school).

The LTFMP plays a significant part in the placement of FI programming and HWDSB's efforts to continue with a healthy FI program enrolment across the system. The following guiding principles inform HWDSB's practice and help to address the accommodation and fiscal considerations for FI programming:

- *Providing an engaging program for all students*
- *Long term reduced reliance on portable classrooms*
- *For single track schools – a healthy enrolment in the program*
- *For dual track schools – a balanced and healthy enrolment in both FI and English programs*
- *Long term preferred K-8 model for elementary schools*
- *Pathway to an FI program in secondary school*
- *Equity of access (transportation, facilities)*
- *Equity of opportunity*
- *Equitable distribution of programs*

(From French Immersion Review Report – Received by Board on December 12, 2011.)

As of September 2016, there are 15 elementary schools and 2 secondary school providing French Immersion programming. A second secondary program opened at Sherwood Secondary in September 2015 commencing with grade 9 programming only. The grade structure has expanded each year in September 2018 will offer a full grade 9-12 complement of programming. In 2015, elementary programming expanded to Ancaster Senior where graduates of the Fessenden Elementary grades 1-6 program now continue their FI education for grades 7 and 8.

In September 2017, a new FI program at Mary Hopkins will open to expand access to FI programming in Waterdown and provide accommodation relief to Guy Brown. Flamborough Centre was approved to accommodate the grade 5 graduates from Mary Hopkins. Additional French Immersion programming in Ancaster and Lower City are being addressed through the accommodation review process which will conclude in June 2017. Through the Lower Stoney Creek accommodation review in the 2015/16 school year a new FI program was approved. Location of the program has yet to be finalized.

Elementary French Immersion enrolment since 2011 has increased from 2,584 students to 3,269 in October 2016. Over the past 3 years the enrolment at the program entry point has been approximately 530 students. With steady enrolment at the entry level grade, the FI program enrolment will remain consistent at the primary level. In turn, continued growth will occur in the junior, intermediate and secondary levels as students progress from grade to grade. To ensure equal access and an engaging FI program, HWDSB will be reviewing the placement and potential expansion of the FI program as part of the elementary program strategy.

Section 11: Program Initiatives

The tables below indicate the locations and grade structures of the schools offering French Immersion. The table is divided by associated secondary schools and elementary clusters of schools. This also includes junior elementary schools graduating into middle schools. Italicized schools indicated a single track French Immersion school.

School Name	2016 Grade Structure	2017 Grade Structure	2018 Grade Structure	2019 Grade Structure	2020 Grade Structure
Sherwood	9-10	9-11	9-12	9-12	9-12

A.M. Cunningham	1-5	1-5	1-5	1-5	1-5
Glen Echo	1-5	1-5	1-5	1-5	1-5
Glen Brae	6-8	6-8	6-8	6-8	6-8

Lawfield	1-8	1-8	1-8	1-8	1-8
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<i>École Élémentaire Michaëlle Jean</i>	1-8	1-8	1-8	1-8	1-8
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<i>Norwood Park</i>	1-8	1-8	1-8	1-8	1-8
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Fessenden	1-6	1-6	1-6	1-6	1-6
Ancaster Senior	7-8	7-8	7-8	7-8	7-8

School Name	2016 Grade Structure	2017 Grade Structure	2018 Grade Structure	2019 Grade Structure	2020 Grade Structure
Westdale	9-12	9-12	9-12	9-12	9-12

Cootes Paradise	1-5	1-5	1-5	1-5	1-5
Dalewood	6-8	6-8	6-8	6-8	6-8

Guy B. Brown	1-7	1-8	1-8	1-8	1-8
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Mary Hopkins	-	1-3	1-4	1-5	1-5
Flamborough Centre	-	-	-	-	6

Dundana	1-5	1-5	1-5	1-5	1-5
Sir William Osler	6-8	6-8	6-8	6-8	6-8

Earl Kitchener	1-5	1-5	1-5	1-5	1-5
Ryerson	6-8	6-8	6-8	6-8	6-8

Section 11: Program Initiatives**Special Education**

HWDSB provides a spectrum of special education supports and services in order to meet the individual and diverse needs of our students. This spectrum includes in-school support as well as itinerant support, short-term intervention services, and placements in regular class, special class and Glenwood Special Day School. The Board endeavours to meet the needs of all students accessing Special Education/Student Services supports in the most enabling environment, in accordance with parental preference. The Board's practice, consistent with the Ministry direction is that, wherever possible, special learning needs are addressed within the home school. This aligns with our Program Strategy, where we envision a school system in which students can find what they need at any one of our schools. Thus, there will be an increased emphasis, in alignment with accessibility legislation, on providing school environments in which students with various disabilities can participate alongside their peers.

Special Education programs are based on a tiered approach. Most students can and should have their needs met within the regular class, or tier 1, environment. However, some students require short-term, tier 2 interventions which can occur in the home school or in school locations within the district. These time-definite interventions require specialized settings to permit the transition in and out of these types of intensive, small group interventions, and will need to be considered in addition to general classroom requirements. In addition, a few students require more specialized, or tier 3 settings. As part of the Secondary Program Strategy, Special Education classes are being reviewed to ensure that students receive programming that will enable them to reach their potential through appropriate life skills training and be reflective of the types of personal care requirements that the students may have. This may result in additional facility requirements (e.g., washroom renovations, therapy areas, lifts, ceiling tracks, electrical outlets, etc.).

Many professionals, including itinerant teachers, educational assistants, special education consultants, speech-language pathologists, kinesiologists, psychoeducational consultants, social workers, and system special education teams provide services to assist schools to meet the needs of all students, and in particular those with special education needs. In addition, the Board works collaboratively with many community partners, including medical professionals, in the provision of specialized services. The need for specific spaces within schools to allow for the involvement of these services needs to be considered in the LTFMP.

Alternative Education

While our goal is to provide program for students in their catchment school, there may be times when students, for a period of time, may find it difficult to attend school in a traditional school environment. Where this is the case, students may access System Alternative Education Programs. Where a student attends will be based upon the student's strengths and needed supports. Programs will be located in:

- Community locations where there is value-added for the students and where the location supports their next steps/pathway (i.e. Mohawk College);
- HWDSB sites that are not secondary schools when a student is unable to be in a secondary school setting;
- Secondary schools where students are able to be in secondary school but need an alternative structure within the school or as a support in transitioning to a secondary school timetable.

Section 12: Schools as Community Hubs

Facilities Partnerships

Sharing facilities can be beneficial to our students and the community. By sharing space, we can work together to improve services, programs and supports for our students as well as maximize the use of public infrastructure through increased flexibility and use. The purpose of a facility partnership is to encourage school boards to work with their community partners to share facilities which benefits boards, students and the community. Facility Partnerships also optimize the use of public assets owned by school boards. Facility partnerships provide a potential opportunity to reduce facility costs and/or improve educational opportunities for students.

Offering space in schools to partners can also strengthen the role of schools in communities, provide a place for programs and facilitate the coordination of, and improve access to, services for students and the wider community. Before entering a facility partnership, there is a need to determine the expectations for the partnering organization and how it aligns with HWDSB’s strategic directions. Partnerships must be appropriate for the school setting and not compromise the student achievement strategy.

Facility partnerships operate on a cost-recovery basis. The fees charged to partners should cover the operations and capital cost, including administrative costs and property taxes (if applicable), to the board for the space occupied by the partner. Additional costs to perform minor renovations to protect student safety, provide appropriate washrooms, and otherwise make the space suitable for use by facility partners will be at the expense of the partner.

Identification of Potential Spaces

The information used to identify facilities that may be suitable for facility partnerships with respect to new construction and unused space in schools will be established through the [Use of Board Facilities Policy](#).

Planning and Accommodation staff have identified the following sites as having spaces available for potential Facility Partnerships.

Current Schools or Proposed Future Schools Available for Potential Facility Partnership

Elementary Schools	Secondary Schools	Proposed Future Elem Schools
Buchanan Park	Glendale	Waterdown Site
Hillcrest	Orchard Park	Binbrook Site
Prince of Wales	Sir Allan MacNab	Summit Park Site
Rosedale	Sir Winston Churchill	Nash Site
W.H. Ballard	Waterdown	Winona Site
Westview		
Westwood		

Section 12: Schools as Community Hubs**Programs in HWDSB Schools**

HWDSB has a variety of programs throughout the Board to assist parents with childcare, early learning and creating seamless days for young students. Programs include:

Parenting and Family Literacy Centre – Is school-based programs for parents and their children, aged birth to six years of age that operate during the school day. The parent/caregiver stays with the child at all times.

These programs help to prepare children for school and encourage families to be part of their children’s learning by:

- Helping children build essential literacy and numeracy skills through stories, music, reading and playing
- Encouraging families to engage in their children’s learning
- Offering a book-lending library in different languages, so parents can read to their children in their first language
- Helping parents and children feel comfortable and familiar with school staff and school routines
- Giving families the chance to spend time with other families
- Linking families with appropriate community resources for special needs, health and other related services
- Expanding the network of services already available to families in Hamilton by collaborating with their local Ontario Early Years Centres, early learning and child care centres and other programs for families with young children

Ontario Early Years Centres - Is a place for parents and caregivers of children up to the age of six to get information about their children’s development and services to support that development.

Each Centre provides the following free services to parents and guardians:

- Early learning and literacy programs for parents and their children
- Programs to support parents and caregivers in all aspects of early child development
- Programs on pregnancy and parenting
- Links to other early years programs in the community

Childcare Centres

Since 2012, HWDSB has received multiple funding grants for the creation or retrofit of existing childcare spaces within schools. The Ministry of Education’s early learning initiatives have created easier access to better child care facilities. Since 2013, 12 spaces have received, or are in the process of receiving, additional space or a retrofit of existing space. Through capital priority submissions HWDSB has received funding for four full- day new childcare centres at Franklin Road, New Greenville, Summit Park and Tiffany Hills.

HWDSB provides spaces within schools for not for profit childcare services for outside organizations. The type of care ranges from before and after care and all day daycare. Appendix I indicates the locations of all community programs listed above as well as shared site recreation centre locations.

Section 12: Schools as Community Hubs**Community Use of Schools (Rentals)**

Schools are integral partners in their communities. Hamilton-Wentworth District School Board believes in strengthening bonds between communities and schools through community use of our facilities to improve student achievement, create healthier neighbourhoods, and encourage life-long learning. HWDSB is committed to providing the community with equitable access to Board facilities. It is our intent to ensure equity among agencies and provide first access to facilities for agencies with a focus on student achievement and skill building.

The following user categories establish the order of priority in which Hamilton-Wentworth District School Board facilities are made available:

- Schools and school-related activities always have priority for use of their respective facilities
- Partnerships and agreements with Hamilton-Wentworth District School Board
- Community Not-For-Profit Youth Groups: Not-for-profit groups and organizations that serve the needs of youth and that provide programming that is low cost or free for participation. Preference will be given to groups and organizations that provide programs and opportunities focused on supporting student achievement, skill building, and that are neighbourhood-based.
- Community Not-For-Profit Adult Groups: Not-for-profit groups and organizations that serve the needs of adults and that provide programming that is low cost or free for participation. Preference will be given to groups and organizations that provide programs and opportunities focused on supporting student achievement, skill building, and that are neighbourhood-based.
- Registered Non-Profit Groups: Registered non-profit groups and organizations that serve the broader community and charge fees or collect donations for participation in programs and opportunities. Fees are charged to participants that are more than covering the cost of permitting HWDSB facilities and incidental costs.
- For Profit Groups: Use of HWDSB facilities by youth and adult for profit groups and organizations that are commercial or business in nature and are located in and outside of the Hamilton-Wentworth district.

In each user category, preference for use of Hamilton-Wentworth District School Board facilities is given to groups and organizations whose activities, events, programs, and opportunities are:

- Supporting or contributing to student achievement and skill building
- Neighbourhood or community-based and where users are part of the neighbourhoods in which the facility is located to help develop relationships and support neighbourhood community-building
- Using Board space to provide low or no cost opportunities to participants
- Sponsored or funded by the Government of Ontario

HWDSB receives funds through the MOE for community use of schools programs to offset rental fees charged to the community. Community use of schools funding provides assistance to boards to increase affordable access for not-for-profit groups to both indoor and outdoor school spaces at reduced rates outside of regular school hours. In addition to community use of schools funds, HWDSB receives funds through the priority school initiative. Through the Priority Schools Initiative, the Ontario Ministry of Education has provided support to selected school boards in order that not-for-profit groups will have free after-hours access to designated school facilities in communities that need it most. Free use of school space will allow local not-for-profit organizations to offer affordable or no-cost programming at these schools. HWDSB receives Priority Schools funding to offset the costs at 21 elementary schools and 4 secondary schools.

Section 12: Schools as Community Hubs

HWDSB strives to ensure that schools are accessible for community use. Since 2009, HWDSB's community use of school hour totals have tripled to over 412,000 hours in 2013/2014. Since 2013/14 HWDSB has averaged over 400,000 hours of rental and community use of schools per year. The increase in school usage illustrates HWDSB's committee to making the schools available for community use and that schools are being used as community HUBS throughout the City of Hamilton. See the chart below for the breakdown of community use of schools hours which includes use at priority schools.

Year	Hours of Use	Increase in Hours	% Change
2009/10	111,314	-	-
2010/11	131,106	19,792	18%
2011/12	252,731	121,625	93%
2012/13	339,628	86,897	34%
2013/14	412,491	72,863	21%
2014/15	423,982	11,491	3%
2015/16	401,895	-22,187	-5%

Rental Rates

In 2016/2107 the community use of school rates changed its model from previous years. School boards are required to provide space to community partners on a cost recovery basis. To calculate a cost recovery model, staff used a cost accounting tool that calculates the cost per square foot to operate our facilities and applies this cost to the area rented to determine a rate per hour. Both direct and indirect facility costs are combined with variable data such as operating hours and facility inventory data to establish a cost recovery rate per space type. The data used in the tool is found in the Board's audited annual financial statements, making the data valid, consistent and transparent.

For more information on rental rates and facility availability please see the [Rental Webpage](#).

Section 13: Maintenance Planning**Purpose:**

The purpose of the 5-year Maintenance Plan is to maintain operations of HWDSB facilities within the guidelines defined by the Annual Plan (School Renewal), Long-Term Facilities Master plan and any and all other policies or procedures as approved by the HWDSB.

The Maintenance Plan provides a means of measuring actual progress against planned accomplishments. Through tracking of trending analysis, deficiencies may be maintained at a manageable level or used to reflect an unmanageable area of concern that should be addressed in future budget processes.

It is the goal of Facilities Management to efficiently utilize all available resources to gain the greatest return on HWDSB investments.

Objectives:

The objectives of the 5-year Maintenance Plan are to:

1. Ensure that facilities are operated in an effective, safe, and economical manner.
2. Provide maintenance planning for buildings, grounds, and equipment, which eliminates or reduces, the risk of failure and safety hazards; thereby, protecting the occupants as well as the investment.
3. Provide minor alterations to facilitate the continued functionality of buildings as their educational needs and uses change over time.
4. Provide continuous use of facilities without disruption to programs by applying the principles of Preventive Maintenance (PM), thus reducing the possibility of emergency repairs.

5-Year Plan:

Staff will continue to audit the Facility Condition Index (FCI) prepared by VFA Canada of each of the 104 schools in the current HWDSB inventory, balancing the reactive and proactive maintenance needs of each facility. The reactive and proactive needs will be tracked utilizing the work order system and software adopted by HWDSB. The ultimate objective of the plan is to transition from a reactive plan to a predictive and preventative (proactive) plan that will permit the proper allocation of funds to the needs of the inventory, reduce emergency spending, and prolong the lifecycle of assets in the inventory.

Resources:

The execution of the Maintenance Plan is led by the Facility Operations Manager, who is supported by a team of 15 Facility Operation Supervisors. Those supervisors are each assigned to a Secondary School and the associated feeder schools, and are responsible to oversee school custodial and maintenance activities and staffing throughout the operating school day. In addition to the 15, 1 additional afternoon Facility Operation Supervisor oversees and is responsible for the inventory of facilities during the afternoon and evening caretaking shifts.

Preventative Maintenance (PM) is completed by CUPE Maintenance and Caretaking staff, who regularly inspect and service equipment on a scheduled basis. Reactive and proactive maintenance service is also provided by third party service providers as the need arises.



HAMILTON-WENTWORTH
DISTRICT SCHOOL BOARD



Conservation and Demand Management Plan 2014 - 2019

MAY 2017 UPDATE

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- 1) Introduction
- 2) Energy Consumption and Greenhouse Gas Emission
- 3) Energy Conservation Goals, Objectives and Results
- 4) Conservation and Demand Management Measures

Section 14: Conservation and Demand Management Plan

1) Introduction

Under the Green Energy Act 2009, (Ontario Regulation 397/11) public agencies as municipalities, municipal service boards, school boards, universities, colleges and hospitals are required to report on their energy consumption and greenhouse gas (GHG) emissions beginning in 2013 and to develop and implement energy Conservation and Demand (CDM) plans starting July 1, 2014.

The Hamilton-Wentworth District School Board is 100% funded by the Ministry of Education. In developing our Five Year Energy Conservation and Demand Plan it is assumed that the current level of funding will continue at the same or higher dollar values.

The Hamilton-Wentworth District School Board currently has 104 elementary and secondary schools, with a total enrolment of 49,551 students. The chart below reflects the age and square footage of buildings in the HWDSB portfolio. Currently there are 74 buildings constructed prior to 1970.

Construction Year	Total Number of Buildings	Total Building Area (Includes Portables) (m ²)
Constructed Prior to 1970	74	429,090
Constructed 1970-1979	4	17,063
Constructed 1980-1989	4	14,796
Constructed 1990-1999	6	64,077
Constructed 2000+	16	105,102

Fig.1- Number of Buildings versus age range

The Hamilton-Wentworth District School Board endeavours, as it has in the past, to continue our commitment of reducing both its energy consumption and resulting associated generated greenhouse gases. We have a responsibility to reduce or eliminate unnecessary consumption as part of the community and moral responsibility to our students whom will inherit the planet.

Section 14: Conservation and Demand Management Plan

The Hamilton-Wentworth District School Board currently uses and continually upgrades a large variety of energy efficient Heating and Ventilation & Air Conditioning (HVAC) equipment. These include items such as fully-condensing boilers; advanced technology air handling equipment such as Heat Recovery Units & Energy Recovery Units; Roof Top Air Handlers with Economizers; Heat Pumps, and High Tech Chillers; and Variable Frequency Drives on pump and fan motors.

The school board has 100+ sites with varying levels of computerized Building Automation Systems (BAS). The BAS controls and monitors operation of a variety of items including HVAC and lighting. While providing proper Indoor Air Quality (IAQ) for our occupants, the BAS allows more flexible operation and scheduling of equipment.

Both exterior and interior lighting have seen many upgrades to more efficient means while maintaining an excellent learning environment for our Staff and Students. In addition a wide variety of lighting controls are used to reduce unnecessary electrical consumption. Such controls are motion detectors, daylight harvesting and BAS.

The HWDSB ensures the selection of building products used for both new construction or renovations are of a high standard as they relate to “R” insulation value. Examples of these are window glazing, wall & roof insulation, pipe insulation, and insulated exterior doors.

The HWDSB also endeavours to promote environmental stewardship amongst our schools by participation in the Ministry of **Education’s** Eco-School Program. The program for grades 1-12 students is intended to develop ecological literacy while engaging them in practices to become environmentally responsible citizens.

The HWDSB currently has rooftop photovoltaic solar panels installed at the Education Centre, one secondary school and 7 elementary schools, generating power back to the local distribution company hydro grid.

Currently the HWDSB is trialing a program of displaying energy usage on a monitor in a school lobby. The monitor, referred to as a “**Dashboard**”, is set up to display real time energy consumption, historical use and school eco messages. Elsewhere, this has been proven to be very engaging for students as they can become interactive with building energy use. We currently have real time energy consumption meters installed at approximately 25 of our schools.

2017 Long-Term Facilities Master Plan Update
Section 14: Conservation and Demand Management Plan

2) Energy Consumption and Greenhouse Gas Emissions

The following is the energy consumption data for the HWDSB from September 1, 2012 to August 31, 2013.

Total Electricity (kWh)	49,839,540.00
Total Natural Gas (m ³)	8,783,727.91
Total Thermal Energy (Giga Joules)	8769.6
Energy Intensity for the board (ekWh/ft ²)	19.27
Greenhouse Gas Emissions (kgCO ₂)	24,988,294.00

Fig. -2 The above is the baseline year for which the HWDSB 5 year energy and consumption plan will be benchmarked.

3) Energy Conservation Goals, Objectives & Results

The Hamilton-Wentworth District School Board has set a quantitative conservation goal of a 12% reduction in equivalent kilowatt hours used per square foot or ekWh/ft² over the five year implementation period. Ongoing reductions for the 5 year energy and consumption plan will be calculated utilizing as baseline, the 2012/2013 fiscal year, of a 19.27 ekWh/ft². The 5 year energy intensity target would be 16.96 ekWh/ft². Please see Appendix-A.

2017 Long-Term Facilities Master Plan Update

Section 14: Conservation and Demand Management Plan

Year	2012/2013 (ekWh/ft ²) (Baseline Year)	2014/2015 (ekWh/ft ²)	2015/2016 (ekWh/ft ²)	2016/2017 (ekWh/ft ²)	2017/2018 (ekWh/ft ²)	2018/2019 (ekWh/ft ²)	Quantitative Goal
Conservation Target Reduction in (%)		3	3	2	2	2	12
Energy Intensity Target	19.27	18.69	18.12	17.73	17.34	16.96	2.31

Fig. 3 - Yearly ekWh targets versus baseline

Energy Conservation Results (End of FY2016 Update)

In July 2014, Facilities Management submitted the Energy Conservation & Demand Management Plan for the period of FY2014 through FY2019 (<http://www.hwdsb.on.ca/wp-content/uploads/2013/06/HWDSB-Conservation-Demand-and-Management-Plan-2014-2019.pdf>) to the Ministry. In that plan, HWDSB committed to the following reductions in our overall energy intensity (equivalent kilowatt-hours consumed per square foot of building area):

Year	2012/2013 (ekWh/ft ²) (Baseline Year)	2014/2015 (ekWh/ft ²)	2015/2016 (ekWh/ft ²)	2016/2017 (ekWh/ft ²)	2017/2018 (ekWh/ft ²)	2018/2019 (ekWh/ft ²)	Quantitative Goal
Conservation Target Reduction in (%)		3	3	2	2	2	12
Energy Intensity Target	19.27	18.69	18.12	17.73	17.34	16.96	2.31

Using a baseline year of fiscal year 2013, HWDSB committed to, beginning in fiscal year 2015, an overall energy intensity reduction of between 2-3% per year up to the end of fiscal year 2019. At the end of fiscal year 2019, that plan stated that HWDSB should have reduced our overall energy intensity by a cumulative total of 12%.

The table below indicates our progress in that regard using raw data. With raw data, all factors are taken into account, including the weather, which we obviously have no control over.

2017 Long-Term Facilities Master Plan Update

Section 14: Conservation and Demand Management Plan

Hamilton-Wentworth District School Board - Energy Profile (Raw data)	FY2012	FY2013 (Baseline Year)	FY2014	FY2015	FY2016
Electrical Consumption for the board (kWh)	52,145,012.00	50,643,136.00	48,626,156.00	47,444,816.00	45,049,832.00
Total Electricity Budget (\$)	\$5,640,854.00	\$5,845,854.00	\$6,442,854.00	\$5,597,435.00	\$5,886,700.00
Total Electricity Cost (\$)	\$6,034,699.15	\$5,927,346.90	\$6,386,486.08	\$6,633,019.97	\$7,473,663.14
Electricity Cost per Unit (\$/kWh)	\$0.1157	\$0.1170	\$0.1313	\$0.1398	\$0.1659
Year-To-Year Electricity Cost Increase		1.13%	12.22%	6.45%	18.66%
Natural Gas Consumption for the board (m ³)	8,227,119.38	8,783,734.88	10,343,644.96	9,163,822.48	7,303,063.57
Total Natural Gas Budget (\$)	\$2,521,493.00	\$2,213,718.00	\$2,423,293.00	\$2,950,000.00	\$2,532,500.00
Total Natural Gas Cost (\$)	\$2,013,413.39	\$1,993,511.03	\$2,929,438.49	\$2,186,518.00	\$1,648,347.86
Natural Gas Cost per Unit (\$/cubic metre)	\$0.2447	\$0.2270	\$0.2832	\$0.2386	\$0.2257
Natural Gas Cost per Unit (\$/ekWh)	\$0.0235	\$0.0218	\$0.0272	\$0.0230	\$0.0217
Year-To-Year Natural Gas Cost Increase		-7.26%	24.79%	-15.75%	-5.41%
District Heat Consumption for the board (GJ)	6,247.08	8,770.32	8,330.04	10,565.28	8,511.96
Total District Heat Budget (\$)	\$213,839.00	\$143,839.00	\$143,839.00	\$145,000.00	\$142,100.00
Total District Heat Cost (\$)	\$191,283.25	\$110,925.35	\$137,275.62	\$126,824.58	\$118,687.64
District Heat Cost per Unit (\$/GJ)	\$30.62	\$12.65	\$16.48	\$12.00	\$13.94
District Heat Cost per Unit (\$/ekWh)	\$0.1102	\$0.0455	\$0.0593	\$0.0432	\$0.0502
Year-To-Year District Heat Cost Increase		-58.69%	30.30%	-27.16%	16.16%
Total Energy Consumption for the board (ekWh)	138,784,192.00	143,727,488.00	157,686,480.00	144,950,272.00	122,781,880.00
Energy Intensity for the board (ekWh/ft ²)	17.97	19.17	21.07	19.40	16.50
Year-To-Year Energy Intensity Reduction - Target		Baseline Year		3.00%	3.00%
Year-To-Year Energy Intensity Reduction - Actual		Baseline Year		-1.16%	14.92%
Year-To-Year Energy Intensity Reduction - Target (Cumulative)		Baseline Year		3.00%	6.00%
Year-To-Year Energy Intensity Reduction - Actual (Cumulative)		Baseline Year		-1.16%	13.76%
Energy per Student for the Board (ekWh)	3,097.45	3,128.75	3,474.33	2,938.73	2,316.60
Greenhouse Gas Emissions (kgCO ₂)	20,428,184.00	20,493,154.00	21,888,458.00	19,395,376.00	15,759,302.00
Emissions Intensity (kgCO ₂ /m ²)	28.47	29.43	31.48	27.94	22.80

Based on the data above, HWDSB has achieved an overall energy intensity reduction of 13.76%. This reduction exceeds the 6% target expected at the end of fiscal year 2016 by 130%.

In the next table below, the same consumption data is displayed, however, in this table, the data has been weather normalized. Weather normalization is a statistical process designed to remove the impact of abnormal or extreme weather conditions from historical load data. This means that after historical consumption data has been weather normalized, any residual reduction or increase in overall energy intensity from year to year can be directly attributed to the efforts of Facilities Management staff (i.e. energy conservation measures, school consolidations/closures, etc.).

The table below indicates our progress using data which has been weather normalized to fiscal year 2013 weather data from the Burlington Piers weather station.

2017 Long-Term Facilities Master Plan Update

Section 14: Conservation and Demand Management Plan

Hamilton-Wentworth District School Board - Energy Profile (Weather normalized to the Burlington Piers Weather Station using FY2013 data)	FY2012	FY2013 (Baseline Year)	FY2014	FY2015	FY2016
Electrical Consumption for the board (kWh)	48,539,480.00	49,692,880.00	46,879,484.00	45,517,508.00	44,664,580.00
Natural Gas Consumption for the board (m ³)	9,103,182.95	8,258,512.40	8,169,420.16	7,647,817.83	7,443,744.19
District Heat Consumption for the board (GJ)	7,414.07	8,759.62	7,304.21	7,173.32	7,199.74
Total Energy Consumption for the board (ekWh)	144,543,792.00	137,353,952.00	133,216,848.00	126,435,576.00	123,483,952.00
Energy Intensity for the board (ekWh/ft ²)	18.71	18.32	17.80	16.92	16.60
Year-To-Year Energy Intensity Reduction - Target		Baseline Year		3.00%	3.00%
Year-To-Year Energy Intensity Reduction - Actual		Baseline Year		7.67%	1.90%
Year-To-Year Energy Intensity Reduction - Target (Cumulative)		Baseline Year		3.00%	6.00%
Year-To-Year Energy Intensity Reduction - Actual (Cumulative)		Baseline Year		7.67%	9.57%
Energy per Student for the Board (ekWh)	3,225.99	2,990.00	2,935.18	2,563.37	2,329.85
Greenhouse Gas Emissions (kgCO ₂)	21,763,202.00	18,960,760.00	17,353,224.00	16,332,024.00	15,923,968.00
Emissions Intensity (kgCO ₂ /m ²)	30.33	27.23	24.96	23.52	23.04

Based on the data above, HWDSB has achieved an overall energy intensity reduction of 9.57%. This reduction exceeds the 6% target expected at the end of fiscal year 2016 by 60%.

This reduction in overall energy intensity can be directly attributed to the work initiated by Facilities Management in the Operations and Capital divisions.

The HWDSB energy intensity reduction target of 12% by the end of fiscal year 2019 is an extremely ambitious target. For reference, listed below are the reduction targets that other school boards in our area have set for themselves:

- a. District School Board Of Niagara (DSBN) - 5% reduction in energy consumption by the end of fiscal year 2019 (fiscal year 2012 baseline year)
- b. Hamilton-Wentworth Catholic District School Board (HWCDSD) - 2% reduction in energy consumption by the end of fiscal year 2019 (fiscal year 2012 baseline year)
- c. York Catholic District School Board (YCDSB) - 5% reduction in energy intensity by the end of fiscal year 2019 (1% reduction per year)
- d. Halton Catholic District School Board (HCDSB) - no quantifiable reduction target stated on their plan

Staff believe that the overall energy reduction target of 12% by the end of fiscal year 2019 remains achievable.

2017 Long-Term Facilities Master Plan Update

Section 14: Conservation and Demand Management Plan

4) Conservation and Demand Management Measures

A combination of measures will assist the HWDSB in reaching the reduction target in energy use. As shown below in Fig. 4 these include such areas as construction, operations, and occupant behaviour.

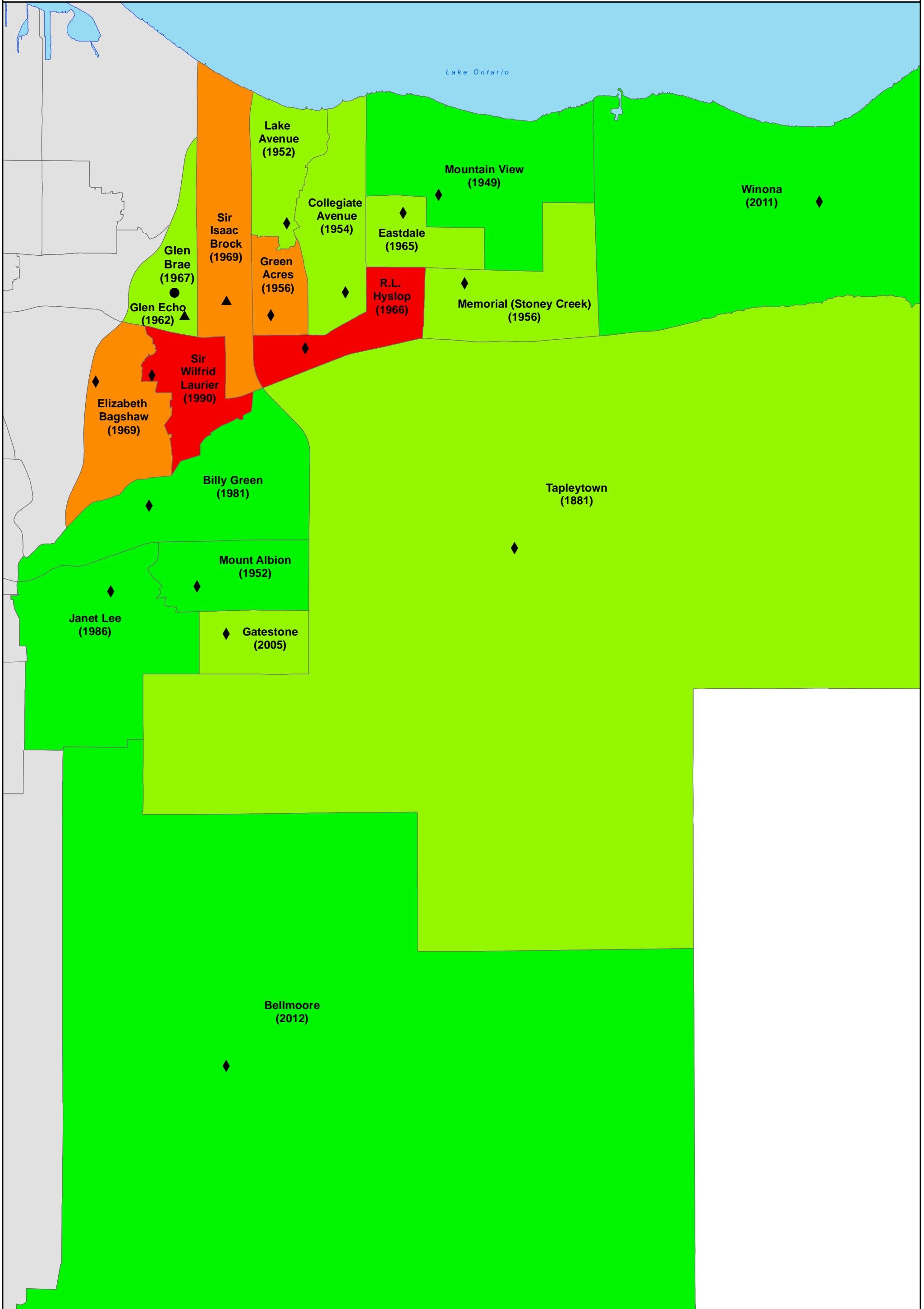
Conservation Goal											
		FY2013									
Total Building Area (includes portables) (m ²)		713,939									
Total Building Area (includes portables) (ft ²)		7,684,839									
Energy Consumption for the board (ekWh)		140,487,616									
	2014-15		2015-16		2016-17		2017-18		2018-19		2014-19
	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (ekWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (ekWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (ekWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (ekWh)	Estimated Cost of Implementation	Estimated Annual Energy Savings from all projects (ekWh)	Estimated Total Accumulated Energy Savings (ekWh)
Design, Construction and Retrofit Strategies	\$ 1,797,000	1,794,532	\$ 576,000	732,985	\$ 165,000	167,901	\$ 470,000	751,652	\$ 745,000	1,204,938	15,116,607
Operations and Maintenance Strategies Total	\$ 46,000	92,279	\$ 45,000	88,557	\$ 20,000	29,184	\$ 20,000	58,130	\$ 20,000	58,130	1,077,568
Occupant Behaviour Strategies Total	\$ 8,000	20,209	\$ 22,500	32,690	\$ 22,000	27,392	\$ 23,000	37,988	\$ 24,000	48,585	438,541
TOTAL	\$ 1,851,000	1,907,020	\$ 643,500	854,232	\$ 207,000	224,477	\$ 513,000	847,771	\$ 789,000	1,311,714	16,632,717
Percentage reduction		1		1		0		1		1	2.367855191
Conservation Goal (ekWh/m ²)		2.67		1.20		0.31		1.19		1.04	23.30
Conservation Goal (ekWh/ft ²)		0.248153546		0.1111581		0.029216362		0.1103173		0.17069	2.164354474

Fig. 4 Calculated Goal

In addition to the above planned work to lower levels of energy consumption, the HWDSB Facilities Management Team will be targeting the 15 schools with the highest energy intensity levels (ekWh). These will be identified based on our Utility Consumption Database (UCD) and Ministry of Energy annual reporting. Step one will be an ASHRAE Level One audit to determine a strategy for reducing consumption at each of the sites. Outcomes from these reports could provide a variety of recommendations, from equipment replacement, increased insulation levels, suggested changes to occupant behaviours, or perhaps a re-commissioning of the entire HVAC & BAS system within site.

Further reductions in HWDSB GHGs will come as result of a reduction in surplus space from currently approved and any future potential school consolidations or closures. As schools are closed, operation and energy funding for those sites will be reinvested in remaining sites.

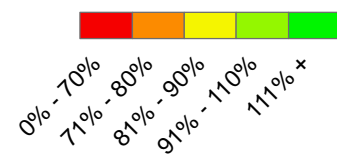
Family of Schools 1: Elementary School Utilization Rates 2016



**Family of Schools 1 - Total Excess Pupil Places:
Approx. -159**

The number in brackets after the school name is the date of original construction

Under to Over Utilization



- ▲ Jr Elementary School
- ◆ K-8 School
- Middle School



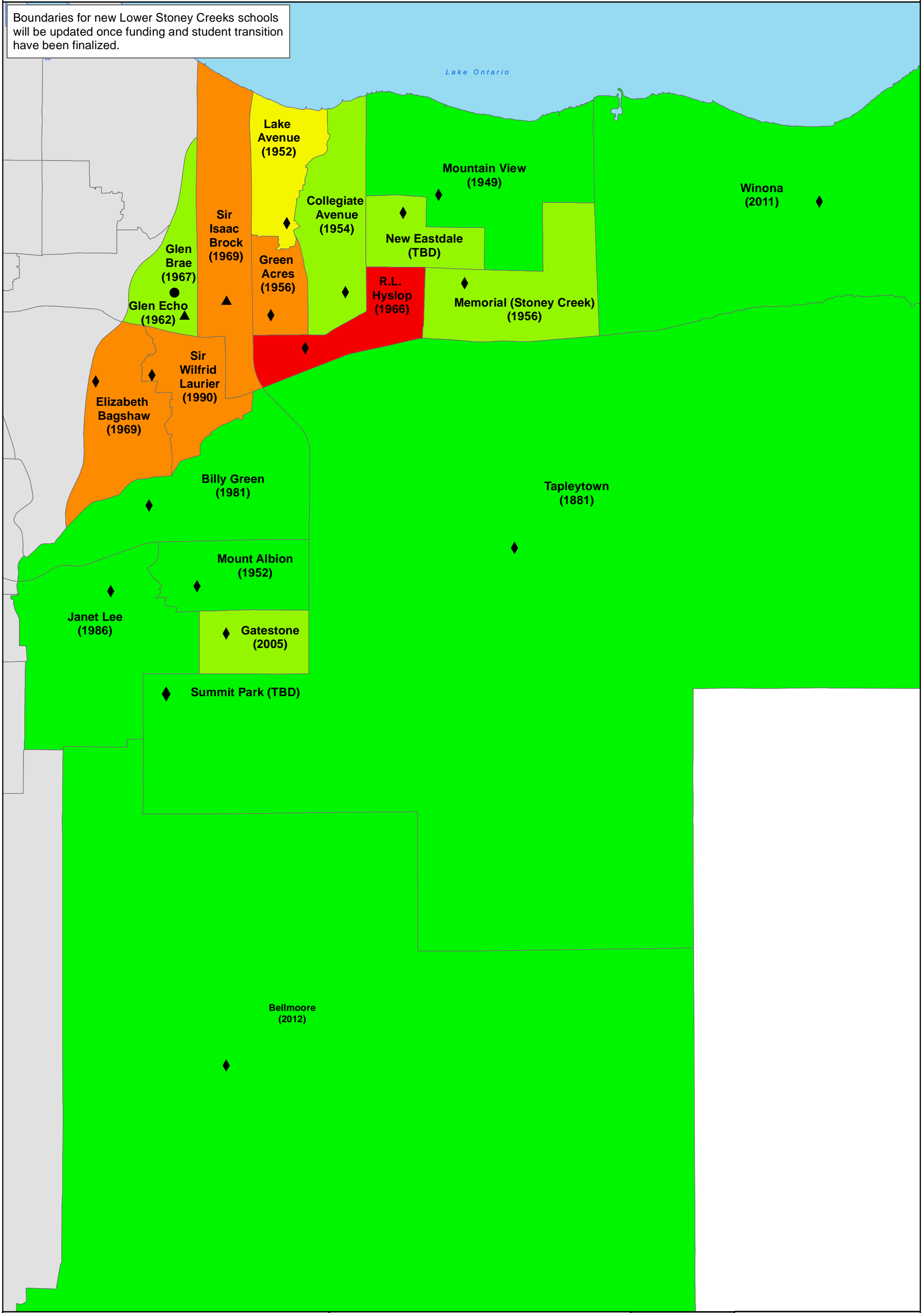
Date: 2017-04-28



Hamilton-Wentworth District School Board:
Accommodation and Planning Division

Family of Schools 1: Elementary School Utilization Rates 2021

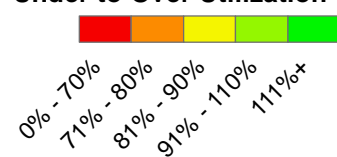
Boundaries for new Lower Stoney Creeks schools will be updated once funding and student transition have been finalized.



Family of Schools 1 - Total Excess Pupil Places:
Approx. -848

The number in brackets after the school name is the date of original construction

Under to Over Utilization



- ▲ Jr Elementary School
- ◆ K-8 School
- Middle School



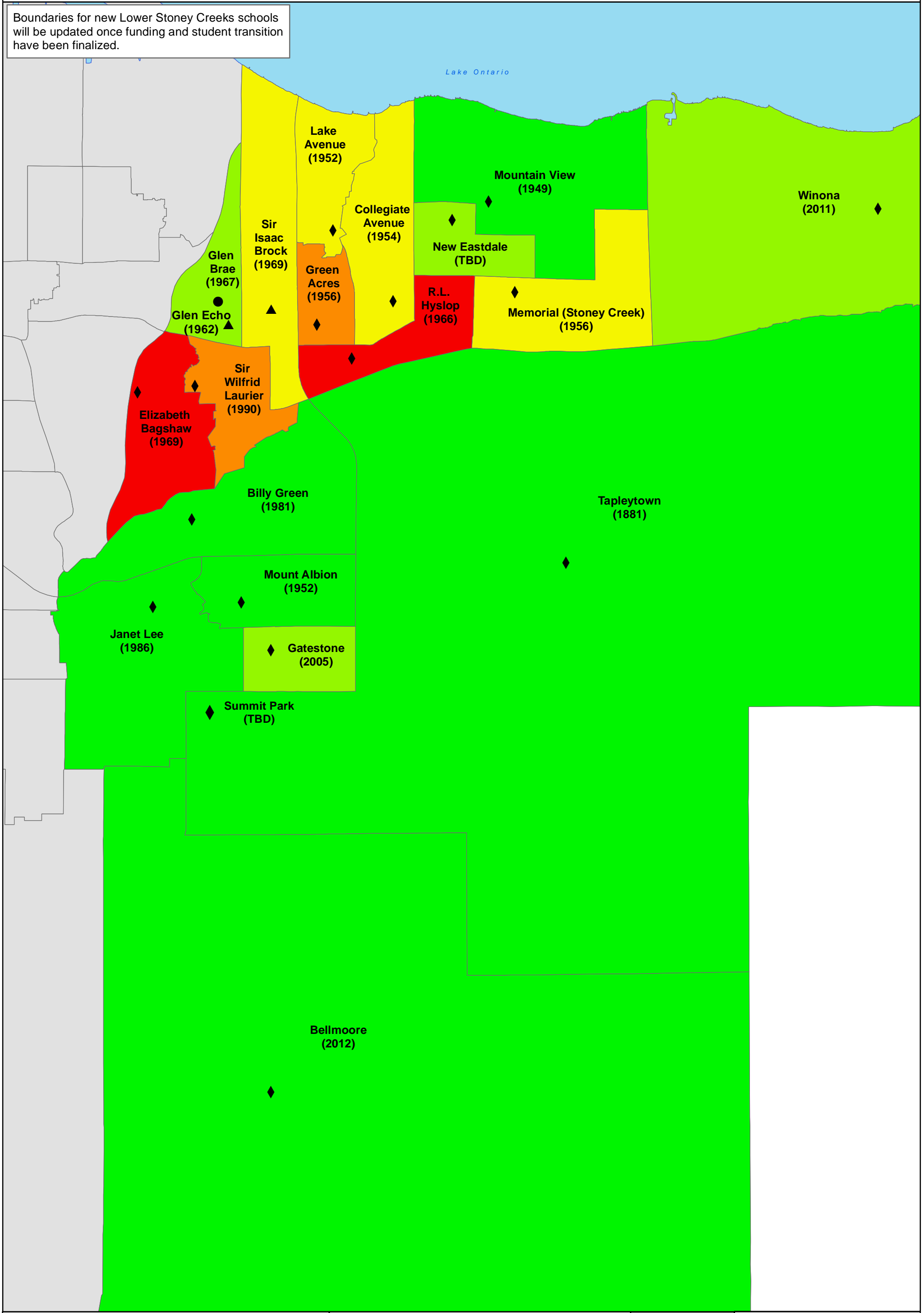
Date: 2017-05-01



Hamilton-Wentworth District School Board:
Accommodation and Planning Division

Family of Schools 1: Elementary School Utilization Rates 2026

Boundaries for new Lower Stoney Creeks schools will be updated once funding and student transition have been finalized.



Family of Schools 1 - Total Excess Pupil Places:
Approx. -939

The number in brackets after the school name is the date of original construction

Under to Over Utilization

- ▲ Jr Elementary School
- ◆ K-8 School
- Middle School

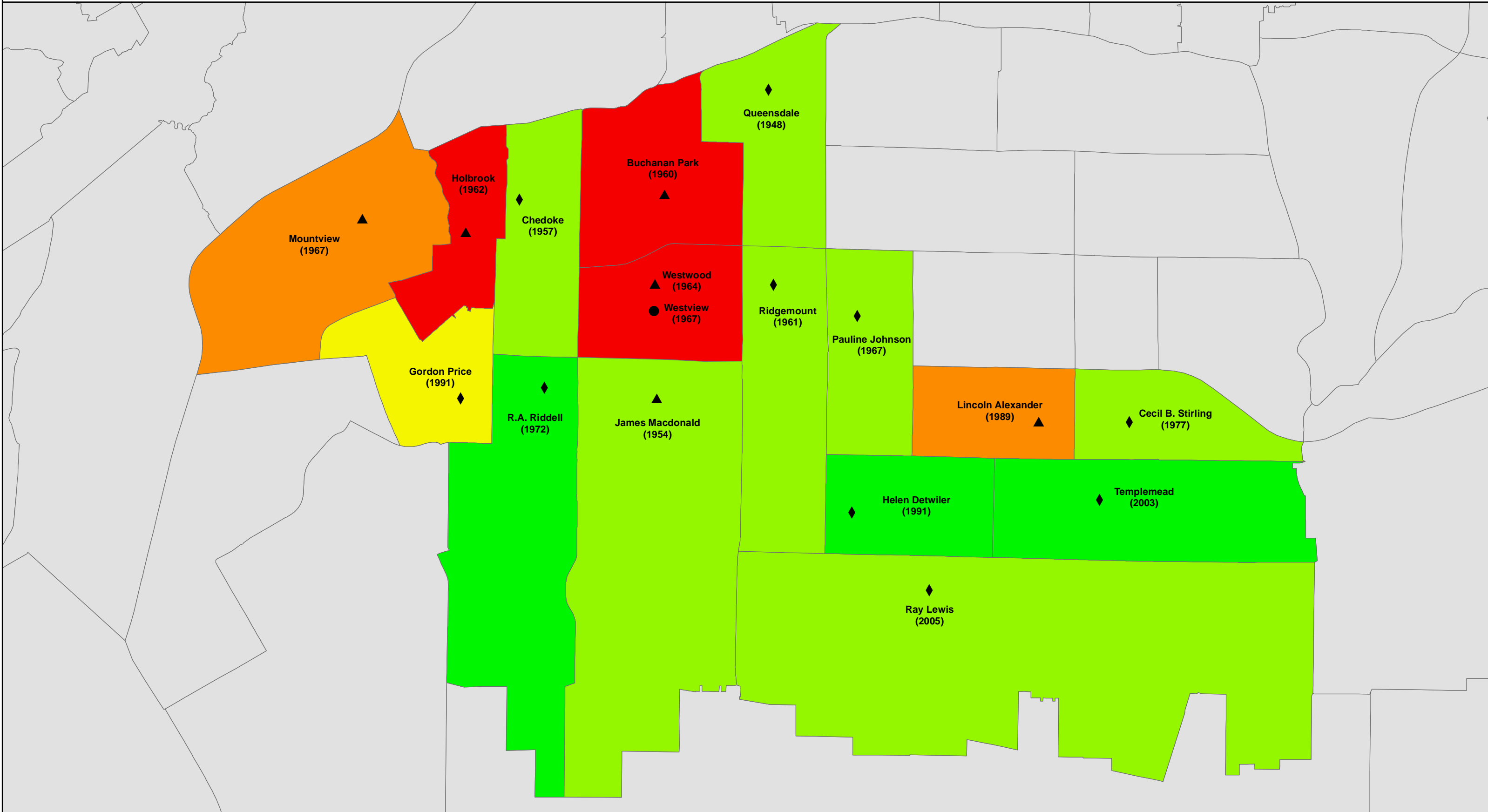
HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

Date: 2017-05-01

Planning & Accommodation

Hamilton-Wentworth District School Board:
 Accommodation and Planning Division

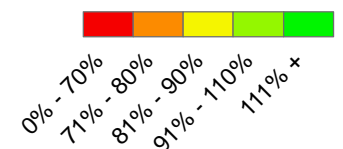
Family of Schools 2: Elementary School Utilization Rates 2016



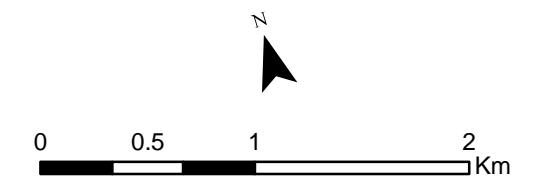
Family of Schools 2 - Total Excess Pupil Places: Approx. 395

The number in brackets after the school name is the date of original construction

Under to Over Utilization



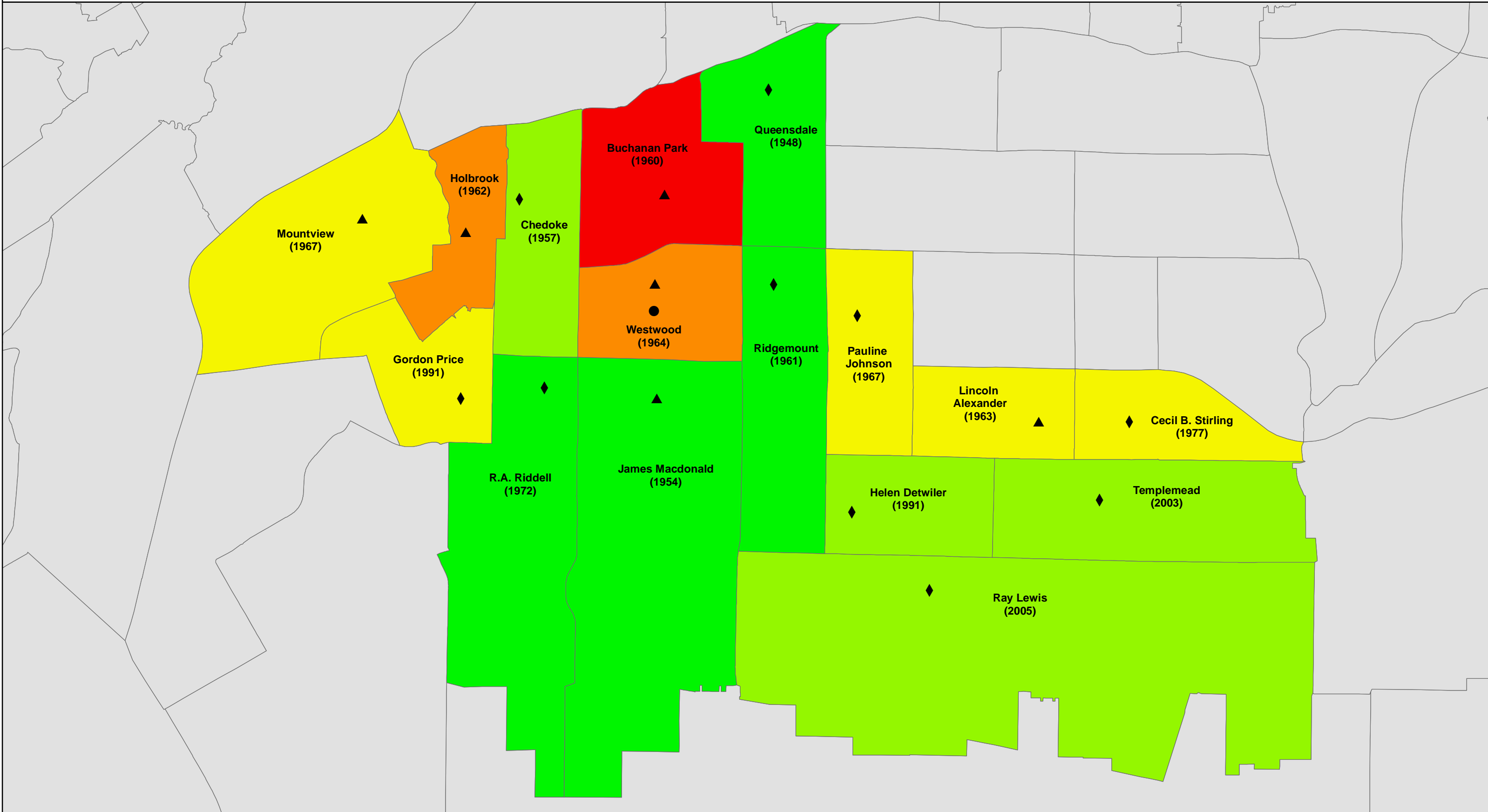
- ▲ Jr Elementary School
- ◆ K-8 School
- Middle School



HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD
Date: 2017-04-11

Planning & Accommodation
Hamilton-Wentworth District School Board: Accommodation and Planning Division

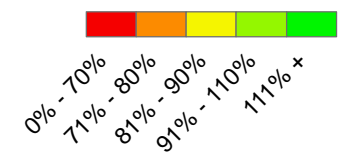
Family of Schools 2: Elementary School Utilization Rates 2021



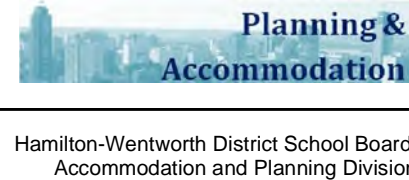
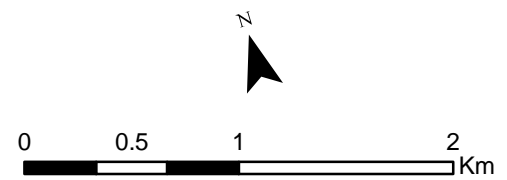
Family of Schools 2 - Total Excess Pupil Places: Approx. 246

The number in brackets after the school name is the date of original construction

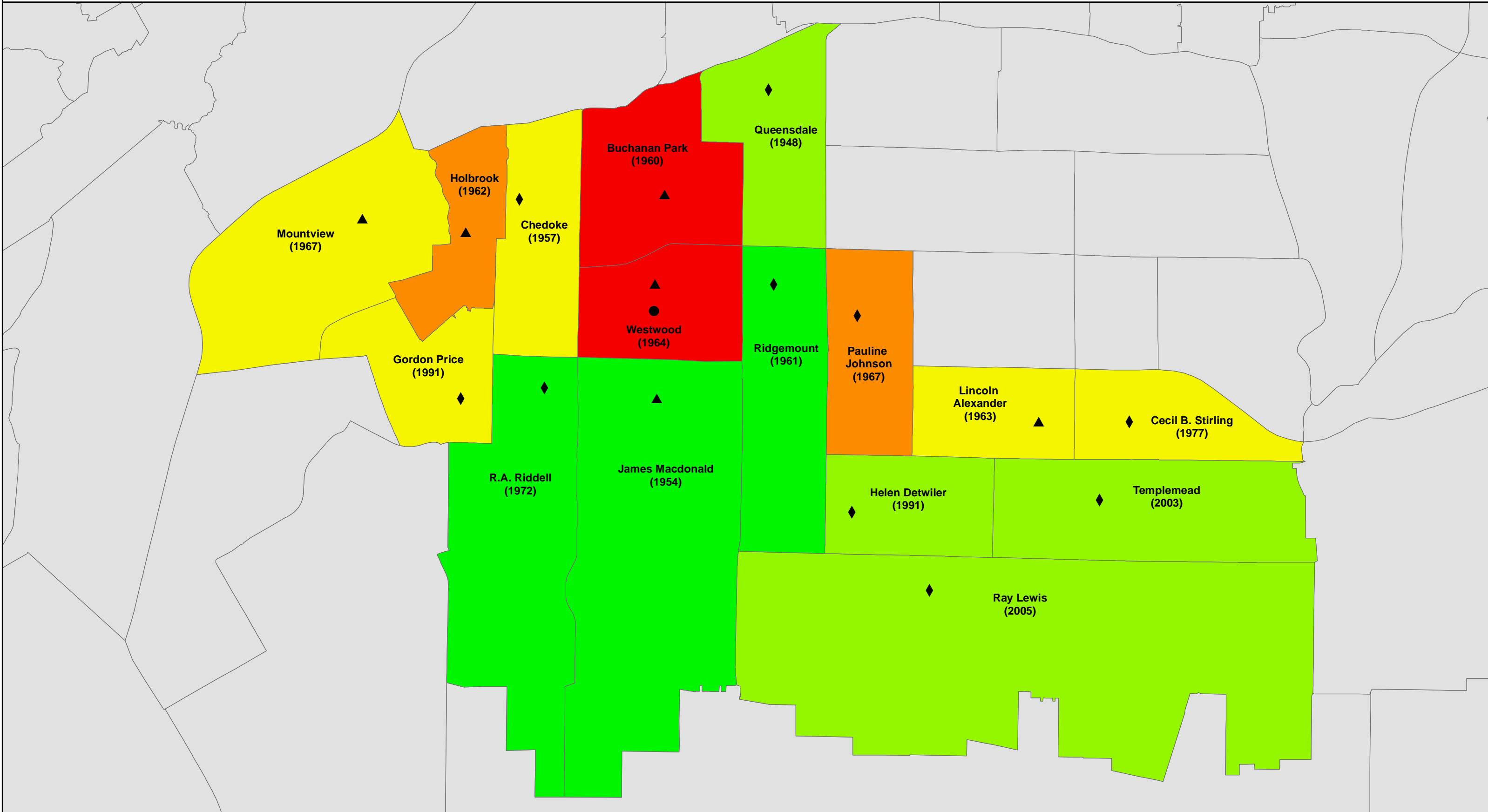
Under to Over Utilization



- ▲ Jr Elementary School
- ◆ K-8 School
- Middle School



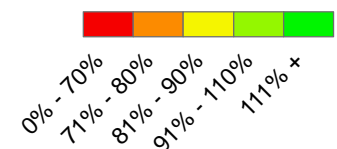
Family of Schools 2: Elementary School Utilization Rates 2026



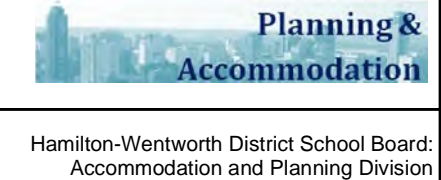
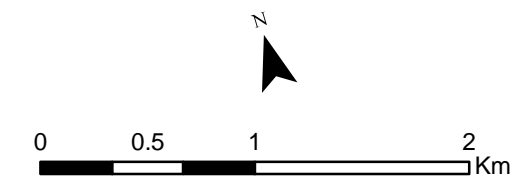
Family of Schools 2 - Total Excess Pupil Places: Approx. 291

The number in brackets after the school name is the date of original construction

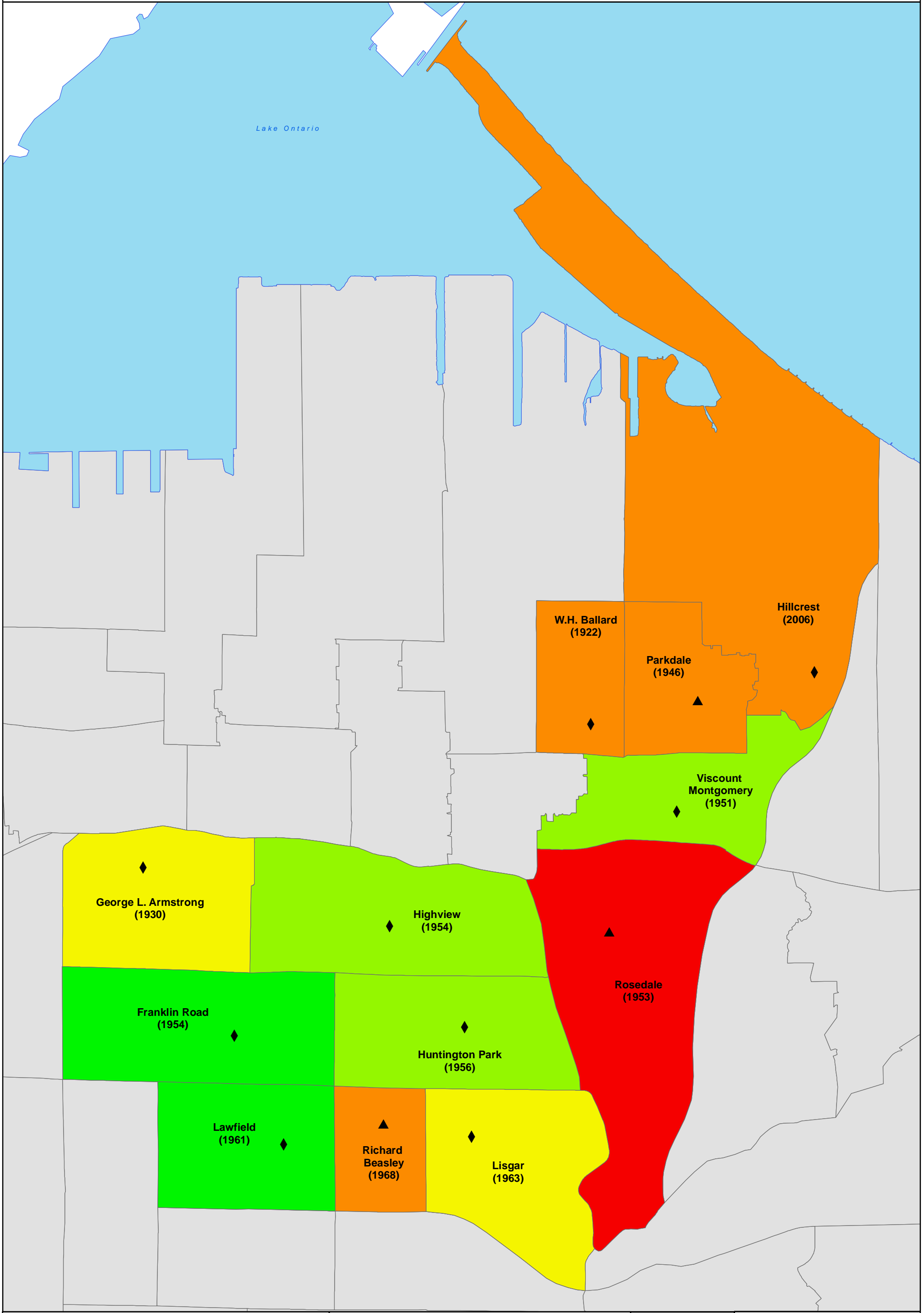
Under to Over Utilization



- ▲ Jr Elementary School
- ◆ K-8 School
- Middle School



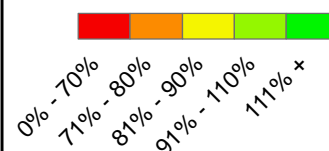
Family of Schools 3: Elementary School Utilization Rates 2016



**Family of Schools 3 - Total Excess Pupil Places:
Approx. 952**

The number in brackets after the school name is the date of original construction

Under to Over Utilization



- ▲ Jr Elementary School
- ◆ K-8 School
- Middle School



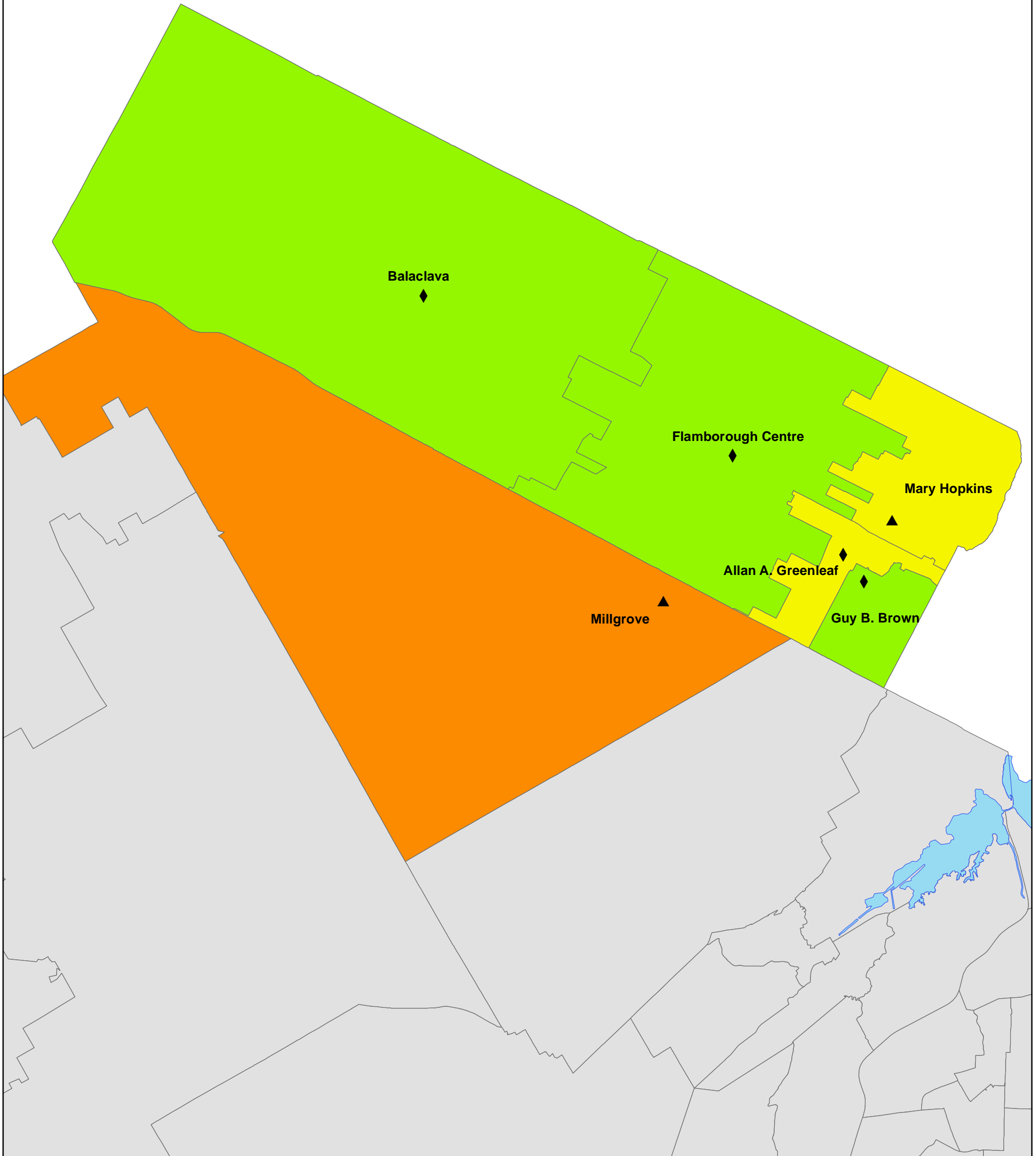
Date: 2017-05-01

Planning & Accommodation

Hamilton-Wentworth District School Board:
Accommodation and Planning Division

Family of Schools 3: Waterdown - Elementary School Utilization Rates 2016

Lake Ontario

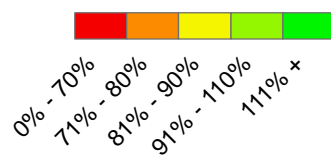


**Family of Schools 3 - Total Excess Pupil Places:
Approx. 952**

*This is the total number of excess pupil places for all of Family of Schools 3.

The number in brackets after the school name is the date of original construction

Under to Over Utilization



- ▲ Jr Elementary School
- ◆ K-8 School
- Middle School

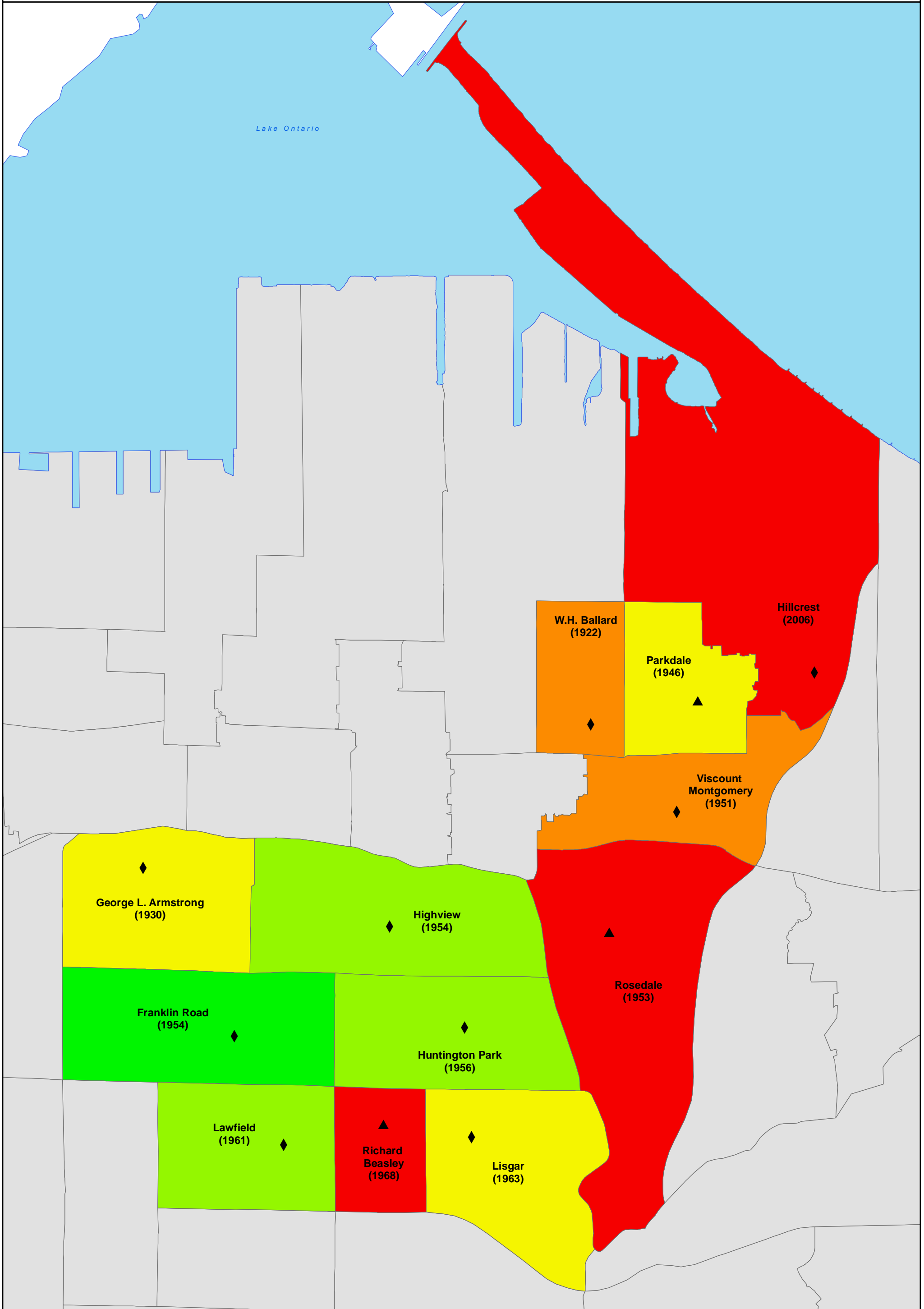


Date: 2017-05-01



Hamilton-Wentworth District School Board:
Accommodation and Planning Division

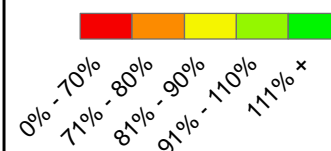
Family of Schools 3: Elementary School Utilization Rates 2021



**Family of Schools 3 - Total Excess Pupil Places:
Approx. 687**

The number in brackets after the school name is the date of original construction

Under to Over Utilization



- ▲ Jr Elementary School
- ◆ K-8 School
- Middle School



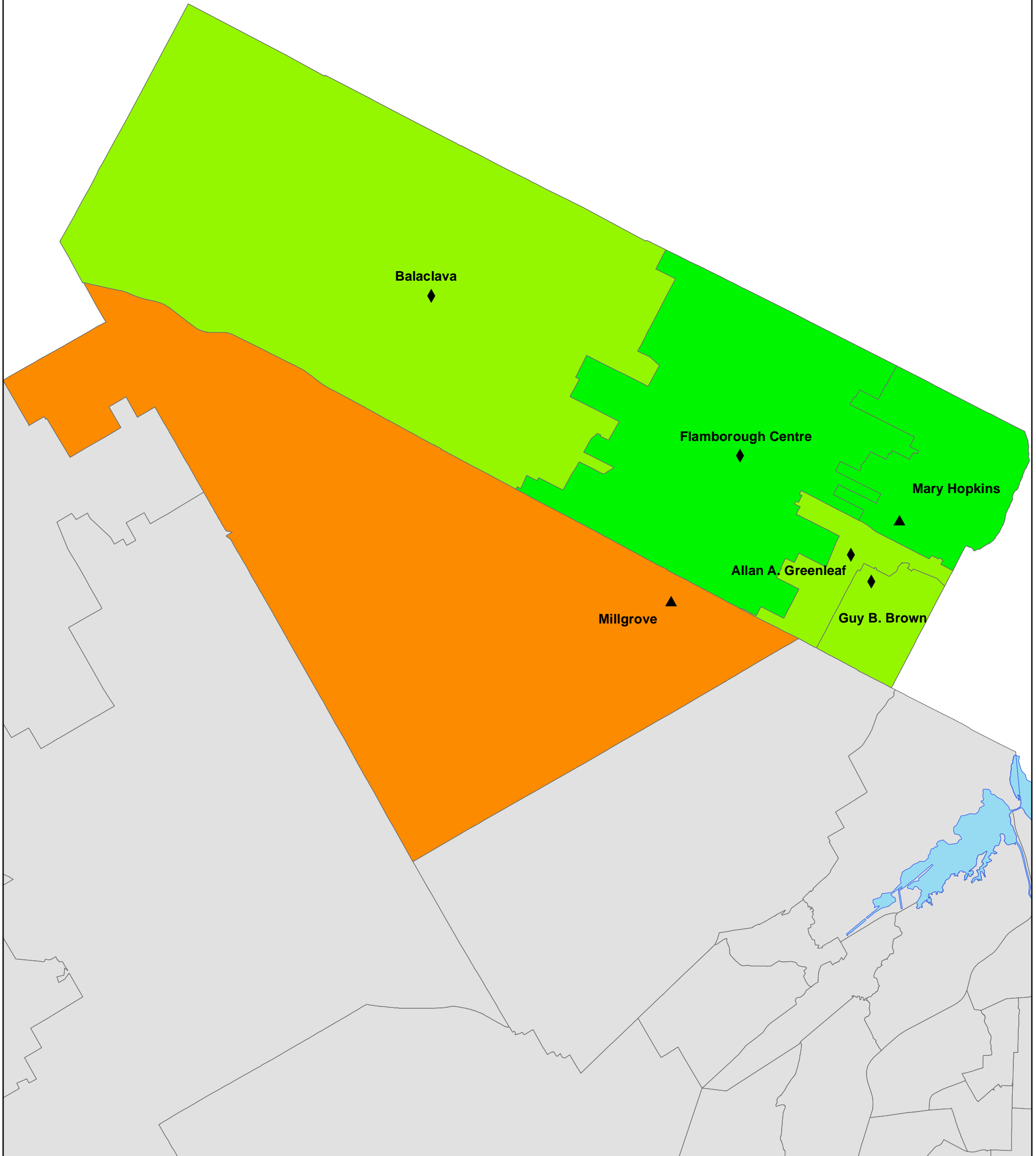
Date: 2017-05-01

Planning & Accommodation

Hamilton-Wentworth District School Board:
Accommodation and Planning Division

Family of Schools 3: Waterdown - Elementary School Utilization Rates 2021

Lake Ontario

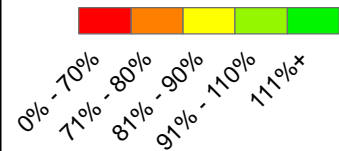


**Family of Schools 3 - Total Excess Pupil Places:
Approx. 687**

*This is the total number of excess pupil places for all of Family of Schools 3.

The number in brackets after the school name is the date of original construction

Under to Over Utilization



- ▲ Jr Elementary School
- ◆ K-8 School
- Middle School

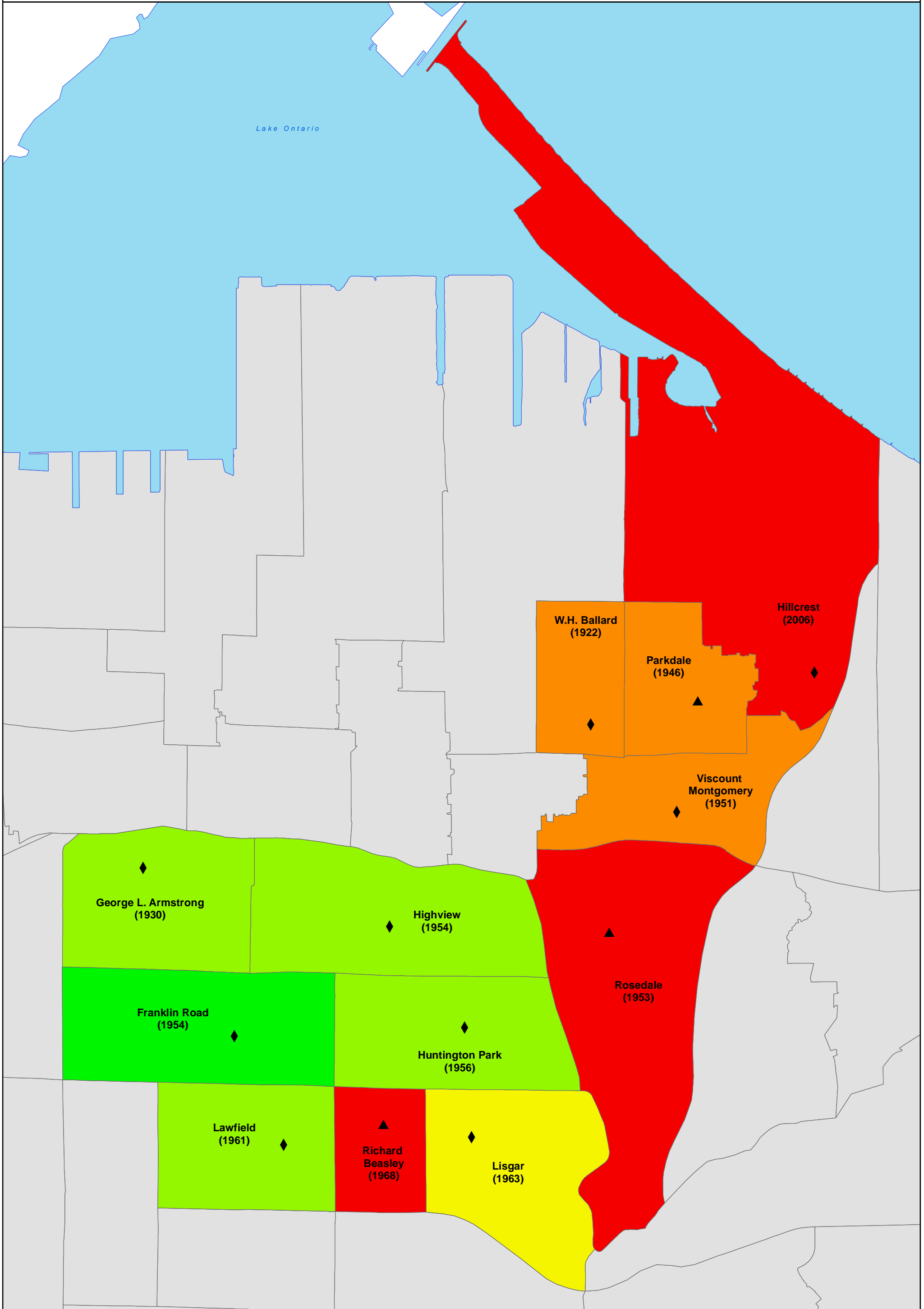


Date: 2017-05-01

Planning & Accommodation

Hamilton-Wentworth District School Board:
Accommodation and Planning Division

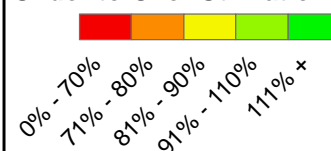
Family of Schools 3: Elementary School Utilization Rates 2026



Family of Schools 3 - Total Excess Pupil Places:
Approx. 720

The number in brackets after the school name is the date of original construction

Under to Over Utilization



- ▲ Jr Elementary School
- ◆ K-8 School
- Middle School



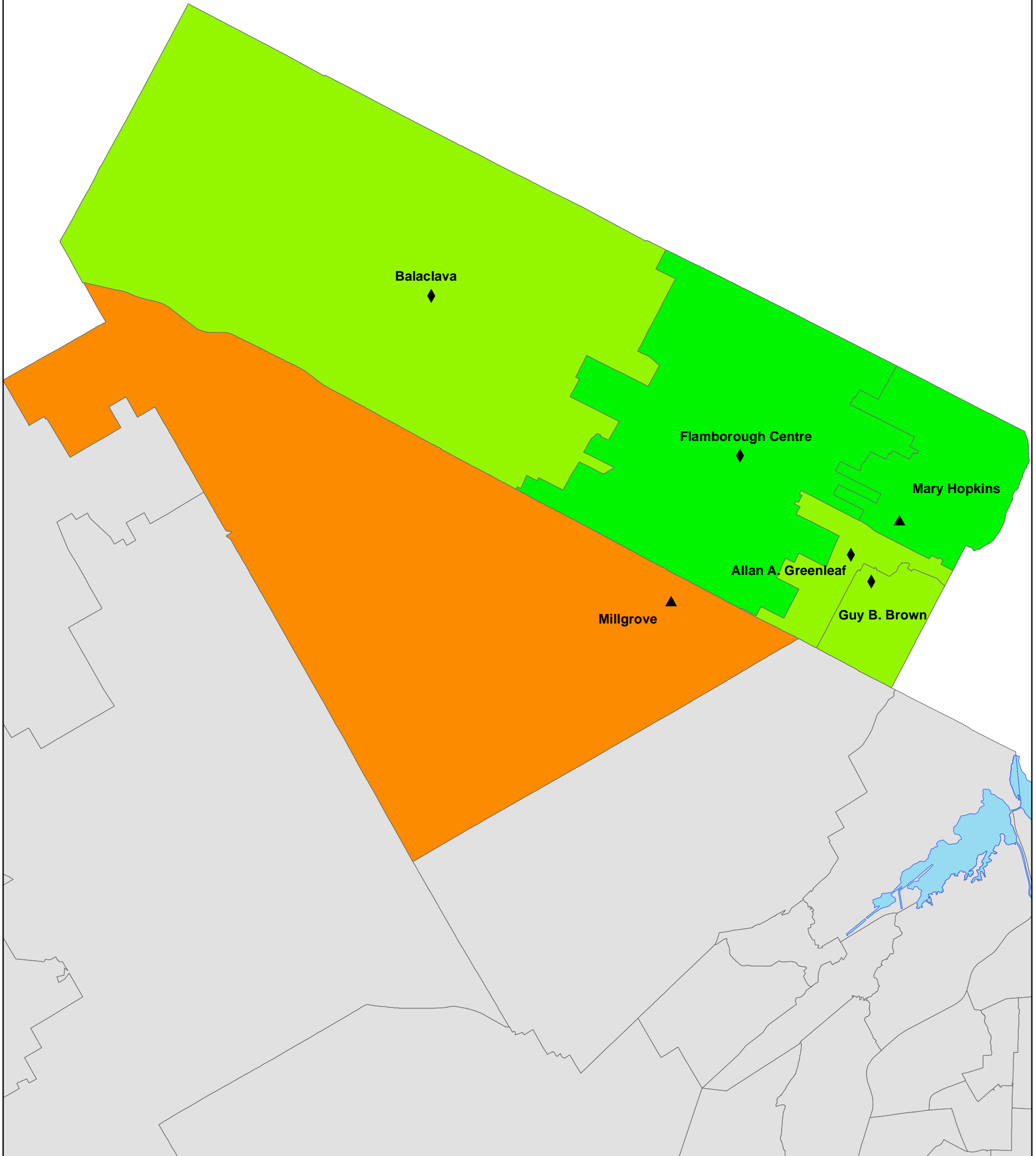
Date: 2017-04-10

Planning & Accommodation

Hamilton-Wentworth District School Board:
Accommodation and Planning Division

Family of Schools 3: Waterdown - Elementary School Utilization Rates 2026

Lake Ontario

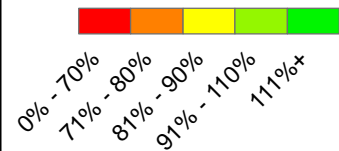


**Family of Schools 3 - Total Excess Pupil Places:
Approx. 720**

*This is the total number of excess pupil places for all of Family of Schools 3.

The number in brackets after the school name is the date of original construction

Under to Over Utilization



- ▲ Jr Elementary School
- ◆ K-8 School
- Middle School

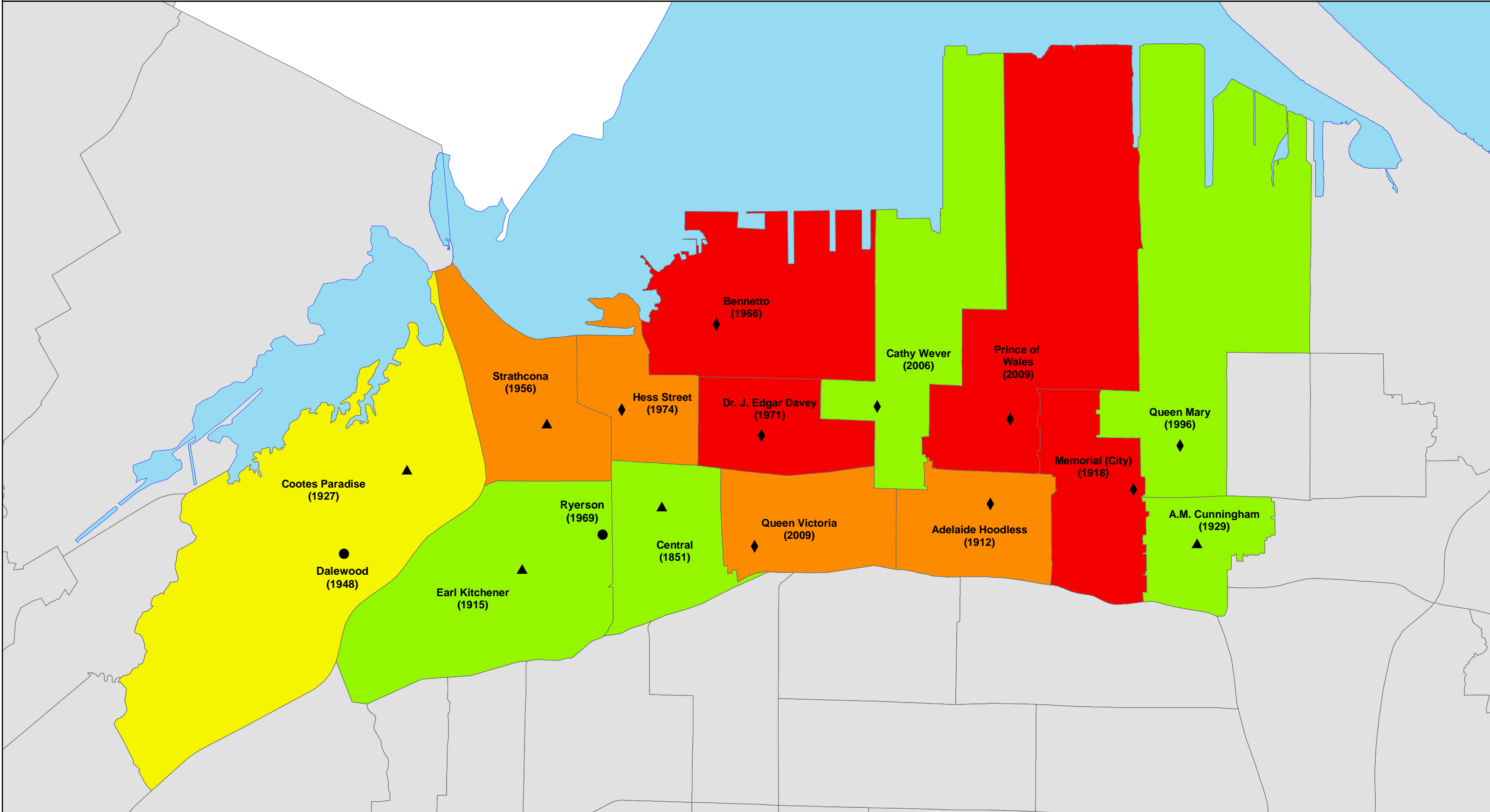


Date: 2017-05-01

Planning & Accommodation

Hamilton-Wentworth District School Board:
Accommodation and Planning Division

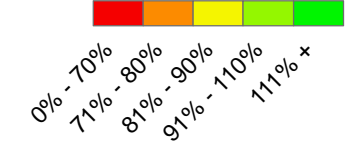
Family of Schools 4: Elementary School Utilization Rates 2016



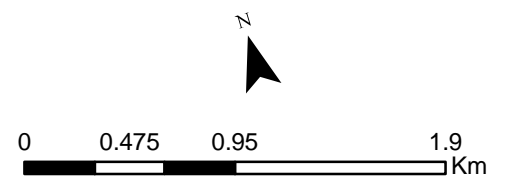
Family of Schools 4 - Total Excess Pupil Places: Approx. 1548

The number in brackets after the school name is the date of original construction

Under to Over Utilization



- ▲ Jr Elementary School
- ◆ K-8 School
- Middle School



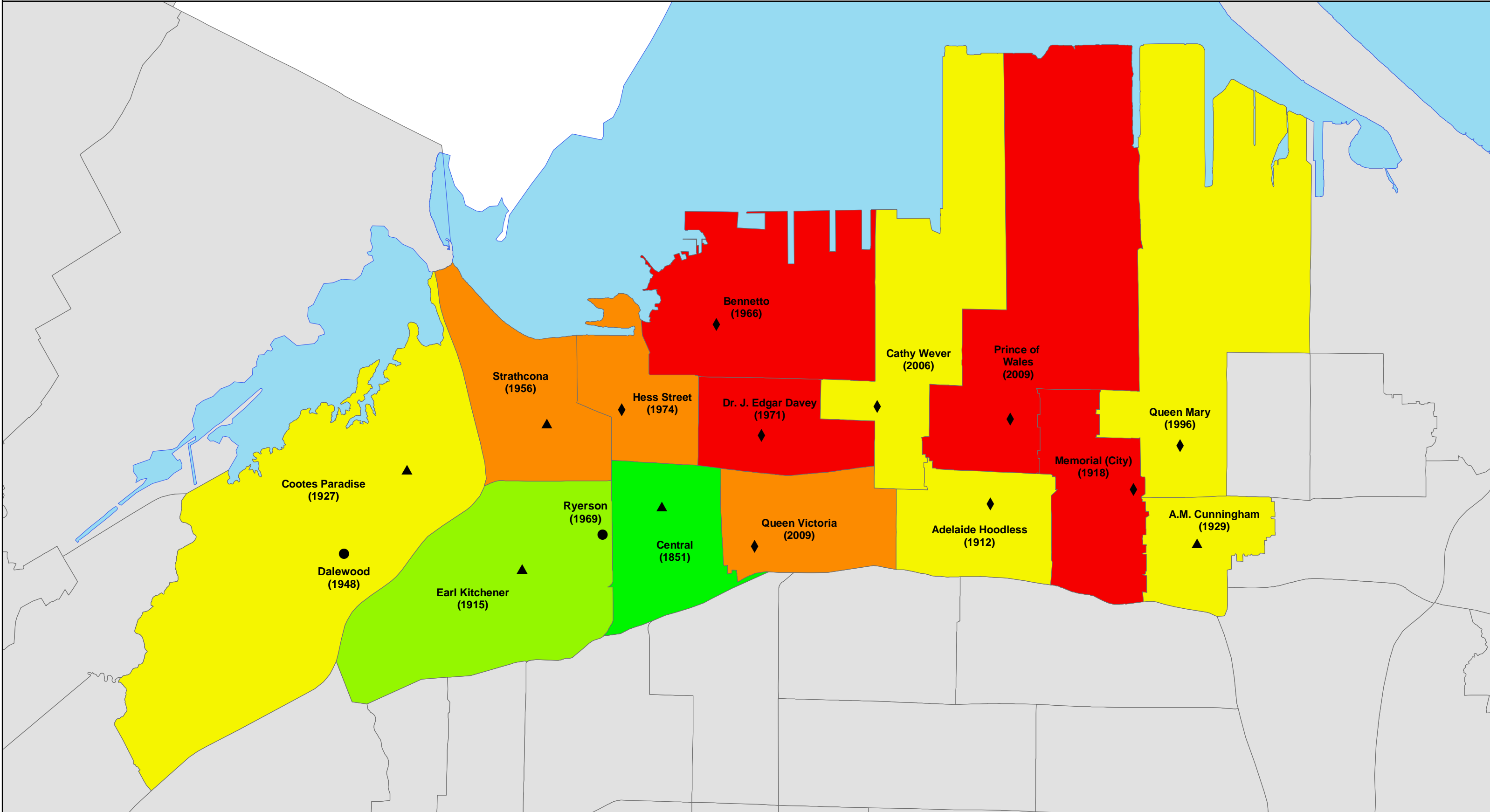
HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD

Date: 2017-05-01

Planning & Accommodation

Hamilton-Wentworth District School Board: Accommodation and Planning Division

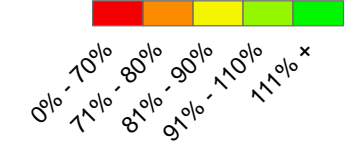
Family of Schools 4: Elementary School Utilization Rates 2021



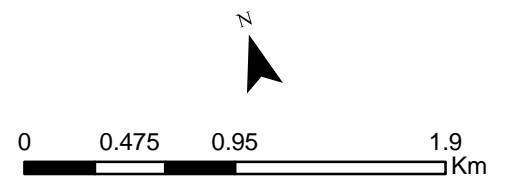
Family of Schools 4 - Total Excess Pupil Places: Approx. 1876

The number in brackets after the school name is the date of original construction

Under to Over Utilization



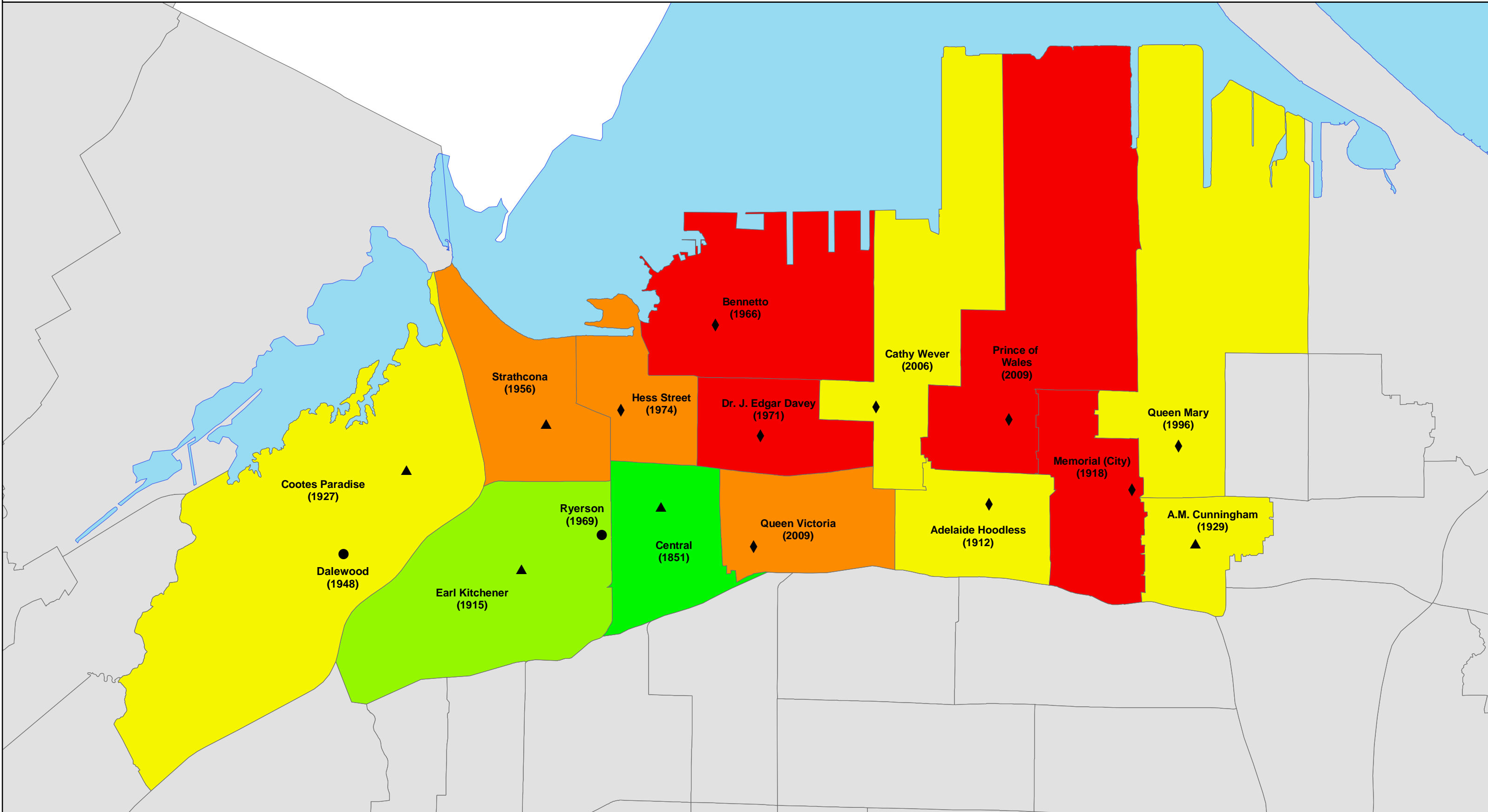
- ▲ Jr Elementary School
- ◆ K-8 School
- Middle School



HAMILTON-WENTWORTH DISTRICT SCHOOL BOARD
Date: 2017-05-01

Planning & Accommodation
Hamilton-Wentworth District School Board: Accommodation and Planning Division

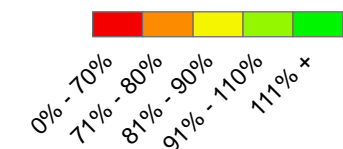
Family of Schools 4: Elementary School Utilization Rates 2026



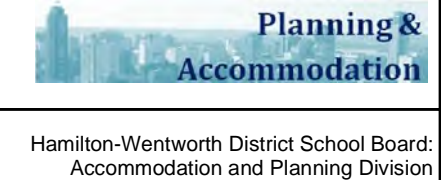
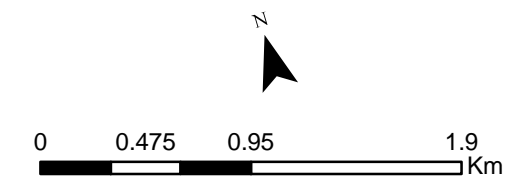
Family of Schools 4 - Total Excess Pupil Places: Approx. 2080

The number in brackets after the school name is the date of original construction

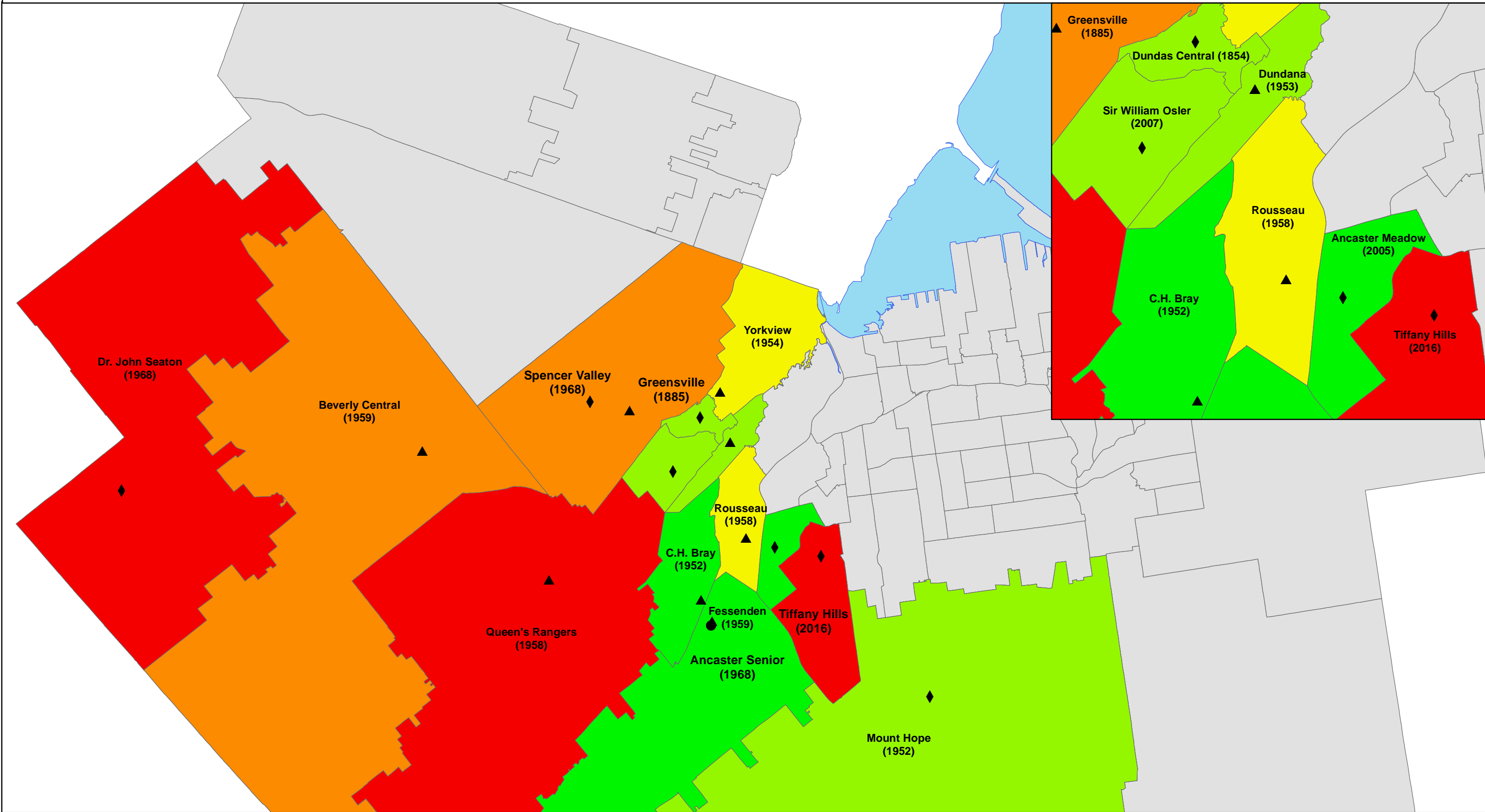
Under to Over Utilization



- ▲ Jr Elementary School
- ◆ K-8 School
- Middle School



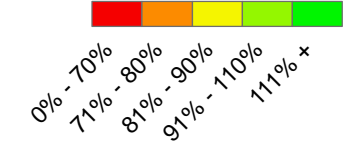
Family of Schools 5: Elementary School Utilization Rates 2016



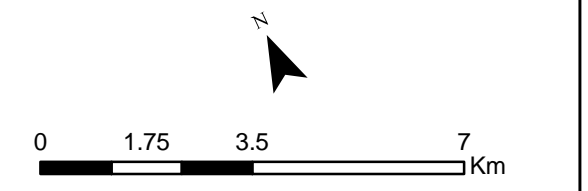
Family of Schools 5 - Total Excess Pupil Places: Approx. 480

The number in brackets after the school name is the date of original construction

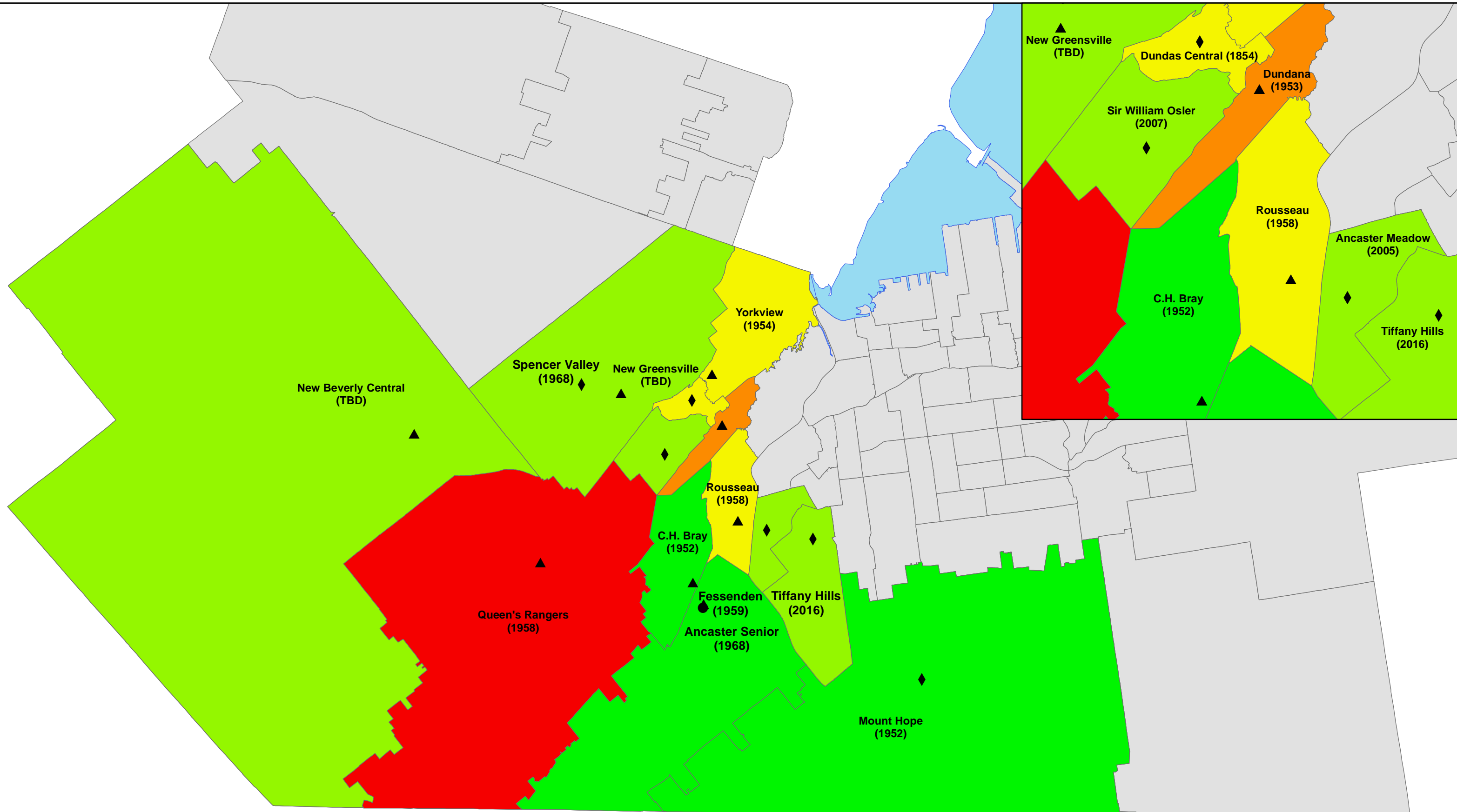
Under to Over Utilization



- ▲ Jr Elementary School
- ◆ K-8 School
- Middle School



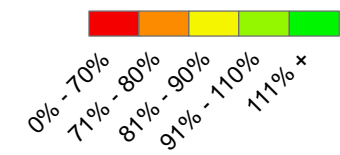
Family of Schools 5: Elementary School Utilization Rates 2021



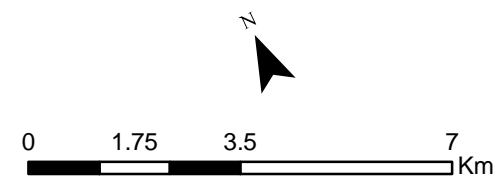
Family of Schools 5 - Total Excess Pupil Places: Approx. 265

The number in brackets after the school name is the date of original construction

Under to Over Utilization



- ▲ Jr Elementary School
- ◆ K-8 School
- Middle School

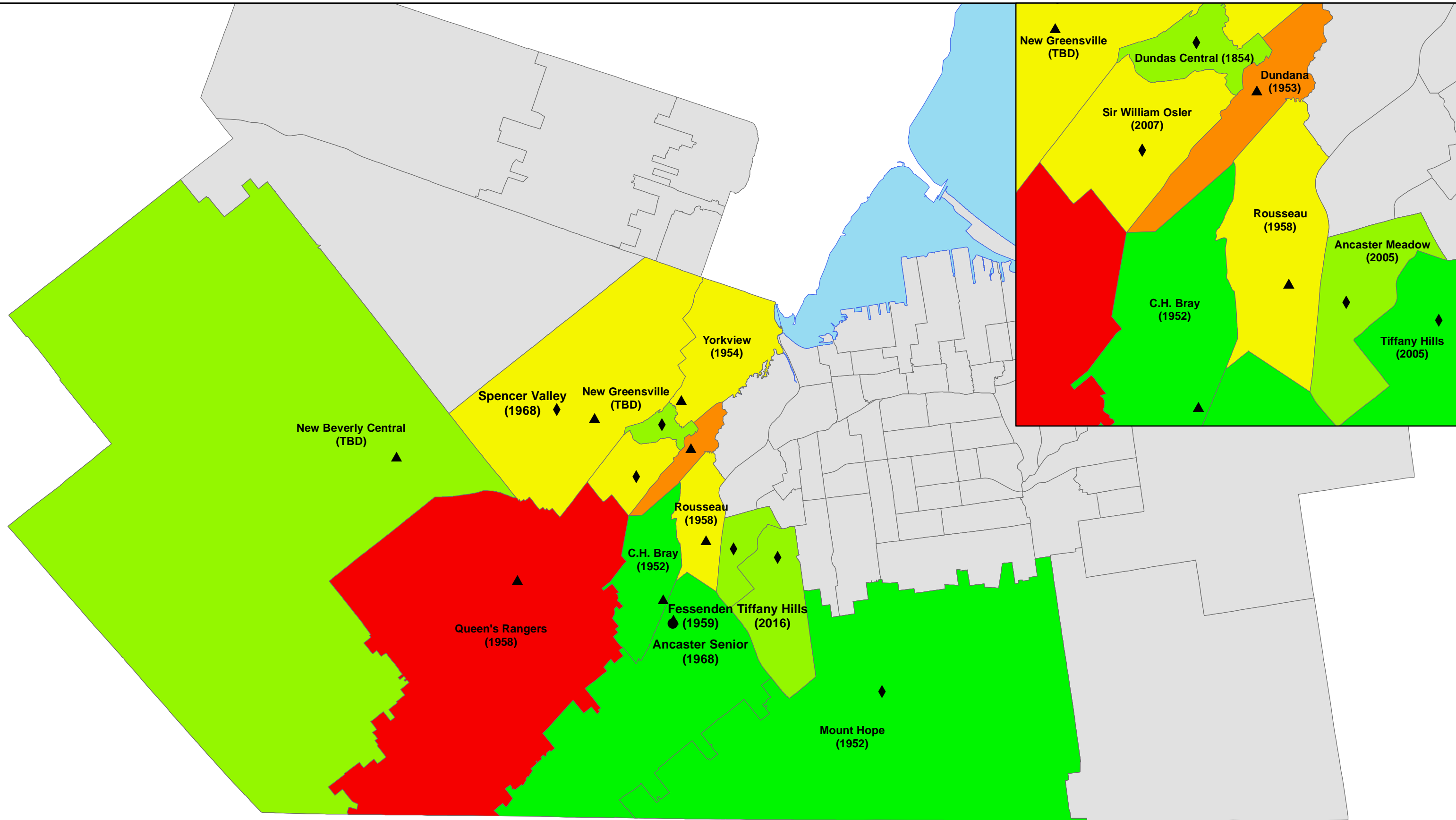


Date: 2017-05-01



Hamilton-Wentworth District School Board:
Accommodation and Planning Division

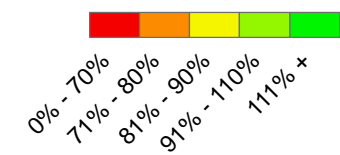
Family of Schools 5: Elementary School Utilization Rates 2026



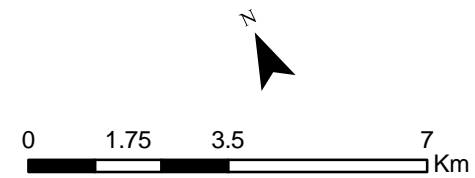
Family of Schools 5 - Total Excess Pupil Places: Approx. 262

The number in brackets after the school name is the date of original construction

Under to Over Utilization



- ▲ Jr Elementary School
- ◆ K-8 School
- Middle School

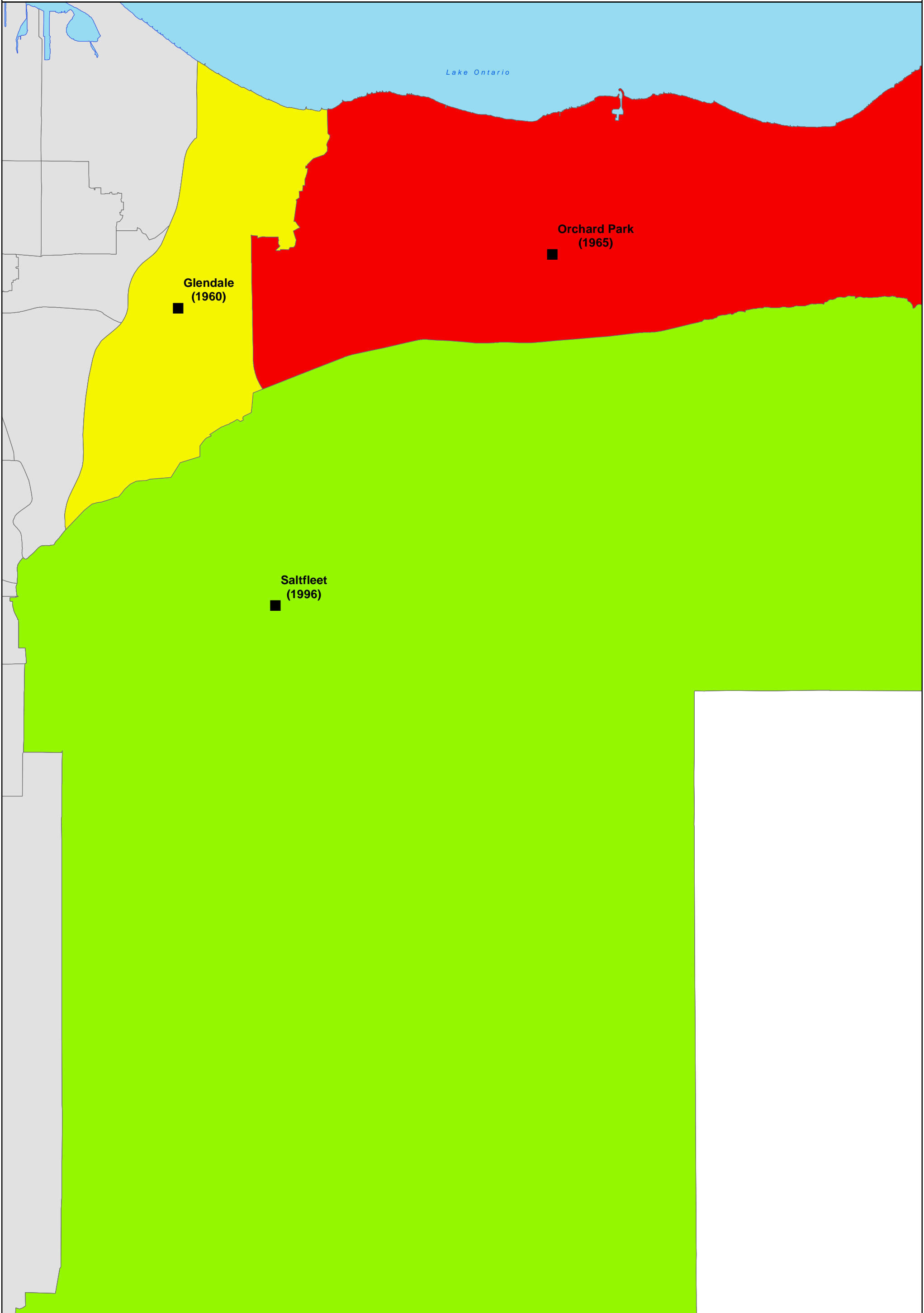


Date: 2017-05-01



Hamilton-Wentworth District School Board:
Accommodation and Planning Division

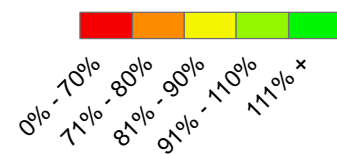
Family of Schools 1: Secondary School Utilization Rates 2016



**Family of Schools 1 - Total Excess Pupil Places:
Approx. 554**

The number in brackets after the school name is the date of original construction

Under to Over Utilization



■ Secondary School



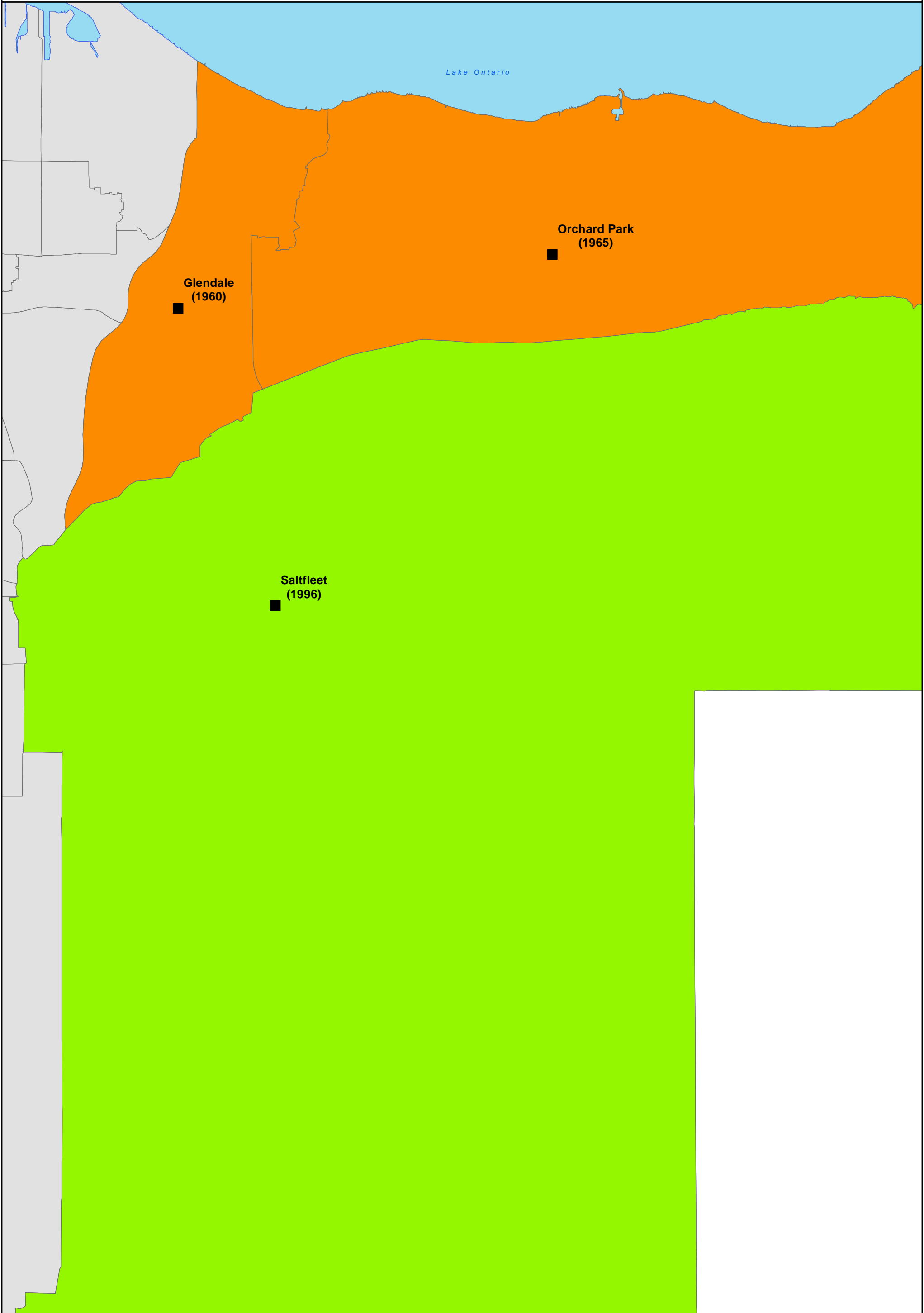
Date: 2017-05-01



Planning & Accommodation

Hamilton-Wentworth District School Board:
Accommodation and Planning Division

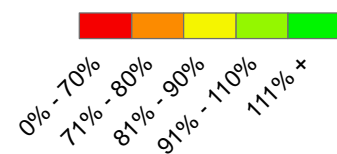
Family of Schools 1: Elementary School Utilization Rates 2021



**Family of Schools 1 - Total Excess Pupil Places:
Approx. 444**

The number in brackets after the school name is the date of original construction

Under to Over Utilization



■ Secondary School

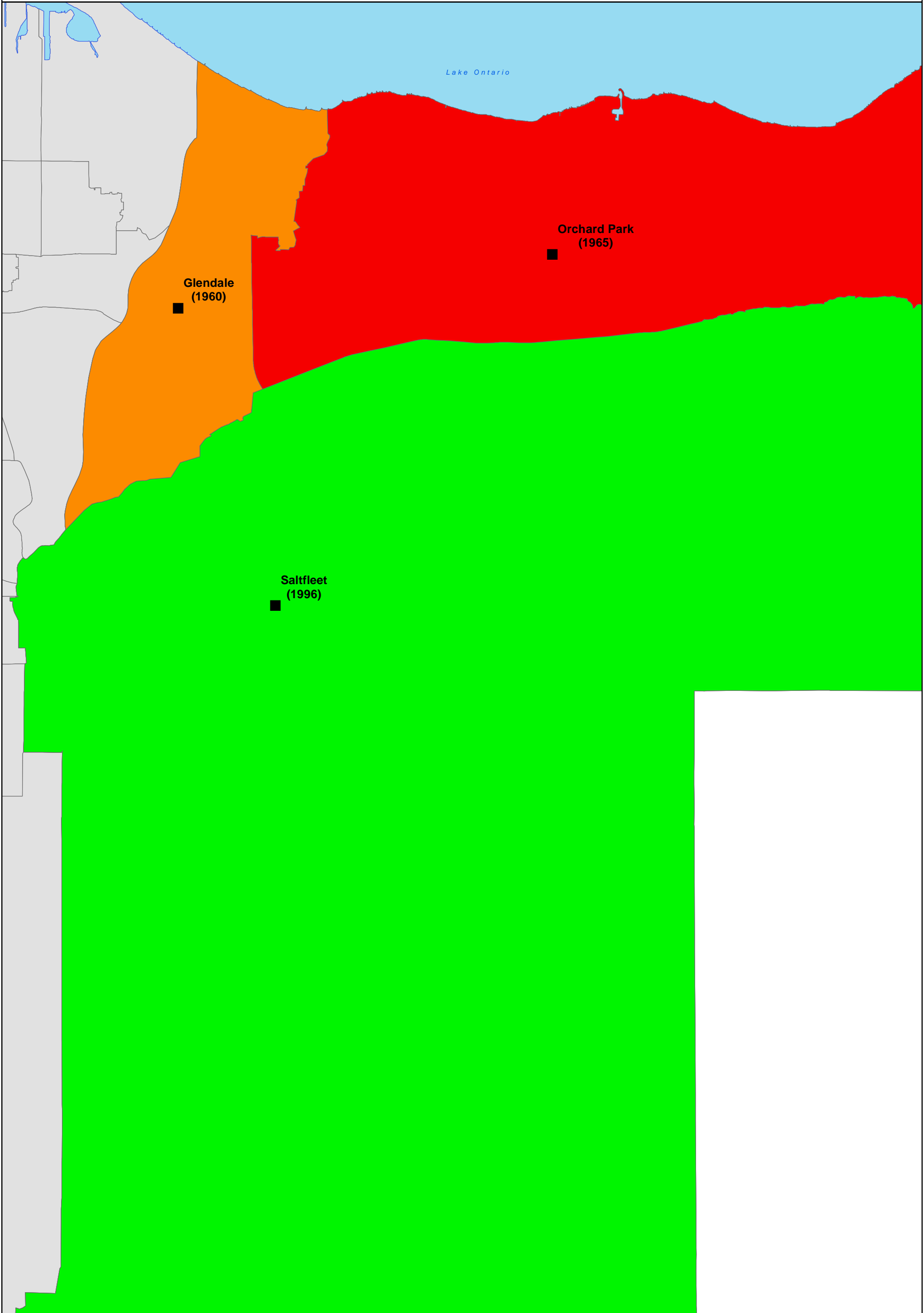


Date: 2017-05-01



Hamilton-Wentworth District School Board:
Accommodation and Planning Division

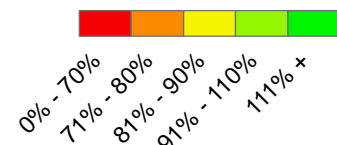
Family of Schools 1: Elementary School Utilization Rates 2026



**Family of Schools 1 - Total Excess Pupil Places:
Approx. 66**

The number in brackets after the school name is the date of original construction

Under to Over Utilization



■ Secondary School

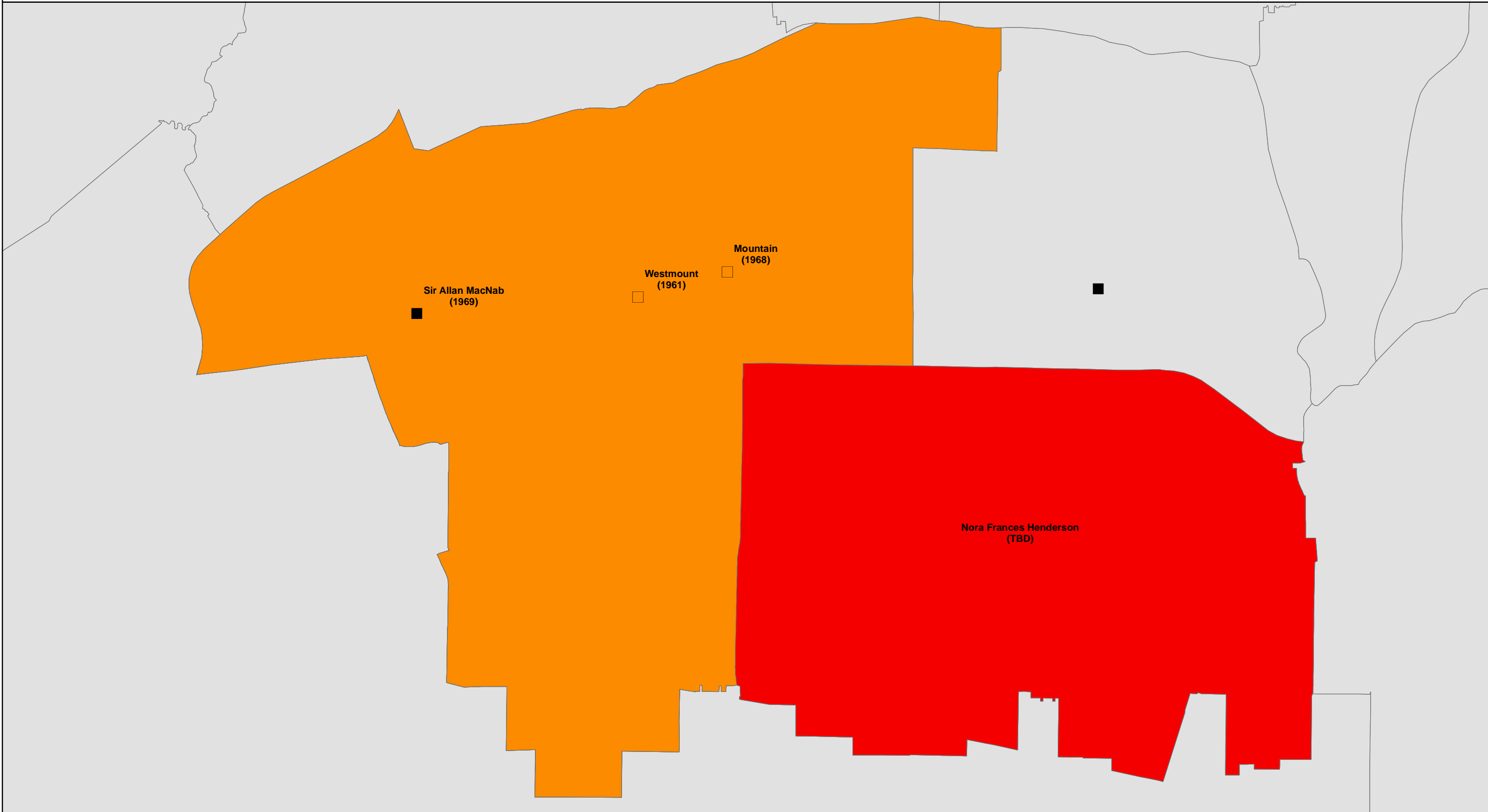


Date: 2017-04-11



Hamilton-Wentworth District School Board:
Accommodation and Planning Division

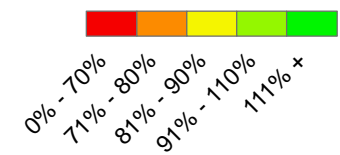
Family of Schools 2: Secondary School Utilization Rates 2016



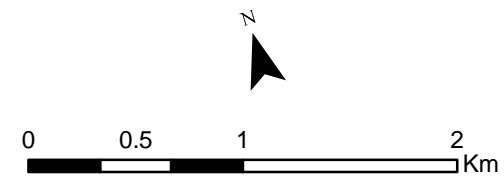
Family of Schools 2 - Total Excess Pupil Places: Approx. 713

The number in brackets after the school name is the date of original construction

Under to Over Utilization



- Secondary School
- System Secondary School

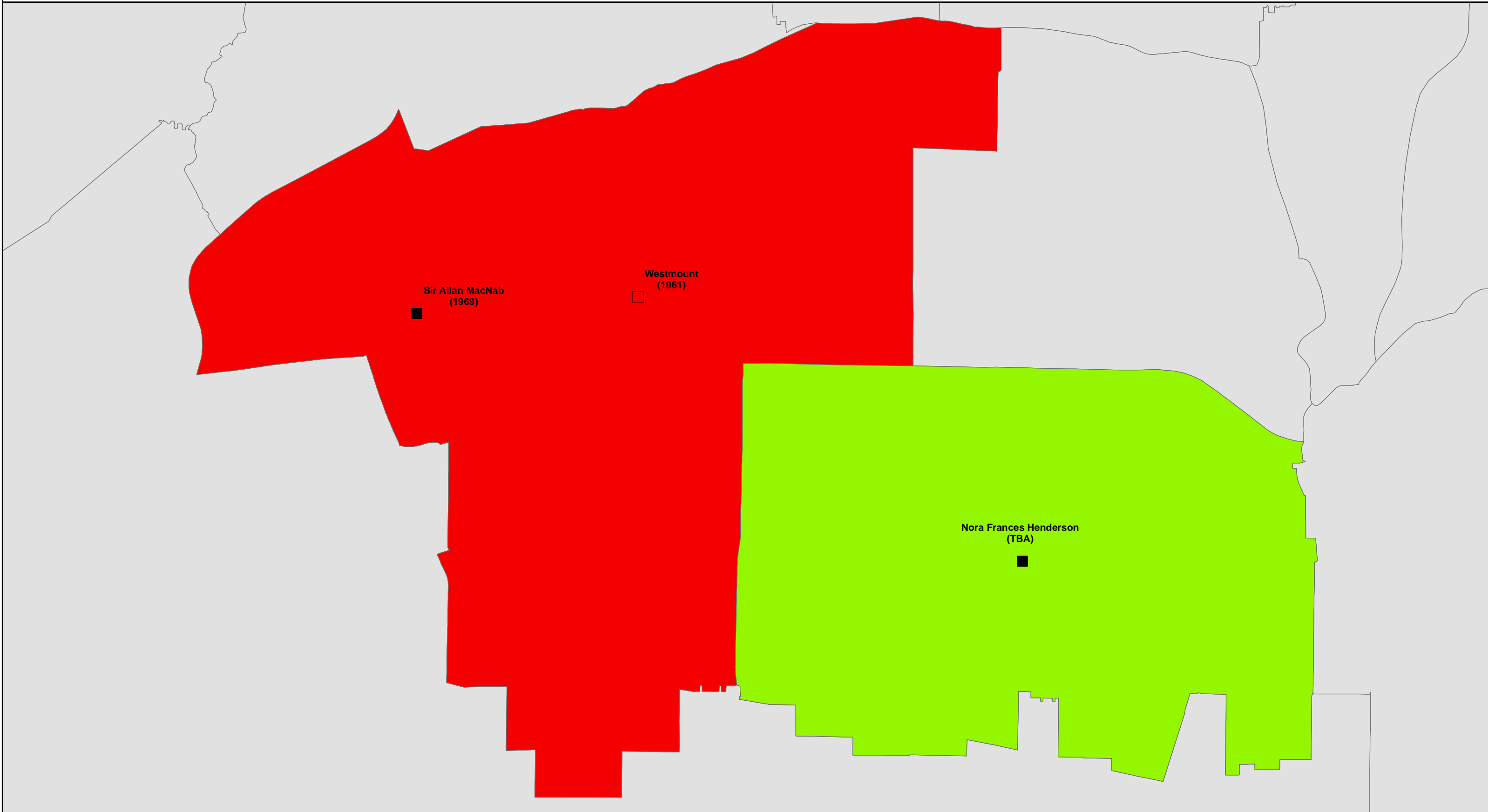


Date: 2017-05-01



Hamilton-Wentworth District School Board:
Accommodation and Planning Division

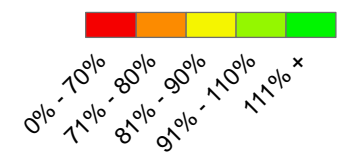
Family of Schools 2: Secondary School Utilization Rates 2021



Family of Schools 2 - Total Excess Pupil Places: Approx. 458

The number in brackets after the school name is the date of original construction

Under to Over Utilization



- Secondary School
- System Secondary School

Jan_2016_Roads

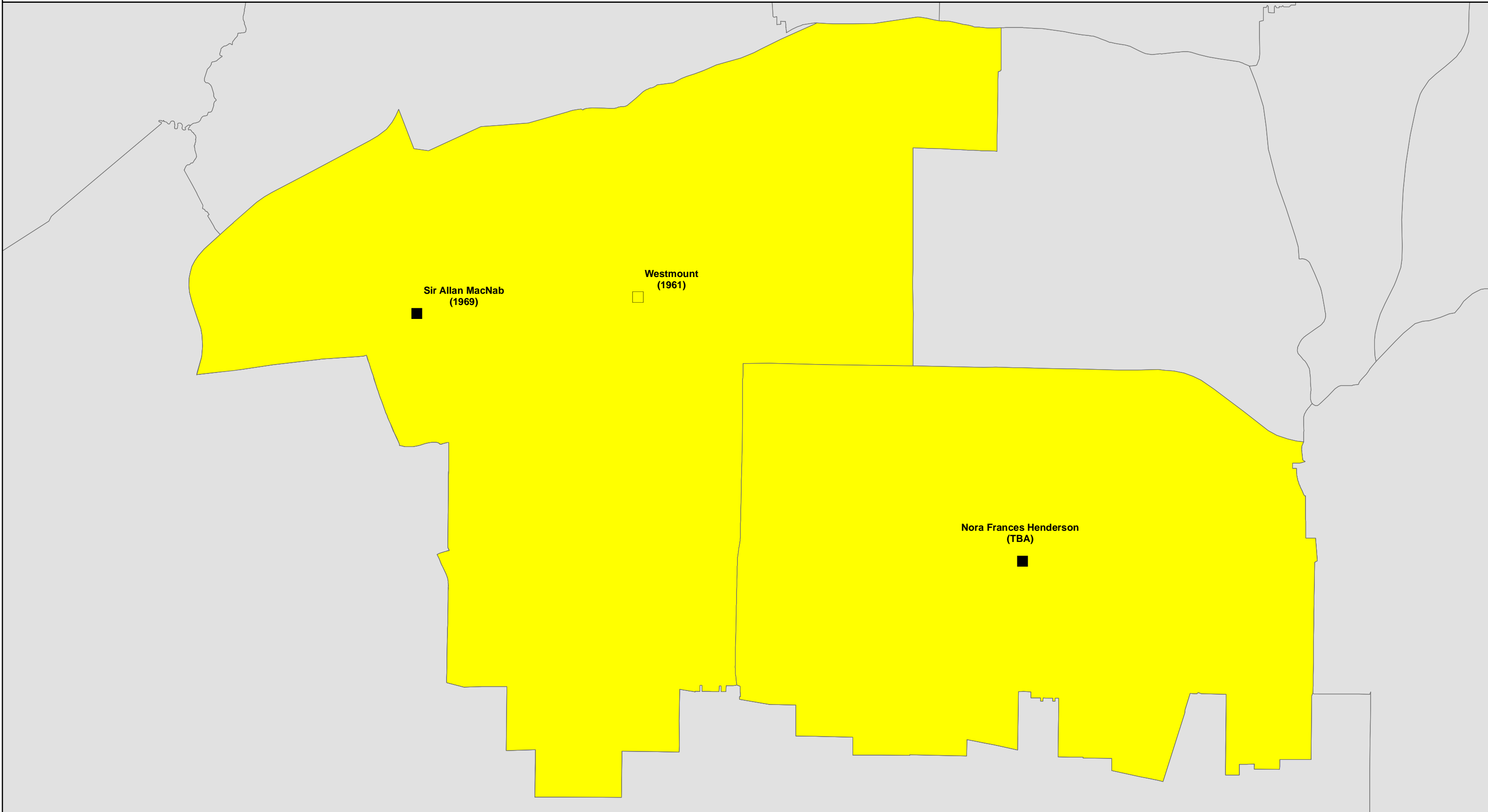


Date: 2017-04-28



Hamilton-Wentworth District School Board:
Accommodation and Planning Division

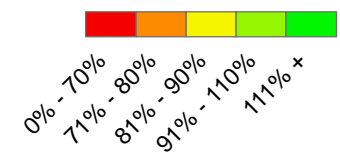
Family of Schools 2: Secondary School Utilization Rates 2026



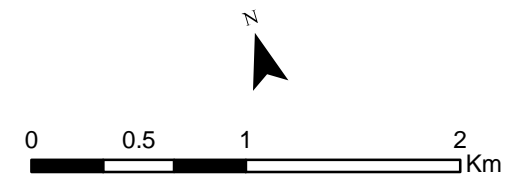
Family of Schools 2 - Total Excess Pupil Places: Approx. 325

The number in brackets after the school name is the date of original construction

Under to Over Utilization



- Secondary School
- System Secondary School

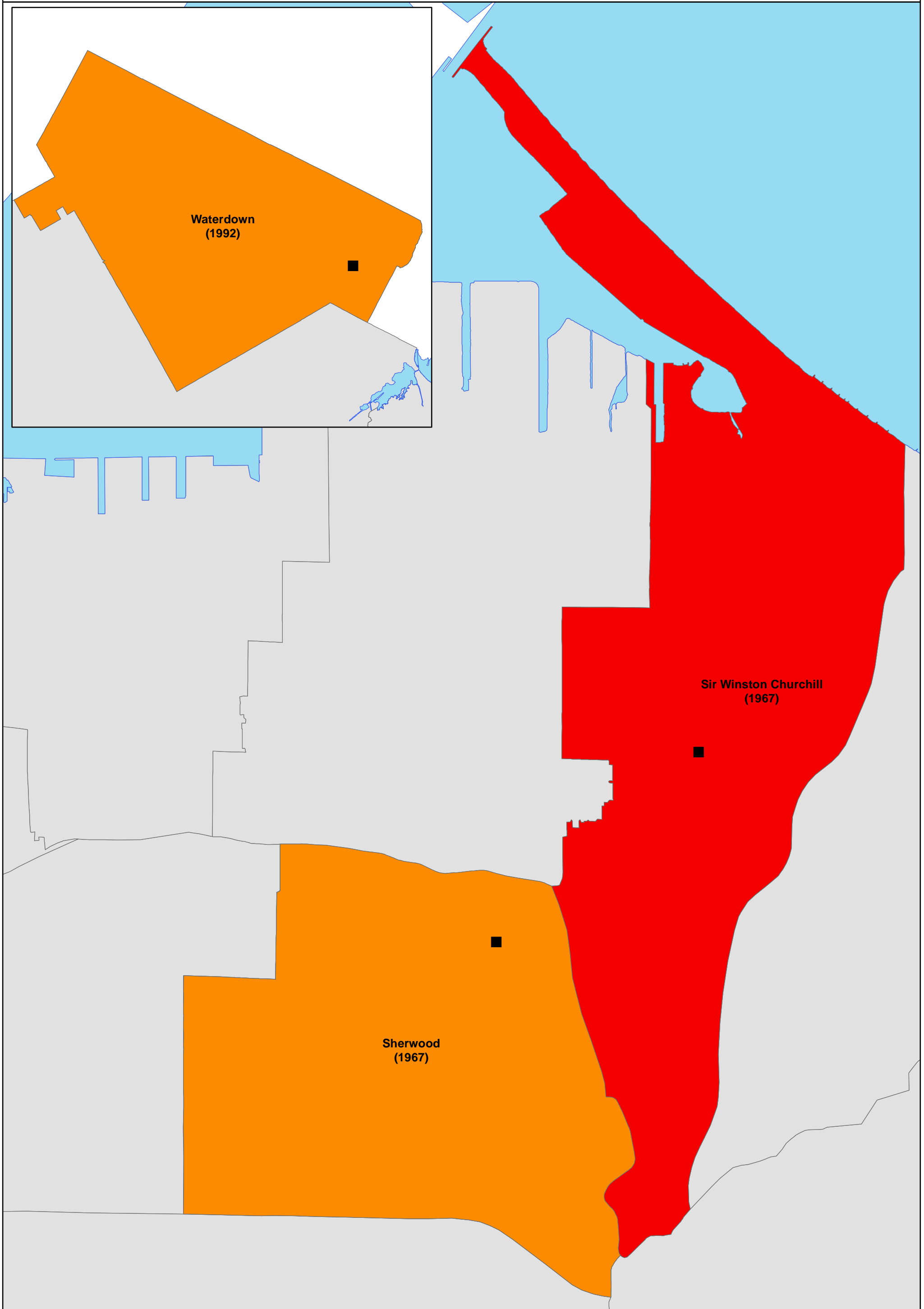


Date: 2017-05-01



Hamilton-Wentworth District School Board:
Accommodation and Planning Division

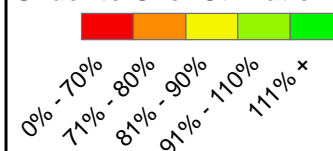
Family of Schools 3: Secondary School Utilization Rates 2016



**Family of Schools 3 - Total Excess Pupil Places:
Approx. 1170**

The number in brackets after the school name is the date of original construction

Under to Over Utilization



■ Secondary School

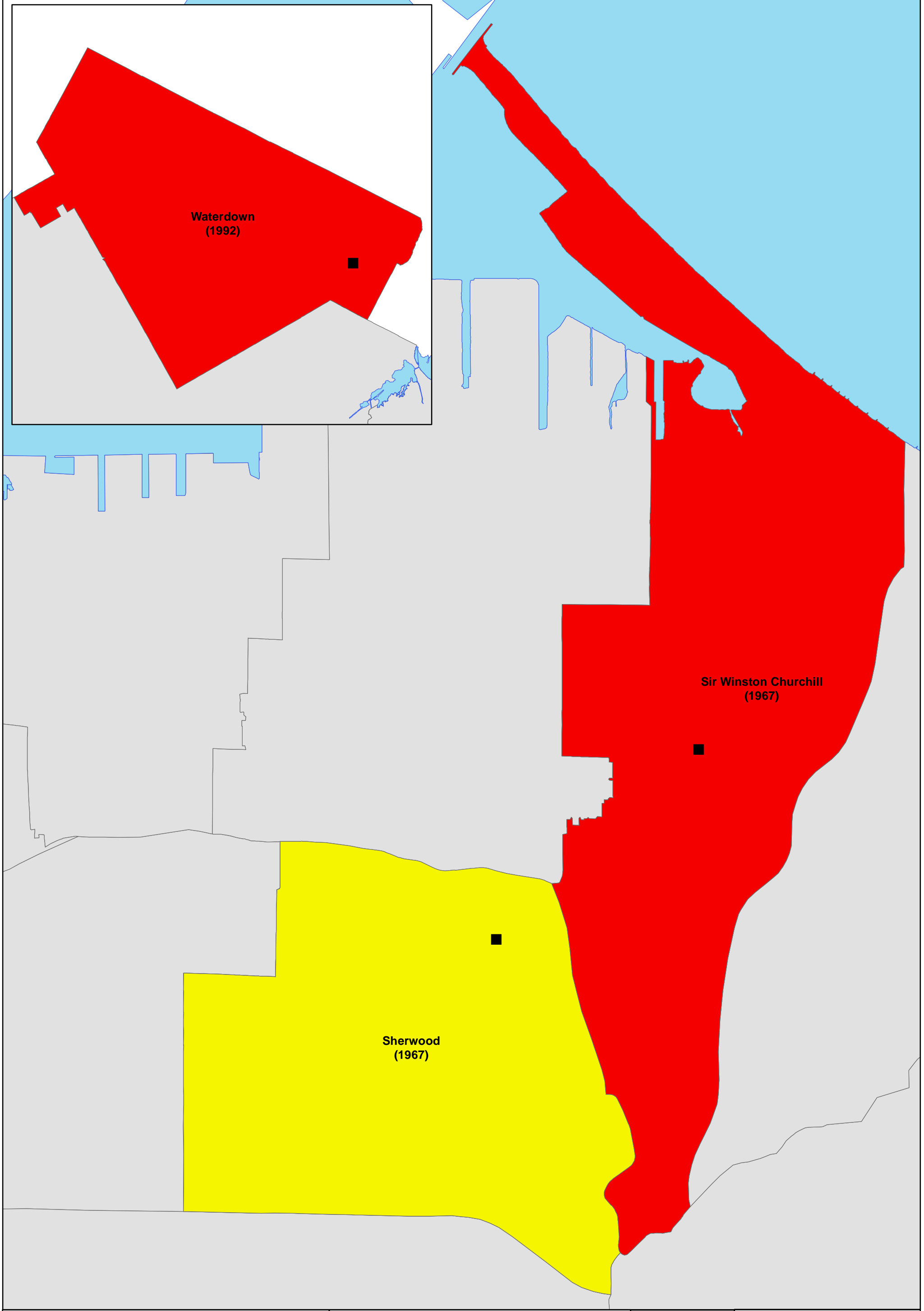


Date: 2017-05-01



Hamilton-Wentworth District School Board:
Accommodation and Planning Division

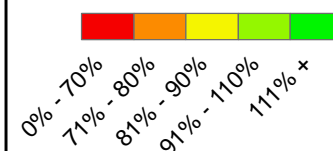
Family of Schools 3: Secondary School Utilization Rates 2021



**Family of Schools 3 - Total Excess Pupil Places:
Approx. 1144**

The number in brackets after the school name is the date of original construction

Under to Over Utilization



■ Secondary School

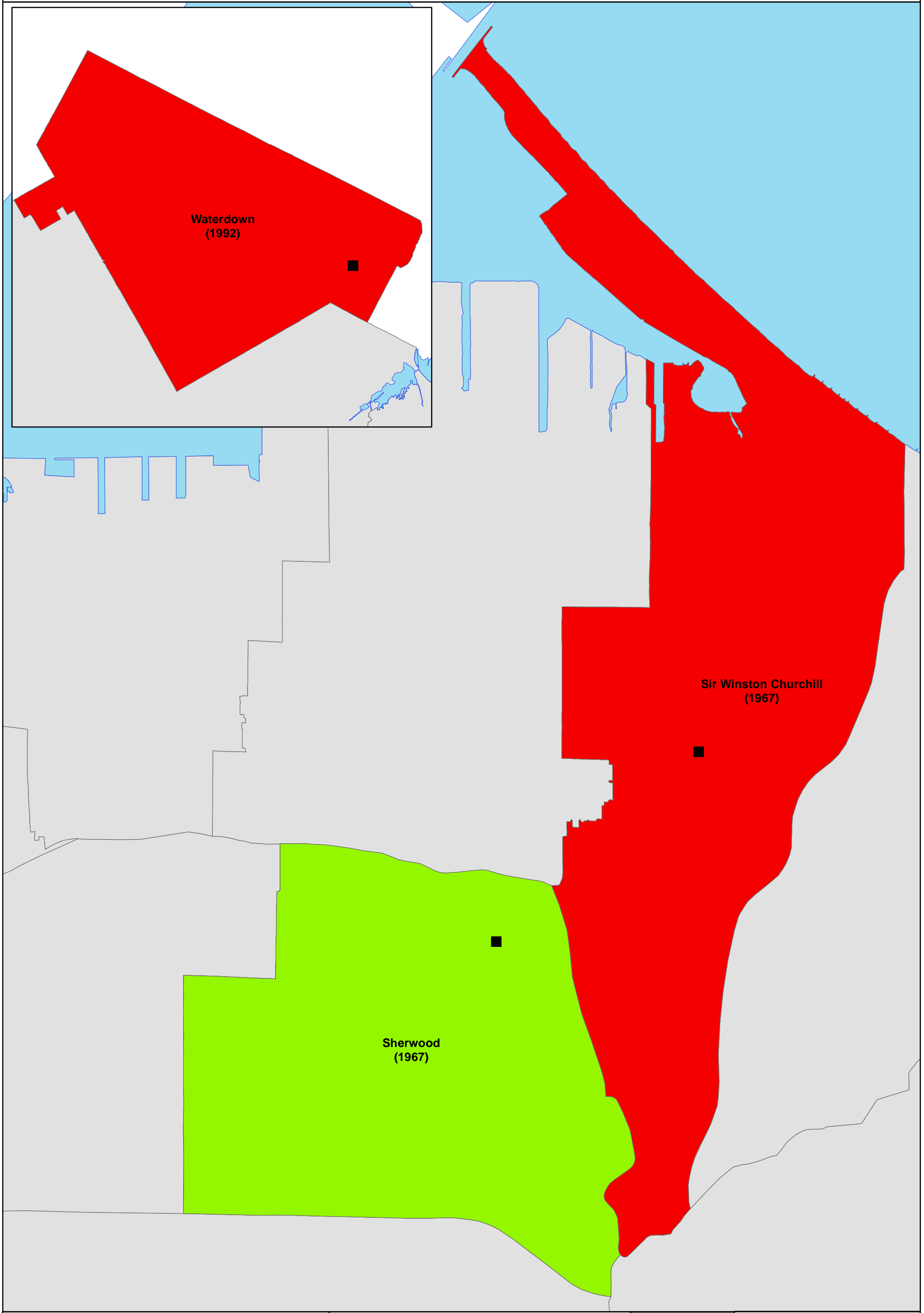


Date: 2017-05-01



Hamilton-Wentworth District School Board:
Accommodation and Planning Division

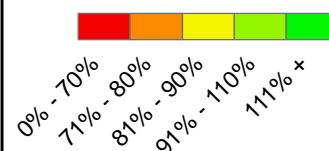
Family of Schools 3: Secondary School Utilization Rates 2026



**Family of Schools 3 - Total Excess Pupil Places:
Approx. 1048**

The number in brackets after the school name is the date of original construction

Under to Over Utilization



■ Secondary School



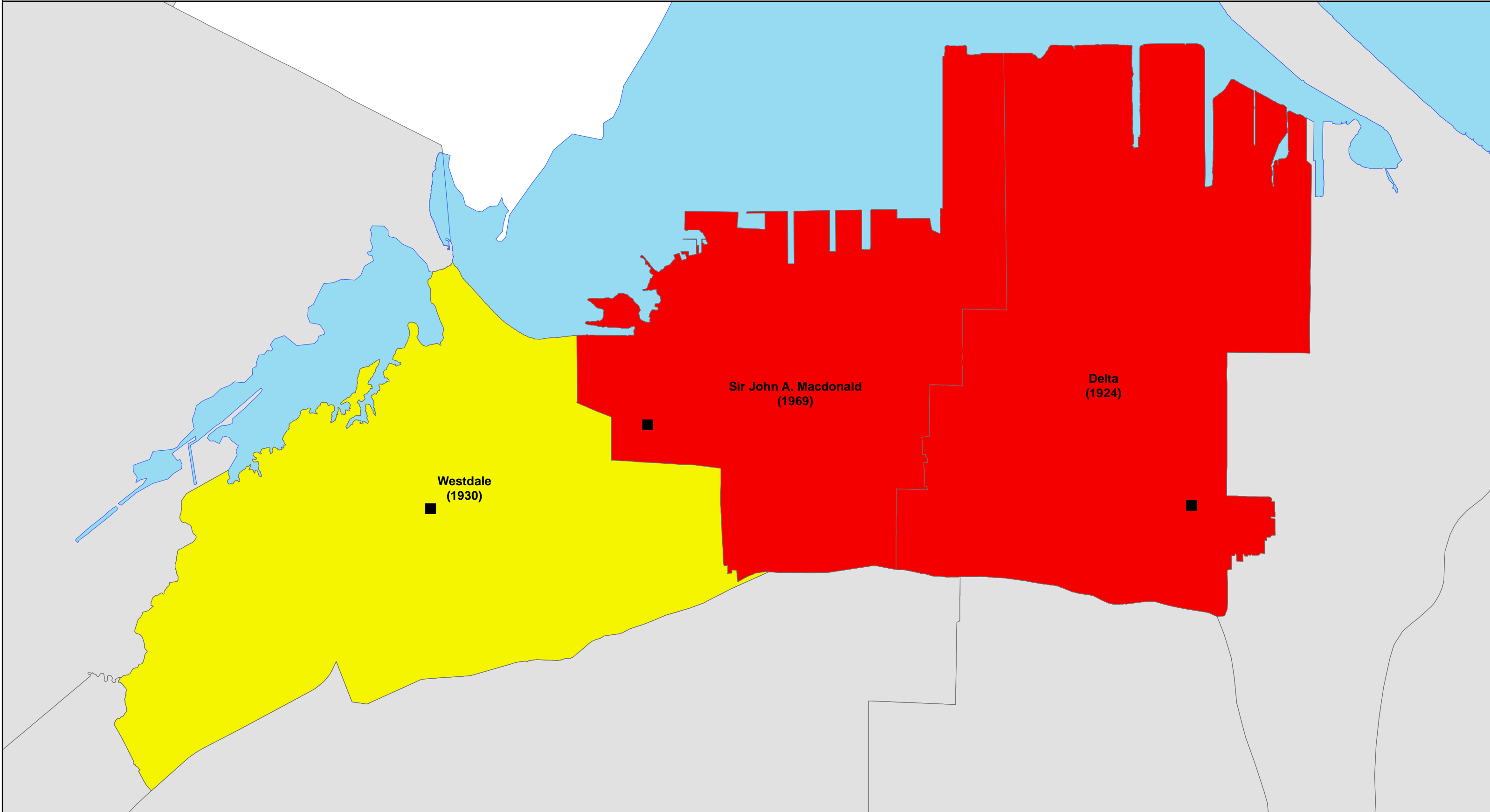
Date: 2017-05-01



Planning & Accommodation

Hamilton-Wentworth District School Board:
Accommodation and Planning Division

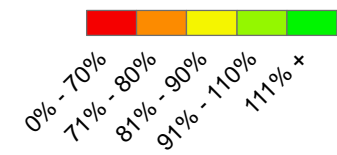
Family of Schools 4: Secondary School Utilization Rates 2016



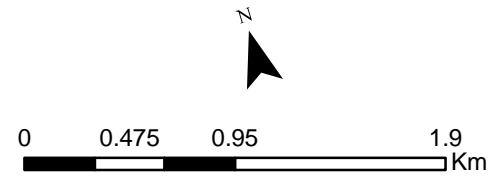
Family of Schools 4 - Total Excess Pupil Places: Approx. 1489

The number in brackets after the school name is the date of original construction

Under to Over Utilization



■ Secondary Schools

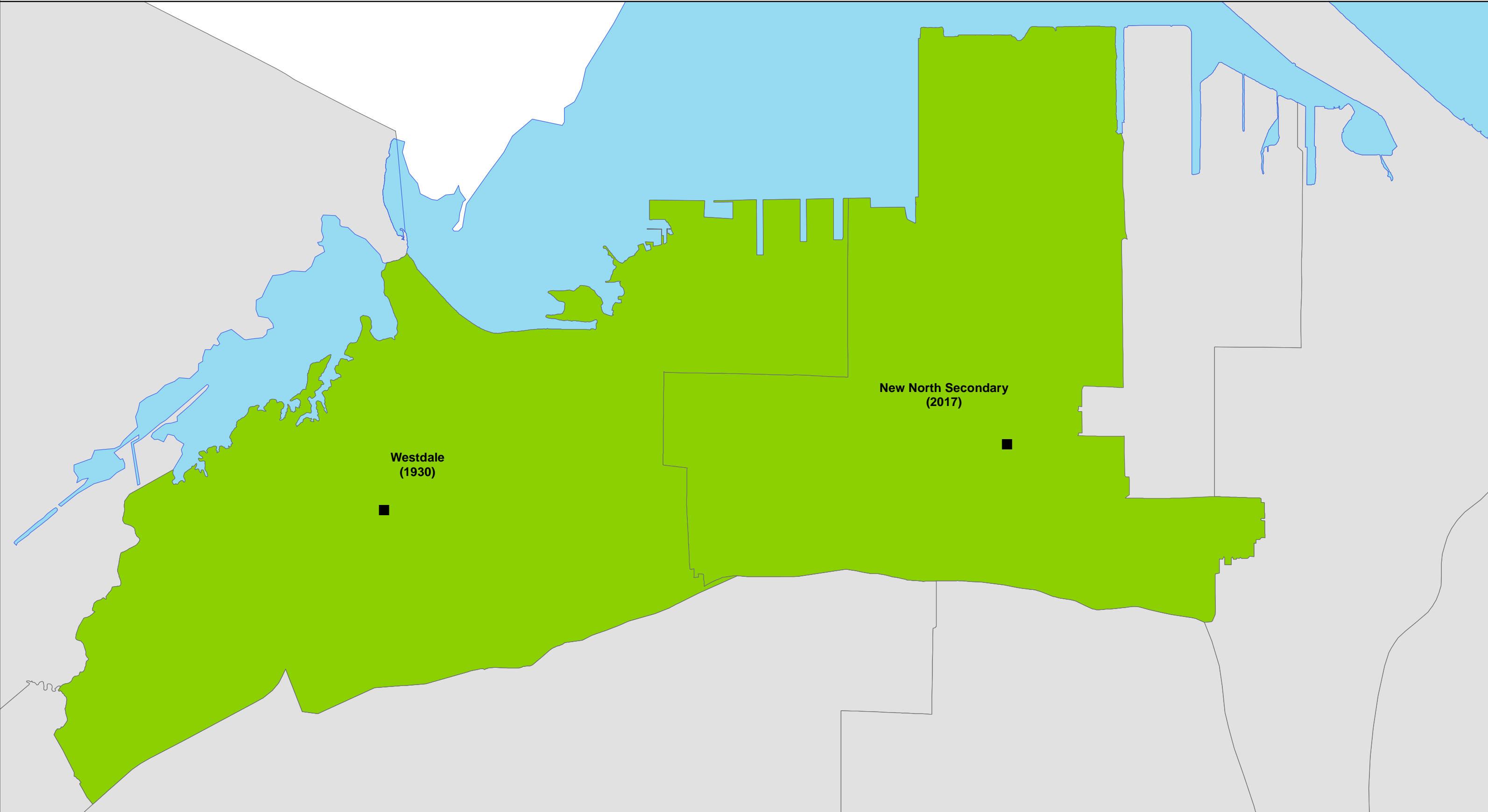


Date: 2017-05-01



Hamilton-Wentworth District School Board:
Accommodation and Planning Division

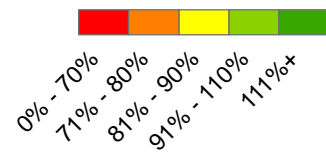
Family of Schools 4: Secondary School Utilization Rates 2021



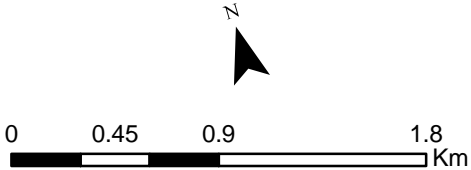
Family of Schools 4 - Total Excess Pupil Places: Approx. 192

The number in brackets after the school name is the date of original construction

Under to Over Utilization



■ Secondary School

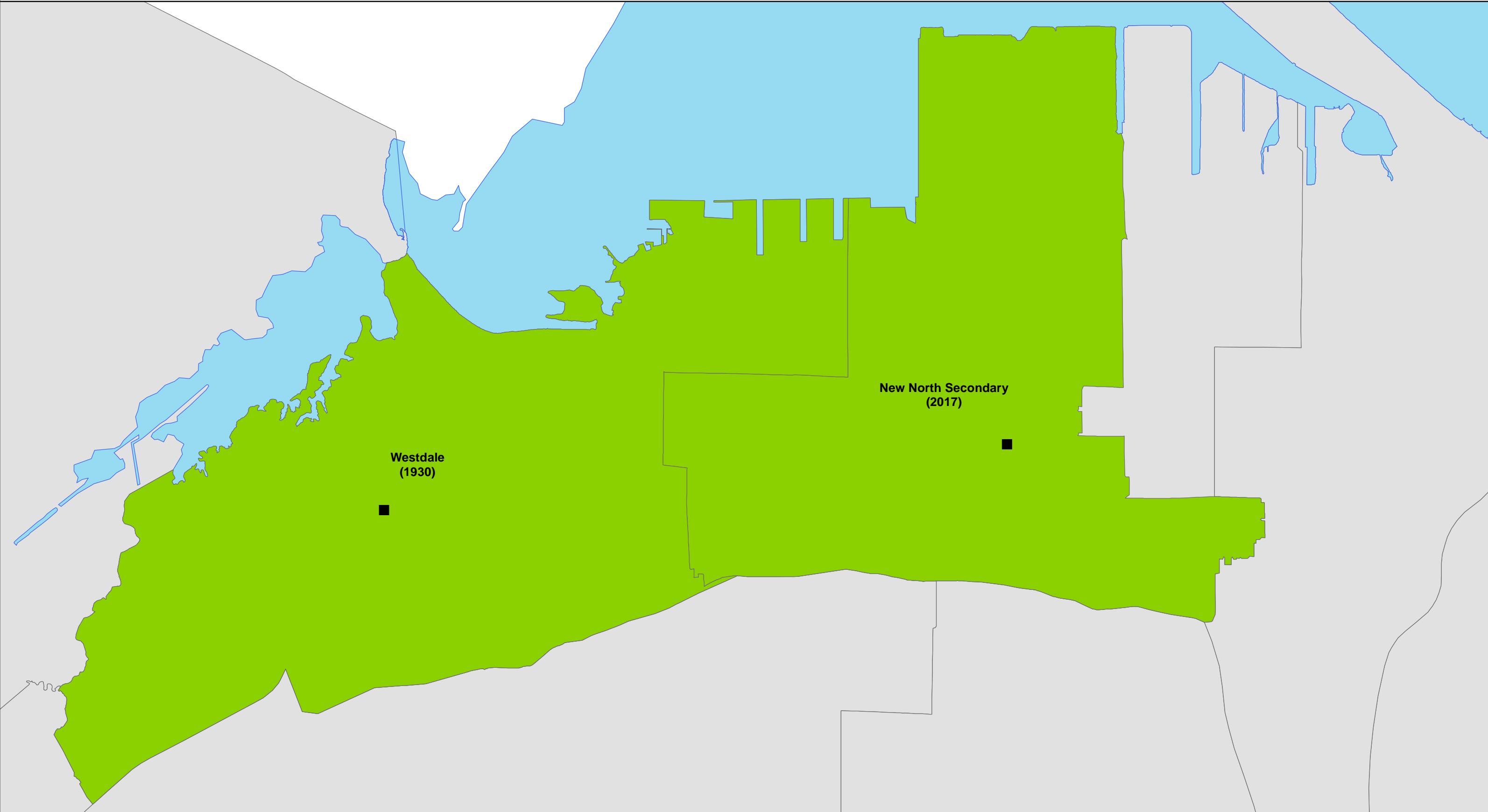


Date: 2017-04-10



Hamilton-Wentworth District School Board:
Accommodation and Planning Division

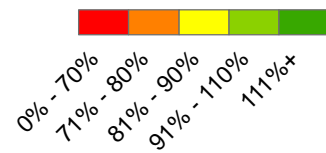
Family of Schools 4: Secondary School Utilization Rates 2026



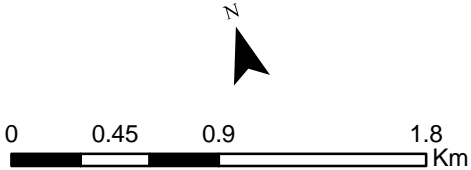
Family of Schools 4 - Total Excess Pupil Places: Approx. 242

The number in brackets after the school name is the date of original construction

Under to Over Utilization



■ Secondary School

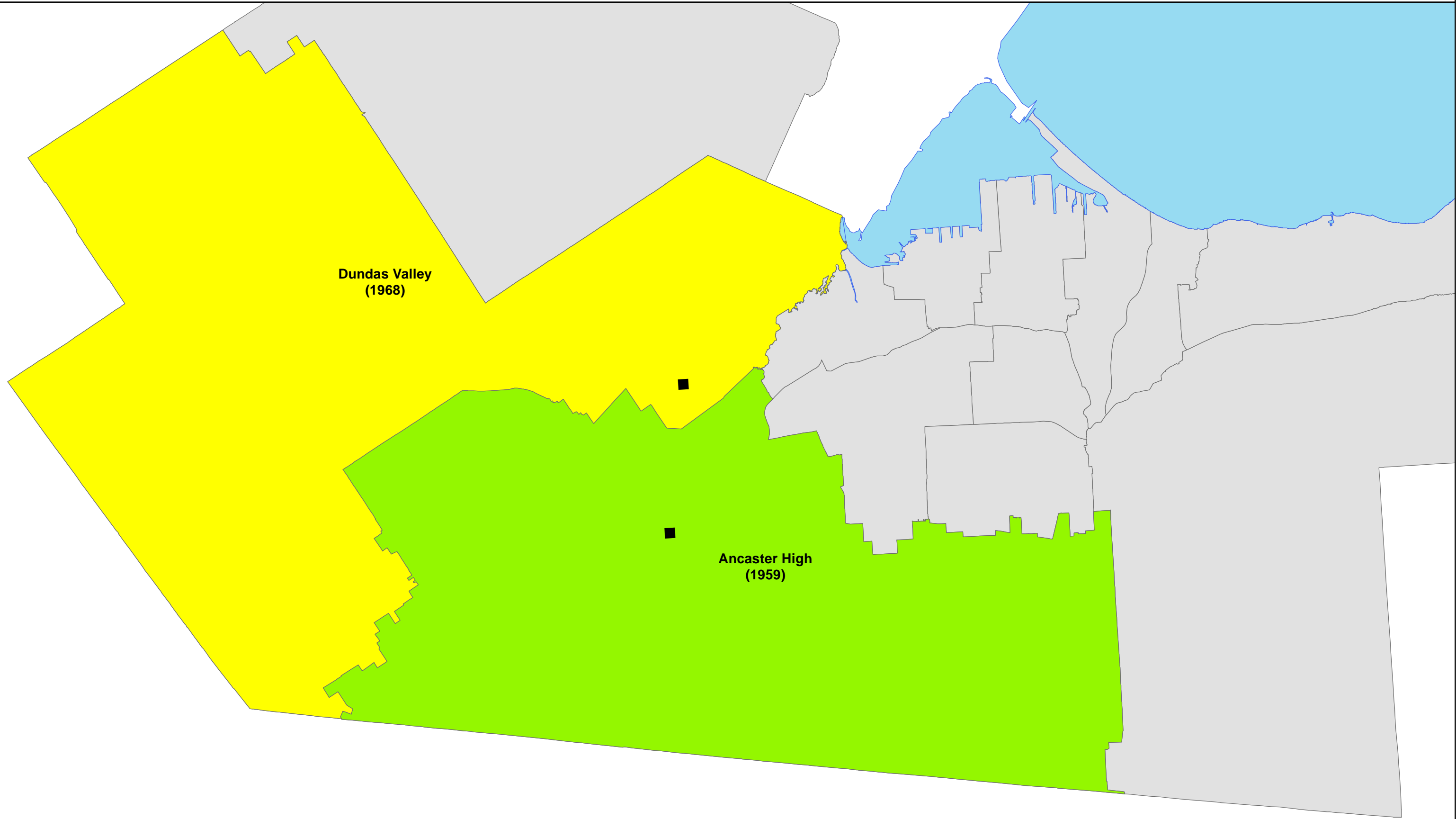


Date: 2017-04-10



Hamilton-Wentworth District School Board:
Accommodation and Planning Division

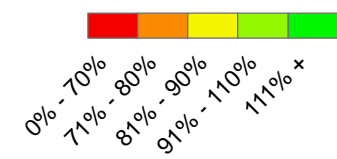
Family of Schools 5: Secondary School Utilization Rates 2016



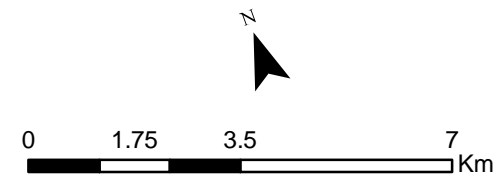
Family of Schools 5 - Total Excess Pupil Places: Approx. 243

The number in brackets after the school name is the date of original construction

Under to Over Utilization



■ Secondary School

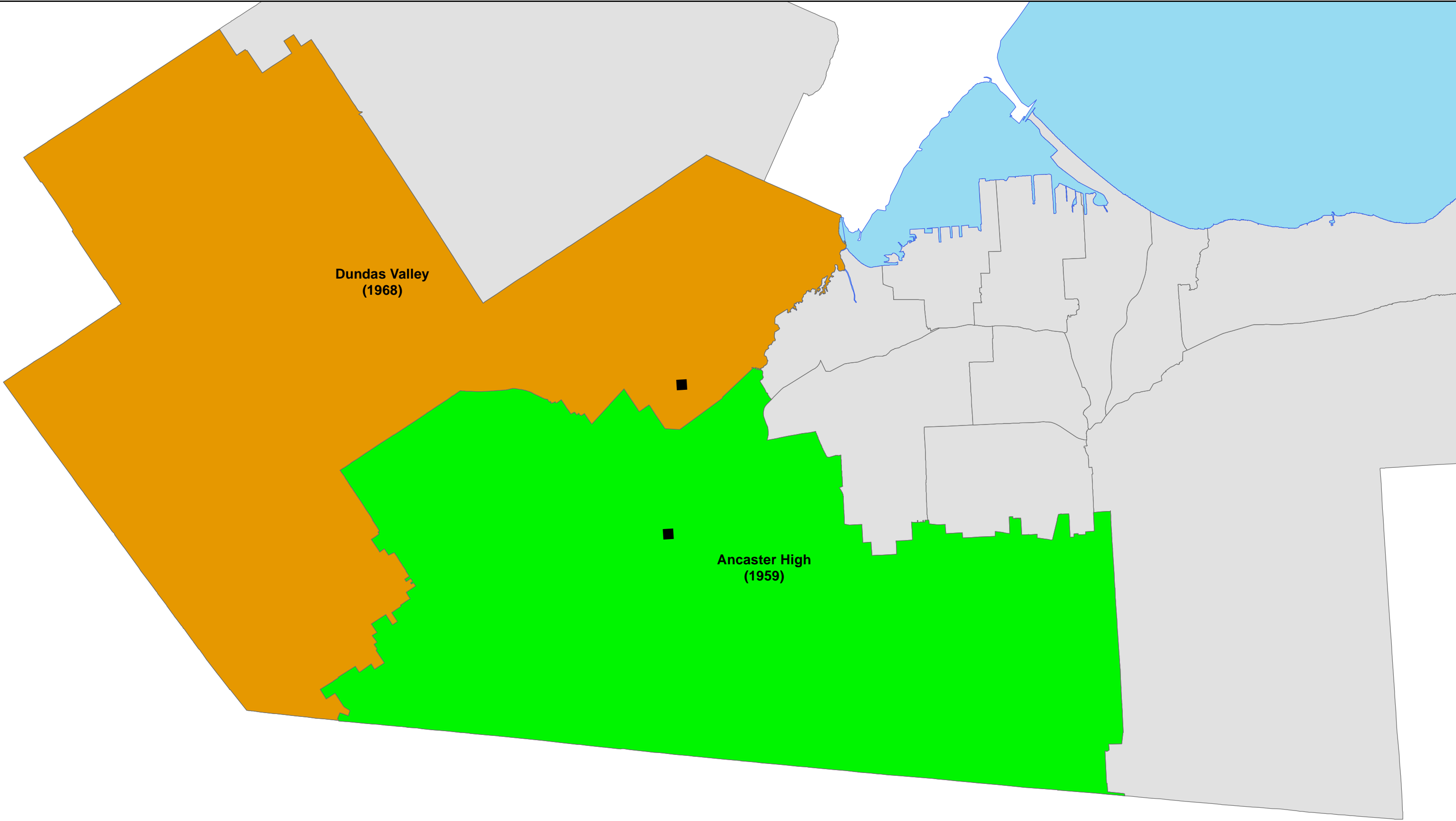


Date: 2017-04-11



Hamilton-Wentworth District School Board:
Accommodation and Planning Division

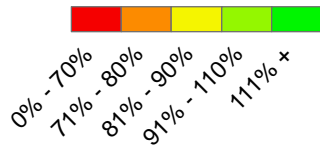
Family of Schools 5: Secondary School Utilization Rates 2021



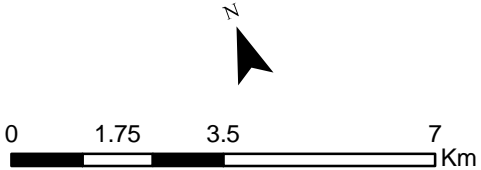
Family of Schools 5 - Total Excess Pupil Places: Approx. 250

The number in brackets after the school name is the date of original construction

Under to Over Utilization



■ Secondary School

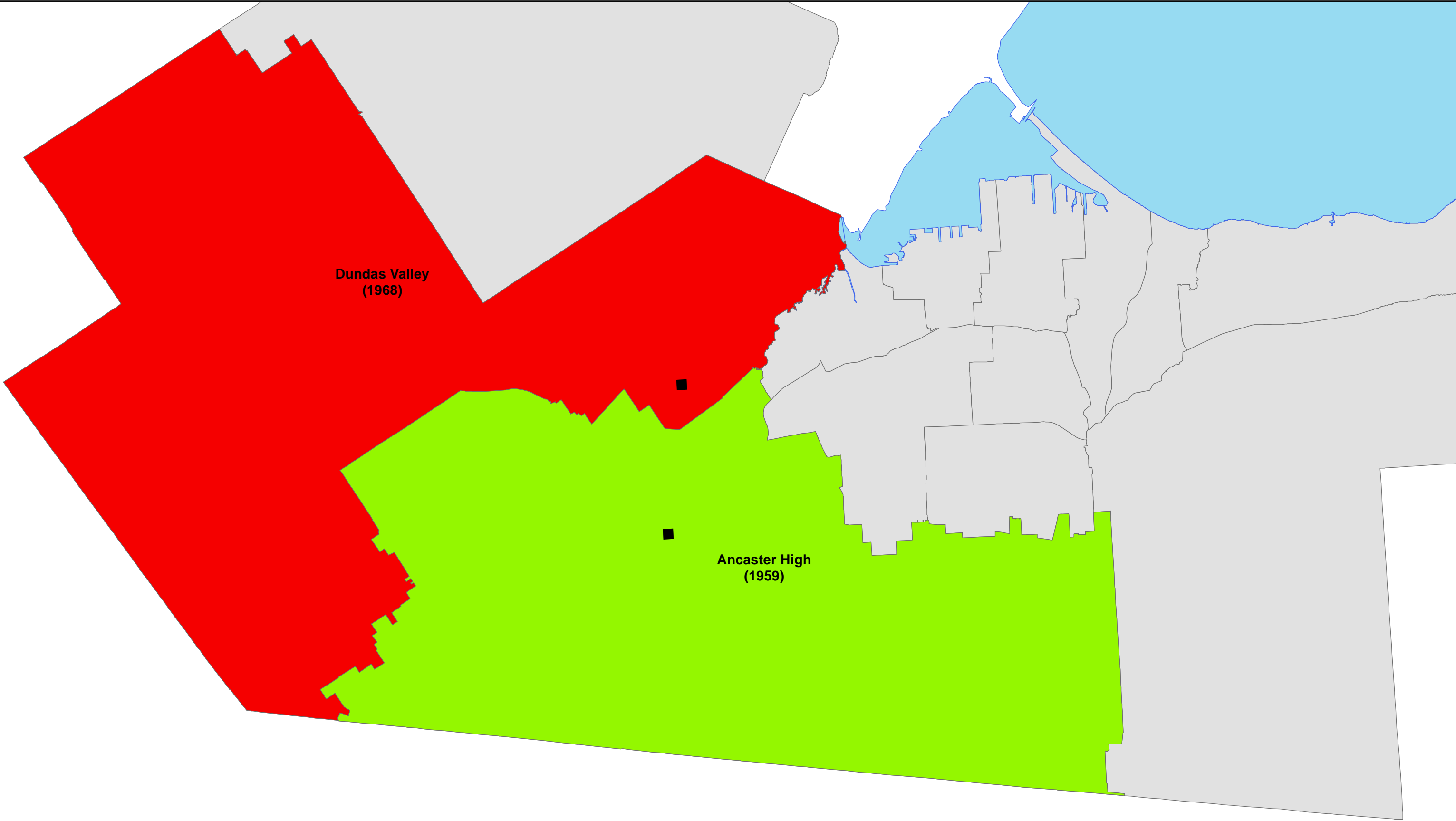


Date: 2017-04-11



Hamilton-Wentworth District School Board:
Accommodation and Planning Division

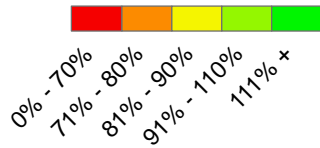
Family of Schools 5: Secondary School Utilization Rates 2026



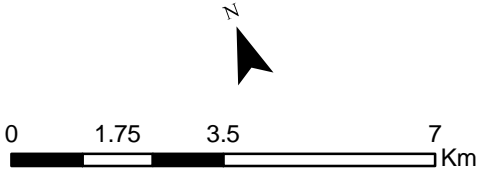
Family of Schools 5 - Total Excess Pupil Places: Approx. 446

The number in brackets after the school name is the date of original construction

Under to Over Utilization



■ Secondary School



Date: 2017-04-11



Hamilton-Wentworth District School Board:
 Accommodation and Planning Division



EXECUTIVE REPORT TO FINANCE AND FACILITIES COMMITTEE

TO: Finance and Facilities Committee

FROM: Manny Figueiredo, Director of Education

DATE: May 10, 2017

PREPARED BY: Stacey Zucker, Executive Superintendent of Board Operations and Treasurer
Denise Dawson, Senior Manager, Business Services

RE: Enrolment Summary – March 31, 2017

Action Monitoring x

Background:

Enrolment plays a very key role in the operations of a school board. The Average Daily Enrolment (ADE) is the basis for the Grant for Student Needs (GSN) which is 99% of a school boards funding. Expenditures and revenues in the 2016/17 budget were calculated based on projected Average Daily Enrolment (ADE) which is calculated based on October 31, 2016 and March 31, 2017 projected enrolment. This report provides an update to compare the actual March 31, 2017 enrolment to projections.

	Revised Projected March 31, 2016 FTE	Actual March 31, 2016 FTE	Increase (Decrease) FTE
Full Day Kindergarten	6,842.00	6,869.00	27.00
Grades 1-3	10,552.00	10,609.00	47.00
Grades 4-8	17,219.00	17,259.00	40.00
Special Education	515.00	516.00	1.00
Total Elementary	<u>35,128.00</u>	<u>35,253.00</u>	<u>115.00</u>
Total Secondary	<u>13,819.00</u>	<u>13,942.25</u>	<u>123.25</u>
Total Enrolment	<u>48,947.00</u>	<u>49,195.25</u>	<u>238.25</u>

Actual Enrolment information for 2013/14, 2014/15, 2015/16 and 2016/17 has been included for comparison purposes.

Staff Observations:

Elementary:

Overall, elementary enrolment is 396.00 FTE higher than projected, primarily due to the influx of Syrian newcomers into our schools since December 2015. As of March 31, 2016, 313 students from Syria were attending elementary schools across our system. The grade breakdown of these new students are 83.00 in FDK, 109 students in grades 1-3 and 121 students in grades 4-8. In addition, enrolment has grown due to new housing in certain areas of the city attracting new families to the community.

Secondary:

Overall, secondary enrolment is 174.75 FTE higher than revised projections. This increase is due to the influx of 50 secondary Syrian newcomer students as of March 31, 2016 and growth in some communities in the city. In addition, the revised March 2016 enrolment projections were very conservative as they were based on October 31, 2015 actual numbers.

Conclusion:

The increased enrolment in both panels has an impact on revenue for the 2016/17 Budget.

Attach.

Hamilton-Wentworth District School Board											
Summary of Elementary Enrolment											
Finance and Facilities Committee - May 18, 2017											
School	Oct 2016 Budget	Oct 2016 Actual	Diff. Actual to Budget	Mar 2017 Rev Budget	Mar 2017 Actual	Diff. Actual to Budget	ADE 2016/17	ADE 2015/16	ADE 2014/15	ADE 2013/14	ADE 2012/13
A. M. Cunningham	392.00	410.00	18.00	410.00	410.00	0.00	410.00	406.50	417.00	392.75	395.50
Adelaide Hoodless	417.00	424.00	7.00	424.00	417.00	(7.00)	420.50	425.50	416.50	364.50	359.25
Allan Greenleaf	463.00	493.00	30.00	493.00	494.00	1.00	493.50	453.50	456.50	414.00	460.25
Ancaster Meadow	875.00	851.00	(24.00)	629.00	657.00	28.00	754.00	893.00	910.00	776.75	687.25
Ancaster Senior	321.00	339.00	18.00	339.00	342.00	3.00	340.50	298.50	304.50	312.00	295.00
Balaclava	382.00	380.00	(2.00)	380.00	376.00	(4.00)	378.00	369.00	375.50	341.25	333.00
Bellmoore	979.00	973.00	(6.00)	973.00	983.00	10.00	978.00	899.00	810.00	622.00	527.00
Bennetto	459.00	492.00	33.00	492.00	495.00	3.00	493.50	493.00	503.00	466.75	476.25
Beverly Central	175.00	173.00	(2.00)	173.00	171.00	(2.00)	172.00	172.00	160.50	155.00	144.75
Billy Green	536.00	486.00	(50.00)	486.00	481.00	(5.00)	483.50	469.50	438.00	379.00	343.50
Buchanan Park	165.00	164.00	(1.00)	164.00	170.00	6.00	167.00	170.00	181.00	162.25	167.75
C. H. Bray	311.00	309.00	(2.00)	309.00	315.00	6.00	312.00	316.50	316.00	287.50	290.25
Cathy Weaver	609.00	725.00	116.00	725.00	725.00	0.00	725.00	651.00	618.00	559.25	572.75
Cecil B. Stirling	275.00	295.00	20.00	295.00	287.00	(8.00)	291.00	304.50	343.00	322.75	340.00
Central	262.00	301.00	39.00	302.00	304.00	2.00	302.50	278.00	246.00	179.50	177.75
Chedoke	634.00	573.00	(61.00)	454.00	482.00	28.00	527.50	558.50	518.00	473.75	451.75
Collegiate Avenue	270.00	278.00	8.00	278.00	284.00	6.00	281.00	277.00	262.00	245.00	237.75
Cootes Paradise	553.00	604.00	51.00	605.00	615.00	10.00	609.50	588.00	589.50	383.50	392.50
Dalewood	291.00	274.00	(17.00)	275.00	275.00	0.00	274.50	292.50	297.00	308.00	368.50
Dr. J. Edgar Davey	514.00	509.00	(5.00)	509.00	492.00	(17.00)	500.50	520.50	560.00	539.50	545.50
Dr. J. Seaton	207.00	215.00	8.00	215.00	215.00	0.00	215.00	213.50	227.00	214.75	232.00
Dundana	357.00	367.00	10.00	367.00	371.00	4.00	369.00	353.00	339.00	303.50	308.00
Dundas Central	404.00	408.00	4.00	408.00	411.00	3.00	409.50	407.00	407.50	390.00	455.75
Earl Kitchener	531.00	564.00	33.00	564.00	566.00	2.00	565.00	558.00	574.50	461.25	443.50
Eastdale	181.00	201.00	20.00	201.00	216.00	15.00	208.50	195.50	199.50	184.50	185.75
Ecole Elementaire Michaelle Jean	181.00	194.00	13.00	194.00	197.00	3.00	195.50	155.50	122.00	87.00	62.00
Elizabeth Bagshaw	374.00	374.00	0.00	376.00	386.00	10.00	380.00	368.50	350.00	324.50	306.00
Fessenden	484.00	525.00	41.00	525.00	529.00	4.00	527.00	498.00	505.50	429.00	390.00
Flamborough Centre	248.00	260.00	12.00	255.00	258.00	3.00	259.00	251.00	283.50	285.00	284.75
Franklin Road	463.00	496.00	33.00	497.00	488.00	(9.00)	492.00	444.50	361.50	310.50	315.75
Gatestone	598.00	616.00	18.00	616.00	619.00	3.00	617.50	606.50	631.50	593.75	606.25
George L. Armstrong	473.00	492.00	19.00	493.00	493.00	0.00	492.50	487.50	318.00	304.50	316.25
Glen Brae	340.00	320.00	(20.00)	320.00	322.00	2.00	321.00	333.00	311.00	286.00	273.00
Glen Echo	289.00	302.00	13.00	302.00	303.00	1.00	302.50	293.50	268.50	274.25	271.75
Glenwood	49.00	41.00	(8.00)	41.00	42.00	1.00	41.50	49.00	48.00	48.00	53.00
Gordon Price	393.00	396.00	3.00	396.00	398.00	2.00	397.00	405.50	418.50	391.75	402.25
Green Acres	288.00	295.00	7.00	295.00	288.00	(7.00)	291.50	284.00	305.00	294.00	306.75
Greensville	175.00	173.50	(1.50)	174.00	179.00	5.00	176.25	187.00	187.00	180.00	172.50
Guy Brown	736.00	683.00	(53.00)	682.00	681.00	(1.00)	682.00	699.00	648.60	573.75	488.00
Helen Detwiler	498.00	527.00	29.00	527.00	526.00	(1.00)	526.50	524.50	541.00	516.75	526.10
Hess	298.00	352.00	54.00	352.00	350.00	(2.00)	351.00	328.50	302.50	292.25	321.75
Highview	471.00	481.00	10.00	481.00	481.00	0.00	481.00	467.50	447.00	394.00	382.75
Hillcrest	549.00	551.00	2.00	557.00	545.00	(12.00)	548.00	582.00	425.50	435.00	453.00
Holbrook	188.00	206.00	18.00	206.00	212.00	6.00	209.00	190.00	181.00	180.75	193.00
Huntington Park	401.00	421.00	20.00	421.00	418.00	(3.00)	419.50	413.00	418.00	381.50	384.50
James MacDonald	304.00	327.00	23.00	327.00	317.00	(10.00)	322.00	293.50	304.50	237.00	225.75
Janet Lee	422.00	437.00	15.00	437.00	443.00	6.00	440.00	417.50	413.00	385.00	372.25
Lake Avenue	491.00	506.00	15.00	506.00	494.00	(12.00)	500.00	511.00	527.00	502.00	514.00
Lawfield	714.00	703.00	(11.00)	703.00	705.00	2.00	704.00	736.00	723.50	665.50	678.50

Hamilton-Wentworth District School Board											
Summary of Elementary Enrolment											
Finance and Facilities Committee - May 18, 2017											
School	Oct 2016 Budget	Oct 2016 Actual	Diff. Actual to Budget	Mar 2017 Rev Budget	Mar 2017 Actual	Diff. Actual to Budget	ADE 2016/17	ADE 2015/16	ADE 2014/15	ADE 2013/14	ADE 2012/13
Lincoln Alexander	223.00	235.00	12.00	235.00	241.00	6.00	238.00	225.00	202.50	175.00	184.25
Lisgar	300.00	302.00	2.00	302.00	305.00	3.00	303.50	311.50	303.00	261.00	261.25
Mary Hopkins	316.00	338.00	22.00	338.00	336.00	(2.00)	337.00	315.00	309.50	259.50	283.00
Memorial	467.00	460.00	(7.00)	460.00	439.00	(21.00)	449.50	469.00	474.00	446.75	464.50
Memorial (S.C.)	346.00	371.00	25.00	371.00	375.00	4.00	373.00	348.00	353.50	306.50	294.00
Millgrove	176.00	186.00	10.00	186.00	184.00	(2.00)	185.00	176.50	175.00	144.25	153.00
Mount Albion	309.00	357.00	48.00	358.00	375.00	17.00	366.00	306.50	307.50	263.50	259.50
Mount Hope	401.00	378.00	(23.00)	379.00	374.00	(5.00)	376.00	385.50	345.50	269.75	255.50
Mountain View	326.00	330.00	4.00	331.00	330.00	(1.00)	330.00	336.50	318.00	294.75	284.75
Mountview	191.00	224.00	33.00	224.00	230.00	6.00	227.00	198.50	203.00	174.25	184.50
Norwood Park	489.00	485.00	(4.00)	486.00	499.00	13.00	492.00	471.50	466.50	465.50	451.25
Parkdale	160.00	213.00	53.00	213.00	200.00	(13.00)	206.50	174.00	147.00	132.75	145.50
Pauline Johnson	430.00	424.00	(6.00)	424.00	424.00	0.00	424.00	470.00	256.50	211.00	211.50
Prince of Wales	658.00	638.60	(19.40)	640.00	656.00	16.00	647.30	669.00	685.00	590.00	580.75
Queen Mary	599.00	618.00	19.00	618.00	616.00	(2.00)	617.00	594.00	608.00	528.00	535.00
Queen Victoria	550.00	557.00	7.00	557.00	572.00	15.00	564.50	539.50	538.50	436.50	426.00
Queen's Rangers	109.00	130.00	21.00	130.00	131.00	1.00	130.50	120.50	119.50	107.00	112.25
Queensdale	291.00	335.00	44.00	335.00	342.00	7.00	338.50	275.50	190.50	153.75	161.75
R. A. Riddell	735.00	748.00	13.00	748.00	763.00	15.00	755.50	742.50	776.00	716.50	702.00
R. L. Hyslop	157.00	160.00	3.00	160.00	158.00	(2.00)	159.00	163.50	179.00	165.00	178.25
Ray Lewis	640.00	631.00	(9.00)	631.00	642.00	11.00	636.50	642.00	667.50	603.75	617.50
Richard Beasley	185.00	204.00	19.00	204.00	216.00	12.00	210.00	196.00	207.00	163.25	162.25
Ridgemount	425.00	419.00	(6.00)	419.00	428.00	9.00	423.50	395.50	300.00	233.00	226.25
Rosedale	159.00	165.00	6.00	165.00	175.00	10.00	170.00	171.00	166.00	140.25	134.25
Rousseau	235.00	261.00	26.00	261.00	263.00	2.00	262.00	239.00	237.00	223.75	231.00
Ryerson	377.00	410.00	33.00	410.00	412.00	2.00	411.00	371.00	351.00	359.50	369.50
Sir Isaac Brock	186.00	207.00	21.00	208.00	202.00	(6.00)	204.50	191.50	200.50	166.50	182.00
Sir Wilfrid Laurier	472.00	462.00	(10.00)	462.00	438.00	(24.00)	450.00	475.50	492.00	448.25	448.00
Sir William Osler	580.00	606.00	26.00	606.00	602.00	(4.00)	604.00	599.50	628.50	567.00	564.75
Spencer Valley	183.00	185.00	2.00	185.00	187.00	2.00	186.00	182.00	194.50	187.00	177.50
Strathcona	198.00	193.00	(5.00)	193.00	189.00	(4.00)	191.00	189.50	200.50	180.75	173.50
Tapleystown	273.00	295.00	22.00	295.00	306.00	11.00	300.50	251.50	203.00	173.25	176.75
Templemead	514.00	580.00	66.00	580.00	589.00	9.00	584.50	571.00	578.00	539.25	567.00
Tiffany Hills	0.00	0.00	0.00	344.00	293.00	(51.00)	146.50	0.00	0.00	0.00	0.00
Viscount Montgomery	366.00	401.00	35.00	402.00	399.00	(3.00)	400.00	367.00	315.50	300.25	315.25
W.H. Ballard	537.00	568.00	31.00	568.00	558.00	(10.00)	563.00	559.00	585.00	533.25	523.50
Westview	248.00	223.00	(25.00)	226.00	230.00	4.00	226.50	246.50	281.00	270.50	270.00
Westwood	249.00	258.00	9.00	258.00	271.00	13.00	264.50	250.50	246.40	196.50	192.25
Winona	892.00	873.00	(19.00)	873.00	886.00	13.00	879.50	876.00	855.50	724.25	648.00
Yorkview	190.00	189.20	(.80)	190.00	189.00	(1.00)	189.10	190.50	183.00	159.00	137.75
Closed:											
Bell-Stone	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.50	53.75
Cardinal Heights	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	314.50	311.00	315.00
Eastmount Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	204.50	172.75	187.25
Linden Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	135.00	136.00	134.50
Prince Phillip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	171.50	164.50
Roxborough Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	235.00	189.50	191.75
Woodward	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	135.00	114.75	115.50

Hamilton-Wentworth District School Board											
Summary of Elementary Enrolment											
Finance and Facilities Committee - May 18, 2017											
	Oct 2016	Oct 2016	Diff. Actual	Mar 2017	Mar 2017	Diff. Actual	ADE	ADE	ADE	ADE	ADE
School	Budget	Actual	to Budget	Rev Budget	Actual	to Budget	2016/17	2015/16	2014/15	2013/14	2012/13
Total	34,132.00	35,106.30	974.30	35,128.00	35,253.00	125.00	35,179.65	34,345.50	34,385.00	31,022.25	30,898.85

**Hamilton-Wentworth District School Board
 Summary of Elementary Enrolment
 Finance and Facilities Committee - May 11, 2017**

School	Oct 2016 Budget	Oct 2016 Actual	Diff. Actual to Budget	Mar 2017 Budget	Mar 2017 Actual	Diff. Actual to Budget	ADE 2016/17	ADE 2015/16	ADE 2014/15	ADE 2013/14	ADE 2012/13
Ancaster	1,172.50	1,153.50	(19.00)	1,135.00	1,112.00	(23.00)	1,132.75	1,138.75	1,098.63	1,056.13	1,044.25
Delta	645.75	651.25	5.50	619.00	611.25	(7.75)	631.25	678.41	739.13	673.75	676.88
Dundas Valley	928.00	924.75	(3.25)	899.00	898.75	(.25)	911.75	998.88	1,031.47	766.25	767.88
Glendale	754.25	837.50	83.25	802.50	816.50	14.00	827.00	763.48	890.13	920.38	922.75
Mountain	86.50	76.00	(10.50)	71.00	60.50	(10.50)	68.25	122.25	177.63	126.38	163.00
Nora Henderson	730.50	714.50	(16.00)	677.50	688.50	11.00	701.50	642.20	698.00	573.63	666.13
Orchard Park	969.75	952.50	(17.25)	921.00	914.75	(6.25)	933.63	960.47	981.25	1,005.88	1,077.63
Saltfleet	1,220.00	1,180.50	(39.50)	1,141.50	1,119.75	(21.75)	1,150.13	1,138.69	1,119.38	1,159.00	1,190.13
Sherwood	1,067.00	1,070.00	3.00	1,014.50	1,000.25	(14.25)	1,035.13	969.90	1,016.13	993.63	1,055.13
Sir Allan MacNab	1,021.00	987.25	(33.75)	953.50	974.50	21.00	980.88	1,061.92	1,097.50	863.38	839.88
Sir John A Macdonald	1,000.00	977.50	(22.50)	947.00	968.50	21.50	973.00	920.72	1,023.27	1,089.50	1,137.13
Sir Winston Churchill	738.75	752.50	13.75	700.00	710.25	10.25	731.38	786.14	840.50	919.76	1,039.50
Waterdown	1,126.00	1,146.75	20.75	1,098.50	1,134.50	36.00	1,140.63	1,148.28	1,157.29	1,109.38	1,096.13
Westdale	1,158.75	1,295.00	136.25	1,253.50	1,252.25	(1.25)	1,273.63	1,344.25	1,556.50	1,615.75	1,627.50
Westmount	1,426.00	1,422.00	(4.00)	1,347.00	1,403.00	56.00	1,412.50	1,438.84	1,456.40	1,470.00	1,455.63
Alter Ed - Combined	262.75	240.00	(22.75)	238.50	277.00	38.50	258.50	278.51	263.50	246.38	275.25
Closed:											
Hill Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	625.88	720.13
Parkside	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	354.75	429.75
Parkview	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	213.13	233.50
Total	14,307.50	14,381.50	74.00	13,819.00	13,942.25	123.25	14,161.88	14,391.69	15,146.71	15,782.94	16,418.18