



Comprehensive School Enrollment Study

Enrollment Analysis Highlights

January 2016





Introduction

Demographics

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



Housing

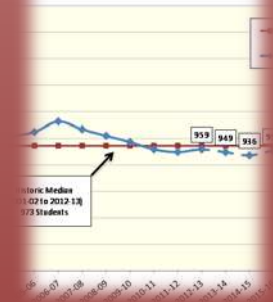
- ✓ Change in Number of Units
- ✓ Development Potential
- ✓ Projected Growth



Enrollment Patterns and Projections

- ✓ Enrollment Trends
- ✓ By Grade

Enrollment Projections
Bethel Public Schools, 9th - 12th Grades
2001-02 to 2012-13



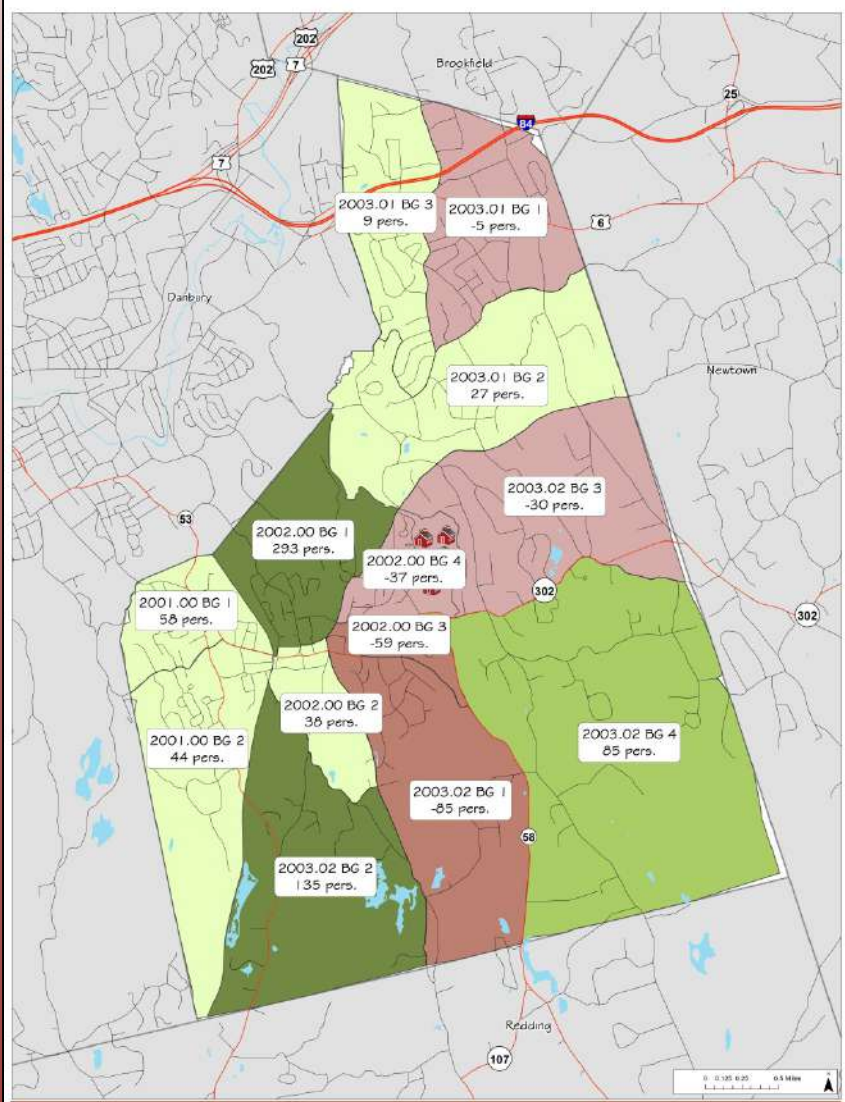


Total Population Change

Census Block Groups	Total Population			Change (2000-2010)
	2000	2010	2014*	
Tract 2001.00 BG 1	1,693	1,751	1,989	3.4%
Tract 2001.00 BG 2	1,811	1,855	1,632	2.4%
Tract 2002.00 BG 1	2,120	2,413	2,479	13.8%
Tract 2002.00 BG 2	819	857	896	4.6%
Tract 2002.00 BG 3	907	848	672	-6.5%
Tract 2002.00 BG 4	827	790	804	-4.5%
Tract 2003.01 BG 1	1,643	1,638	1,694	-0.3%
Tract 2003.01 BG 2	1,556	1,583	1,613	1.7%
Tract 2003.01 BG 3	1,622	1,631	1,895	0.6%
Tract 2003.02 BG 1	1,341	1,256	1,481	-6.3%
Tract 2003.02 BG 2	614	749	537	22.0%
Tract 2003.02 BG 3	1,524	1,494	1,527	-2.0%
Tract 2003.02 BG 4	1,634	1,719	1,859	5.2%
TOTAL	18,111	18,584	19,078	2.6%

Note: *2014 are estimates
 Source: U.S. Census Bureau, 2000 and 2010 census
 2010-2014 American Community Survey 5-Year Estimates.

- Continued estimated growth into this decade



Bethel Public Schools
 Comprehensive Enrollment Analysis

Total Population Change 2000 to 2010 by Census Block Group

Percentage Change

- < -5.0%
- 4.9% - 0.0%
- 0.1% - 5.0%
- 5.1% - 10.0%
- > 10.1%

© 2010 Bethel Public Schools
 * Census, Bureau of Census, 2010
 ** Census, Bureau of Census, 2000
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This map is intended for planning purposes only. Consultation with the school is required.

December 2010

Milone & MacBroom



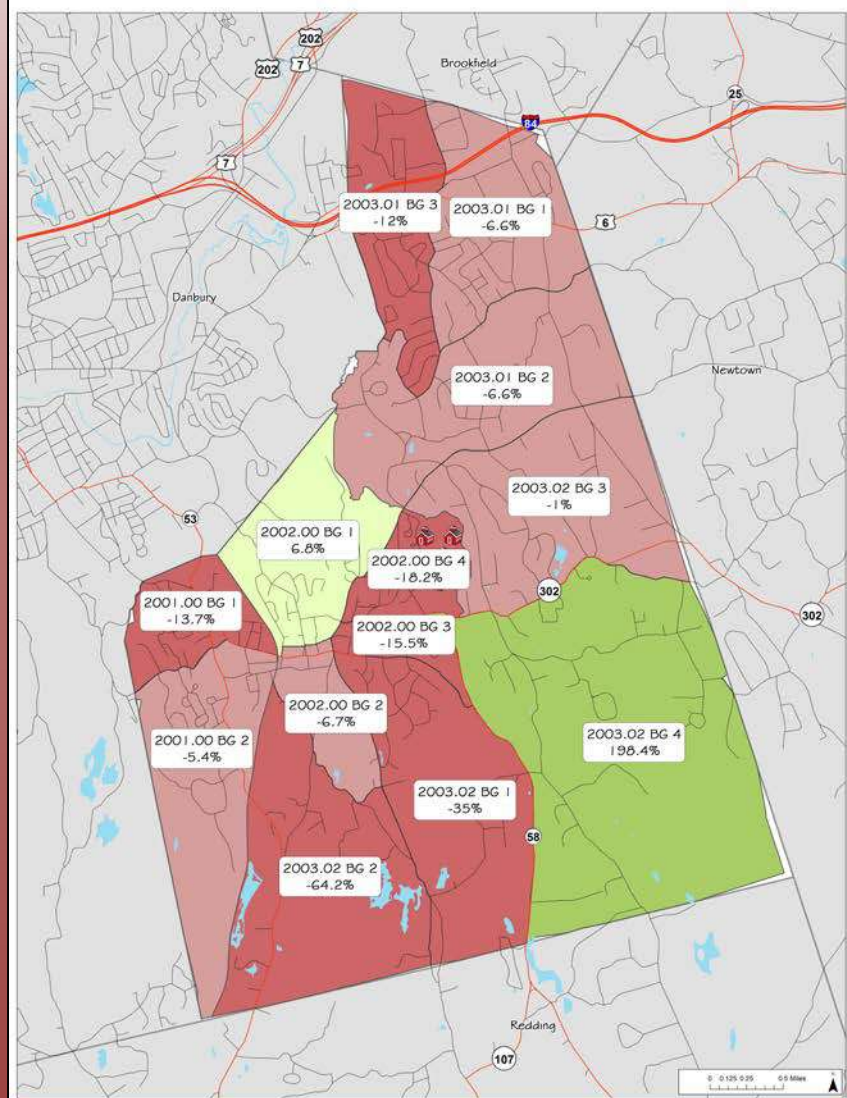
School Age (5-17) Population Change

	School-Age Population 2014 (5-17)			Change (2000-2010)
	2000	2010	2014*	
Tract 2001.00 BG 1	335	289	263	-13.7%
Tract 2001.00 BG 2	351	332	364	-5.4%
Tract 2002.00 BG 1	383	409	516	6.8%
Tract 2002.00 BG 2	120	112	84	-6.7%
Tract 2002.00 BG 3	174	147	153	-15.5%
Tract 2002.00 BG 4	137	112	116	-18.2%
Tract 2003.01 BG 1	365	341	295	-6.6%
Tract 2003.01 BG 2	346	323	224	-6.6%
Tract 2003.01 BG 3	308	271	353	-12.0%
Tract 2003.02 BG 1	346	225	370	-35.0%
Tract 2003.02 BG 2	386	138	81	-64.2%
Tract 2003.02 BG 3	296	293	310	-1.0%
Tract 2003.02 BG 4	124	370	300	198.4%
TOTAL	3,671	3,362	3,429	-8.4%

Note: *2014 are estimates

Source: U.S. Census Bureau, 2000 and 2010 census
2010-2014 American Community Survey 5-Year Estimates.

- Stabilization and recovery of school-age population estimated



Bethel Public Schools
Comprehensive Enrollment Analysis

Change in School Age Population (Ages 5 - 17) 2000 to 2010 by Census Block Group

Percentage Change

- < -10.0%
- 10.0% - 0.0%
- 0.1% - 10.0%
- > 10.0%

This map is intended for planning purposes only. Demographic figures are based on the 2010 Census. Total of Bethel, 2011. Bethel Year Book, 2010-2011. Source: Connecticut 2010 Census. December 2015



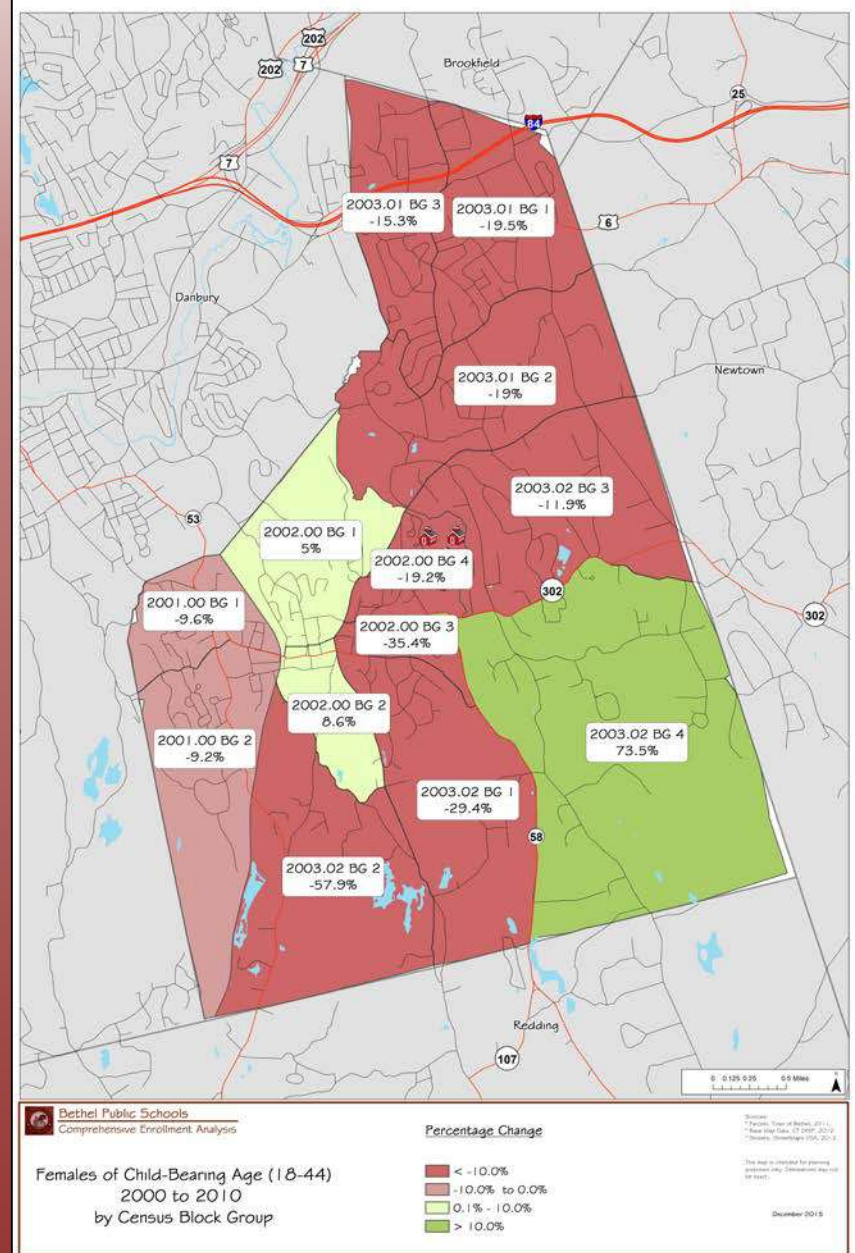
Females of Child-Bearing Age (18-44)

	Females of Child-Bearing Age (Ages 18-44)			Change (2000-2010)
	2000	2010	2014*	
Tract 2001.00 BG 1	353	319	387	-9.6%
Tract 2001.00 BG 2	401	364	324	-9.2%
Tract 2002.00 BG 1	436	458	478	5.0%
Tract 2002.00 BG 2	185	201	127	8.6%
Tract 2002.00 BG 3	212	137	93	-35.4%
Tract 2002.00 BG 4	156	126	86	-19.2%
Tract 2003.01 BG 1	302	243	219	-19.5%
Tract 2003.01 BG 2	268	217	208	-19.0%
Tract 2003.01 BG 3	274	232	324	-15.3%
Tract 2003.02 BG 1	262	185	131	-29.4%
Tract 2003.02 BG 2	280	118	110	-57.9%
Tract 2003.02 BG 3	227	200	278	-11.9%
Tract 2003.02 BG 4	117	203	271	73.5%
TOTAL	3,473	3,003	3,036	-13.5%

Note: *2014 are estimates

Source: U.S. Census Bureau, 2000 and 2010 census
2010-2014 American Community Survey 5-Year Estimates.

- Stabilization of females of child-bearing age population estimated





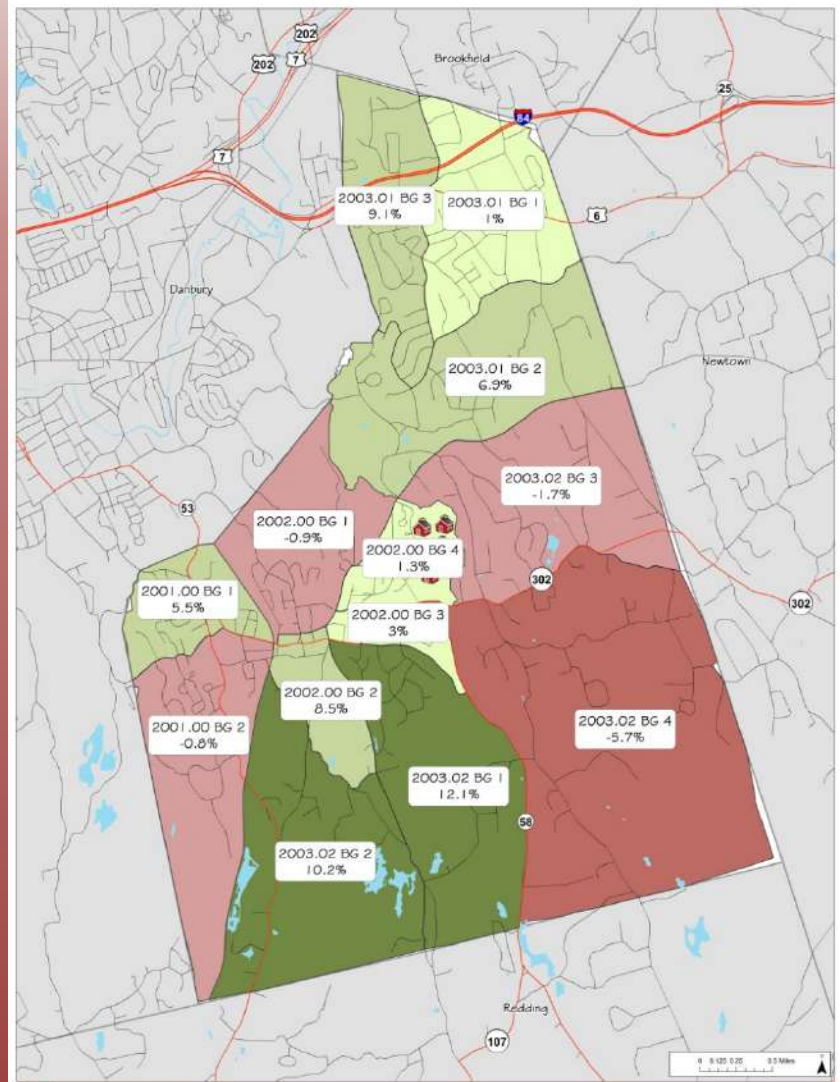
Change in Average Household Size

	Average Household Size			Change (2000-2010)
	2000	2010	2014*	
Tract 2001.00 BG 1	2.71	2.56	2.36	-5.5%
Tract 2001.00 BG 2	2.62	2.64	2.64	0.8%
Tract 2002.00 BG 1	2.32	2.34	2.39	0.9%
Tract 2002.00 BG 2	2.12	1.94	1.83	-8.5%
Tract 2002.00 BG 3	2.70	2.62	2.32	-3.0%
Tract 2002.00 BG 4	2.30	2.27	2.21	-1.3%
Tract 2003.01 BG 1	3.07	3.04	3.42	-1.0%
Tract 2003.01 BG 2	3.20	2.98	2.73	-6.9%
Tract 2003.01 BG 3	3.07	2.79	3.30	-9.1%
Tract 2003.02 BG 1	3.06	2.69	3.28	-12.1%
Tract 2003.02 BG 2	3.14	2.82	2.80	-10.2%
Tract 2003.02 BG 3	2.91	2.96	2.85	1.7%
Tract 2003.02 BG 4	2.79	2.95	2.84	5.7%
Town-Wide Avg.	2.76	2.65	2.69	-4.0%

Note: *2014 are estimates

Source: U.S. Census Bureau, 2000 and 2010 census
2010-2014 American Community Survey 5-Year Estimates.

- Stabilization of household sizes



Bethel Public Schools
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Change in Average Household Size
2000 to 2010
by Census Block Group

Percentage Change

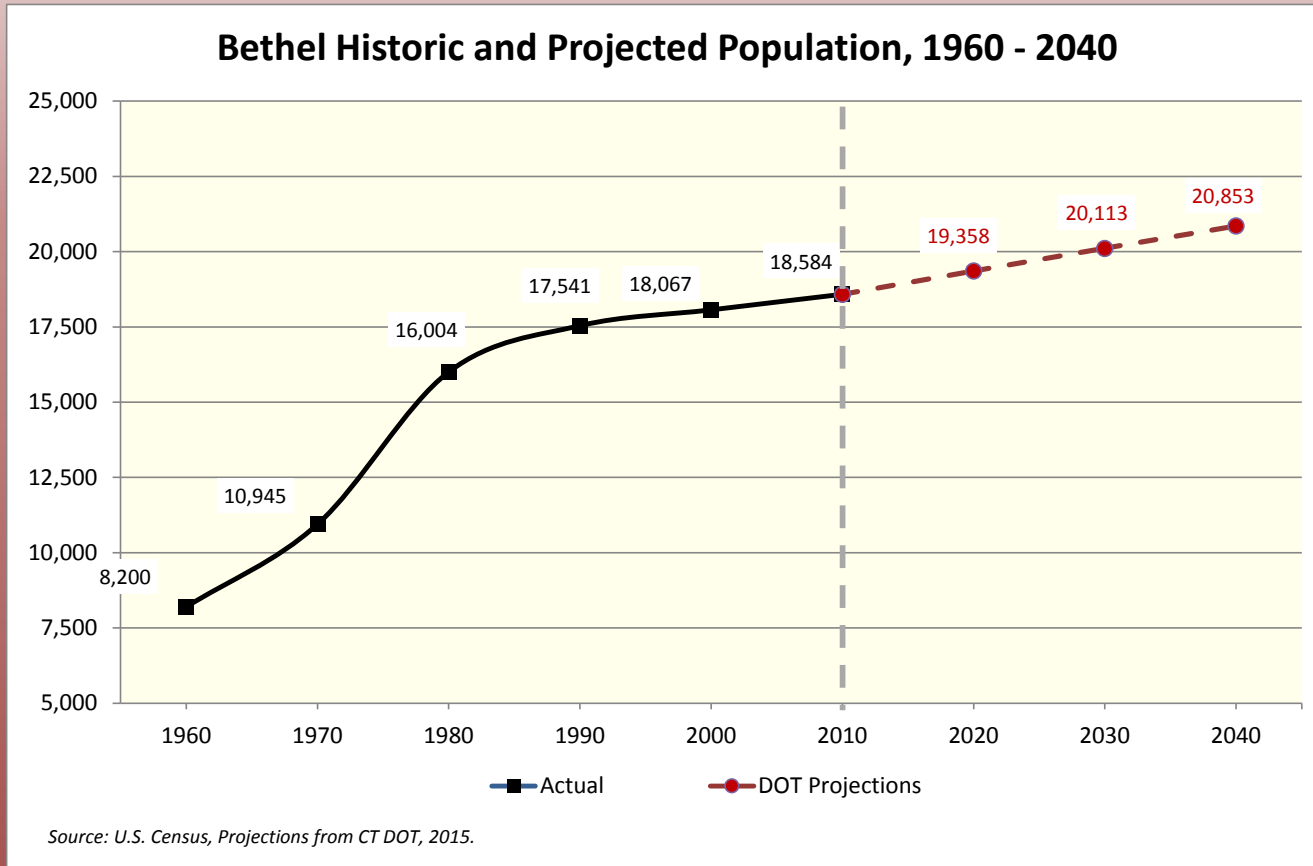
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December 2012

Milone & MacBroom



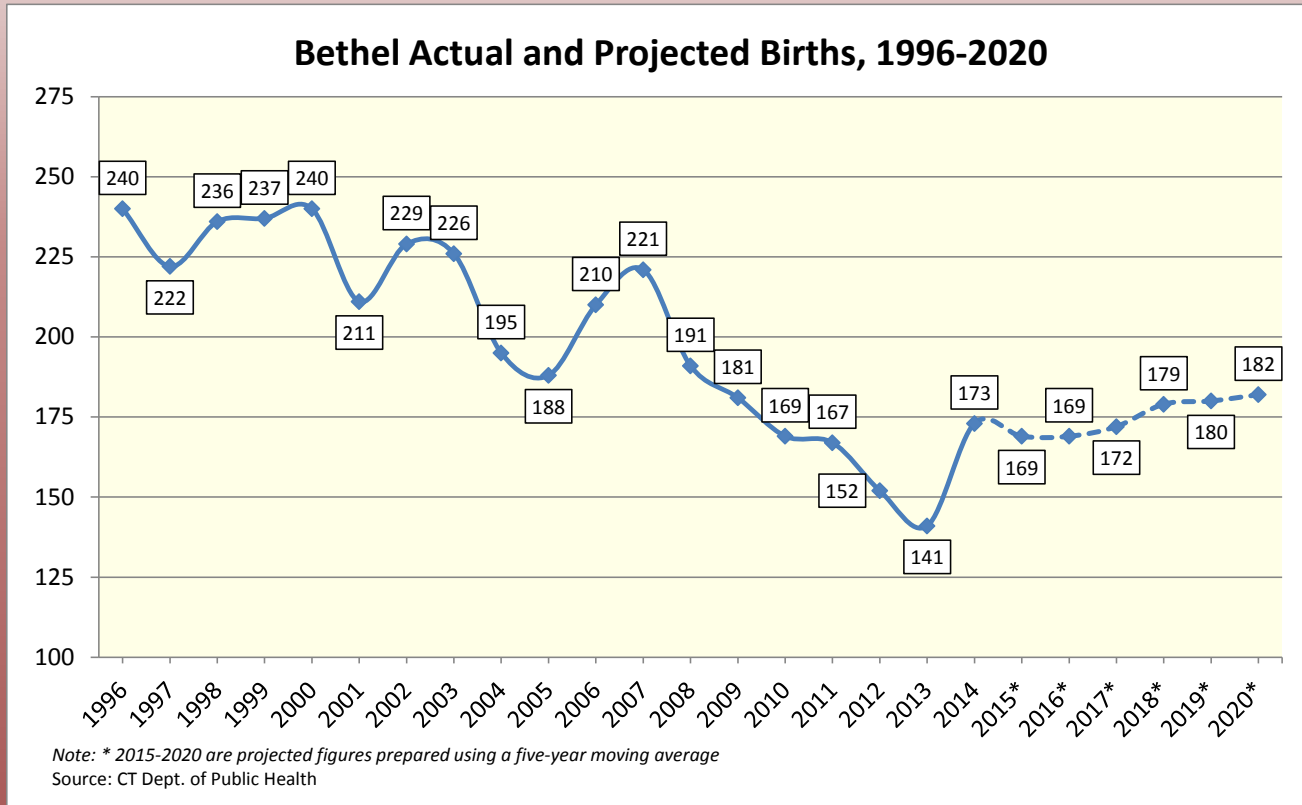
Population Projections



- Overall population projected to continue to grow at moderate pace



Births



- Significant decline in births from 2007 through 2013
- Smallest birth cohorts have not yet entered school system (2012 and 2013 birth years correspond to incoming K of 2017 and 2018)
- Birth rate appears to have started to recover



Population Change

- Population growth has continued into first half of decade
- Signs for continued, and perhaps accelerated growth
 - Increasing birth rates in 2014
 - Stabilizing population of females of child-bearing age
 - Stabilizing and increasing younger age groups



Total Housing Unit Change

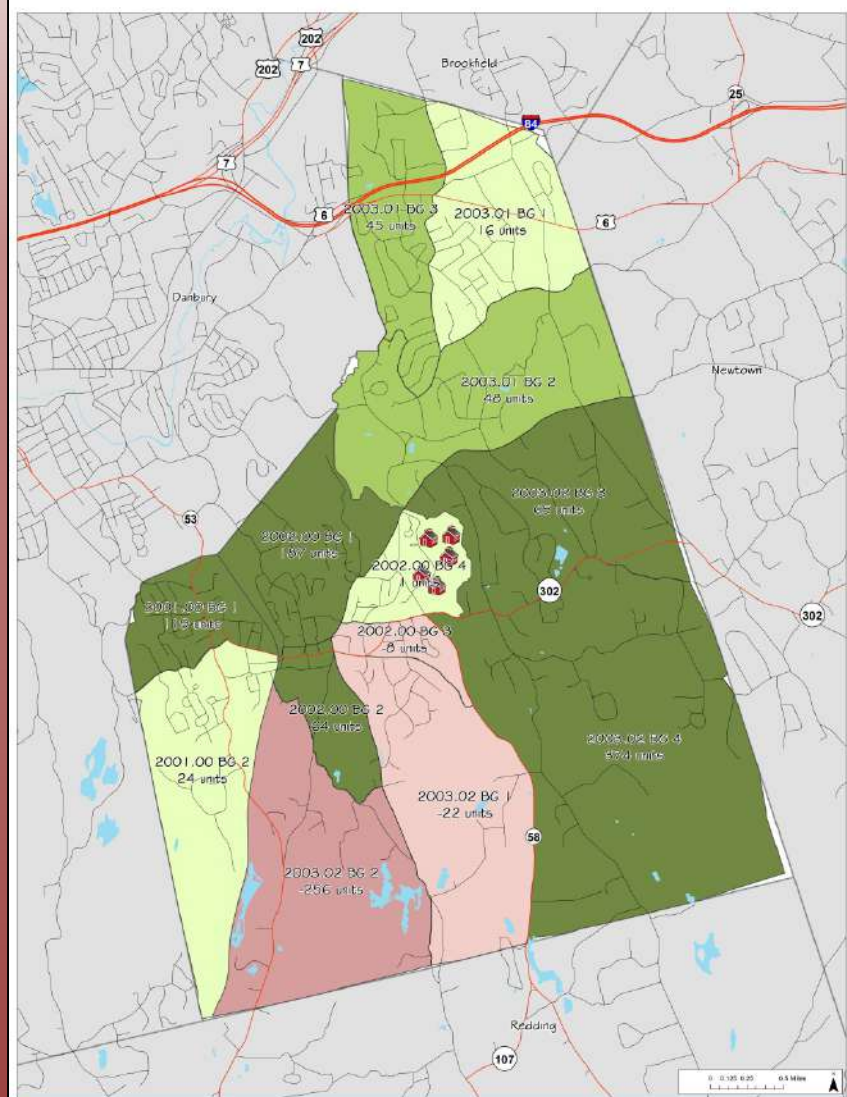
	Total Housing Units			Change (2000-2010)
	2000	2010	2014*	
Tract 2001.00 BG 1	643	762	841	18.5%
Tract 2001.00 BG 2	714	738	639	3.4%
Tract 2002.00 BG 1	925	1,112	1,102	20.2%
Tract 2002.00 BG 2	399	463	578	16.0%
Tract 2002.00 BG 3	346	338	290	-2.3%
Tract 2002.00 BG 4	363	364	360	0.3%
Tract 2003.01 BG 1	542	558	494	3.0%
Tract 2003.01 BG 2	492	540	589	9.8%
Tract 2003.01 BG 3	504	549	555	8.9%
Tract 2003.02 BG 1	503	481	517	-4.4%
Tract 2003.02 BG 2	529	273	219	-48.4%
Tract 2003.02 BG 3	466	531	546	13.9%
Tract 2003.02 BG 4	227	601	658	164.8%
TOTAL	6,653	7,310	7,388	9.9%

Note: *2014 are estimates

Source: U.S. Census Bureau, 2000 and 2010 census

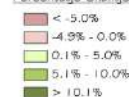
2010-2014 American Community Survey 5-Year Estimates.

- Continued estimated growth into this decade



Bethel Public Schools
Comprehensive Enrollment Analysis

Percentage Change



Change in Housing Units
2000 to 2010
by Census Block Group

Source:
* Tracts: Base of 2000
* Color: MapInfo 2000-2010
* Census: Percentage 100, 2010

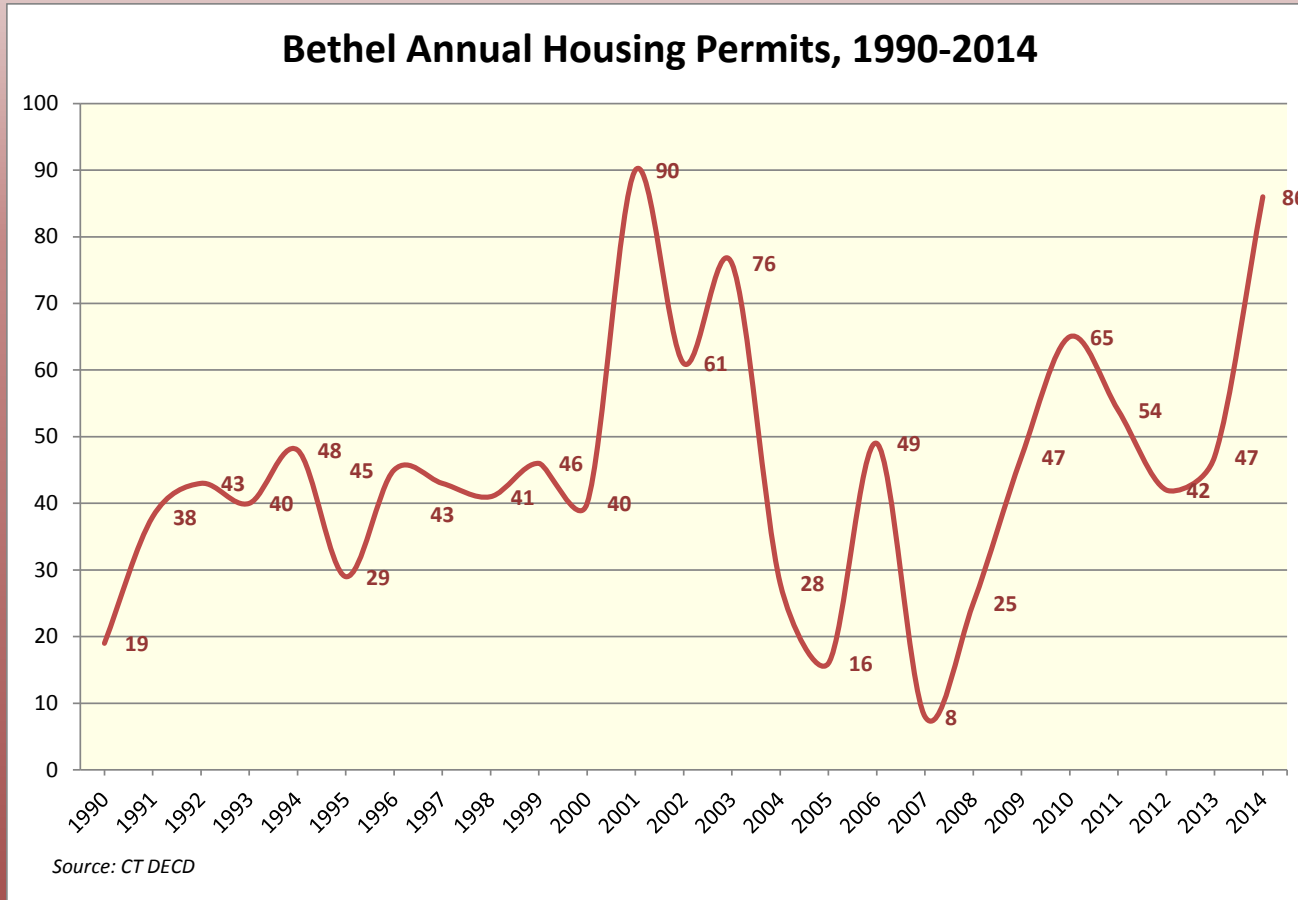
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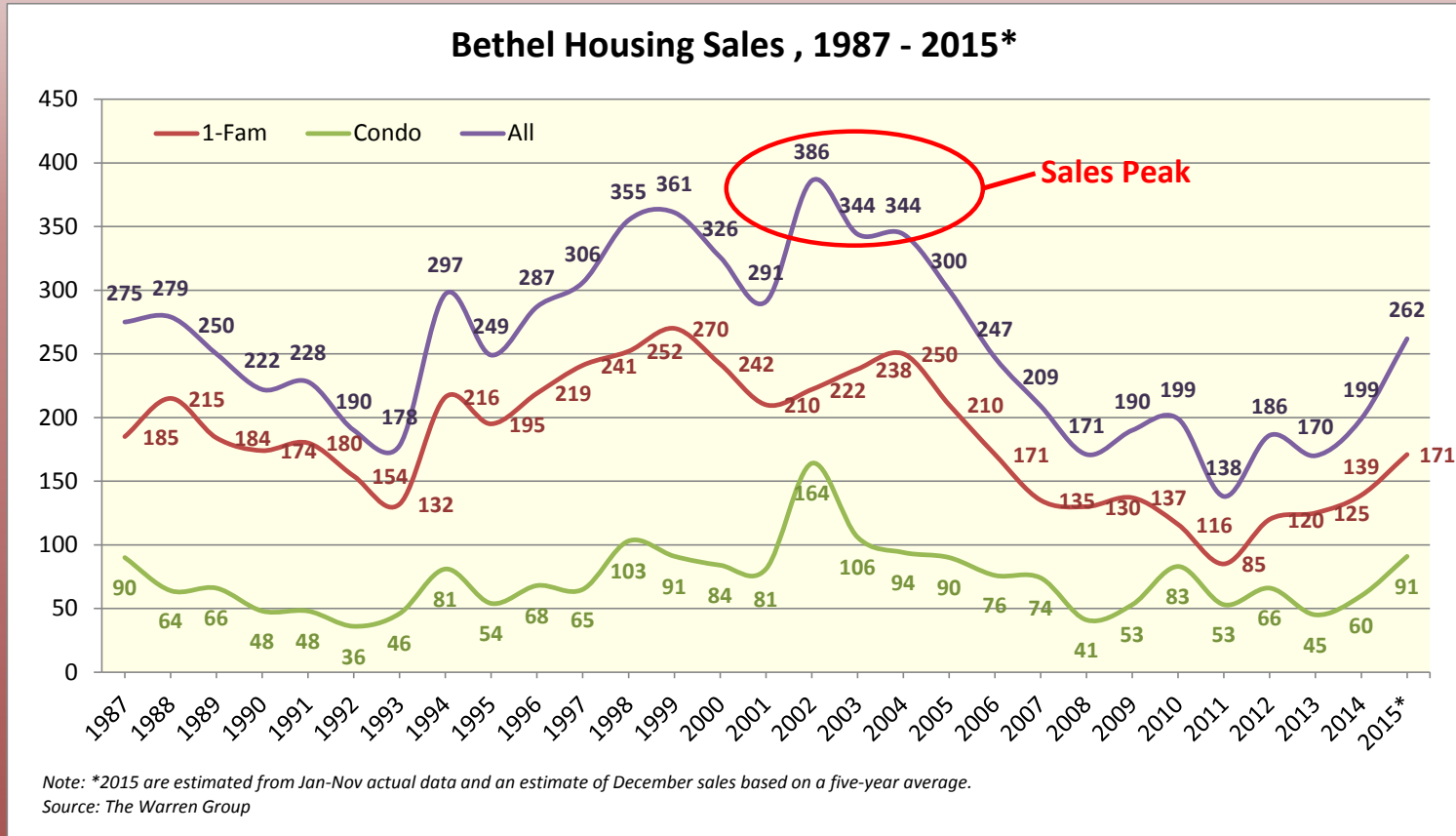
Housing Permits



- Permits averaging about 60 new units annually since 2010
- From Jan. to Sept. 2015 – 59 permits reported



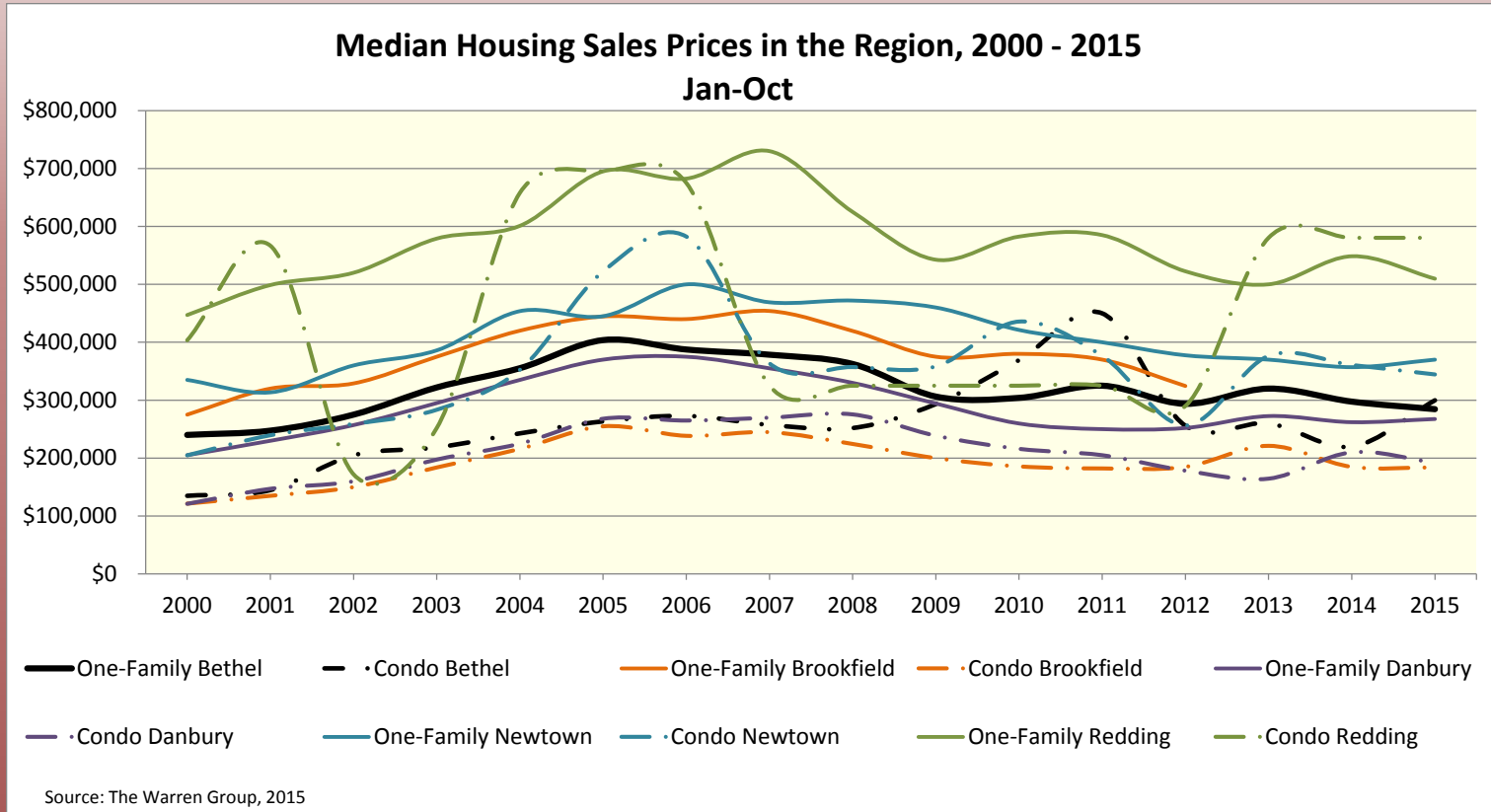
Housing Sales



- Housing sales rebounding since 2011 low
- Both single-family and condo sales increasing over last three years



Housing Sales Prices

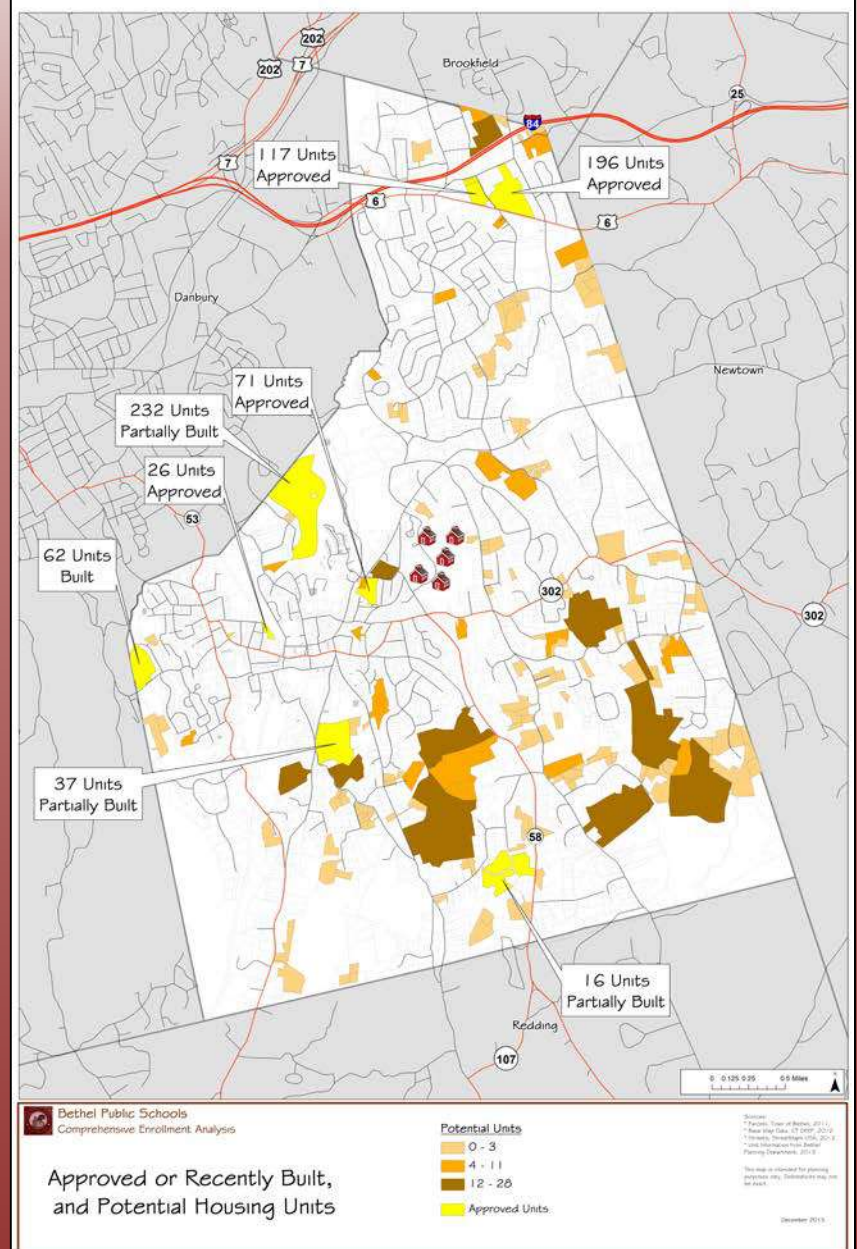


- Bethel median housing sales prices remain relatively affordable in immediate region
- Attractive to younger families



Residential Buildout

- 221 new housing units approved since 2013
- About 70% of those multi-family rental units of two bedrooms or fewer
- Ongoing Transit Oriented Development (TOD) planning around train station gearing towards singles, couples and empty-nester markets primarily
- Vacant land still available





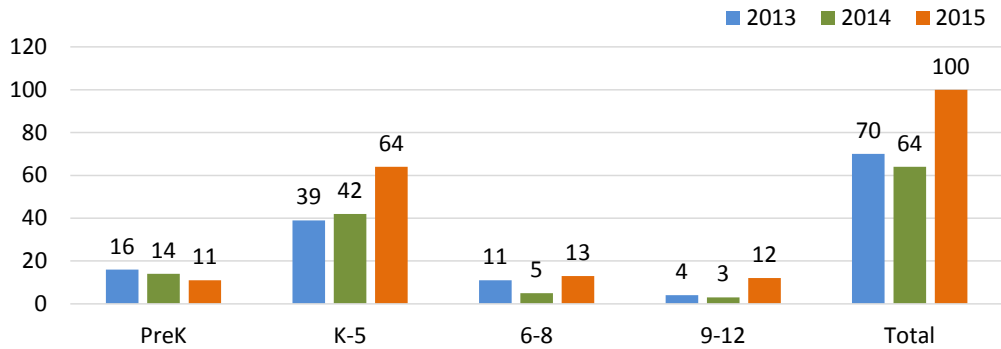
Housing Change

- Housing growth has continued across all housing types
- Majority of most recent housing approvals are for rental units not geared towards families
 - New multi-family units, however, may stimulate greater turnover in single-family homes
- Housing sales rebounding since 2011
- Housing growth projected to continue



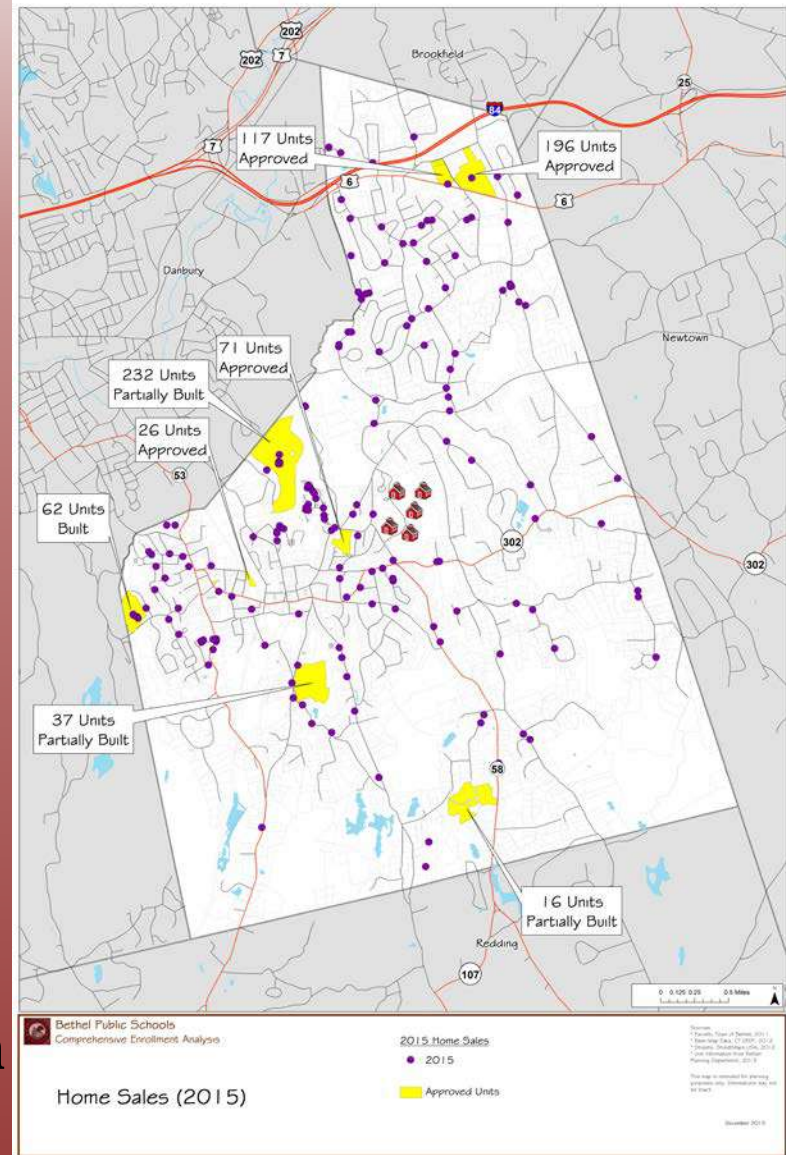
Students Generated from Home Sales

Students Generated from Home Sales 2013-2015 Jan.-Sept.



Source: prepared by MMI. 12/2015.

- Estimated by comparing address of students new to system (based on student ID from year to year) to address of Jan.-Sept. housing sales
- Increasing number of elementary students moving into system, with marked increase in 2015





Students by Housing Type

Bethel Students by Housing Type, Oct. 2009 to Oct. 2015

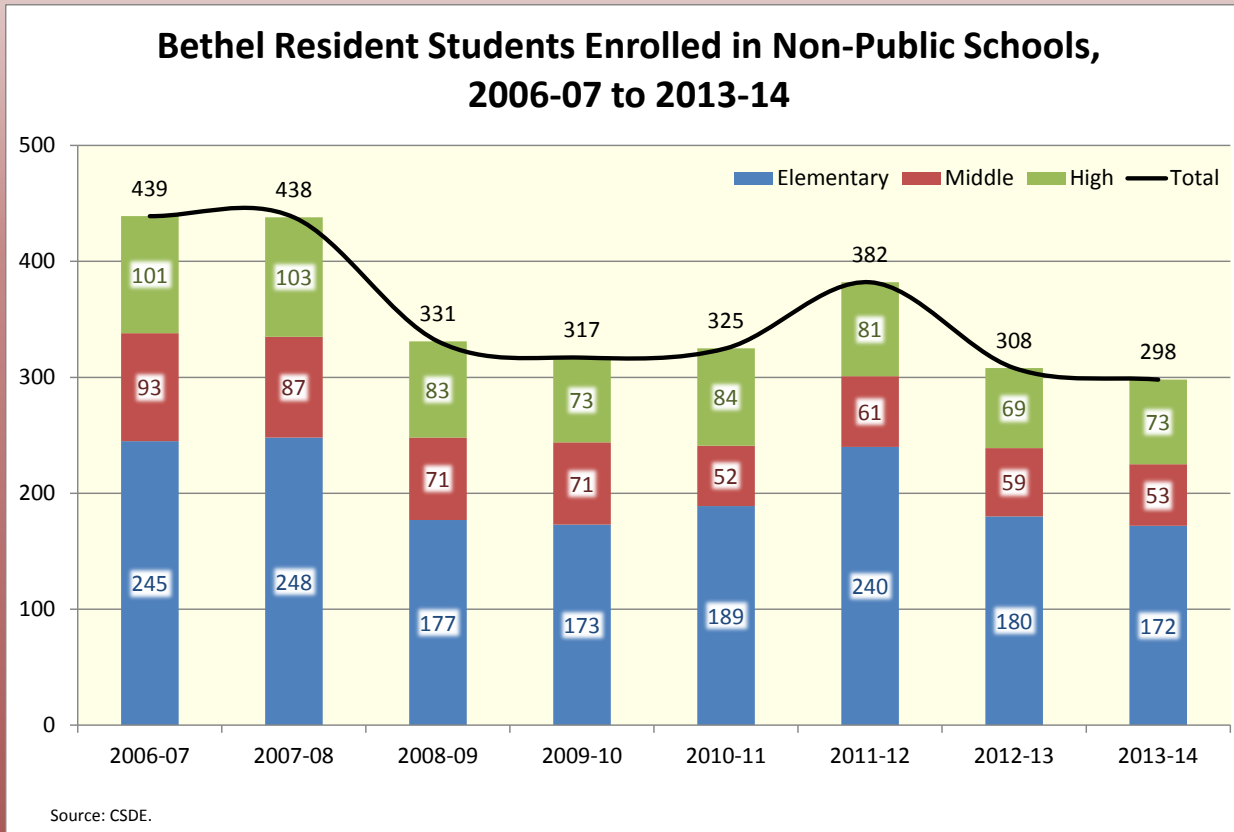
	2009	2010	2011	2012	2013	2014	2015
Multi-Family	226 7.44%	229 7.79%	252 8.48%	263 8.84%	263 8.81%	272 9.28%	302 10.21%
Single-Family or Duplex	2,812 92.56%	2,709 92.21%	2,719 91.52%	2,712 91.16%	2,723 91.19%	2,659 90.72%	2,657 89.79%
Total	3,038	2,938	2,971	2,975	2,986	2,931	2,959

Source: prepared by MMI. 12/2015.

- Increasing percentage of students reside in multi-family housing
- However, still only about 10% of overall BPS student population
- Turnover in existing single-family homes (which may be facilitated by development of new multi-family units, as empty-nester downsize) more likely correlated to generation of new students to system



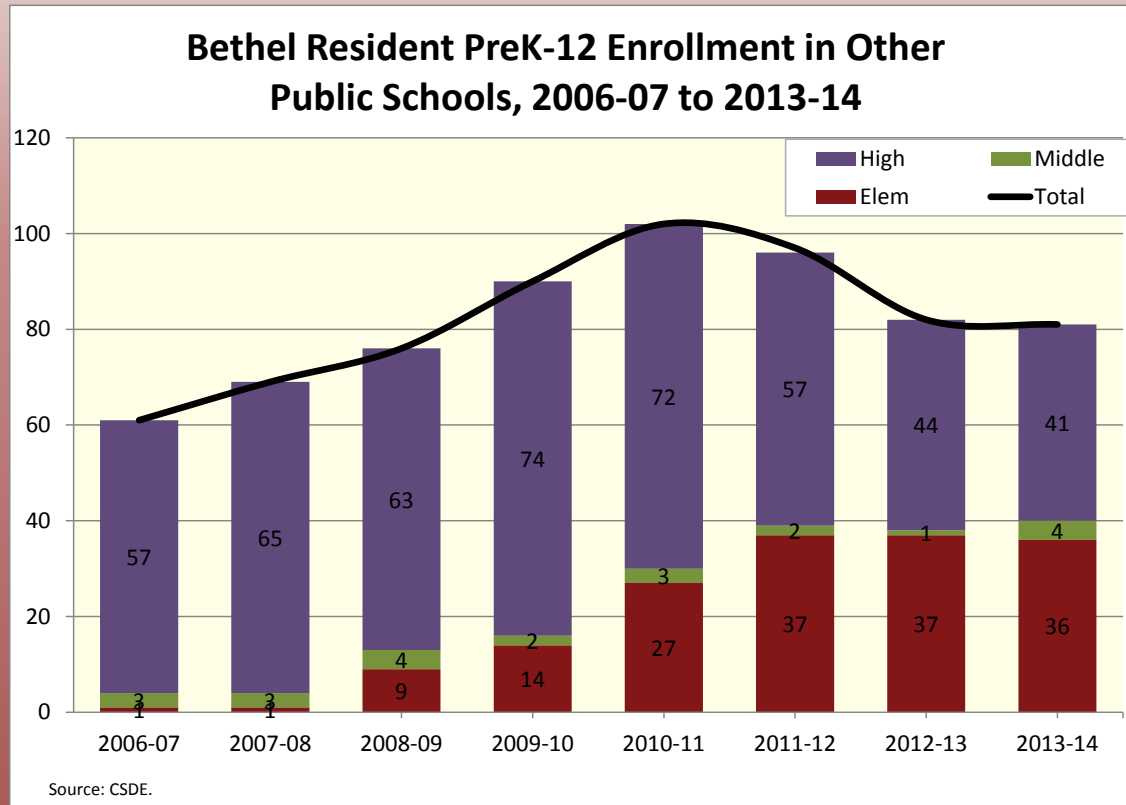
Non-Public Enrollments 2006-07 to 2013-14



- Latest data available
- Decline over the last decade



Other Public Enrollments

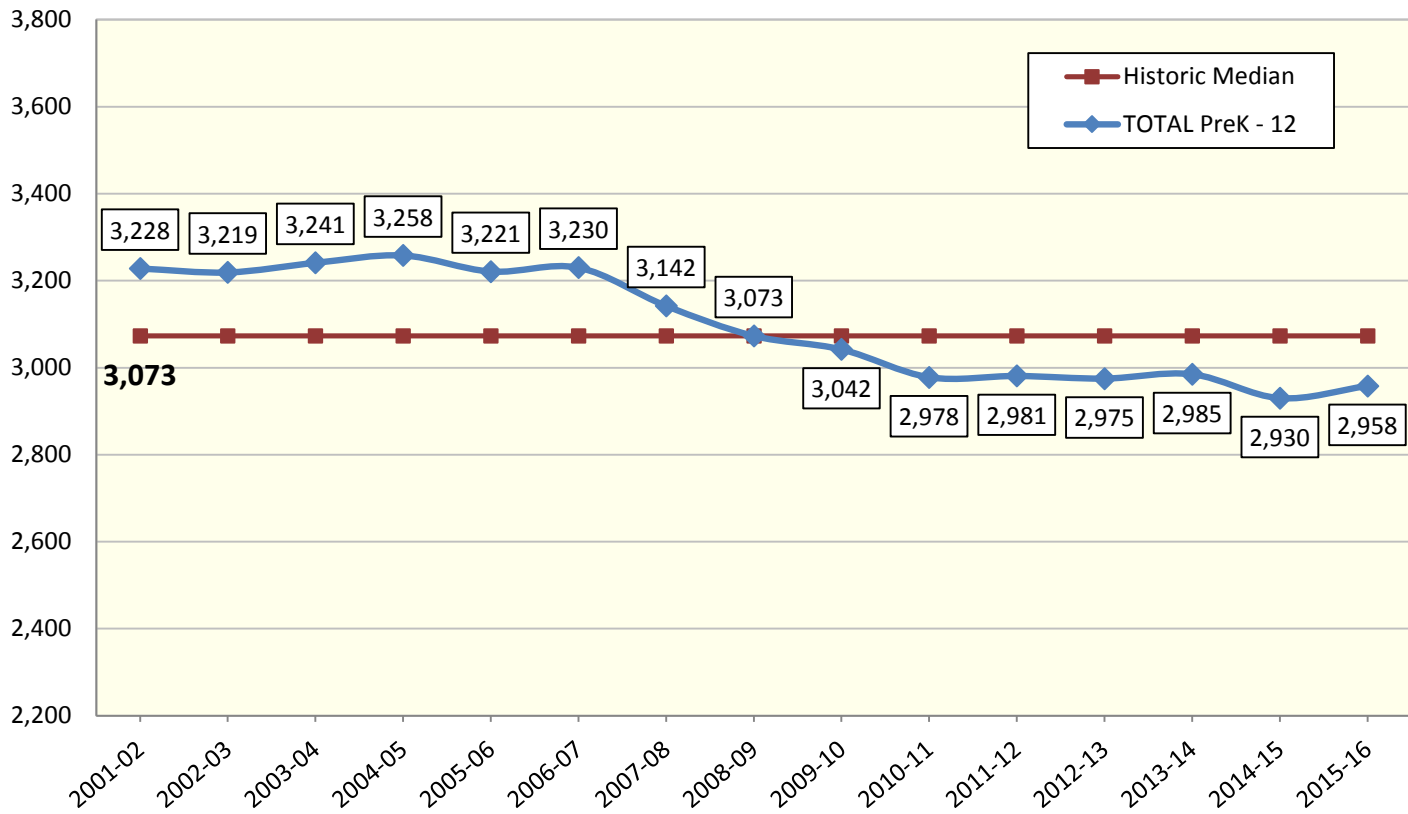


- Latest data available
- Danbury magnet enrollments stabilizing
- Decline in high school students attending other public schools



Historic PreK-12 Enrollments

**Historic Enrollment
Bethel Public Schools, PreK - 12th Grade
2001-02 to 2015-16**



Sources: CT Dept. of Ed. CeDar and Bethel Public Schools (2011-12 & 2015-16)



PreK-12 Enrollments by Grade

School Year	Birth Year	Births	K	1	2	3	4	5	6	7	8	9	10	11	12	PreK	PreK-3 Grades	4-5 Grades	6-8 Grades	9-12 Grades	TOTAL PreK - 12
2001-02	1996	240	223	202	246	244	261	248	282	292	248	267	250	220	188	57	972	509	822	925	3,228
2002-03	1997	222	216	238	210	252	254	262	247	274	296	243	241	221	207	58	974	516	817	912	3,219
2003-04	1998	236	211	234	240	219	248	262	268	250	295	301	226	241	191	55	959	510	813	959	3,241
2004-05	1999	237	213	224	214	244	227	262	269	272	260	308	261	217	219	68	963	489	801	1,005	3,258
2005-06	2000	240	198	220	229	205	241	223	261	268	275	279	278	266	201	77	929	464	804	1,024	3,221
2006-07	2001	211	211	209	223	235	216	252	234	260	267	294	270	255	244	60	938	468	761	1,063	3,230
2007-08	2002	229	191	227	210	222	238	216	252	239	252	261	272	262	239	61	911	454	743	1,034	3,142
2008-09	2003	226	213	197	231	206	219	235	217	252	237	248	261	260	241	56	903	454	706	1,010	3,073
2009-10	2004	195	170	227	205	238	215	220	241	215	247	242	236	240	269	77	917	435	703	987	3,042
2010-11	2005	189	168	201	213	222	215	220	241	215	247	249	227	241	242	77	881	435	703	959	2,978
2011-12	2006	210	200	174	174	223	210	237	221	224	248	234	242	241	232	121	892	447	693	949	2,981
2012-13	2007	221	231	194	182	174	227	216	241	222	221	255	229	243	232	108	889	443	684	959	2,975
2013-14	2008	191	215	239	187	197	182	235	213	239	219	213	251	232	236	127	965	417	671	932	2,985
2014-15	2009	181	189	214	243	198	205	180	241	210	245	207	205	250	227	116	960	385	696	889	2,930
2015-16	2010	170	196	190	226	252	212	214	194	245	217	242	203	200	252	115	979	426	656	897	2,958

Sources: CT Dept. of Ed. CeDar for 2001-02 through 2010-11; Bethel Public Schools for 2011-12 through 2015-16.

- Unusually large current 2nd and 3rd grade cohorts affect enrollments as they matriculate through system



Persistency Ratios

**Kindergarten through 12th Grade Persistency Ratios by School Year
2002-03 to 2015-16**

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	0.9730	1.0673	1.0396	1.0244	1.0410	1.0038	0.9960	0.9716	1.0137	0.9798	0.9026	0.8840	0.9409
2003-04	0.8941	1.0833	1.0084	1.0429	0.9841	1.0315	1.0229	1.0121	1.0766	1.0169	0.9300	1.0000	0.8643
2004-05	0.8987	1.0616	0.9145	1.0167	1.0365	1.0565	1.0267	1.0149	1.0400	1.0441	0.8671	0.9602	0.9087
2005-06	0.8250	1.0329	1.0223	0.9579	0.9877	0.9824	0.9962	0.9963	1.0110	1.0731	0.9026	1.0192	0.9263
2006-07	1.0000	1.0556	1.0136	1.0262	1.0537	1.0456	1.0493	0.9962	0.9963	1.0691	0.9677	0.9173	0.9173
2007-08	0.8341	1.0758	1.0048	0.9955	1.0128	1.0000	1.0000	1.0214	0.9692	0.9775	0.9252	0.9704	0.9373
2008-09	0.9425	1.0314	1.0176	0.9810	0.9865	0.9874	1.0046	1.0000	0.9916	0.9841	1.0000	0.9559	0.9198
2009-10	0.8718	1.0657	1.0406	1.0303	1.0437	1.0046	1.0255	0.9908	0.9802	1.0211	0.9516	0.9195	1.0346
2010-11	0.8889	0.9526	1.0191	0.9955	0.9149	1.0185	0.9563	0.9188	0.9500	0.9326	0.7721	0.8926	0.9490
2011-12	0.9524	1.0357	0.8657	1.0469	0.9459	1.1023	1.0045	0.9295	1.1535	0.9474	0.9719	1.0617	0.9627
2012-13	1.0452	0.9700	1.0460	1.0000	1.0179	1.0286	1.0169	1.0045	0.9866	1.0282	0.9786	1.0041	0.9627
2013-14	1.1257	1.0346	0.9639	1.0824	1.0460	1.0352	0.9861	0.9917	0.9865	0.9638	0.9843	1.0131	0.9712
2014-15	1.0442	0.9953	1.0167	1.0588	1.0406	0.9890	1.0255	0.9859	1.0251	0.9452	0.9624	0.9960	0.9784
2015-16	1.1529	1.0053	1.0561	1.0370	1.0707	1.0439	1.0778	1.0166	1.0333	0.9878	0.9807	0.9756	1.0080
Long Term Average	0.9606	1.0334	1.0021	1.0211	1.0130	1.0235	1.0135	0.9893	1.0153	0.9979	0.9355	0.9693	0.9487
Last 5-Yr Average	1.0641	1.0082	0.9897	1.0450	1.0242	1.0398	1.0222	0.9856	1.0370	0.9745	0.9756	1.0101	0.9766
Last 3-Yr Average	1.1076	1.0117	1.0122	1.0594	1.0524	1.0227	1.0298	0.9981	1.0150	0.9656	0.9758	0.9949	0.9859
3-Year Weighted	1.1121	1.0069	1.0276	1.0518	1.0566	1.0242	1.0451	1.0022	1.0228	0.9696	0.9752	0.9887	0.9920

Source: Calculated by MMI from State Department of Education, Public School Information System (2001-02 to 2010-11), Bethel Public Schools 11-12 to 15-16, and CT Department of Public Health (CT DPH) Birth Data.

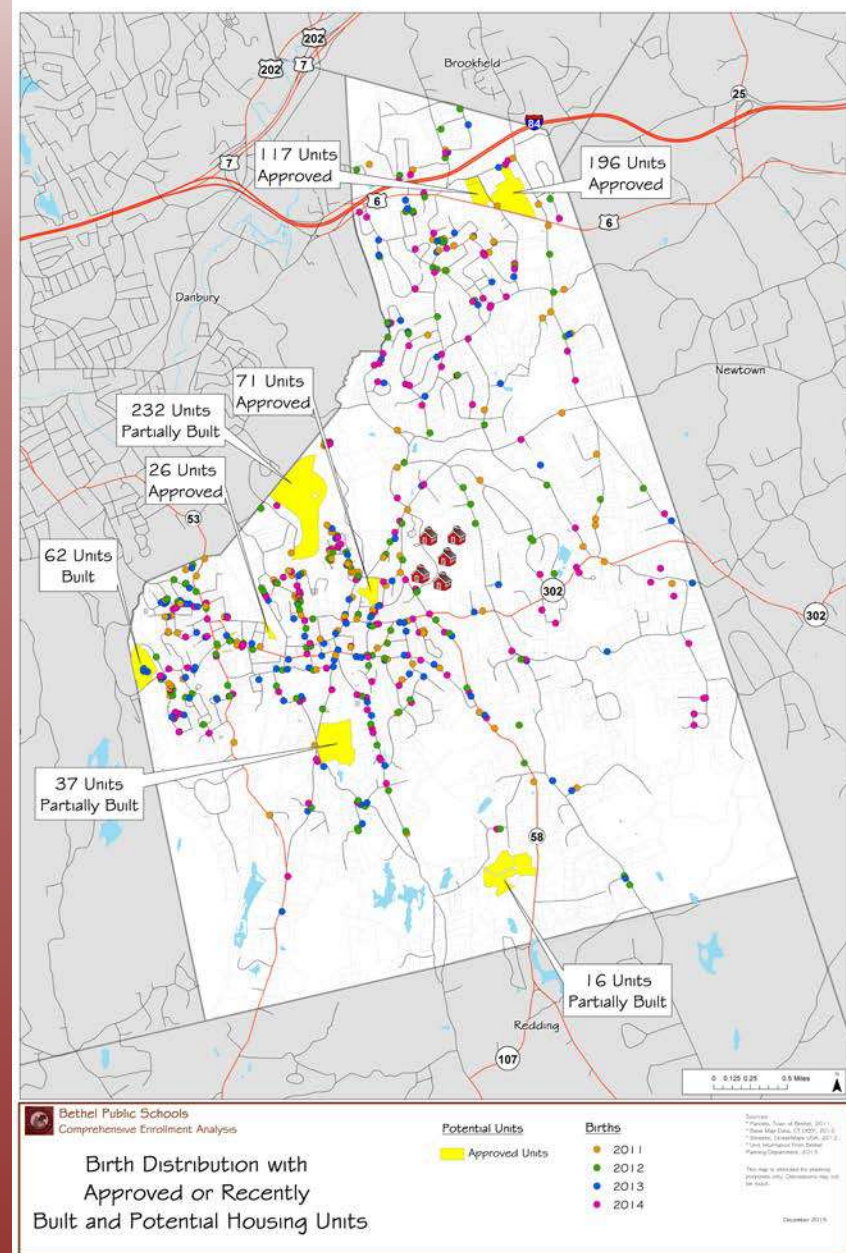
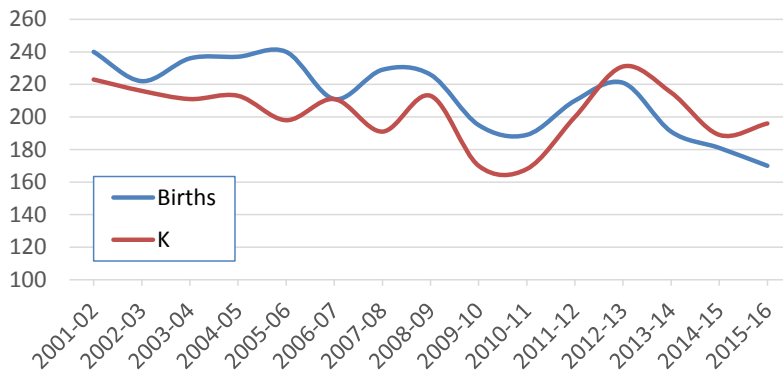
- Persistency Above 1 = in-migration; student moved in or transferred in from non-public, or was retained
- Persistency Below 1 = out-migration; student moved out or transferred out to non-public



Birth Distribution 2011-2014

- Births historically have been a generally good indicator incoming Kindergarten classes
- With increasing in-migration related to housing sales, birth-K persistency ratio increasing
- Need to monitor birth-K ratio over next few years

Kindergarten and Births Five Years Previous, Bethel Public Schools



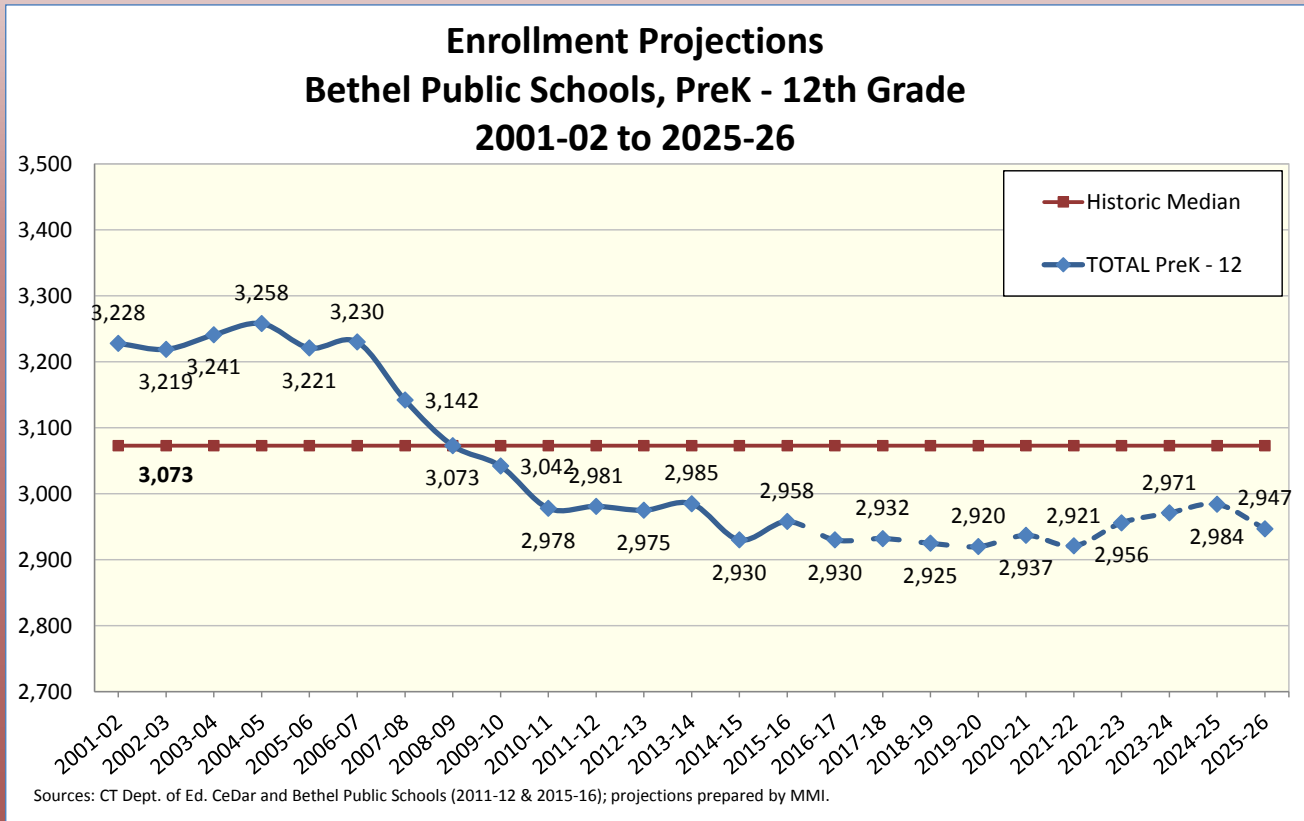


Projections Assumptions

- **Steady PreK enrollment at 117**
- **No changes to current programming**
- **Current housing and demographic trends continue**



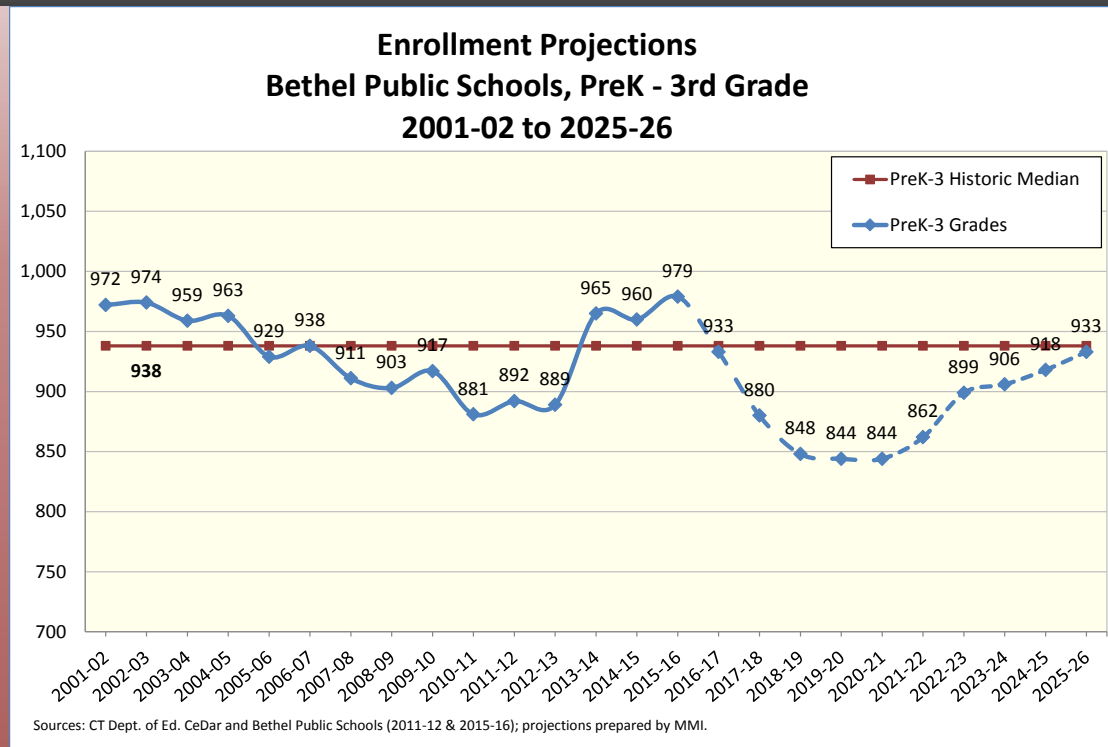
PreK-12th Enrollment Projections



- Projecting relatively stable total enrollment over next five years
- Slightly increasing enrollments in latter half of projection horizon due in part to recovery in birth rates



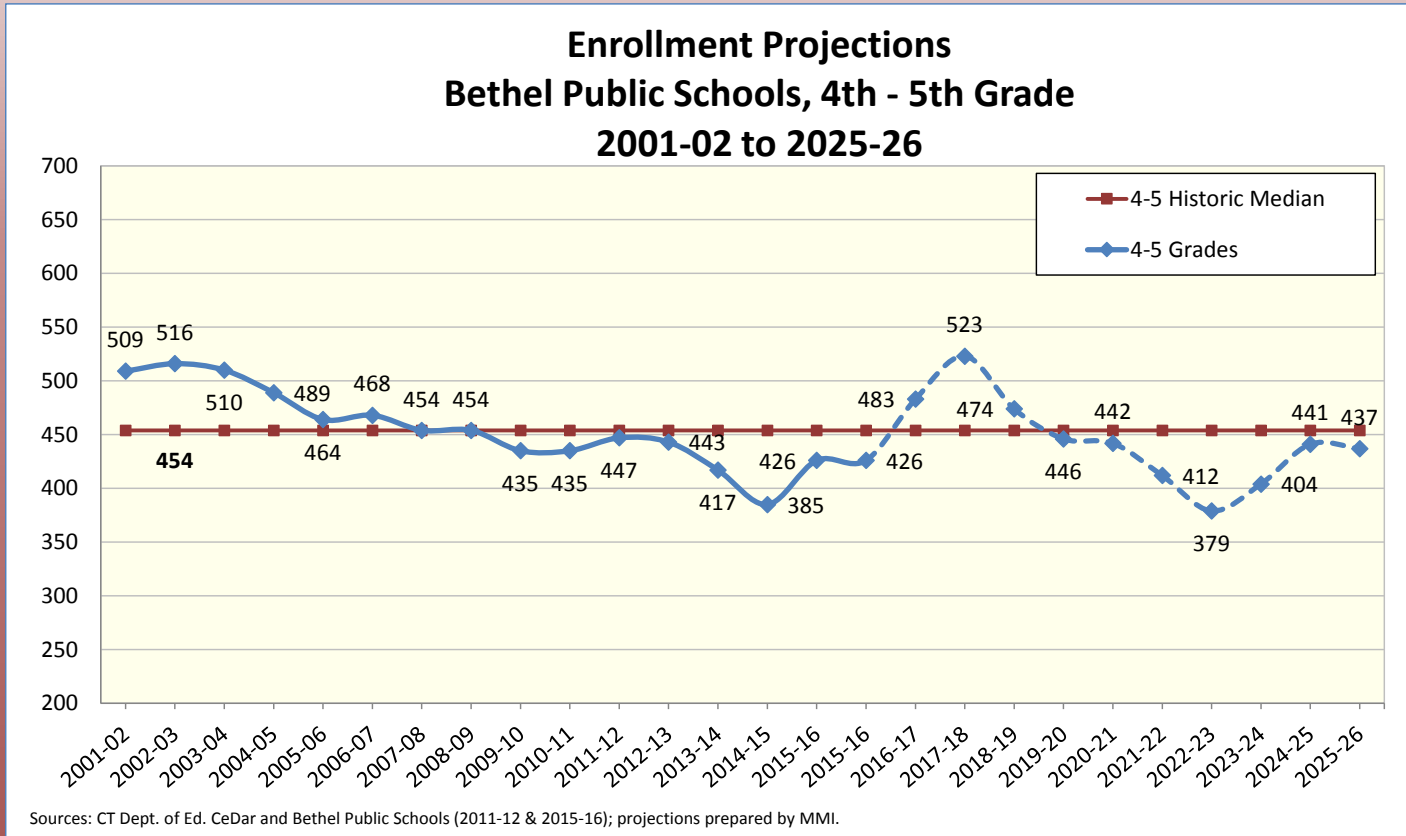
PreK-3rd Enrollment Projections



- Projected decline compounded by matriculation of unusually large current 2nd and 3rd grade cohorts and historic low birth rates through 2013
- Housing sales activity may increasingly compensate for lower birth rates – birth-K ratio needs to be monitored



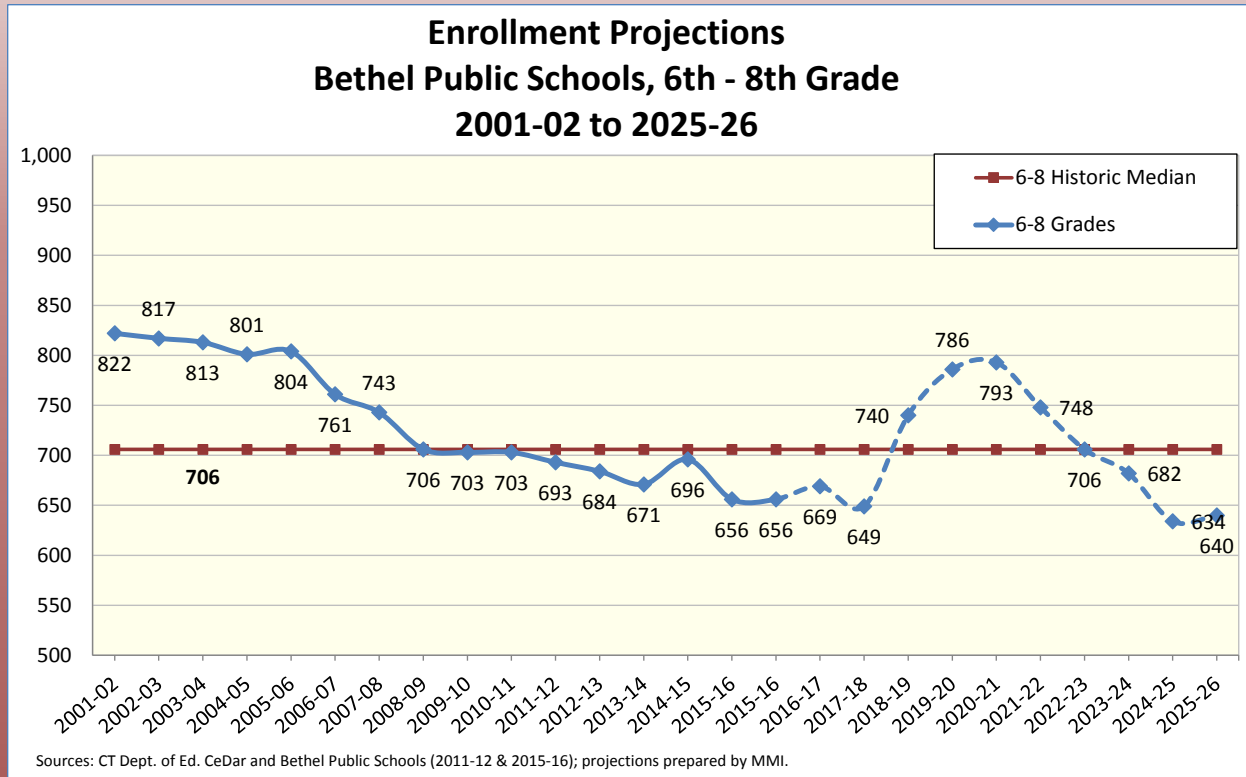
4th – 5th Enrollment Projections



- Projected increase over next few years due to large current 2nd and 3rd grade cohorts
- Historic low birth rates affect latter half of projection horizon



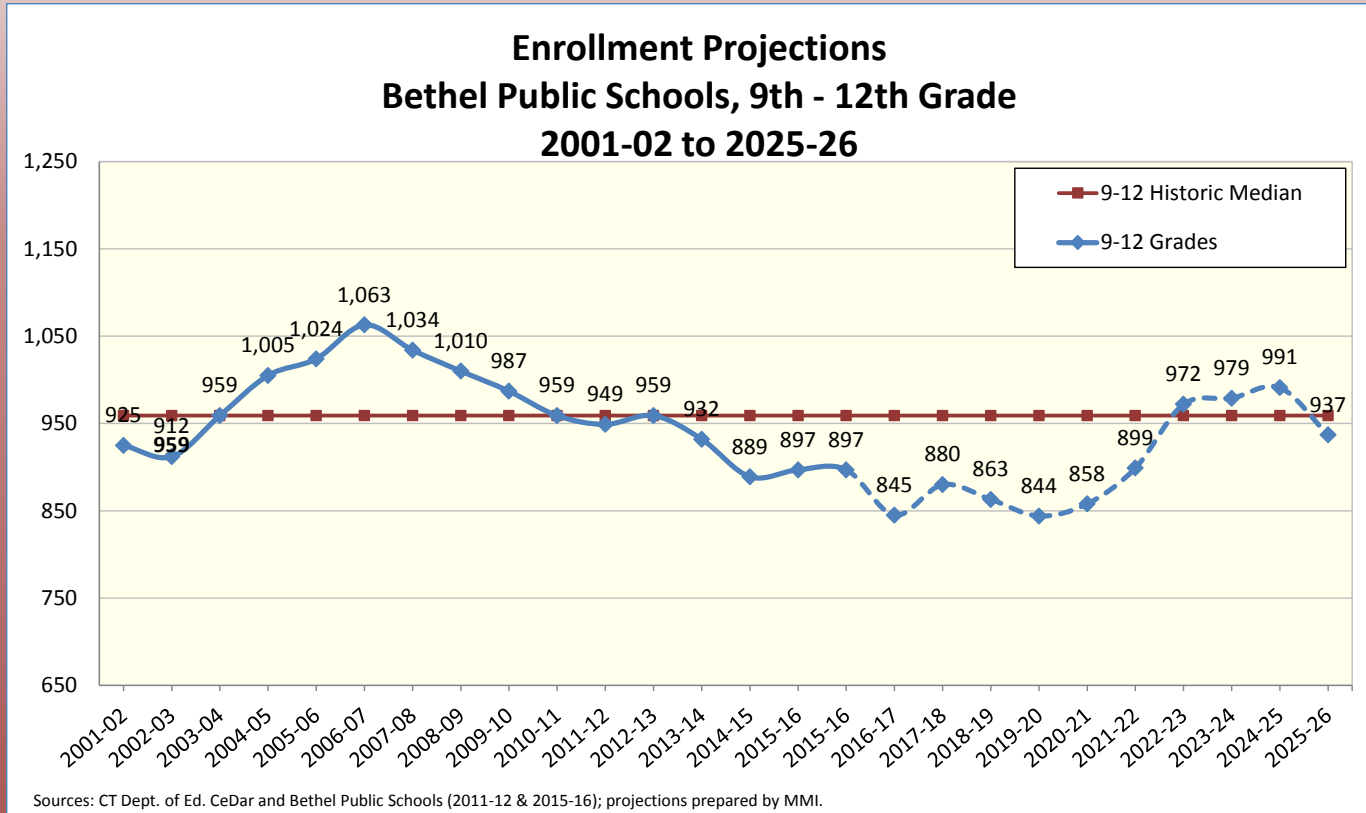
6th – 8th Enrollment Projections



- Projected increase over next few years due to large current 2nd and 3rd grade cohorts moving up
- Historic low birth rates and clearance of consecutive large grade cohorts affect latter half of projection horizon



9th – 12th Enrollment Projections



- Stable enrollments projected over next five years
- Projected increases in latter half of projection horizon



Grade by Grade Projections

School Year	Birth Year	Births	K	1	2	3	4	5	6	7	8	9	10	11	12	PK	Total
2015-16	2010	170	196	190	226	252	212	214	194	245	217	242	203	200	252	115	2,958
2016-17	2011	167	186	197	195	238	266	217	224	194	251	210	236	201	198	117	2,930
2017-18	2012	152	169	187	202	205	251	272	227	224	198	243	205	233	199	117	2,932
2018-19	2013	141	157	170	192	212	217	257	284	227	229	192	237	203	231	117	2,925
2019-20	2014	173	192	158	175	202	224	222	269	285	232	222	187	234	201	117	2,920
2020-21	2015	169	188	193	162	184	213	229	232	270	291	225	216	185	232	117	2,937
2021-22	2016	169	188	189	198	170	194	218	239	233	276	282	219	214	184	117	2,921
2022-23	2017	172	191	189	194	208	180	199	228	240	238	268	275	217	212	117	2,956
2023-24	2018	179	199	192	194	204	220	184	208	229	245	231	261	272	215	117	2,971
2024-25	2019	180	200	200	197	204	216	225	192	208	234	238	225	258	270	117	2,984
2025-26	2020	182	202	201	206	207	216	221	235	192	213	227	232	222	256	117	2,947