Enrollment projections prepared for:
Medfield Public Schools
Dale Street School

September 24, 2025

The information herein represents historical enrollment and a projection using the latest data available from the Department of Elementary and Secondary Education, Department of Public Health, U.Mass Donahue Institute, and US Census. While every effort is made to have as accurate a projection as possible using the MSBA's established Enrollment Methodology, the MSBA does not and cannot predict the impact to enrollment of future, unknown events. The MSBA relies on the District to communicate and document any anticipated acute, local changes that may impact enrollment.

Refer to this link for additional information: https://massschoolbuildings.org/index.php/building/prerequisites/enrollment_methodology

Overview

The Massachusetts School Building Authority ("MSBA") works with local communities to create affordable, sustainable, and energy efficient schools across Massachusetts. A critical early component in achieving these objectives begins with an appropriate design enrollment that positions the district to efficiently meet space capacity needs throughout future enrollment variations. Based on an agreed upon design enrollment, the MSBA collaborates with each district and its designer to aggressively pursue strategies to create right-sized facilities that are more affordable to construct and less costly to operate and maintain.

The MSBA, with the assistance of its consultant, developed a data driven enrollment projection methodology based on the modified grade-to-grade cohort survival methodology ("enrollment methodology"). The MSBA's enrollment methodology generates a baseline enrollment projection using historic enrollment data (Department of Elementary and Secondary Education), birth data (Massachusetts Department of Public Health), female population data (US Census Bureau) and female population projections (University of Massachusetts's Donahue Institute, "UMDI") as follows:
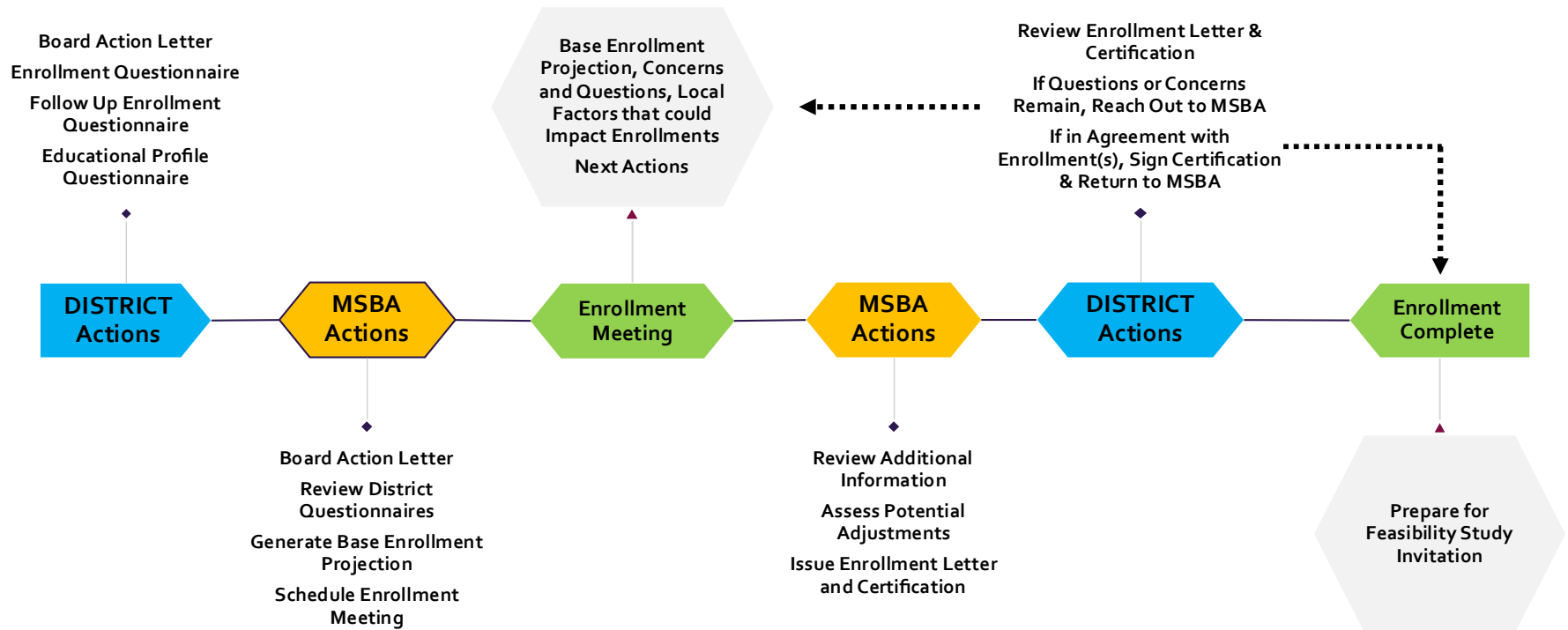
  - Birth and female population data are used to calculate fertility rates;
  - Fertility rates are applied to actual and projected female populations;
  - Birth data and Kindergarten enrollment data is used to calculate an average birth-to-kindergarten ratio;
  - The birth-to-kindergarten ratio is applied to actual and projected births to generate Kindergarten enrollments;
  - Historic enrollment data is used to calculate average grade-to-grade survival ratios (the proportion of students enrolled in one grade and school year to the number of students enrolled in the next grade and school year) to project the number of students in each grade;
  - Grade-to-grade survival ratios are applied to actual and projected student enrollments to generate grade 1-12 enrollment projections; and,
  - The baseline enrollment is calculated using the 10-year average of projected enrollments for the grades to be considered in the proposed feasibility study.

A critical component in setting the design enrollment is an ongoing dialogue with the district throughout the process to understand what they are experiencing in their schools and in their community. Based on district-supplied information, the MSBA generates a baseline enrollment projection using its enrollment methodology. The MSBA and the district meet to share and review the baseline enrollment projection and to further discuss potential grade configurations, school consolidations, housing development and other local factors that the district believes may impact enrollment projections.

Upon agreement of a design enrollment, the MSBA and the district continue to collaborate to further develop the total square foot of the proposed project as informed by the MSBA's space guidelines and the district's educational program. The MSBA grant will be informed in large part by the eligible square footage of the project which is needed to house the student population generated by the enrollment projection.
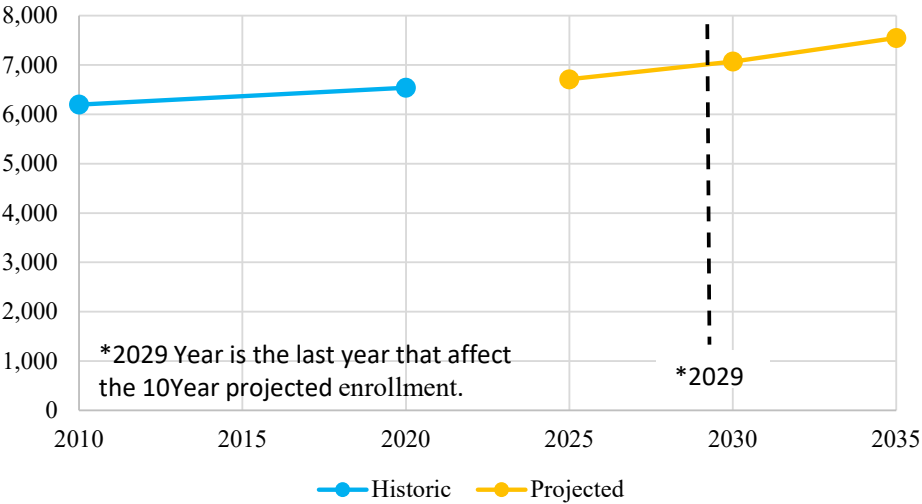
Enrollment Process Milestones

Board Action Letter

Enrollment Questionnaire

Follow Up Enrollment Questionnaire

Educational Profile Questionnaire

Base Enrollment Projection, Concerns and Questions, Local Factors that could Impact Enrollments

Next Actions

Review Enrollment Letter & Certification

If Questions or Concerns Remain, Reach Out to MSBA

If in Agreement with Enrollment(s), Sign Certification & Return to MSBA

DISTRICT Actions

MSBA Actions

Enrollment Meeting

MSBA Actions

DISTRICT Actions

Enrollment Complete

Board Action Letter

Review District Questionnaires

Generate Base Enrollment Projection

Schedule Enrollment Meeting

Review Additional Information

Assess Potential Adjustments

Issue Enrollment Letter and Certification

Prepare for Feasibility Study Invitation

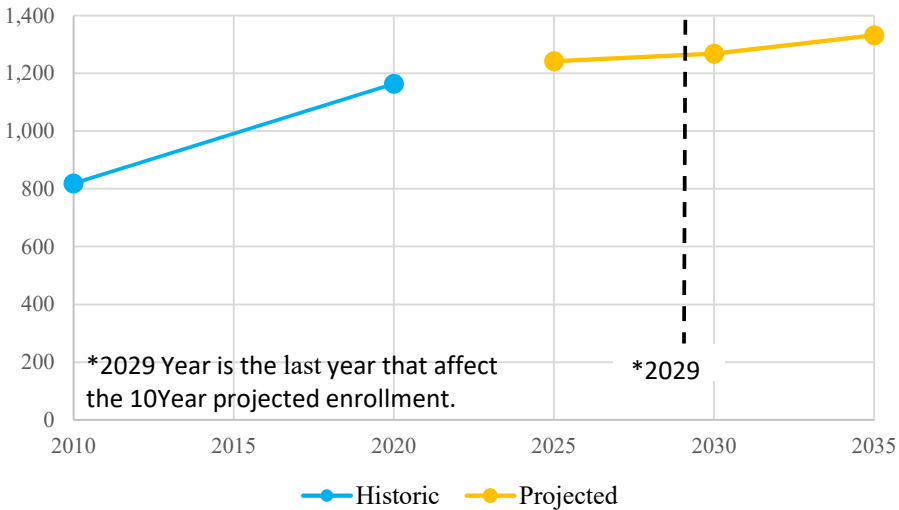Massachusetts School Building Authority

Overall female population had been increasing through 2020 and is projected to continue to increase going forward. The 20-39 Female Age Group followed a similar trend and is also projected to increase through 2035. Historic births have been steadily rising. Projected births for 2024 are greater than district reported births for 2024, and future births are projected to continue to increase.
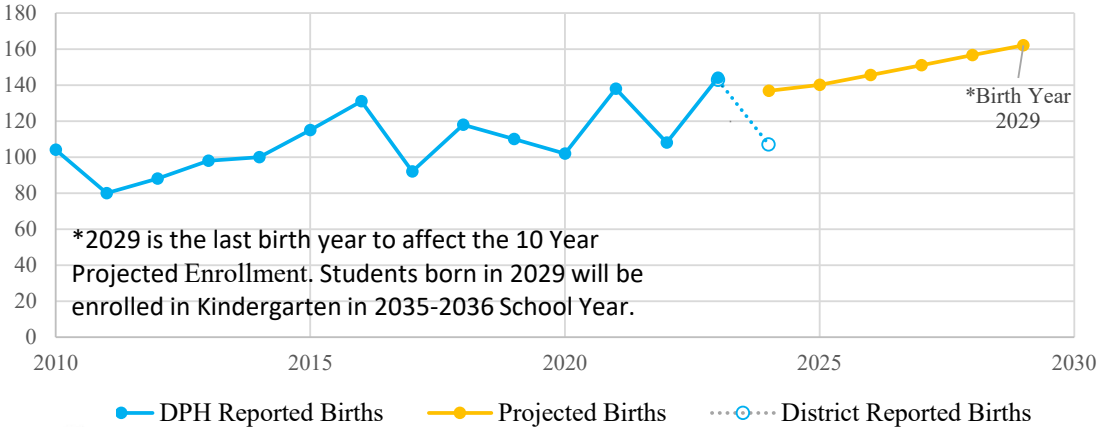
Total Female Trend

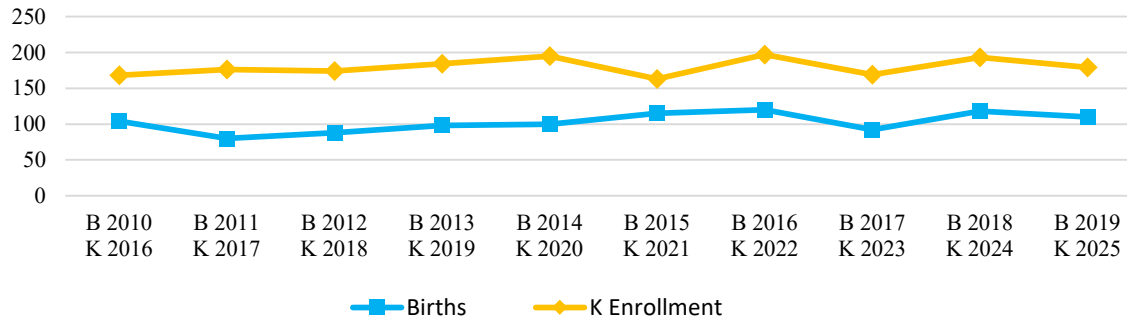*2029 Year is the last year that affect the 10Year projected enrollment.

*2029

Legend: Historic, Projected

Females 20-39 Years Trend

*2029 Year is the last year that affect the 10Year projected enrollment.

*2029

Legend: Historic, Projected

Historic and Projected Births

*Birth Year 2029

*2029 is the last birth year to affect the 10 Year Projected Enrollment. Students born in 2029 will be enrolled in Kindergarten in 2035-2036 School Year.

Legend: DPH Reported Births, Projected Births, District Reported Births

Maternal Age	Average Fertility Rate 2021-2023
10-14 Yrs	0.00%
15-19 Yrs	0.11%
20-24 Yrs	0.89%
25-29 Yrs	4.15%
30-34 Yrs	24.23%
35-39 Yrs	10.65%
40-44 Yrs	1.96%
45-49 Yrs	0.27%

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Birth-to-Kindergarten Relationship

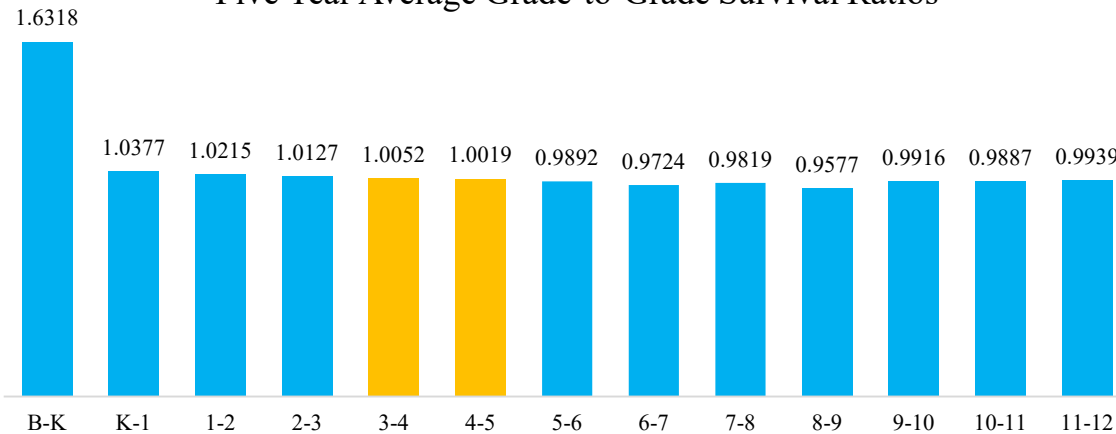|									
B 2010	B 2011	B 2012	B 2013	B 2014	B 2015	B 2016	B 2017	B 2018	B 2019
K 2016	K 2017	K 2018	K 2019	K 2020	K 2021	K 2022	K 2023	K 2024	K 2025

Births — K Enrollment

Kindergarten enrollments for each school year (Based on DESE Oct 1 enrollments) are compared to births 5 years prior to calculate a Birth to Kindergarten ratio. In this example, as presented below the chart, Actual Kindergarten enrollments for school year 2024-25 are divided by births from 2019 to determine the most recent Birth to Kindergarten or B to K ratio. This is repeated for the prior 4 years then averaged to determine the B to K ratio used to project future Kindergarten enrollments.

SY24-25 'actual' K enrollment	=	179	=	1.6273	repeat for the prior (4) yrs	avg the (5) yrs together = 1.6318
CY2019 'actual' births		110				

Birth to K survival ratio is calculated based on 6 years.

Five Year Average Grade-to-Grade Survival Ratios

B-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
1.6318	1.0377	1.0215	1.0127	1.0052	1.0019	0.9892	0.9724	0.9819	0.9577	0.9916	0.9887	0.9939

Similar to the B to K ratio, this year's grade-to-grade survival ratios are calculated by dividing this year's enrollment by last year's enrollment for the prior grade. In the example calculation the most recent enrollment for Grade 1 is divided by prior year's Kindergarten enrollment to determine the most recent Kindergarten to Grade 1 survival ratio. This process is repeated for the four prior years and averaged to determine the K to 1 survival ratio that is used to project future grade 1 enrollments. This is repeated for grades 2 - 12. The 5-year averages for each survival ratio are shown, orange shading indicates grades to be included in the enrollment recommendation.

CALCULATING GRADE-TO-GRADE SURVIVAL RATIOS, grades K-1 example:

SY24-25 'actual' 1 enrollment	=	198	=	1.0259	repeat for the prior (4) yrs	avg the (5) yrs together = 1.0377
SY23-24 'actual' K enrollment		193				

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Births are presented the two left-hand columns. The 5-yr averages of the grade-to-grade survival ratios are shown at the top. The unshaded data below presents the District's K-12 enrollment as reported by DESE through FY25 (School Year 2024-25). The three orange shaded areas present the MSBA's base projection by grade for the next ten years. Average enrollments for the 10 projected years are shown at the bottom.

			B-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	
		5 Yr Avg	1.6318	1.0377	1.0215	1.0127	1.0052	1.0019	0.9892	0.9724	0.9819	0.9577	0.9916	0.9887	0.9939	
Birth CY	Births (in CY)	School Year	K	1	2	3	4	5	6	7	8	9	10	11	12	TTL
2010	104	2015-16	168	162	171	170	187	202	208	200	212	198	219	218	231	2,546
2011	80	2016-17	176	183	174	174	178	191	215	207	204	207	196	220	218	2,543
2012	88	2017-18	174	193	195	183	183	182	195	218	209	199	209	191	229	2,560
2013	98	2018-19	184	187	202	201	189	188	186	195	217	205	198	206	190	2,548
2014	100	2019-20	195	191	187	201	204	194	193	186	196	199	198	201	206	2,551
2015	115	2020-21	163	188	192	190	196	211	191	186	183	185	201	192	195	2,473
2016	120	2021-22	197	181	200	196	194	197	206	184	176	179	183	197	190	2,480
2017	92	2022-23	169	205	179	201	198	191	198	202	182	177	177	186	200	2,465
2018	118	2023-24	193	177	207	182	206	198	193	192	200	163	176	175	185	2,447
2019	110	2024-25	179	198	184	208	181	203	192	190	192	193	159	174	175	2,428
2020	102	2025-26	166	186	202	186	209	181	201	187	187	184	191	157	173	2,411
2021	138	2026-27	225	173	190	205	187	209	179	195	183	179	182	189	156	2,454
2022	108	2027-28	176	234	176	192	206	188	207	174	192	176	177	180	188	2,466
2023	144	2028-29	235	183	239	179	193	206	186	201	171	184	174	175	179	2,505
2024	137	2029-30	223	244	187	242	180	193	204	180	198	164	182	172	174	2,543
2025	140	2030-31	229	232	249	189	243	180	191	198	177	189	163	180	171	2,592
2026	146	2031-32	238	237	237	252	190	243	178	186	195	170	188	161	179	2,653
2027	151	2032-33	247	247	242	240	254	190	241	173	183	187	168	186	160	2,716
2028	157	2033-34	255	256	252	245	241	254	188	234	170	175	185	166	185	2,807
2029	162	2034-35	264	265	261	255	247	241	251	183	230	163	174	183	165	2,883

			K	1	2	3	4	5	6	7	8	9	10	11	12	TTL
		10 yr projected avg:	226	226	224	219	215	209	203	191	189	177	178	175	173	2,603

Oct 1, 2024 Enrollment grades 4-5: **384**   Base Enrollment grades 4-5: **424**
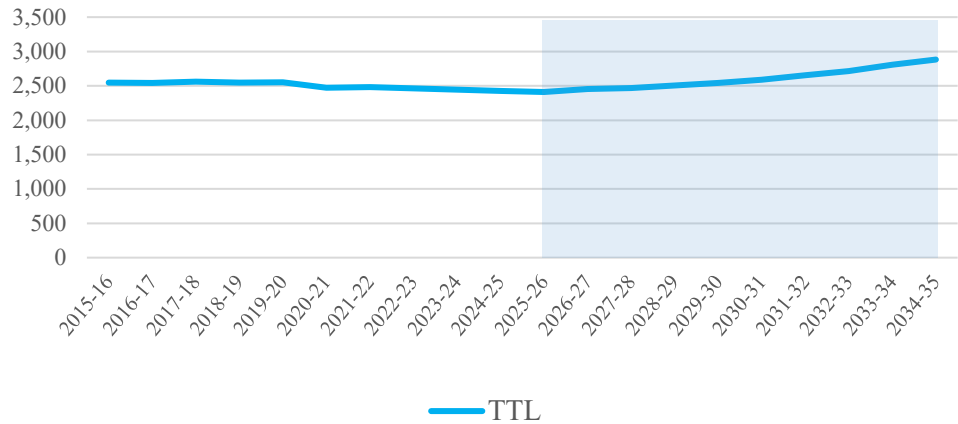
☐ Historic Data.

■ Projections based on DESE Oct.1 Enr. data.

☐ Projections based on DESE Oct.1 Enr. data and actual births.

☐ Projections based on Projected Enrollment and projected births.
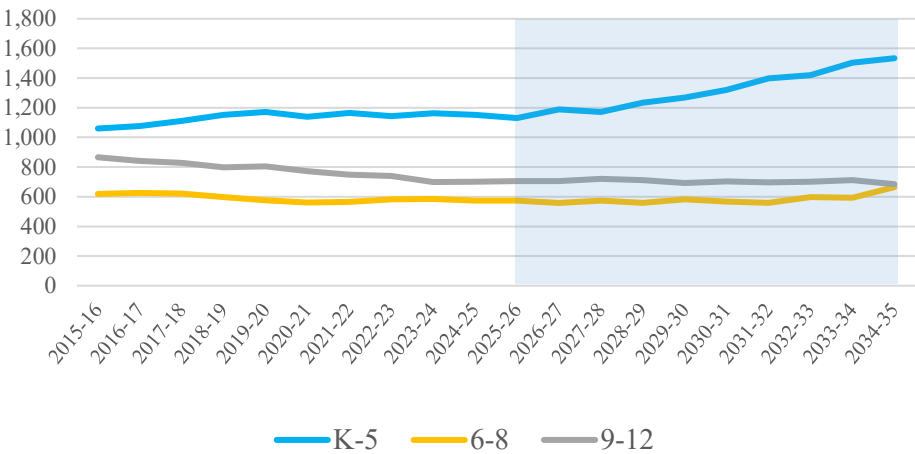
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Total Enrollment has been fairly stable in the recent past but is projected to rise going forward. Enrollment for elementary schools followed a similar trend and is also projected to increase going forward. Enrollment for Middle School and High school grades has been stable and are projected to remain stable during the projection period. Enrollments for the current grades and the proposed grade configuration are shown on the third chart below.
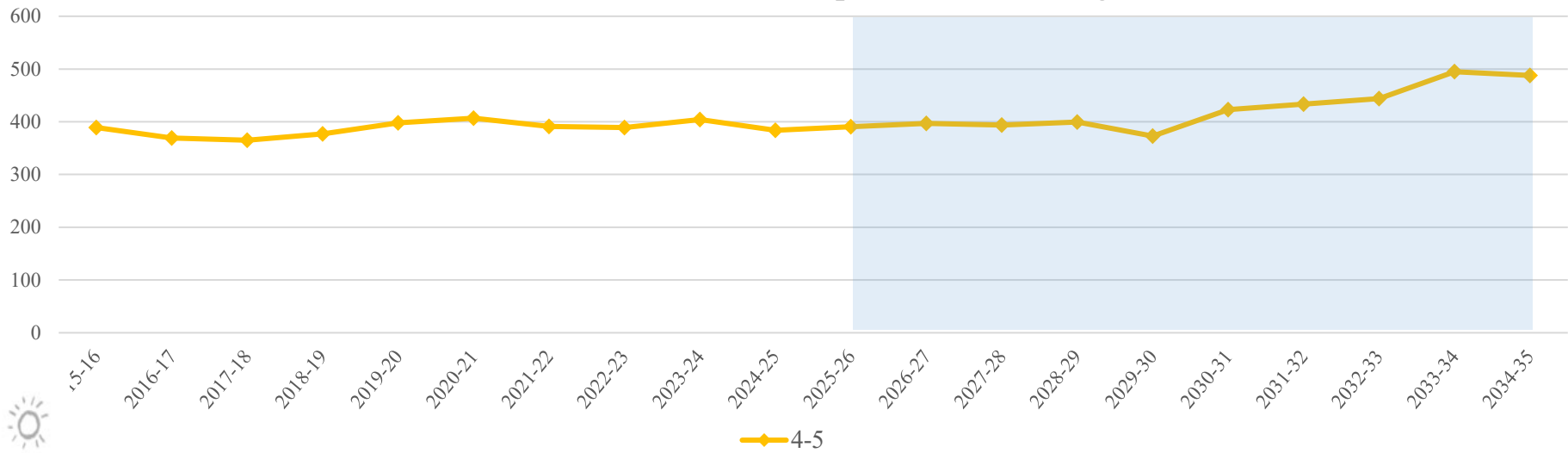
Total Enrollment

Enrollments by Grade Group

Enrollments for Current & Proposed Grade Configuration

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The Housing Data from DOR indicates that total housing has trended upward in Medfield. These communities have averaged a total of 14 new housing units annually over the past 10 years and 16 new housing units annually in the last 5 years. Based on this data and DESE enrollments the Total Number of Students in grades 4-5 per dwelling have been generally stable with some fluctuation.
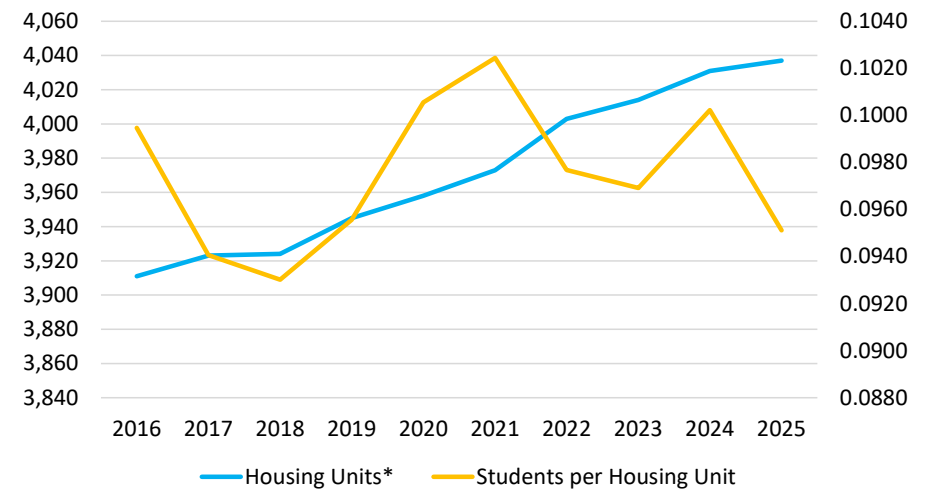
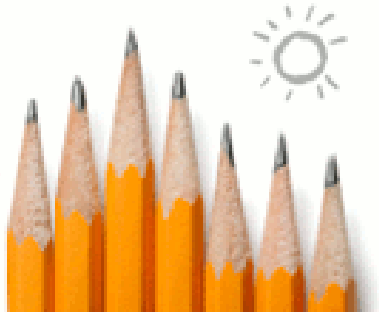| FY	Single Family 101	Condominiums 102	Miscellaneous Residential 103,109	Two Family 104	Three Family 105	Apartment 111-125	Housing Units*	Change	4-5 Enrollment	Students per Housing Unit
2016	3,519	306	5	57	6	18	3,911	15	389	0.0995
2017	3,523	315	5	56	6	18	3,923	12	369	0.0941
2018	3,524	314	5	56	6	19	3,924	1	365	0.0930
2019	3,524	334	5	56	7	19	3,945	21	377	0.0956
2020	3,526	344	7	54	7	20	3,958	13	398	0.1006
2021	3,525	361	7	52	7	21	3,973	15	407	0.1024
2022	3,536	382	7	50	6	22	4,003	30	391	0.0977
2023	3,538	392	7	48	7	22	4,014	11	389	0.0969
2024	3,539	410	7	46	7	22	4,031	17	404	0.1002
2025	3,526	418	17	47	7	22	4,037	6	384	0.0951

*Apartments with more than 3 units are counted as 1

Housing Project Description

Development Name	Description; please include a breakdown of the type of units in this development, i.e., 50% single bedroom units, 50% 2+ bedrooms	Estimated Completion Year
State Hospital Redevelopment Project	Pending funding from the state for a private/public partnership to develop 334 rental units at the old state hospital.	2030

Housing Units & 4-5 Students per Housing Unit

Massachusetts School Building Authority
Funding Affordable, Sustainable, and Efficient Schools in Partnership with Local Communities

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Discussion/Conclusion