



Groton School Facilities Initiative

Existing Conditions

February 14, 2013





Introduction

Demographics

- ✓ Population
- ✓ School-Aged Population
- ✓ Household Sizes
- ✓ Live Births



Housing

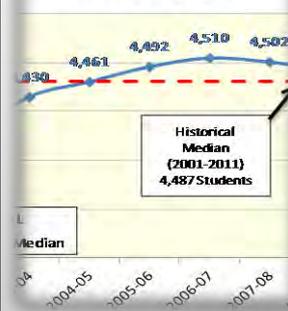
- ✓ Change in Number of Units
- ✓ Development Potential
- ✓ Projected Growth



Enrollment Patterns and Projections

- ✓ Enrollment Trends
- ✓ By School
- ✓ By Grade

Historical Enrollment Region 15 Schools (K-12) 2001-02 to 2011-12





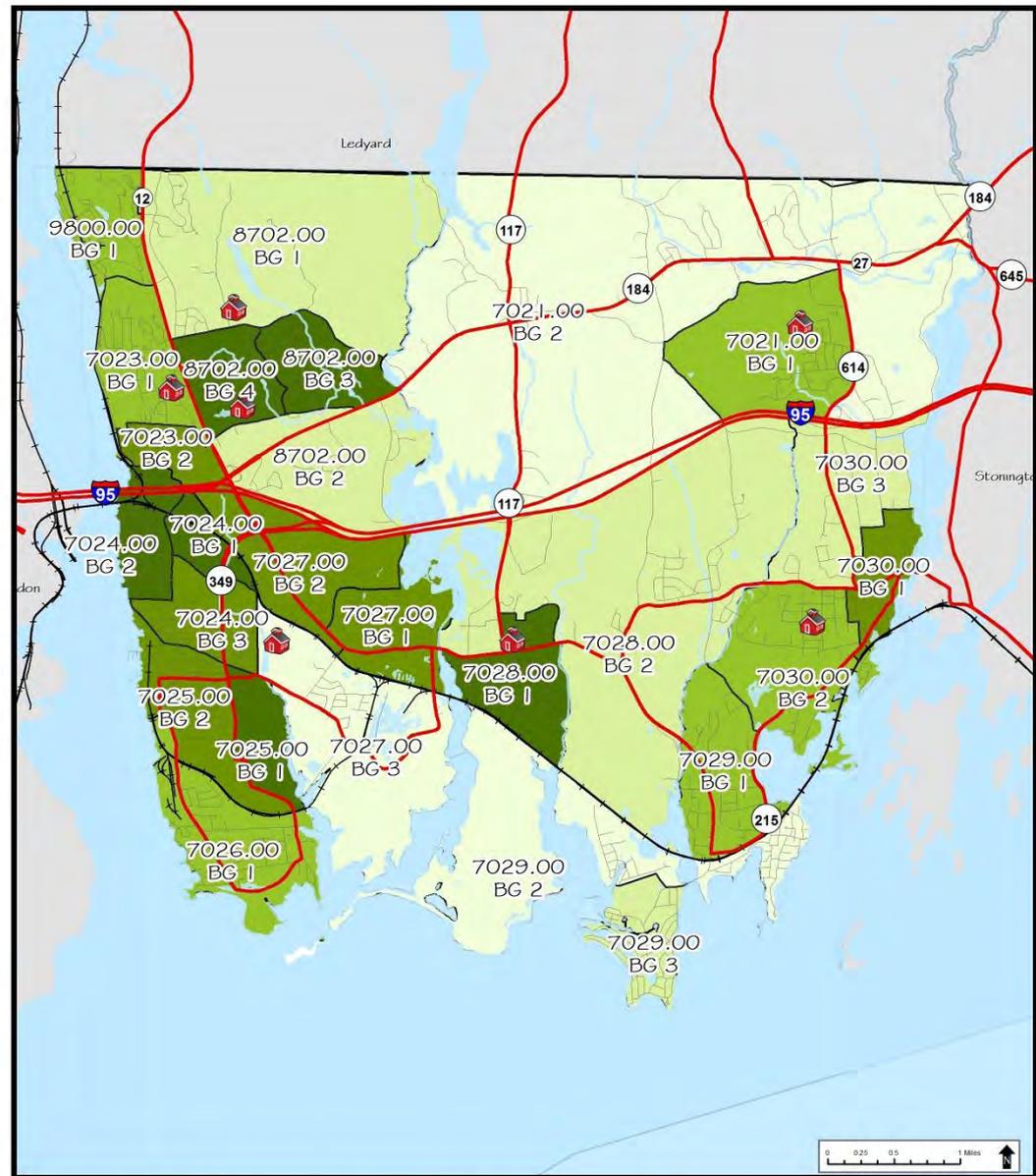
Demographics



- ✓ Population
- ✓ School-Aged Population
- ✓ Household Sizes
- ✓ Live Births



2010 Population Density by Census Block Group



Groton Public Schools
Redistricting Plan

2010 Population Density
by Block Group

People Per Square Mile

- 0 - 433.3
- 433.4 - 1182.3
- 1182.4 - 2330.0
- 2330.1 - 2992.8
- 2992.9 - 7452.8



Source:
FEMA, Social Census Blocklines, Street Centerlines
Town of Groton Geographic Information Systems Dept.
Esri/ArcGIS, Connecticut Department of Environmental
Protection, USGS, US Census Bureau, US Census Bureau
Production User's Manual for ArcGIS (2011)
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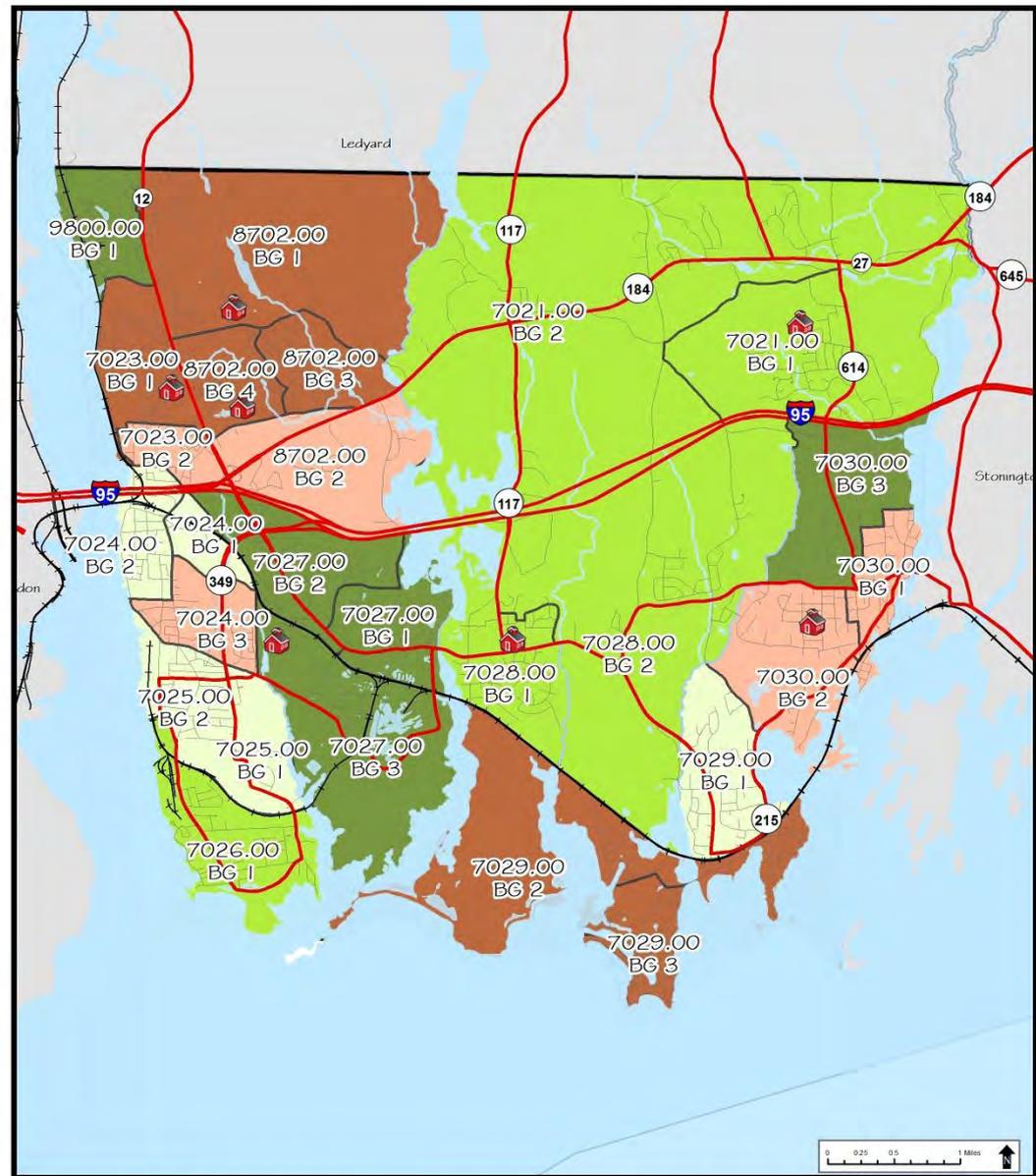
June 2012





Total Population Change

Census Block Group		Total Population		% Change
2000	2010	2000	2010	
7021.00 BG 1, 7021.00 BG 9	7021.00 BG 1, 7021.00 BG 2	3,987	4,496	12.8%
7023.00 BG 1	7023.00 BG 1	1,516	1,378	-9.1%
7023.00 BG 2	7023.00 BG 2	781	785	0.5%
7024.00 BG 1, 7024.00 BG 2	7024.00 BG 1, 7024.00 BG 2	2,223	2,288	2.9%
7024.00 BG 3	7024.00 BG 3	1,313	1,239	-5.6%
7025.00 BG 1	7025.00 BG 1	2,600	2,683	3.2%
7025.00 BG 2, 7025.00 BG 3	7025.00 BG 2	2,018	2,065	2.3%
7026.00 BG 1, 7026.00 BG 2	7026.00 BG 1	1,856	2,114	13.9%
7027.00 BG 1, 7027.00 BG 9	7027.00 BG 1, 7027.00 BG 2, 7027.00 BG 3	4,315	4,946	14.6%
7028.00 BG 1	7028.00 BG 1	1,864	1,991	6.8%
7028.00 BG 9	7028.00 BG 2	1,961	2,088	6.5%
7029.00 BG 1	7029.00 BG 1	1,142	1,171	2.5%
7029.00 BG 2, 7029.00 BG 4	7029.00 BG 2	893	784	-12.2%
7029.00 BG 3	7029.00 BG 3	667	518	-22.3%
7030.00 BG 1	7030.00 BG 1	1,288	1,238	-3.9%
7030.00 BG 2	7030.00 BG 2	1,568	1,540	-1.8%
7030.00 BG 3	7030.00 BG 3	980	1,141	16.4%
7022.02 BG 2	8702.00 BG 1	1,794	1,321	-26.4%
7022.01 BG 1	8702.00 BG 2	999	987	-1.2%
7022.02 BG 1	8702.00 BG 3, 8702.00 BG 4	4,699	3,249	-30.9%
7031.00 BG 9	9800.00 BG 1	1,494	2,093	40.1%
TOTAL:		39,958	40,115	0.4%



Groton Public Schools
Redistricting Plan

Total Population Change
 2000 to 2010
 by Block Group

Percent Change (2000-2010)

- 30.9% - -9.1%
- 9.0% - 0.5%
- 0.6% - 3.2%
- 3.3% - 13.9%
- 14.0% - 40.1%

Source:
 * Census, School Census Brochure, Street Centerlines
 * Town of Groton Geographic Information Systems Dept.
 * Esri/ArcGIS Online, Connecticut Department of Environmental
 Protection, Map 4 Geographic Information Center (2012)

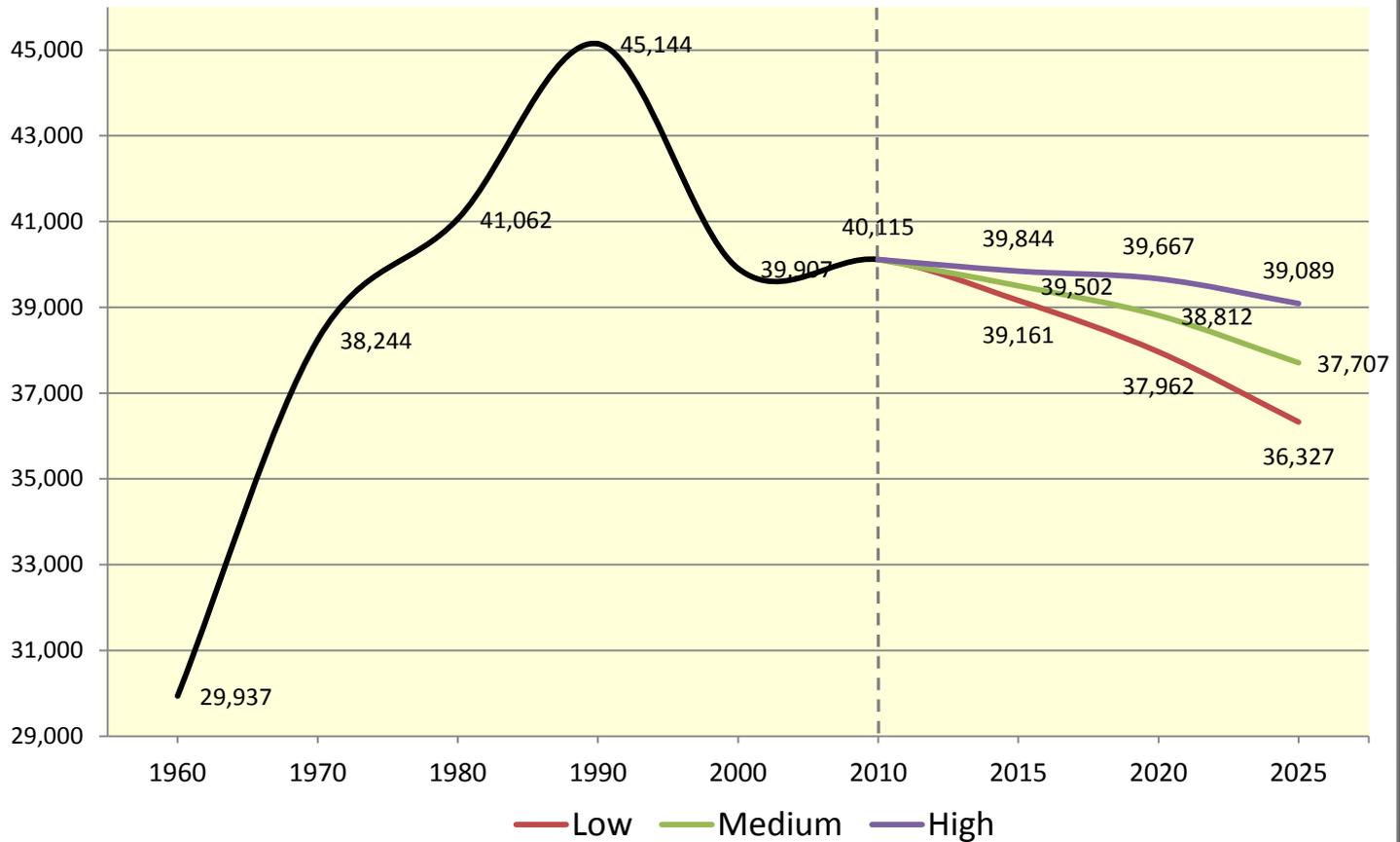
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 Timothy Robinson
 and Hollywood Miller

June 2012 **MILONE & MACBROOM**

Population Projections

Groton Historic and Projected Population 1960 - 2025

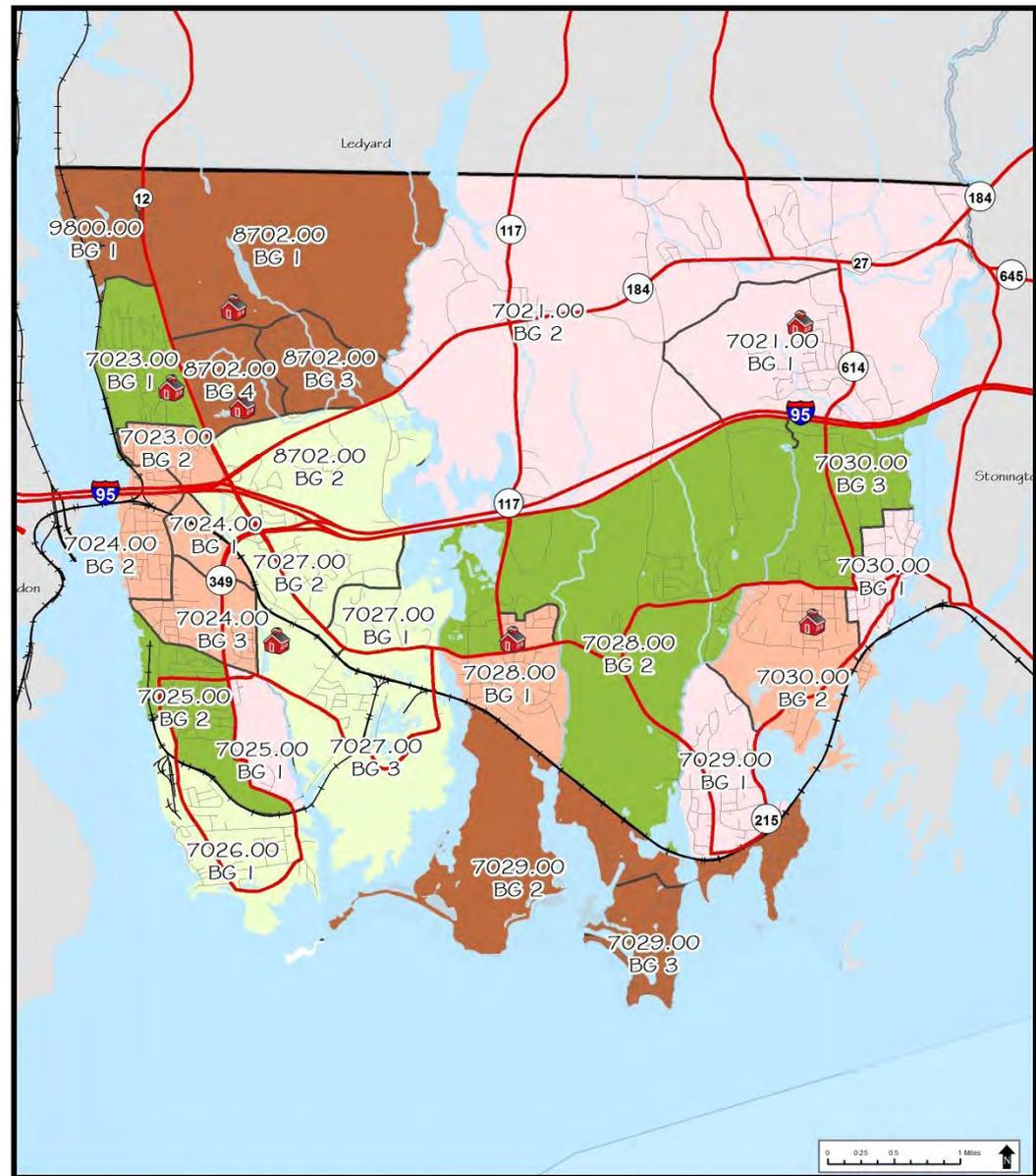


Source: U.S. Census, Projections from CT State Data Center and UCONN, June 2012



School Age Population Change

Census Block Group		School Age Population		% Change
2000	2010	2000	2010	
7021.00 BG 1, 7021.00 BG 9	7021.00 BG 1, 7021.00 BG 2	820	781	-4.8%
7023.00 BG 1	7023.00 BG 1	255	264	3.5%
7023.00 BG 2	7023.00 BG 2	198	160	-19.2%
7024.00 BG 1, 7024.00 BG 2	7024.00 BG 1, 7024.00 BG 2	323	307	-5.0%
7024.00 BG 3	7024.00 BG 3	272	241	-11.4%
7025.00 BG 1	7025.00 BG 1	616	609	-1.1%
7025.00 BG 2, 7025.00 BG 3	7025.00 BG 2	100	354	254.0%
7026.00 BG 1, 7026.00 BG 2	7026.00 BG 1	214	216	0.9%
7027.00 BG 1, 7027.00 BG 9	7027.00 BG 1, 7027.00 BG 2, 7027.00 BG 3	499	499	0.0%
7028.00 BG 1	7028.00 BG 1	473	439	-7.2%
7028.00 BG 9	7028.00 BG 2	410	420	2.4%
7029.00 BG 1	7029.00 BG 1	201	192	-4.5%
7029.00 BG 2, 7029.00 BG 4	7029.00 BG 2	138	103	-25.4%
7029.00 BG 3	7029.00 BG 3	94	50	-46.8%
7030.00 BG 1	7030.00 BG 1	157	150	-4.5%
7030.00 BG 2	7030.00 BG 2	353	277	-21.5%
7030.00 BG 3	7030.00 BG 3	168	207	23.2%
7022.02 BG 2	8702.00 BG 1	290	212	-26.9%
7022.01 BG 1	8702.00 BG 2	113	114	0.9%
7022.02 BG 1	8702.00 BG 3, 8702.00 BG 4	1,485	712	-52.1%
7031.00 BG 9	9800.00 BG 1	549	427	-22.2%
TOTAL:		7,728	6,734	-12.9%



Groton Public Schools Redistricting Plan

School Age Population (5-19) Change
2000 to 2010
by Block Group

Percent Change (2000-2010)

- 52.1% - -22.2%
- 22.1% - -5.0%
- 4.9% - -1.1%
- 1.0% - 0.9%
- 1.0% - 254.0%

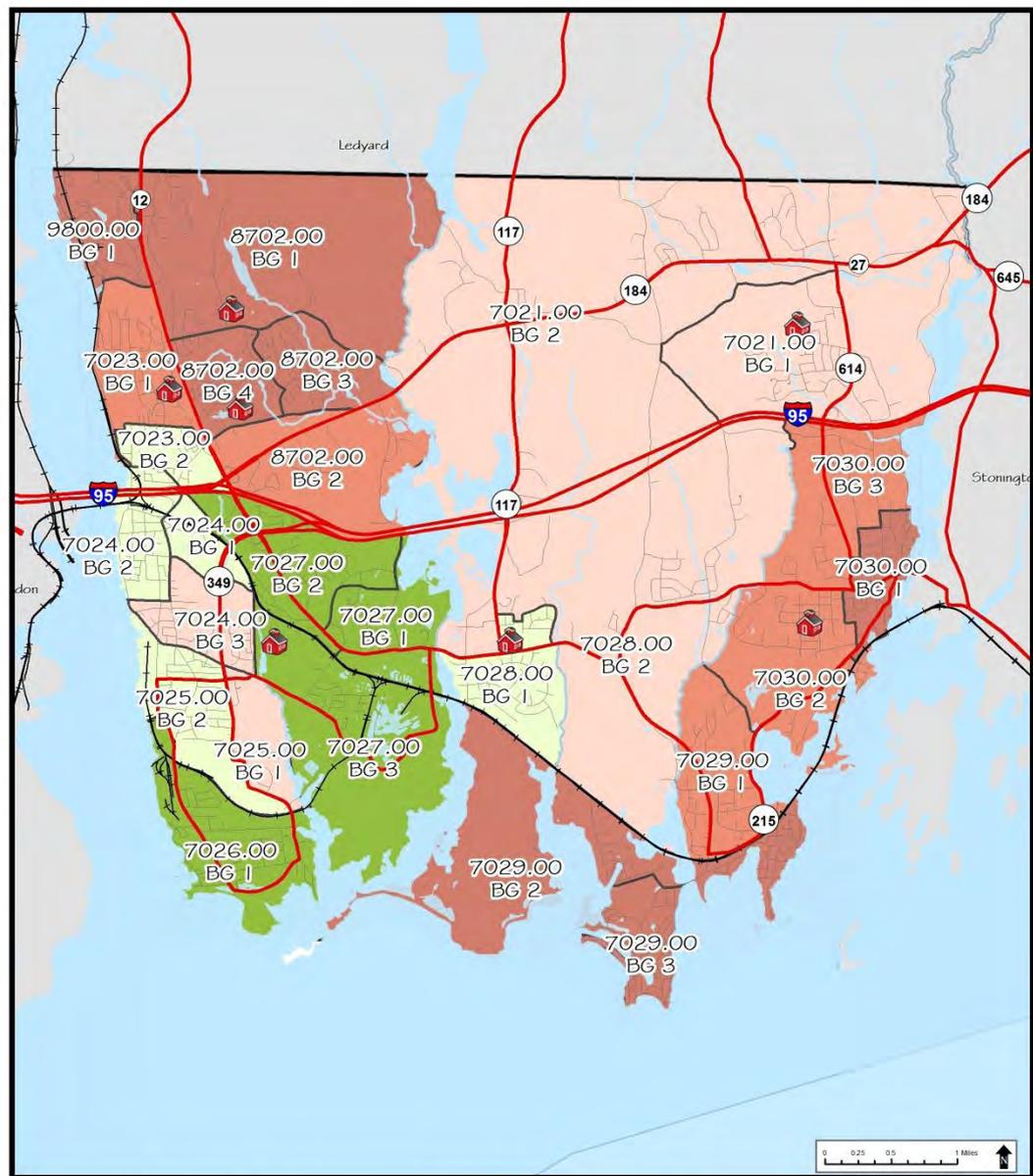
Source:
Groton School District Boundaries, Street Centerlines
Town of Groton Geographic Information Systems Dept.
Esri/ArcGIS Online, Connecticut Department of Environmental
Protection Map & Geographic Information Center (2012)

This map was developed for use as a planning
document. Distortions may still be present.



Females of Child-Bearing Age

Census Block Group		Females of Child-Bearing Age		% Change
2000	2010	2000	2010	
7021.00 BG 1, 7021.00 BG 9	7021.00 BG 1, 7021.00 BG 2	643	621	-3.4%
7023.00 BG 1	7023.00 BG 1	329	274	-16.7%
7023.00 BG 2	7023.00 BG 2	152	169	11.2%
7024.00 BG 1, 7024.00 BG 2	7024.00 BG 1, 7024.00 BG 2	435	439	0.9%
7024.00 BG 3	7024.00 BG 3	263	233	-11.4%
7025.00 BG 1	7025.00 BG 1	707	668	-5.5%
7025.00 BG 2, 7025.00 BG 3	7025.00 BG 2	368	381	3.5%
7026.00 BG 1, 7026.00 BG 2	7026.00 BG 1	125	140	12.0%
7027.00 BG 1, 7027.00 BG 9	7027.00 BG 1, 7027.00 BG 2, 7027.00 BG 3	703	874	24.3%
7028.00 BG 1	7028.00 BG 1	331	323	-2.4%
7028.00 BG 9	7028.00 BG 2	302	282	-6.6%
7029.00 BG 1	7029.00 BG 1	119	99	-16.8%
7029.00 BG 2, 7029.00 BG 4	7029.00 BG 2	100	62	-38.0%
7029.00 BG 3	7029.00 BG 3	67	36	-46.3%
7030.00 BG 1	7030.00 BG 1	215	160	-25.6%
7030.00 BG 2	7030.00 BG 2	200	173	-13.5%
7030.00 BG 3	7030.00 BG 3	119	98	-17.6%
7022.02 BG 2	8702.00 BG 1	538	361	-32.9%
7022.01 BG 1	8702.00 BG 2	184	146	-20.7%
7022.02 BG 1	8702.00 BG 3, 8702.00 BG 4	1,137	871	-23.4%
7031.00 BG 9	9800.00 BG 1	139	29	-79.1%
TOTAL:		7,176	6,439	-10.3%



Groton Public Schools
Redistricting Plan
 Change in Females
 of Child-Bearing Age (15-39)
 2000 to 2010
 by Block Group

Percent Change (2000-2010)

- 79.1% - -23.4%
- 23.3% - -13.5%
- 13.4% - -3.4%
- 3.3% - 11.2%
- 11.3% - 24.3%

Source:
 Census, School Census Blockmaps, Street Centerlines
 Town of Groton Geographic Information Systems Dept.
 Esri/ArcGIS, Connecticut Department of Environmental
 Protection Map & Geographic Information Center (2012)

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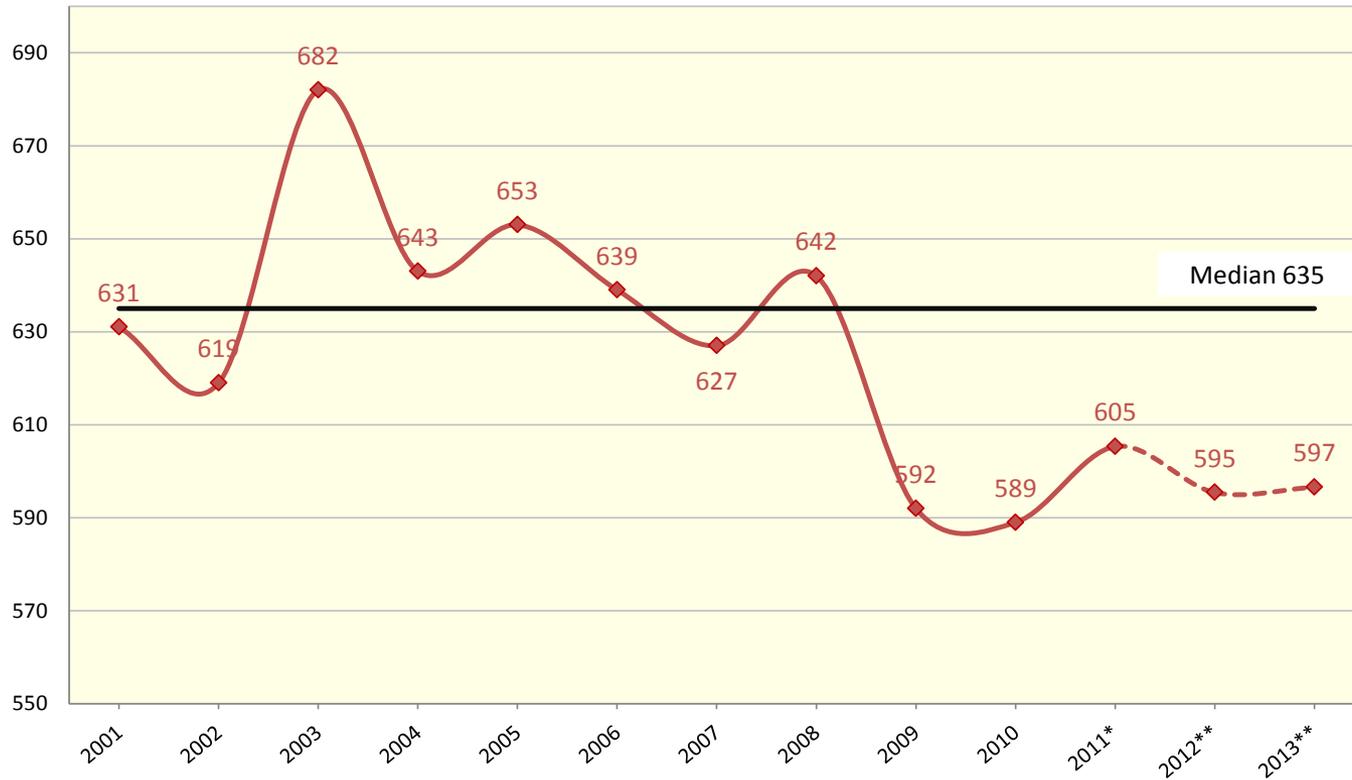
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June 2012



Births

Groton Births Actual and Projected 2001 through 2013



*2011 is a preliminary figure, as of 6/12.

** Projected

Source: CT Department of Health Vital Statistics

This study was approved by the DPH HIC. Certain data used in this study were obtained from DPH. MMI assumes full responsibility for analyses and interpretation of this data.

Births by Elementary School

Births by Elementary School District 2001-2010											Projections		
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011*	2012**	2013**
Catherine Kolnaski	136	109	98	93	111	84	105	112	71	101	92	88	94
Charles Barnum	66	80	95	95	66	82	75	87	78	87	82	82	84
Claude Chester	82	74	88	83	108	100	111	92	99	101	99	100	100
Mary Morrisson	58	39	47	76	66	71	56	72	109	78	85	91	85
North East Academy	64	69	83	65	76	84	70	95	71	67	70	69	69
Pleasant Valley	178	196	203	180	182	169	172	162	135	124	145	135	134
S.B. Butler	47	52	68	51	44	49	38	22	29	31	35	32	33
TOTAL	631	619	682	643	653	639	627	642	592	589	605	595	597

- Pleasant Valley and S.B. Butler Have Experienced Significant Declines in Annual Births
- Northeast Academy and Charles Barnum Have Had Relatively Stable Numbers of Births



Demographics Summary

- Flat Overall Population (0.4% Increase from 2000) with Significant Changes at Neighborhood Level
- Population Projected to Decline Over Next 10 Years
- School-Age Population Declined Almost 13% from 2000 to 2010 with Losses Spread Throughout Neighborhoods
- Number of Females of Child-Bearing Age Generally Decreased Throughout the Community



Housing



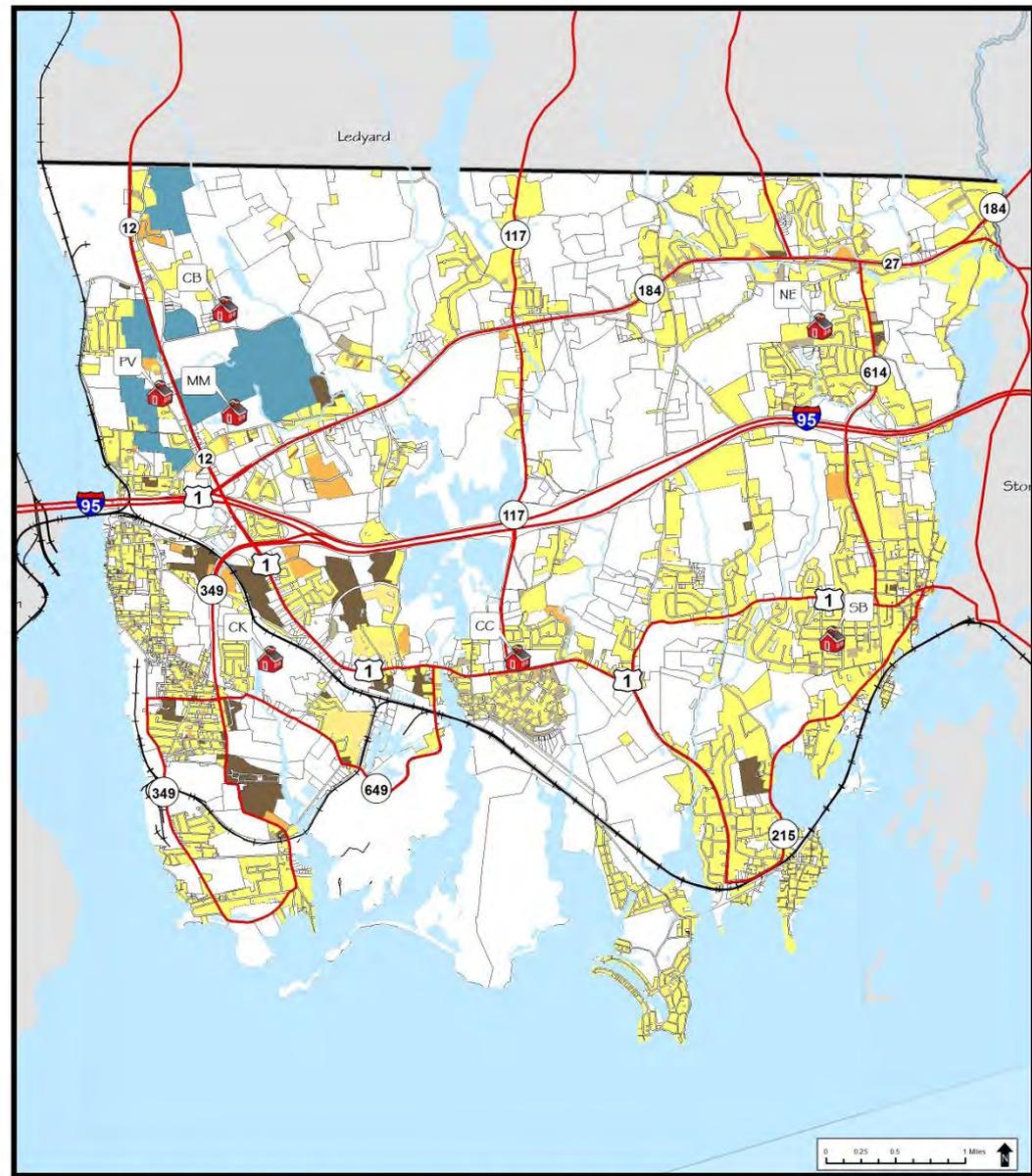
- ✓ **Change in Number of Units**
- ✓ **Development Potential**
- ✓ **Projected Growth**



Residential Lands

➤ 27% of Town residential land use

➤ Single Family Residential - 74% of all residential land



 **Groton Public Schools**
Redistricting Plan

Residential Lands

- Residential Land Use**
- Single Family
 - Two-Three Family
 - Apartment/Multi-Family
 - Condominium
 - Mobile Home Park
 - Mixed Use Residential
 - Military Housing

Source:
1) Town of Groton, School District Boundaries, Street Centerlines
Town of Groton Geographic Information Systems Dept.
2) BaseMap Data, Connecticut Department of Environmental
Production Map & Geographic Information Center (2012)
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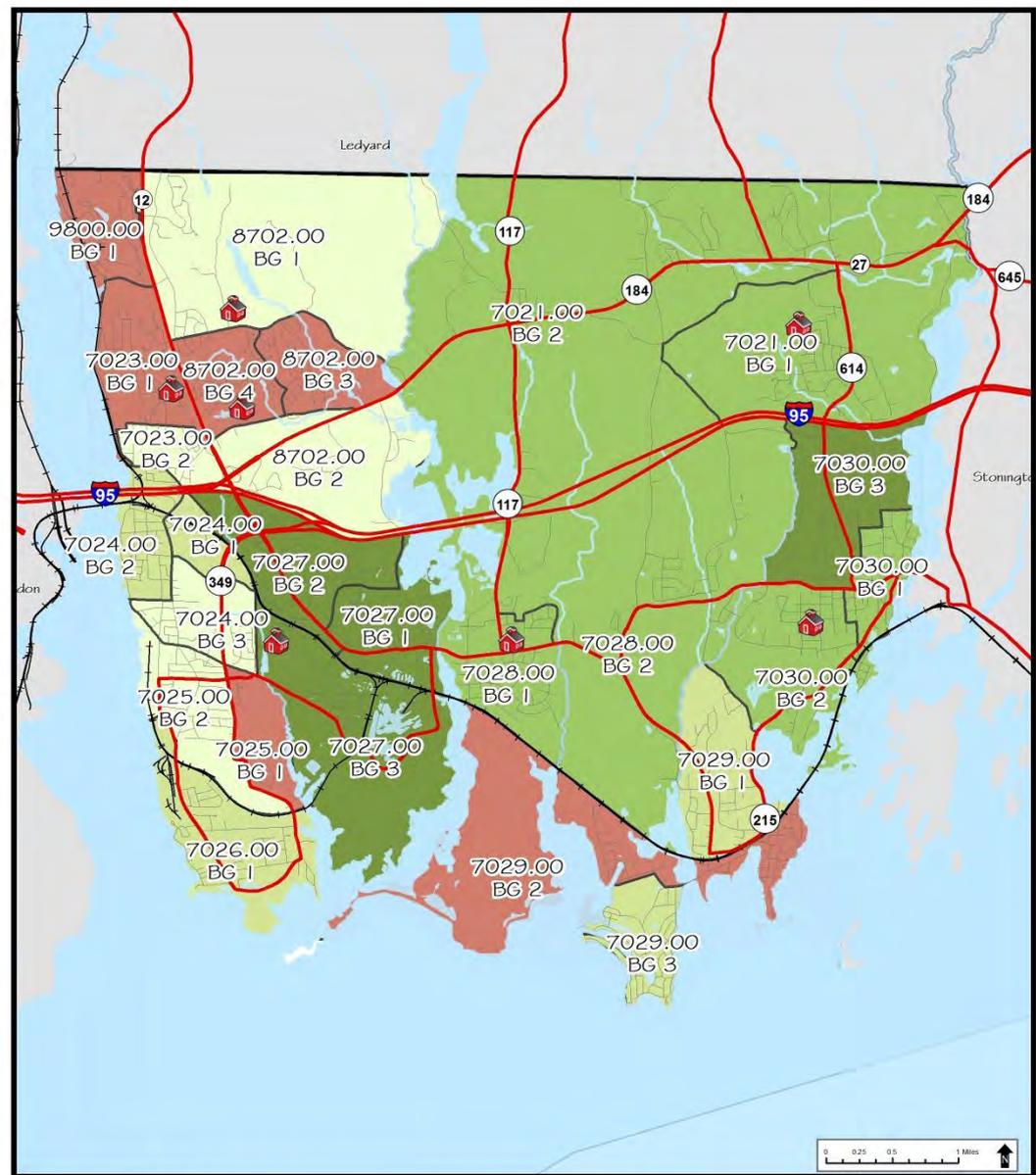
July 2012





Housing Unit Change

Census Block Group		Housing Units		% Change
2000	2010	2000	2010	
7021.00 BG 1, 7021.00 BG 9	7021.00 BG 1, 7021.00 BG 2	1,615	1,906	18.0%
7023.00 BG 1	7023.00 BG 1	568	496	-12.7%
7023.00 BG 2	7023.00 BG 2	296	302	2.0%
7024.00 BG 1, 7024.00 BG 2	7024.00 BG 1, 7024.00 BG 2	1,233	1,313	6.5%
7024.00 BG 3	7024.00 BG 3	559	575	2.9%
7025.00 BG 1	7025.00 BG 1	1,159	1,167	0.7%
7025.00 BG 2, 7025.00 BG 3	7025.00 BG 2	1,060	1,078	1.7%
7026.00 BG 1, 7026.00 BG 2	7026.00 BG 1	558	575	3.0%
7027.00 BG 1, 7027.00 BG 9	7027.00 BG 1, 7027.00 BG 2, 7027.00 BG 3	2,381	2,945	23.7%
7028.00 BG 1	7028.00 BG 1	726	778	7.2%
7028.00 BG 9	7028.00 BG 2	816	902	10.5%
7029.00 BG 1	7029.00 BG 1	550	574	4.4%
7029.00 BG 2, 7029.00 BG 4	7029.00 BG 2	458	460	0.4%
7029.00 BG 3	7029.00 BG 3	589	623	5.8%
7030.00 BG 1	7030.00 BG 1	725	782	7.9%
7030.00 BG 2	7030.00 BG 2	625	676	8.2%
7030.00 BG 3	7030.00 BG 3	374	473	26.5%
7022.02 BG 2	8702.00 BG 1	604	615	1.8%
7022.01 BG 1	8702.00 BG 2	570	580	1.8%
7022.02 BG 1	8702.00 BG 3, 8702.00 BG 4	1,311	1,156	-11.8%
7031.00 BG 9	9800.00 BG 1	58	2	-96.6%
TOTAL:		16,835	17,978	6.8%



Groton Public Schools
Redistricting Plan

Change in Housing Units
 2000 to 2010
 by Block Group

Percent Change (2000-2010)

- 96.6% - 0.7%
- 0.8% - 2.9%
- 3.0% - 6.5%
- 6.6% - 18.0%
- 18.1% - 26.5%

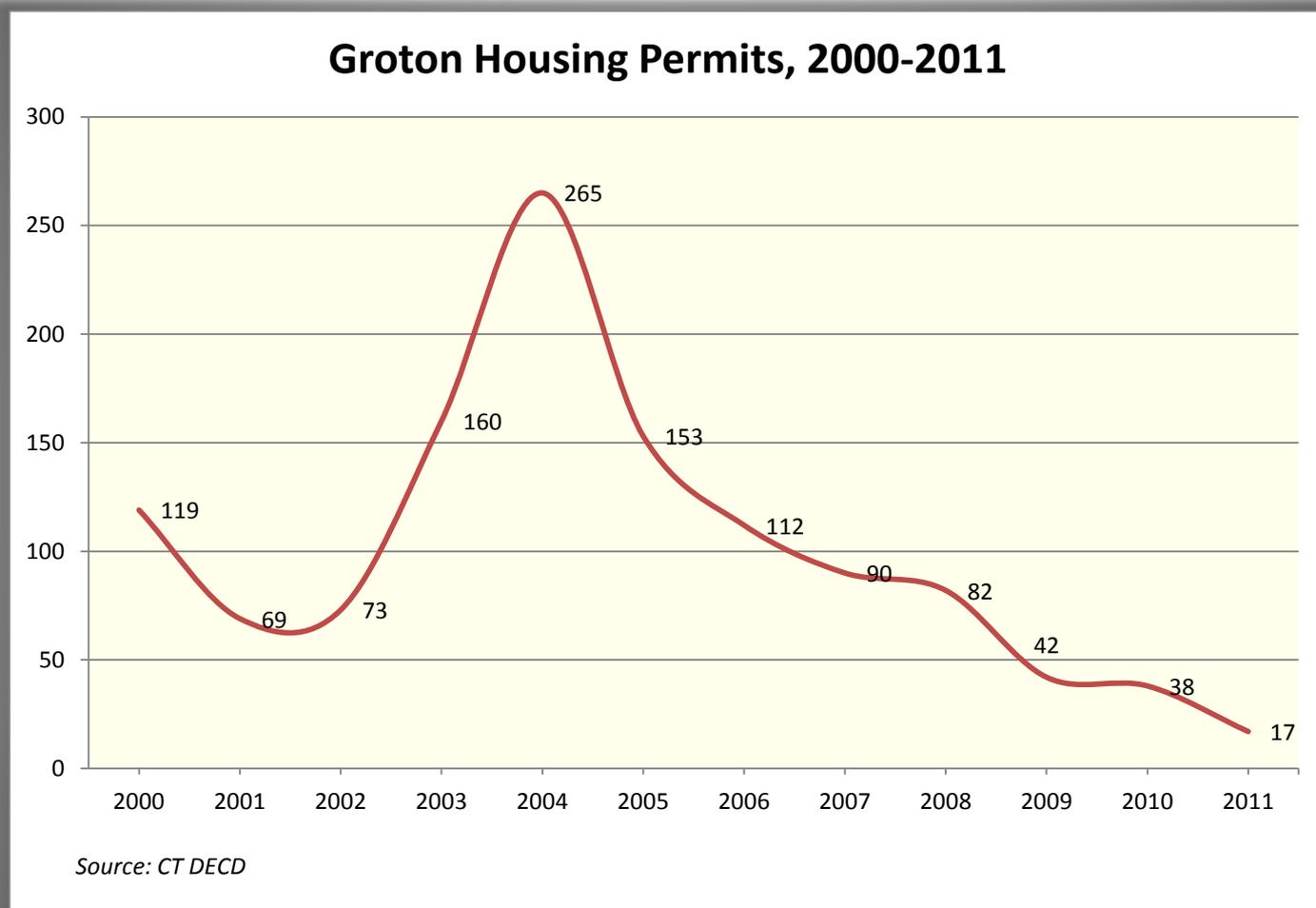
Source: Groton School District Boundaries, Street Centerlines, Town of Groton Geographic Information System Data.
 *Boundary Data: Connecticut Department of Environmental Protection Map & Geographic Information Center (2010)
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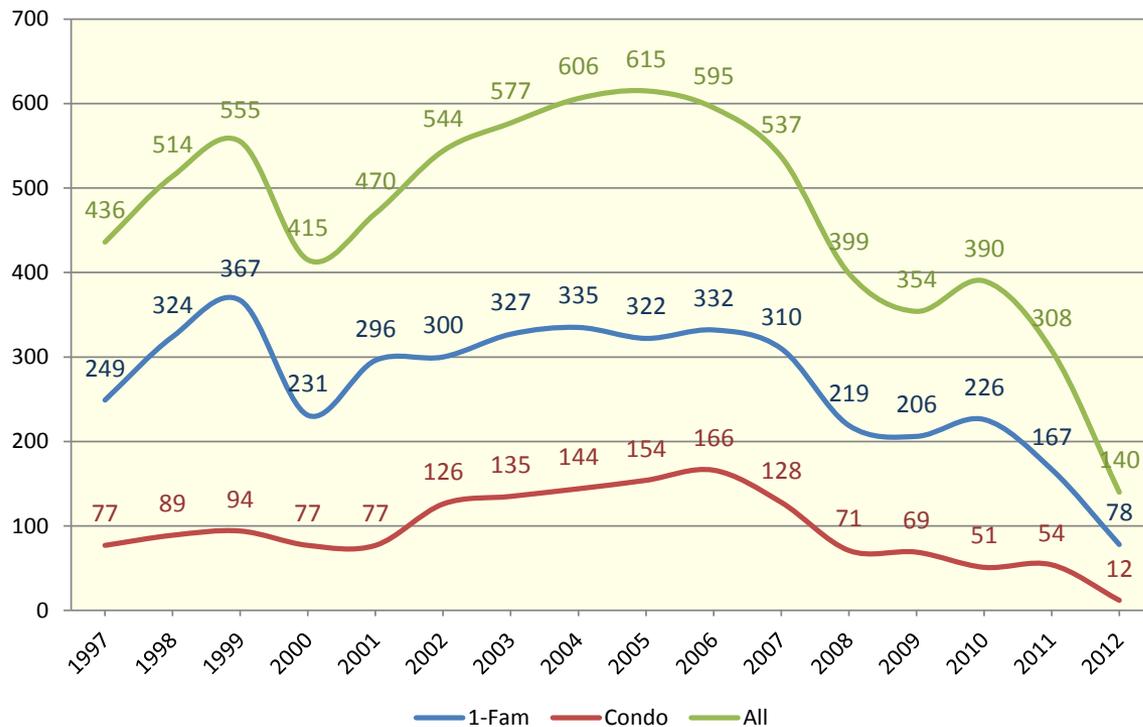


Housing Permits



Housing Sales & Foreclosures

Groton Housing Sales, 1997-2012



January - June Groton Housing Sales

Year	Period	1-Fam	Condo	All
2012	Jan - Jun	100	15	172
2011	Jan - Jun	81	29	153
2010	Jan - Jun	128	34	208
2009	Jan - Jun	90	28	158
2008	Jan - Jun	98	46	204
2007	Jan - Jun	148	67	253
2006	Jan - Jun	175	84	312
2005	Jan - Jun	165	60	295
2004	Jan - Jun	158	57	280
2003	Jan - Jun	143	52	236
2002	Jan - Jun	149	55	258

Source: The Warren Group (2012)

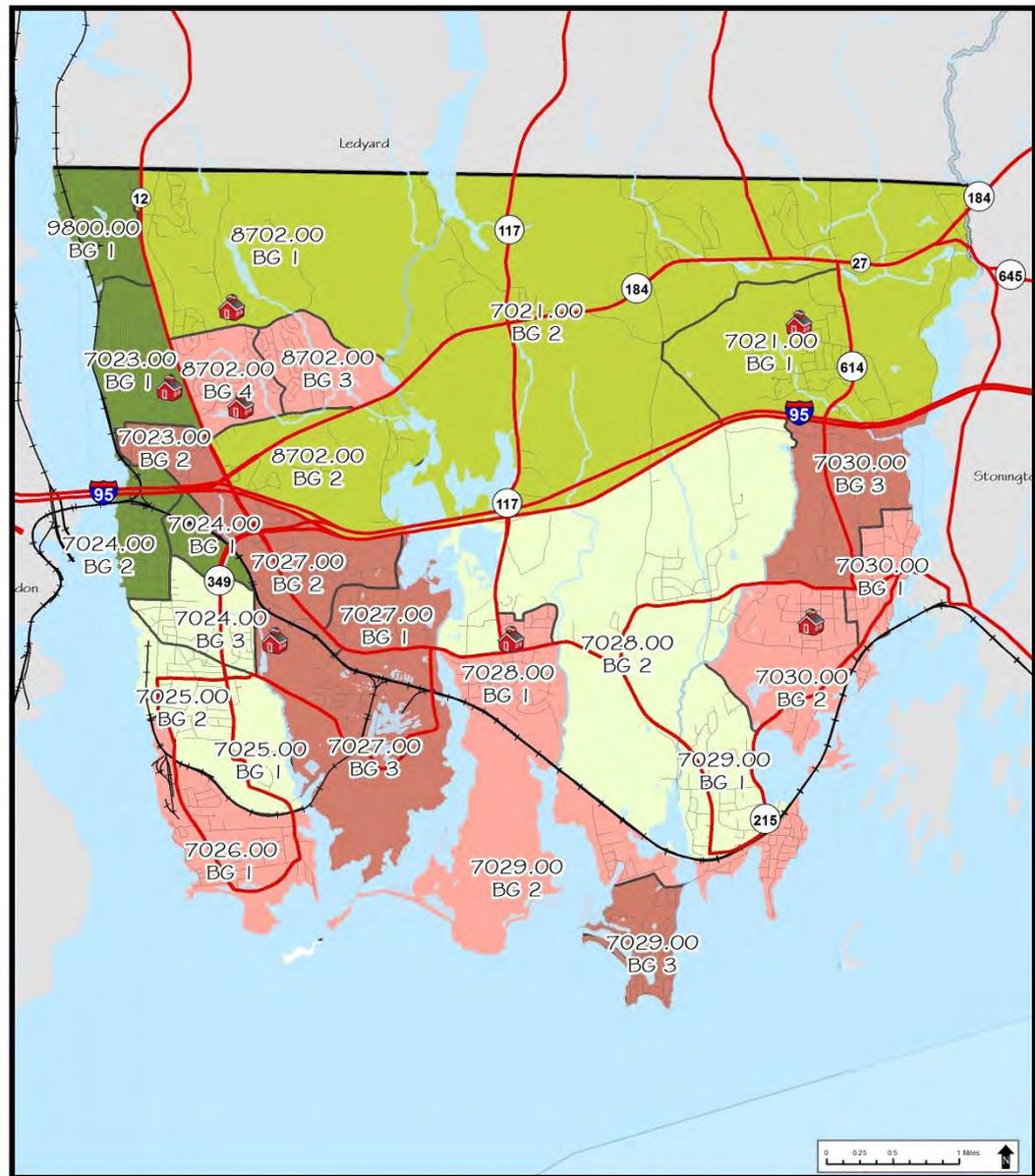
Foreclosure Listings June 1, 2012 - July 13, 2012

8 Auction
2 Pre-foreclosure/ short-sale
<u>40 Bank-owned</u>
50 Total



Owner-Occupied Unit Change

Census Block Group		% Owner-Occupied		% Change
2000	2010	2000	2010	
7021.00 BG 1, 7021.00 BG 9	7021.00 BG 1, 7021.00 BG 2	78.8%	80.2%	1.5%
7023.00 BG 1	7023.00 BG 1	34.3%	40.3%	6.0%
7023.00 BG 2	7023.00 BG 2	51.0%	37.7%	-13.3%
7024.00 BG 1, 7024.00 BG 2	7024.00 BG 1, 7024.00 BG 2	37.4%	42.1%	4.7%
7024.00 BG 3	7024.00 BG 3	52.8%	51.8%	-0.9%
7025.00 BG 1	7025.00 BG 1	8.0%	8.4%	0.4%
7025.00 BG 2, 7025.00 BG 3	7025.00 BG 2	37.5%	35.8%	-1.6%
7026.00 BG 1, 7026.00 BG 2	7026.00 BG 1	79.0%	75.8%	-3.2%
7027.00 BG 1, 7027.00 BG 9	7027.00 BG 1, 7027.00 BG 2, 7027.00 BG 3	37.6%	29.9%	-7.7%
7028.00 BG 1	7028.00 BG 1	49.0%	44.5%	-4.6%
7028.00 BG 9	7028.00 BG 2	72.9%	72.4%	-0.5%
7029.00 BG 1	7029.00 BG 1	66.9%	67.1%	0.2%
7029.00 BG 2, 7029.00 BG 4	7029.00 BG 2	65.5%	62.8%	-2.7%
7029.00 BG 3	7029.00 BG 3	39.4%	31.6%	-7.8%
7030.00 BG 1	7030.00 BG 1	50.2%	44.8%	-5.4%
7030.00 BG 2	7030.00 BG 2	87.5%	82.8%	-4.7%
7030.00 BG 3	7030.00 BG 3	86.6%	76.1%	-10.5%
7022.02 BG 2	8702.00 BG 1	8.4%	11.5%	3.1%
7022.01 BG 1	8702.00 BG 2	71.4%	71.9%	0.5%
7022.02 BG 1	8702.00 BG 3, 8702.00 BG 4	5.3%	2.7%	-2.7%
7031.00 BG 9	9800.00 BG 1	19.0%	50.0%	31.0%
TOTAL:		46.5%	45.6%	



Groton Public Schools
Redistricting Plan

Change in Owner-Occupied Units
 2000 to 2010
 by Block Group

Percent Change (2000-2010)

- 13.3% - -7.7%
- 7.6% - -2.7%
- 2.6% - 0.4%
- 0.5% - 3.1%
- 3.2% - 31.0%

Source:
 Census, School Census Blockmaps, Street Centerlines
 Town of Groton Geographic Information Systems Dept.
 Esri/ArcGIS, Connecticut Department of Environmental
 Protection, Map 4 Geographic Information Center (2012)

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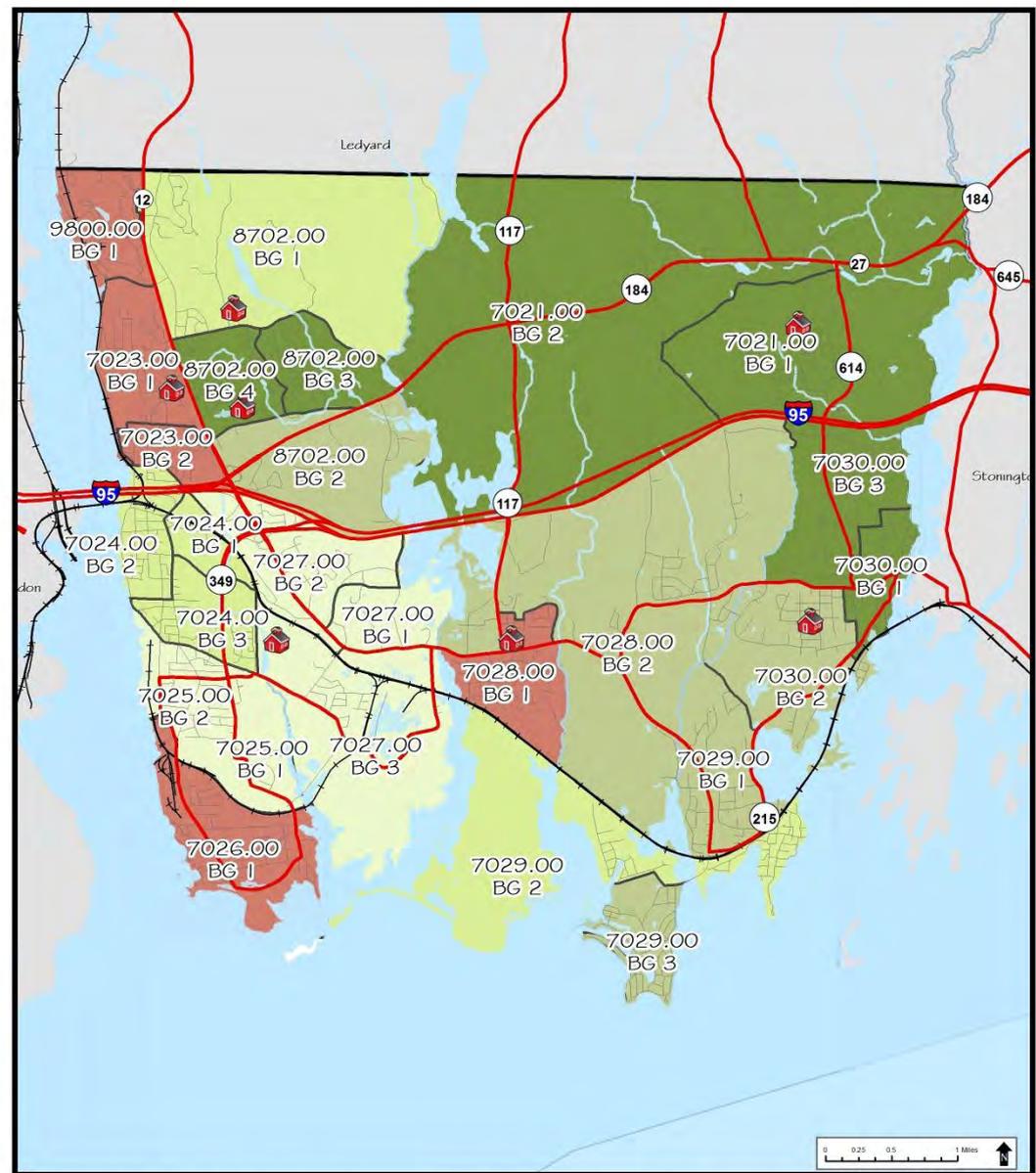
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Householders Age 65+

Census Block Group		Householders 65+		% Change
2000	2010	2000	2010	
7021.00 BG 1, 7021.00 BG 9	7021.00 BG 1, 7021.00 BG 2	297	416	40.1%
7023.00 BG 1	7023.00 BG 1	72	67	-6.9%
7023.00 BG 2	7023.00 BG 2	45	38	-15.6%
7024.00 BG 1, 7024.00 BG 2	7024.00 BG 1, 7024.00 BG 2	138	150	8.7%
7024.00 BG 3	7024.00 BG 3	75	82	9.3%
7025.00 BG 1	7025.00 BG 1	130	130	0.0%
7025.00 BG 2, 7025.00 BG 3	7025.00 BG 2	178	169	-5.1%
7026.00 BG 1, 7026.00 BG 2	7026.00 BG 1	200	189	-5.5%
7027.00 BG 1, 7027.00 BG 9	7027.00 BG 1, 7027.00 BG 2, 7027.00 BG 3	695	718	3.3%
7028.00 BG 1	7028.00 BG 1	139	129	-7.2%
7028.00 BG 9	7028.00 BG 2	210	242	15.2%
7029.00 BG 1	7029.00 BG 1	193	219	13.5%
7029.00 BG 2, 7029.00 BG 4	7029.00 BG 2	131	139	6.1%
7029.00 BG 3	7029.00 BG 3	87	112	28.7%
7030.00 BG 1	7030.00 BG 1	124	220	77.4%
7030.00 BG 2	7030.00 BG 2	123	162	31.7%
7030.00 BG 3	7030.00 BG 3	76	130	71.1%
7022.02 BG 2	8702.00 BG 1	14	15	7.1%
7022.01 BG 1	8702.00 BG 2	104	134	28.8%
7022.02 BG 1	8702.00 BG 3, 8702.00 BG 4	10	20	100.0%
7031.00 BG 9	9800.00 BG 1	3	0	-100.0%
TOTAL:		3,044	3,481	14.4%



Groton Public Schools
Redistricting Plan

Change in Householders Age 65+
2000 to 2010
by Block Group

Percent Change (2000-2010)

- 100.0% - -5.5%
- 5.4% - 3.3%
- 3.4% - 9.3%
- 9.4% - 31.7%
- 31.8% - 100.0%

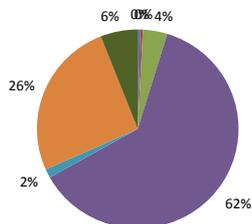
Source: Federal, State, and Local Census Data, Street Centerlines, Town of Groton Geographic Information System Data, Planning Data, Connecticut Department of Environmental Protection Map & Geographic Information Center (2012). This map was developed for use as a planning document. Distortions may not be shown.

Hydrology: Lakes, Ponds, Wetlands, and Waterways Shown

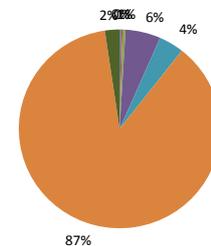
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Students by Types of Residence

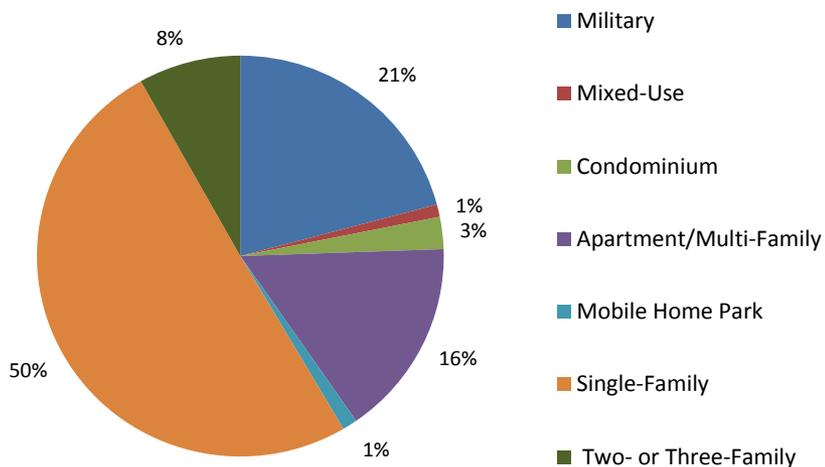
Catherine Kolnaski PreK-5



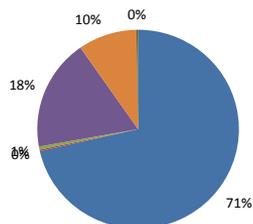
Northeast Academy PreK-5



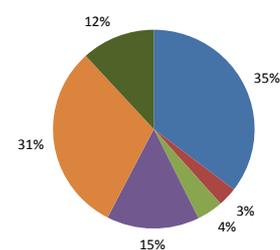
All Groton PreK-12 Students by Housing Type, 2011-12



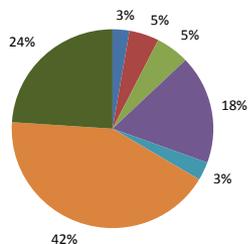
Charles Barnum PreK-5



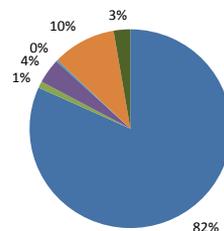
Pleasant Valley PreK-5



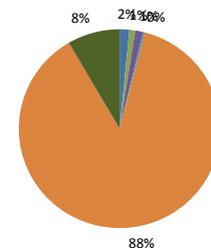
Claude Chester PreK-5



Mary Morrisson PreK-5

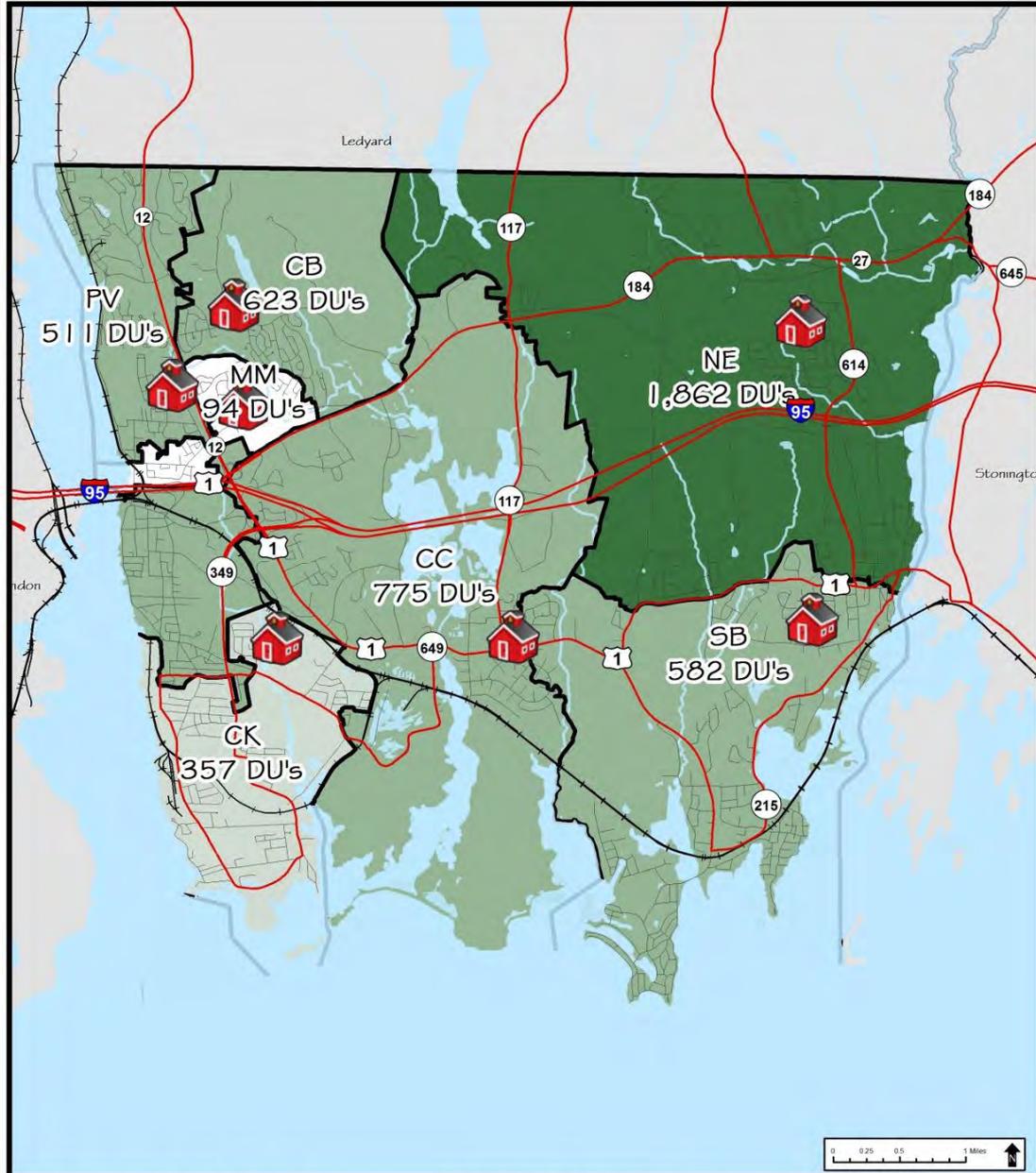


S.B. Butler PreK-5



Buildout Potential

➤ Under Existing Zoning Potential for 4,804 Additional Dwelling Units at Full Build-Out



Groton Public Schools
Redistricting Plan

Residential Development Potential

Residential Dwelling Units
Full Build-Out Under Existing Zoning

- Less than 100 DU's
- 100 - 500 DU's
- 500 - 1,000 DU's
- 1,000 - 1,750 DU's

Source:
* Parcel, School District Boundaries, Street Center-line
Town of Groton Geographic Information System Data
* BaseMap Data: Connecticut Department of Environmental
Protection Map & Geographic Information Center (2012)
The map was developed for use as a planning
document. Distortions may exist.

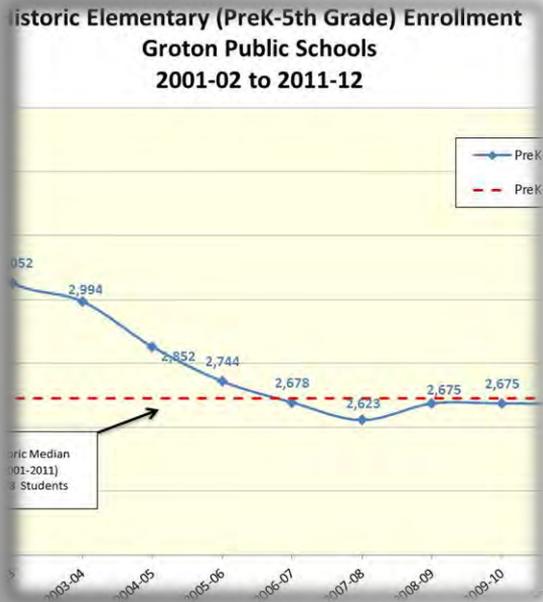


Housing Summary

- 6.8% Growth in Number of Housing Units Since 2000, Though Population Was Flat
- Housing Permit Activity Peaked in 2004, and Has Significantly Declined Since 2008
- Significant Stock of Renter-Occupied Housing Units
- 14% Increase in Households Headed by Those Age 65+ with Some Neighborhoods Experiencing Up to 40% Increase – Potential Housing Turnover
- Housing Characteristics of Existing School Districts Vary Widely



Enrollment Patterns & Projections



✓ Enrollment Trends

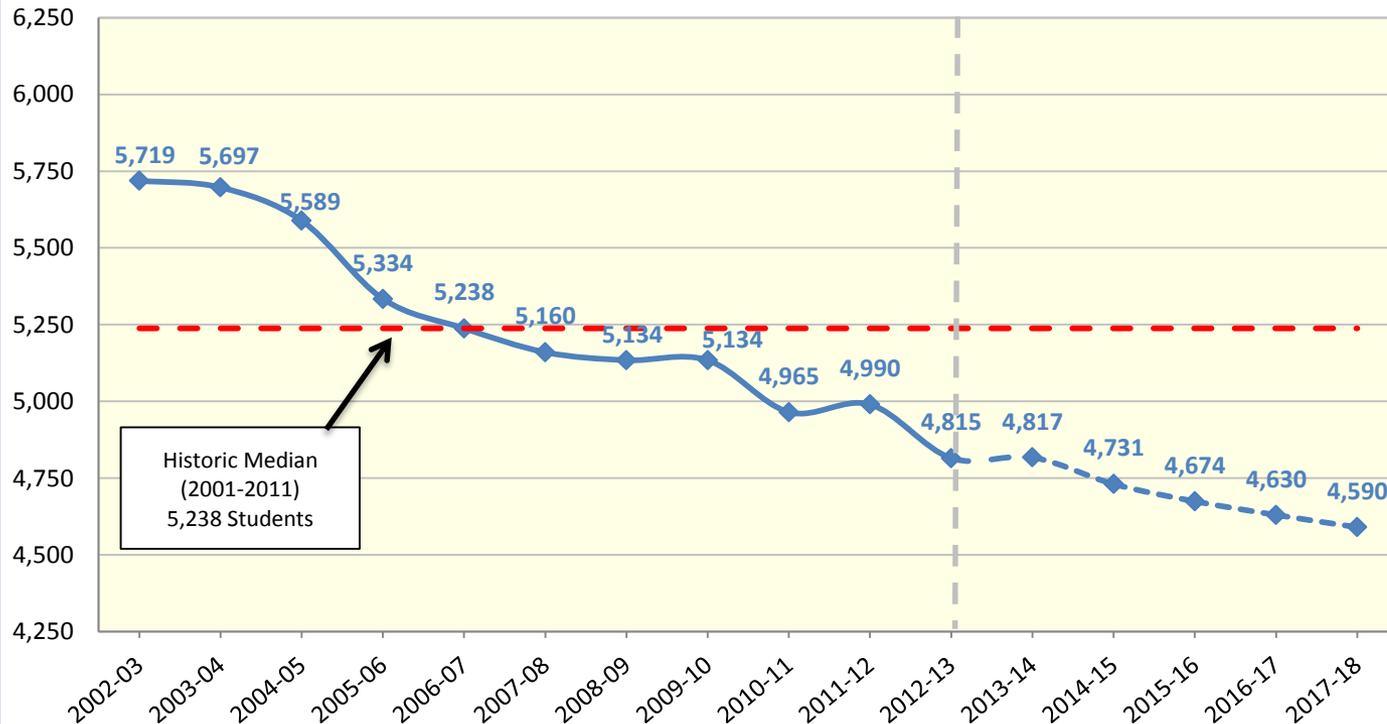
✓ By School

✓ By Grade

✓ Enrollment Projections

PreK – 12th Enrollment Projections

Groton Actual and Projected Enrollments PreK-12th Grade 2002-03 to 2017-18



Prepared for the Board of Education by Milone & MacBroom, Inc. 2012.



Persistency Ratios

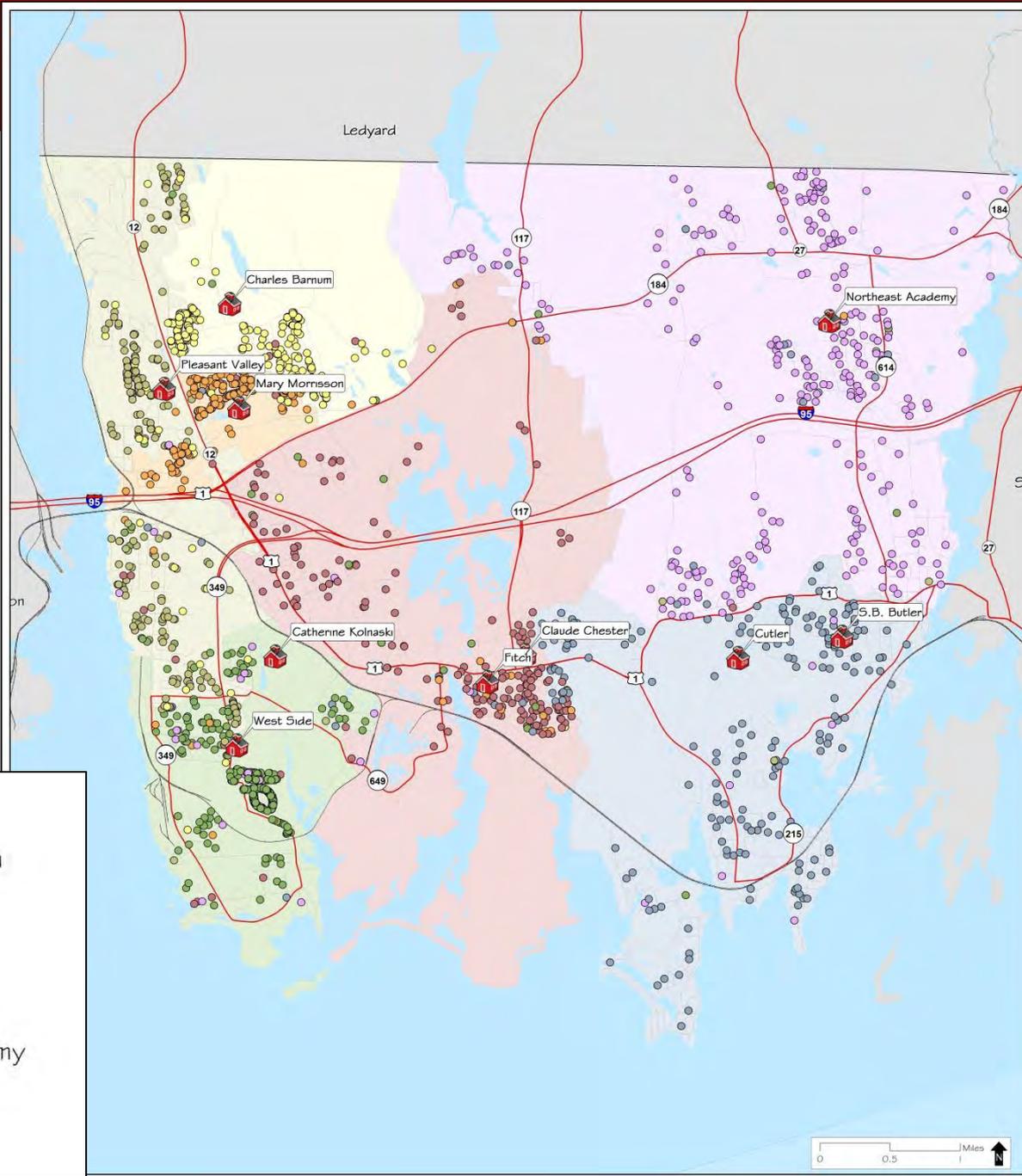
Kindergarten through 12th Grade Persistency Ratios by School Year
2001-02 to 2011-12

Year	Birth-K	K-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12
2002-03		0.906	0.885	0.885	0.966	0.936	0.984	1.004	0.955	0.864	0.980	0.900	0.962
2003-04		0.950	0.961	0.934	1.007	0.954	1.011	0.948	0.964	0.923	0.991	1.015	0.854
2004-05	0.726	0.917	0.899	0.953	0.954	0.899	0.945	0.952	0.993	0.924	0.935	0.974	0.970
2005-06	0.717	0.929	0.893	0.934	0.889	0.942	0.997	0.944	0.943	0.944	0.953	0.957	0.878
2006-07	0.705	0.909	0.963	0.947	0.974	0.952	1.005	0.972	0.972	0.912	0.951	0.950	0.856
2007-08	0.682	0.945	0.958	0.909	1.000	0.949	1.025	0.932	0.992	0.953	0.925	1.032	0.890
2008-09	0.685	0.949	0.960	0.983	0.980	0.970	0.949	0.989	0.979	0.910	0.950	0.951	0.977
2009-10	0.728	0.848	1.010	0.985	0.970	0.919	0.928	1.084	1.028	0.917	1.003	0.959	1.137
2010-11	0.662	0.944	0.956	0.898	0.936	0.929	0.986	1.009	0.893	0.839	0.953	0.977	0.903
2011-12	0.759	0.984	0.923	1.008	0.973	0.923	0.929	0.949	1.044	0.840	1.016	1.021	0.946
Long Term Average	0.7080	0.9280	0.9408	0.9436	0.9649	0.9373	0.9760	0.9783	0.9762	0.9025	0.9658	0.9736	0.9373
Last 5-Yr Average	0.7033	0.9339	0.9614	0.9566	0.9718	0.9380	0.9634	0.9925	0.9871	0.8915	0.9695	0.9881	0.9704
Last 3-Yr Average	0.7166	0.9253	0.9628	0.9636	0.9597	0.9236	0.9476	1.0140	0.9882	0.8652	0.9907	0.9858	0.9953

Source: Calculated by MMI from State Department of Education, Public School Information System (2001-2010), Groton Public Schools 2011-12, and CT Department of Public Health (CT DPH) Birth Data.

- Persistency Above 1 – in-migration; student moved in or transferred in from non-public.
- Persistency Below 1 = out-migration; student moved out or transferred out to non-public.

Elementary Enrollment



Students

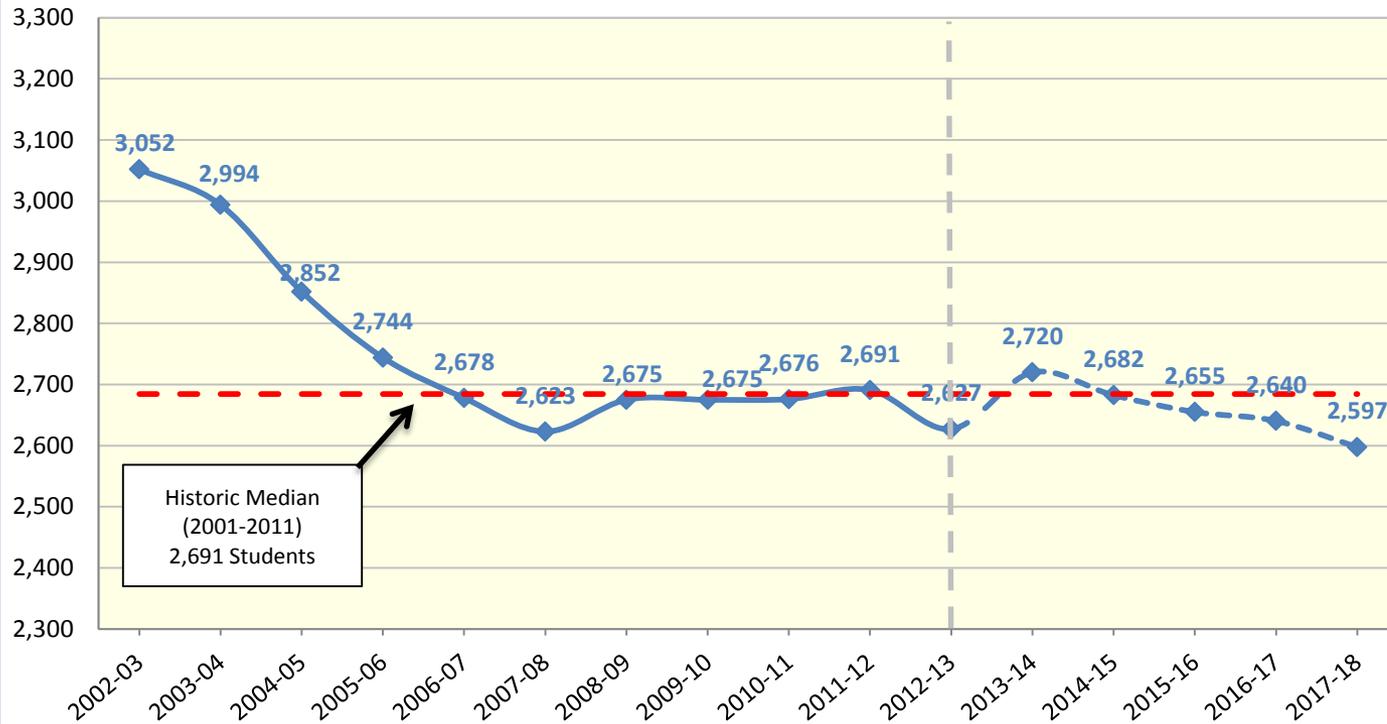


Elem. Boundaries



PreK – 5th Enrollment Projections

Groton Actual and Projected Elementary Enrollments PreK-5th Grade 2002-03 to 2017-18



Prepared for the Board of Education by Milone & MacBroom, Inc. 2012.



Persistency Ratios

3-Year Average	Birth-K	K-1	1-2	2-3	3-4	4-5
Catherine Kolnaski	1.07385	0.86057	0.94503	0.91668	0.88687	0.99104
Charles Barnum	0.91507	0.87312	0.81949	0.91721	0.82602	0.81051
Claude Chester	0.59760	0.92840	0.93459	1.07582	0.95535	0.92289
Mary Morrisson	0.88022	0.98801	0.79247	0.95078	0.89542	1.03913
Northeast Academy	0.85403	1.09440	0.96688	1.07607	1.00498	0.95713
Pleasant Valley	0.32719	1.05833	0.93174	0.99602	0.92051	0.98047
S. B. Butler	1.10156	1.01623	0.99048	1.07937	0.97475	0.96941

- Persistency Above 1 – in-migration; student moved in or transferred in from non-public.
- Persistency Below 1 = out-migration; student moved out or transferred out to non-public.

Class Sizes & Targeted Capacity

BOE Preferred Maximum Class Sizes:

- K 20
- 1st-5th 25
- 6th-12th 25

Targeted Capacity		
<u>Elementary</u>	Classrooms	# of Students based on 85%
Charles Barnum	21	428
Catherin Kolnaski	23	469
Claude Chester	25	469
Mary Morrisson	24	489
Northeast Academy	20	408
Pleasant Valley	18	367
S.B. Butler	21	428
<u>Middle</u>	Teams	# of Students based on 85%
Cutler	6 at 100	510
West Side	6 at 100	510

Projected Elementary Capacity

Projected Enrollment Relative to Targeted Capacity					
	2013-14	2014-15	2015-16	2016-17	2017-18
Charles Barnum	79%	80%	81%	82%	82%
Catherine Kolnaski	103%	103%	97%	97%	94%
Claude Chester	57%	56%	56%	55%	53%
Mary Morrisson	66%	68%	75%	78%	82%
North East Academy	101%	103%	101%	101%	98%
Pleasant Valley	93%	90%	90%	84%	83%
S.B. Butler	64%	54%	48%	46%	42%

- ✓ Capacity Reflects K-5th Grade Enrollment **Only** and does not include the Pre-K students (189 currently)

Elementary School Diversity

Percentage of Minority Elementary School Students												
	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
Charles Barnum	21.2%	18.8%	22.1%	25.3%	29.8%	30.6%	32.7%	29.3%	26.3%	32.3%	31.63%	33.92%
Catherine Kolnaski								56.4%	60.3%	66.9%	70.0%	73.4%
Claude Chester	40.7%	41.5%	43.1%	48.2%	50.0%	54.5%	51.6%	52.0%	51.0%	55.9%	60.2%	62.6%
Colonel Ledyard*	36.5%	36.2%	34.4%	31.6%	40.6%	41.2%	17.3%					
Eastern Point	48.8%	53.2%	55.3%	57.6%	55.9%	59.6%	58.1%					
Groton Heights*	27.6%	30.5%	31.7%	37.7%	35.9%	39.3%						
Mary Morrisson	23.1%	27.6%	25.2%	24.7%	21.5%	22.3%	24.1%	21.2%	23.4%	26.6%	32.2%	33.3%
Noank	12.8%	14.7%	14.7%	15.1%	15.8%	17.1%	19.6%					
Northeast Academy								22.3%	22.7%	23.8%	23.8%	23.1%
Pleasant Valley	24.6%	25.8%	27.7%	28.1%	28.9%	27.1%	31.0%	38.5%	41.7%	43.4%	44.9%	41.2%
S.B. Butler	11.0%	11.8%	12.8%	11.7%	12.4%	11.0%	12.9%	17.2%	16.6%	17.0%	19.9%	27.6%
William Seely	25.5%	19.8%										
District K-5 Average	26.0%	26.7%	28.7%	30.1%	30.6%	31.7%	32.9%	33.8%	34.6%	38.0%	40.4%	42.4%

Source: 2001-2010 data from State Department of Education Strategic School Profiles. 2010-2012 data from Groton Public Schools, with MMI calculation of district-wide average.

Impending Imbalance
Imbalanced

*Col. Ledyard Grades PK-2, Groton Heights Grades 3-5

Elementary School Socio-Economics

Percentage of School Students Eligible for Free/Reduced-Price Meals												
	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
Charles Barnum	36.5%	33.1%	39.2%	38.3%	36.9%	33.9%	28.3%	31.8%	37.6%	34.4%	31.6%	41.6%
Catherine Kolnaski								54.5%	58.8%	64.6%	66.3%	72.2%
Claude Chester	32.8%	38.4%	40.0%	44.7%	40.8%	45.0%	42.5%	42.5%	42.5%	45.4%	51.5%	61.4%
Colonel Ledyard*	21.2%	24.3%	21.3%	12.3%	24.4%	33.1%	16.5%					
Eastern Point	51.8%	54.6%	51.1%	27.3%	53.7%	55.7%	54.1%					
Groton Heights*	37.5%	31.4%	24.6%	27.5%	26.0%	34.2%						
Mary Morrisson	36.4%	23.3%	30.5%	24.9%	28.6%	30.2%	29.1%	34.4%	34.3%	40.8%	38.3%	44.6%
Noank	15.4%	7.2%	8.8%	9.6%	6.3%	5.1%	8.3%					
Northeast Academy								10.4%	16.9%	18.5%	17.9%	23.3%
Pleasant Valley	13.0%	27.0%	25.4%	25.8%	20.2%	24.2%	35.4%	26.1%	41.3%	38.4%	37.9%	42.4%
S.B. Butler	8.6%	6.4%	9.0%	6.3%	5.4%	10.1%	9.8%	5.5%	9.4%	10.1%	12.8%	19.3%
William Seely	17.9%	28.1%										
District-Wide	26.6%	28.1%	29.9%	30.5%	28.8%	31.1%	31.7%	30.2%	34.9%	36.0%	36.6%	43.9%

Source: 2000-2010 data from State Department of Education Strategic School Profiles; Groton Public Schools Enrollments 2010-11 through 2012-13. 2010-11 through 2012-13 district-wide average calculated from Oct. 1st enrollment data.

*Col. Ledyard Grades PK-2, Groton Heights Grades 3-5

Elementary Redistricting Snapshot

Scenario I - Elementary Redistricting 2012-2013 School Year

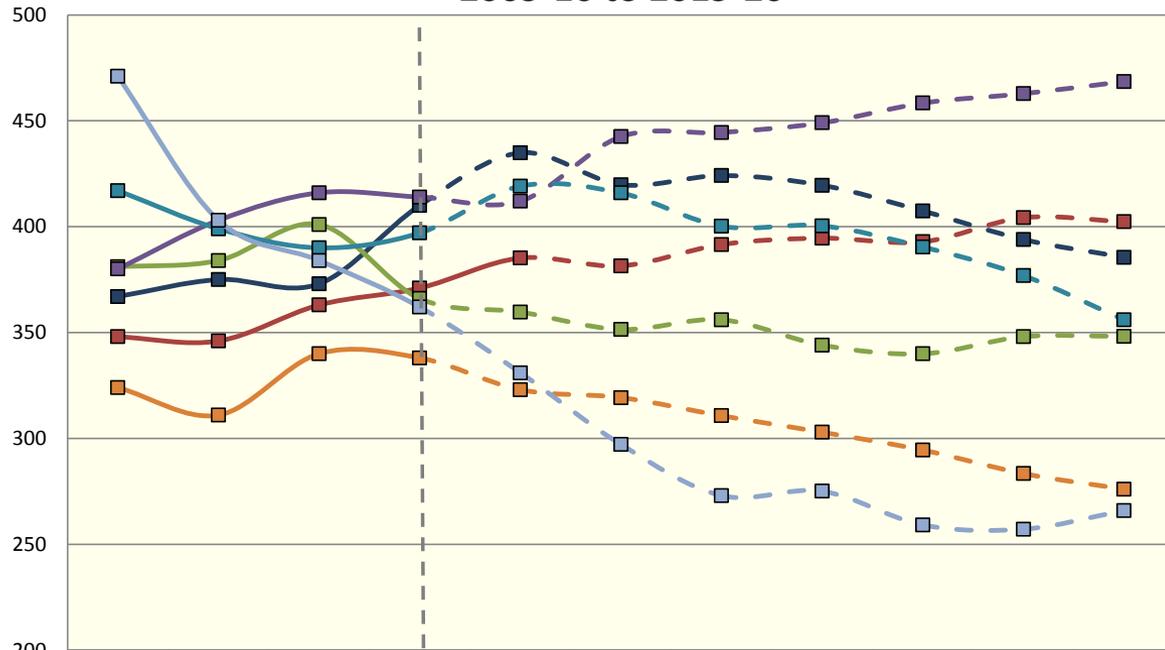
Attendance Area	Total Students*	Targeted Capacity based on 85%	Available Capacity	Minority Students*	Percent Minority	District % Minority	Racial Imbalance
Catherine Kolnaski* ¹	370	469	99	226	61.08%	42.37%	18.71%
Charles Barnum*	372	428	56	133	35.75%	42.37%	-6.62%
Claude Chester	366	469	103	226	61.75%	41.84%	19.91%
Mary Morrisson*	416	489	73	190	45.67%	42.37%	3.31%
North East Academy	397	408	11	88	22.17%	41.84%	-19.67%
Pleasant Valley	338	367	29	127	37.57%	41.84%	-4.27%
S.B. Butler*	368	428	60	123	33.42%	42.37%	-8.94%
Total:	2,627	3,058	431	1,113	42.37%		

* Assumes Current Distribution of PreK Students Remains in place. (CK -10, MM - 42, SB - 66, CB - 71)

¹ Includes 35 Magnet Students that currently attend CK.

Elementary Redistricting Projections

Scenario I - Actual and Projected Enrollments (PreK-5)
2009-10 to 2019-20



	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
CK	367	375	373	410	435	420	424	420	407	394	386
CB	348	346	363	371	385	381	392	395	393	404	402
CC	381	384	401	366	360	351	356	344	340	348	348
MM	380	403	416	414	412	442	444	449	458	463	469
NEA	417	399	390	397	419	416	400	400	390	377	356
PV	324	311	340	338	323	319	311	303	294	283	276
SBB	471	403	384	362	331	297	273	275	259	257	266

Totals include an assumed steady PreK enrollment at CK, CB, MM and SBB.

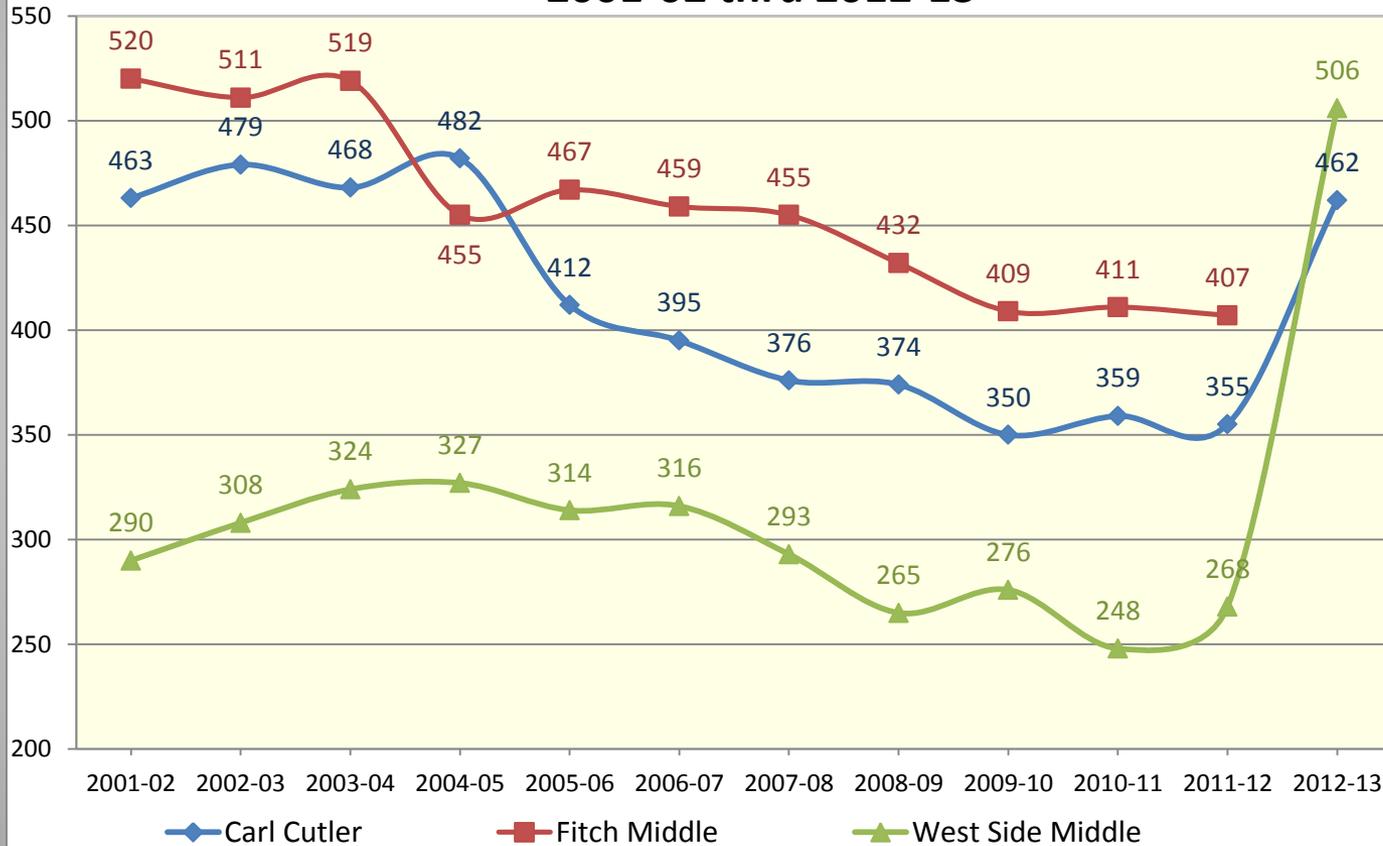
Elementary Redistricting Capacity

Scenario I - Projected Enrollment Relative to Targeted Capacity

Elementary	2013-14	2014-15	2015-16	2016-17	2017-18
Catherin Kolnaski	93%	90%	90%	89%	87%
Charles Barnum	90%	89%	91%	92%	92%
Claude Chester	77%	75%	76%	73%	72%
Mary Morrisson	84%	90%	91%	92%	94%
Northeast Academy	103%	102%	98%	98%	96%
Pleasant Valley	88%	87%	85%	83%	80%
S.B. Butler	77%	69%	64%	64%	61%

Middle School Enrollments

**Groton Middle Schools (6th - 8th) Historic Enrollments
by School,
2001-02 thru 2012-13**

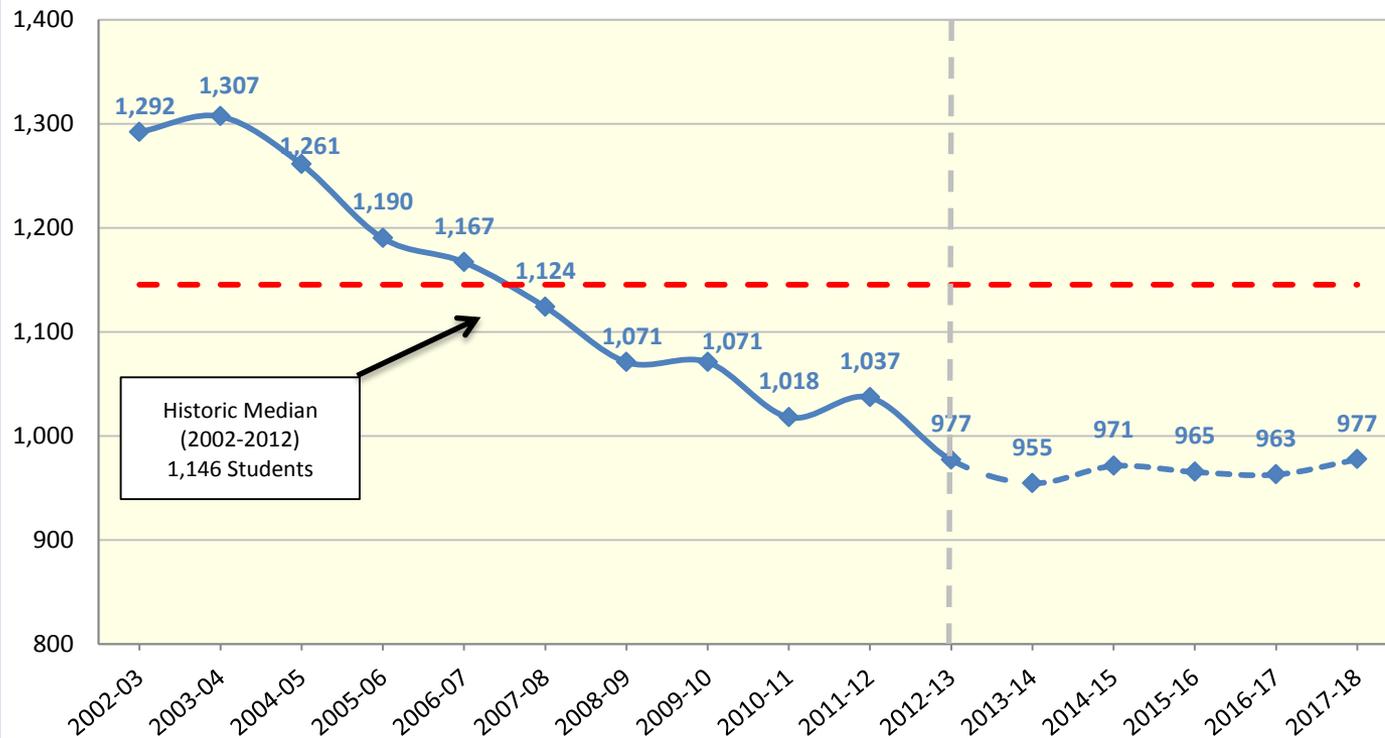


Source: CT Department of Education CeDar for 2001-2010; 2011-12 and 2012-13 data from Groton Public Schools



Middle School Projections

**Groton Actual and Projected Middle School Enrollments
6th-8th Grade
2002-03 to 2017-18**

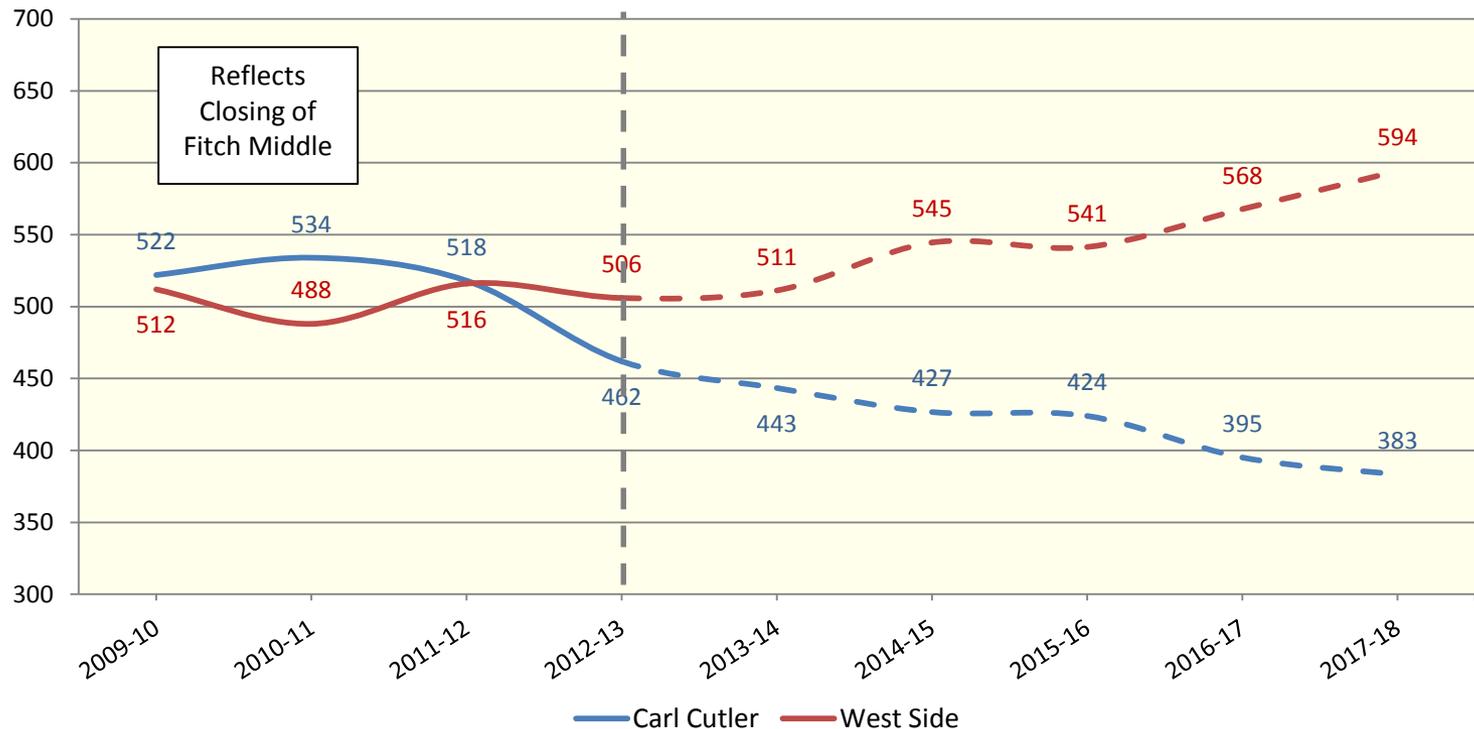


Prepared for the Board of Education by Milone & MacBroom, Inc. 2012.



Middle School Projections

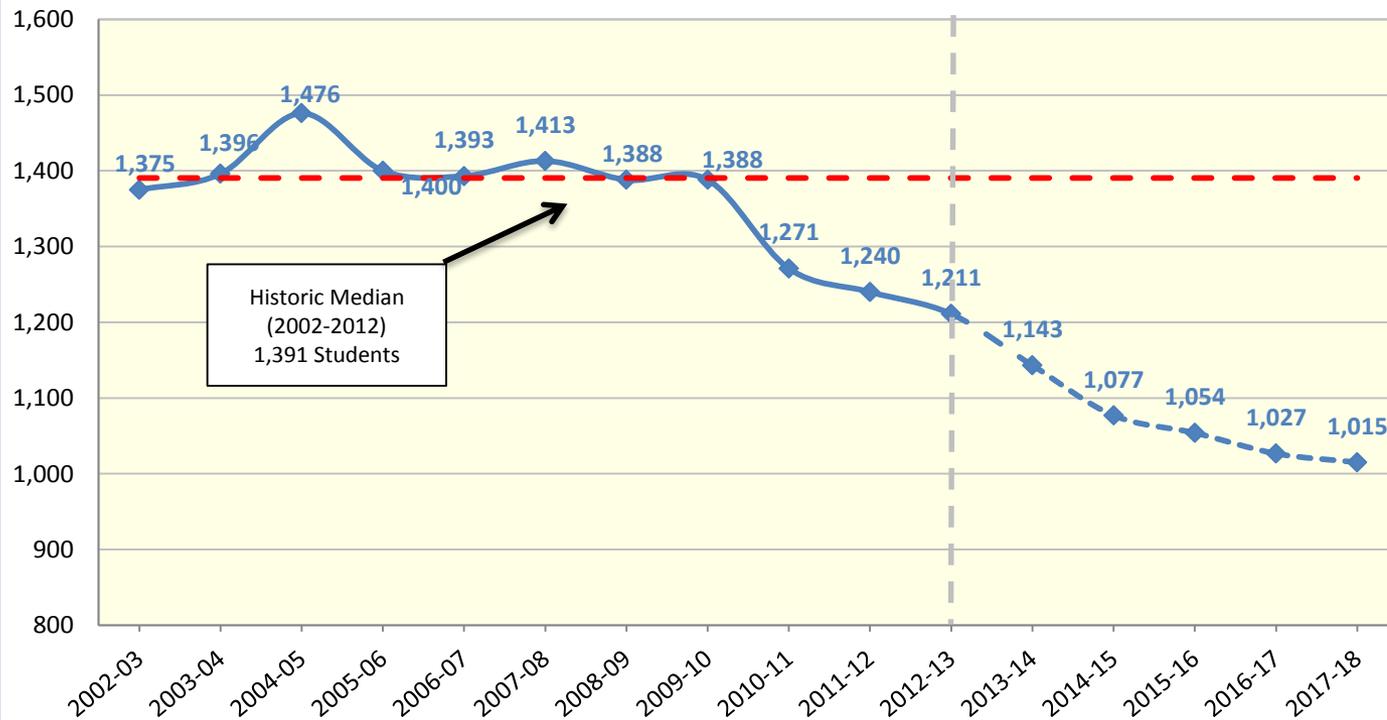
Groton Middle School Actual and Projected Enrollments 2009-10 to 2017-18



Source: Enrollment data provided by Groton Public Schools and georeferenced to Adopted Middle School District Boundaries.

High School Projections

**Groton Actual and Projected High School Enrollments
9th-12th Grade
2002-03 to 2017-18**



Prepared for the Board of Education by Milone & MacBroom, Inc. 2012.



Enrollment Trends Summary

- Total Enrollments Significantly Declined from 2001-02 to 2006-07, Further Declines Experienced from 2009-10 to 2011-12
- Elementary Enrollments Stable at 2,600 to 2,700, and Projected to Remain Stable through 2014-15
- Middle School Enrollments Have Declined Slowly Since 2006-07 and Are Projected to Stabilize Over the Next Two Years, Before Starting to Rebound
- Cutler and West Side Will Quickly Become Out of Balance as Enrollments at West Side are Projected to Increase Significantly, While Cutler's Enrollment Decreases



Questions?



Next Steps

- Existing Conditions of Facilities – March 14, 2013
- Criteria Development and Discussion of Alternatives – April
- Alternative Scenario Development and Benchmarking Survey – May-August