

GOMAN-YORK ADVISORY SERVICES

Naugatuck Valley Council of Governments Demographics – Housing – School District Enrollments June 17, 2024

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Introduction

Presentation Overview

The aim of this presentation is to explore Connecticut school district enrollments in the context demographics and housing.

> Dr. Poland is an urban geographer, planner, and community strategist whose work focuses on assisting communities to compete for wealth and investment (socio-economic prosperity) through strategic interventions that build community confidence, foster pride in place, create predictability in market, and grow demand.

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The symbiotic relationship of economics and demographics:

- When jobs stagnate, population stagnates, and the population ages.
- When a population ages, population growth slows.
- When population growth slows, household formations (typically) slow—housing demand slows.
- Jobs, population, and household formations are the primary demand drivers for real property markets.

Job Growth: the primary demand driver, has been mostly stagnant in Connecticut since 1990.

- From 1985 to 1990 (5 years) nonfarm employment increased by **103,400**.
- From 1990 to 2020 (30 years) nonfarm employment increased by 44,800. Stagnation!





Housing and School District Enrollments

Some common assumptions:

- New housing development is the primary driver of school district enrollments.
- New housing unit produce 2 or more new school district enrollments—the assumed driver education costs increase. A fiscal burden.
- Each new enrollment costs \$20,000+- (the total BoE budget / by total enrollment).

When in fact:

- Demographics, especially the changing household structure, are the primary driver of school district enrollments.
- Housing vs Enrollments: Connecticut has 1,433,635 occupied housing units (total households) and 512,652 school enrollments or 0.357 enrollments/unit.
- Total per pupil expenditures overestimate the actual cost of new enrollments.
 - Between 40% and 50% of education budgets are not impacted by changes in enrollment.
 - Actual cost of new enrollments average \$8,000/pupil.
 - For example, fixed expenditure on utilities, maintenance, administration, etc. are typically not impacted by enrollments.



Nationwide Public K-12 Spending Per Pupil Per Year







Conceptualizing Demographic Change and School District Enrollments

1976 – School District Enrollment Per Household



My Childhood Neighborhood

- 34 Housing Units (Households)
 - =
- 73 School Enrollments
- **2.14** enrollments per housing unit





2020 – School District Enrollment Per Household



My Childhood Neighborhood

- 34 Housing Units (Households) =
- 14 School Enrollments
- 0.41 enrollments per housing unit
- Since these homes were constructed in the 1950s and 1960s, 8 of these homes have never produced a school district enrollment.
- Since 1970, 1 new elementary school opened, <u>4 elementary</u> <u>schools closed</u>, and 1 middle school closed.





Questions

What caused this change in the number of children/enrollments per household?

Answer

Demographics!







Demographic Trends: A National Perspective





Population Growth

- Rate of Natural Increase (RNI): when births (fertility) exceed deaths (mortality).
- Crude Birth Rate (CBR):

live births / year1,000 peopledeaths / year1,000 people

- Crude Death Rate (CDR):
- **Total Fertility Rate (TFR):** the average number of children a woman will have throughout her childbearing years—more accurate than CBR.
- Excluding immigration.



United States





















Note: 2018 data are preliminary. Where necessary, TFR and completed fertility values are interpolated. Completed fertility data available from 1976 to 2016 only. All values based upon live births.

Source: Data for GFR obtained from National Center for Health Statistics and Heuser (1976); for completed fertility, U.S. Census Bureau, Current Population Survey; for TFR, National Center for Health Statistics.

PEW RESEARCH CENTER



	Fertility Rate	Deaths	Births	Replacement Rate
Above Replacement	2.4	100	120	2.5 Births = Growth
Replacement	2.3	100	115	Stable
Replacement	2.2	100	110	Stable
Replacement – USA	2.1	100	105	Stable
Below Replacement	2.0	100	100	Decline
United States	1.73	100	82	-18 Births = Decline

U.S. Fertility Rate 2008 - 2020

Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
US	2.08	2.00	1.93	1.89	1.88	1.86	1.86	1.84	1.82	1.77	1.73	1.71	1.64













Age of U.S. first-time moms varies by race and ethnicity

Average age of mother at first birth, 2021



Note: Hispanic adults are of any race. All other categories include those who are not Hispanic and identify as only one race. Race and ethnicity categories come from the Centers for Disease Control and Prevention (CDC). Source: CDC, National Center for Health Statistics.

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Changes in demographic structure are impacting communities and housing markets.

Demographics change how we:

- Live,
- Work,
- Socialize,
- Recreate,
- Consume, and
- the Homes we buy and rent







Demographic Change

- Parents with children under age 18 living at home declined by about 3 million over the past decade, down from 66.1 million in 2010 to 63.1M in 2020.
- There are 36.2 million one-person households (28%). In 1960, one-person households was only 13% of all households.
- In 2020, 33% of adults ages 15 and over had never been married, up from 23% in 1950.
- The estimated median age to marry for the first time is 30.5 for men and 28.1 for women, up from ages 23.7 and 20.5, respectively, in 1947.
- In 2022 more than half (58%) of adults ages 18 to 24 lived in their parental home, up from 55% in 2019.

Questions

What caused this change in the number of children/enrollments per household?

Answer

Demographics:

As an advanced economy, we marry less, we marry later, and we have fewer children. Fewer children means fewer school district enrollments.







Demographic Trends: A Connecticut Perspective







TOTAL POPULATION	Population 2010	Population 2020	Population Change 2010 - 2020	% Change 2010-2020	ADULT POPULATION	Population 2010	Population 2020	Population Change 2010 - 2020	% Change 2010-2020	<18 POPULATION	Population 2010	Population 2020	Population Change 2010 - 2020	% Change 2010-2020
Connecticut	3,574,097	3,605,944	31,847	1%	Connecticut	2,757,082	2,869,227	112,145	4%	Connecticut	817,015	736,717	-80,296	-10%
Fairfield County	916,829	957,419	40,590	4%	Fairfield County	689,810	743,170	53,360	8%	Fairfield County	227,019	214,249	-12,770	-6%
Hartford County	894,014	899,498	5,484	1%	Hartford County	689,971	713,425	23,454	3%	Hartford County	204,043	186,073	-17,970	-9%
Litchfield County	189,927	185,186	-4,741	- 2%	Litchfield County	148,975	151,879	2,904	2%	Litchfield County	40,952	33,307	-7,645	-19%
Middlesex County	165,676	164,245	-1,431	-1%	Middlesex County	130,578	135,983	5,405	4%	Middlesex County	35,098	28,262	-6,836	-19%
New Haven County	862,477	864,835	2,358	0%	New Haven County	669,503	690,994	21,491	3%	New Haven County	192,974	173,841	-19,133	-10%
New London County	274,055	268,555	-5,500	- 2 %	New London County	214,456	216,922	2,466	1%	New London County	59,599	51,633	-7,966	-13%
Tolland County	152,691	149,788	-2,903	- 2 %	Tolland County	121,807	123,584	1,777	1%	Tolland County	30,884	26,204	-4,680	-15%
Windham County	118,428	116,418	-2,010	-2%	Windham County	91,982	93,270	1,288	1%	Windham County	26,446	23,148	-3,298	-12%

Fertility Rate Outcomes

		Fertility Rate	Deaths	Births	Replacement Rate
	Above Replacement	2.4	100	120	2.5 Births = Growth
	Replacement	2.3	100	115	Stable
2020	Replacement	2.2	100	110	Stable
1.51	Replacement – USA	2.1	100	105	Stable
1.64	Below Replacement	2.0	100	100	Decline
-	United States	1.73	100	82	-18 Births = Decline
	Connecticut	1.57	100	73	-27 Births = Decline

U.S. and Connecticut Fertility Rate 2008 - 2020

Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
СТ	1.88	1.80	1.72	1.71	1.66	1.63	1.63	1.63	1.63	1.59	1.57	1.54	1.51
US	2.08	2.00	1.93	1.89	1.88	1.86	1.86	1.84	1.82	1.77	1.73	1.71	1.64



NON-HISPANIC WHITE POPULATION	Population 2010	Population 2020	Population Change 2010 - 2020	% Change 2010-2020	NON-HISPANIC ADULT POPULATION	Population 2010	Population 2020	Population Change 2010 - 2020	% Change 2010-2020	NON-HISPANIC <18 POPULATION	Population 2010	Population 2020	Population Change 2010 - 2020	% Change 2010-2020
Connecticut	2,757,082	2,869,227	-267,030	-10%	Connecticut	2,046,548	1,913,793	-132,755	-6%	Connecticut	499,714	365,439	-132,275	-27%
Fairfield County	606,716	552,125	-54,591	-9%	Fairfield County	470,553	450,466	-20,087	-4%	Fairfield County	136,163	101,659	-34,504	-25%
Hartford County	591,283	523,105	-68,178	-12%	Hartford County	481,437	441,908	-39,529	-8%	Hartford County	109,846	81,197	-28,649	-26%
Litchfield County	173,403	155,601	-17,802	-10%	Litchfield County	138,339	131,221	-7,118	-5%	Litchfield County	35,064	24,308	-10,684	-30%
Middlesex County	143,144	131,954	-11,190	-8%	Middlesex County	115,151	112,302	-2,849	-2%	Middlesex County	27,993	19,652	-8,341	-30%
New Haven County	582,384	509,688	-72,696	-12%	New Haven County	478,657	435,921	-42,736	-9%	New Haven County	103,727	73,767	-29,960	-29%
New London County	214,605	194,894	-19,711	-9%	New London County	173,964	164,712	-9,252	-5%	New London County	40,641	30,182	-10,459	-26%
Tolland County	133,589	120,021	-13,568	-10%	Tolland County	107,576	100,961	-6,615	-6%	Tolland County	26,013	19,060	-6,953	-27%
Windham County	101,138	91,844	-9,294	-9%	Windham County	80,871	76,302	-4,569	-6%	Windham County	20,267	15,542	-4,725	-23%

Connecticut Population/Births by Race

Race	Population	% of Births	
White	63.9%	53.3% 🖊	-
Black	10.7%	12.2%	
Hispanic	18.2%	26.3%	
Asian	5.1%	5.6%	
Native	0.2%	0.1%	

Occupancy Characteristics, Connecticut 2022

	Percent Occupied	Percent Owner-Occupied	Percent Renter-Occupied	
Occupied housing units				
1-person household	29.9%	22.2%	45.2%	
2-person household	33.6%	37.0%	26.9%	
3-person household	16.0%	17.1%	14.0%	
4-or-more-person household	20.4%	23.7%	13.9%	



Demand Drivers – Jobs & Population

- 1985 to 1990 (5 years) nonfarm employment increased by 103,400.
- 1990 to 2020 (30 years) nonfarm employment increased by only 44,800.
- 1990 to 2020 (30 years) population grew by 318,828 persons—mostly from foreign immigration.
- Connecticut Population Growth

1950	2,007,280	17.4%
1960	2,535,234	26.3%
1970	3,031,709	19.6%
1980	3,107,576	2.5%
1990	3,287,576	5.8%
2000	3,405,565	3.6%
2010	3,574,097	4.9%
2020	3,605,944	0.9%



Connecticut Building Permits - New Privately-Owned Housing

Source: Census Bureau - Building Permits Survey







Demographic Trends: Granby Case Study

TOTAL POPULATION	Population 2010	Population 2020	Population Change 2010 - 2020	% Change 2010-2020	ADULT POPULATION	Population 2010	Population 2020	Population Change 2010 - 2020	e % Change 2010-2020	<18 POPULATION	Population 2010	Population 2020	Population Change 2010 - 2020	% Change 2010-2020
Connecticut	3,574,097	3,605,944	31,847	1%	Connecticut	2,757,082	2,869,227	112,145	4%	Connecticut	817,015	736,717	-80,296	-10%
Granby	11,282	10,903	-379	- 3 %	Granby	8,386	8,552	166	2%	Granby	2,896	2,351	-545	-19%
South Windsor	25,709	26,918	1,209	5%	South Windsor	19,515	20,717	1,202	6%	South Windsor	6,194	6,201	7	0%
Fairfield County	916,829	957,419	40,590	4%	Fairfield County	689,810	743,170	53,360	8%	Fairfield County	227,019	214,249	-12,770	-6%
Hartford County	894,014	899,498	5,484	1%	Hartford County	689,971	713,425	23,454	3%	Hartford County	204,043	186,073	-17,970	-9%
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Granby	10,723	9,719	-1,004	- 9 %	Granby	8,050	7,826	-224	-3%	Granby	2,673	1,893	-780	- 29 %
Fairfield County	606,716	552,125	-54,591	-9%	Fairfield County	470,553	450,466	-20,087	-4%	Fairfield County	136,163	101,659	-34,504	-25%
Hartford County	591,283	523,105	-68,178	-12%	Hartford County	481,437	441,908	-39,529	-8%	Hartford County	109,846	81,197	-28,649	-26%
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Granby: Population Pyramid

- Granby's population age structure:
 - Top heavy and will **continue to age** for the next 10 years, or more.
 - Lacking Millennials—the population of primary child rearing years.
 - There are so few person 20 to 44, the population who will produce the next generation of school enrollments.
 - Age 55 down to 30 is an inverted pyramid—indicating possible population implosion.
 - The same is true 19 and under also inverted.





Middlefield, Connecticut



2023 Males Age 50-54

Dots show comparison to 09007 (Middlesex County)

2023 Males Age 85+

85+ 80-84 75-79 70-74 65-69 60-64 55-59 50-54 45-49 40-44 35-39 30-34 25-29 20-24 15-19 10-14 5-9 Male Female 0-4 ____ 6.8 6.0 5.2 4.4 3.6 2.8 2.0 1.2 0.4 0.4 1.2 2.0 2.8 3.6 4.4 5.2 6.0 6.8 7.6 8.4% 8.4% 7.6 The largest group: The smallest group:

2028 Males Age 55-59

AGE PYRAMID - 2028

2028 Males Age 85+

Dots show comparison to 09007 (Middlesex County)



Stonington, Connecticut



Stonington town, CT Stonington town, CT (0901173770) Geography: County Subdivision

AGE PYRAMID - 2028



The largest group: 2028 Females Age 65-69

The smallest group: 2028 Males Age 85+



Prepared by Esri

Dots show comparison to 09011 (New London County)

River COG

POPULATION UNDER 18	Population 2010	Population 2020	Pop. Change 2010 - 2020	% Change 2010-2020	
Connecticut	817,015	736,717	-80298	-10%	
Hartford County	204,043	186,073	-17970	-9%	
Middlesex County	35,098	28,262	-6836	-19%	
New London County	59,599	51,633	-7966	-13%	
Chester	787	557	-230	-29%	
Clinton	2,891	2,262	-629	-22%	
Cromwell	2,914	2,743	-171	-6%	
Deep River	975	735	-240	-25%	
Durham	1,944	1,448	-496	- 26 %	
East Haddam	2,047	1,597	-450	-22%	
East Hampton	2,980	2,537	-443	-15%	
Essex	1,390	949	-441	-32%	
Haddam	1,967	1,697	-270	-14%	
Killingworth	1,561	1,106	-455	-29%	
Lyme	437	339	-98	-22%	
Middlefield	1,006	731	-275	-27%	
Middletown	9,082	7,645	-1437	-16%	
Old Lyme	1,610	1,345	-265	-16%	
Old Saybrook	2,033	1,480	-553	-27%	
Portland	2,179	1,835	-344	-16%	
Westbrook	1,342	940	-402	-30%	
LCTRVR	37,145	29,946	-7,199	-19.4%	

SCHOOL DISTRICT ENROLLMENTS	Enrollment 2008	Enrollment 2021	Enrollment Change	Enrollment 2021 % of 2008
Connecticut	574,848	513,079	-61,769	-10.8%
Chester	341	201	-140	41%
Clinton	2,113	1,570	-543	-25.7%
Cromwell	2.000	1.989	-11	-0%
Deep River	389	218	-171	-46%
Durham (R-13)	2.156	1.440	-716	-33.2%
East Haddam	1.433	935	-498	-34.8%
East Hampton	2.087	1.824	-263	-12.6%
Essex	551	313	-238	-43.2%
Haddam (R-17)	2,562	1,849	-713	-27.8%
Killingworth (R-17)	2,562	1,849	-713	-27.8%
Lyme (R-18)	1,538	1,283	-255	-14.6%
Middlefield (R-13)	2,156	1,440	-716	-33.2%
Middletown	5,088	4,409	-679	-13.4%
Old Lyme (R-18)	1,538	1,283	-255	-14.6%
Old Saybrook	1,621	1,074	-547	-33.7%
Portland	1,433	1,279	-154	-10.7%
Westbrook	985	650	-335	-34%
LCTRVR	24,297	19,034	-5,263	-21.4%



Cheshire, Connecticut



Age Pyramid (Esri 2028) Cheshire town, CT Cheshire town, CT (0900914160) Geography: County Subdivision

AGE PYRAMID - 2028



The smallest group: 2028 Males Age 85+

Dots show comparison to New Haven County

Prepared by Esri



Granby's Housing Characteristics:

- **Occupancy (Tenure):** housing stock overwhelmingly owner-occupied—not surprising since the stock is predominately single-family detached.
- Bedrooms: housing stock is predominately 3 or more-bedrooms (84%)—not surprising since the stock is predominately single-family.
 - Housing with more bedrooms generate more school enrollments.
 - Single-family detached, owner-occupied housing with three or more-bedrooms generates the most school district enrollments.
 - Granby's (and Connecticut's) existing housing stock is mostly designed for families with school age children—for past generations.

Household Size by Housing Tenure

	Town of	Hartford County	State of
	Granby		Connecticut
Occupied housing units	4,147	350,408	1,370,746
Owner-occupied	3,744 (90.3%)	224,640 (64.1%)	905,681 (66%)
Renter-occupied	403 (9.7%)	125,768 (35.9%)	465,065 (33.9%)
Average household size of occupied housing units			
Average household size of owner-occupied unit	2.79	2.61	2.65
Average household size of renter-occupied unit	2.02	2.23	2.28

Bedrooms

	Town of Granby	Hartford	State of
Total housing units	4 209	270 602	1 516 620
Total housing units	4,390	379,002	1,510,029
No bedroom	30	9,234	34,812
1 bedroom	222	49,001	190,973
2 bedrooms	452	105,608	410,732
3 bedrooms	2,019	141,219	551,144
4 bedrooms	1,327	61,054	260,013
5 or more bedrooms	348	13,486	68,955



Housing Production: Past Demand & Absorption

1997-2017 = 33 units/year

1997-2007 = **53 units/year** 2008-2017 = 12 units/year

2018-2021 = 52 units/year

Market Demand/Absorption:

1997-2007: **64.3%** (582 units) of net gain—stronger market 2008-2017: **12.7%** (115 units) of net gain—weaker market 2018-2021: **23.0%** (208 units) of net gain—soft market

Multi-Family

1997-2007 = **0%** market share 2008-2017 = **45.2%** market share 2018-2021 = **62.5%** market share



Granby Buildin	g Permits	1997-2017
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Vear	Total Units	1-Unit	2-Unit	3-4-Unit	5+ Unit	Demo	Net Gain
2021	/1	Q	27	0		2	30
2021	41	11	0	0	26	2	20
2020	40	14	0	0	20	2	38
2019	70	18	0	0	52	6	64
2018	68	16	0	0	52	1	6/
2017	28	12	0	0	16	2	26
2016	49	13	0	0	36	1	48
2015	7	7	0	0	0	0	7
2014	11	11	0	0	0	2	9
2013	10	10	0	0	0	1	9
2012	4	4	0	0	0	1	3
2011	4	4	0	0	0	1	3
2010	6	6	0	0	0	0	6
2009	4	4	0	0	0	2	2
2008	3	3	0	0	0	1	2
2007	17	11	2	4	0	2	15
2006	46	46	0	0	0	0	46
2005	64	64	0	0	0	0	64
2004	43	43	0	0	0	0	43
2003	60	60	0	0	0	0	60
2002	73	73	0	0	0	0	73
2001	60	60	0	0	0	5	55
2000	60	60	0	0	0	7	53
1999	73	73	0	0	0	0	73
1998	46	46	0	0	0	6	40
1997	62	62	0	0	0	2	60
Total	730	672	2	4	52	33	697
Percent	100%	83.2%	0%	1.3%	16.1%	8.9%	92.5%

Source: Connecticut DECD Housing Permit Data (2021). Town of Granby, Years 2018 – 2021.



Granby's Housing Production – Enrollments – Education Expenditures:

- Housing production 2007 to 2017: 130 net gain units.
 - Using the existing housing stock enrollment rate of 0.42 enrollments per unit, we can assume 130 new housing units may have produced 55 new enrollments. However,
- School District enrollments from 2007 to 2017 declined from 2,339 to 1,729, a loss of 610 students or over 25% of total enrollments.
 - The fact that enrollments declined while new housing was added should question the assumption that new housing development is the primary driver of school district enrollments.
- From 2007 to 2017, Granby's School District (BoE) budget increased from \$26,596,912 to \$30,075,085, an increase of \$3,478,173.
 - This means the School District budget increased \$7,276 for every enrollment lost (-478).
 - This should further question the assumption ٠ that school district enrollments are the primary driver of education costs.

		GRANBY SO	GRANBY SCHOOL DISTRICT ENROLLMENTS					
		2008-2021		-610				
		2025-26	1,837					
NET GAIN	2007-2017	2024-25	1,841					
2018-2021	208	2023-24	1,845		G			
2021	39	2022-23	1,790		20			
2020	38	2021-22	1,779		20			
2019	64	2020-21	1,729 (73.9%)	-70	20			
2018	67	2019-20	1,799	-78	20			
2007-2017	130	2018-19	1,877	3	20			
2017	26	2017-18	1,874	-6	20			
2016	48	2016-17	1,880	-81	20			
2015	7	2015-16	1,961	-9	20			
2014	9	2014-15	1,970	-95	20			
2013	9	2013-14	2,065	-47	20			
2012	3	2012-13	2,112	-59	20			
2011	3	2011-12	2,171	-82	20			
2010	6	2010-11	2,253	-41	20			
2009	2	2009-10	2,294	13	20			
2008	2	2008-09	2,281	-58	20			
2007	15	2007-08	2,339 (100%)		20			

GRANBY SCHOOL DISTRICT BUDGET							
2008-2021		-610					
2021-22	\$33,183,506						
2020-21	\$32,043,750	-70					
2019-20	\$31,806,625	-78					
2018-19	\$31,713,128	3					
2017-18	\$30,075,085	-6					
2016-17	\$29,584,962	-81					
2015-16	\$29,895,477	-9					
2014-15	\$29,766,600	-95					
2013-14	\$28,927,288	-47					
2012-13	\$28,746,300	-59					
2011-12	\$28,596,663	-82					
2010-11	\$28,400,894	-41					
2009-10	\$28,306,050	13					
2008-09	\$27.359,617	-58					
2007-08	\$26,596,912						



Housing Production – Enrollments – Education Expenditures:

- From 2007 to 2017 School District enrollments declined by more than 25%.
- New housing is not a primary driver of enrollments, nor are enrollments a primary driver of education expenditures.
 - Note: Adjusting for inflations, the 2007 budget (\$26,596,912) equals \$31,442,906 in 2017 dollars or \$1,367,821 more than the 2017 budget of \$30,075,085.
 - BoE spending increases below the rate of inflation.
- Using the 2007 enrollments (2,339) and the 2017 budget (\$30,075,085), the per pupil expenditures in 2017 would be *\$12,858 instead of \$16,048*.
 - PPE increase as enrollments decrease—the fixed and sunken costs of the education expenditures are capitalized across fewer students. (Yes, this calculation is not perfect.)
- Conclusion: It is time to put the myth that new housing drives education costs (and taxes) behind us and end the practice of fiscal zoning. If Granby is to prosper, it needs younger persons, young families, and school age children.

GRANBY :	GRANBY: COMPARISON 2007-2017									
Year	Year Housing Enrollments BOE Budget									
2007-17	130	-478	\$3,478,173	\$4,677						
2017	26	-6	\$30,075,085	\$16,048						
2016	48	-81	\$29,584,962	\$15,736						
2015	7	-9	\$29,895,477	\$15,245						
2014	9	-95	\$29,766,600	\$15,109						
2013	9	-47	\$28,927,288	\$14,088						
2012	3	-59	\$28,746,300	\$13,611						
2011	3	-82	\$28,596,663	\$13,172						
2010	6	-41	\$28,400,894	\$12,605						
2009	2	13	\$28,306,050	\$12,339						
2008	2	-58	\$27,359,617	\$11,994						
2007	15		\$26,596,912	\$11,371						

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Note: The years listed represent the start of academic years. Data is unavailable for the 2019-20 and 2020-21 school years due to the COVID-19 pandemic. The data source is only divided by girls and boys and does not provide information on sports participation among transgender students.

Data source: National Federation of State High School Associations







Source: National Federation of State High School Associations







Housing and Education: Multi-Family, Enrollments, and Municipal Fiscal Impacts

Case Study: Ellington's Existing Multi-Family Housing and School District Enrollments (2019)

																PSAC	Unit				
Apartment/Condos	01	02	03	04	05	06	07	08	09	ОК	10	11	12	P3	PK	Total	Total	1 B-R	2 B-R	3 B-R	4 B-R
Abbott Place (Abbottville)				1												1	54	0	30	23	1
Autumn Chase	15	15	6	11	6	7	10	5	5	22	6	3	3	3	3	120	332	97	235		
Chaserall Meadows	2		1		1				1		1	1			1	8	60	0	43	17	0
Cider Mill Heights (1 Maple St)	2	3	1		2		1				2	1	2			14	38	4	34		
Cornfield		3	3		3	2	1	1	1	4	2	2		1		23	215	173	42		
Deer Valley (South)	2	4	7	4	1	1	3	1	2	7	2	1			2	37	256	127	129		
Deer Valley North	1	1	2		3	2	1	1		1		2				14	200	100	100		
Ellington Ridge				2	2	1	2	2		1		3				13	158	132	26		
Johnny Appleseed	3	1	2		2	1	2						1			12	120	96	24		
Meadowbrook			1		1								1			3	129	129			
Pinney Hill Apartments												1				1	69	69			
Ellington Meadows (Steeple View)				4	1	1	1	1				1	1			10	49	0	10	39	
Stonebridge Apartments	1					1	1		1			1				5	79	79			
Watercrest Townhouses					1	2			1				1			5	8	8			
Windermere Village	6	3	3	1	2	2	1		1	9						28	95	1	27	63	4
Total	32	30	26	23	25	20	23	11	12	44	13	16	9	4	6	295	1,862	1015	700	142	5

Findings: 1,862 MF Units = 80.6% of Total (2,309) MF Units. 295 Enrollments / 1,862 Units = 0.158 Enrollments/Unit



Case Study: South Windsor Recent Housing Development and Enrollments



Source: South Windsor Public Schools Enrollment Projections, (2020)

South Windsor Census 2010 to 2020

- Total Population = 5%
- Total Adult Pop. = 6%
- Total <18 Pop. = 0%

Enrollment from Recently Completed and Under Construction Housing Developments: As of October 2020

New Development Name	Status	Туре	Occupied Units	K-12 Enrollments/Unit
Clark Estates	Complete	Single-family	18	1.06
Clark Estates II	Complete	Single-family	22	0.86
Evergreen Walk	Complete	Apartments	200	0.18
Residences at Oakland Road	Complete	Apartments	78	0.17
Estates at South Windsor	Complete	Single-family	44	1.02
South Windsor Woods	Under Construction	Condominiums	105	0.62
All New Developments	-		467	0.42

1- and 2-Bedroom multi-family apartments produce very few school district enrollments—less than 0.2 enrollments per unit. Why?

- Low and declining fertility rates
- · High percent of one-person households
- Low percent of family-households with three or more persons



Case Study: Recent Hartford Multi-Family Developments with Granby's Mill Rate:

- Actual appraised and assessed value based on 2021 local government assessment records.
- Motor vehicles approximated based on parking requirements.
- Education expenditures based per pupil cost per new enrollment and New-to-District for 50% of total new enrollments.
- General government services estimated after commercial and industrial property taxes and education expenditures.

Sample Multi-Family Apartments and Tax Value

Name	Town	Units	Appraised	Assessed	Granby Mill Rate	Taxes
275 Ridge Road	Wethersfield	62	\$10,681,934	\$7,477,360	39.61	\$296,178
Heirloom Flats	Bloomfield	215	\$35,564,400	\$24,895,080	39.61	\$986,094
Tempo at Evergreen	South Windsor	192	\$24,861,000	\$17,402,900	39.61	\$689,328
Mansions at Canyon Ridge	East Windsor	115	\$31,118,500	\$21,782,950	39.61	\$862,822
Total =		584	\$102,225,834	\$71,558,290	39.61	\$2,834,422

Sample Municipal Fiscal Impact Summary

Revenues: Real Property Taxes & User Fees		
Real Property Taxes (584 Multi-Family Residential Units)	=	\$2,834,422
Personal Property Taxes (1,022 Motor Vehicles at \$350/vehicle)		\$357,700
Estimated Projection – Total Revenues	=	\$3,192,122
Expenditures:		
Education Enrollment Expenditures (117 Enrollments @ \$9,718/Year)	=	-\$1,137,006
General Government Services – Residential (21% of taxes paid)	=	-\$595,228
Estimated Projection – Total Expenditures		-\$1,732,234
Fiscal Impact Summary		
Estimated Positive Fiscal Impact/Year	=	\$1,459,888

Case Study: Granby Kearns Primary School Property

- 33.8 acres total, approximately 13.8 acres developable.
- Zoned R-30, Multi-Family allowed by Special Permit.
- 8 units per acre allowed, assume 100 units.
- Unit Mix Assume
 - Studio = 10% or 10 units
 - One-Bedroom = 35% or 35 units
 - Two-Bedroom = 45% or 45 units
 - Three-bedroom = 10% or 10 units

100 Housing Units – School Enrollment Projections

Housing Units	Units	Multiplier (1)	PSAC (2)	N-T-D (3)	NTD –E
Studio (10%)	10	0.04	0.4	50%	1
One-Bedroom (35%)	35	0.04	1.4	50%	2
Two-Bedroom (45%)	45	0.25	11.25	50%	6
Three-Bedroom (10%)	10	0.59	5.9	50%	3
Totals	100	[0.23]	22.55 (23)	50%	12

Notes:

- 1) Multipliers: Derived from the Rutgers University, Center for Urban Policy Research "*Residential Demographic Multipliers Connecticut.*"
- 2) PSAC stands for Public School Age Children. It is another way of saying enrollments.
- 3) N-T-D stands for New-To-District: represents the percent of student enrollments who are projected to be new to the Granby School District—most enrollments from new residential development students already enrolled in the District. This is derived from the South Windsor BoE Public Schools Enrollment Projections reports (2018, 2019, and 2020) that shown <u>New-to-District enrollments fluctuate between 13% to 30% of enrollments</u>. Therefore, our utilization of 50% new-to-district enrollments is conservative.

100 Housing Units – School Enrollment Projections

BOE Expenditures	Per Pupil	Total PSE	Total Cost	N-T-D	N-T-D Cost
Total Expenditures	\$18,533	23	\$426,259	12	\$222,396
Local-Share Expenditures	\$15,753	23	\$362,319	12	\$189,036
Allocated Expenditures	\$9,451	23	\$217,373	12	\$113,412

Calculation Notes:

- **Total Expenditures** is the BOE budget divided by the total enrollment. BOE Operating budget 2020-21 = \$32,043,750 / October 1, 2020 enrollment of 1,729 = \$18,533 per pupil.
- Local-Share Expenditure is the per pupil expenditures less non-local tax revenues (federal, state, and other revenue sources). Granby's 2020-21 budget is \$47,622,341. However, 15% or \$7,143,351 comes from intergovernmental sources, not property tax revenue. Therefore, to calculate the fiscal cost of education related to property taxes, the Local-Share Expenditures for education cost per pupil are reduced to 85% of the Total Expenditures (\$18,533) or \$15,753.
- Allocated Expenditures is based on a general analysis of the BOE budget that isolates approximately 35% of the budget that is unlikely to be impacted by changes in enrollment. For example, district office expenditures, school administrative offices, utilities, building operations and maintenance, prorated staffing, etc. Therefore, the Local-Share Expenditure is reduced by 40% to provide for the Allocated Expenditure.
- **N-T-D (New-To-District)** represents the portion or percent of student enrollments who are anticipated to be new to the Granby School District. As discussed above, we estimate 50% new-to-district enrollments. However, due to rounding, the 12 new-to-district enrollments equal 52%.

Summary of Findings

Revenues: Real Property Taxes & User Fees		
Real Property Taxes (100 Multi-Family Units @ \$3,639/unit taxes)	=	\$363,900
Personal Property Taxes (150 Motor Vehicles at \$332/vehicle/year)		\$49,800
Estimated Projection – Total Revenues	=	\$413,700
Expenditures: School Enrollment Projections & Cost		
Enrollment Expenditures (12 Allocated NTD Enrollments @ \$9,451/Year)	=	-\$113,412
Expenditures: Municipal Government		
General Government Services – Residential (21% of taxes paid)	=	-\$86,877
Estimated Projection – Total Expenditures		-\$ 200,2 89
Fiscal Impact Summary		
Total Revenue (Property Taxes)	=	\$413,700
Total Expenditures – (Education & General Government)	=	-\$200,289
Estimated Positive Fiscal Impact/Year	=	\$213,411



Cheshire Case Study: Stonebridge Crossing - Municipal Fiscal Impact

Residential Subdivision – Revenues & Expenditures	Total
Revenues	
Residential Real Property Taxes (140 Units @ \$8,166/unit)	\$1,143,353
Total Revenue	\$1,143,353
Expenditures	
Education Expenditures (Allocated N-T-D)	(\$654,858)
General Government Services – Residential (22.5% of taxes)	(\$257,254)
Total Expenditures	(\$912,112)
(Positive) Municipal Fiscal Impact	\$231,241
· · · · ·	
· · · · ·	
Multi-Family Apartments – Revenues & Expenditures Revenues	Total
Multi-Family Apartments – Revenues & Expenditures Revenues Residential Real Property Taxes (300 Units @ \$3,600/unit)	Total \$1,080,000
Multi-Family Apartments – Revenues & Expenditures Revenues Residential Real Property Taxes (300 Units @ \$3,600/unit) Total Revenue	Total \$1,080,000 \$1,080,000
Multi-Family Apartments – Revenues & Expenditures Revenues Residential Real Property Taxes (300 Units @ \$3,600/unit) Total Revenue Expenditures	Total \$1,080,000 \$1,080,000
Multi-Family Apartments – Revenues & Expenditures Revenues Residential Real Property Taxes (300 Units @ \$3,600/unit) Total Revenue Expenditures Education Expenditures (Allocated N-T-D)	Total \$1,080,000 \$1,080,000 (\$302,994)
Multi-Family Apartments – Revenues & Expenditures Revenues Residential Real Property Taxes (300 Units @ \$3,600/unit) Total Revenue Expenditures Education Expenditures (Allocated N-T-D) General Government Services – Residential (22.5% of taxes)	Total \$1,080,000 \$1,080,000 (\$302,994) (\$243,000)
Multi-Family Apartments – Revenues & Expenditures Revenues Residential Real Property Taxes (300 Units @ \$3,600/unit) Total Revenue Expenditures Education Expenditures (Allocated N-T-D) General Government Services – Residential (22.5% of taxes) Total Expenditures	Total \$1,080,000 \$1,080,000 (\$302,994) (\$243,000) (\$545,994)

(Positive) Municipal Fiscal Impact	=	\$242,825
General Government Services (Expenditures = 30% of taxes)	=	(\$104,067)
Real Property Tax Revenue (90 Units.)	=	\$346,892
Active Adult Housing		



Total Development – Fiscal Impact:

•	Appraised Value	= \$1	167,830,500
•	Assessed Value	= \$2	117,481,350
•	Real Property Taxes	=	\$3,902,730
•	Personal Property Taxes	=	<u>\$251,972</u>
•	Net Fiscal Positive	=	\$1,714,224
•	One-Time Development Fe	es = \$9	05.884



Some Conclusions:

- When a population ages (CT), fertility rates and births (children) decline.
- When children decline, school enrollments decline.
- Most school districts in Connecticut have declining or stagnant enrollments—few districts will return to prior enrollment peaks.
- For the few school districts with increasing enrollments, most of the new enrollments are driven by turnover in the existing single-family housing stock with three or more bedrooms—not new housing, especially not multi-family apartments.
- Education costs are rising regardless of declining (or stagnant) enrollments—per pupil expenditure are increasing due to rising costs but also the costs being spread across fewer enrollments.
- Connecticut needs more housing—especially a housing product better suited for single- and two-person households.
- We (Connecticut towns/cities) need to stop the practice of fiscal zoning and embrace our changing demographics and changing housing market.





Professional Experience: Dr. Donald Poland, AICP

Dr. Poland is a geographer, planner, and community strategist whose work focuses on assisting communities to compete for wealth and investment through strategic market, land use, and planning interventions that build community confidence, foster pride in place, create governance capacity, and grow market demand. With twenty-four years experience the public, private, non-profit, and academic sectors, Dr. Poland offers a unique perspective and approach to addressing the social, economic, and governance challenges of creating and maintaining resilient, vibrant, and prosperous communities.

Education

- Doctor of Philosophy (PhD), Geography. *Cities and Urbanization*. UCL (University College London). 2016
- Master of Science (MS), Geography/planning. CCSU 2000
- Bachelor of Arts (BA), Psychology & Geography. CCSU 1995

Selected Achievements

- Consultancy work spans 19 states and 125+ communities.
- Extensive work on post-Katrina planning, land use, and redevelopment strategies in St. Bernard Parish, Louisiana.
- Accepted as an expert witness in *land use planning, neighborhood redevelopment, and community development* in the US District Court, Eastern District of Louisiana.
- Prepped an economic investment strategy for the City of Oswego, NY that was instrumental the City receiving a \$10 million Downtown Revitalization Grant.

