2022-23 Enrollment Projection Study for MSAD 6

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EXECUTIVE SUMMARY

One model was used to project future enrollment in MSAD 6. The model used is called the "Best Fit" model is a standard statistical model which projects enrollment based on historical trends and is considered the most likely future enrollment scenario to occur in MSAD 6 **IF** future enrollment follows historical patterns of enrollment.

- The term "best fit" refers to the strongest statistical correlation of trends. The reader should keep in mind the "best fit" model is not always the best fit for predicting future enrollment. This is often the case in situations where the "best fit" model does not adequately account for the impact of resident development, when residential development, economic or population changes are occurring in the area, or when significant and unexpected changes in migration trends or resident birth trends occur in a community.

To provide reasonable cushions for use in planning school facilities, the enrollment projections are presented in the report **Appendix** within ranges of plus and minus 10% for the PreK-8 grade groups, and plus and minus 5% for grades 9-12. In addition, more conservative ranges of plus and minus 3% across all grade levels are supplied. In completing the enrollment projections for MSAD 6, the major findings of this study are as follows:

Resident Birth Trends:

Resident births during the 10-year period (2006-07 to 2015-16) influencing first grade enrollment over the last 10 years (2013-14 to 2022-23), fluctuated year-to-year, declining, on average.

- Average between 2006-07 to 2010-11 was 278 births.
- Average between 2011-12 to 2015-16 was 269 births.
    - Loss of 9 births, on average

Over the last 10-year period of available resident birth data, 2012-13 to 2021-22, births to residents of MSAD 6 averaged 263 births annually, with births significantly fluctuating year-to-year, ranging between 233 and 281 births.

- Average over the most recent 5-year period (2017-18 to 2021-22) was 260 births.
- Average over the last 3-years (2019-20 to 2021-22) was 255 births.
    - The most recent births were influenced by unusual birth years, 2019-20 which had 233 births, the lowest level seen, and was not repeated in 2020-21 where an unusually high level of births occurred (281 births)

When looking at the most recent 3-year average (2019-20 to 2021-22), or 255 births compared to births during the first 5-year period (2006-07 and 2010-11), or 278 births, MSAD 6 experienced an **average loss of 23 births per year**, translating into a loss of 1 class size per year.

The "best fit" projections used the sum of the births used for projections by Town in the district, or the 2022-23 "Best Fit" Model assumes resident births would average about 257 births annually. **Since MSAD 6 has experienced fluctuations in resident births in the past, it is reasonable to assume these fluctuations will continue in the future. However, it is impossible to predict which years will see higher or lower birth levels. Due to the influence resident births have on future first grade enrollment, MSAD 6 will need to keep an eye on future resident births.**

Preschool Migration Trends:

In the first five years of the last decade, (2013-14 to 2017-18), MSAD 6 experienced an out-migration of preschool-aged children. The level of preschool out-migration increased over last five years (2018-19 to 2022-23), and last three years, (2020-21 to 2022-23) an out-migration occurred.

Taken together, a decline in average resident births combined with an average preschool out-migration resulted in first grade class sizes that, on average, declined over the last five years. In addition, fluctuations in the level of resident births and preschool migration levels caused year-to-year fluctuations in first grade class sizes. The lower level of resident births combined with the continuation of the out-migration of students will mean lower levels of enrollment in the future.

Grade-to-Grade Migration Ratio Trends:

When looking at the average trends over the last three years, the most notable change occurred between grades 3-4, 7-8, and 11-12, but no changes to the 2022-23 "Best Fit" Model was needed to account for any of these changes.

- **At grades 3-4 an out-migration occurred over the last 3-year period compared to the in-migration occurring in the first 5-year period.**
  - Since the out-migration occurred during the 5-year period, 4-year period and 2-year period, this is indicative of a trend that would be accounted for by the 2022-23 "Best Fit" Model.
- **At grades 7-8 a higher in-migration occurred over the last two years than seen previously.**
  - While the in-migration is highest over this 2-year period, the in-migration was occurring during the last 5-year, 4-year and 3-year periods and would be accounted for by the 2022-23 "Best Fit" Model.
- **At grades 11-12, an out-migration occurred over the last 2-year period compared to the in-migration occurring in the first 5-year period.**
  - While the out-migration is highest over this 2-year period, the out-migration was occurring during the last 5-year, 4-year and 3-year periods and would be accounted for by the 2022-23 "Best Fit" Model.

New Housing Development Impact on Enrollment:

New housing unit development in MSAD 6 has averaged 107 new housing units added annually over the last ten-year period and future development is estimated to occur between 100 and 155 new housing units added annually. Looking at the level of preschool and elementary migration compared to new housing unit development, revealed migration to be working independently from new housing development. Since a statistical correlation between migration trends and development in MSAD 6 was not found, an additional model based on new housing unit development was not needed for MSAD 6.

Recommendations:

Outside forces such as changes in the economy, housing prices and/or new housing starts, Civilian Labor Force changes, or unexpected national, state, or local events can have an impact on enrollment trends which could in turn alter the outlook of enrollment in MSAD 6. Future enrollment should routinely be monitored for potential changes in trends, specifically looking to see if future enrollment deviates significantly from what is projected. In addition, the district should continue to routinely monitor births to residents, preschool migration trends, grade-to-grade migration trends, and local housing development trends for any notable changes.

2022-23 "Best Fit" Projections for MSAD 6 Resident Students:

The 2022-23 "Best Fit" Model is based on 257 average births (sum of the averages used for each Town in MSAD 6), and on a continuation of preschool out-migration similar to the level occurring over the last ten years, except for the 2023-24 first grade which was based on the 2022-23 Kindergarten enrollment and the 3-year weighted ratio of first grade to Kindergarten.

First Grade Class Size:

- Under the 2022-23 "Best Fit" Model, first grade enrollment is projected to experience yearly swings corresponding with swings in resident births. Enrollment is projected to range between 219 and 264 students, and average 242 students annually through 2032-33.

Grade Group Enrollment:

- PreK-5 resident attending enrollment will remain similar to the current enrollment of 1,510 students to range between 1,502 and 1,521 students through 2024-25. Following 2024-25, enrollment is projected to decline, but should level off to range between 1,472 and 1,492 students through 2032-33.
  - *Another 13 to 14 MSAD 6 resident students in grades PreK-5 are projected to attend non-district schools each year through 2032-33.*
  - *Approximately 36 to 42 nonresident students are projected to attend PreK-8 in MSAD 6 each year through 2032-33.*

- Grades 6-8 resident attending enrollment decline from the current enrollment of 731 students to range between 703 and 720 students through 2026-27. Following 2026-27, enrollment is expected to decline further, but should remain stable, ranging between 681 and 703 students through 2032-33.
  - *Another 14 MSAD 6 resident students in grades 6-8 are projected to attend non-district schools each year through 2032-33.*
  - *Approximately 4 nonresident students are projected to attend grades 6-8 in MSAD 6 each year through 2032-33.*

- Grades 9-12 resident attending enrollment will be similar to the current enrollment of 1,013 students to range between 1,003 and 1,029 students through 2024-25. Following 2024-25, enrollment is projected to decline reaching 944 students in 2026-27. Following 2026-27, enrollment is projected to decline further, but should remain stable, ranging between 896 and 934 students through 2032-33.
  - *Another 49 to 56 MSAD 6 resident students in grades 9-12 are projected to attend non-district schools each year through 2032-33.*
  - *Approximately 7 to 8 nonresident students are projected to attend grades 9-12 in MSAD 6 each year through 2032-33.*

I. INTRODUCTION

Change in school enrollment derives from two sources, changes in the number of births to residents, and the net migration of preschool and school-aged children into and out of a community. These projections reflect both sources of change.

The projections are based on an in-house cohort survival model which contains two steps.

- First, historical trends and relationships between entering class sizes (first grade enrollment) and resident births in the year that is six years before the enrollment year is analyzed. Correlation coefficients (using Pearson's r-squared) are calculated for the last three, four, five, six, seven, eight, nine and ten-year periods regarding the relationship between first grade enrollment and births. The correlation coefficients are examined to determine which period represents the statistical "best fit" for projecting future first grade enrollment based on resident birth data.

- Second, historical trends at each grade level are analyzed, specifically looking at the grade-to-grade survival ratios. These ratios represent the number of students in a grade in one year (i.e., 1st grade in 2021-22) in relation to the number of students in the next grade the following year (i.e., 2nd grade in 2022-23). Then correlation coefficients (using Pearson's r-squared) are calculated for the last three, four, five, six, seven, eight, nine and ten-year periods regarding the relationship between enrollment in a grade in one year and the next grade the following year to determine which period represents the statistical "best fit" at each of the grade levels. The grade-to-grade ratios that represent the "best fit" are then applied to the current enrollment in each grade and projected first grade classes to project enrollment for the next ten years.

- To provide reasonable cushions for use in the planning of school facilities, school enrollment projections are summarized by grade group and presented the projections within ranges of plus and minus 10% for grades PreK-8 and plus and minus 5% for grades 9-12, and plus and minus 3% for grades PreK-12. These ranges and details on the enrollment data and methodologies used for making the projections can be found in the report **Appendix**.

Sections II and IV of this report provides historical enrollment trends and a set of enrollment projections which projects enrollment through 2032-33 for each grade and by grade group in MSAD 6. **Section III** discusses the historical grade-to-grade migration trends used to complete the projections.

Section V of this report presents economic trends, population trends, and residential development factors that may influence enrollment projections.

Grade-by-grade historical and projected enrollment, and ranges for use in school facilities planning are presented in the report **Appendix** along with a detailed explanation of the data used and methodologies.

II. FIRST GRADE ENROLLMENT

A. Historical First Grade Enrollment

First grade enrollment over the last ten years (2013-14 to 2022-23) fluctuated year-to-year while declining, on average. During this ten-year period, first grade enrollment ranged between 229 and 277 students, with an average enrollment of 257 students. The average first grade enrollment over the last five years (2018-19 to 2022-23), was 250 students, a lower average level of enrollment compared with the average of the previous five-year period (2013-14 to 2017-18), or 264 students. Enrollment over the last three years (2020-21 to 2022-23) declined further from the most recent five-year average, with first grade enrollment averaging 240 students. ***(See Table II-1 and Figure-2).***

B. Resident Births Influencing Historical Enrollment

Resident births during the ten-year period (2006-07 to 2015-16) influencing first grade enrollment over the last ten years (2013-14 to 2022-23), fluctuated year-to-year, declining, on average. The average number of births over the last five years of the period, (2011-12 to 2015-16), was 269 births, which was 9 births lower than the previous five-year period (2006-07 to 2010-11), which had an average of 278 births per year. However, over the last three years of the period (2013-14 to 2015-16) births averaged 271 births annually. **Overall resident births in MSAD 6 have fluctuated year-to-year while declining on average, placing downward pressure on first grade class sizes over the last ten years.** ***(See Table II-1 and Figure-1).***

C. Resident Births Influencing Future Enrollment

Over the last ten-year period of available resident birth data, 2012-13 to 2021-22, births to residents of MSAD 6 averaged 263 births annually, with births significantly fluctuating year-to-year, ranging between 233 and 281 births. The most recent five-year period (2017-18 to 2021-22) declined to average 260 births, and over the last three years (2019-20 to 2021-22) the average of births to residents continued to decline, to average 255 births. The most recent births were influenced by unusual birth years, 2019-20 which had 233 births, the lowest level seen, and was not repeated in 2020-21 where there was a high level of births, or 281 births occurred. When looking at the most recent average of births compared to births between 2006-07 and 2010-11 (average of 278 births per year), MSAD 6 experienced an average loss of 23 births per year, and a loss of 23 births per year translates into a loss of 1 class size per year. ***(See Table II-1 and Figure 1).***

The "best fit" projections used the sum of the births used in the projections by Town in MSAD 6, or the 2022-23 "Best Fit" Model assumes resident births would average about 257 births annually, a level of births falling in-between the most recent three-year (2019-20 to 2021-22) and five-year (2017-18 to 2021-22) average of births. **Additionally, since MSAD 6 has experienced fluctuations in resident births in the past, it is reasonable to assume these fluctuations will continue to occur in the future. However, it is impossible to predict which years will see higher or lower birth levels. Due to the influence resident births have on future first grade enrollment, the district will need to keep an eye on future resident births.**

D. Net Preschool Migration Trends

In the first five years of the last decade, (2013-14 to 2017-18), MSAD 6 experienced an out-migration of preschool-aged children, with an average migration ratio of 0.960, or first grade experienced an average decline of about 4% from the number of births six years prior. In the past five years, (2018-19 to 2022-23), MSAD 6 experienced a higher level of preschool out-migration, with an average migration ratio of 0.929, or an average decline of 7.1%. Additionally, over the last three years, (2020-21 to 2022-23), preschool out-migration continued, and at a rate higher than the five-year period, with an average ratio of 0.888, or an average 11.2% loss from births. **Overall, when looking at average migration trends the average preschool out-migration placed downward pressure on first grade class sizes.** ***(See Table II-1).***

While the average trends show preschool out-migration, when looking at the year-by-year migration trends there appears to have been significant year-to-year fluctuations in migration. For example, in 2019-20 an in-migration of 5.9% occurred, then in 2020-21 an out-migration of 9.5% occurred. While the first thought would be this is the result of the Global COVID-19 Pandemic, the preschool migration did not return to an in-migration over the last two years, and instead out-migration increased.

Since historically there have been fluctuations in the year-to-year migration trends it stands to reason that future first grade classes will experience similar year-to-year fluctuations. This makes accurately projecting the first-grade class sizes more difficult as there is no way to predict what future fluctuations will look like year-to-year. Therefore, the district will need to keep an eye on the first-grade class sizes, keeping in mind that fluctuations in enrollment will continue to occur.

NOTE: Taken together, a decline in average resident births combined with an average preschool out migration resulted in first grade class sizes that, on average, declined over the last five years. In addition, fluctuations in the level of resident births and preschool migration levels caused year-to-year fluctuations in first grade class sizes.

E. Projections of Entering First Grade Class Sizes

The 2022-23 "Best Fit" Model is based on 257 average births (sum of the averages used for each Town in MSAD 6), and on a continuation of preschool out-migration similar to the level occurring over the last ten years, except for the 2023-24 first grade which was based on the 2022-23 Kindergarten enrollment and the 3-year weighted ratio of first grade to Kindergarten. ***(See Table II-1 and Figure-2).***

- Under the 2022-23 "Best Fit" Model, first grade enrollment is projected to experience yearly swings corresponding with swings in resident births. Enrollment is projected to range between 219 and 264 students, and average 243 students annually through 2032-33.

Table II-1 - Relationship of Entering First Grade Class Size to Resident Births
MSAD 6 - Resident Attending Enrollment

Birth Year (Oct. 15 - Oct. 14)	# of Resident Births	First Grade Year	Best Fit Model		
			Enrollment	Ratio 1st/Births	+/-%
2006-07	336	2013-14	277	0.824	-17.6%
2007-08	272	2014-15	273	1.004	0.4%
2008-09	291	2015-16	276	0.948	-5.2%
2009-10	243	2016-17	240	0.988	-1.2%
2010-11	246	2017-18	255	1.037	3.7%
2011-12	282	2018-19	260	0.922	-7.8%
2012-13	253	2019-20	268	1.059	5.9%
2013-14	263	2020-21	238	0.905	-9.5%
2014-15	278	2021-22	254	0.914	-8.6%
2015-16	271	2022-23*	229	0.845	-15.5%
2016-17	265	2023-24	243	0.917	-8.3%
2017-18	272	2024-25	256	0.941	-5.9%
2018-19	263	2025-26	247	0.939	-6.1%
2019-20	233	2026-27	219	0.940	-6.0%
2020-21	281	2027-28	264	0.940	-6.0%
2021-22*	252	2028-29	237	0.940	-6.0%
2022-23 est	257	2029-30	241	0.938	-6.2%
2023-24 est	257	2030-31	241	0.938	-6.2%
2024-25 est	257	2031-32	241	0.938	-6.2%
2025-26 est	257	2032-33	241	0.938	-6.2%
10-Yr Avg. (2006-07 to 2015-16)	274	**10-Yr Avg. (2013-14 to 2022-23)**	257	0.945	-5.5%
5-Yr Avg. (2006-07 to 2010-11)	278	**First 5-Yr Avg. (2013-14 to 2017-18)**	264	0.960	-4.0%
5-Yr Avg. Births (2011-12 to 2015-16)	269	**Most Recent 5-Yr Avg. (2018-19 to 2022-23)**	250	0.929	-7.1%
Births 3-Yr Avg. (2013-14 to 2015-16)	271	**Most Recent 3-Yr Avg. (2020-21 to 2022-23)**	240	0.888	-11.2%
Most Recent 10-Yr Avg. (2012-13 to 2021-22)	263	**Projected 10-Yr Avg. (2023-24 to 2032-33)**	**243**	0.937	-6.3%
Most Recent 5-Yr Avg. (2017-18 to 2021-22)	260				
Most Recent 3-Yr Avg. (2019-20 to 2021-22)	255				

Births: Maine Center for Disease Control and Prevention, Data, Research and Vital Statistics. 2022 births are preliminary and provisional; *Future births between 2022-23 and 2025-26 were based on the sum of the births used for each town's first grade enrollment projections. **Note:** Enrollment includes all resident students attending district schools. First to birth ratios shown here are based on the rounded first grade projection from the Entering Class to Births Ratio Worksheet. **Historical Enrollment Source:** 2012-2017 from MDOE, 2018-2022 from the district. All else calculated by Wandell Consulting.

Figure 1

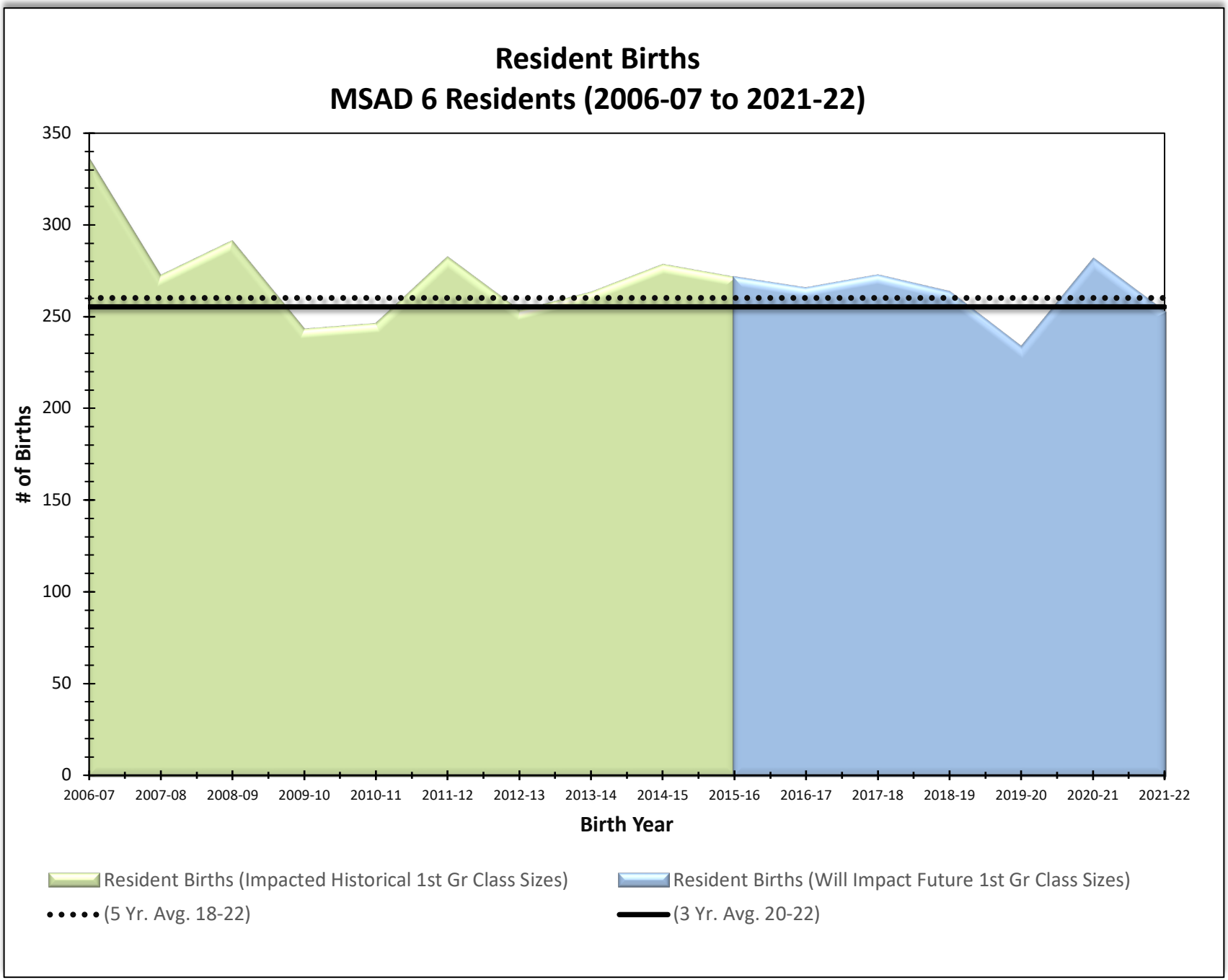
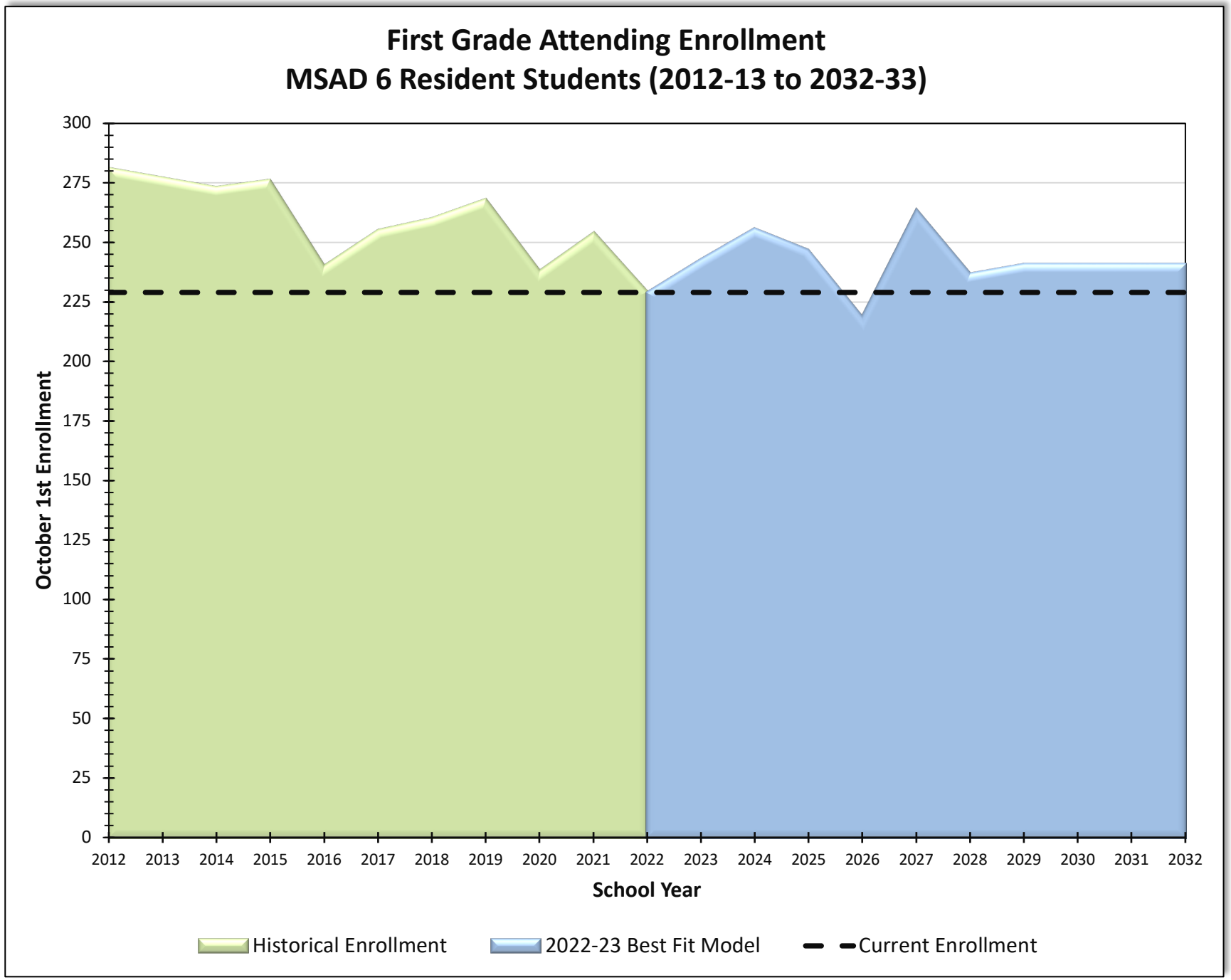

Resident Births
MSAD 6 Residents (2006-07 to 2021-22)
350
300
250
200
150
100
50
0
# of Births
2006-07
2007-08
2008-09
2009-10
2010-11
2011-12
2012-13
2013-14
2014-15
2015-16
2016-17
2017-18
2018-19
2019-20
2020-21
2021-22
Birth Year
Resident Births (Impacted Historical 1st Gr Class Sizes)
Resident Births (Will Impact Future 1st Gr Class Sizes)
(5 Yr. Avg. 18-22)
(3 Yr. Avg. 20-22)

Figure 2


First Grade Attending Enrollment
MSAD 6 Resident Students (2012-13 to 2032-33)
October 1st Enrollment
300
275
250
225
200
175
150
125
100
75
50
25
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

III. GRADE-TO-GRADE MIGRATION TRENDS

After assessing preschool-migration trends and establishing first grade enrollment, the migration trends between grades are examined and grade-to-grade survival ratios are established. These ratios represent the number of students in a grade in one year (i.e., 1st grade in 2021-22) in relation to the number of students in the next grade the following year (i.e., 2nd grade in 2022-23). The historical average grade-to-grade survival ratios for the last three, four, five, six, seven, eight, nine and ten-year periods are analyzed to determine which period represents the statistical "best fit" at each of the grade levels. The grade-to-grade ratios that represent the "best fit" are then applied to the current enrollment in each grade and projected first grade classes to project enrollment for the next ten years. This section will show how the grade-to-grade migration trends have changed, on average, in MSAD 6.

Appendix Table-3 shows average grade-to-grade survival ratios in MSAD 6 for grades K-12 along with how the ratios translate into a loss or addition of new students. For example, the 10-year K-1 average ratio was 0.989, this translates to an average student out-migration of 1.1% between Kindergarten and first grade over the last decade. When looking at the grade-to-grade ratios over the last two years (2021-22 to 2022-23) and three years (2020-21 to 2022-23) compared to what occurred over the first five-years of the period examined (2013-14 to 2017-18), student migration trends in MSAD 6 have changed somewhat.

The most notable change occurred between grades 3-4, 7-8, and 11-12.

- **At grades 3-4 an out-migration occurred over the last 3-year period compared to the in-migration occurring in the first 5-year period.**
  - Since the out-migration occurred during the 5-year period, 4-year period and 2-year period, this is indicative of a trend that would be accounted for by the 2022-23 "Best Fit" Model.
- **At grades 7-8 a high in-migration occurred over the last two years than seen previously.**
  - While the in-migration is highest over this 2-year period, the in-migration was occurring during the last 5-year, 4-year and 3-year periods and would be accounted for by the 2022-23 "Best Fit" Model.
  - However, the district should keep an eye on the migration between grades 7 and 8.
- **At grades 11-12, an out-migration occurred over the last 2-year period compared to the in-migration occurring in the first 5-year period.**
  - While the out-migration is highest over this 2-year period, the out-migration was occurring during the last 5-year, 4-year and 3-year periods and would be accounted for by the 2022-23 "Best Fit" Model.
  - However, the district should keep an eye on the migration between grades 11 and 12.

What this means is while there has been some change in overall grade-to-grade migration at a couple of grade levels, the changes are not so significant that additional modeling was warranted. Instead, the 2022-23 "Best Fit" Model accounts for variations in the plus and minus ranges of 3%, 5%, and 10% supplied. Therefore, the 2022-23 "Best Fit" model for MSAD 6 is the most reasonable model to project future on enrollment trends.

Appendix Table 3

MSAD 6 Attending Enrollment - Average Grade-to-Grade Survival Ratios - 2022-23 Best Fit Model

School Year	Grade											
	K-1		1-2		2-3		3-4		4-5		5-6	
	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-
10 Year Avg. (13-22)	0.989	-1.1%	0.985	-1.5%	0.972	-2.8%	0.991	-0.9%	1.006	0.6%	0.994	-0.6%
1st 5-Year Avg. (13-17)	0.983	-1.7%	0.990	-1.0%	0.966	-3.4%	1.011	1.1%	1.003	0.3%	1.006	0.6%
Last 5-Year Avg. (18-22)	0.994	-0.6%	0.981	-1.9%	0.977	-2.3%	0.972	-2.8%	1.008	0.8%	0.983	-1.7%
Last 4-Year Avg. (19-22)	1.000	0.0%	0.984	-1.6%	0.979	-2.1%	0.969	-3.1%	1.007	0.7%	0.991	-0.9%
Last 3-Year Avg. (20-22)	0.996	-0.4%	0.976	-2.4%	0.973	-2.7%	0.961	-3.9%	1.004	0.4%	0.991	-0.9%
Last 2-Year Avg. (21-22)	1.043	4.3%	1.008	0.8%	0.992	-0.8%	0.980	-2.0%	1.002	0.2%	1.003	0.3%

School Year	Grade											
	6-7		7-8		8-9		9-10		10-11		11-12	
	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-
10 Year Avg. (13-22)	0.995	-0.5%	1.000	0.0%	0.963	-3.7%	0.996	-0.4%	0.975	-2.5%	1.001	0.1%
1st 5-Year Avg. (13-17)	0.991	-0.9%	0.992	-0.8%	0.962	-3.8%	0.985	-1.5%	0.958	-4.2%	1.016	1.6%
Last 5-Year Avg. (18-22)	0.999	-0.1%	1.009	0.9%	0.964	-3.6%	1.007	0.7%	0.992	-0.8%	0.986	-1.4%
Last 4-Year Avg. (19-22)	1.005	0.5%	1.010	1.0%	0.960	-4.0%	1.010	1.0%	0.988	-1.2%	0.984	-1.6%
Last 3-Year Avg. (20-22)	0.999	-0.1%	1.019	1.9%	0.973	-2.7%	1.006	0.6%	0.990	-1.0%	0.977	-2.3%
Last 2-Year Avg. (21-22)	1.000	0.0%	1.042	4.2%	0.976	-2.4%	0.990	-1.0%	0.989	-1.1%	0.943	-5.7%

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

IV. RESIDENT AND ATTENDING ENROLLMENT TRENDS

The resident figures include all resident students attending MSAD 6 schools, and resident students attending school outside of the district except for 100% home schooled students and any students attending private schools. The projections are also provided in ranges of plus and minus 3% and 10% for grades PreK-8, and 3% and 5% for grades 9-12. ***(See Appendix Tables 2 through 10 and Figures 3 through 6).***

In addition to the MSAD 6 enrollment as a district, enrollment for each town (Buxton, Hollis, Limington, and Standish) in the district was completed and supplied in the following Sections V through VIII. However, due to the smaller population sizes in each of the towns involved, there was a significant amount of skewing of the data and migration ratios. Due to the skewing of data, the enrollment projections by town are less reliable than enrollment projections completed using the enrollment data for the district. However, the enrollment projections by town should provide some insight on what birth and enrollment trends have been in each town. Additionally, the ""Best Fit"" models should provide some guidance on the overall enrollment outlook in each town. Detailed tables and charts for each town can be found in the report Appendix.

A. Resident and Attending Enrollment Trends and Projections for Grades PreK-5

Historical Trends:

Since 2012-13, resident attending enrollment in grades PreK-5 declined from 1,773 students in 2012-13 to reach 1,480 students by 2021-22. Following 2021-22 enrollment increased slightly to reach 1,510 students in 2022-23.

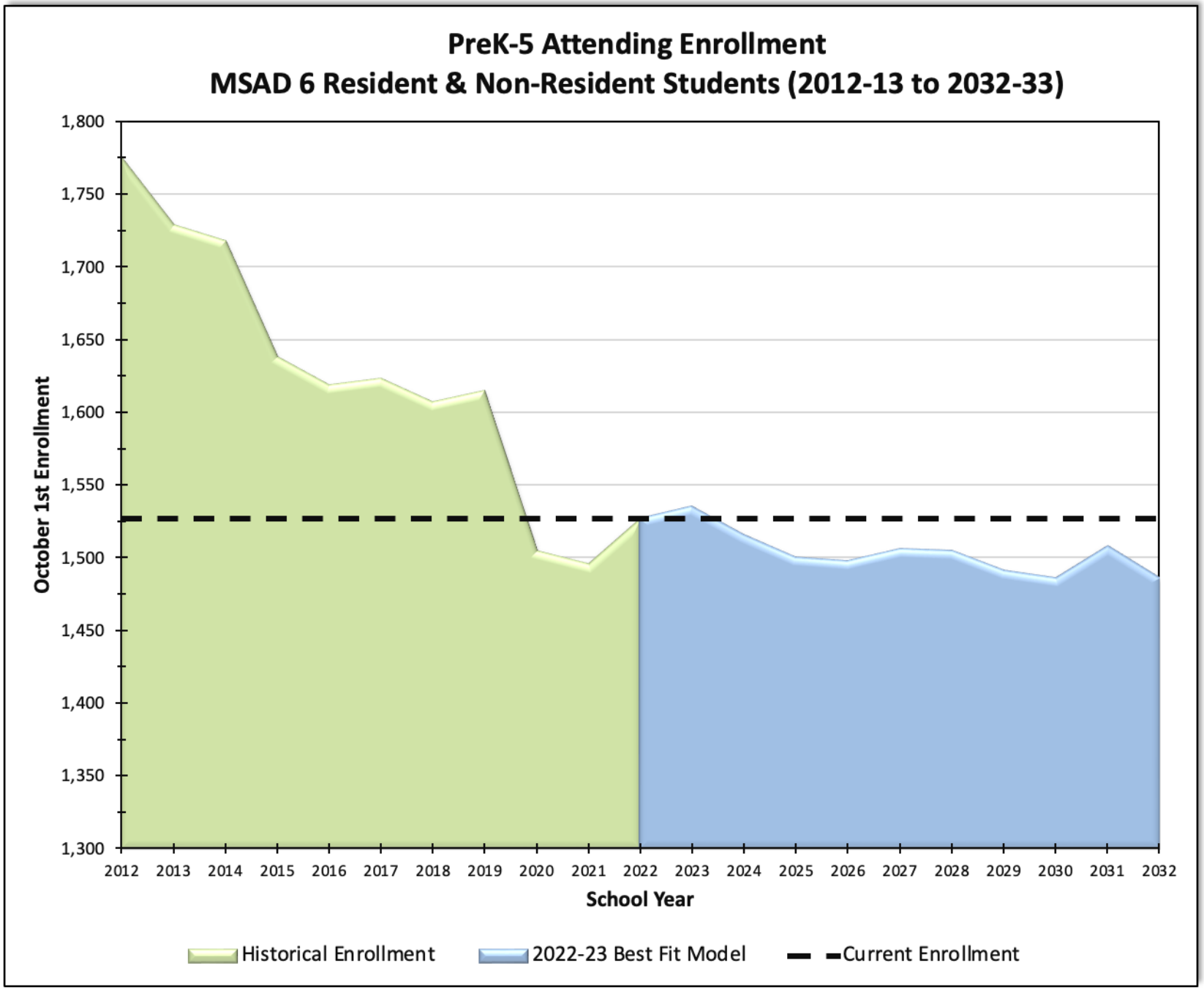
- *Enrollment of MSAD 6 students attending out of district schools ranged between 5 and 7 students through 2013-14 before increasing to range between 11 and 20 students through 2022-23.*
- *Enrollment of non-resident students attending district schools ranged between 2 and 15 students through 2019-20. Following 2019-20, enrollment of out of district students increased to range between 16 to 17 students through 2022-23.*

2022-23 "Best Fit" Model:

Under the 2022-23 "Best Fit" Model, PreK-5 resident attending enrollment will remain similar to the current enrollment of 1,510 students to range between 1,502 and 1,521 students through 2024-25. Following 2024-25, enrollment is projected to decline, but should level off to range between 1,472 and 1,494 students through 2032-33.

- *Another 13 to 14 MSAD 6 resident students in grades PreK-5 are projected to attend non-district schools each year through 2032-33.*
- *Approximately 14 nonresident students are projected to attend PreK-5 in MSAD 6 each year through 2032-33.*

Figure 3


PreK-5 Attending Enrollment
MSAD 6 Resident & Non-Resident Students (2012-13 to 2032-33)
October 1st Enrollment
1,800
1,750
1,700
1,650
1,600
1,550
1,500
1,450
1,400
1,350
1,300
2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

B. Resident and Attending Enrollment Trends and Projections for Grades 6-8

Historical Trends:

Since 2012-13, resident attending enrollment in grades 6-8 fluctuated year-to-year, ranging between 879 and 920 students through 2015-16. Following 2015-16, enrollment declined to 731 students by 2022-23.

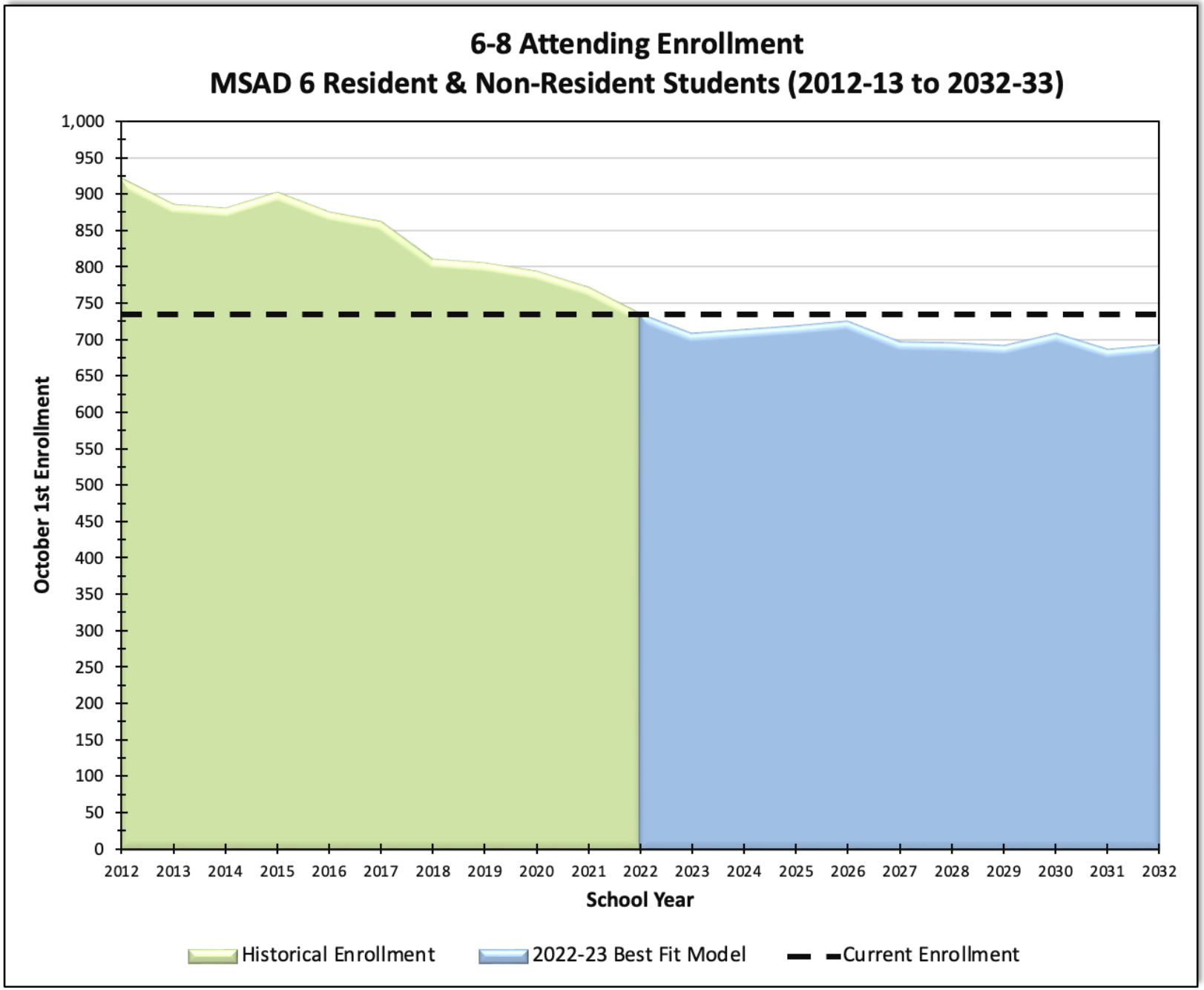
- *Enrollment of MSAD 6 students attending out of district schools ranged between 2 and 5 students through 2013-14, then increased to range between 12 and 21 students through 2022-23.*
- *Enrollment of non-resident students attending district schools ranged between zero and 7 students through 2022-23.*

2022-23 "Best Fit" Model:

Under the 2022-23 "Best Fit" Model, 6-8 resident attending enrollment decline from the current enrollment of 731 students to range between 703 and 720 students through 2026-27. Following 2026-27, enrollment is expected to decline further, but should remain stable, ranging between 681 and 703 students through 2032-33.

- *Another 13 to 14 MSAD 6 resident students in grades 6-8 are projected to attend non-district schools each year through 2032-33.*
- *Approximately 4 nonresident students are projected to attend grades 6-8 in MSAD 6 each year through 2032-33.*

Figure 4


6-8 Attending Enrollment
MSAD 6 Resident & Non-Resident Students (2012-13 to 2032-33)
October 1st Enrollment
1,000
950
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

C. Resident and Attending Enrollment Trends and Projections for Grades 9-12

Historical Trends:

Since 2012-13, resident attending enrollment in grades 9-12 fluctuated year-to-year, ranging between 1,150 and 1,184 students through 2014-15. Following 2014-15, enrollment declined to 1,013 students by 2022-23.

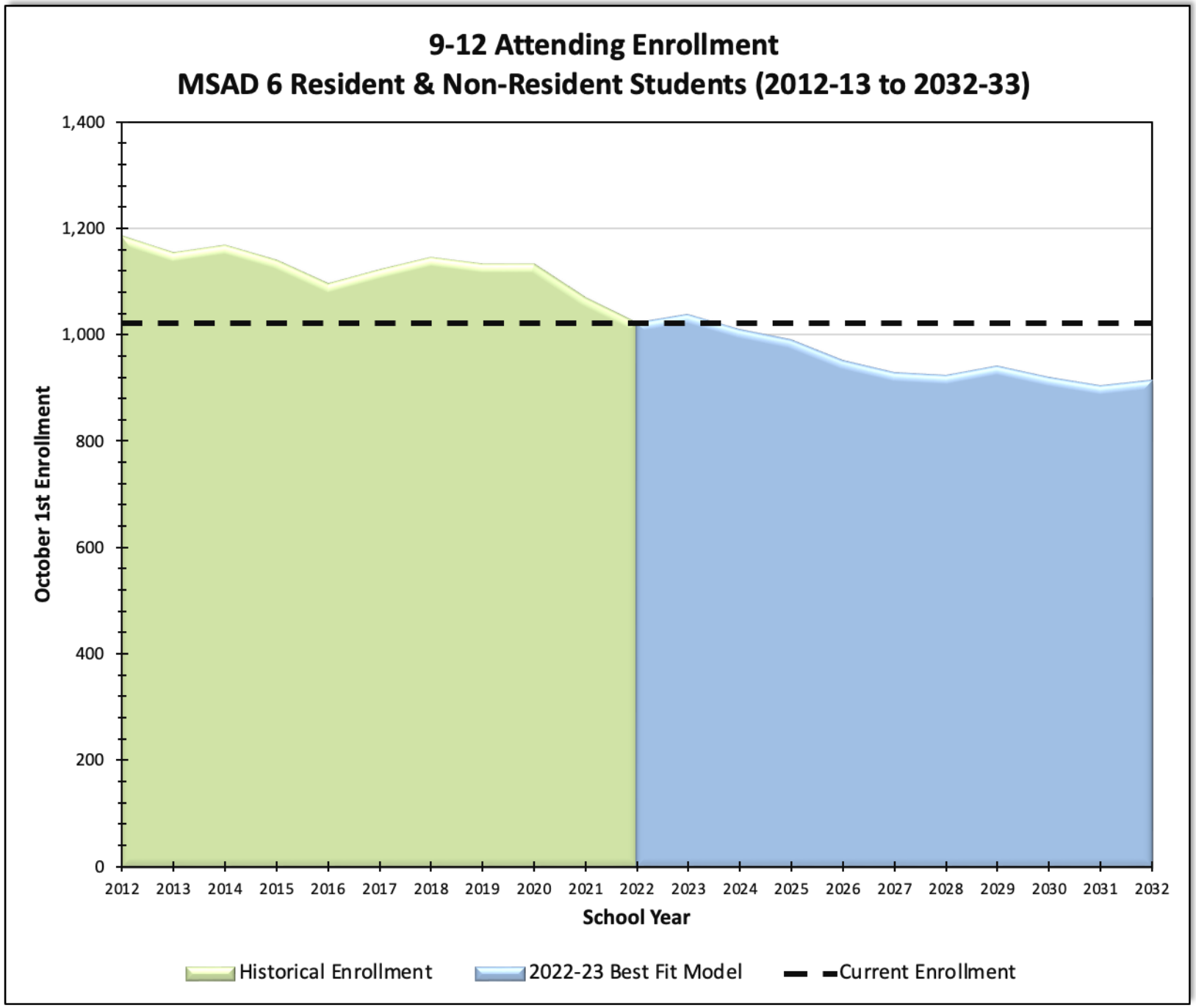
- *Enrollment of MSAD 6 students attending out of district schools ranged between 6 and 39 students through 2014-15. Following 2014-15, enrollment increased to range between 53 and 87 students through 2022-23.*
- *Enrollment of non-resident students attending district schools ranged between 1 and 11 students through 2022-23.*

2022-23 "Best Fit" Model:

Under the 2022-23 "Best Fit" Model, 9-12 resident attending enrollment will be similar to the current enrollment of 1,013 students to range between 1,003 and 1,029 students through 2024-25. Following 2024-25, enrollment is projected to decline reaching 944 students by 2026-27. Following 2026-27, enrollment is projected to decline further, but should remain stable, ranging between 896 and 934 students through 2032-33.

- *Another 49 to 56 MSAD 6 resident students in grades 9-12 are projected to attend non-district schools each year through 2032-33.*
- *Approximately 7 to 8 nonresident students are projected to attend grades 9-12 in MSAD 6 each year through 2032-33.*

Figure 5


9-12 Attending Enrollment
MSAD 6 Resident & Non-Resident Students (2012-13 to 2032-33)
October 1st Enrollment
1,400
1,200
1,000
800
600
400
200
0
2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

Appendix Table 6

Enrollment Trends & Projections - MSAD 6 Attending Enrollment (Resident & Non-Resident) - 2022-23 Best Fit Model

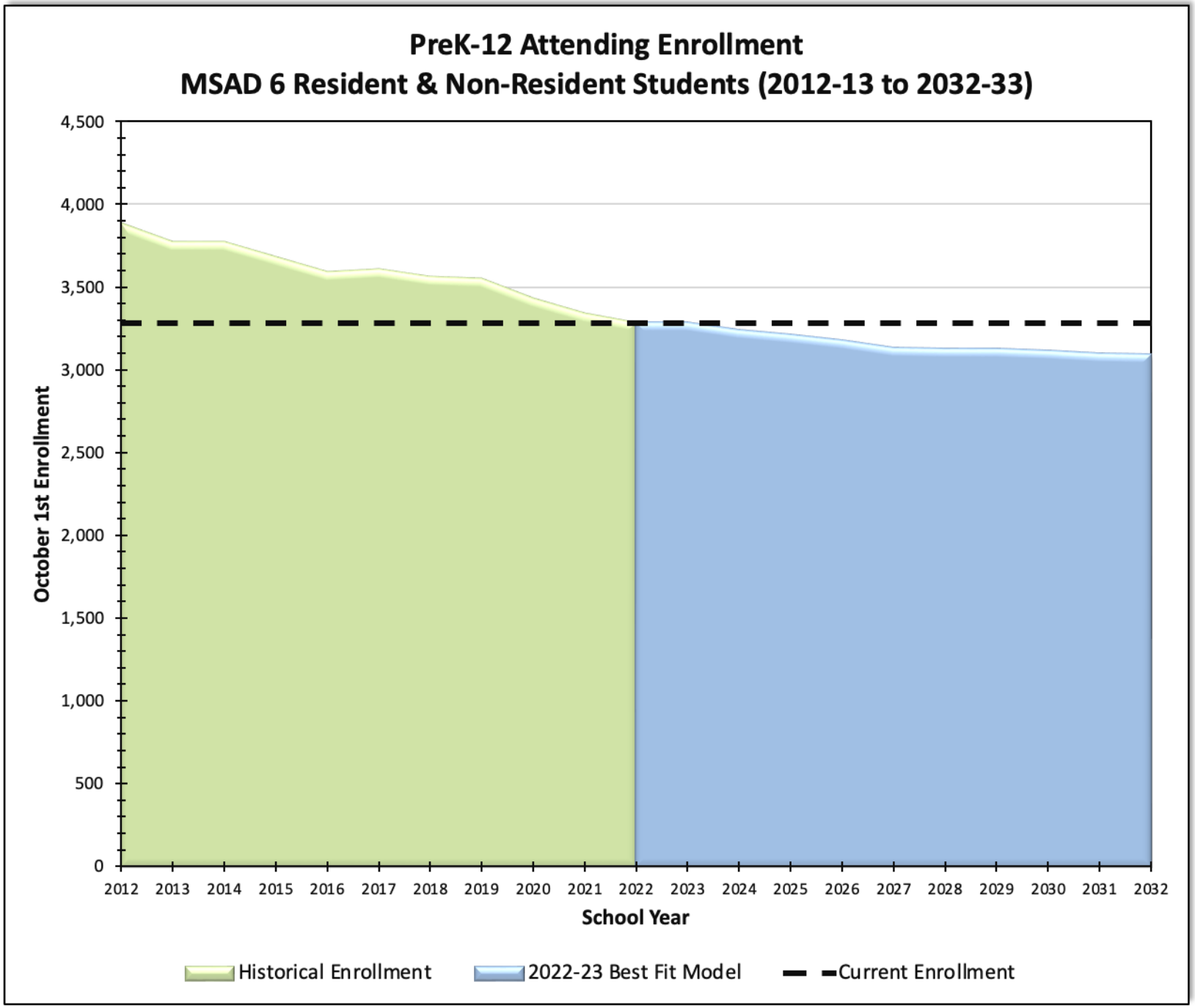
School Year	Resident Students Attending District Schools					NON-Resident Students at District Schools					Total ALL Attending Students				
	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12
Historical															
2012-13	1,773	920	2,693	1,184	**3,877**	2	1	3	1	**4**	1,775	921	2,696	1,185	**3,881**
2013-14	1,726	885	2,611	1,150	**3,761**	3	0	3	4	**7**	1,729	885	2,614	1,154	**3,768**
2014-15	1,713	879	2,592	1,159	**3,751**	5	1	6	10	**16**	1,718	880	2,598	1,169	**3,767**
2015-16	1,631	901	2,532	1,132	**3,664**	7	1	8	7	**15**	1,638	902	2,540	1,139	**3,679**
2016-17	1,608	870	2,478	1,090	**3,568**	11	4	15	5	**20**	1,619	874	2,493	1,095	**3,588**
2017-18	1,608	860	2,468	1,117	**3,585**	15	1	16	6	**22**	1,623	861	2,484	1,123	**3,607**
2018-19	1,594	804	2,398	1,136	**3,534**	13	5	18	10	**28**	1,607	809	2,416	1,146	**3,562**
2019-20	1,608	801	2,409	1,125	**3,534**	7	3	10	7	**17**	1,615	804	2,419	1,132	**3,551**
2020-21	1,488	788	2,276	1,126	**3,402**	17	5	22	6	**28**	1,505	793	2,298	1,132	**3,430**
2021-22	1,480	764	2,244	1,058	**3,302**	16	7	23	11	**34**	1,496	771	2,267	1,069	**3,336**
2022-23	1,510	731	2,241	1,013	**3,254**	17	4	21	8	**29**	1,527	735	2,262	1,021	**3,283**
Projected															
2023-24	1,521	703	2,224	1,029	**3,253**	14	4	18	8	**26**	1,535	707	2,242	1,037	**3,279**
2024-25	1,502	709	2,211	1,003	**3,214**	14	4	18	7	**25**	1,516	713	2,229	1,010	**3,239**
2025-26	1,486	714	2,200	983	**3,183**	14	4	18	7	**25**	1,500	718	2,218	990	**3,208**
2026-27	1,484	720	2,204	944	**3,148**	14	4	18	7	**25**	1,498	724	2,222	951	**3,173**
2027-28	1,492	692	2,184	921	**3,105**	14	4	18	7	**25**	1,506	696	2,202	928	**3,130**
2028-29	1,491	690	2,181	915	**3,096**	14	4	18	7	**25**	1,505	694	2,199	922	**3,121**
2029-30	1,477	686	2,163	934	**3,097**	14	4	18	7	**25**	1,491	690	2,181	941	**3,122**
2030-31	1,472	703	2,175	912	**3,087**	14	4	18	7	**25**	1,486	707	2,193	919	**3,112**
2031-32	1,494	681	2,175	896	**3,071**	14	4	18	7	**25**	1,508	685	2,193	903	**3,096**
2032-33	1,472	688	2,160	906	**3,066**	14	4	18	7	**25**	1,486	692	2,178	913	**3,091**

Notes: Based on October 1st Enrollment. Enrollment data contains all resident students attending district schools except 100% homeschooled students and includes any non-resident students attending district

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Figure 6


PreK-12 Attending Enrollment
MSAD 6 Resident & Non-Resident Students (2012-13 to 2032-33)
October 1st Enrollment
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

V. ATTENDING FIRST GRADE AND PREK-5 ENROLLMENT FOR BUXTON

A. Historical First Grade Enrollment

First grade enrollment in Buxton over the last ten years (2013-14 to 2022-23) fluctuated year-to-year while declining, on average. During this ten-year period, first grade enrollment ranged between 64 and 94 students, and averaged 78 students. The average first grade enrollment over the last five years (2018-19 to 2022-23), was 74 students, 9 students less than the average of the previous five-year period (2013-14 to 2017-18), or 83 students. Enrollment over the last three years (2020-21 to 2022-23) declined further, with first grade enrollment averaging 72 students. ***(See Table II-1-1 and Figure 8).***

B. Resident Births Influencing Historical Enrollment

Resident births in Buxton during the ten-year period (2006-07 to 2015-16) influencing first grade enrollment over the last ten years (2013-14 to 2022-23), fluctuated year-to-year, but remained stable, on average. The average number of births over the last five years of the period, (2011-12 to 2015-16), was 84 births, which was only 1 birth lower than the previous five-year period (2006-07 to 2010-11), which had an average of 85 births per year. In addition, over the last three years of the period (2013-14 to 2015-16) births continued to remain stable, averaging 86 births annually. ***(See Table II-1-1 and Figure 7).***

C. Resident Births Influencing Future Enrollment

Over the last ten-years, 2012-13 to 2021-22, births to residents of Buxton declined, to average 78 births annually, with births significantly fluctuating year-to-year, ranging between 59 and 90 births. The most recent five-year period (2017-18 to 2021-22) declined to average 76 births, and over the last three years (2019-20 to 2021-22) the average of births to residents continued to decline, to average 73 births. The most recent births were influenced by unusual birth years, 2019-20 which had 59 births, the lowest level seen, and was not repeated in 2020-21 where there was a high level of births where 88 births occurred. When looking at the most recent average of births compared to births between 2006-07 and 2010-11 (average of 85 births per year), Buxton experienced an average loss of about 11 births per year, and a loss of 11 births per year translates into a loss of half of a first-grade class size per year. ***(See Table II-1-1 and Figure 7).***

The "best fit" projections used the 3-year average, or the 2022-23 "Best Fit" Model for Buxton assumes resident births would average about 73 births annually.

D. Net Preschool Migration Trends

In the first five years of the last decade, (2013-14 to 2017-18), Buxton experienced an out-migration of preschool-aged children, with an average migration ratio of 0.986, or first grade experienced an average decline of about 1.4% from the number of births six years prior. In the past five years, (2018-19 to 2022-23), Buxton experienced a higher level of preschool out-migration, with an average migration ratio of 0.885, or an average decline of 11.5%. Additionally, over the last three years, (2020-21 to 2022-23), preschool out-migration continued, it was higher than the five-year period, with an average ratio of 0.840, or an average 16% loss from births. **Overall, when looking at average migration trends the average preschool out-migration placed downward pressure on first grade class sizes.** ***(See Table II-1-1).***

NOTE: Taken together, a decline in average resident births combined with an average preschool out-migration resulted in first grade class sizes that, on average, declined over the last five years.

E. Projections of Entering First Grade Class Sizes

The 2022-23 "Best Fit" Model is based on 73 average births, and on a continuation of preschool out-migration similar to the level occurring over the last 3 years, except for the 2023-24 first grade which was based on the 2022-23 Kindergarten. ***(See Table II-1-1 and Figure 8).***

- Under the 2022-23 "Best Fit" Model, first grade enrollment is projected to experience yearly swings corresponding with swings in resident births. Enrollment is projected to range between 50 and 74 students, and average 63 students annually through 2032-33.

F. Resident and Attending Enrollment Trends and Projections for Grades PreK-5

Historical Trends:

Since 2012-13, Buxton resident attending enrollment in grades PreK-5 declined from 579 students in 2012-13 to reach 482 students by 2019-20. Following 2019-20 enrollment declined further, but remained stable, ranging between 443 and 453 students through 2022-23.

- *Enrollment of Buxton students attending out of district schools ranged between 1 and 8 students through 2022-23.*

2022-23 "Best Fit" Model:

Under the 2022-23 "Best Fit" Model, PreK-5 resident attending enrollment will decline from the current enrollment of 453 students to reach 403 students by 2027-28. Following 2027-28, enrollment is projected to decline further, but should level off to range between 386 and 399 students through 2032-33.

- *Another 4 Buxton resident students in grades PreK-5 are projected to attend non-district schools each year through 2032-33.*

Table II-1-1 - Relationship of Entering First Grade Class Size to Resident Births
Town of Buxton - MSAD 6 - Resident Attending Enrollment

Birth Year (Oct. 15 - Oct. 14)	# of Resident Births	First Grade Year	Best Fit Model		
			Enrollment	Ratio 1st/Births	+/-%
2006-07	96	2013-14	82	0.854	-14.6%
2007-08	89	2014-15	88	0.989	-1.1%
2008-09	92	2015-16	94	1.022	2.2%
2009-10	79	2016-17	71	0.899	-10.1%
2010-11	67	2017-18	78	1.164	16.4%
2011-12	102	2018-19	86	0.843	-15.7%
2012-13	62	2019-20	66	1.065	6.5%
2013-14	79	2020-21	64	0.810	-19.0%
2014-15	90	2021-22	80	0.889	-11.1%
2015-16	89	2022-23*	73	0.820	-18.0%
2016-17	83	2023-24	68	0.819	-18.1%
2017-18	86	2024-25	72	0.840	-16.0%
2018-19	74	2025-26	62	0.840	-16.0%
2019-20	59	2026-27	50	0.840	-16.0%
2020-21	88	2027-28	74	0.840	-16.0%
2021-22*	73	2028-29	61	0.840	-16.0%
2022-23 est	73	2029-30	62	0.840	-16.0%
2023-24 est	73	2030-31	62	0.840	-16.0%
2024-25 est	73	2031-32	62	0.840	-16.0%
2025-26 est	73	2032-33	62	0.840	-16.0%
10-Yr Avg. (2006-07 to 2015-16)	85	**10-Yr Avg. (2013-14 to 2022-23)**	78	0.935	-6.5%
5-Yr Avg. (2006-07 to 2010-11)	85	**First 5-Yr Avg. (2013-14 to 2017-18)**	83	0.986	-1.4%
5-Yr Avg. Births (2011-12 to 2015-16)	84	**Most Recent 5-Yr Avg. (2018-19 to 2022-23)**	74	0.885	-11.5%
Births 3-Yr Avg. (2013-14 to 2015-16)	86	**Most Recent 3-Yr Avg. (2020-21 to 2022-23)**	72	0.840	-16.0%
Most Recent 10-Yr Avg. (2012-13 to 2021-22)	78	**Projected 10-Yr Avg. (2023-24 to 2032-33)**	**63**	0.838	-16.2%
Most Recent 5-Yr Avg. (2017-18 to 2021-22)	76				
Most Recent 3-Yr Avg. (2019-20 to 2021-22)	73				

Births: Maine Center for Disease Control and Prevention, Data, Research and Vital Statistics. 2022 births are preliminary and provisional; *Future births between 2022-23 and 2025-26 were based on 3-year average of births between 2019-20 and 2021-22. **Note:** Enrollment includes all resident students attending district schools. First to birth ratios shown here are based on the rounded first grade projection from the Entering Class to Births Ratio Worksheet. **Historical Enrollment Source:** 2012-2017 from MDOE, 2018-2022 from the district. All else calculated by Wandell Consulting.

Figure 7

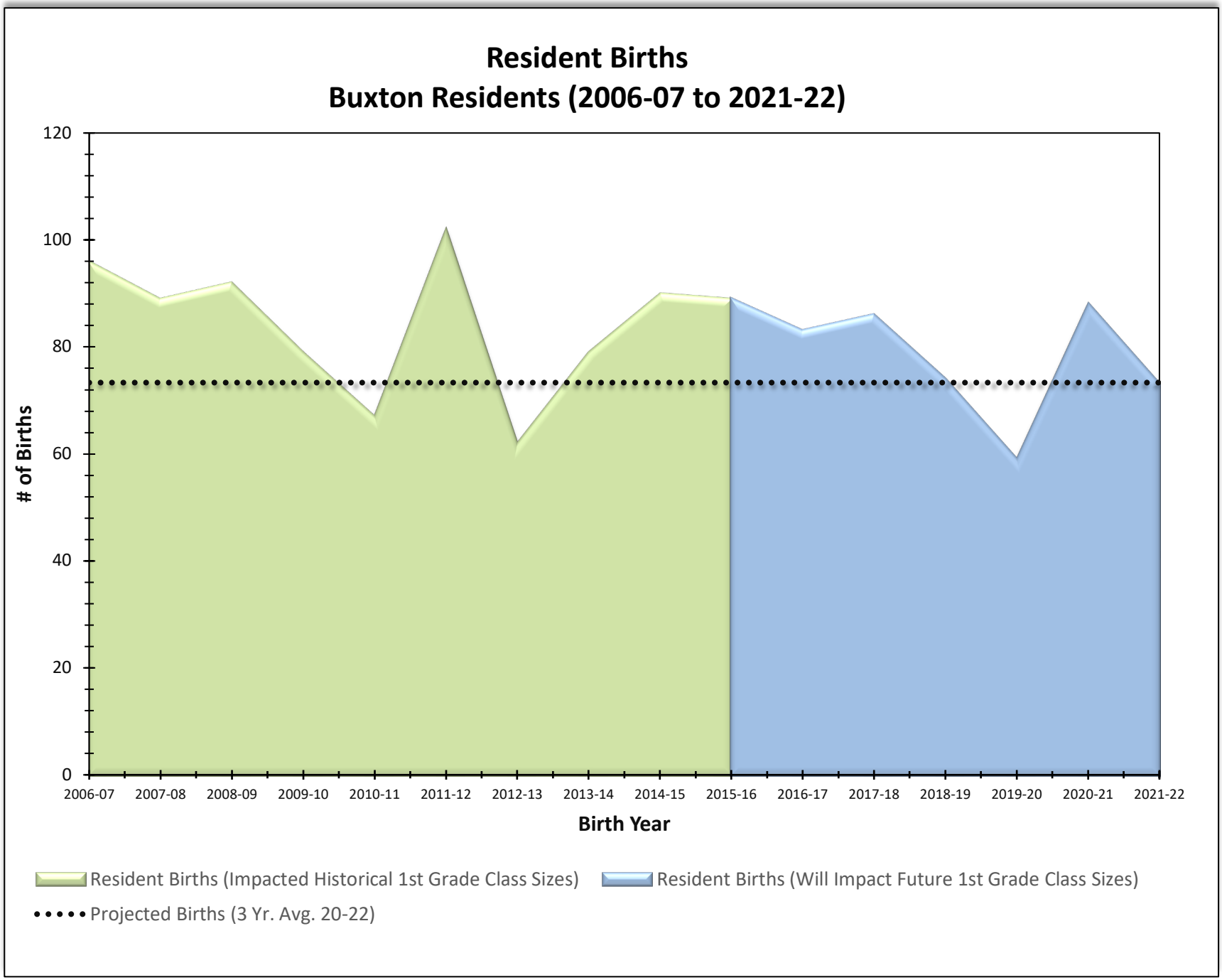
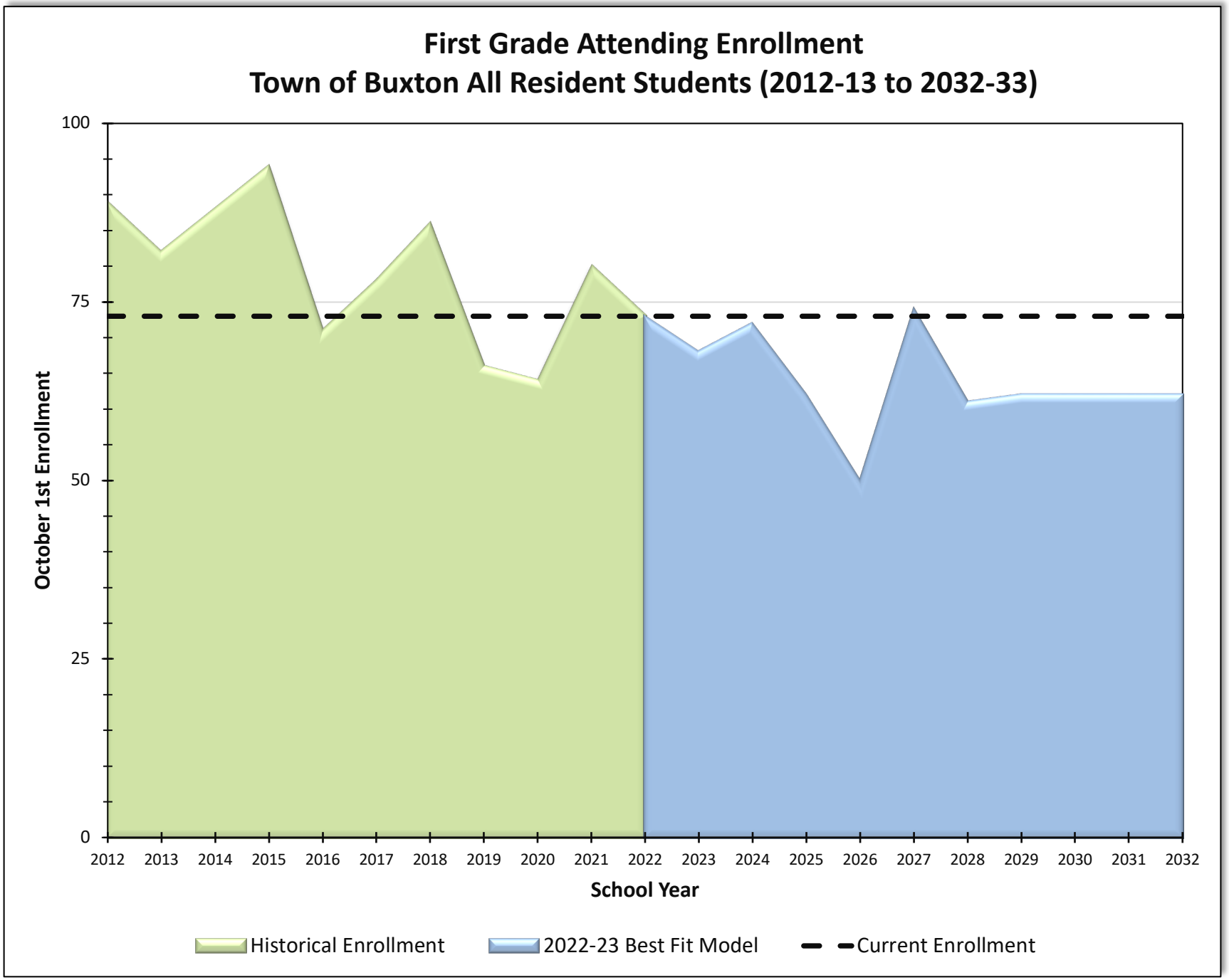

Resident Births
Buxton Residents (2006-07 to 2021-22)
120
100
80
60
40
20
0
# of Births
2006-07
2007-08
2008-09
2009-10
2010-11
2011-12
2012-13
2013-14
2014-15
2015-16
2016-17
2017-18
2018-19
2019-20
2020-21
2021-22
Birth Year
Resident Births (Impacted Historical 1st Grade Class Sizes)
Resident Births (Will Impact Future 1st Grade Class Sizes)
Projected Births (3 Yr. Avg. 20-22)

Figure 8


First Grade Attending Enrollment
Town of Buxton All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
100
75
50
25
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

Appendix Table 4.1

Enrollment Trends & Projections - Town of Buxton - MSAD 6 Resident Enrollment - 2022-23 Best Fit Model

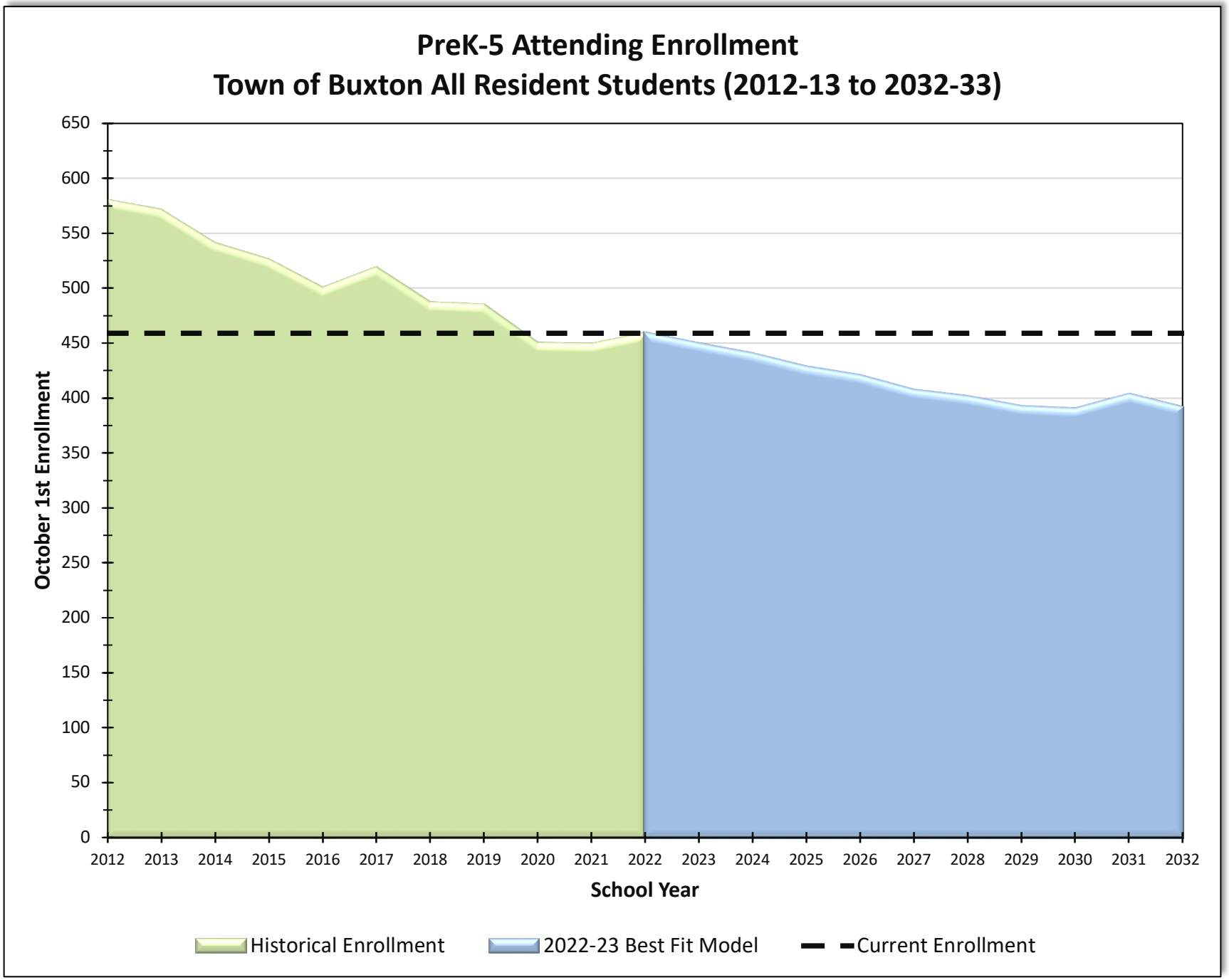
School Year	Resident Students Attending District Schools					Resident Students at NON-District Schools					Total ALL Buxton Students				
	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12
Historical															
2012-13	579	280	859	358	**1,217**	1	1	2	0	**2**	580	281	861	358	**1,219**
2013-14	569	287	856	346	**1,202**	2	1	3	3	**6**	571	288	859	349	**1,208**
2014-15	539	284	823	356	**1,179**	2	3	5	9	**14**	541	287	828	365	**1,193**
2015-16	521	296	817	339	**1,156**	5	9	14	16	**30**	526	305	831	355	**1,186**
2016-17	496	290	786	343	**1,129**	4	5	9	22	**31**	500	295	795	365	**1,160**
2017-18	511	293	804	356	**1,160**	8	4	12	20	**32**	519	297	816	376	**1,192**
2018-19	479	270	749	376	**1,125**	8	9	17	30	**47**	487	279	766	406	**1,172**
2019-20	482	245	727	376	**1,103**	3	10	13	35	**48**	485	255	740	411	**1,151**
2020-21	448	243	691	354	**1,045**	2	12	14	24	**38**	450	255	705	378	**1,083**
2021-22	443	234	677	338	**1,015**	6	3	9	18	**27**	449	237	686	356	**1,042**
2022-23	453	221	674	311	**985**	6	6	12	20	**32**	459	227	686	331	**1,017**
Projected															
2023-24	445	206	651	304	**955**	4	7	11	21	**32**	449	213	662	325	**987**
2024-25	436	196	632	287	**919**	4	6	10	20	**30**	440	202	642	307	**949**
2025-26	424	197	621	281	**902**	4	6	10	20	**30**	428	203	631	301	**932**
2026-27	416	196	612	272	**884**	4	6	10	19	**29**	420	202	622	291	**913**
2027-28	403	201	604	245	**849**	4	7	11	17	**28**	407	208	615	262	**877**
2028-29	397	202	599	238	**837**	4	7	11	17	**28**	401	209	610	255	**865**
2029-30	388	194	582	250	**832**	4	6	10	17	**27**	392	200	592	267	**859**
2030-31	386	184	570	242	**812**	4	6	10	17	**27**	390	190	580	259	**839**
2031-32	399	167	566	243	**809**	4	5	9	17	**26**	403	172	575	260	**835**
2032-33	387	170	557	247	**804**	4	6	10	17	**27**	391	176	567	264	**831**

Notes: October 1st Enrollment data. Enrollment data contains all resident students but excludes 100% homeschooled students.

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Figure 9


PreK-5 Attending Enrollment
Town of Buxton All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
650
600
550
500
450
400
350
300
250
200
150
100
50
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

VI. ATTENDING FIRST GRADE AND PREK-5 ENROLLMENT FOR HOLLIS

A. Historical First Grade Enrollment

First grade enrollment in Hollis over the last ten years (2013-14 to 2022-23) fluctuated year-to-year while declining, on average. During this ten-year period, first grade enrollment ranged between 39 and 53 students, and averaged 46 students. The average first grade enrollment over the last five years (2018-19 to 2022-23), was 43 students, 5 students less than the average of the previous five-year period (2013-14 to 2017-18), or 48 students. Enrollment over the last three years (2020-21 to 2022-23) remained stable, with first grade enrollment averaging 42 students. ***(See Table II-1-2 and Figure 11).***

B. Resident Births Influencing Historical Enrollment

Resident births in Hollis during the ten-year period (2006-07 to 2015-16) influencing first grade enrollment over the last ten years (2013-14 to 2022-23), fluctuated year-to-year, declining, on average. The average number of births over the last five years of the period, (2011-12 to 2015-16), was 45 births, which was only 7 birth lower than the previous five-year period (2006-07 to 2010-11), which had an average of 52 births per year. In addition, over the last three years of the period (2013-14 to 2015-16) births continued the decline, averaging 43 births annually. ***(See Table II-1-2 and Figure 10).***

C. Resident Births Influencing Future Enrollment

Over the last ten-years, 2012-13 to 2021-22, births to residents of Hollis increased, to average 47 births annually, with births significantly fluctuating year-to-year, ranging between 33 and 53 births. The most recent five-year period (2017-18 to 2021-22) increased to average 49 births, and over the last three years (2019-20 to 2021-22) the average of births to residents averaged 47 births. When looking at the most recent average of births compared to births between 2006-07 and 2010-11 (average of 52 births per year), Hollis experienced an average loss of about 4 or 5 births per year. ***(See Table II-1-2 and Figure 10).***

The "best fit" projections used the 5-year average, or the 2022-23 "Best Fit" Model for Hollis assumes resident births would average about 49 births annually.

D. Net Preschool Migration Trends

In the first five years of the last decade, (2013-14 to 2017-18), Hollis experienced an out-migration of preschool-aged children, with an average migration ratio of 0.936, or first grade experienced an average decline of about 6.4% from the number of births six years prior. In the past five years, (2018-19 to 2022-23), Hollis experienced almost no preschool out-migration, with an average migration ratio of 0.993, or an average decline of 0.7%. Additionally, over the last three years, (2020-21 to 2022-23), a slight preschool in-migration occurred, with an average ratio of 1.007, or an average 0.7% gain from births. However, when looking at the migration trends on the year-to-year basis, preschool migration is not quite so stable, with wide swings from an in-migration of 20.9% to an out-migration of 2.4%, then 16.7% back to an in-migration of 21.2%. The large fluctuations are common when looking at smaller population sizes, and it becomes important to note that projections are more difficult due to the nature of these year-to-year variances. ***(See Table II-1-2).***

E. Projections of Entering First Grade Class Sizes

The 2022-23 "Best Fit" Model is based on 49 average births, and on a continuation of preschool migration similar to the level occurring over the last 3 years. ***(See Table II-1-2 and Figure 11).***

- Under the 2022-23 "Best Fit" Model, first grade enrollment is projected to experience yearly swings corresponding with swings in resident births. Enrollment is projected to range between 45 and 53 students, and average 50 students annually through 2032-33.

F. Resident and Attending Enrollment Trends and Projections for Grades PreK-5

Historical Trends:

Since 2012-13, Hollis's resident attending enrollment in grades PreK-5 fluctuated year-to-year, ranging between 308 and 344 students through 2015-16. Following 2015-16 enrollment declined to reach 259 students in 2020-21 before increasing to 278 students by 2022-23.

- *Enrollment of Hollis students attending out of district schools ranged between zero and 5 students through 2022-23.*

2022-23 "Best Fit" Model:

Under the 2022-23 "Best Fit" Model, PreK-5 resident attending enrollment will increase from the current enrollment of 278 students to reach 300 students by 2026-27. Following 2026-27, enrollment is projected to increase further, but should level off to range between 301 and 308 students through 2032-33.

- *Another 3 Hollis resident students in grades PreK-5 are projected to attend non-district schools each year through 2032-33.*

Table II-1-2 - Relationship of Entering First Grade Class Size to Resident Births
Town of Hollis - MSAD 6 - Resident Attending Enrollment

Birth Year (Oct. 15 - Oct. 14)	# of Resident Births	First Grade Year	Best Fit Model		
			Enrollment	Ratio 1st/Births	+/-%
2006-07	59	2013-14	53	0.898	-10.2%
2007-08	45	2014-15	46	1.022	2.2%
2008-09	60	2015-16	43	0.717	-28.3%
2009-10	45	2016-17	46	1.022	2.2%
2010-11	50	2017-18	51	1.020	2.0%
2011-12	53	2018-19	39	0.736	-26.4%
2012-13	43	2019-20	52	1.209	20.9%
2013-14	42	2020-21	41	0.976	-2.4%
2014-15	54	2021-22	45	0.833	-16.7%
2015-16	33	2022-23*	40	1.212	21.2%
2016-17	51	2023-24	51	1.007	0.7%
2017-18	50	2024-25	50	1.007	0.7%
2018-19	53	2025-26	53	1.007	0.7%
2019-20	49	2026-27	49	1.007	0.7%
2020-21	45	2027-28	45	1.007	0.7%
2021-22*	48	2028-29	48	1.007	0.7%
2022-23 est	49	2029-30	49	1.007	0.7%
2023-24 est	49	2030-31	49	1.007	0.7%
2024-25 est	49	2031-32	49	1.007	0.7%
2025-26 est	49	2032-33	49	1.007	0.7%
10-Yr Avg. (2006-07 to 2015-16)	48	**10-Yr Avg. (2013-14 to 2022-23)**	46	0.965	-3.5%
5-Yr Avg. (2006-07 to 2010-11)	52	**First 5-Yr Avg. (2013-14 to 2017-18)**	48	0.936	-6.4%
5-Yr Avg. Births (2011-12 to 2015-16)	45	**Most Recent 5-Yr Avg. (2018-19 to 2022-23)**	43	0.993	-0.7%
Births 3-Yr Avg. (2013-14 to 2015-16)	43	**Most Recent 3-Yr Avg. (2020-21 to 2022-23)**	42	1.007	0.7%
Most Recent 10-Yr Avg. (2012-13 to 2021-22)	47	**Projected 10-Yr Avg. (2023-24 to 2032-33)**	**50**	1.007	0.7%
Most Recent 5-Yr Avg. (2017-18 to 2021-22)	49				
Most Recent 3-Yr Avg. (2019-20 to 2021-22)	47				

Births: Maine Center for Disease Control and Prevention, Data, Research and Vital Statistics. 2022 births are preliminary and provisional; *Future births between 2022-23 and 2025-26 were based on the 5-year average of births between 2017-18 and 2021-22. **Note:** Enrollment includes all resident students attending district schools. First to birth ratios shown here are based on the rounded first grade projection from the Entering Class to Births Ratio Worksheet. **Historical Enrollment Source:** 2012-2017 from MDOE, 2018-2022 from the district. All else calculated by Wandell Consulting.

Figure 10

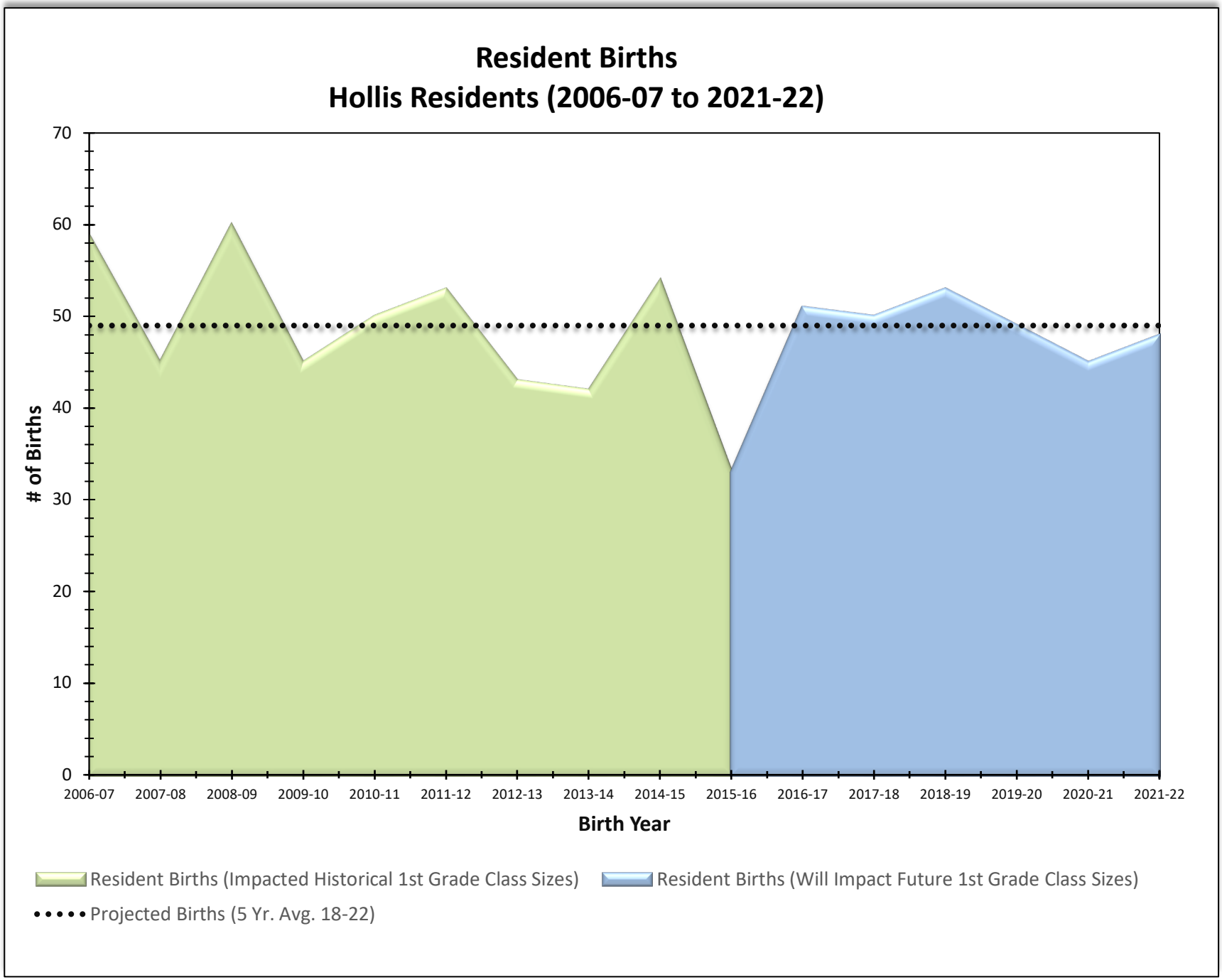
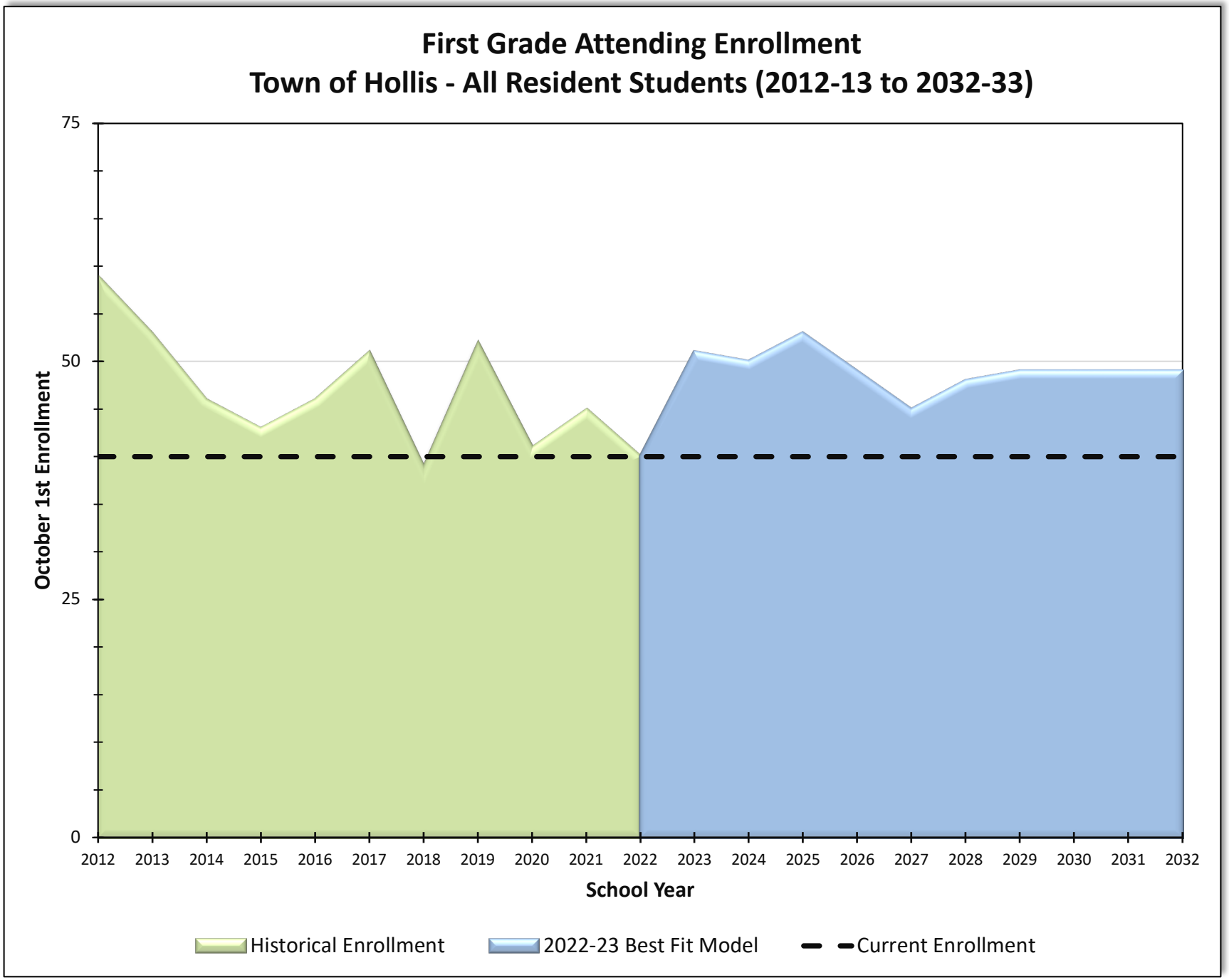

Resident Births
Hollis Residents (2006-07 to 2021-22)
70
60
50
40
30
20
10
0
# of Births
2006-07
2007-08
2008-09
2009-10
2010-11
2011-12
2012-13
2013-14
2014-15
2015-16
2016-17
2017-18
2018-19
2019-20
2020-21
2021-22
Birth Year
Resident Births (Impacted Historical 1st Grade Class Sizes)
Resident Births (Will Impact Future 1st Grade Class Sizes)
Projected Births (5 Yr. Avg. 18-22)

Figure 11


First Grade Attending Enrollment
Town of Hollis - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
75
50
25
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

Appendix Table 4.2

Enrollment Trends & Projections - Town of Hollis - MSAD 6 Resident Enrollment - 2022-23 Best Fit Model

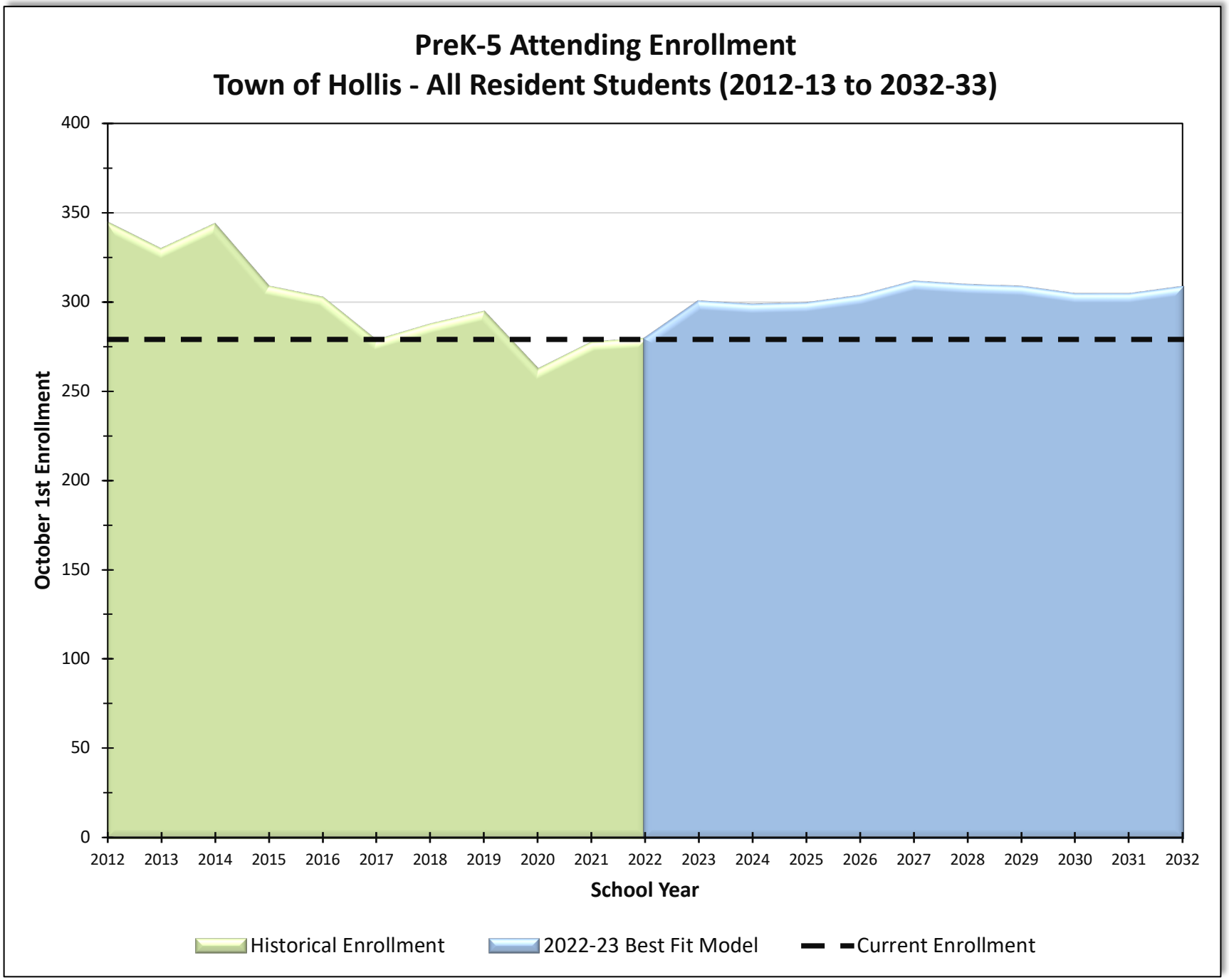
School Year	Resident Students Attending District Schools					Resident Students at NON-District Schools					Total ALL Hollis Students				
	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12
Historical															
2012-13	344	147	491	177	**668**	0	0	0	4	**4**	344	147	491	181	**672**
2013-14	328	156	484	169	**653**	1	0	1	3	**4**	329	156	485	172	**657**
2014-15	340	166	506	179	**685**	3	1	4	9	**13**	343	167	510	188	**698**
2015-16	308	186	494	188	**682**	0	0	0	8	**8**	308	186	494	196	**690**
2016-17	300	185	485	185	**670**	2	2	4	6	**10**	302	187	489	191	**680**
2017-18	276	193	469	214	**683**	2	0	2	12	**14**	278	193	471	226	**697**
2018-19	282	171	453	234	**687**	5	4	9	15	**24**	287	175	462	249	**711**
2019-20	290	170	460	241	**701**	4	3	7	10	**17**	294	173	467	251	**718**
2020-21	259	144	403	243	**646**	3	6	9	15	**24**	262	150	412	258	**670**
2021-22	275	123	398	218	**616**	2	2	4	17	**21**	277	125	402	235	**637**
2022-23	278	122	400	208	**608**	1	4	5	12	**17**	279	126	405	220	**625**
Projected															
2023-24	297	122	419	193	**612**	3	3	6	13	**19**	300	125	425	206	**631**
2024-25	295	137	432	169	**601**	3	4	7	11	**18**	298	141	439	180	**619**
2025-26	296	132	428	161	**589**	3	4	7	11	**18**	299	136	435	172	**607**
2026-27	300	135	435	152	**587**	3	4	7	10	**17**	303	139	442	162	**604**
2027-28	308	123	431	164	**595**	3	3	6	11	**17**	311	126	437	175	**612**
2028-29	306	126	432	173	**605**	3	3	6	11	**17**	309	129	438	184	**622**
2029-30	305	134	439	164	**603**	3	4	7	11	**18**	308	138	446	175	**621**
2030-31	301	147	448	163	**611**	3	4	7	11	**18**	304	151	455	174	**629**
2031-32	301	144	445	164	**609**	3	4	7	11	**18**	304	148	452	175	**627**
2032-33	305	140	445	165	**610**	3	4	7	11	**18**	308	144	452	176	**628**

Notes: October 1st Enrollment data. Enrollment data contains all resident students but excludes 100% homeschooled students.

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Figure 12


PreK-5 Attending Enrollment
Town of Hollis - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
400
350
300
250
200
150
100
50
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

VII. ATTENDING FIRST GRADE AND PREK-5 ENROLLMENT FOR LIMINGTON

A. Historical First Grade Enrollment

First grade enrollment in Limington over the last ten years (2013-14 to 2022-23) fluctuated year-to-year while increasing, on average. During this ten-year period, first grade enrollment ranged between 34 and 52 students, and averaged 42 students. The average first grade enrollment over the last five years (2018-19 to 2022-23), was 44 students, or 4 students more than the average of the previous five-year period (2013-14 to 2017-18), or 40 students. However, enrollment over the last three years (2020-21 to 2022-23) declined, with first grade enrollment averaging 40 students. ***(See Table II-1-3 and Figure 14).***

B. Resident Births Influencing Historical Enrollment

Resident births in Limington during the ten-year period (2006-07 to 2015-16) influencing first grade enrollment over the last ten years (2013-14 to 2022-23), fluctuated year-to-year, declining, on average. The average number of births over the last five years of the period, (2011-12 to 2015-16), was 48 births, which was only 1 birth higher than the previous five-year period (2006-07 to 2010-11), which had an average of 47 births per year. however, over the last three years of the period (2013-14 to 2015-16) births declined slightly, averaging 45 births annually. ***(See Table II-1-3 and Figure 13).***

C. Resident Births Influencing Future Enrollment

Over the last ten-years, 2012-13 to 2021-22, births to residents of Limington increased, to average 43 births annually, with births significantly fluctuating year-to-year, ranging between 29 and 56 births. The most recent five-year period (2017-18 to 2021-22) remained stable to average 42 births, and over the last three years (2019-20 to 2021-22) the average of births to residents declined to 37 births. When looking at the most recent average of births compared to births between 2006-07 and 2010-11 (average of 47 births per year), Limington experienced an average loss of about 10 births per year. ***(See Table II-1-3 and Figure 13).***

The "best fit" projections used the 3-year average, or the 2022-23 "Best Fit" Model for Limington assumes resident births would average about 37 births annually.

D. Net Preschool Migration Trends

In the first five years of the last decade, (2013-14 to 2017-18), Limington experienced an out-migration of preschool-aged children, with an average migration ratio of 0.870, or first grade experienced an average decline of about 13% from the number of births six years prior. In the past five years, (2018-19 to 2022-23), Limington experienced less preschool out-migration, with an average migration ratio of 0.925, or an average decline of 7.5%. However, over the last three years, (2020-21 to 2022-23), preschool out-migration increased again, with an average ratio of 0.885, or an average loss of 11.5% from births. When looking at the migration trends on the year-to-year basis, preschool migration experienced wide swings from an out-migration of 7.1% to no migration, to an out-migration of 20.8%, then 13.6. The large fluctuations are common when looking at smaller population sizes, and it becomes important to note that projections are more difficult due to the nature of these year-to-year variances. ***(See Table II-1-3).***

E. Projections of Entering First Grade Class Sizes

The 2022-23 "Best Fit" Model is based on 37 average births, and on a continuation of preschool out-migration similar to the level occurring over the last 6 years, except for the 2023-24 first grade which was based on the 2022-23 Kindergarten class size. ***(See Table II-1-3 and Figure 14).***

- Under the 2022-23 "Best Fit" Model, first grade enrollment is projected to experience yearly swings corresponding with swings in resident births. Enrollment is projected to range between 31 and 46 students, and average 37 students annually through 2032-33.

F. Resident and Attending Enrollment Trends and Projections for Grades PreK-5

Historical Trends:

Since 2012-13, Limington resident attending enrollment in grades PreK-5 fluctuated year-to-year, ranging between 244 and 254 students through 2016-17. Following 2016-17 enrollment increased to range between 255 and 276 students through 2022-23.

- *Enrollment of Limington students attending out of district schools ranged between zero and 4 students through 2022-23.*

2022-23 "Best Fit" Model:

Under the 2022-23 "Best Fit" Model, PreK-5 resident attending enrollment will decline from the current enrollment of 271 students to reach 214 students by 2032-33.

- *Another 1 or 2 Limington resident students in grades PreK-5 are projected to attend non-district schools each year through 2032-33.*

Table II-1-3 - Relationship of Entering First Grade Class Size to Resident Births
Town of Limington - MSAD 6 - Resident Attending Enrollment

Birth Year (Oct. 15 - Oct. 14)	# of Resident Births	First Grade Year	Best Fit Model		
			Enrollment	Ratio 1st/Births	+/-%
2006-07	61	2013-14	43	0.705	-29.5%
2007-08	42	2014-15	43	1.024	2.4%
2008-09	43	2015-16	41	0.953	-4.7%
2009-10	49	2016-17	40	0.816	-18.4%
2010-11	40	2017-18	34	0.850	-15.0%
2011-12	46	2018-19	48	1.043	4.3%
2012-13	56	2019-20	52	0.929	-7.1%
2013-14	44	2020-21	44	1.000	0.0%
2014-15	48	2021-22	38	0.792	-20.8%
2015-16	44	2022-23*	38	0.864	-13.6%
2016-17	29	2023-24	40	1.379	37.9%
2017-18	48	2024-25	44	0.913	-8.7%
2018-19	50	2025-26	46	0.913	-8.7%
2019-20	35	2026-27	32	0.913	-8.7%
2020-21	43	2027-28	39	0.913	-8.7%
2021-22*	34	2028-29	31	0.913	-8.7%
2022-23 est	37	2029-30	34	0.913	-8.7%
2023-24 est	37	2030-31	34	0.913	-8.7%
2024-25 est	37	2031-32	34	0.913	-8.7%
2025-26 est	37	2032-33	34	0.913	-8.7%
10-Yr Avg. (2006-07 to 2015-16)	47	**10-Yr Avg. (2013-14 to 2022-23)**	42	0.898	-10.2%
5-Yr Avg. (2006-07 to 2010-11)	47	**First 5-Yr Avg. (2013-14 to 2017-18)**	40	0.870	-13.0%
5-Yr Avg. Births (2011-12 to 2015-16)	48	**Most Recent 5-Yr Avg. (2018-19 to 2022-23)**	44	0.925	-7.5%
Births 3-Yr Avg. (2013-14 to 2015-16)	45	**Most Recent 3-Yr Avg. (2020-21 to 2022-23)**	40	0.885	-11.5%
Most Recent 10-Yr Avg. (2012-13 to 2021-22)	43	**Projected 10-Yr Avg. (2023-24 to 2032-33)**	**37**	0.960	-4.0%
Most Recent 5-Yr Avg. (2017-18 to 2021-22)	42				
Most Recent 3-Yr Avg. (2019-20 to 2021-22)	37				

Births: Maine Center for Disease Control and Prevention, Data, Research and Vital Statistics. 2022 births are preliminary and provisional; *Future births between 2022-23 and 2025-26 were based on the 3-year average of births between 2019-20 to 2021-22. **Note:** Enrollment includes all resident students attending district schools. First to birth ratios shown here are based on the rounded first grade projection from the Entering Class to Births Ratio Worksheet. **Historical Enrollment Source:** 2012-2017 from MDOE, 2018-2022 from the district. All else calculated by Wandell Consulting.

Figure 13

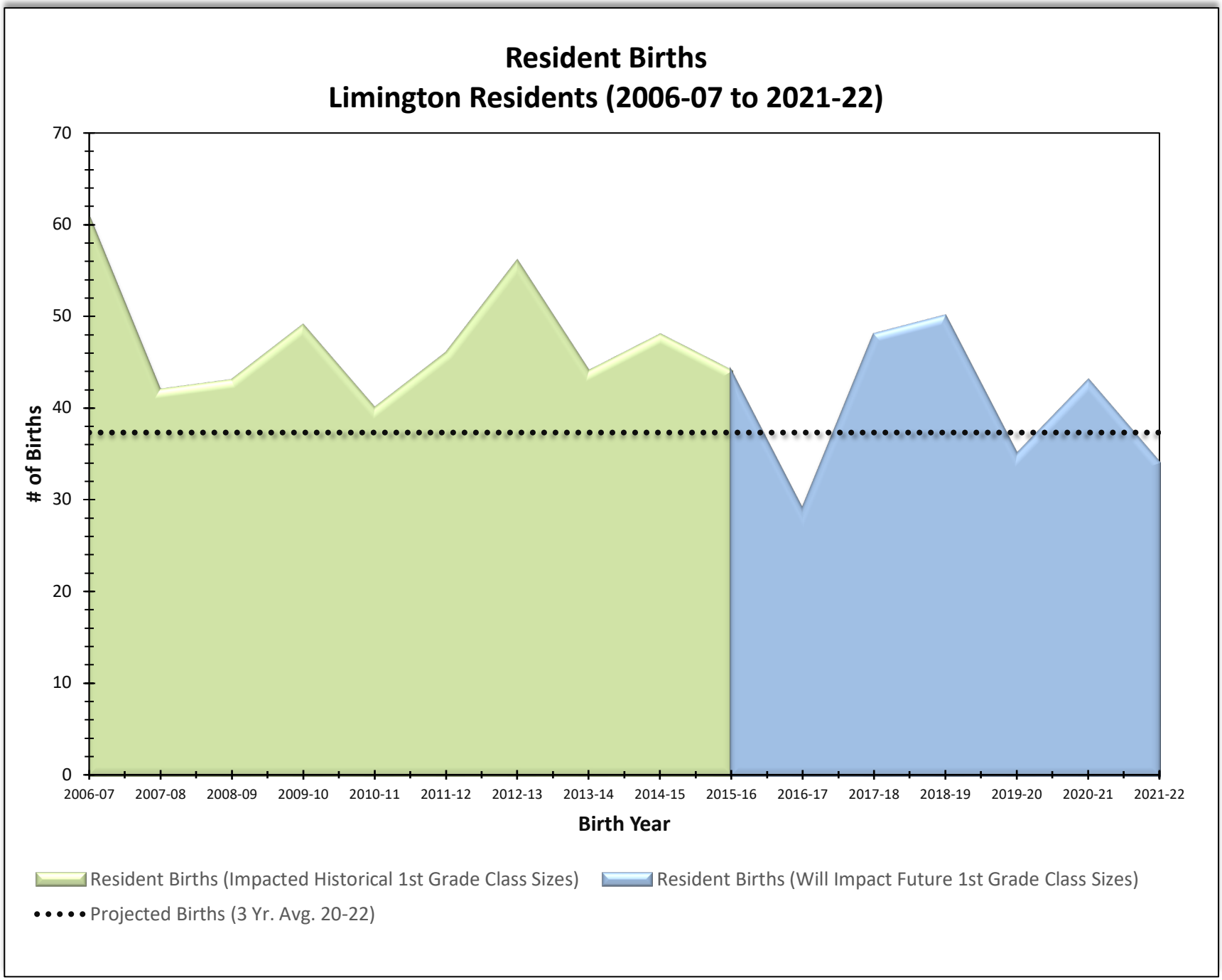
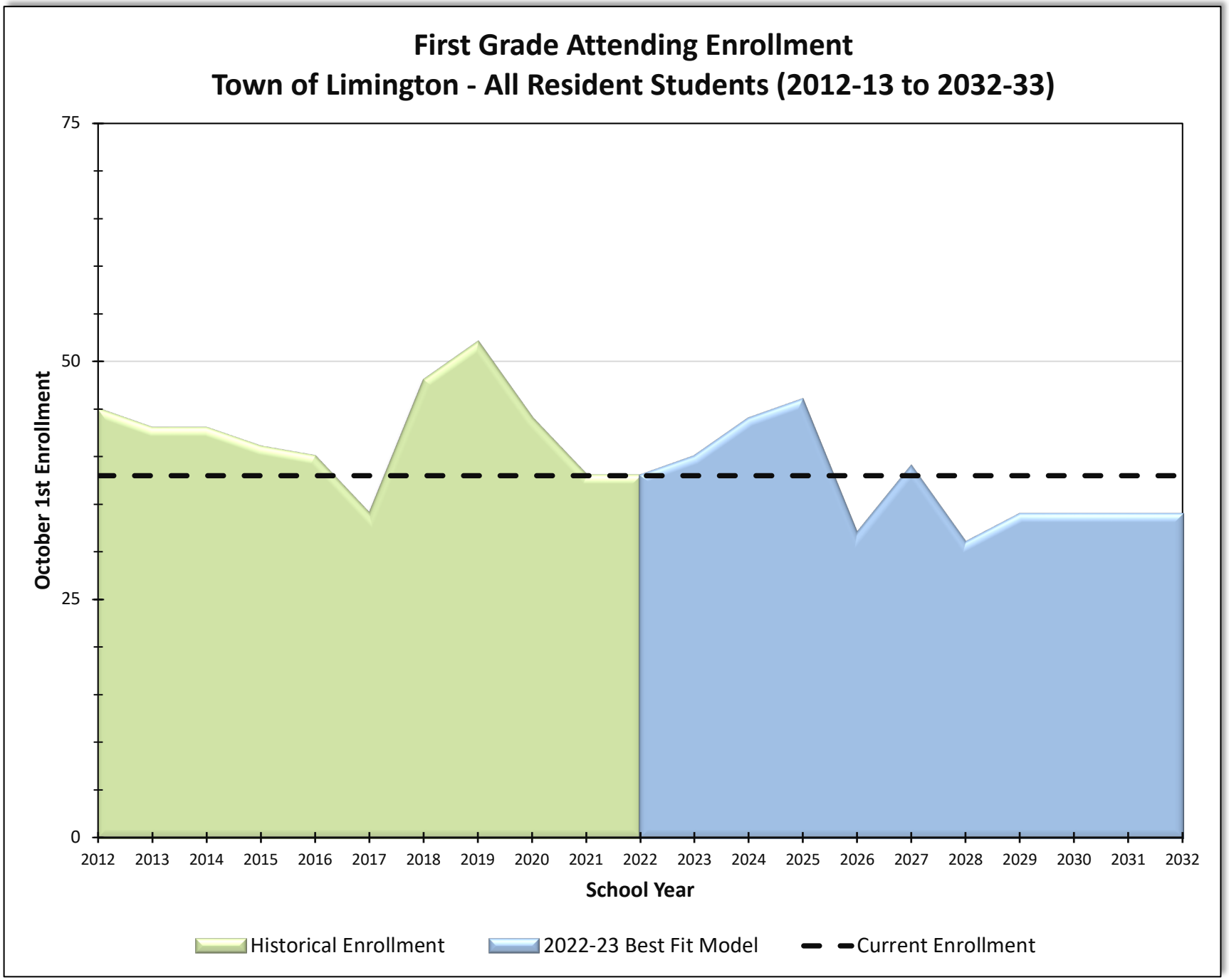

Resident Births
Limington Residents (2006-07 to 2021-22)
70
60
50
40
30
20
10
0
# of Births
2006-07
2007-08
2008-09
2009-10
2010-11
2011-12
2012-13
2013-14
2014-15
2015-16
2016-17
2017-18
2018-19
2019-20
2020-21
2021-22
Birth Year
Resident Births (Impacted Historical 1st Grade Class Sizes)
Resident Births (Will Impact Future 1st Grade Class Sizes)
Projected Births (3 Yr. Avg. 20-22)

Figure 14


First Grade Attending Enrollment
Town of Limington - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
75
50
25
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

Appendix Table 4.3

Enrollment Trends & Projections - Town of Limington - MSAD 6 Resident Enrollment - 2022-23 Best Fit Model

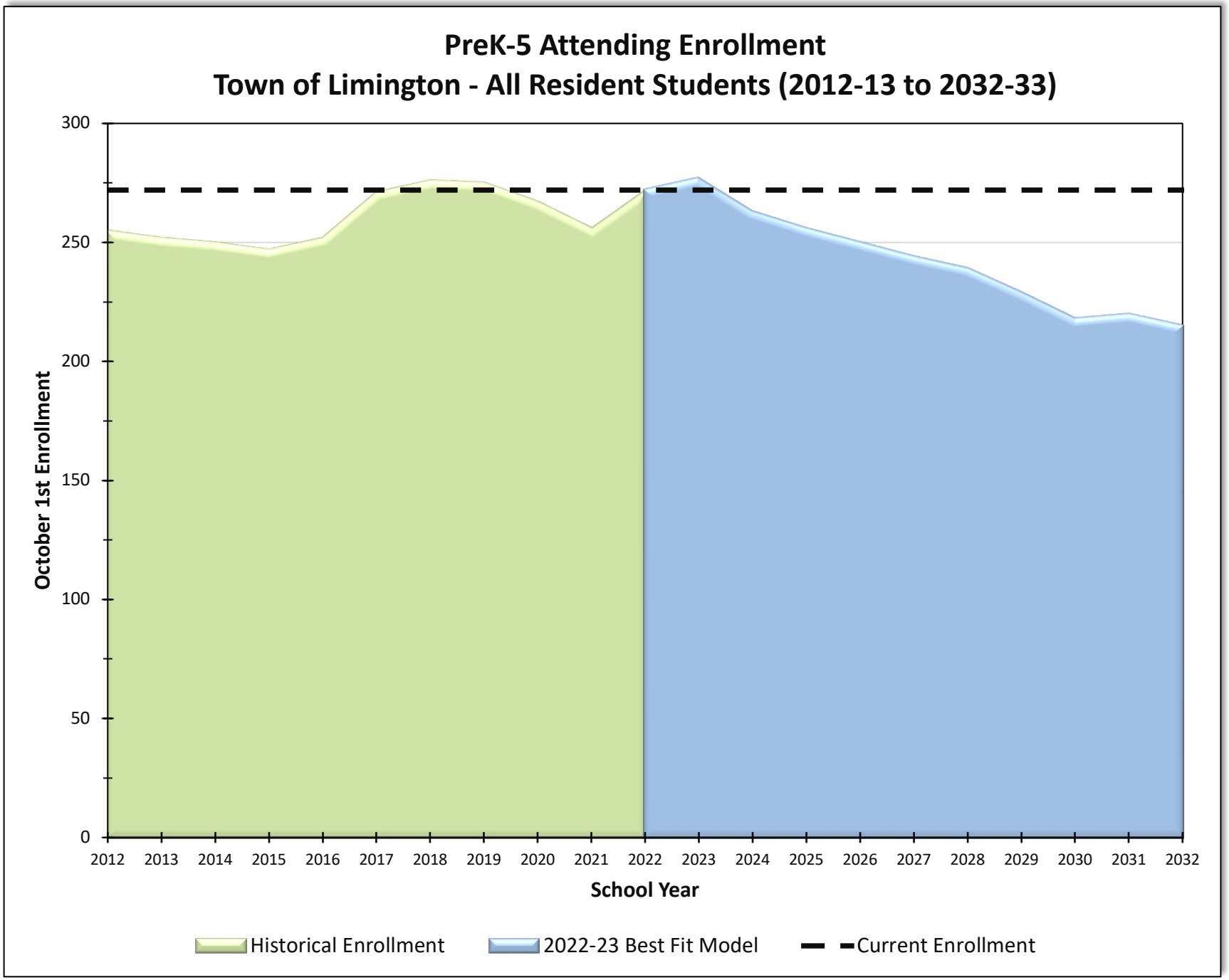
School Year	Resident Students Attending District Schools					Resident Students at NON-District Schools					Total ALL Limington Students				
	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12
Historical															
2012-13	254	128	382	179	**561**	1	1	2	1	**3**	255	129	384	180	**564**
2013-14	252	101	353	172	**525**	0	1	1	2	**3**	252	102	354	174	**528**
2014-15	246	128	374	158	**532**	4	3	7	5	**12**	250	131	381	163	**544**
2015-16	244	115	359	161	**520**	3	3	6	3	**9**	247	118	365	164	**529**
2016-17	251	106	357	133	**490**	1	0	1	8	**9**	252	106	358	141	**499**
2017-18	268	93	361	137	**498**	3	1	4	5	**9**	271	94	365	142	**507**
2018-19	276	107	383	145	**528**	0	2	2	11	**13**	276	109	385	156	**541**
2019-20	275	121	396	128	**524**	0	0	0	9	**9**	275	121	396	137	**533**
2020-21	263	130	393	159	**552**	4	1	5	9	**14**	267	131	398	168	**566**
2021-22	255	125	380	155	**535**	1	2	3	9	**12**	256	127	383	164	**547**
2022-23	271	127	398	161	**559**	1	1	2	10	**12**	272	128	400	171	**571**
Projected															
2023-24	275	126	401	176	**577**	2	1	3	10	**13**	277	127	404	186	**590**
2024-25	262	132	394	181	**575**	1	1	2	11	**13**	263	133	396	192	**588**
2025-26	255	140	395	178	**573**	1	1	2	10	**12**	256	141	397	188	**585**
2026-27	249	137	386	177	**563**	1	1	2	10	**12**	250	138	388	187	**575**
2027-28	243	123	366	185	**551**	1	1	2	11	**13**	244	124	368	196	**564**
2028-29	238	121	359	183	**542**	1	1	2	11	**13**	239	122	361	194	**555**
2029-30	228	125	353	187	**540**	1	1	2	11	**13**	229	126	355	198	**553**
2030-31	217	131	348	184	**532**	1	1	2	11	**13**	218	132	350	195	**545**
2031-32	219	124	343	170	**513**	1	1	2	10	**12**	220	125	345	180	**525**
2032-33	214	118	332	171	**503**	1	1	2	10	**12**	215	119	334	181	**515**

Notes: October 1st Enrollment data. Enrollment data contains all resident students but excludes 100% homeschooled students.

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Figure 15


PreK-5 Attending Enrollment
Town of Limington - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
300
250
200
150
100
50
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

VIII. ATTENDING FIRST GRADE AND PREK-5 ENROLLMENT FOR STANDISH

A. Historical First Grade Enrollment

First grade enrollment in Standish over the last ten years (2013-14 to 2022-23) fluctuated year-to-year while declining, on average. During this ten-year period, first grade enrollment ranged between 64 and 94 students, and averaged 78 students. The average first grade enrollment over the last five years (2018-19 to 2022-23), was 74 students, 9 students less than the average of the previous five-year period (2013-14 to 2017-18), or 83 students. Enrollment over the last three years (2020-21 to 2022-23) declined a bit more, with first grade enrollment averaging 72 students. ***(See Table II-1-4 and Figure 16).***

B. Resident Births Influencing Historical Enrollment

Resident births in Standish during the ten-year period (2006-07 to 2015-16) influencing first grade enrollment over the last ten years (2013-14 to 2022-23), fluctuated year-to-year, but remained stable, on average. The average number of births over the last five years of the period, (2011-12 to 2015-16), was 84 births, which was only 1 birth lower than the previous five-year period (2006-07 to 2010-11), which had an average of 85 births per year. In addition, over the last three years of the period (2013-14 to 2015-16) births continued to remain stable, averaging 86 births annually. ***(See Table II-1-4 and Figure 16).***

C. Resident Births Influencing Future Enrollment

Over the last ten-years, 2012-13 to 2021-22, births to residents of Standish declined, to average 78 births annually, with births significantly fluctuating year-to-year, ranging between 59 and 90 births. The most recent five-year period (2017-18 to 2021-22) increased to average 76 births, and over the last three years (2019-20 to 2021-22) the average of births to residents averaged 73 births. When looking at the most recent average of births compared to births between 2006-07 and 2010-11 (average of 85 births per year), Standish experienced an average loss of about 11 births per year. ***(See Table II-1-4 and Figure 17).***

The "best fit" projections used the 3-year average, or the 2022-23 "Best Fit" Model for Standish assumes resident births would average about 97 births annually.

D. Net Preschool Migration Trends

In the first five years of the last decade, (2013-14 to 2017-18), Standish experienced an in-migration of preschool-aged children, with an average migration ratio of 1.013, or first grade experienced an average increase of about 1.3% from the number of births six years prior. In the past five years, (2018-19 to 2022-23), Standish experienced a preschool out-migration, with an average migration ratio of 0.970, or an average decline of 3%. Additionally, over the last three years, (2020-21 to 2022-23), a slight preschool out-migration continued, with an average ratio of 0.903, or an average 9.7% loss from births. However, when looking at the migration trends on the year-to-year basis, preschool migration is not quite so stable, with wide swings from an in-migration of 6.5% to an out-migration of 9.2%, then a 5.8% in-migration, back to an out-migration of 25.7%. ***(See Table II-1-4).***

E. Projections of Entering First Grade Class Sizes

The 2022-23 "Best Fit" Model is based on 97 average births, and on a continuation of preschool migration similar to the level occurring over the last 3 years. ***(See Table II-1-4 and Figure 17).***

- Under the 2022-23 "Best Fit" Model, first grade enrollment is projected to experience yearly swings corresponding with swings in resident births. Enrollment is projected to range between 84 and 103 students, and average 92 students annually through 2032-33.

F. Resident and Attending Enrollment Trends and Projections for Grades PreK-5

Historical Trends:

Since 2012-13, Standish resident attending enrollment in grades PreK-5 fluctuated year-to-year, declining from 596 students to reach 508 students by 2022-23.

- *Enrollment of Standish students attending out of district schools ranged between 3 and 10 students through 2022-23.*

2022-23 "Best Fit" Model:

Under the 2022-23 "Best Fit" Model, PreK-5 resident attending enrollment will increase from the current enrollment of 508 students to reach 548 students by 2028-29. Following 2028-29, enrollment is projected to increase further, but should level off to range between 556 and 573 students through 2032-33.

- *Another 5 to 6 Standish resident students in grades PreK-5 are projected to attend non-district schools each year through 2032-33.*

Table II-1-3 - Relationship of Entering First Grade Class Size to Resident Births
Town of Standish - MSAD 6 - Resident Attending Enrollment

Birth Year (Oct. 15 - Oct. 14)	# of Resident Births	First Grade Year	Best Fit Model		
			Enrollment	Ratio 1st/Births	+/-%
2006-07	120	2013-14	99	0.825	-17.5%
2007-08	96	2014-15	96	1.000	0.0%
2008-09	96	2015-16	98	1.021	2.1%
2009-10	70	2016-17	83	1.186	18.6%
2010-11	89	2017-18	92	1.034	3.4%
2011-12	81	2018-19	87	1.074	7.4%
2012-13	92	2019-20	98	1.065	6.5%
2013-14	98	2020-21	89	0.908	-9.2%
2014-15	86	2021-22	91	1.058	5.8%
2015-16	105	2022-23*	78	0.743	-25.7%
2016-17	102	2023-24	84	0.824	-17.6%
2017-18	88	2024-25	86	0.980	-2.0%
2018-19	86	2025-26	84	0.980	-2.0%
2019-20	90	2026-27	88	0.980	-2.0%
2020-21	105	2027-28	103	0.980	-2.0%
2021-22*	97	2028-29	95	0.980	-2.0%
2022-23 est	97	2029-30	95	0.980	-2.0%
2023-24 est	97	2030-31	95	0.980	-2.0%
2024-25 est	97	2031-32	95	0.980	-2.0%
2025-26 est	97	2032-33	95	0.980	-2.0%
10-Yr Avg. (2006-07 to 2015-16)	93	**10-Yr Avg. (2013-14 to 2022-23)**	91	0.991	-0.9%
5-Yr Avg. (2006-07 to 2010-11)	94	**First 5-Yr Avg. (2013-14 to 2017-18)**	94	1.013	1.3%
5-Yr Avg. Births (2011-12 to 2015-16)	92	**Most Recent 5-Yr Avg. (2018-19 to 2022-23)**	89	0.970	-3.0%
Births 3-Yr Avg. (2013-14 to 2015-16)	96	**Most Recent 3-Yr Avg. (2020-21 to 2022-23)**	86	0.903	-9.7%
Most Recent 10-Yr Avg. (2012-13 to 2021-22)	95	**Projected 10-Yr Avg. (2023-24 to 2032-33)**	**92**	0.965	-3.5%
Most Recent 5-Yr Avg. (2017-18 to 2021-22)	93				
Most Recent 3-Yr Avg. (2019-20 to 2021-22)	97				

Births: Maine Center for Disease Control and Prevention, Data, Research and Vital Statistics. 2022 births are preliminary and provisional; *Future births between 2022-23 and 2025-26 were based on the 3-year average of births between 2019-20 and 2021-22. **Note:** Enrollment includes all resident students attending district schools. First to birth ratios shown here are based on the rounded first grade projection from the Entering Class to Births Ratio Worksheet. **Historical Enrollment Source:** 2012-2017 from MDOE, 2018-2022 from the district. All else calculated by Wandell Consulting.

Figure 16

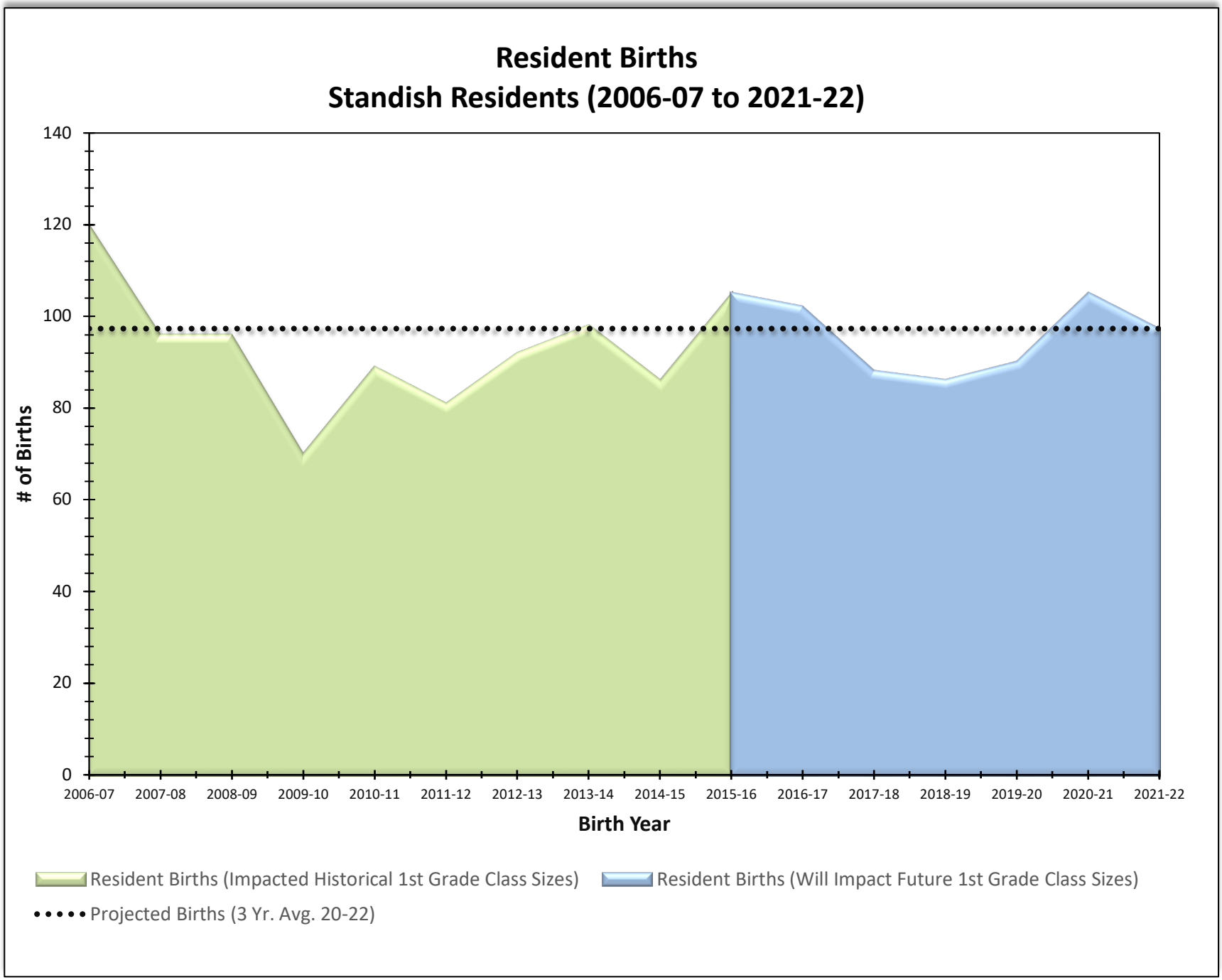
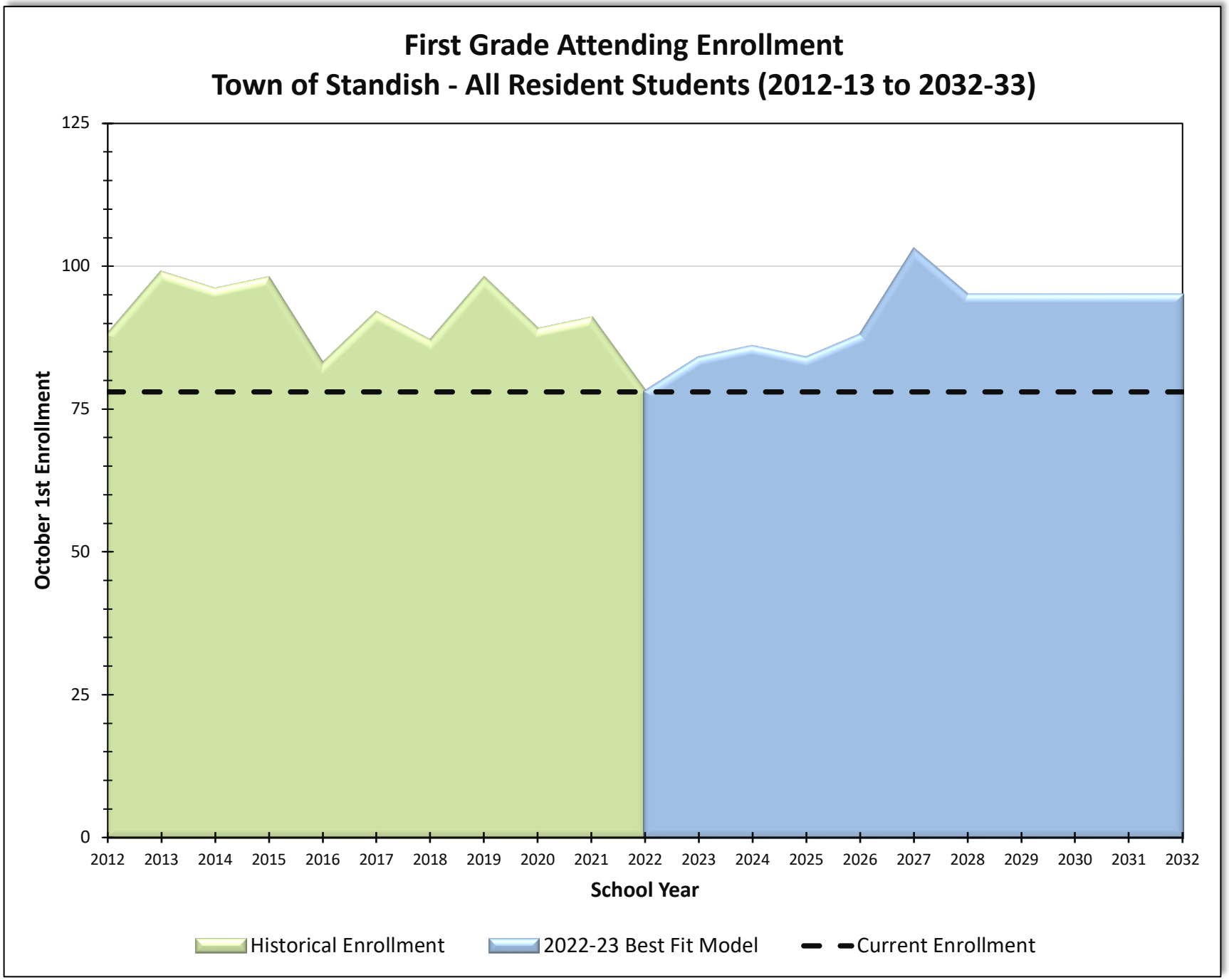

Resident Births
Standish Residents (2006-07 to 2021-22)
# of Births
140
120
100
80
60
40
20
0
2006-07
2007-08
2008-09
2009-10
2010-11
2011-12
2012-13
2013-14
2014-15
2015-16
2016-17
2017-18
2018-19
2019-20
2020-21
2021-22
Birth Year
Resident Births (Impacted Historical 1st Grade Class Sizes)
Resident Births (Will Impact Future 1st Grade Class Sizes)
Projected Births (3 Yr. Avg. 20-22)

Figure 17


First Grade Attending Enrollment
Town of Standish - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
125
100
75
50
25
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

Appendix Table 4.4

Enrollment Trends & Projections - Town of Standish - MSAD 6 Resident Enrollment - 2022-23 Best Fit Model

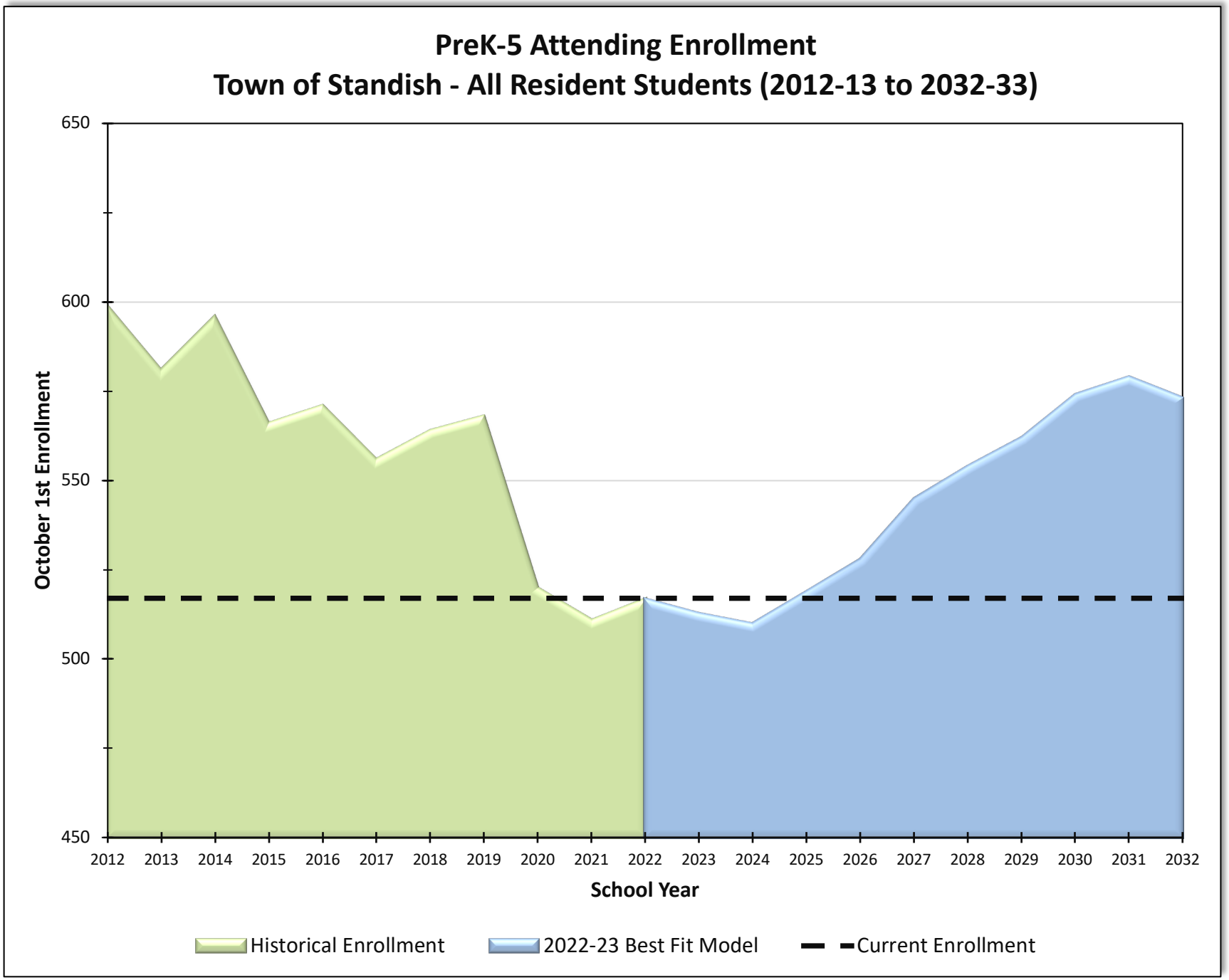
School Year	Resident Students Attending District Schools					Resident Students at NON-District Schools					Total ALL Standish Students				
	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12
Historical															
2012-13	596	365	961	470	**1,431**	3	0	3	1	**4**	599	365	964	471	**1,435**
2013-14	577	341	918	463	**1,381**	4	3	7	7	**14**	581	344	925	470	**1,395**
2014-15	588	301	889	466	**1,355**	8	12	20	16	**36**	596	313	909	482	**1,391**
2015-16	558	304	862	444	**1,306**	8	9	17	34	**51**	566	313	879	478	**1,357**
2016-17	561	289	850	429	**1,279**	10	6	16	32	**48**	571	295	866	461	**1,327**
2017-18	553	281	834	410	**1,244**	3	8	11	29	**40**	556	289	845	439	**1,284**
2018-19	557	256	813	381	**1,194**	7	5	12	31	**43**	564	261	825	412	**1,237**
2019-20	561	265	826	380	**1,206**	7	3	10	21	**31**	568	268	836	401	**1,237**
2020-21	518	271	789	370	**1,159**	2	2	4	14	**18**	520	273	793	384	**1,177**
2021-22	507	282	789	347	**1,136**	4	5	9	10	**19**	511	287	798	357	**1,155**
2022-23	508	261	769	333	**1,102**	9	2	11	11	**22**	517	263	780	344	**1,124**
Projected															
2023-24	508	249	757	356	**1,113**	5	3	8	12	**20**	513	252	765	368	**1,133**
2024-25	505	247	752	361	**1,113**	5	3	8	12	**20**	510	250	760	373	**1,133**
2025-26	514	246	760	362	**1,122**	5	3	8	12	**20**	519	249	768	374	**1,142**
2026-27	523	252	775	344	**1,119**	5	3	8	11	**19**	528	255	783	355	**1,138**
2027-28	539	243	782	334	**1,116**	6	3	9	11	**20**	545	246	791	345	**1,136**
2028-29	548	245	793	325	**1,118**	6	3	9	11	**20**	554	248	802	336	**1,138**
2029-30	556	237	793	335	**1,128**	6	3	9	11	**20**	562	240	802	346	**1,148**
2030-31	568	244	812	327	**1,139**	6	3	9	11	**20**	574	247	821	338	**1,159**
2031-32	573	247	820	323	**1,143**	6	3	9	11	**20**	579	250	829	334	**1,163**
2032-33	567	263	830	329	**1,159**	6	3	9	11	**20**	573	266	839	340	**1,179**

Notes: October 1st Enrollment data. Enrollment data contains all resident students but excludes 100% homeschooled students.

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Figure 18


PreK-5 Attending Enrollment
Town of Standish - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
650
600
550
500
450
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

IX. ASSESSMENT OF ECONOMIC CONDITIONS, POPULATION TRENDS, AND RESIDENTIAL DEVELOPMENT AND THEIR RELATIONSHIP TO SCHOOL ENROLLMENT

Future school enrollment is impacted by past, current, and future trends in population, housing development, and economic conditions. With the growth of a population and development of new homes comes the potential for new students in the school system. Because school enrollment is impacted by residential development, development trends in the district are analyzed. This information is then used to test whether the "best fit" cohort survival enrollment projections adequately reflect the impact of potential residential development trends.

A. Economic Conditions

Table IX-1 presents trends in the Civilian Labor Force in MSAD 6, the **Portland-South Portland Metropolitan Area (Metro)**, and the State of Maine. Between 2018 and 2022, the **Portland-South Portland Metro's** Civilian Labor Force declined by 2.5% from 209,867 to 204,667, with a loss of 5,200 workers. The number of people unemployed remained stable in the **Portland-South Portland Metro** with the unemployment rate of 2.6% in 2018 and 2.5% in 2022. In the State of Maine, the unemployment rate also remained stable with an unemployment rate of 3.2% in 2018 and 3% in 2022, while the Civilian Labor Force declined by 4% over the period.

MSAD 6's Civilian Labor Force a decline, with a loss of 402 workers or 2.6% between 2018 and 2022. MSAD 6's decline in the Civilian Labor Force was similar to the loss experienced in the **Portland-South Portland Metro** (loss of 2.5%), but less the than the loss in the State of Maine as a whole (loss of 4%.) MSAD 6 also experienced a stable level of unemployment between 2018 and 2022, with the unemployment rate staying at 2.7% in 2018 and 2022.

Looking at overall trends, while the unemployment rate in MSAD 6 remained stable, there was a loss in the Civilian Labor Force. However, the loss of Civilian Labor Force was not so significant that it likely had an impact on school enrollment. Therefore, no changes to the 2022-23 "Best Fit" Model are necessary to account for changes in employment in MSAD 6. However, if significant change in the Civilian Labor Force occurs in the future, then the potential impact on school enrollment from economic condition changes might need to be reassessed.

Table IX-1

Trends in Civilian Labor Force, 2018 - 2022

Labor Market Area Influencing MSAD 6 vs. State of Maine

	MSAD 6				Portland-South Portland Metro				State of Maine			
	2018	2022	Change (2018-22)		2018	2022	Change (2018-22)		2018	2022	Change (2018-22)	
			#	%			#	%			#	%
Civilian Labor Force	15,592	15,190	-402	-2.6%	209,867	204,667	-5,200	-2.5%	703,138	674,875	-28,263	-4.0%
Employment	15,173	14,787	-386	-2.5%	204,448	199,623	-4,825	-2.4%	681,334	654,965	-26,369	-3.9%
Unemployment	419	403	-16	-3.8%	5,419	5,044	-375	-6.9%	22,272	19,910	-2,362	-10.6%
Unemployment Rate	2.7%	2.7%	0.0%		2.6%	2.5%	-0.1%		3.2%	3.0%	-0.2%	

Source: Maine Department of Labor, Center for Workforce Research and Information

B. Population Trends

Table IX-2 presents the population trends for MSAD 6 in comparison to Cumberland County, York County, and the State using data from the U.S. Census. In 2000, MSAD 6's total population was 24,254 people, increasing by 1,648 people to 25,902 by the year 2010, a 6.8% gain in total population. Between 2000 and 2010 Cumberland County experienced growth in total population, with an increase 8.3%, and York County increased by 5.6% while the population of the State of Maine increased by 4.2%. By 2020, MSAD 6's total population increased by 1,355 people to reach 27,257 people, for a 5.2% gain in total population, a slightly lower overall increase compared to what happened between 2000 and 2010. MSAD 6's overall population growth (6.8%) fell between Cumberland County (8.3%) and York County (5.6%) and was more than the State of Maine which increased by 4.2%.

The under 18 years of age population of MSAD 6 was 6,252 in 2000, by 2010, the under 18 population declined by 7.1% to 5,807 children, with a loss of 445 children. Between 2000 and 2010 Cumberland County and York County experienced loss in the under 18 population, with a loss of 5% and 8.5% while the under 18 population of the State of Maine declined by 8.9%. By 2020, MSAD 6's the under 18 population continued to decline, reaching 5,125 and losing another 11.7% or 682 children over the period. Over the last ten years between 2010 and 2020, the population of people under 18 years of age declined by 5% in Cumberland County, while York County declined by 8.5% and the State of Maine declined by 8.1%. The declines between 2010 and 2020 were very similar to what occurred between 2000 and 2010.

The school-aged population of MSAD 6 (5 to 17 years of age) was 4,775 in 2000. By 2010, that figure declined by 8.6% to 4,364 students, for a loss of 411 school-aged children. Between 2000 and 2010 Cumberland County experienced loss in school-aged population, with a loss of 21.9%, and York County declined by 9.9% while the population of the State of Maine declined by 11.1%. By 2020, MSAD 6's school-aged population declined by 525 people to reach 3,839 people, for a 12% loss in population, a higher overall decline compared to what happened between 2000 and 2010. MSAD 6 school-aged population loss (12%) was higher than Cumberland County (4.8%) and York County (8.3%) and the State of Maine which declined by 6.9%.

When we look at MSAD 6's population of fertile females (women who are 18 to 44 years of age), in 2000 there were 5,171 fertile females and by 2010 that figure declined by 10.3% or 534 women to reach a population of 4,637. Between 2000 and 2010 Cumberland County experienced loss in the fertile female population, with a loss 7.6%, and York County declined by 10.9% while the under 18 population of the State of Maine declined by 10%. By 2020 the fertile female continued to decline in MSAD 6 but at a much slower rate. By 2020 the fertile female population declined to reach 4,489 or by 3.2%, losing another 148 children over the period. However, between 2010 and 2020, the fertile female population increased by 6.4% in Cumberland County and by 5.1% in York County, while the State of Maine declined slightly by 1.8%.

Looking at the population of women who are generally considered past their fertile age, or women 45 years of age or older, MSAD 6 experienced a significant increase in population. Between 2000 and 2010, the population of women who are 45 years of age or older increased from 4,092 women to reach 5,567 women in 2010, for a gain of 1,475 women, or 36% over the period. Between 2000 and 2010 Cumberland County experienced growth in population of women who are 45 years or older, with an increase 25%, and York County increased by 28.7% while the population of the State of Maine increased by 22.8%. By 2020, MSAD 6's 45+ female population increased by 1,083 people to reach 6,650 women, for

a 19.5% gain in population, a lower overall increase compared to what happened between 2000 and 2010. MSAD 6 growth (19.5%) in population of women who are 45+ was higher than Cumberland County (14.4%) and York County (15.4%) and was more than the State of Maine which increased by 9.4%. However, it is important to note the increase in this 45+ female population seems to have slowed.

The implication is while the fertile female population has declined over the last twenty years, there has been significant growth in the population of women who have matured past the generally accepted age of fertility, or women who are 45 years of age or older. While the rate of growth has slowed, the continued growth in the 45 years of age or older female population and decline in the fertile female population would have had an impact on resident birth trends, which was evident in the decline noted in resident births since 2005-06.

Table IX-2 - Population Trends 2000 and 2010, 2020
MSAD 6 vs. Cumberland County, York County, and the State of Maine

Area	2000	2010	2020	2000-2010		2010-2020	
				#	%	#	%
TOTAL POPULATION							
Buxton	7,452	8,034	8,376	582	7.8%	342	4.3%
Hollis	4,114	4,281	4,745	167	4.1%	464	10.8%
Limington	3,403	3,713	3,892	310	9.1%	179	4.8%
Standish	9,285	9,874	10,244	589	6.3%	370	3.7%
MSAD 6	**24,254**	**25,902**	**27,257**	**1,648**	**6.8%**	**1,355**	**5.2%**
Cumberland County	265,612	287,674	303,069	22,062	8.3%	15,395	5.4%
York County	186,742	197,131	211,972	10,389	5.6%	14,841	7.5%
State	1,274,923	1,328,361	1,362,359	53,438	4.2%	33,998	2.6%
POPULATION UNDER 18							
Buxton	1,872	1,823	1,535	(49)	-2.6%	(288)	-15.8%
Hollis	1,102	942	966	(160)	-14.5%	24	2.5%
Limington	932	898	841	(34)	-3.6%	(57)	-6.3%
Standish	2,346	2,144	1,783	(202)	-8.6%	(361)	-16.8%
MSAD 6	**6,252**	**5,807**	**5,125**	**(445)**	**-7.1%**	**(682)**	**-11.7%**
Cumberland County	61,962	58,894	55,971	(3,068)	-5.0%	(2,923)	-5.0%
York County	46,273	42,091	38,508	(4,182)	-9.0%	(3,583)	-8.5%
State of Maine	301,238	274,533	252,274	(26,705)	-8.9%	(22,259)	-8.1%

SCHOOL-AGED POPULATION (5 to 17 Years of Age)							
Buxton	1,434	1,372	1,150	(62)	-4.3%	(222)	-16.2%
Hollis	845	680	742	(165)	-19.5%	62	9.1%
Limington	735	662	636	(73)	-9.9%	(26)	-3.9%
Standish	1,761	1,650	1,311	(111)	-6.3%	(339)	-20.5%
MSAD 6	**4,775**	**4,364**	**3,839**	**(411)**	**-8.6%**	**(525)**	**-12.0%**
Cumberland County	56,519	44,139	42,038	(12,380)	-21.9%	(2,101)	-4.8%
York County	35,257	31,780	29,133	(3,477)	-9.9%	(2,647)	-8.3%
State of Maine	230,512	205,013	190,797	(25,499)	-11.1%	(14,216)	-6.9%
FERTILE FEMALE POPULATION (Females 18 to 44 years of age)							
Buxton	1,494	1,272	1,343	(222)	-14.9%	71	5.6%
Hollis	851	715	730	(136)	-16.0%	15	2.1%
Limington	657	663	624	6	0.9%	(39)	-5.9%
Standish	2,169	1,987	1,792	(182)	-8.4%	(195)	-9.8%
MSAD 6	**5,171**	**4,637**	**4,489**	**(534)**	**-10.3%**	**(148)**	**-3.2%**
Cumberland County	53,660	49,568	52,764	(4,092)	-7.6%	3,196	6.4%
York County	35,191	31,357	32,946	(3,834)	-10.9%	1,589	5.1%
State of Maine	240,816	216,748	212,879	(24,068)	-10.0%	(3,869)	-1.8%
FEMALE POPULATION (Females 45+ years of age)							
Buxton	1,318	1,818	2,073	500	37.9%	255	14.0%
Hollis	685	968	1,177	283	41.3%	209	21.6%
Limington	614	748	905	134	21.8%	157	21.0%
Standish	1,475	2,033	2,495	558	37.8%	462	22.7%
MSAD 6	**4,092**	**5,567**	**6,650**	**1,475**	**36.0%**	**1,083**	**19.5%**
Cumberland County	53,435	66,770	76,362	13,335	25.0%	9,592	14.4%
York County	38,189	49,167	56,715	10,978	28.7%	7,548	15.4%
State of Maine	267,123	328,076	358,955	60,953	22.8%	30,879	9.4%
Source: 2000, 2010 and 2020 Decennial U.S. Census.							

C. Residential Development Trends

Trends in housing development are influenced by national and regional economic trends and local land-use policies. Two sets of data are used to examine residential development trends, the U.S. decennial Census and the American Community Survey for housing units and annual local new housing unit data.

1. U.S. Census Data

In 2010, total housing units in MSAD 6 had increased from 8,888 units in 2000 to reach 10,103 units, for an increase of 13.7% (gain of 1,215 units), or an average of 122 new units were added annually. ***(See Table IX-3).*** By 2020, total housing units in MSAD 6 had increased to 10,912 units, an increase of 8% (gain of 809 units), or an average of 81 new year-round housing units were added annually. This indicates that while new homes were added, the overall new home development slowed over the last ten years. When looking at Cumberland County and York County, both counties experienced an increase in year-round housing units, but the pattern was the same, with more new home development occurring between 2000 and 2010 than between 2010 and 2022. To account for more recent development, the most recent year-to-year residential development trends will be analyzed next.

Table IX-3 - Housing Trends 2000-2020
MSAD 6 vs. Cumberland County, York County, and the State of Maine

Area	# of Year-Round Housing Units			Change (2000-2010)		Average # Added/Year	Change (2010-2020)		Average # Added/Year
	2000	2010	2020	# of units	% Change		# of units	% Change	
Buxton	2,858	3,225	3,414	367	12.8%	37	189	5.9%	19
Hollis	1,547	1,747	1,921	200	12.9%	20	174	10.0%	17
Limington	1,184	1,448	1,551	264	22.3%	26	103	7.1%	10
Standish	3,299	3,683	4,026	384	11.6%	38	343	9.3%	34
MSAD 6	**8,888**	**10,103**	**10,912**	**1,215**	**13.7%**	**122**	**809**	**8.0%**	**81**
Cumberland County	111,750	123,977	134,211	12,227	10.9%	1,223	10,234	8.3%	1,023
York County	77,629	87,103	93,622	9,474	12.2%	947	6,519	7.5%	652
State of Maine	550,361	603,360	625,906	52,999	9.6%	5300	22,546	3.7%	2255

Note: Year-Round Housing unit data excludes Seasonal and Migrant Housing. **Source:** 2000, 2010, and 2020 Decennial Census

2. Local Housing Data

Table IX-4 presents trends in annual new housing units built in MSAD 6 between 2002 and 2022. Local residential housing data is examined to estimate housing units in the future and to determine if residential development in MSAD 6 is impacting school enrollment trends. Data on annual new housing units added since 2002 is used to analyze residential development trends and was obtained from various sources including the State of the Cities Data Systems (SODCS), Office of Policy Development and Research, US Department of Housing and Urban Development, from the US Census Bureau and from each Town in MSAD 6. While these figures have come from various sources, it should be accurate enough to determine the impact housing may have had on school enrollment. ***(See Table IX-4 and Figure 19.)***

Since 2002, permits for new housing units fluctuated year-to-year, ranging between 34 and 221 units annually through 2022. When looking at new housing units added over the last 10-years, on average, 107 new housing units have been added annually since 2013. Over the last five years (2018 to 2022), 121 new housing units were added annually while the previous five-year period (2013 to 2017) experienced average growth of 93 new housing units per year. Looking at the last three years of data, (2020 to 2022), on average, 130 new housing units were added annually.

Future new housing development is often difficult to predict and depends on demand, developer interest, availability of buildable lots and the economy. Future development is unlikely to continue to increase above and beyond the most recent levels and is more likely future development will remain at average levels seen over the last three to five-year periods. Therefore, future new housing development will likely continue to fluctuate year-to-year based on demand and will likely continue somewhere around 100 to 155 new housing units added annually at least for the near future.

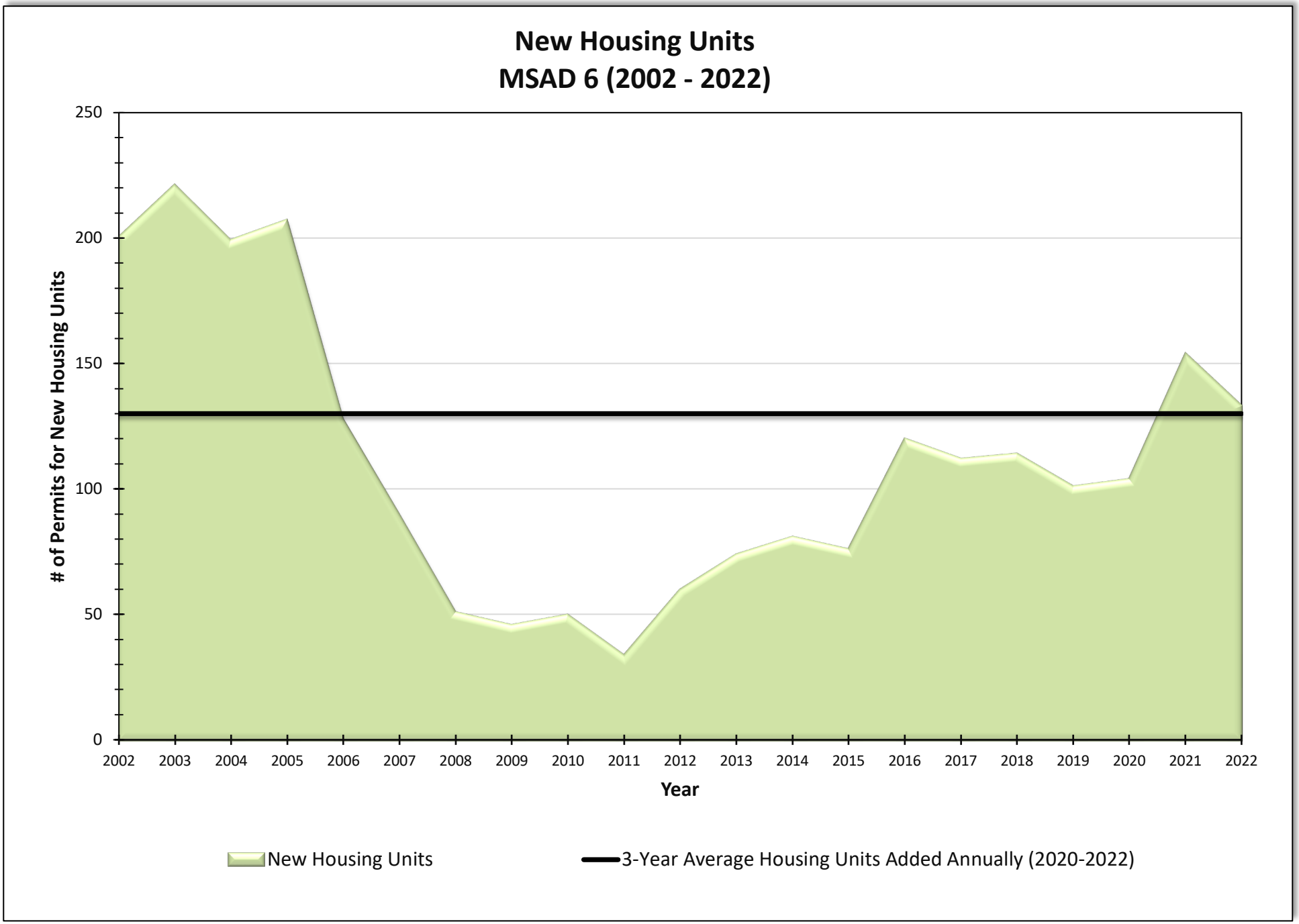
To determine what the potential impact is on enrollment from future new housing unit development we first need to look at historical impacts of housing unit development on preschool and elementary migration in MSAD 6 to determine what impact, if any, historical new housing unit development has had on historical enrollment.

Table IX-4
Trends in New Housing Units - 2002-2022 - MSAD 6

Calendar Year	Buxton	Hollis	Limington	Standish	New Housing Units
2002	41	45	44	70	**200**
2003	82	45	41	53	**221**
2004	76	42	39	42	**199**
2005	58	70	43	36	**207**
2006	33	24	29	42	**128**
2007	23	20	18	29	**90**
2008	13	6	14	18	**51**
2009	16	5	8	17	**46**
2010	12	12	8	18	**50**
2011	10	11	5	8	**34**
2012	15	17	10	18	**60**
2013	21	22	8	23	**74**
2014	19	28	4	30	**81**
2015	24	25	7	20	**76**
2016	23	41	18	38	**120**
2017	22	40	15	35	**112**
2018	21	25	30	38	**114**
2019	21	24	19	37	**101**
2020	22	25	19	38	**104**
2021	38	29	43	44	**154**
2022	35	27	31	40	**133**
Most Recent 10-Year Avg. (2013 to 2022)	**25**	**29**	**19**	**34**	**107**
5-Year Avg. (2013 to 2017)	**22**	**31**	**10**	**29**	**93**
Most Recent 5-Year Avg. (2018 to 2022)	**25**	**26**	**28**	**39**	**121**
Most Recent 3-Year Avg. (2020 to 2022)	**27**	**27**	**31**	**41**	**130**

Source: State of the Cities Data Systems (SOCDS), Office of Policy Development and Research, US Department of Housing and Urban Development

Figure 19


New Housing Units
MSAD 6 (2002 - 2022)
# of Permits for New Housing Units
250
200
150
100
50
0
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
Year
New Housing Units
3-Year Average Housing Units Added Annually (2020-2022)

D. Relationship of Residential Development to School Enrollment

The "best fit" cohort survival does not directly incorporate the level of residential development and turnover in the existing housing stock when projecting school enrollment. Instead, the survival ratios used within cohort models reflect the historical impact of net migration (which is influenced by residential development and turnover) on school enrollment. What this means is, if future residential development levels, turnover levels, or their relationship to net migration is **significantly** different from levels experienced in the past ten years, then the "best fit" cohort survival model may overstate or understate future enrollment depends on the strongest statistical correlation of trends. For school planning purposes, understanding the degree to which residential development activity will impact school enrollment is important.

1. Net Preschool Migration

To show the relationship between residential development and preschool net migration, the ratios between net preschool migration reflected in the first-grade enrollment and the number of new housing units built in MSAD 6 between the year of the first-grade enrollment year and the six years prior was examined. ***(See Table IX-5).***

On average, for each of the six-year periods examined, 506 new homes were built in MSAD 6. There was a net out-migration of preschool-aged children for each of the first-grade enrollment years with an out-migration of 15 children, for a ratio of -0.029 children per unit, or a loss of about 3 children for every 100 units built.

When looking at the trends over the last five years between 2013-17 and 2017-21, on average, 525 new housing units were built in MSAD 6, a slightly higher level compared with what occurred over the six-year period. The average out-migration of preschool-aged children for each of the first-grade enrollment years was higher than the 6-year average, or an average out-migration of 20 children occurred, for a ratio of 0.037 children per unit, or a loss around 4 children for every 100 units built.

In addition, when looking at the trends over the last three-year period between 2015-19 and 2017-22, on average, 553 new housing units were built in MSAD 6, an even higher level compared with what occurred over the five-year period. However, over this three-year period, an average out-migration of 30 children occurred, for a ratio of 0.055 children per unit, or a loss of about 6 children for every 100 units built.

When looking at the migration year-to-year, despite the number of new housing units built, preschool migration fluctuated between and in-migration and an out-migration. What this means is preschool migration appears to be working independently of new housing unit development, indicating there is no direct statistical relationship between new residential development and preschool migration trends in MSAD 6. **Without a statistical relationship between historical new housing development and historical preschool migration trends, no adjustment to the 2022-23 "Best Fit" Model will be necessary to account for the impact of new housing unit development on first grade enrollment. Since preschool migration trends can change over time, it will be important for the district to keep an eye on new housing unit development and migration to see if changes occur in the future.**

Table IX-5
Births, First Grade Enrollments, Net Preschool Migration and New Housing Units Added
MSAD 6

Birth Year	# of Births	1st Grade Class Year	1st Grade Enrollment	Net Migration	Building Years	New Housing Units Added	Ratio Migr/HU
2006-07	336	10/13	277	-59	2007-11	241	-0.245
2007-08	272	10/14	273	1	2008-12	264	0.004
2008-09	291	10/15	276	-15	2009-13	299	-0.050
2009-10	243	10/16	240	-3	2010-14	325	-0.009
2010-11	246	10/17	255	9	2011-15	411	0.022
2011-12	282	10/18	260	-22	2013-17	463	-0.048
2012-13	253	10/19	268	15	2014-18	503	0.030
2013-14	263	10/20	238	-25	2015-19	523	-0.048
2014-15	278	10/21	254	-24	2016-20	551	-0.044
2015-16	271	10/22	229	-42	2017-21	585	-0.072
6 Yr Avg. (10/11 - 15/16)	266	**6 Year Avg. (17-22)**	251	-15	**Avg. 11-21**	506	-0.029
5 Yr Avg. (11/12 - 15/16)	269	**5 Year Avg. (18-22)**	250	-20	**Avg. 13-21**	525	-0.037
3 Yr Avg. (13/14 - 15/16)	271	**3 Year Avg. (20-22)**	240	-30	**Avg. 15-21**	553	-0.055

Sources: Births - Bureau of Health Statistics and Data Management, Maine Department of Health and Human Services, Bureau of Vital Records Administration. 1st Grade Enrollment - October 1st, 2013 to 2017 from MDOE, 2018 to 2022 from MSAD 6. Residential New Housing Units - State of the Cities Data Systems (SOCDS), Office of Policy Development and Research, US Department of Housing and Urban Development

2. Net Elementary (Grades 1-6) Migration

To assess the relationship between residential development levels and migration of students at the elementary grades (first to sixth), the ratio of annual net migration of students at each of the grade levels and annual new housing units built in MSAD 6 during the year was analyzed using the permit data for the preceding year. ***(See Table IX-6).***

In the ten years between 2012 and 2021, (the permit year before the enrollment year is used here), MSAD 6 experienced an average net out-migration of 14 elementary students while migration significantly fluctuated year-to-year between an out-migration of 67 students and an in-migration of 14 students. The average ratio of out-migration of elementary students (1-6) to new housing units was -0.141, or, on average, over the last ten years for every 100 housing units built in MSAD 6 an out-migration of almost 14 students occurred in grades 1-6, on average.

MSAD 6 experienced an out-migration of 21 elementary students over the last five years (2017 to 2021), for an average migration ratio of 0.178. Or, on average, over the last five years for every 100 housing units built in MSAD 6 an out-migration of about 18 elementary-aged students occurred.

Looking at development over the last three years (2019 to 2021) an average of 120 new housing units were added and MSAD 6 experienced an average out-migration of 25 elementary students, with an out-migration ratio of 0.209. Or, on average, over the last three years for every 100 housing units built in MSAD 6 an out-migration of about 210 elementary-aged students occurred.

Elementary migration fluctuated between and in-migration and an out-migration of students despite the number of new housing units built, and migration was an average out-migration overall. What this means is elementary migration appears to be working independently of new housing unit development, and no direct statistical relationship between residential development and elementary migration trends in MSAD 6 are seen. **Without a statistical relationship between historical new housing development and historical elementary migration trends, no adjustment to the 2022-23 "Best Fit" Model will be necessary to account for the impact of new housing unit development on elementary migration.**

Table IX-6
Net Elementary (1-6) Migration and New Housing Unit Development
MSAD 6

Enrollment Years	Net Migration	Permit Year	# of New Housing Units	Ratio Migr/Perm
2012-13 to 2013-14	-29	2012	60	-0.483
2013-14 to 2014-15	-13	2013	74	-0.176
2014-15 to 2015-16	-17	2014	81	-0.210
2015-16 to 2016-17	14	2015	76	0.184
2016-17 to 2017-18	9	2016	120	0.075
2017-18 to 2018-19	-31	2017	112	-0.277
2018-19 to 2019-20	2	2018	114	0.018
2019-20 to 2020-21	-67	2019	101	-0.663
2020-21 to 2021-22	-18	2020	104	-0.173
2021-22 to 2022-23	10	2021	154	0.065
10 yr Avg (11/12 - 20/21)	-14	**10 yr Avg (12-21)**	100	-0.141
5 yr Avg (16/17 - 20/21)	-21	**5 yr Avg (17-21)**	117	-0.178
3 yr Avg (18/19 - 20/21)	-25	**3 yr Avg (19-21)**	120	-0.209

Sources: Net Migration - Calculated based on October 1st Resident Enrollment data from MDOE. **Residential New Housing Units:** 2012-2022 from State of the Cities Data Systems (SOCDS), Office of Policy Development and Research, US Department of Housing and Urban Development

E. Summary and Recommendations Regarding Economic Conditions, Population Trends, and Residential Development

Based on recent trends, MSAD 6 most likely will continue to experience a level of growth similar to what has occurred over the last three to five-years with 100 to 150 new housing units added per year. When looking at historical residential development compared with historical preschool and elementary migration, the migration of students fluctuated significantly despite the number of new housing units added. Therefore, no direct statistical relationship between the addition of new housing units and preschool and elementary migration was found.

The 2022-23 "Best Fit" Model is a standard statistical model which projects enrollment based on historical trends and is the most likely scenario to occur in MSAD 6 if future enrollment follows the historical pattern of enrollment. At this time, there is no statistical support for an additional model based on the impact of housing development, economic conditions, or population trends. However, it is important to note that if future recessions or economic booms occur, if another Pandemic occurs, or if significant residential development and/or population changes occur, the enrollment projections would need to be reassessed.

X. SUMMARY OF ENROLLMENT PROJECTIONS FOR SCHOOL PLANNING PURPOSES

To provide reasonable cushions for use in planning school facilities, the enrollment projections by grade group and presented the projections within ranges of plus and minus 10% for the PreK-8 grade groups, and plus and minus 5% for grades 9-12. In addition, more conservative ranges of 3% across all grade levels are supplied. These ranges should provide the school district with some idea of what future enrollment would look like under different scenarios. The report **Appendix** contains grade by grade historical and projected enrollment.

Appendix Table 5
All MSAD 6 Resident Students - 2022-23 Best Fit Model

Enrollment Projection Ranges (+/-5% and +/-10%) - October 1st Enrollment

School Year	Grades PreK-5			Grades 6-8			Grades PreK-8			Grades 9-12			Total All Grades PreK-12		
	-10%	Proj.	+10%	-10%	Proj.	+10%	-10%	Proj.	+10%	-5%	Proj.	+5%	-Range	Proj.	+Range
2022-23*		1,527			744			2,271			1,066			3,337	
2023-24	1,382	**1,535**	1,689	645	**717**	789	2,027	**2,252**	2,478	1,031	**1,085**	1,139	3,058	**3,337**	3,617
2024-25	1,364	**1,515**	1,667	651	**723**	795	2,015	**2,238**	2,462	1,004	**1,057**	1,110	3,019	**3,295**	3,572
2025-26	1,349	**1,499**	1,649	655	**728**	801	2,004	**2,227**	2,450	984	**1,036**	1,088	2,988	**3,263**	3,538
2026-27	1,347	**1,497**	1,647	661	**734**	807	2,008	**2,231**	2,454	944	**994**	1,044	2,952	**3,225**	3,498
2027-28	1,355	**1,506**	1,657	635	**706**	777	1,990	**2,212**	2,434	922	**971**	1,020	2,912	**3,183**	3,454
2028-29	1,355	**1,505**	1,656	634	**704**	774	1,989	**2,209**	2,430	917	**965**	1,013	2,906	**3,174**	3,443
2029-30	1,342	**1,491**	1,640	630	**700**	770	1,972	**2,191**	2,410	935	**984**	1,033	2,907	**3,175**	3,443
2030-31	1,337	**1,486**	1,635	645	**717**	789	1,982	**2,203**	2,424	914	**962**	1,010	2,896	**3,165**	3,434
2031-32	1,357	**1,508**	1,659	625	**694**	763	1,982	**2,202**	2,422	898	**945**	992	2,880	**3,147**	3,414
2032-33	1,337	**1,486**	1,635	632	**702**	772	1,969	**2,188**	2,407	907	**955**	1,003	2,876	**3,143**	3,410

Enrollment Projection Ranges (+/-3%) - October 1st Enrollment

School Year	Grades PreK-5			Grades 6-8			Grades PreK-8			Grades 9-12			Total All Grades PreK-12		
	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	3%
2022-23*		1,527			744			2,271			1,066			3,337	
2023-24	1,489	**1,535**	1,581	695	**717**	739	2,184	**2,252**	2,320	1,052	**1,085**	1,118	3,236	**3,337**	3,438
2024-25	1,470	**1,515**	1,560	701	**723**	745	2,171	**2,238**	2,305	1,025	**1,057**	1,089	3,196	**3,295**	3,394
2025-26	1,454	**1,499**	1,544	706	**728**	750	2,160	**2,227**	2,294	1,005	**1,036**	1,067	3,165	**3,263**	3,361
2026-27	1,452	**1,497**	1,542	712	**734**	756	2,164	**2,231**	2,298	964	**994**	1,024	3,128	**3,225**	3,322
2027-28	1,461	**1,506**	1,551	685	**706**	727	2,146	**2,212**	2,278	942	**971**	1,000	3,088	**3,183**	3,278
2028-29	1,460	**1,505**	1,550	683	**704**	725	2,143	**2,209**	2,275	936	**965**	994	3,079	**3,174**	3,269
2029-30	1,446	**1,491**	1,536	679	**700**	721	2,125	**2,191**	2,257	954	**984**	1,014	3,079	**3,175**	3,271
2030-31	1,441	**1,486**	1,531	695	**717**	739	2,136	**2,203**	2,270	933	**962**	991	3,069	**3,165**	3,261
2031-32	1,463	**1,508**	1,553	673	**694**	715	2,136	**2,202**	2,268	917	**945**	973	3,053	**3,147**	3,241
2032-33	1,441	**1,486**	1,531	681	**702**	723	2,122	**2,188**	2,254	926	**955**	984	3,048	**3,143**	3,238

Notes: Enrollment data contains all resident students and excludes 100% homeschooled students.

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Appendix Table 7
MSAD 6 Attending Enrollment (Resident & Non-Resident) - 2022-23 Best Fit Model

Enrollment Projection Ranges (+/-5% and +/-10%) - October 1st Enrollment

School Year	PreK-5			6-8			PreK-8			Grades 9-12			Total All Grades PreK-12		
	-10%	Proj.	+10%	-10%	Proj.	+10%	-10%	Proj.	+10%	-5%	Proj.	+5%	-Range	Proj.	+Range
2022-23*		**1,527**			**735**			**2,262**			**1,021**			**3,283**	
2023-24	1,382	**1,535**	1,689	636	**707**	778	2,018	**2,242**	2,467	985	**1,037**	1,089	3,003	**3,279**	3,556
2024-25	1,364	**1,516**	1,668	642	**713**	784	2,006	**2,229**	2,452	960	**1,010**	1,061	2,966	**3,239**	3,513
2025-26	1,350	**1,500**	1,650	646	**718**	790	1,996	**2,218**	2,440	941	**990**	1,040	2,937	**3,208**	3,480
2026-27	1,348	**1,498**	1,648	652	**724**	796	2,000	**2,222**	2,444	903	**951**	999	2,903	**3,173**	3,443
2027-28	1,355	**1,506**	1,657	626	**696**	766	1,981	**2,202**	2,423	882	**928**	974	2,863	**3,130**	3,397
2028-29	1,355	**1,505**	1,656	625	**694**	763	1,980	**2,199**	2,419	876	**922**	968	2,856	**3,121**	3,387
2029-30	1,342	**1,491**	1,640	621	**690**	759	1,963	**2,181**	2,399	894	**941**	988	2,857	**3,122**	3,387
2030-31	1,337	**1,486**	1,635	636	**707**	778	1,973	**2,193**	2,413	873	**919**	965	2,846	**3,112**	3,378
2031-32	1,357	**1,508**	1,659	617	**685**	754	1,974	**2,193**	2,413	858	**903**	948	2,832	**3,096**	3,361
2032-33	1,337	**1,486**	1,635	623	**692**	761	1,960	**2,178**	2,396	867	**913**	959	2,827	**3,091**	3,355

Enrollment Projection Ranges (+/-3%) - October 1st Enrollment

School Year	PreK-5			6-8			PreK-8			Grades 9-12			Total All Grades PreK-12		
	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	3%
2022-23*		**1,527**			**735**			**2,262**			**1,021**			**3,283**	
2023-24	1,489	**1,535**	1,581	686	**707**	728	2,175	**2,242**	2,309	1,006	**1,037**	1,068	3,181	**3,279**	3,377
2024-25	1,471	**1,516**	1,561	692	**713**	734	2,163	**2,229**	2,295	980	**1,010**	1,040	3,143	**3,239**	3,335
2025-26	1,455	**1,500**	1,545	696	**718**	740	2,151	**2,218**	2,285	960	**990**	1,020	3,111	**3,208**	3,305
2026-27	1,453	**1,498**	1,543	702	**724**	746	2,155	**2,222**	2,289	922	**951**	980	3,077	**3,173**	3,269
2027-28	1,461	**1,506**	1,551	675	**696**	717	2,136	**2,202**	2,268	900	**928**	956	3,036	**3,130**	3,224
2028-29	1,460	**1,505**	1,550	673	**694**	715	2,133	**2,199**	2,265	894	**922**	950	3,027	**3,121**	3,215
2029-30	1,446	**1,491**	1,536	669	**690**	711	2,115	**2,181**	2,247	913	**941**	969	3,028	**3,122**	3,216
2030-31	1,441	**1,486**	1,531	686	**707**	728	2,127	**2,193**	2,259	891	**919**	947	3,018	**3,112**	3,206
2031-32	1,463	**1,508**	1,553	664	**685**	706	2,127	**2,193**	2,259	876	**903**	930	3,003	**3,096**	3,189
2032-33	1,441	**1,486**	1,531	671	**692**	713	2,112	**2,178**	2,244	886	**913**	940	2,998	**3,091**	3,184

Notes: Based on October 1st Enrollment. Enrollment data contains all resident students attending district schools except 100% homeschooled students and includes any non-resident students attending district

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

APPENDIX A

GRADE BY GRADE HISTORICAL & PROJECTED ENROLLMENT

Appendix Table 1

Entering Class to Births Ratio Worksheet - MSAD 6 Resident Students Attending - 2022-23 Best Fit Model

Oct 15-Oct 14 Births	Number Births	KG Year	KG Class Size	1st Grade Year	1st Class Size	Ratio 1st/Birth	Ratio 1st/K	Proj. 1st Grade	Net Preschool Migration
2006-07	336	10/12	281	10/13	277	0.824	0.986		-59
2007-08	272	10/13	277	10/14	273	1.004	0.986		1
2008-09	291	10/14	283	10/15	276	0.948	0.975		-15
2009-10	243	10/15	251	10/16	240	0.988	0.956		-3
2010-11	246	10/16	252	10/17	255	1.037	1.012		9
2011-12	282	10/17	268	10/18	260	0.922	0.970		-22
2012-13	253	10/18	264	10/19	268	1.059	1.015		15
2013-14	263	10/19	264	10/20	238	0.905	0.902		-25
2014-15	278	10/20	239	10/21	254	0.914	1.063		-24
2015-16	271	10/21	224	10/22	229	0.845	1.022		-42
2016-17	265	10/22	239	10/23		0.916	1.016	243	-22
2017-18	272	10/23		10/24		0.940		256	-16
2018-19	263	10/24		10/25		0.940		247	-16
2019-20	233	10/25		10/26		0.940		219	-14
2020-21	281	10/26		10/27		0.940		264	-17
2021-22*	252	10/27		10/28		0.940		237	-15
2022-23 est	257	10/28		10/29		0.940		241	-16
2023-24 est	257	10/29		10/30		0.940		241	-16
2024-25 est	257	10/30		10/31		0.940		241	-16
2025-26 est	257	10/31		10/32		0.940		241	-16
10yr Total (07-16)	2,735	10yr Total (12-21)	2,603	10yr Total (13-22)	2,570	0.940	0.987	Last 10yr	-16.5
10yr Avg (07-16)	274	10yr Avg (12-21)	260	10yr Avg (13-22)	257	0.945	0.987	Last 5yr	-19.6
5yr Avg (18-22)	260							Last 3yr	-30.3
5yr Max (18-22)	281							Proj.	-16.3
5yr Min (18-22)	233								
3 yr Avg (20-22)	255								

First Grade to Births Correlation Coefficients	
10 YEAR	0.532
9 YEAR	0.368
8 YEAR	0.351
7 YEAR	0.010
6 YEAR	-0.188
5 YEAR	-0.123
4 YEAR	-0.453
3 YEAR	0.602

First Grade to Kindergarten Correlation Coefficients	
10 YEAR	0.815
9 YEAR	0.780
8 YEAR	0.739
7 YEAR	0.593
6 YEAR	0.614
5 YEAR	0.620
4 YEAR	0.549
3 YEAR	0.218

Ratios	1st/Birth	1st/K
Avg last 10	0.945	0.989
Avg last 9	0.958	0.989
Avg last 8	0.952	0.989
Avg last 7	0.953	0.991
Avg last 6	0.947	0.997
Avg last 5	0.929	0.994
Avg last 4	0.931	1.001
Avg last 3	0.888	0.996
10yr Weighted	0.940	0.994
5yr Weighted	0.909	1.005
3yr Weighted	0.878	1.016

Notes: Based on October 1st Enrollment. Enrollment data contains all resident students attending district schools, excludes 100% homeschooled students. Enrollment data supplied by MDOE. Future births between 2022-23 and 2025-26 were based on the sum of average of births used to make each communities projections. *2022 birth data is preliminary and provisional from the Maine Department of Health and Human Services, Office of Data, Research, and Vital Statistics. The first grade from 2024-25 to 2032-33 was projected using the 10-year ratio of first grade to births, the 2023-24 first grade class sizes were based on the 2022-23 Kindergarten enrollment and the 3-year weighted ratio of first grade to Kindergarten.

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Table II-1 - Relationship of Entering First Grade Class Size to Resident Births
MSAD 6 - Resident Attending Enrollment

Birth Year (Oct. 15 - Oct. 14)	# of Resident Births	First Grade Year	Best Fit Model		
			Enrollment	Ratio 1st/Births	+/-%
2006-07	336	2013-14	277	0.824	-17.6%
2007-08	272	2014-15	273	1.004	0.4%
2008-09	291	2015-16	276	0.948	-5.2%
2009-10	243	2016-17	240	0.988	-1.2%
2010-11	246	2017-18	255	1.037	3.7%
2011-12	282	2018-19	260	0.922	-7.8%
2012-13	253	2019-20	268	1.059	5.9%
2013-14	263	2020-21	238	0.905	-9.5%
2014-15	278	2021-22	254	0.914	-8.6%
2015-16	271	2022-23*	229	0.845	-15.5%
2016-17	265	2023-24	243	0.917	-8.3%
2017-18	272	2024-25	256	0.941	-5.9%
2018-19	263	2025-26	247	0.939	-6.1%
2019-20	233	2026-27	219	0.940	-6.0%
2020-21	281	2027-28	264	0.940	-6.0%
2021-22*	252	2028-29	237	0.940	-6.0%
2022-23 est	257	2029-30	241	0.938	-6.2%
2023-24 est	257	2030-31	241	0.938	-6.2%
2024-25 est	257	2031-32	241	0.938	-6.2%
2025-26 est	257	2032-33	241	0.938	-6.2%
10-Yr Avg. (2006-07 to 2015-16)	274	**10-Yr Avg. (2013-14 to 2022-23)**	257	0.945	-5.5%
5-Yr Avg. (2006-07 to 2010-11)	278	**First 5-Yr Avg. (2013-14 to 2017-18)**	264	0.960	-4.0%
5-Yr Avg. Births (2011-12 to 2015-16)	269	**Most Recent 5-Yr Avg. (2018-19 to 2022-23)**	250	0.929	-7.1%
Births 3-Yr Avg. (2013-14 to 2015-16)	271	**Most Recent 3-Yr Avg. (2020-21 to 2022-23)**	240	0.888	-11.2%
Most Recent 10-Yr Avg. (2012-13 to 2021-22)	263	**Projected 10-Yr Avg. (2023-24 to 2032-33)**	**243**	0.937	-6.3%
Most Recent 5-Yr Avg. (2017-18 to 2021-22)	260				
Most Recent 3-Yr Avg. (2019-20 to 2021-22)	255				

Births: Maine Center for Disease Control and Prevention, Data, Research and Vital Statistics. 2022 births are preliminary and provisional; *Future births between 2022-23 and 2025-26 were based on the sum of the births used for each town's first grade enrollment projections. **Note:** Enrollment includes all resident students attending district schools. First to birth ratios shown here are based on the rounded first grade projection from the Entering Class to Births Ratio Worksheet. **Historical Enrollment Source:** 2012-2017 from MDOE, 2018-2022 from the district. All else calculated by Wandell Consulting.

Appendix Table 2

Enrollment Trends & Projections - MSAD 6 Attending Resident and Non-Resident Enrollment - 2022-23 Best Fit Model

School Year	PreK	K	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12
Historical																			
2012-13	16	281	281	298	308	295	294	303	305	312	307	303	270	304	1,773	920	2,693	1,184	**3,877**
2013-14	16	277	277	275	278	313	290	291	298	296	300	284	294	272	1,726	885	2,611	1,150	**3,761**
2014-15	32	283	273	267	275	271	312	295	288	296	282	312	276	289	1,713	879	2,592	1,159	**3,751**
2015-16	32	251	276	270	256	272	274	309	300	292	280	280	301	271	1,631	901	2,532	1,132	**3,664**
2016-17	32	252	240	282	261	265	276	278	301	291	275	269	249	297	1,608	870	2,478	1,090	**3,568**
2017-18	33	268	255	239	274	271	268	281	275	304	293	277	268	279	1,608	860	2,468	1,117	**3,585**
2018-19	48	264	260	247	232	269	274	254	274	276	298	292	279	267	1,594	804	2,398	1,136	**3,534**
2019-20	64	264	268	262	246	231	273	272	260	269	254	304	287	280	1,608	801	2,409	1,125	**3,534**
2020-21	62	239	238	244	245	227	233	264	271	253	260	264	302	300	1,488	788	2,276	1,126	**3,402**
2021-22	62	224	254	240	245	234	221	229	255	280	247	260	260	291	1,480	764	2,244	1,058	**3,302**
2022-23	64	239	229	256	235	246	241	226	237	268	273	242	258	240	1,510	731	2,241	1,013	**3,254**
Projected																			
2023-24	65	258	243	226	249	233	247	239	225	239	261	276	240	252	1,521	703	2,224	1,029	**3,253**
2024-25	57	250	256	239	219	247	234	245	237	227	233	263	273	234	1,502	709	2,211	1,003	**3,214**
2025-26	69	221	247	252	232	217	248	232	243	239	220	235	261	267	1,486	714	2,200	983	**3,183**
2026-27	62	267	219	243	245	230	218	245	230	245	233	223	233	255	1,484	720	2,204	944	**3,148**
2027-28	63	239	264	216	237	242	231	216	244	232	239	235	220	227	1,492	692	2,184	921	**3,105**
2028-29	63	244	237	260	210	234	243	229	215	246	226	241	233	215	1,491	690	2,181	915	**3,096**
2029-30	63	244	241	233	253	208	235	241	228	217	239	228	239	228	1,477	686	2,163	934	**3,097**
2030-31	63	244	241	238	227	250	209	233	240	230	211	242	226	233	1,472	703	2,175	912	**3,087**
2031-32	63	244	241	238	231	225	252	207	232	242	223	213	239	221	1,494	681	2,175	896	**3,071**
2032-33	63	244	241	238	231	229	226	249	205	234	235	226	211	234	1,472	688	2,160	906	**3,066**

Notes: Based on October 1st Enrollment. Enrollment data contains all attending resident students. Excludes any resident students attending school outside of district schools, and excludes any non-resident students attending district schools

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Appendix Table 3

MSAD 6 Attending Enrollment - Average Grade-to-Grade Survival Ratios - 2022-23 Best Fit Model

School Year	Grade											
	K-1		1-2		2-3		3-4		4-5		5-6	
	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-
10 Year Avg. (13-22)	0.989	-1.1%	0.985	-1.5%	0.972	-2.8%	0.991	-0.9%	1.006	0.6%	0.994	-0.6%
1st 5-Year Avg. (13-17)	0.983	-1.7%	0.990	-1.0%	0.966	-3.4%	1.011	1.1%	1.003	0.3%	1.006	0.6%
Last 5-Year Avg. (18-22)	0.994	-0.6%	0.981	-1.9%	0.977	-2.3%	0.972	-2.8%	1.008	0.8%	0.983	-1.7%
Last 4-Year Avg. (19-22)	1.000	0.0%	0.984	-1.6%	0.979	-2.1%	0.969	-3.1%	1.007	0.7%	0.991	-0.9%
Last 3-Year Avg. (20-22)	0.996	-0.4%	0.976	-2.4%	0.973	-2.7%	0.961	-3.9%	1.004	0.4%	0.991	-0.9%
Last 2-Year Avg. (21-22)	1.043	4.3%	1.008	0.8%	0.992	-0.8%	0.980	-2.0%	1.002	0.2%	1.003	0.3%

School Year	Grade											
	6-7		7-8		8-9		9-10		10-11		11-12	
	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-
10 Year Avg. (13-22)	0.995	-0.5%	1.000	0.0%	0.963	-3.7%	0.996	-0.4%	0.975	-2.5%	1.001	0.1%
1st 5-Year Avg. (13-17)	0.991	-0.9%	0.992	-0.8%	0.962	-3.8%	0.985	-1.5%	0.958	-4.2%	1.016	1.6%
Last 5-Year Avg. (18-22)	0.999	-0.1%	1.009	0.9%	0.964	-3.6%	1.007	0.7%	0.992	-0.8%	0.986	-1.4%
Last 4-Year Avg. (19-22)	1.005	0.5%	1.010	1.0%	0.960	-4.0%	1.010	1.0%	0.988	-1.2%	0.984	-1.6%
Last 3-Year Avg. (20-22)	0.999	-0.1%	1.019	1.9%	0.973	-2.7%	1.006	0.6%	0.990	-1.0%	0.977	-2.3%
Last 2-Year Avg. (21-22)	1.000	0.0%	1.042	4.2%	0.976	-2.4%	0.990	-1.0%	0.989	-1.1%	0.943	-5.7%

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Appendix Table B - Births by Town in MSAD 6
Resident Births from October to October

Birth Year	Town of Buxton	Town of Hollis	Town of Limington	Town of Standish	Total MSAD 6
2006-07	96	59	61	120	**336**
2007-08	89	45	42	96	**272**
2008-09	92	60	43	96	**291**
2009-10	79	45	49	70	**243**
2010-11	67	50	40	89	**246**
2011-12	102	53	46	81	**282**
2012-13	62	43	56	92	**253**
2013-14	79	42	44	98	**263**
2014-15	90	54	48	86	**278**
2015-16	89	33	44	105	**271**
2016-17	83	51	29	102	**265**
2017-18	86	50	48	88	**272**
2018-19	74	53	50	86	**263**
2019-20	59	49	35	90	**233**
2020-21	88	45	43	105	**281**
2021-22	73	48	34	97	**252**
Avg. Ann. 07-16	85	48	47	93	**274**
Avg. Ann. 13-22	78	47	43	95	**263**
Avg. Ann. 18-22	76	**49**	**42**	93	**260**
Avg. Ann. 20-22	**73**	47	37	**97**	**255**
Avg. Used in Projections by Town	**73**	**49**	**42**	**97**	**261**

Note: *2022 birth data is preliminary from the Maine Department of Health and Human Services, Office of Data, Research, and Vital Statistics.

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Appendix Table 4

Enrollment Trends & Projections - MSAD 6 Resident Enrollment - 2022-23 Best Fit Model

School Year	Resident Students Attending District Schools					Resident Students at NON-District Schools					Total ALL MSAD 6 Students				
	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12
Historical															
2012-13	1,773	920	2,693	1,184	**3,877**	5	2	7	6	**13**	1,778	922	2,700	1,190	**3,890**
2013-14	1,726	885	2,611	1,150	**3,761**	7	5	12	15	**27**	1,733	890	2,623	1,165	**3,788**
2014-15	1,713	879	2,592	1,159	**3,751**	17	19	36	39	**75**	1,730	898	2,628	1,198	**3,826**
2015-16	1,631	901	2,532	1,132	**3,664**	16	21	37	61	**98**	1,647	922	2,569	1,193	**3,762**
2016-17	1,608	870	2,478	1,090	**3,568**	17	13	30	68	**98**	1,625	883	2,508	1,158	**3,666**
2017-18	1,608	860	2,468	1,117	**3,585**	16	13	29	66	**95**	1,624	873	2,497	1,183	**3,680**
2018-19	1,594	804	2,398	1,136	**3,534**	20	20	40	87	**127**	1,614	824	2,438	1,223	**3,661**
2019-20	1,608	801	2,409	1,125	**3,534**	14	16	30	75	**105**	1,622	817	2,439	1,200	**3,639**
2020-21	1,488	788	2,276	1,126	**3,402**	11	21	32	62	**94**	1,499	809	2,308	1,188	**3,496**
2021-22	1,480	764	2,244	1,058	**3,302**	13	12	25	54	**79**	1,493	776	2,269	1,112	**3,381**
2022-23	1,510	731	2,241	1,013	**3,254**	17	13	30	53	**83**	1,527	744	2,271	1,066	**3,337**
Projected															
2023-24	1,521	703	2,224	1,029	**3,253**	14	14	28	56	**84**	1,535	717	2,252	1,085	**3,337**
2024-25	1,502	709	2,211	1,003	**3,214**	13	14	27	54	**81**	1,515	723	2,238	1,057	**3,295**
2025-26	1,486	714	2,200	983	**3,183**	13	14	27	53	**80**	1,499	728	2,227	1,036	**3,263**
2026-27	1,484	720	2,204	944	**3,148**	13	14	27	50	**77**	1,497	734	2,231	994	**3,225**
2027-28	1,492	692	2,184	921	**3,105**	14	14	28	50	**78**	1,506	706	2,212	971	**3,183**
2028-29	1,491	690	2,181	915	**3,096**	14	14	28	50	**78**	1,505	704	2,209	965	**3,174**
2029-30	1,477	686	2,163	934	**3,097**	14	14	28	50	**78**	1,491	700	2,191	984	**3,175**
2030-31	1,472	703	2,175	912	**3,087**	14	14	28	50	**78**	1,486	717	2,203	962	**3,165**
2031-32	1,494	681	2,175	896	**3,071**	14	13	27	49	**76**	1,508	694	2,202	945	**3,147**
2032-33	1,472	688	2,160	906	**3,066**	14	14	28	49	**77**	1,486	702	2,188	955	**3,143**

Notes: October 1st Enrollment data. Enrollment data contains all resident students but excludes 100% homeschooled students.

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Appendix Table 5
All MSAD 6 Resident Students - 2022-23 Best Fit Model

Enrollment Projection Ranges (+/-5% and +/-10%) - October 1st Enrollment

School Year	Grades PreK-5			Grades 6-8			Grades PreK-8			Grades 9-12			Total All Grades PreK-12		
	-10%	Proj.	+10%	-10%	Proj.	+10%	-10%	Proj.	+10%	-5%	Proj.	+5%	-Range	Proj.	+Range
2022-23*		1,527			744			2,271			1,066			3,337	
2023-24	1,382	**1,535**	1,689	645	**717**	789	2,027	**2,252**	2,478	1,031	**1,085**	1,139	3,058	**3,337**	3,617
2024-25	1,364	**1,515**	1,667	651	**723**	795	2,015	**2,238**	2,462	1,004	**1,057**	1,110	3,019	**3,295**	3,572
2025-26	1,349	**1,499**	1,649	655	**728**	801	2,004	**2,227**	2,450	984	**1,036**	1,088	2,988	**3,263**	3,538
2026-27	1,347	**1,497**	1,647	661	**734**	807	2,008	**2,231**	2,454	944	**994**	1,044	2,952	**3,225**	3,498
2027-28	1,355	**1,506**	1,657	635	**706**	777	1,990	**2,212**	2,434	922	**971**	1,020	2,912	**3,183**	3,454
2028-29	1,355	**1,505**	1,656	634	**704**	774	1,989	**2,209**	2,430	917	**965**	1,013	2,906	**3,174**	3,443
2029-30	1,342	**1,491**	1,640	630	**700**	770	1,972	**2,191**	2,410	935	**984**	1,033	2,907	**3,175**	3,443
2030-31	1,337	**1,486**	1,635	645	**717**	789	1,982	**2,203**	2,424	914	**962**	1,010	2,896	**3,165**	3,434
2031-32	1,357	**1,508**	1,659	625	**694**	763	1,982	**2,202**	2,422	898	**945**	992	2,880	**3,147**	3,414
2032-33	1,337	**1,486**	1,635	632	**702**	772	1,969	**2,188**	2,407	907	**955**	1,003	2,876	**3,143**	3,410

Enrollment Projection Ranges (+/-3%) - October 1st Enrollment

School Year	Grades PreK-5			Grades 6-8			Grades PreK-8			Grades 9-12			Total All Grades PreK-12		
	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	3%
2022-23*		1,527			744			2,271			1,066			3,337	
2023-24	1,489	**1,535**	1,581	695	**717**	739	2,184	**2,252**	2,320	1,052	**1,085**	1,118	3,236	**3,337**	3,438
2024-25	1,470	**1,515**	1,560	701	**723**	745	2,171	**2,238**	2,305	1,025	**1,057**	1,089	3,196	**3,295**	3,394
2025-26	1,454	**1,499**	1,544	706	**728**	750	2,160	**2,227**	2,294	1,005	**1,036**	1,067	3,165	**3,263**	3,361
2026-27	1,452	**1,497**	1,542	712	**734**	756	2,164	**2,231**	2,298	964	**994**	1,024	3,128	**3,225**	3,322
2027-28	1,461	**1,506**	1,551	685	**706**	727	2,146	**2,212**	2,278	942	**971**	1,000	3,088	**3,183**	3,278
2028-29	1,460	**1,505**	1,550	683	**704**	725	2,143	**2,209**	2,275	936	**965**	994	3,079	**3,174**	3,269
2029-30	1,446	**1,491**	1,536	679	**700**	721	2,125	**2,191**	2,257	954	**984**	1,014	3,079	**3,175**	3,271
2030-31	1,441	**1,486**	1,531	695	**717**	739	2,136	**2,203**	2,270	933	**962**	991	3,069	**3,165**	3,261
2031-32	1,463	**1,508**	1,553	673	**694**	715	2,136	**2,202**	2,268	917	**945**	973	3,053	**3,147**	3,241
2032-33	1,441	**1,486**	1,531	681	**702**	723	2,122	**2,188**	2,254	926	**955**	984	3,048	**3,143**	3,238

Notes: Enrollment data contains all resident students and excludes 100% homeschooled students.

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Appendix Table 6

Enrollment Trends & Projections - MSAD 6 Attending Enrollment (Resident & Non-Resident) - 2022-23 Best Fit Model

School Year	Resident Students Attending District Schools					NON-Resident Students at District Schools					Total ALL Attending Students				
	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12
Historical															
2012-13	1,773	920	2,693	1,184	**3,877**	2	1	3	1	**4**	1,775	921	2,696	1,185	**3,881**
2013-14	1,726	885	2,611	1,150	**3,761**	3	0	3	4	**7**	1,729	885	2,614	1,154	**3,768**
2014-15	1,713	879	2,592	1,159	**3,751**	5	1	6	10	**16**	1,718	880	2,598	1,169	**3,767**
2015-16	1,631	901	2,532	1,132	**3,664**	7	1	8	7	**15**	1,638	902	2,540	1,139	**3,679**
2016-17	1,608	870	2,478	1,090	**3,568**	11	4	15	5	**20**	1,619	874	2,493	1,095	**3,588**
2017-18	1,608	860	2,468	1,117	**3,585**	15	1	16	6	**22**	1,623	861	2,484	1,123	**3,607**
2018-19	1,594	804	2,398	1,136	**3,534**	13	5	18	10	**28**	1,607	809	2,416	1,146	**3,562**
2019-20	1,608	801	2,409	1,125	**3,534**	7	3	10	7	**17**	1,615	804	2,419	1,132	**3,551**
2020-21	1,488	788	2,276	1,126	**3,402**	17	5	22	6	**28**	1,505	793	2,298	1,132	**3,430**
2021-22	1,480	764	2,244	1,058	**3,302**	16	7	23	11	**34**	1,496	771	2,267	1,069	**3,336**
2022-23	1,510	731	2,241	1,013	**3,254**	17	4	21	8	**29**	1,527	735	2,262	1,021	**3,283**
Projected															
2023-24	1,521	703	2,224	1,029	**3,253**	14	4	18	8	**26**	1,535	707	2,242	1,037	**3,279**
2024-25	1,502	709	2,211	1,003	**3,214**	14	4	18	7	**25**	1,516	713	2,229	1,010	**3,239**
2025-26	1,486	714	2,200	983	**3,183**	14	4	18	7	**25**	1,500	718	2,218	990	**3,208**
2026-27	1,484	720	2,204	944	**3,148**	14	4	18	7	**25**	1,498	724	2,222	951	**3,173**
2027-28	1,492	692	2,184	921	**3,105**	14	4	18	7	**25**	1,506	696	2,202	928	**3,130**
2028-29	1,491	690	2,181	915	**3,096**	14	4	18	7	**25**	1,505	694	2,199	922	**3,121**
2029-30	1,477	686	2,163	934	**3,097**	14	4	18	7	**25**	1,491	690	2,181	941	**3,122**
2030-31	1,472	703	2,175	912	**3,087**	14	4	18	7	**25**	1,486	707	2,193	919	**3,112**
2031-32	1,494	681	2,175	896	**3,071**	14	4	18	7	**25**	1,508	685	2,193	903	**3,096**
2032-33	1,472	688	2,160	906	**3,066**	14	4	18	7	**25**	1,486	692	2,178	913	**3,091**

Notes: Based on October 1st Enrollment. Enrollment data contains all resident students attending district schools except 100% homeschooled students and includes any non-resident students attending district

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Appendix Table 7
MSAD 6 Attending Enrollment (Resident & Non-Resident) - 2022-23 Best Fit Model

Enrollment Projection Ranges (+/-5% and +/-10%) - October 1st Enrollment

School Year	PreK-5			6-8			PreK-8			Grades 9-12			Total All Grades PreK-12		
	-10%	Proj.	+10%	-10%	Proj.	+10%	-10%	Proj.	+10%	-5%	Proj.	+5%	-Range	Proj.	+Range
2022-23*		**1,527**			**735**			**2,262**			**1,021**			**3,283**	
2023-24	1,382	**1,535**	1,689	636	**707**	778	2,018	**2,242**	2,467	985	**1,037**	1,089	3,003	**3,279**	3,556
2024-25	1,364	**1,516**	1,668	642	**713**	784	2,006	**2,229**	2,452	960	**1,010**	1,061	2,966	**3,239**	3,513
2025-26	1,350	**1,500**	1,650	646	**718**	790	1,996	**2,218**	2,440	941	**990**	1,040	2,937	**3,208**	3,480
2026-27	1,348	**1,498**	1,648	652	**724**	796	2,000	**2,222**	2,444	903	**951**	999	2,903	**3,173**	3,443
2027-28	1,355	**1,506**	1,657	626	**696**	766	1,981	**2,202**	2,423	882	**928**	974	2,863	**3,130**	3,397
2028-29	1,355	**1,505**	1,656	625	**694**	763	1,980	**2,199**	2,419	876	**922**	968	2,856	**3,121**	3,387
2029-30	1,342	**1,491**	1,640	621	**690**	759	1,963	**2,181**	2,399	894	**941**	988	2,857	**3,122**	3,387
2030-31	1,337	**1,486**	1,635	636	**707**	778	1,973	**2,193**	2,413	873	**919**	965	2,846	**3,112**	3,378
2031-32	1,357	**1,508**	1,659	617	**685**	754	1,974	**2,193**	2,413	858	**903**	948	2,832	**3,096**	3,361
2032-33	1,337	**1,486**	1,635	623	**692**	761	1,960	**2,178**	2,396	867	**913**	959	2,827	**3,091**	3,355

Enrollment Projection Ranges (+/-3%) - October 1st Enrollment

School Year	PreK-5			6-8			PreK-8			Grades 9-12			Total All Grades PreK-12		
	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	3%
2022-23*		**1,527**			**735**			**2,262**			**1,021**			**3,283**	
2023-24	1,489	**1,535**	1,581	686	**707**	728	2,175	**2,242**	2,309	1,006	**1,037**	1,068	3,181	**3,279**	3,377
2024-25	1,471	**1,516**	1,561	692	**713**	734	2,163	**2,229**	2,295	980	**1,010**	1,040	3,143	**3,239**	3,335
2025-26	1,455	**1,500**	1,545	696	**718**	740	2,151	**2,218**	2,285	960	**990**	1,020	3,111	**3,208**	3,305
2026-27	1,453	**1,498**	1,543	702	**724**	746	2,155	**2,222**	2,289	922	**951**	980	3,077	**3,173**	3,269
2027-28	1,461	**1,506**	1,551	675	**696**	717	2,136	**2,202**	2,268	900	**928**	956	3,036	**3,130**	3,224
2028-29	1,460	**1,505**	1,550	673	**694**	715	2,133	**2,199**	2,265	894	**922**	950	3,027	**3,121**	3,215
2029-30	1,446	**1,491**	1,536	669	**690**	711	2,115	**2,181**	2,247	913	**941**	969	3,028	**3,122**	3,216
2030-31	1,441	**1,486**	1,531	686	**707**	728	2,127	**2,193**	2,259	891	**919**	947	3,018	**3,112**	3,206
2031-32	1,463	**1,508**	1,553	664	**685**	706	2,127	**2,193**	2,259	876	**903**	930	3,003	**3,096**	3,189
2032-33	1,441	**1,486**	1,531	671	**692**	713	2,112	**2,178**	2,244	886	**913**	940	2,998	**3,091**	3,184

Notes: Based on October 1st Enrollment. Enrollment data contains all resident students attending district schools except 100% homeschooled students and includes any non-resident students attending district

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Appendix Table 9

Enrollment Trends & Projections - MSAD 6 Resident Attending Enrollment by Town - 2022-23 Best Fit Model

School Year	Town of Buxton					Town of Hollis					Town of Limington					Town of Standish				
	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12
Historical																				
2012-13	579	280	859	358	**1,217**	344	147	491	177	**668**	254	128	382	179	**561**	596	365	961	470	**1,431**
2013-14	569	287	856	346	**1,202**	328	156	484	169	**653**	252	101	353	172	**525**	577	341	918	463	**1,381**
2014-15	539	284	823	356	**1,179**	340	166	506	179	**685**	246	128	374	158	**532**	588	301	889	466	**1,355**
2015-16	521	296	817	339	**1,156**	308	186	494	188	**682**	244	115	359	161	**520**	558	304	862	444	**1,306**
2016-17	496	290	786	343	**1,129**	300	185	485	185	**670**	251	106	357	133	**490**	561	289	850	429	**1,279**
2017-18	511	293	804	356	**1,160**	276	193	469	214	**683**	268	93	361	137	**498**	553	281	834	410	**1,244**
2018-19	479	270	749	376	**1,125**	282	171	453	234	**687**	276	107	383	145	**528**	557	256	813	381	**1,194**
2019-20	482	245	727	376	**1,103**	290	170	460	241	**701**	275	121	396	128	**524**	561	265	826	380	**1,206**
2020-21	448	243	691	354	**1,045**	259	144	403	243	**646**	263	130	393	159	**552**	518	271	789	370	**1,159**
2021-22	443	234	677	338	**1,015**	275	123	398	218	**616**	255	125	380	155	**535**	507	282	789	347	**1,136**
2022-23	453	221	674	311	**985**	278	122	400	208	**608**	271	127	398	161	**559**	508	261	769	333	**1,102**
Projected																				
2023-24	445	206	651	304	**955**	297	122	419	193	**612**	275	126	401	176	**577**	508	249	757	356	**1,113**
2024-25	436	196	632	287	**919**	295	137	432	169	**601**	262	132	394	181	**575**	505	247	752	361	**1,113**
2025-26	424	197	621	281	**902**	296	132	428	161	**589**	255	140	395	178	**573**	514	246	760	362	**1,122**
2026-27	416	196	612	272	**884**	300	135	435	152	**587**	249	137	386	177	**563**	523	252	775	344	**1,119**
2027-28	403	201	604	245	**849**	308	123	431	164	**595**	243	123	366	185	**551**	539	243	782	334	**1,116**
2028-29	397	202	599	238	**837**	306	126	432	173	**605**	238	121	359	183	**542**	548	245	793	325	**1,118**
2029-30	388	194	582	250	**832**	305	134	439	164	**603**	228	125	353	187	**540**	556	237	793	335	**1,128**
2030-31	386	184	570	242	**812**	301	147	448	163	**611**	217	131	348	184	**532**	568	244	812	327	**1,139**
2031-32	399	167	566	243	**809**	301	144	445	164	**609**	219	124	343	170	**513**	573	247	820	323	**1,143**
2032-33	387	170	557	247	**804**	305	140	445	165	**610**	214	118	332	171	**503**	567	263	830	329	**1,159**

Notes: Based on October 1st Enrollment. Enrollment data contains all resident

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Appendix Table 10

Enrollment Trends & Projections - MSAD 6 All Residents (Attending and Not Attending) Enrollment by Town - 2022-23 Best Fit Model

School Year	Town of Buxton					Town of Hollis					Town of Limington					Town of Standish				
	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12
Historical																				
2012-13	580	281	861	358	**1,219**	344	147	491	181	**672**	255	129	384	180	**564**	599	365	964	471	**1,435**
2013-14	571	288	859	349	**1,208**	329	156	485	172	**657**	252	102	354	174	**528**	581	344	925	470	**1,395**
2014-15	541	287	828	365	**1,193**	343	167	510	188	**698**	250	131	381	163	**544**	596	313	909	482	**1,391**
2015-16	526	305	831	355	**1,186**	308	186	494	196	**690**	247	118	365	164	**529**	566	313	879	478	**1,357**
2016-17	500	295	795	365	**1,160**	302	187	489	191	**680**	252	106	358	141	**499**	571	295	866	461	**1,327**
2017-18	519	297	816	376	**1,192**	278	193	471	226	**697**	271	94	365	142	**507**	556	289	845	439	**1,284**
2018-19	487	279	766	406	**1,172**	287	175	462	249	**711**	276	109	385	156	**541**	564	261	825	412	**1,237**
2019-20	485	255	740	411	**1,151**	294	173	467	251	**718**	275	121	396	137	**533**	568	268	836	401	**1,237**
2020-21	450	255	705	378	**1,083**	262	150	412	258	**670**	267	131	398	168	**566**	520	273	793	384	**1,177**
2021-22	449	237	686	356	**1,042**	277	125	402	235	**637**	256	127	383	164	**547**	511	287	798	357	**1,155**
2022-23	459	227	686	331	**1,017**	279	126	405	220	**625**	272	128	400	171	**571**	517	263	780	344	**1,124**
Projected																				
2023-24	449	213	662	325	**987**	300	125	425	206	**631**	277	127	404	186	**590**	513	252	765	368	**1,133**
2024-25	440	202	642	307	**949**	298	141	439	180	**619**	263	133	396	192	**588**	510	250	760	373	**1,133**
2025-26	428	203	631	301	**932**	299	136	435	172	**607**	256	141	397	188	**585**	519	249	768	374	**1,142**
2026-27	420	202	622	291	**913**	303	139	442	162	**604**	250	138	388	187	**575**	528	255	783	355	**1,138**
2027-28	407	208	615	262	**877**	311	126	437	175	**612**	244	124	368	196	**564**	545	246	791	345	**1,136**
2028-29	401	209	610	255	**865**	309	129	438	184	**622**	239	122	361	194	**555**	554	248	802	336	**1,138**
2029-30	392	200	592	267	**859**	308	138	446	175	**621**	229	126	355	198	**553**	562	240	802	346	**1,148**
2030-31	390	190	580	259	**839**	304	151	455	174	**629**	218	132	350	195	**545**	574	247	821	338	**1,159**
2031-32	403	172	575	260	**835**	304	148	452	175	**627**	220	125	345	180	**525**	579	250	829	334	**1,163**
2032-33	391	176	567	264	**831**	308	144	452	176	**628**	215	119	334	181	**515**	573	266	839	340	**1,179**

Notes: Based on October 1st Enrollment. Enrollment data contains all resident

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Appendix Table 1.1

Entering Class to Births Ratio Worksheet - Town of Buxton - MSAD 6 Resident Students Attending - 2022-23 Best Fit Model

Oct 15-Oct 14 Births	Number Births	KG Year	KG Class Size	1st Grade Year	1st Class Size	Ratio 1st/Birth	Ratio 1st/K	Proj. 1st Grade	Net Preschool Migration
2006-07	96	10/12	80	10/13	82	0.854	1.025		-14
2007-08	89	10/13	91	10/14	88	0.989	0.967		-1
2008-09	92	10/14	90	10/15	94	1.022	1.044		2
2009-10	79	10/15	81	10/16	71	0.899	0.877		-8
2010-11	67	10/16	73	10/17	78	1.164	1.068		11
2011-12	102	10/17	83	10/18	86	0.843	1.036		-16
2012-13	62	10/18	64	10/19	66	1.065	1.031		4
2013-14	79	10/19	70	10/20	64	0.810	0.914		-15
2014-15	90	10/20	82	10/21	80	0.889	0.976		-10
2015-16	89	10/21	75	10/22	73	0.820	0.973		-16
2016-17	83	10/22	68	10/23		0.819	1.000	68	-15
2017-18	86	10/23		10/24		0.840		72	-14
2018-19	74	10/24		10/25		0.840		62	-12
2019-20	59	10/25		10/26		0.840		50	-9
2020-21	88	10/26		10/27		0.840		74	-14
2021-22*	73	10/27		10/28		0.840		61	-12
2022-23 est	73	10/28		10/29		0.840		62	-12
2023-24 est	73	10/29		10/30		0.840		62	-12
2024-25 est	73	10/30		10/31		0.840		62	-12
2025-26 est	73	10/31		10/32		0.840		62	-12
10yr Total (07-16)	845	10yr Total (12-21)	789	10yr Total (13-22)	782	0.925	0.991	**Last 10yr**	-6.3
10yr Avg (07-16)	85	10yr Avg (12-21)	79	10yr Avg (13-22)	78	0.936	0.991	**Last 5yr**	-10.6
5yr Avg (18-22)	76							**Last 3yr**	-13.7
5yr Max (18-22)	88							**Proj.**	-12.3
5yr Min (18-22)	59								
3 yr Avg (20-22)	73								

First Grade to Births Correlation Coefficients	
10 YEAR	0.654
9 YEAR	0.650
8 YEAR	0.642
7 YEAR	0.644
6 YEAR	0.643
5 YEAR	0.853
4 YEAR	0.723
3 YEAR	0.933

First Grade to Kindergarten Correlation Coefficients	
10 YEAR	0.871
9 YEAR	0.874
8 YEAR	0.856
7 YEAR	0.753
6 YEAR	0.879
5 YEAR	0.923
4 YEAR	0.905
3 YEAR	0.986

Ratios	1st/Birth	1st/K
Avg last 10	0.936	0.991
Avg last 9	0.945	0.987
Avg last 8	0.939	0.990
Avg last 7	0.927	0.982
Avg last 6	0.932	1.000
Avg last 5	0.885	0.986
Avg last 4	0.896	0.974
Avg last 3	0.840	0.954
10yr Weighted	0.918	0.985
5yr Weighted	0.871	0.974
3yr Weighted	0.841	0.964

Notes: Based on October 1st Enrollment. Enrollment data contains all resident students attending district schools, excludes 100% homeschooled students. Enrollment data supplied by MDOE and MSAD 6. Future births between 2022-23 and 2025-26 were based on the 3-year average of births (2019-20 to 2021-22). *2022 birth data is preliminary and provisional from the Maine Department of Health and Human Services, Office of Data, Research, and Vital Statistics. The first grade from 2024-25 to 2032-33 was projected using the 3-year ratio of first grade to births, the 2023-24 first grade class size was based on the 2022-23 Kindergarten enrollment.

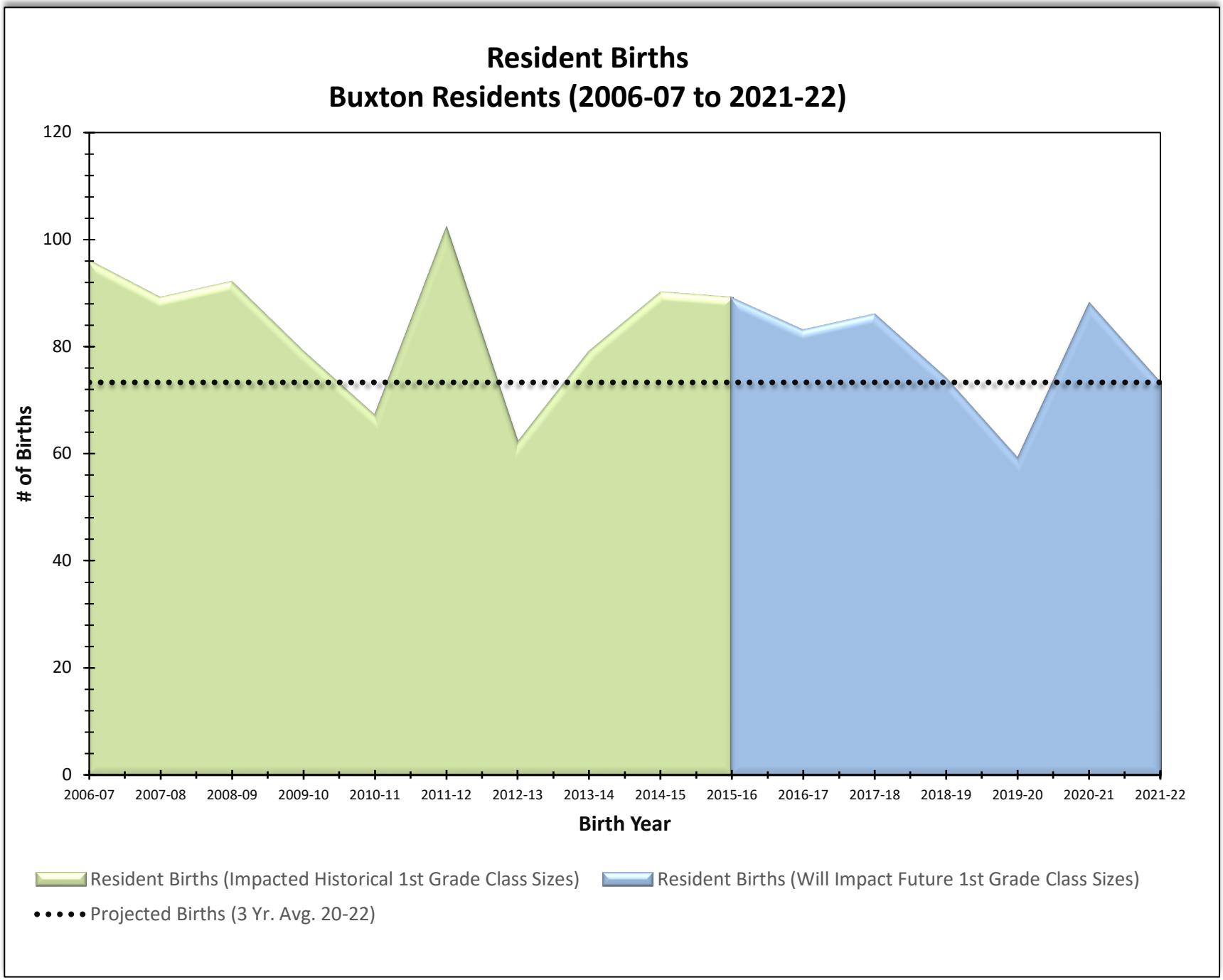
2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

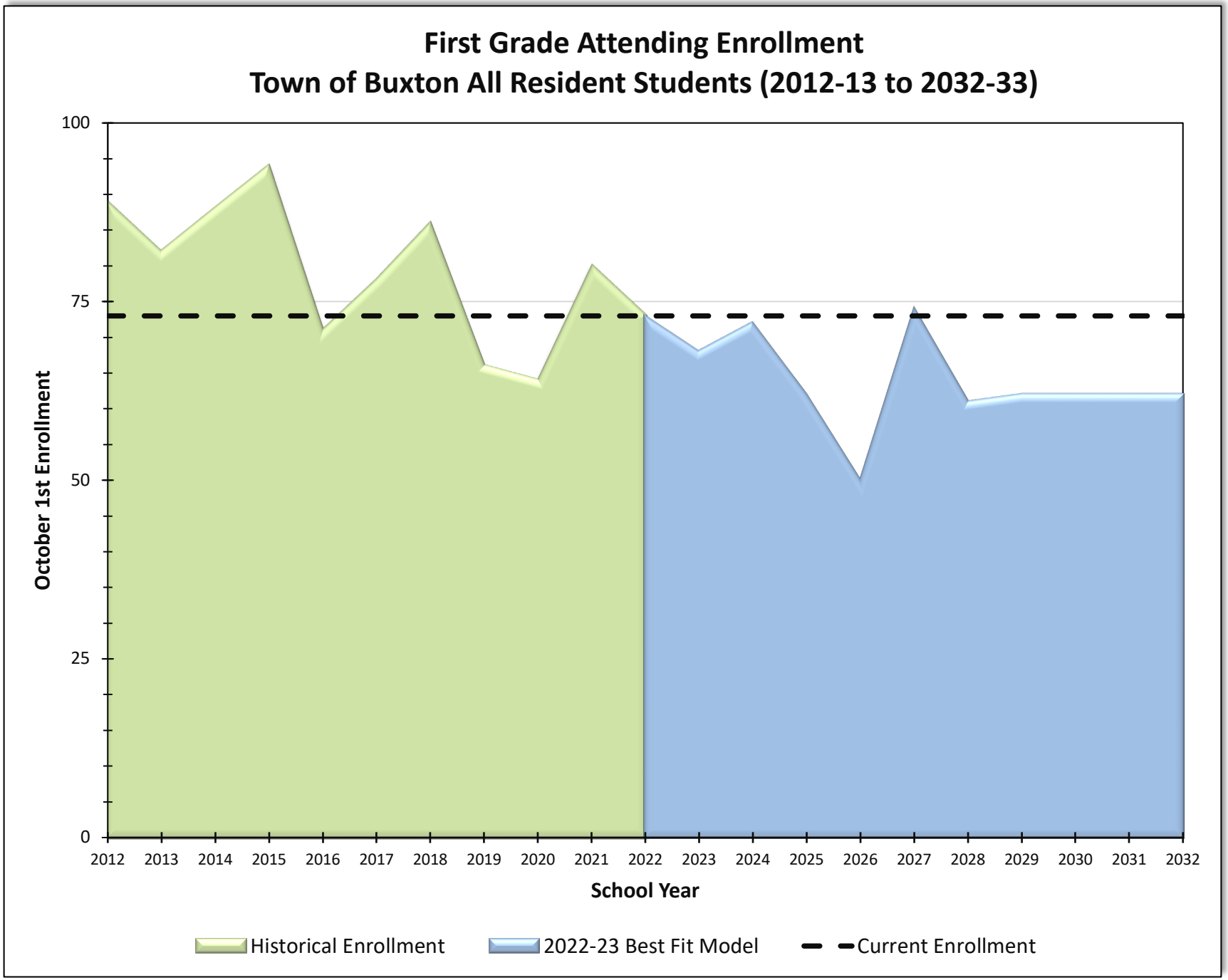
Data produced by Wandell Consulting

Table II-1-1 - Relationship of Entering First Grade Class Size to Resident Births
Town of Buxton - MSAD 6 - Resident Attending Enrollment

Birth Year (Oct. 15 - Oct. 14)	# of Resident Births	First Grade Year	Best Fit Model		
			Enrollment	Ratio 1st/Births	+/-%
2006-07	96	2013-14	82	0.854	-14.6%
2007-08	89	2014-15	88	0.989	-1.1%
2008-09	92	2015-16	94	1.022	2.2%
2009-10	79	2016-17	71	0.899	-10.1%
2010-11	67	2017-18	78	1.164	16.4%
2011-12	102	2018-19	86	0.843	-15.7%
2012-13	62	2019-20	66	1.065	6.5%
2013-14	79	2020-21	64	0.810	-19.0%
2014-15	90	2021-22	80	0.889	-11.1%
2015-16	89	2022-23*	73	0.820	-18.0%
2016-17	83	2023-24	68	0.819	-18.1%
2017-18	86	2024-25	72	0.840	-16.0%
2018-19	74	2025-26	62	0.840	-16.0%
2019-20	59	2026-27	50	0.840	-16.0%
2020-21	88	2027-28	74	0.840	-16.0%
2021-22*	73	2028-29	61	0.840	-16.0%
2022-23 est	73	2029-30	62	0.840	-16.0%
2023-24 est	73	2030-31	62	0.840	-16.0%
2024-25 est	73	2031-32	62	0.840	-16.0%
2025-26 est	73	2032-33	62	0.840	-16.0%
10-Yr Avg. (2006-07 to 2015-16)	85	**10-Yr Avg. (2013-14 to 2022-23)**	78	0.935	-6.5%
5-Yr Avg. (2006-07 to 2010-11)	85	**First 5-Yr Avg. (2013-14 to 2017-18)**	83	0.986	-1.4%
5-Yr Avg. Births (2011-12 to 2015-16)	84	**Most Recent 5-Yr Avg. (2018-19 to 2022-23)**	74	0.885	-11.5%
Births 3-Yr Avg. (2013-14 to 2015-16)	86	**Most Recent 3-Yr Avg. (2020-21 to 2022-23)**	72	0.840	-16.0%
Most Recent 10-Yr Avg. (2012-13 to 2021-22)	78	**Projected 10-Yr Avg. (2023-24 to 2032-33)**	**63**	0.838	-16.2%
Most Recent 5-Yr Avg. (2017-18 to 2021-22)	76				
Most Recent 3-Yr Avg. (2019-20 to 2021-22)	73				

Births: Maine Center for Disease Control and Prevention, Data, Research and Vital Statistics. 2022 births are preliminary and provisional; *Future births between 2022-23 and 2025-26 were based on 3-year average of births between 2019-20 and 2021-22. **Note:** Enrollment includes all resident students attending district schools. First to birth ratios shown here are based on the rounded first grade projection from the Entering Class to Births Ratio Worksheet. **Historical Enrollment Source:** 2012-2017 from MDOE, 2018-2022 from the district. All else calculated by Wandell Consulting.


Resident Births
Buxton Residents (2006-07 to 2021-22)
120
100
80
60
40
20
0
# of Births
2006-07
2007-08
2008-09
2009-10
2010-11
2011-12
2012-13
2013-14
2014-15
2015-16
2016-17
2017-18
2018-19
2019-20
2020-21
2021-22
Birth Year
Resident Births (Impacted Historical 1st Grade Class Sizes)
Resident Births (Will Impact Future 1st Grade Class Sizes)
Projected Births (3 Yr. Avg. 20-22)


First Grade Attending Enrollment
Town of Buxton All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
100
75
50
25
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

Appendix Table 2.1

Enrollment Trends & Projections - Town of Buxton - MSAD 6 Attending Resident and Non-Resident Enrollment - 2022-23 Best Fit Model

School Year	PreK	K	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12
Historical																			
2012-13	0	80	89	108	107	102	93	97	97	86	84	97	71	106	579	280	859	358	**1,217**
2013-14	0	91	82	89	98	111	98	92	99	96	86	81	100	79	569	287	856	346	**1,202**
2014-15	0	90	88	72	90	92	107	92	94	98	90	90	73	103	539	284	823	356	**1,179**
2015-16	0	81	94	79	82	87	98	110	90	96	89	87	89	74	521	296	817	339	**1,156**
2016-17	1	73	71	99	81	84	87	96	105	89	88	86	79	90	496	290	786	343	**1,129**
2017-18	0	83	78	77	100	85	88	89	96	108	85	91	93	87	511	293	804	356	**1,160**
2018-19	0	64	86	68	79	98	84	83	87	100	102	88	93	93	479	270	749	376	**1,125**
2019-20	17	70	66	83	69	79	98	77	86	82	89	102	89	96	482	245	727	376	**1,103**
2020-21	16	82	64	63	83	64	76	92	74	77	74	92	96	92	448	243	691	354	**1,045**
2021-22	14	75	80	70	64	79	61	69	85	80	71	80	96	91	443	234	677	338	**1,015**
2022-23	16	68	73	81	69	66	80	62	70	89	76	63	82	90	453	221	674	311	**985**
Projected																			
2023-24	14	76	68	73	82	67	65	76	60	70	82	76	63	83	445	206	651	304	**955**
2024-25	11	65	72	68	74	80	66	62	74	60	65	82	76	64	436	196	632	287	**919**
2025-26	17	52	62	73	69	72	79	63	60	74	55	65	83	78	424	197	621	281	**902**
2026-27	14	77	50	63	73	68	71	75	61	60	68	55	65	84	416	196	612	272	**884**
2027-28	14	64	74	50	63	72	66	68	72	61	55	68	56	66	403	201	604	245	**849**
2028-29	14	65	61	74	50	62	71	63	66	73	57	55	69	57	397	202	599	238	**837**
2029-30	14	65	62	62	75	49	61	67	61	66	67	57	56	70	388	194	582	250	**832**
2030-31	14	65	62	62	62	73	48	58	65	61	61	67	57	57	386	184	570	242	**812**
2031-32	14	65	62	62	63	61	72	46	56	65	57	61	67	58	399	167	566	243	**809**
2032-33	14	65	62	62	63	61	60	69	45	56	60	57	61	69	387	170	557	247	**804**

Notes: Based on October 1st Enrollment. Enrollment data contains all attending resident students. Excludes any resident students attending school outside of district schools, and excludes any non-resident students attending district schools

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Appendix Table 4.1

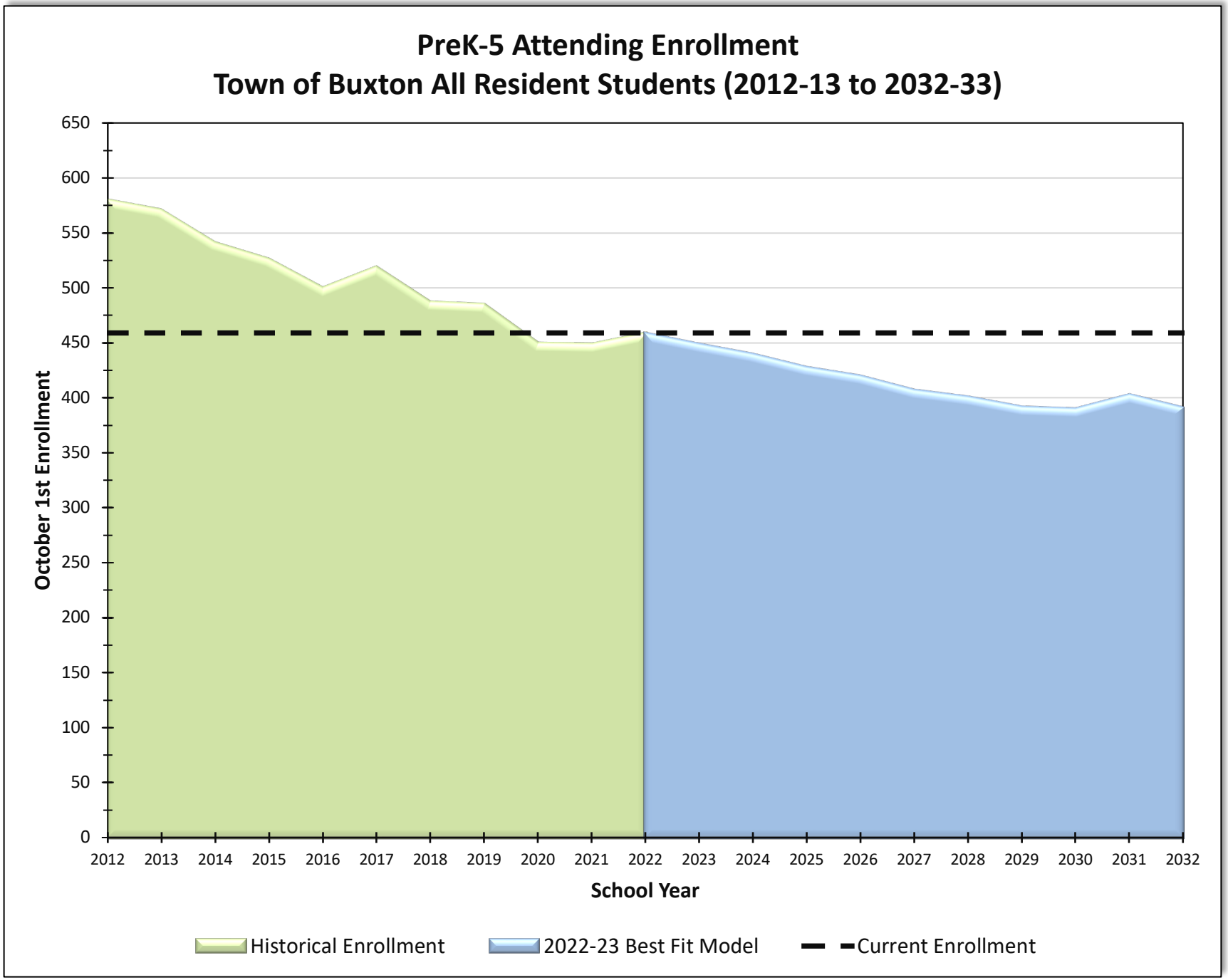
Enrollment Trends & Projections - Town of Buxton - MSAD 6 Resident Enrollment - 2022-23 Best Fit Model

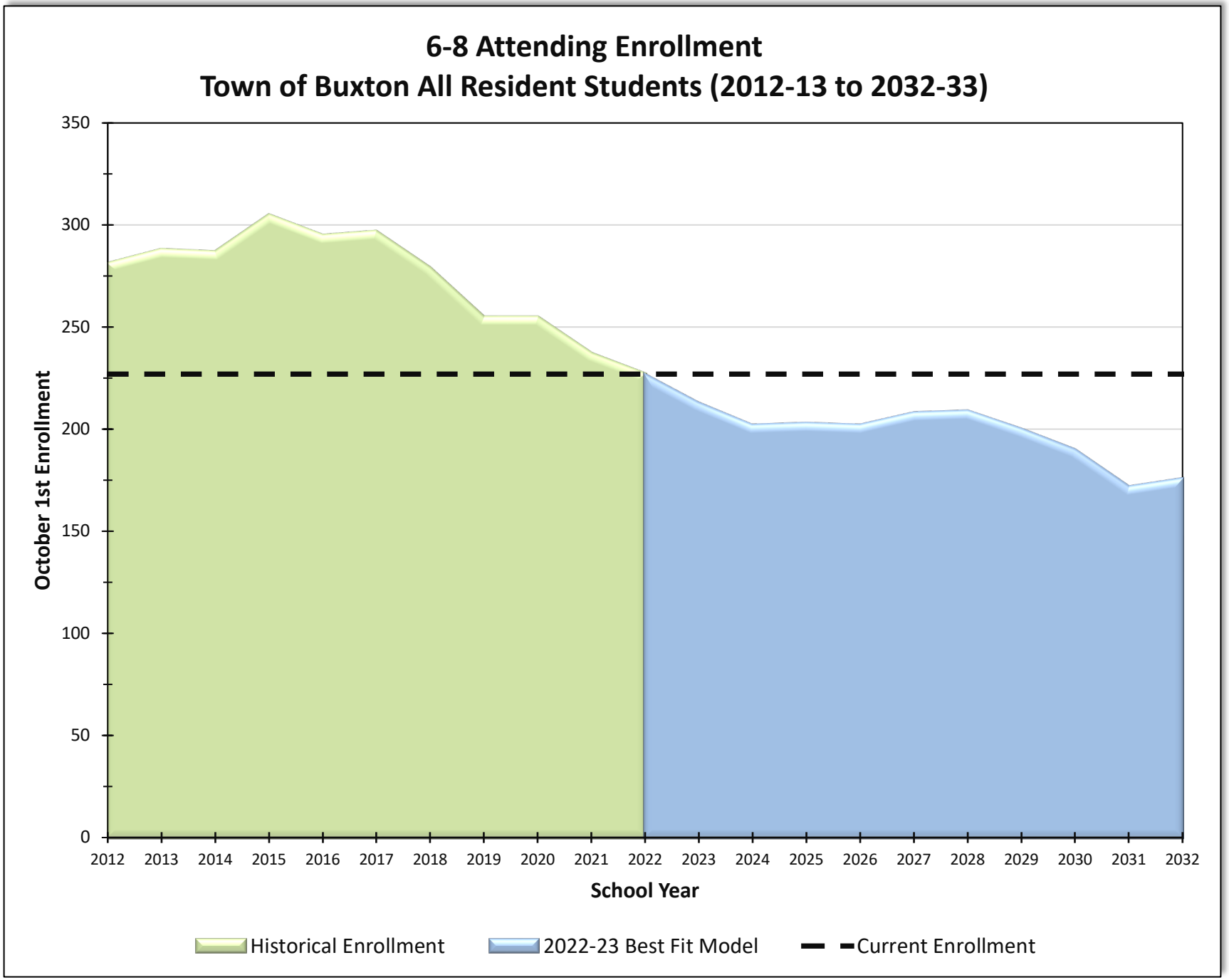
School Year	Resident Students Attending District Schools					Resident Students at NON-District Schools					Total ALL Buxton Students				
	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12
Historical															
2012-13	579	280	859	358	**1,217**	1	1	2	0	**2**	580	281	861	358	**1,219**
2013-14	569	287	856	346	**1,202**	2	1	3	3	**6**	571	288	859	349	**1,208**
2014-15	539	284	823	356	**1,179**	2	3	5	9	**14**	541	287	828	365	**1,193**
2015-16	521	296	817	339	**1,156**	5	9	14	16	**30**	526	305	831	355	**1,186**
2016-17	496	290	786	343	**1,129**	4	5	9	22	**31**	500	295	795	365	**1,160**
2017-18	511	293	804	356	**1,160**	8	4	12	20	**32**	519	297	816	376	**1,192**
2018-19	479	270	749	376	**1,125**	8	9	17	30	**47**	487	279	766	406	**1,172**
2019-20	482	245	727	376	**1,103**	3	10	13	35	**48**	485	255	740	411	**1,151**
2020-21	448	243	691	354	**1,045**	2	12	14	24	**38**	450	255	705	378	**1,083**
2021-22	443	234	677	338	**1,015**	6	3	9	18	**27**	449	237	686	356	**1,042**
2022-23	453	221	674	311	**985**	6	6	12	20	**32**	459	227	686	331	**1,017**
Projected															
2023-24	445	206	651	304	**955**	4	7	11	21	**32**	449	213	662	325	**987**
2024-25	436	196	632	287	**919**	4	6	10	20	**30**	440	202	642	307	**949**
2025-26	424	197	621	281	**902**	4	6	10	20	**30**	428	203	631	301	**932**
2026-27	416	196	612	272	**884**	4	6	10	19	**29**	420	202	622	291	**913**
2027-28	403	201	604	245	**849**	4	7	11	17	**28**	407	208	615	262	**877**
2028-29	397	202	599	238	**837**	4	7	11	17	**28**	401	209	610	255	**865**
2029-30	388	194	582	250	**832**	4	6	10	17	**27**	392	200	592	267	**859**
2030-31	386	184	570	242	**812**	4	6	10	17	**27**	390	190	580	259	**839**
2031-32	399	167	566	243	**809**	4	5	9	17	**26**	403	172	575	260	**835**
2032-33	387	170	557	247	**804**	4	6	10	17	**27**	391	176	567	264	**831**

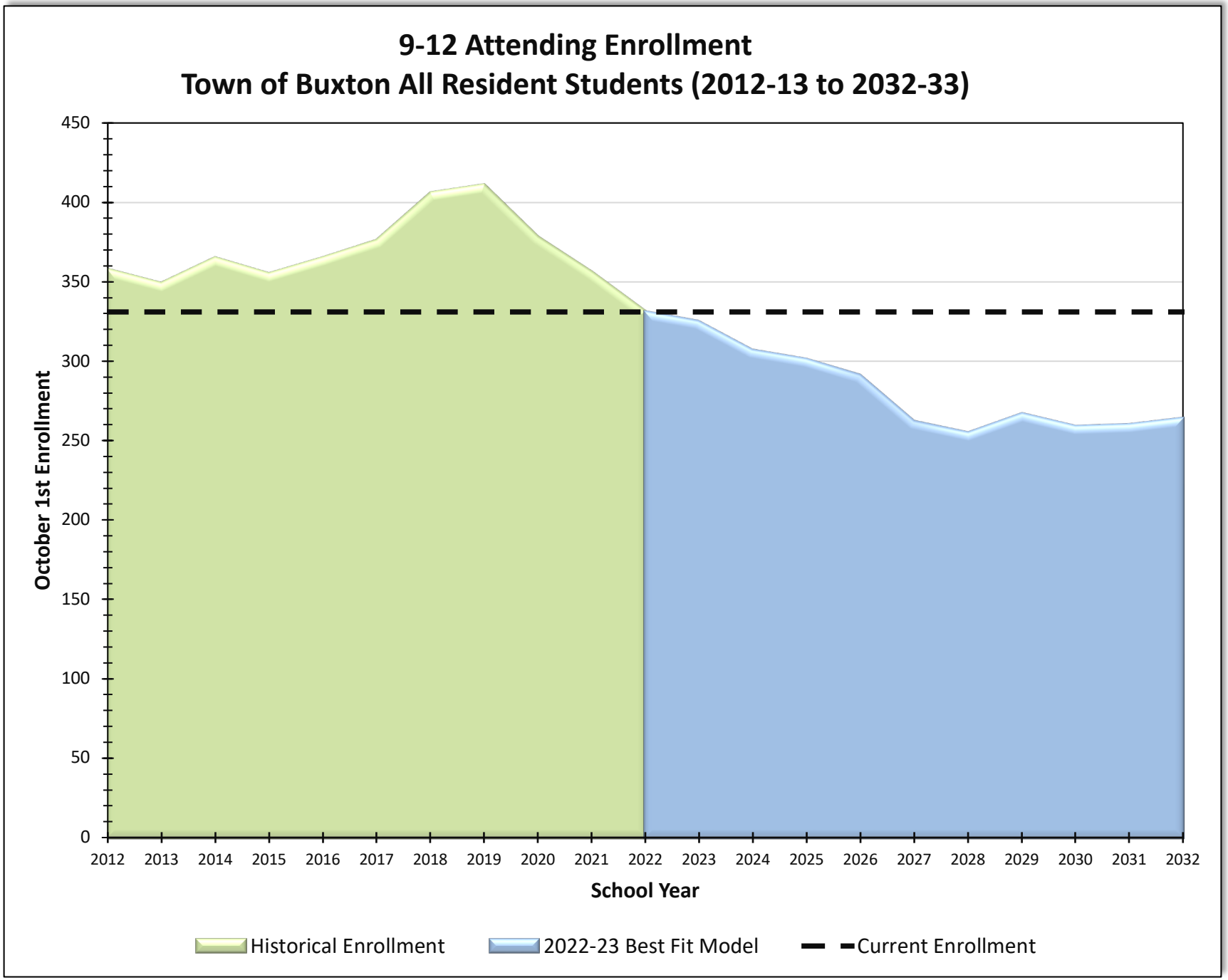
Notes: October 1st Enrollment data. Enrollment data contains all resident students but excludes 100% homeschooled students.

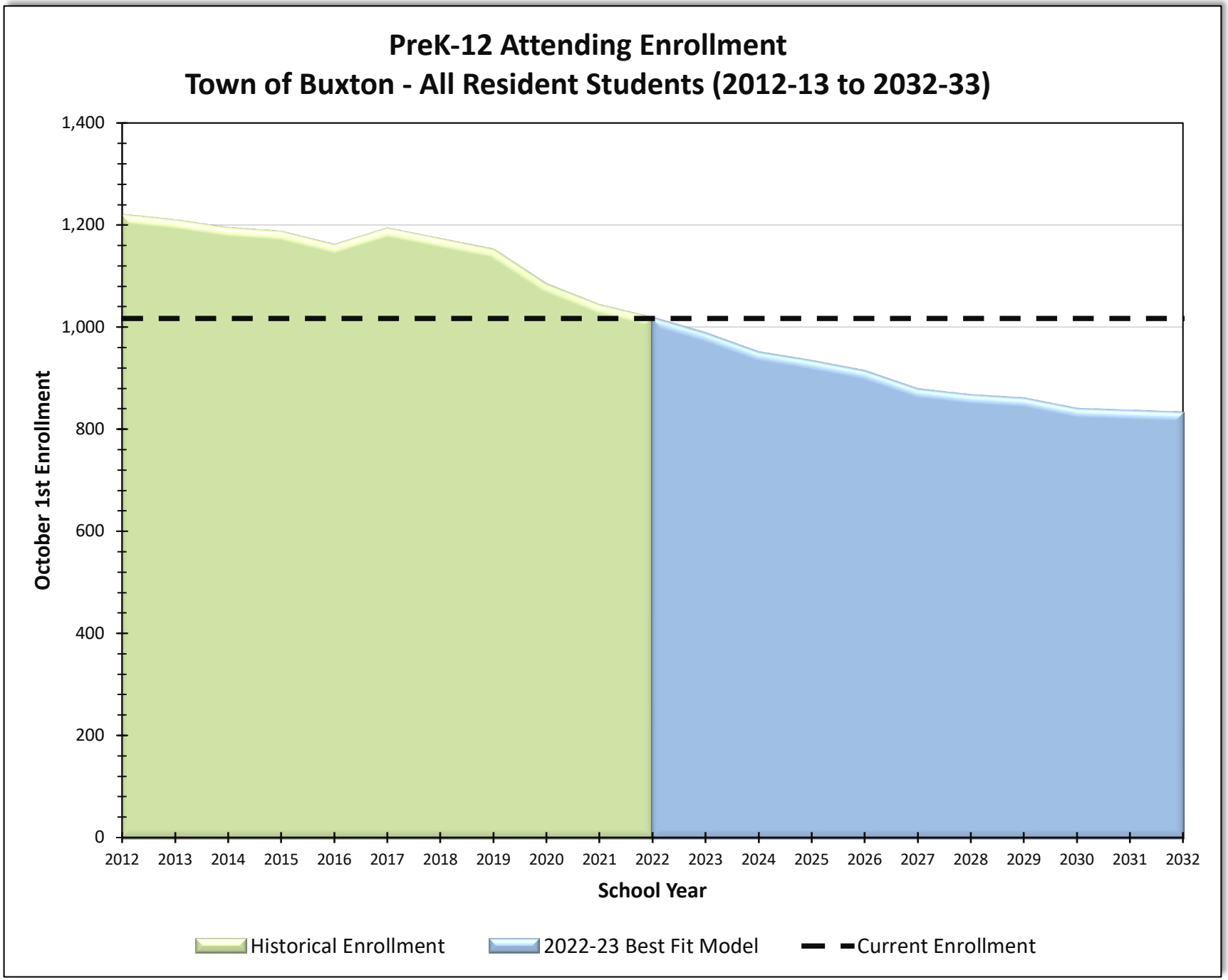
2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting


PreK-5 Attending Enrollment
Town of Buxton All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
650
600
550
500
450
400
350
300
250
200
150
100
50
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment


6-8 Attending Enrollment
Town of Buxton All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
350
300
250
200
150
100
50
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment


9-12 Attending Enrollment
Town of Buxton All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
450
400
350
300
250
200
150
100
50
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment


PreK-12 Attending Enrollment
Town of Buxton - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
1,400
1,200
1,000
800
600
400
200
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

Appendix Table 5.1
Town of Buxton - MSAD 6 Resident Students - 2022-23 Best Fit Model

Enrollment Projection Ranges (+/-5% and +/-10%) - October 1st Enrollment

School Year	Grades PreK-5			Grades 6-8			Grades PreK-8			Grades 9-12			Total All Grades PreK-12		
	-10%	Proj.	+10%	-10%	Proj.	+10%	-10%	Proj.	+10%	-5%	Proj.	+5%	-Range	Proj.	+Range
2022-23*		**459**			**227**			**686**			**331**			**1,017**	
2023-24	404	**449**	494	192	**213**	234	596	**662**	728	309	**325**	341	905	**987**	1,069
2024-25	396	**440**	484	182	**202**	222	578	**642**	706	292	**307**	322	870	**949**	1,028
2025-26	385	**428**	471	183	**203**	223	568	**631**	694	286	**301**	316	854	**932**	1,010
2026-27	378	**420**	462	182	**202**	222	560	**622**	684	276	**291**	306	836	**913**	990
2027-28	366	**407**	448	187	**208**	229	553	**615**	677	249	**262**	275	802	**877**	952
2028-29	361	**401**	441	188	**209**	230	549	**610**	671	242	**255**	268	791	**865**	939
2029-30	353	**392**	431	180	**200**	220	533	**592**	651	254	**267**	280	787	**859**	931
2030-31	351	**390**	429	171	**190**	209	522	**580**	638	246	**259**	272	768	**839**	910
2031-32	363	**403**	443	155	**172**	189	518	**575**	632	247	**260**	273	765	**835**	905
2032-33	352	**391**	430	158	**176**	194	510	**567**	624	251	**264**	277	761	**831**	901

Enrollment Projection Ranges (+/-3%) - October 1st Enrollment

School Year	Grades PreK-5			Grades 6-8			Grades PreK-8			Grades 9-12			Total All Grades PreK-12		
	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	3%
2022-23*		**459**			**227**			**686**			**331**			**1,017**	
2023-24	436	**449**	462	207	**213**	219	643	**662**	681	315	**325**	335	958	**987**	1,016
2024-25	427	**440**	453	196	**202**	208	623	**642**	661	298	**307**	316	921	**949**	977
2025-26	415	**428**	441	197	**203**	209	612	**631**	650	292	**301**	310	904	**932**	960
2026-27	407	**420**	433	196	**202**	208	603	**622**	641	282	**291**	300	885	**913**	941
2027-28	395	**407**	419	202	**208**	214	597	**615**	633	254	**262**	270	851	**877**	903
2028-29	389	**401**	413	203	**209**	215	592	**610**	628	247	**255**	263	839	**865**	891
2029-30	380	**392**	404	194	**200**	206	574	**592**	610	259	**267**	275	833	**859**	885
2030-31	378	**390**	402	184	**190**	196	562	**580**	598	251	**259**	267	813	**839**	865
2031-32	391	**403**	415	167	**172**	177	558	**575**	592	252	**260**	268	810	**835**	860
2032-33	379	**391**	403	171	**176**	181	550	**567**	584	256	**264**	272	806	**831**	856

Notes: Enrollment data contains all resident students and excludes 100% homeschooled students.

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Appendix Table 1.2

Entering Class to Births Ratio Worksheet - Town of Hollis - MSAD 6 Resident Students Attending - 2022-23 Best Fit Model

Oct 15-Oct 14 Births	Number Births	KG Year	KG Class Size	1st Grade Year	1st Class Size	Ratio 1st/Birth	Ratio 1st/K	Proj. 1st Grade	Net Preschool Migration
2006-07	59	10/12	56	10/13	53	0.898	0.946		-6
2007-08	45	10/13	42	10/14	46	1.022	1.095		1
2008-09	60	10/14	54	10/15	43	0.717	0.796		-17
2009-10	45	10/15	46	10/16	46	1.022	1.000		1
2010-11	50	10/16	46	10/17	51	1.020	1.109		1
2011-12	53	10/17	42	10/18	39	0.736	0.929		-14
2012-13	43	10/18	48	10/19	52	1.209	1.083		9
2013-14	42	10/19	51	10/20	41	0.976	0.804		-1
2014-15	54	10/20	38	10/21	45	0.833	1.184		-9
2015-16	33	10/21	36	10/22	40	1.212	1.111		7
2016-17	51	10/22	47	10/23		1.007	1.093	51	0
2017-18	50	10/23		10/24		1.007		50	0
2018-19	53	10/24		10/25		1.007		53	0
2019-20	49	10/25		10/26		1.007		49	0
2020-21	45	10/26		10/27		1.007		45	0
2021-22*	48	10/27		10/28		1.007		48	0
2022-23 est	49	10/28		10/29		1.007		49	0
2023-24 est	49	10/29		10/30		1.007		49	0
2024-25 est	49	10/30		10/31		1.007		49	0
2025-26 est	49	10/31		10/32		1.007		49	0
10yr Total (07-16)	484	10yr Total (12-21)	459	10yr Total (13-22)	456	0.942	0.993	**Last 10yr**	-2.8
10yr Avg (07-16)	48	10yr Avg (12-21)	46	10yr Avg (13-22)	46	0.965	0.993	**Last 5yr**	-1.6
5yr Avg (18-22)	**49**							**Last 3yr**	-1.0
5yr Max (18-22)	53							**Proj.**	0.3
5yr Min (18-22)	45								
3 yr Avg (20-22)	47								

First Grade to Births Correlation Coefficients	
10 YEAR	0.267
9 YEAR	0.050
8 YEAR	0.061
7 YEAR	0.177
6 YEAR	0.183
5 YEAR	0.054
4 YEAR	0.384
3 YEAR	0.969

First Grade to Kindergarten Correlation Coefficients	
10 YEAR	0.431
9 YEAR	0.212
8 YEAR	0.235
7 YEAR	0.388
6 YEAR	0.379
5 YEAR	0.323
4 YEAR	0.320
3 YEAR	-0.209

Ratios	1st/Birth	1st/K
Avg last 10	0.965	1.006
Avg last 9	0.972	1.012
Avg last 8	0.966	1.002
Avg last 7	1.001	1.031
Avg last 6	0.998	1.037
Avg last 5	0.993	1.022
Avg last 4	1.058	1.046
Avg last 3	1.007	1.033
10yr Weighted	0.992	1.026
5yr Weighted	1.032	1.053
3yr Weighted	1.046	1.084

Notes: Based on October 1st Enrollment. Enrollment data contains all resident students attending district schools, excludes 100% homeschooled students. Enrollment data supplied by MDOE and MSAD 6. Future births between 2022-23 and 2025-26 were based on the 5-year average of births (2017-18 to 2021-22). *2022 birth data is preliminary and provisional from the Maine Department of Health and Human Services, Office of Data, Research, and Vital Statistics. The first grade from 2023-24 to 2032-33 was projected using the 3-year ratio of first grade to births.

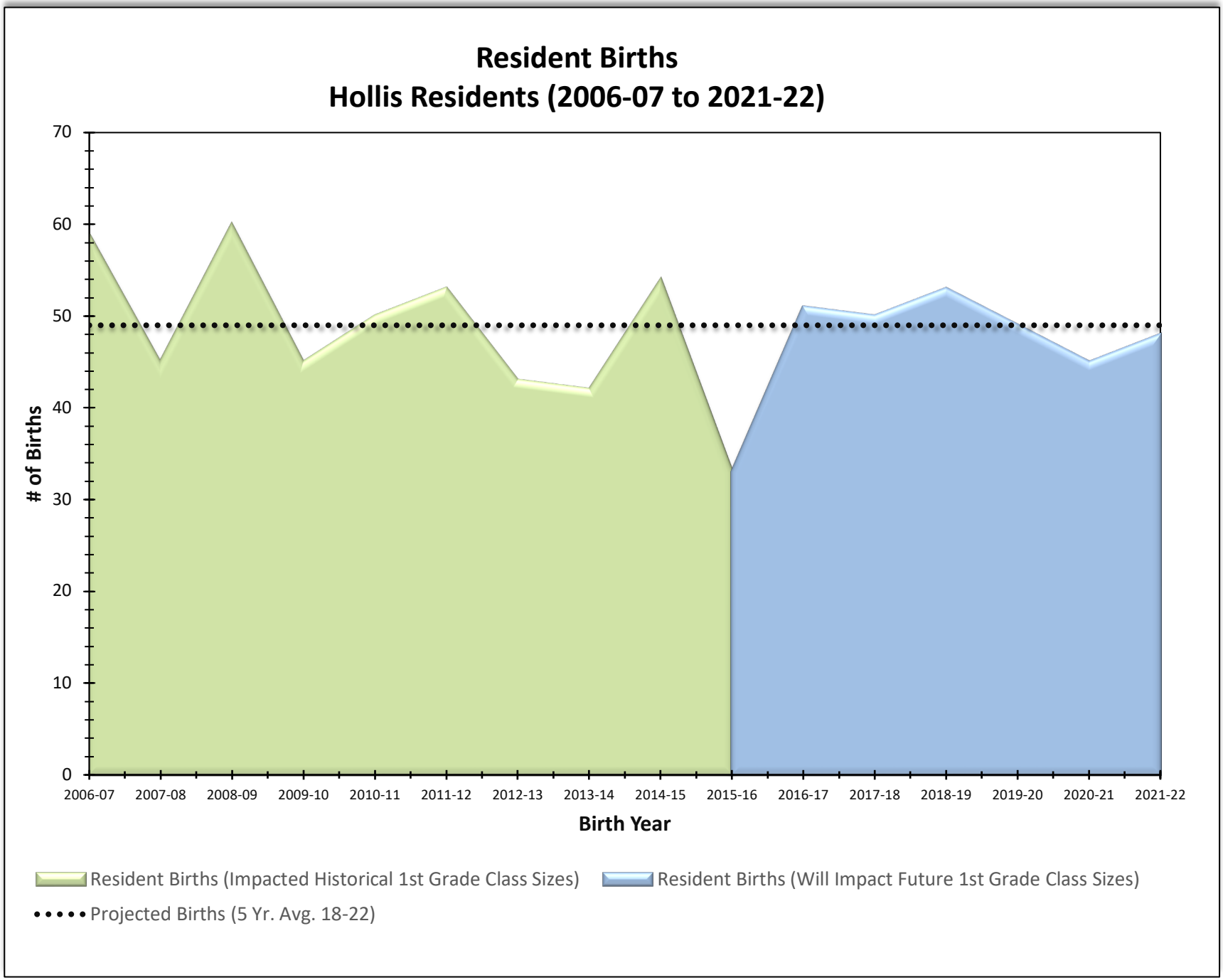
2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

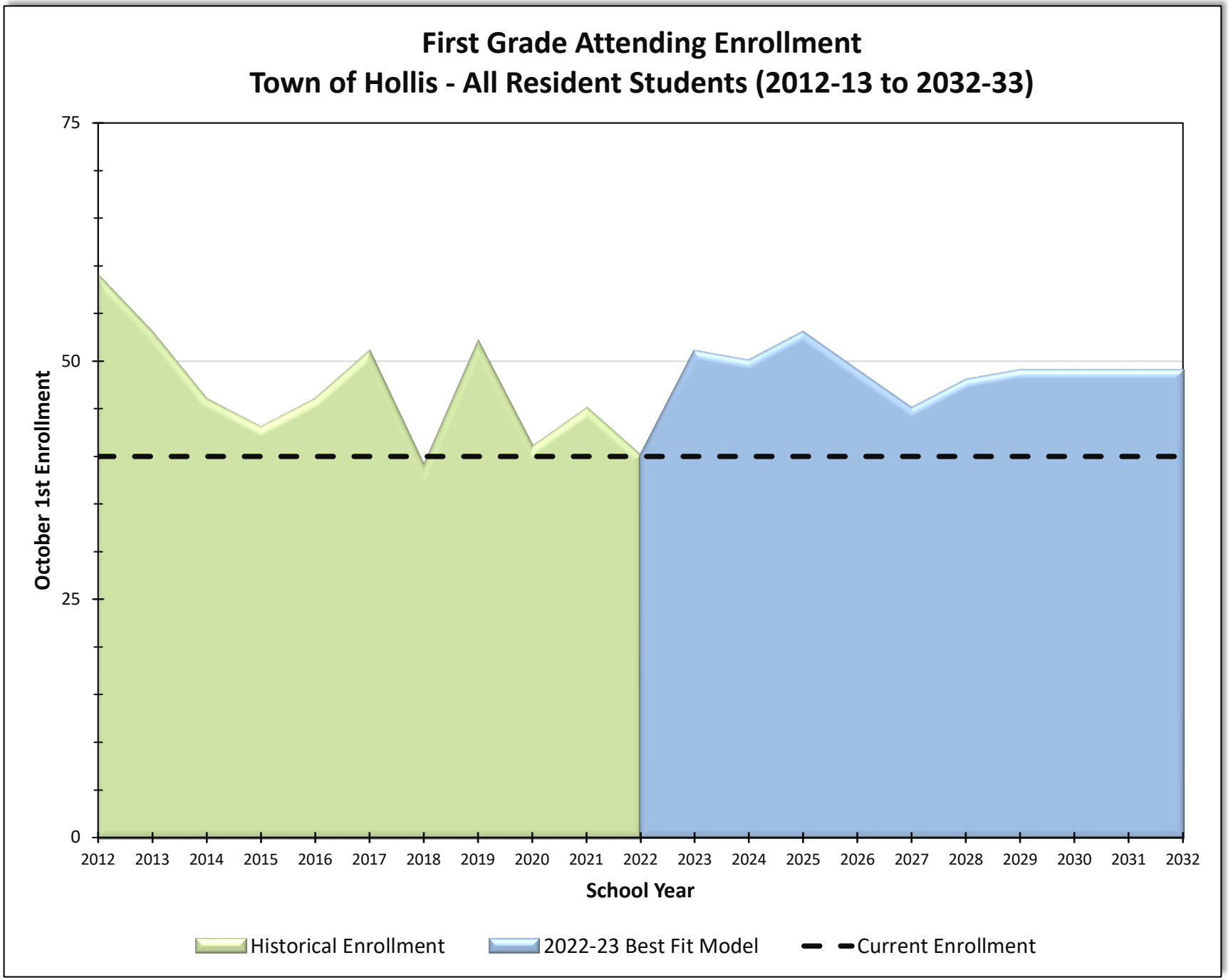
Data produced by Wandell Consulting

Table II-1-2 - Relationship of Entering First Grade Class Size to Resident Births
Town of Hollis - MSAD 6 - Resident Attending Enrollment

Birth Year (Oct. 15 - Oct. 14)	# of Resident Births	First Grade Year	Best Fit Model		
			Enrollment	Ratio 1st/Births	+/-%
2006-07	59	2013-14	53	0.898	-10.2%
2007-08	45	2014-15	46	1.022	2.2%
2008-09	60	2015-16	43	0.717	-28.3%
2009-10	45	2016-17	46	1.022	2.2%
2010-11	50	2017-18	51	1.020	2.0%
2011-12	53	2018-19	39	0.736	-26.4%
2012-13	43	2019-20	52	1.209	20.9%
2013-14	42	2020-21	41	0.976	-2.4%
2014-15	54	2021-22	45	0.833	-16.7%
2015-16	33	2022-23*	40	1.212	21.2%
2016-17	51	2023-24	51	1.007	0.7%
2017-18	50	2024-25	50	1.007	0.7%
2018-19	53	2025-26	53	1.007	0.7%
2019-20	49	2026-27	49	1.007	0.7%
2020-21	45	2027-28	45	1.007	0.7%
2021-22*	48	2028-29	48	1.007	0.7%
2022-23 est	49	2029-30	49	1.007	0.7%
2023-24 est	49	2030-31	49	1.007	0.7%
2024-25 est	49	2031-32	49	1.007	0.7%
2025-26 est	49	2032-33	49	1.007	0.7%
10-Yr Avg. (2006-07 to 2015-16)	48	**10-Yr Avg. (2013-14 to 2022-23)**	46	0.965	-3.5%
5-Yr Avg. (2006-07 to 2010-11)	52	**First 5-Yr Avg. (2013-14 to 2017-18)**	48	0.936	-6.4%
5-Yr Avg. Births (2011-12 to 2015-16)	45	**Most Recent 5-Yr Avg. (2018-19 to 2022-23)**	43	0.993	-0.7%
Births 3-Yr Avg. (2013-14 to 2015-16)	43	**Most Recent 3-Yr Avg. (2020-21 to 2022-23)**	42	1.007	0.7%
Most Recent 10-Yr Avg. (2012-13 to 2021-22)	47	**Projected 10-Yr Avg. (2023-24 to 2032-33)**	**50**	1.007	0.7%
Most Recent 5-Yr Avg. (2017-18 to 2021-22)	49				
Most Recent 3-Yr Avg. (2019-20 to 2021-22)	47				

Births: Maine Center for Disease Control and Prevention, Data, Research and Vital Statistics. 2022 births are preliminary and provisional; *Future births between 2022-23 and 2025-26 were based on the 5-year average of births between 2017-18 and 2021-22. **Note:** Enrollment includes all resident students attending district schools. First to birth ratios shown here are based on the rounded first grade projection from the Entering Class to Births Ratio Worksheet. **Historical Enrollment Source:** 2012-2017 from MDOE, 2018-2022 from the district. All else calculated by Wandell Consulting.


Resident Births
Hollis Residents (2006-07 to 2021-22)
70
60
50
40
30
20
10
0
# of Births
2006-07
2007-08
2008-09
2009-10
2010-11
2011-12
2012-13
2013-14
2014-15
2015-16
2016-17
2017-18
2018-19
2019-20
2020-21
2021-22
Birth Year
Resident Births (Impacted Historical 1st Grade Class Sizes)
Resident Births (Will Impact Future 1st Grade Class Sizes)
Projected Births (5 Yr. Avg. 18-22)


First Grade Attending Enrollment
Town of Hollis - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
75
50
25
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

Appendix Table 2.2

Enrollment Trends & Projections - Town of Hollis - MSAD 6 Attending Resident and Non-Resident Enrollment - 2022-23 Best Fit Model

School Year	PreK	K	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12
Historical																			
2012-13	0	56	59	51	62	56	60	51	47	49	52	37	49	39	344	147	491	177	**668**
2013-14	0	42	53	60	52	64	57	59	51	46	47	45	34	43	328	156	484	169	**653**
2014-15	0	54	46	55	61	58	66	60	57	49	37	55	48	39	340	166	506	179	**685**
2015-16	0	46	43	43	53	66	57	64	71	51	45	42	53	48	308	186	494	188	**682**
2016-17	0	46	46	45	43	55	65	58	63	64	50	48	35	52	300	185	485	185	**670**
2017-18	0	42	51	39	43	47	54	67	61	65	67	53	48	46	276	193	469	214	**683**
2018-19	12	48	39	53	35	43	52	53	61	57	67	65	56	46	282	171	453	234	**687**
2019-20	16	51	52	43	51	32	45	54	53	63	52	70	68	51	290	170	460	241	**701**
2020-21	15	38	41	47	38	49	31	38	49	57	62	53	65	63	259	144	403	243	**646**
2021-22	14	36	45	46	49	35	50	34	36	53	54	56	48	60	275	123	398	218	**616**
2022-23	14	47	40	42	48	49	38	50	34	38	47	59	56	46	278	122	400	208	**608**
Projected																			
2023-24	17	51	51	40	42	46	50	38	48	36	36	49	56	52	297	122	419	193	**612**
2024-25	16	54	50	51	39	39	46	50	36	51	34	37	46	52	295	137	432	169	**601**
2025-26	15	50	53	50	51	37	40	46	47	39	48	35	35	43	296	132	428	161	**589**
2026-27	16	46	49	53	50	48	38	40	44	51	36	50	33	33	300	135	435	152	**587**
2027-28	16	49	45	49	53	47	49	38	38	47	48	38	47	31	308	123	431	164	**595**
2028-29	16	50	48	45	49	50	48	49	36	41	44	49	36	44	306	126	432	173	**605**
2029-30	16	50	49	48	45	46	51	48	47	39	38	46	47	33	305	134	439	164	**603**
2030-31	16	50	49	49	48	42	47	51	46	50	36	40	43	44	301	147	448	163	**611**
2031-32	16	50	49	49	49	45	43	47	48	49	47	38	38	41	301	144	445	164	**609**
2032-33	16	50	49	49	49	46	46	43	45	52	46	48	36	35	305	140	445	165	**610**

Notes: Based on October 1st Enrollment. Enrollment data contains all attending resident students. Excludes any resident students attending school outside of district schools, and excludes any non-resident students attending district schools

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Appendix Table 4.2

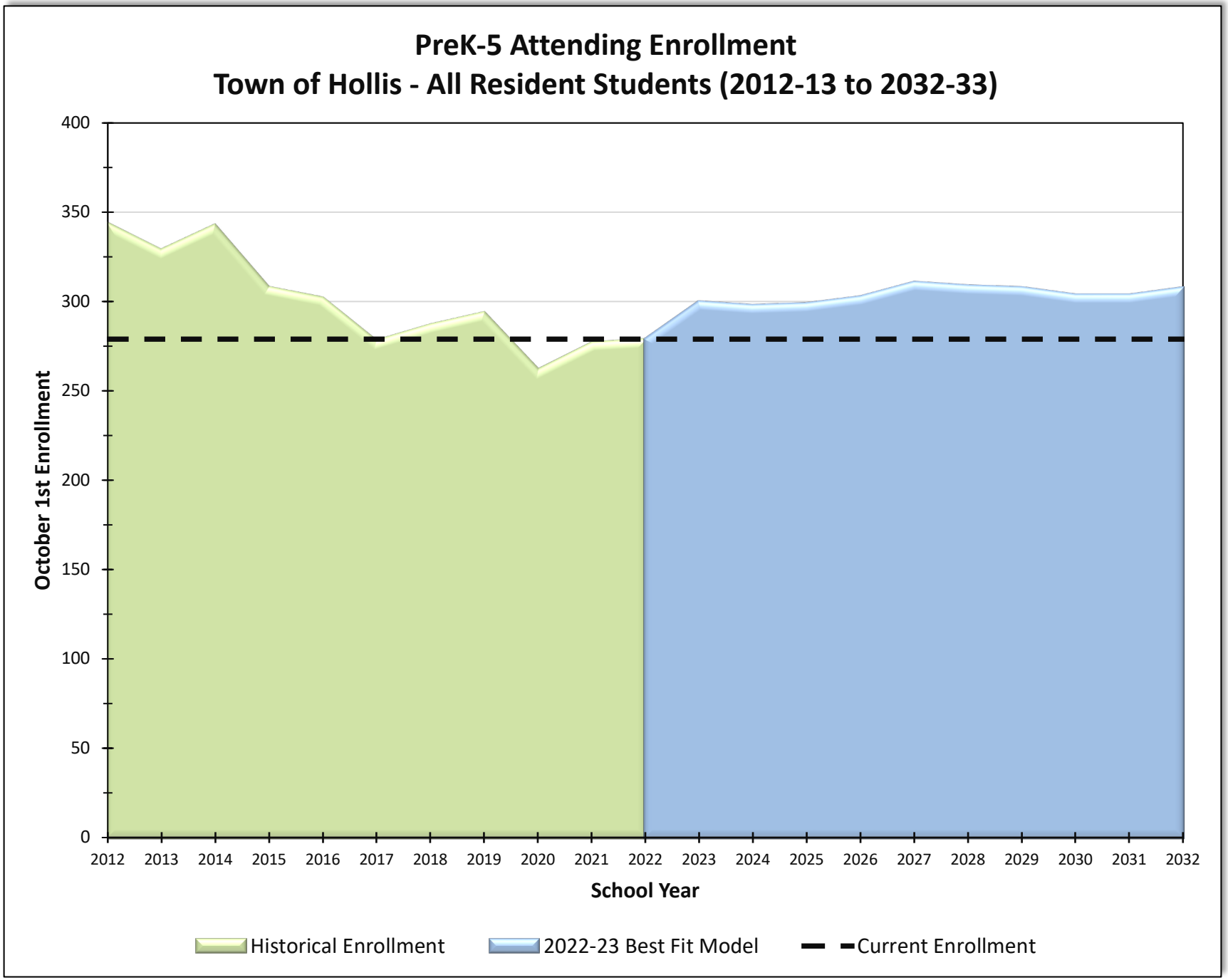
Enrollment Trends & Projections - Town of Hollis - MSAD 6 Resident Enrollment - 2022-23 Best Fit Model

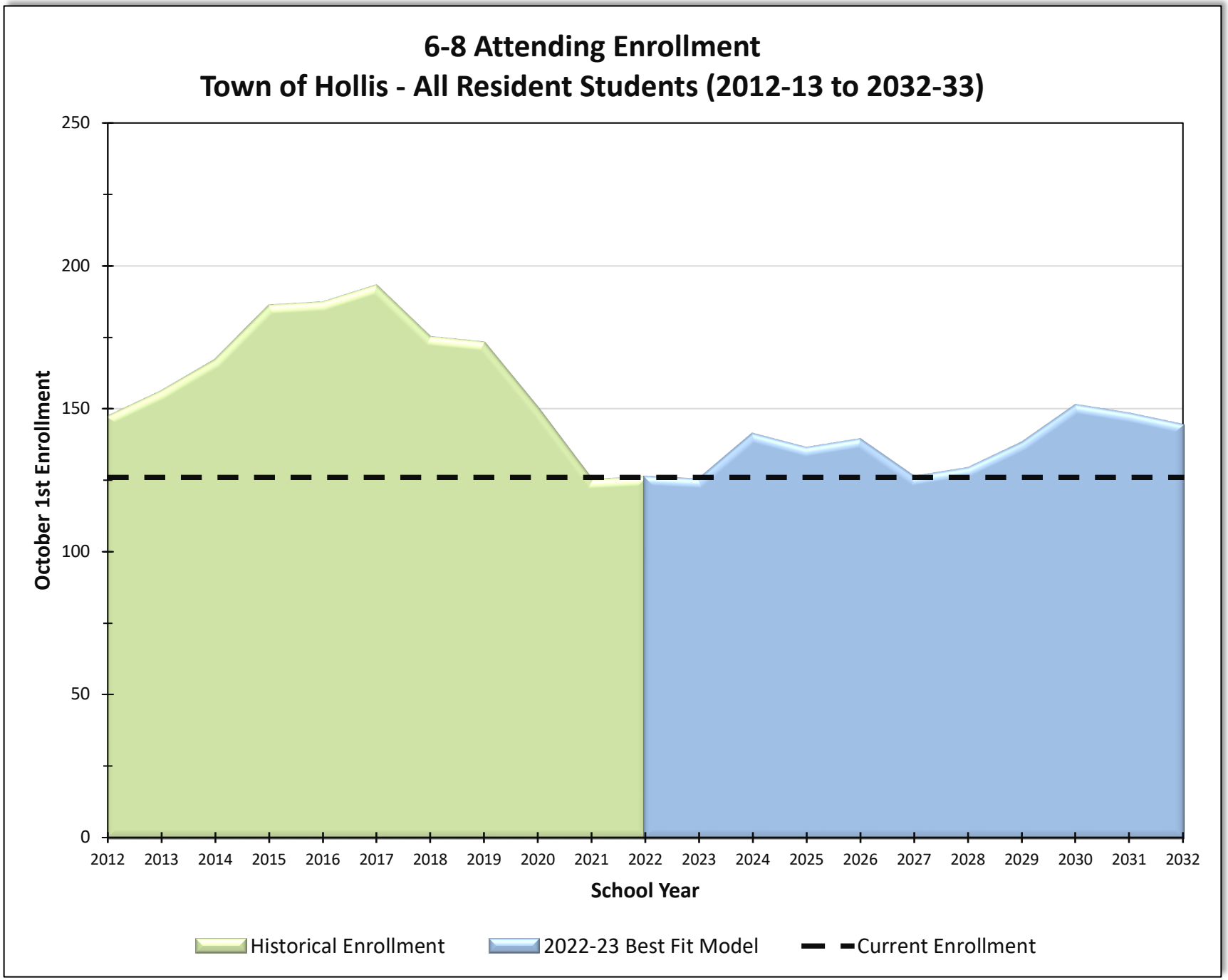
School Year	Resident Students Attending District Schools					Resident Students at NON-District Schools					Total ALL Hollis Students				
	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12
Historical															
2012-13	344	147	491	177	**668**	0	0	0	4	**4**	344	147	491	181	**672**
2013-14	328	156	484	169	**653**	1	0	1	3	**4**	329	156	485	172	**657**
2014-15	340	166	506	179	**685**	3	1	4	9	**13**	343	167	510	188	**698**
2015-16	308	186	494	188	**682**	0	0	0	8	**8**	308	186	494	196	**690**
2016-17	300	185	485	185	**670**	2	2	4	6	**10**	302	187	489	191	**680**
2017-18	276	193	469	214	**683**	2	0	2	12	**14**	278	193	471	226	**697**
2018-19	282	171	453	234	**687**	5	4	9	15	**24**	287	175	462	249	**711**
2019-20	290	170	460	241	**701**	4	3	7	10	**17**	294	173	467	251	**718**
2020-21	259	144	403	243	**646**	3	6	9	15	**24**	262	150	412	258	**670**
2021-22	275	123	398	218	**616**	2	2	4	17	**21**	277	125	402	235	**637**
2022-23	278	122	400	208	**608**	1	4	5	12	**17**	279	126	405	220	**625**
Projected															
2023-24	297	122	419	193	**612**	3	3	6	13	**19**	300	125	425	206	**631**
2024-25	295	137	432	169	**601**	3	4	7	11	**18**	298	141	439	180	**619**
2025-26	296	132	428	161	**589**	3	4	7	11	**18**	299	136	435	172	**607**
2026-27	300	135	435	152	**587**	3	4	7	10	**17**	303	139	442	162	**604**
2027-28	308	123	431	164	**595**	3	3	6	11	**17**	311	126	437	175	**612**
2028-29	306	126	432	173	**605**	3	3	6	11	**17**	309	129	438	184	**622**
2029-30	305	134	439	164	**603**	3	4	7	11	**18**	308	138	446	175	**621**
2030-31	301	147	448	163	**611**	3	4	7	11	**18**	304	151	455	174	**629**
2031-32	301	144	445	164	**609**	3	4	7	11	**18**	304	148	452	175	**627**
2032-33	305	140	445	165	**610**	3	4	7	11	**18**	308	144	452	176	**628**

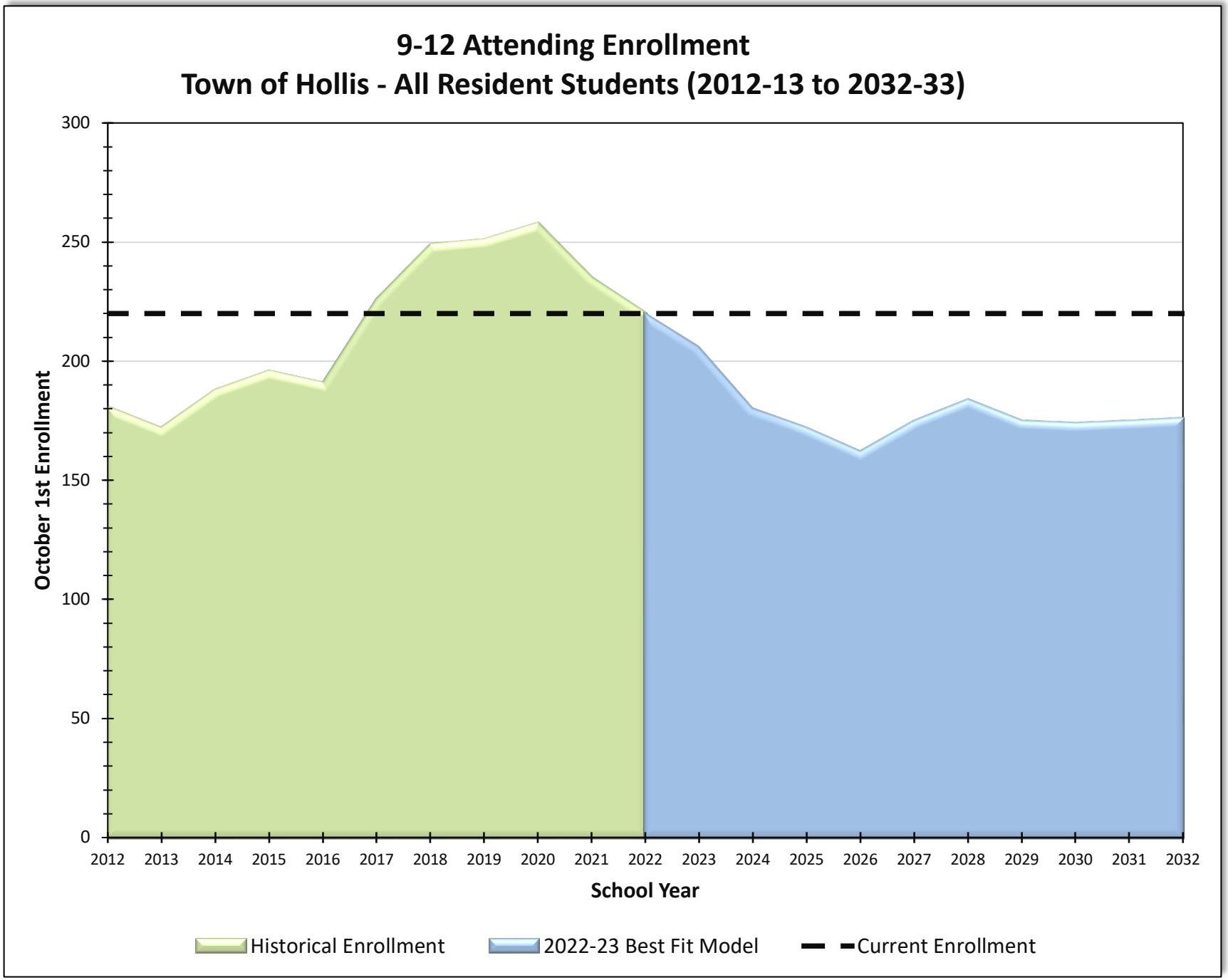
Notes: October 1st Enrollment data. Enrollment data contains all resident students but excludes 100% homeschooled students.

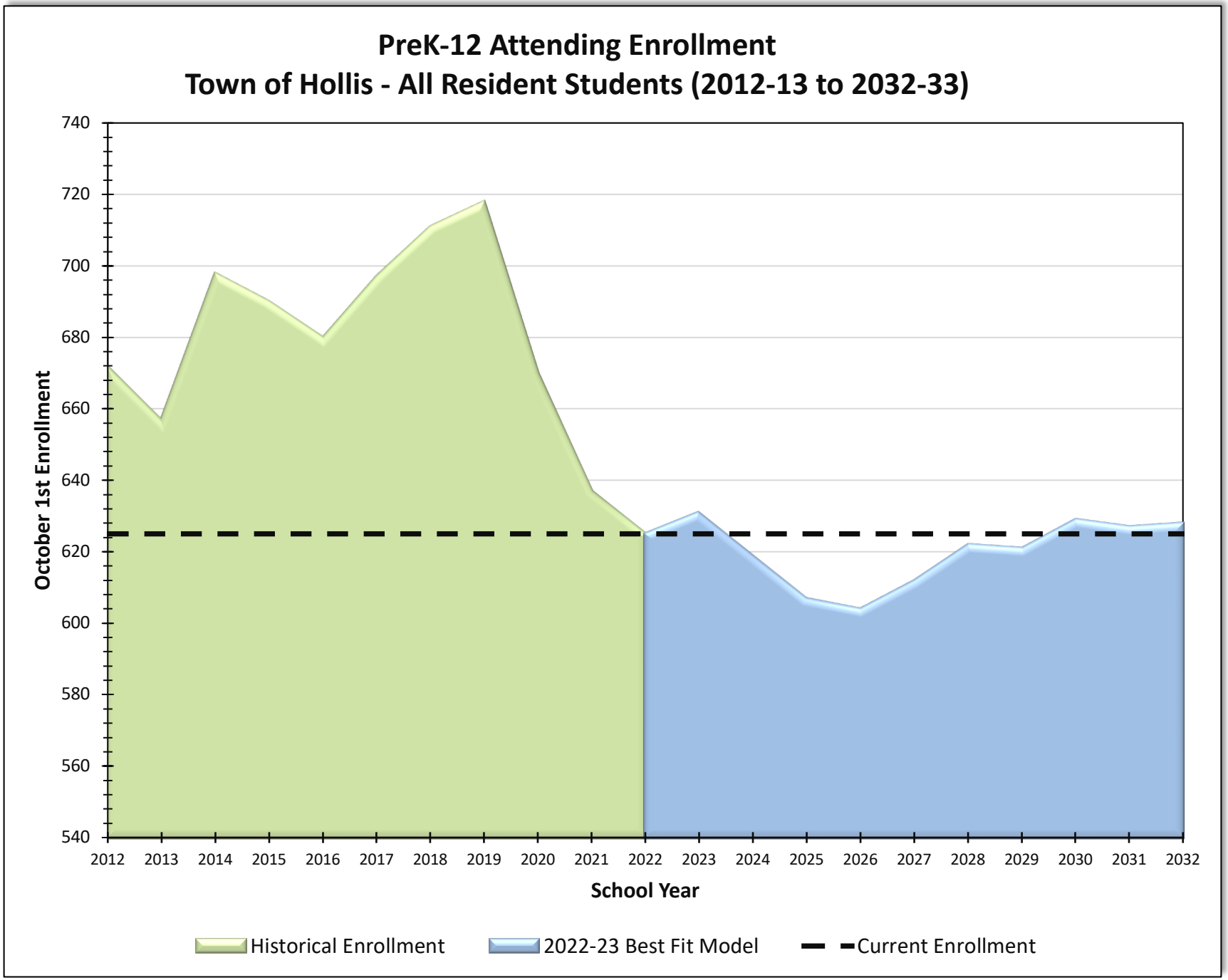
2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting


PreK-5 Attending Enrollment
Town of Hollis - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
400
350
300
250
200
150
100
50
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment


6-8 Attending Enrollment
Town of Hollis - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
250
200
150
100
50
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment


9-12 Attending Enrollment
Town of Hollis - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
300
250
200
150
100
50
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment


PreK-12 Attending Enrollment
Town of Hollis - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
740
720
700
680
660
640
620
600
580
560
540
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

Appendix Table 5.2
Town of Hollis - MSAD 6 Resident Students - 2022-23 Best Fit Model

Enrollment Projection Ranges (+/-5% and +/-10%) - October 1st Enrollment

School Year	Grades PreK-5			Grades 6-8			Grades PreK-8			Grades 9-12			Total All Grades PreK-12		
	-10%	Proj.	+10%	-10%	Proj.	+10%	-10%	Proj.	+10%	-5%	Proj.	+5%	-Range	Proj.	+Range
2022-23*		**279**			**126**			**405**			**220**			**625**	
2023-24	270	**300**	330	113	**125**	138	383	**425**	468	196	**206**	216	579	**631**	684
2024-25	268	**298**	328	127	**141**	155	395	**439**	483	171	**180**	189	566	**619**	672
2025-26	269	**299**	329	122	**136**	150	391	**435**	479	163	**172**	181	554	**607**	660
2026-27	273	**303**	333	125	**139**	153	398	**442**	486	154	**162**	170	552	**604**	656
2027-28	280	**311**	342	113	**126**	139	393	**437**	481	166	**175**	184	559	**612**	665
2028-29	278	**309**	340	116	**129**	142	394	**438**	482	175	**184**	193	569	**622**	675
2029-30	277	**308**	339	124	**138**	152	401	**446**	491	166	**175**	184	567	**621**	675
2030-31	274	**304**	334	136	**151**	166	410	**455**	500	165	**174**	183	575	**629**	683
2031-32	274	**304**	334	133	**148**	163	407	**452**	497	166	**175**	184	573	**627**	681
2032-33	277	**308**	339	130	**144**	158	407	**452**	497	167	**176**	185	574	**628**	682

Enrollment Projection Ranges (+/-3%) - October 1st Enrollment

School Year	Grades PreK-5			Grades 6-8			Grades PreK-8			Grades 9-12			Total All Grades PreK-12		
	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	3%
2022-23*		**279**			**126**			**405**			**220**			**625**	
2023-24	291	**300**	309	121	**125**	129	412	**425**	438	200	**206**	212	612	**631**	650
2024-25	289	**298**	307	137	**141**	145	426	**439**	452	175	**180**	185	601	**619**	637
2025-26	290	**299**	308	132	**136**	140	422	**435**	448	167	**172**	177	589	**607**	625
2026-27	294	**303**	312	135	**139**	143	429	**442**	455	157	**162**	167	586	**604**	622
2027-28	302	**311**	320	122	**126**	130	424	**437**	450	170	**175**	180	594	**612**	630
2028-29	300	**309**	318	125	**129**	133	425	**438**	451	178	**184**	190	603	**622**	641
2029-30	299	**308**	317	134	**138**	142	433	**446**	459	170	**175**	180	603	**621**	639
2030-31	295	**304**	313	146	**151**	156	441	**455**	469	169	**174**	179	610	**629**	648
2031-32	295	**304**	313	144	**148**	152	439	**452**	465	170	**175**	180	609	**627**	645
2032-33	299	**308**	317	140	**144**	148	439	**452**	465	171	**176**	181	610	**628**	646

Notes: Enrollment data contains all resident students and excludes 100% homeschooled students.

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Appendix Table 1.3

Entering Class to Births Ratio Worksheet - Town of Limington - MSAD 6 Resident Students Attending - 2022-23 Best Fit Model

Oct 15-Oct 14 Births	Number Births	KG Year	KG Class Size	1st Grade Year	1st Class Size	Ratio 1st/Birth	Ratio 1st/K	Proj. 1st Grade	Net Preschool Migration
2006-07	61	10/12	45	10/13	43	0.705	0.956		-18
2007-08	42	10/13	44	10/14	43	1.024	0.977		1
2008-09	43	10/14	40	10/15	41	0.953	1.025		-2
2009-10	49	10/15	45	10/16	40	0.816	0.889		-9
2010-11	40	10/16	38	10/17	34	0.850	0.895		-6
2011-12	46	10/17	56	10/18	48	1.043	0.857		2
2012-13	56	10/18	55	10/19	52	0.929	0.945		-4
2013-14	44	10/19	45	10/20	44	1.000	0.978		0
2014-15	48	10/20	32	10/21	38	0.792	1.188		-10
2015-16	44	10/21	35	10/22	38	0.864	1.086		-6
2016-17	29	10/22	40	10/23		1.379	1.000	40	11
2017-18	48	10/23		10/24		0.913		44	-4
2018-19	50	10/24		10/25		0.913		46	-4
2019-20	35	10/25		10/26		0.913		32	-3
2020-21	43	10/26		10/27		0.913		39	-4
2021-22*	34	10/27		10/28		0.913		31	-3
2022-23 est	37	10/28		10/29		0.913		34	-3
2023-24 est	37	10/29		10/30		0.913		34	-3
2024-25 est	37	10/30		10/31		0.913		34	-3
2025-26 est	37	10/31		10/32		0.913		34	-3
10yr Total (07-16)	473	10yr Total (12-21)	435	10yr Total (13-22)	421	0.890	0.968	Last 10yr	-5.2
10yr Avg (07-16)	47	10yr Avg (12-21)	44	10yr Avg (13-22)	42	0.898	0.968	Last 5yr	-3.6
5yr Avg (18-22)	42							Last 3yr	-5.3
5yr Max (18-22)	50							Proj.	-2.0
5yr Min (18-22)	34								
3 yr Avg (20-22)	**37**								

First Grade to Births Correlation Coefficients	
10 YEAR	0.490
9 YEAR	0.654
8 YEAR	0.707
7 YEAR	0.719
6 YEAR	0.770
5 YEAR	0.651
4 YEAR	0.782
3 YEAR	-0.500

First Grade to Kindergarten Correlation Coefficients	
10 YEAR	0.880
9 YEAR	0.880
8 YEAR	0.880
7 YEAR	0.883
6 YEAR	0.901
5 YEAR	0.961
4 YEAR	0.987
3 YEAR	0.975

Ratios	1st/Birth	1st/K
Avg last 10	0.898	0.980
Avg last 9	0.919	0.982
Avg last 8	0.906	0.983
Avg last 7	0.899	0.977
Avg last 6	0.913	0.992
Avg last 5	0.926	1.011
Avg last 4	0.896	1.049
Avg last 3	0.885	1.084
10yr Weighted	0.903	1.003
5yr Weighted	0.893	1.058
3yr Weighted	0.863	1.102

Notes: Based on October 1st Enrollment. Enrollment data contains all resident students attending district schools, excludes 100% homeschooled students. Enrollment data supplied by MDOE and MSAD 6. Future births between 2022-23 and 2025-26 were based on the 3-year average of births (2019-20 to 2021-22). *2022 birth data is preliminary and provisional from the Maine Department of Health and Human Services, Office of Data, Research, and Vital Statistics. The first grade from 2024-25 to 2032-33 was projected using the 6-year ratio of first grade to births, and the 2023-24 first grade class size was based on the 2022-23 Kindergarten enrollment.

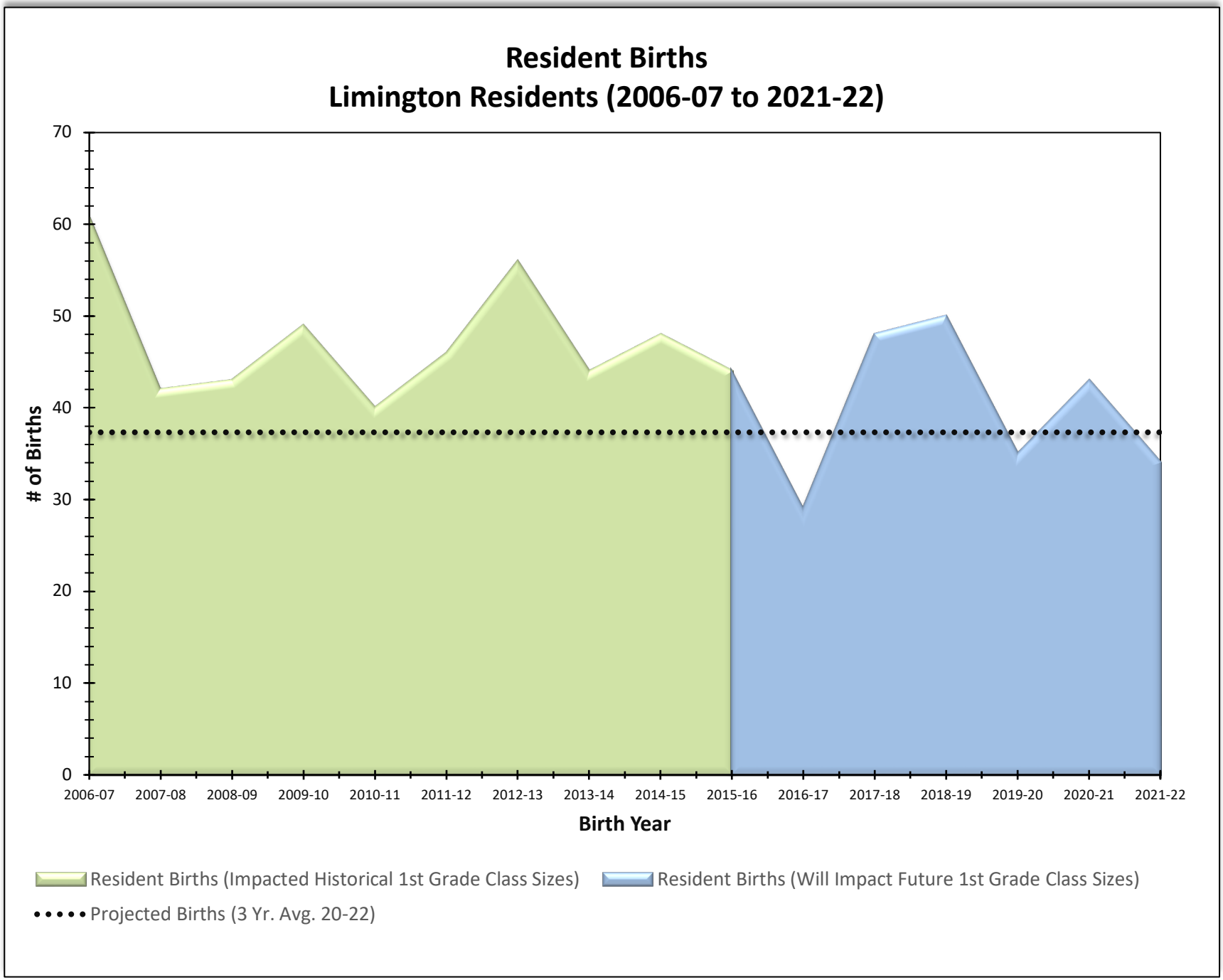
2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

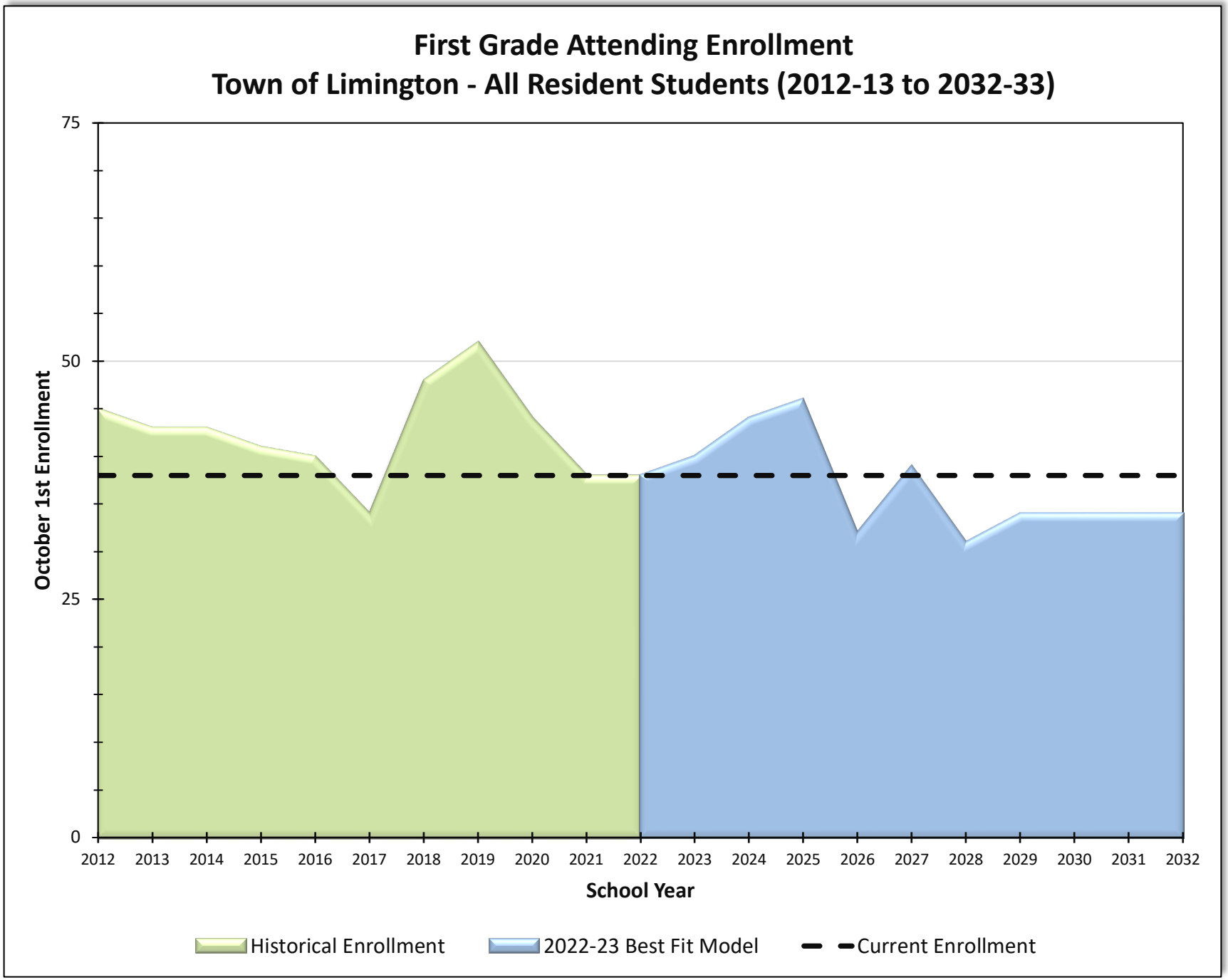
Data produced by Wandell Consulting

Table II-1-3 - Relationship of Entering First Grade Class Size to Resident Births
Town of Limington - MSAD 6 - Resident Attending Enrollment

Birth Year (Oct. 15 - Oct. 14)	# of Resident Births	First Grade Year	Best Fit Model		
			Enrollment	Ratio 1st/Births	+/-%
2006-07	61	2013-14	43	0.705	-29.5%
2007-08	42	2014-15	43	1.024	2.4%
2008-09	43	2015-16	41	0.953	-4.7%
2009-10	49	2016-17	40	0.816	-18.4%
2010-11	40	2017-18	34	0.850	-15.0%
2011-12	46	2018-19	48	1.043	4.3%
2012-13	56	2019-20	52	0.929	-7.1%
2013-14	44	2020-21	44	1.000	0.0%
2014-15	48	2021-22	38	0.792	-20.8%
2015-16	44	2022-23*	38	0.864	-13.6%
2016-17	29	2023-24	40	1.379	37.9%
2017-18	48	2024-25	44	0.913	-8.7%
2018-19	50	2025-26	46	0.913	-8.7%
2019-20	35	2026-27	32	0.913	-8.7%
2020-21	43	2027-28	39	0.913	-8.7%
2021-22*	34	2028-29	31	0.913	-8.7%
2022-23 est	37	2029-30	34	0.913	-8.7%
2023-24 est	37	2030-31	34	0.913	-8.7%
2024-25 est	37	2031-32	34	0.913	-8.7%
2025-26 est	37	2032-33	34	0.913	-8.7%
10-Yr Avg. (2006-07 to 2015-16)	47	**10-Yr Avg. (2013-14 to 2022-23)**	42	0.898	-10.2%
5-Yr Avg. (2006-07 to 2010-11)	47	**First 5-Yr Avg. (2013-14 to 2017-18)**	40	0.870	-13.0%
5-Yr Avg. Births (2011-12 to 2015-16)	48	**Most Recent 5-Yr Avg. (2018-19 to 2022-23)**	44	0.925	-7.5%
Births 3-Yr Avg. (2013-14 to 2015-16)	45	**Most Recent 3-Yr Avg. (2020-21 to 2022-23)**	40	0.885	-11.5%
Most Recent 10-Yr Avg. (2012-13 to 2021-22)	43	**Projected 10-Yr Avg. (2023-24 to 2032-33)**	**37**	0.960	-4.0%
Most Recent 5-Yr Avg. (2017-18 to 2021-22)	42				
Most Recent 3-Yr Avg. (2019-20 to 2021-22)	37				

Births: Maine Center for Disease Control and Prevention, Data, Research and Vital Statistics. 2022 births are preliminary and provisional; *Future births between 2022-23 and 2025-26 were based on the 3-year average of births between 2019-20 to 2021-22. **Note:** Enrollment includes all resident students attending district schools. First to birth ratios shown here are based on the rounded first grade projection from the Entering Class to Births Ratio Worksheet. **Historical Enrollment Source:** 2012-2017 from MDOE, 2018-2022 from the district. All else calculated by Wandell Consulting.


Resident Births
Limington Residents (2006-07 to 2021-22)
70
60
50
40
30
20
10
0
# of Births
2006-07
2007-08
2008-09
2009-10
2010-11
2011-12
2012-13
2013-14
2014-15
2015-16
2016-17
2017-18
2018-19
2019-20
2020-21
2021-22
Birth Year
Resident Births (Impacted Historical 1st Grade Class Sizes)
Resident Births (Will Impact Future 1st Grade Class Sizes)
Projected Births (3 Yr. Avg. 20-22)


First Grade Attending Enrollment
Town of Limington - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
75
50
25
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

Appendix Table 2.3

Enrollment Trends & Projections - Town of Limington - MSAD 6 Attending Resident and Non-Resident Enrollment - 2022-23 Best Fit Model

School Year	PreK	K	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12
Historical																			
2012-13	16	45	45	34	34	52	28	47	33	48	51	46	40	42	254	128	382	179	**561**
2013-14	16	44	43	39	29	33	48	29	43	29	44	47	41	40	252	101	353	172	**525**
2014-15	17	40	43	43	38	28	37	52	30	46	31	46	43	38	246	128	374	158	**532**
2015-16	16	45	41	42	37	36	27	33	52	30	47	27	44	43	244	115	359	161	**520**
2016-17	17	38	40	41	41	36	38	30	30	46	28	43	21	41	251	106	357	133	**490**
2017-18	17	56	34	41	37	43	40	36	27	30	44	27	41	25	268	93	361	137	**498**
2018-19	19	55	48	34	39	38	43	41	38	28	34	43	28	40	276	107	383	145	**528**
2019-20	16	45	52	48	36	40	38	44	39	38	28	32	37	31	275	121	396	128	**524**
2020-21	15	32	44	50	42	36	44	41	49	40	39	39	39	42	263	130	393	159	**552**
2021-22	16	35	38	44	46	41	35	41	39	45	40	40	37	38	255	125	380	155	**535**
2022-23	18	40	38	41	41	50	43	36	46	45	45	41	43	32	271	127	398	161	**559**
Projected																			
2023-24	22	42	40	39	39	41	52	44	36	46	45	47	40	44	275	126	401	176	**577**
2024-25	15	44	44	41	36	39	43	53	43	36	46	48	46	41	262	132	394	181	**575**
2025-26	19	30	46	44	38	37	41	43	53	44	36	49	46	47	255	140	395	178	**573**
2026-27	15	37	32	46	42	39	38	41	43	53	44	38	48	47	249	137	386	177	**563**
2027-28	16	30	39	32	44	42	40	39	41	43	53	46	37	49	243	123	366	185	**551**
2028-29	16	32	31	40	31	44	44	41	39	41	44	56	45	38	238	121	359	183	**542**
2029-30	16	32	34	31	38	31	46	45	41	39	41	46	54	46	228	125	353	187	**540**
2030-31	16	32	34	35	30	38	32	46	44	41	39	44	45	56	217	131	348	184	**532**
2031-32	16	32	34	35	33	30	39	33	46	45	41	41	42	46	219	124	343	170	**513**
2032-33	16	32	34	35	33	33	31	40	32	46	45	43	40	43	214	118	332	171	**503**

Notes: Based on October 1st Enrollment. Enrollment data contains all attending resident students. Excludes any resident students attending school outside of district schools, and excludes any non-resident students attending district schools

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Appendix Table 4.3

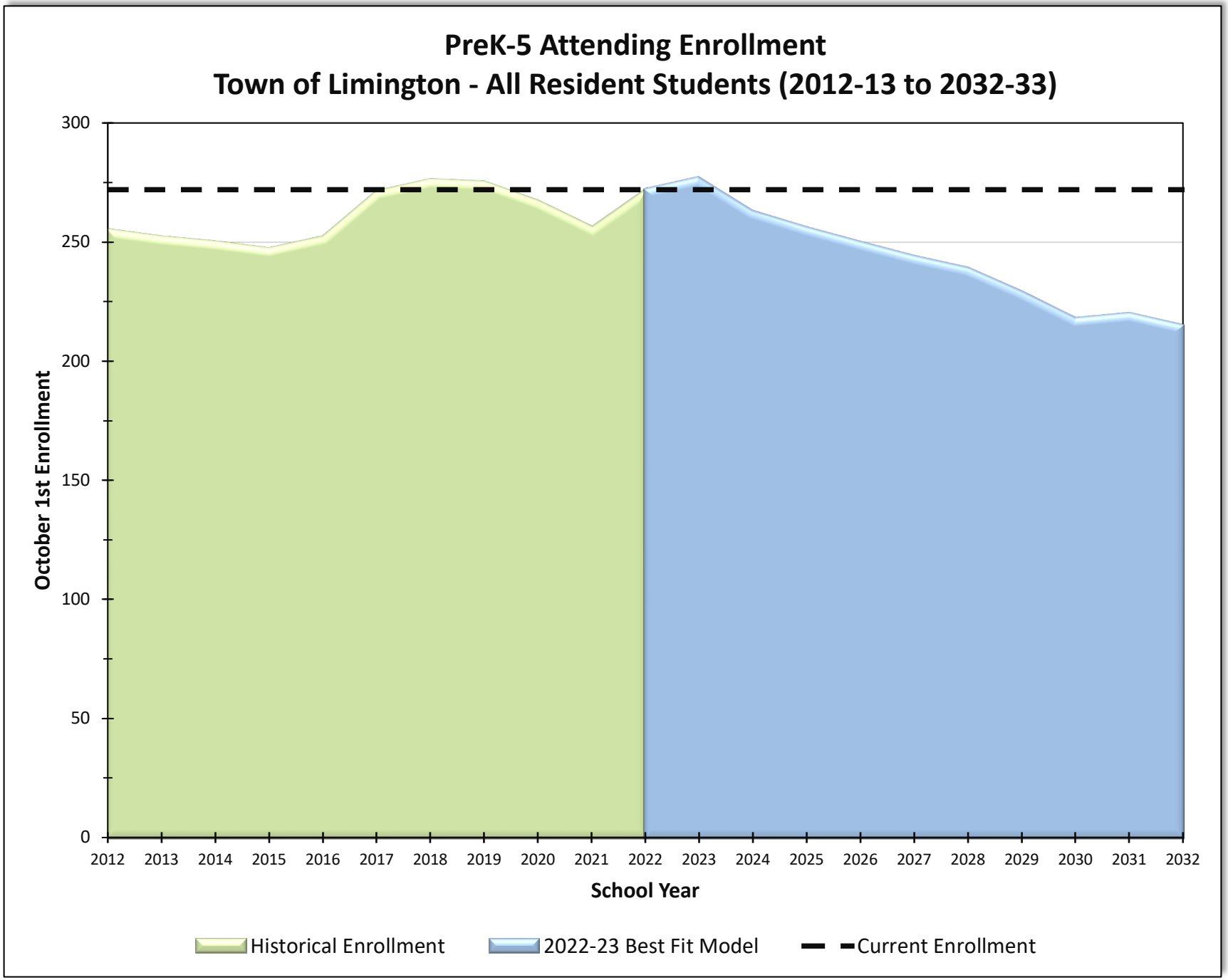
Enrollment Trends & Projections - Town of Limington - MSAD 6 Resident Enrollment - 2022-23 Best Fit Model

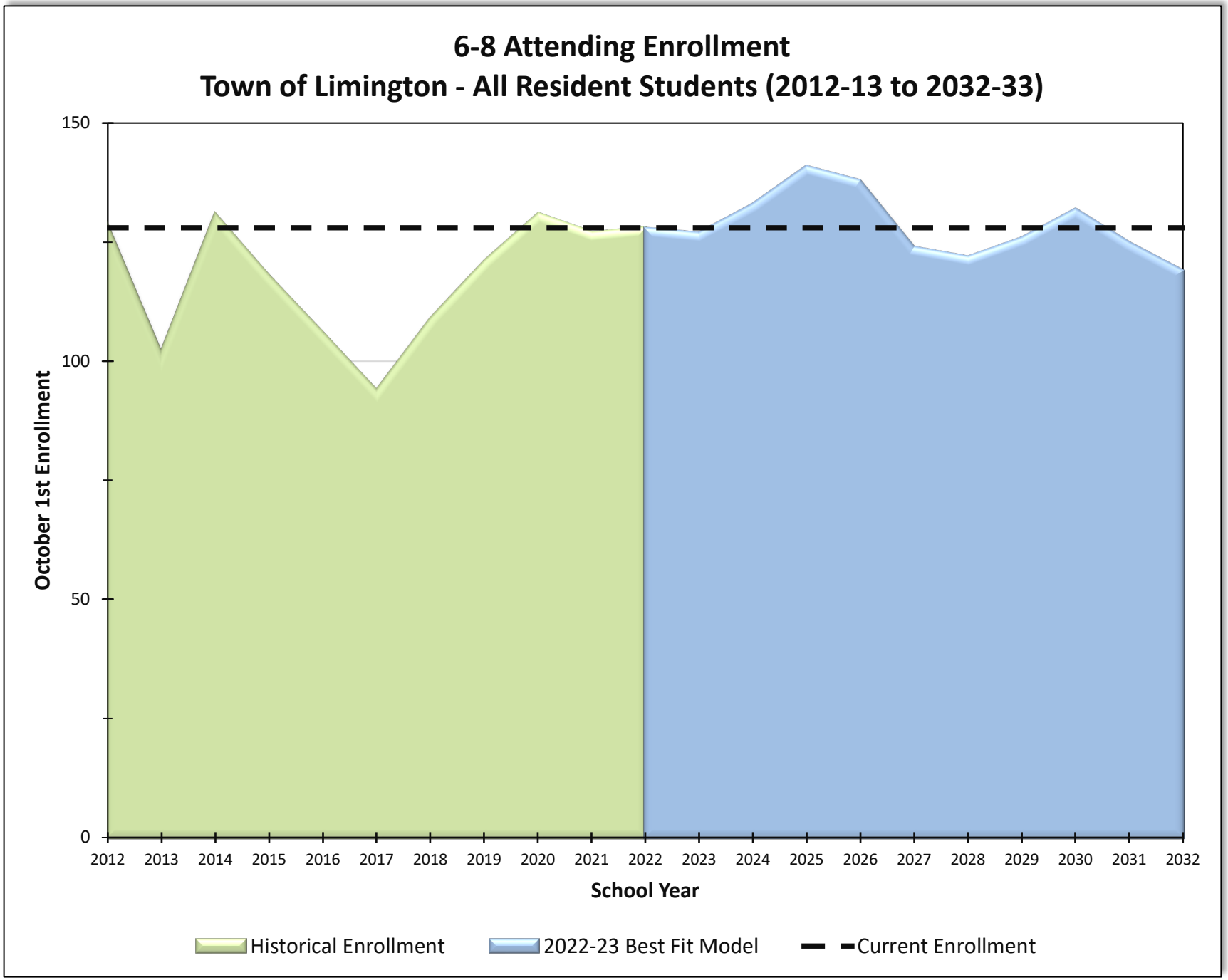
School Year	Resident Students Attending District Schools					Resident Students at NON-District Schools					Total ALL Limington Students				
	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12
Historical															
2012-13	254	128	382	179	**561**	1	1	2	1	**3**	255	129	384	180	**564**
2013-14	252	101	353	172	**525**	0	1	1	2	**3**	252	102	354	174	**528**
2014-15	246	128	374	158	**532**	4	3	7	5	**12**	250	131	381	163	**544**
2015-16	244	115	359	161	**520**	3	3	6	3	**9**	247	118	365	164	**529**
2016-17	251	106	357	133	**490**	1	0	1	8	**9**	252	106	358	141	**499**
2017-18	268	93	361	137	**498**	3	1	4	5	**9**	271	94	365	142	**507**
2018-19	276	107	383	145	**528**	0	2	2	11	**13**	276	109	385	156	**541**
2019-20	275	121	396	128	**524**	0	0	0	9	**9**	275	121	396	137	**533**
2020-21	263	130	393	159	**552**	4	1	5	9	**14**	267	131	398	168	**566**
2021-22	255	125	380	155	**535**	1	2	3	9	**12**	256	127	383	164	**547**
2022-23	271	127	398	161	**559**	1	1	2	10	**12**	272	128	400	171	**571**
Projected															
2023-24	275	126	401	176	**577**	2	1	3	10	**13**	277	127	404	186	**590**
2024-25	262	132	394	181	**575**	1	1	2	11	**13**	263	133	396	192	**588**
2025-26	255	140	395	178	**573**	1	1	2	10	**12**	256	141	397	188	**585**
2026-27	249	137	386	177	**563**	1	1	2	10	**12**	250	138	388	187	**575**
2027-28	243	123	366	185	**551**	1	1	2	11	**13**	244	124	368	196	**564**
2028-29	238	121	359	183	**542**	1	1	2	11	**13**	239	122	361	194	**555**
2029-30	228	125	353	187	**540**	1	1	2	11	**13**	229	126	355	198	**553**
2030-31	217	131	348	184	**532**	1	1	2	11	**13**	218	132	350	195	**545**
2031-32	219	124	343	170	**513**	1	1	2	10	**12**	220	125	345	180	**525**
2032-33	214	118	332	171	**503**	1	1	2	10	**12**	215	119	334	181	**515**

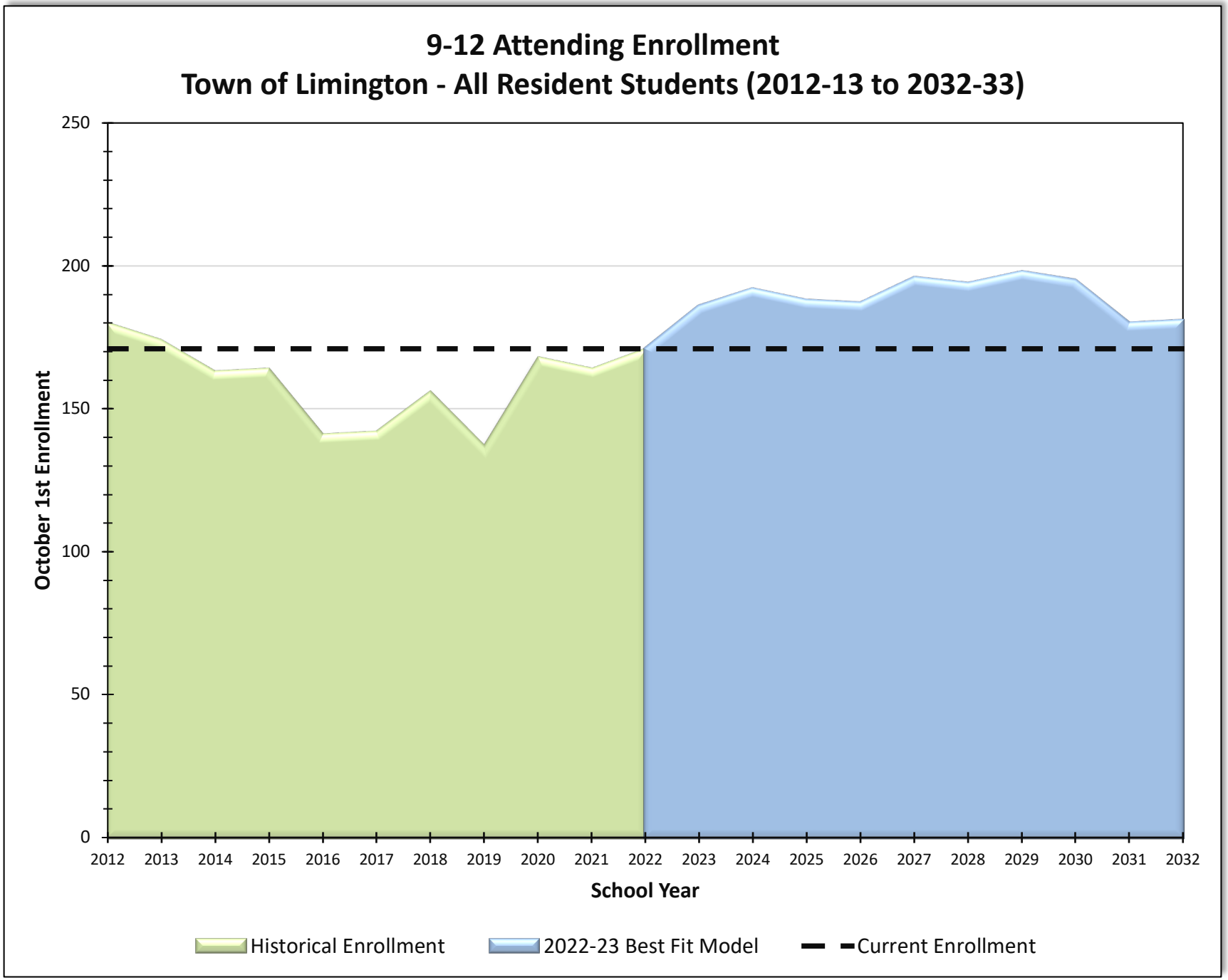
Notes: October 1st Enrollment data. Enrollment data contains all resident students but excludes 100% homeschooled students.

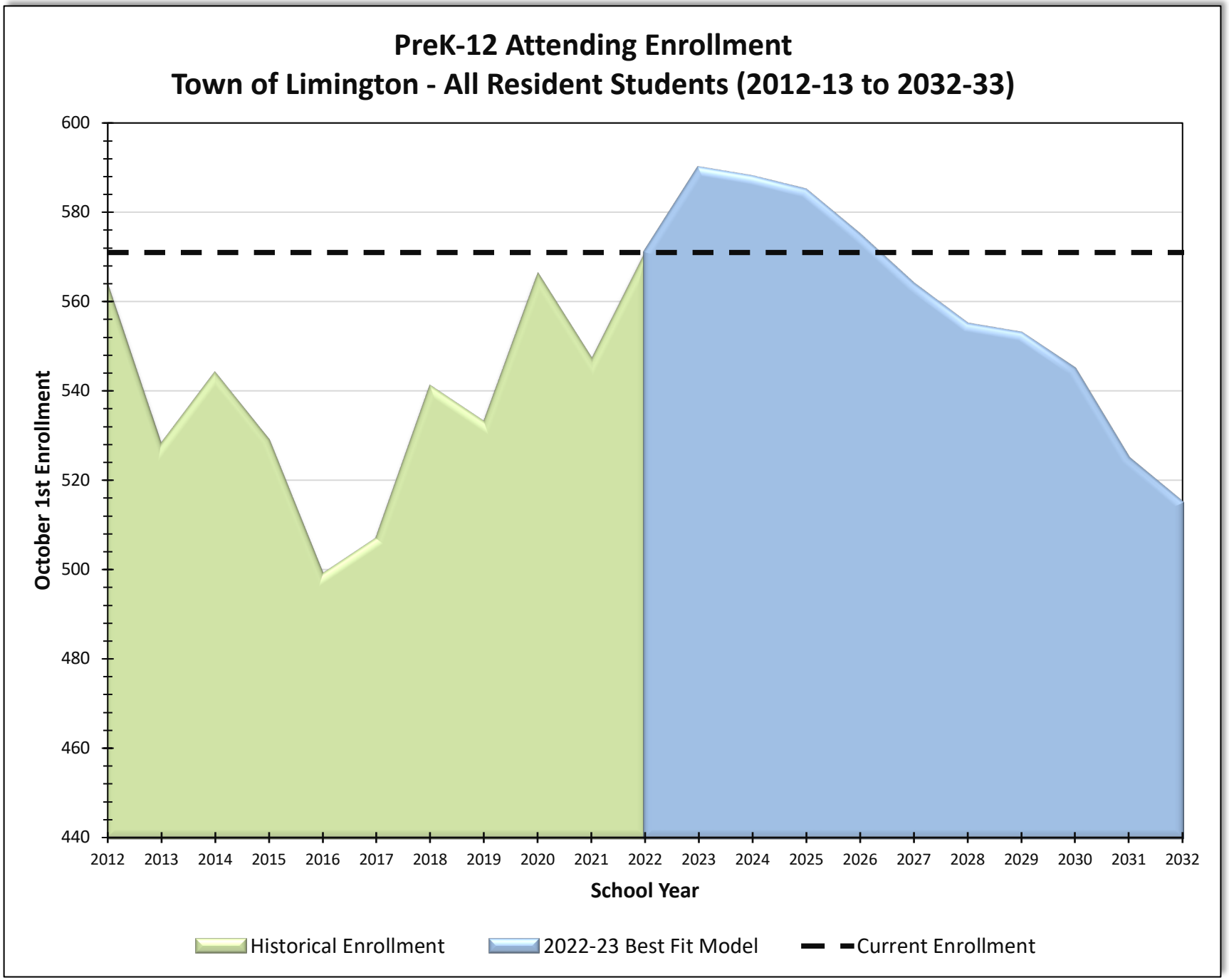
2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting


PreK-5 Attending Enrollment
Town of Limington - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
300
250
200
150
100
50
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment


6-8 Attending Enrollment
Town of Limington - All Resident Students (2012-13 to 2032-33)
150
100
50
0
October 1st Enrollment
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment


9-12 Attending Enrollment
Town of Limington - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
250
200
150
100
50
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment


PreK-12 Attending Enrollment
Town of Limington - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
600
580
560
540
520
500
480
460
440
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

Appendix Table 5.3
Town of Limington - MSAD 6 Resident Students - 2022-23 Best Fit Model

Enrollment Projection Ranges (+/-5% and +/-10%) - October 1st Enrollment

School Year	Grades PreK-5			Grades 6-8			Grades PreK-8			Grades 9-12			Total All Grades PreK-12		
	-10%	Proj.	+10%	-10%	Proj.	+10%	-10%	Proj.	+10%	-5%	Proj.	+5%	-Range	Proj.	+Range
2022-23*		**272**			**128**			**400**			**171**			**571**	
2023-24	249	**277**	305	114	**127**	140	363	**404**	445	177	**186**	195	540	**590**	640
2024-25	237	**263**	289	120	**133**	146	357	**396**	435	182	**192**	202	539	**588**	637
2025-26	230	**256**	282	127	**141**	155	357	**397**	437	179	**188**	197	536	**585**	634
2026-27	225	**250**	275	124	**138**	152	349	**388**	427	178	**187**	196	527	**575**	623
2027-28	220	**244**	268	112	**124**	136	332	**368**	404	186	**196**	206	518	**564**	610
2028-29	215	**239**	263	110	**122**	134	325	**361**	397	184	**194**	204	509	**555**	601
2029-30	206	**229**	252	113	**126**	139	319	**355**	391	188	**198**	208	507	**553**	599
2030-31	196	**218**	240	119	**132**	145	315	**350**	385	185	**195**	205	500	**545**	590
2031-32	198	**220**	242	113	**125**	138	311	**345**	380	171	**180**	189	482	**525**	569
2032-33	194	**215**	237	107	**119**	131	301	**334**	368	172	**181**	190	473	**515**	558

Enrollment Projection Ranges (+/-3%) - October 1st Enrollment

School Year	Grades PreK-5			Grades 6-8			Grades PreK-8			Grades 9-12			Total All Grades PreK-12		
	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	3%
2022-23*		**272**			**128**			**400**			**171**			**571**	
2023-24	269	**277**	285	123	**127**	131	392	**404**	416	180	**186**	192	572	**590**	608
2024-25	255	**263**	271	129	**133**	137	384	**396**	408	186	**192**	198	570	**588**	606
2025-26	248	**256**	264	137	**141**	145	385	**397**	409	182	**188**	194	567	**585**	603
2026-27	243	**250**	258	134	**138**	142	377	**388**	400	181	**187**	193	558	**575**	593
2027-28	237	**244**	251	120	**124**	128	357	**368**	379	190	**196**	202	547	**564**	581
2028-29	232	**239**	246	118	**122**	126	350	**361**	372	188	**194**	200	538	**555**	572
2029-30	222	**229**	236	122	**126**	130	344	**355**	366	192	**198**	204	536	**553**	570
2030-31	211	**218**	225	128	**132**	136	339	**350**	361	189	**195**	201	528	**545**	562
2031-32	213	**220**	227	121	**125**	129	334	**345**	356	175	**180**	185	509	**525**	541
2032-33	209	**215**	221	115	**119**	123	324	**334**	344	176	**181**	186	500	**515**	530

Notes: Enrollment data contains all resident students and excludes 100% homeschooled students.

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Appendix Table 1.4

Entering Class to Births Ratio Worksheet - Town of Standish - MSAD 6 Resident Students Attending - 2022-23 Best Fit Model

Oct 15-Oct 14 Births	Number Births	KG Year	KG Class Size	1st Grade Year	1st Class Size	Ratio 1st/Birth	Ratio 1st/K	Proj. 1st Grade	Net Preschool Migration
2006-07	120	10/12	100	10/13	99	0.825	0.990		-21
2007-08	96	10/13	100	10/14	96	1.000	0.960		0
2008-09	96	10/14	99	10/15	98	1.021	0.990		2
2009-10	70	10/15	79	10/16	83	1.186	1.051		13
2010-11	89	10/16	95	10/17	92	1.034	0.968		3
2011-12	81	10/17	87	10/18	87	1.074	1.000		6
2012-13	92	10/18	97	10/19	98	1.065	1.010		6
2013-14	98	10/19	98	10/20	89	0.908	0.908		-9
2014-15	86	10/20	87	10/21	91	1.058	1.046		5
2015-16	105	10/21	78	10/22	78	0.743	1.000		-27
2016-17	102	10/22	84	10/23		0.824	1.000	84	-18
2017-18	88	10/23		10/24		0.980		86	-2
2018-19	86	10/24		10/25		0.980		84	-2
2019-20	90	10/25		10/26		0.980		88	-2
2020-21	105	10/26		10/27		0.980		103	-2
2021-22*	97	10/27		10/28		0.980		95	-2
2022-23 est	97	10/28		10/29		0.980		95	-2
2023-24 est	97	10/29		10/30		0.980		95	-2
2024-25 est	97	10/30		10/31		0.980		95	-2
2025-26 est	97	10/31		10/32		0.980		95	-2
10yr Total (07-16)	933	10yr Total (12-21)	920	10yr Total (13-22)	911	0.976	0.990	**Last 10yr**	-2.2
10yr Avg (07-16)	93	10yr Avg (12-21)	92	10yr Avg (13-22)	91	0.991	0.990	**Last 5yr**	-3.8
5yr Avg (18-22)	93							**Last 3yr**	-10.3
5yr Max (18-22)	105							**Proj.**	-3.5
5yr Min (18-22)	86								
3 yr Avg (20-22)	**97**								

First Grade to Births Correlation Coefficients	
10 YEAR	0.359
9 YEAR	0.128
8 YEAR	0.068
7 YEAR	-0.060
6 YEAR	-0.498
5 YEAR	-0.481
4 YEAR	-0.766
3 YEAR	-0.862

First Grade to Kindergarten Correlation Coefficients	
10 YEAR	0.898
9 YEAR	0.885
8 YEAR	0.872
7 YEAR	0.840
6 YEAR	0.819
5 YEAR	0.811
4 YEAR	0.807
3 YEAR	0.749

Ratios	1st/Birth	1st/K
Avg last 10	0.991	0.992
Avg last 9	1.010	0.993
Avg last 8	1.011	0.997
Avg last 7	1.010	0.998
Avg last 6	0.980	0.989
Avg last 5	0.970	0.993
Avg last 4	0.944	0.991
Avg last 3	0.903	0.985
10yr Weighted	0.980	0.994
5yr Weighted	0.925	0.995
3yr Weighted	0.876	1.000

Notes: Based on October 1st Enrollment. Enrollment data contains all resident students attending district schools, excludes 100% homeschooled students. Enrollment data supplied by MDOE and MSAD 6. Future births between 2022-23 and 2025-26 were based on the 3-year average of births (2019-20 to 2021-22). *2022 birth data is preliminary and provisional from the Maine Department of Health and Human Services, Office of Data, Research, and Vital Statistics. The first grade from 2024-25 to 2032-33 was projected using the 10-year weighted ratio of first grade to births, the 2023-24 first grade class size was based on the 2022-23 Kindergarten enrollment.

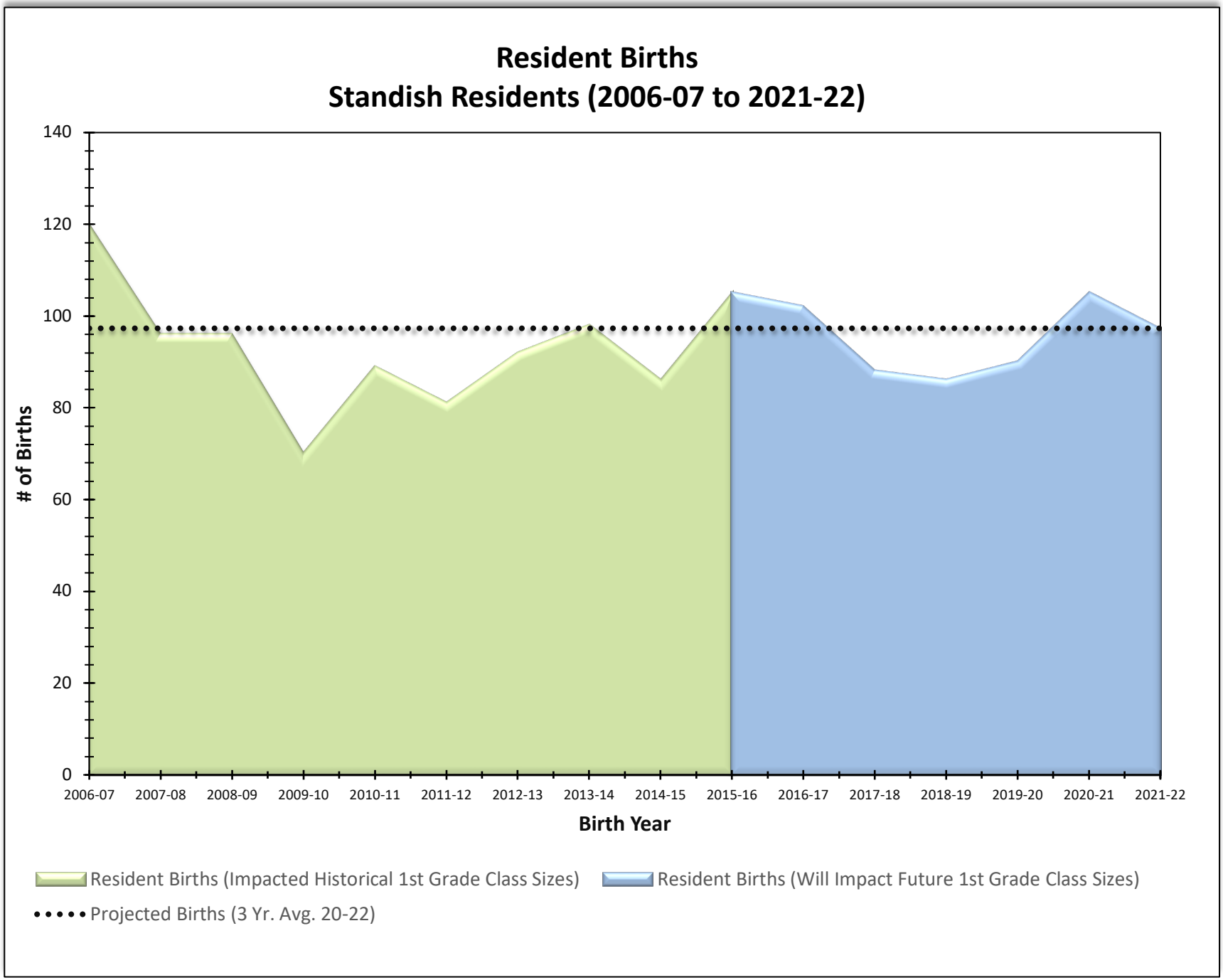
2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

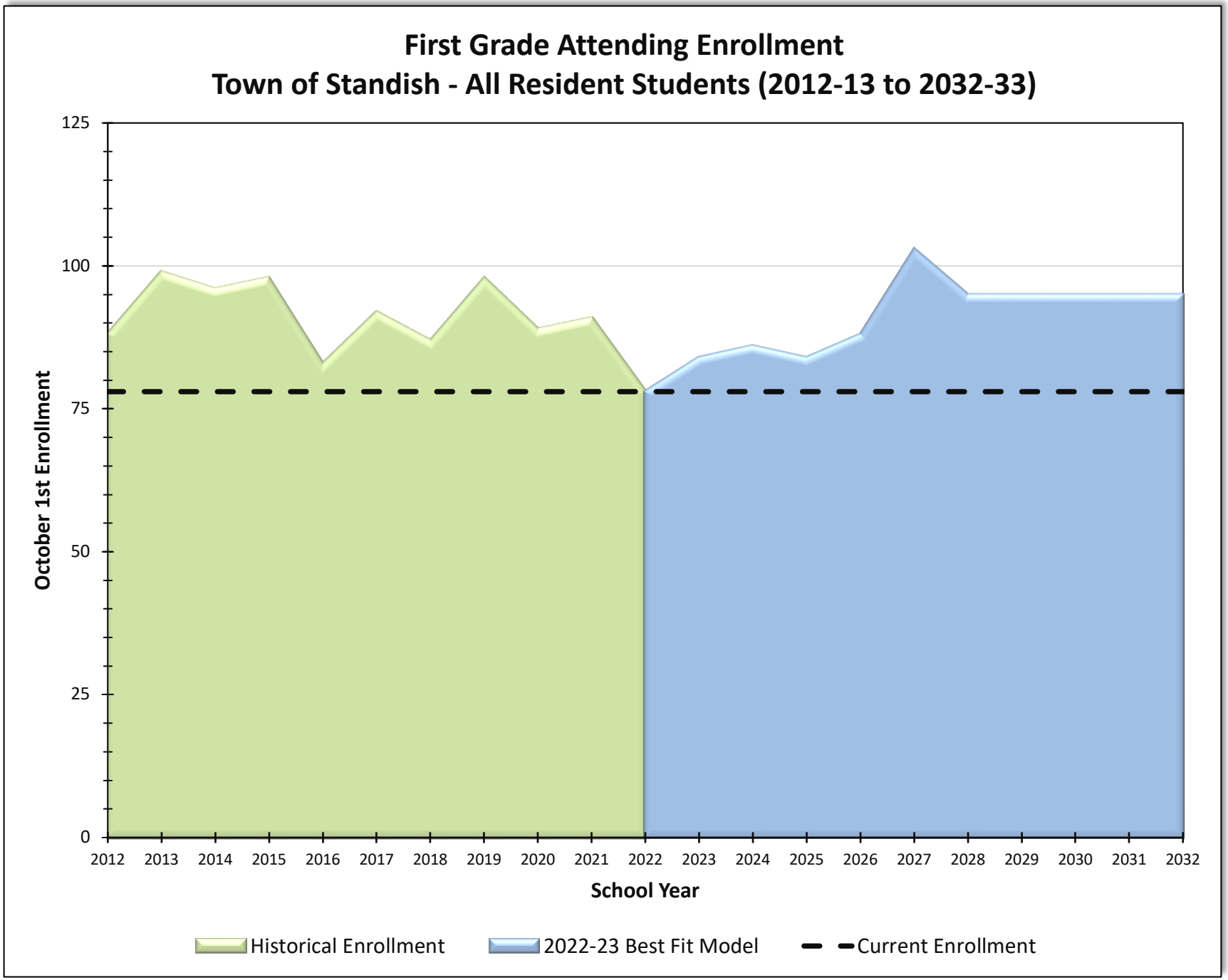
Data produced by Wandell Consulting

Table II-1-3 - Relationship of Entering First Grade Class Size to Resident Births
Town of Standish - MSAD 6 - Resident Attending Enrollment

Birth Year (Oct. 15 - Oct. 14)	# of Resident Births	First Grade Year	Best Fit Model		
			Enrollment	Ratio 1st/Births	+/-%
2006-07	120	2013-14	99	0.825	-17.5%
2007-08	96	2014-15	96	1.000	0.0%
2008-09	96	2015-16	98	1.021	2.1%
2009-10	70	2016-17	83	1.186	18.6%
2010-11	89	2017-18	92	1.034	3.4%
2011-12	81	2018-19	87	1.074	7.4%
2012-13	92	2019-20	98	1.065	6.5%
2013-14	98	2020-21	89	0.908	-9.2%
2014-15	86	2021-22	91	1.058	5.8%
2015-16	105	2022-23*	78	0.743	-25.7%
2016-17	102	2023-24	84	0.824	-17.6%
2017-18	88	2024-25	86	0.980	-2.0%
2018-19	86	2025-26	84	0.980	-2.0%
2019-20	90	2026-27	88	0.980	-2.0%
2020-21	105	2027-28	103	0.980	-2.0%
2021-22*	97	2028-29	95	0.980	-2.0%
2022-23 est	97	2029-30	95	0.980	-2.0%
2023-24 est	97	2030-31	95	0.980	-2.0%
2024-25 est	97	2031-32	95	0.980	-2.0%
2025-26 est	97	2032-33	95	0.980	-2.0%
10-Yr Avg. (2006-07 to 2015-16)	93	**10-Yr Avg. (2013-14 to 2022-23)**	91	0.991	-0.9%
5-Yr Avg. (2006-07 to 2010-11)	94	**First 5-Yr Avg. (2013-14 to 2017-18)**	94	1.013	1.3%
5-Yr Avg. Births (2011-12 to 2015-16)	92	**Most Recent 5-Yr Avg. (2018-19 to 2022-23)**	89	0.970	-3.0%
Births 3-Yr Avg. (2013-14 to 2015-16)	96	**Most Recent 3-Yr Avg. (2020-21 to 2022-23)**	86	0.903	-9.7%
Most Recent 10-Yr Avg. (2012-13 to 2021-22)	95	**Projected 10-Yr Avg. (2023-24 to 2032-33)**	**92**	0.965	-3.5%
Most Recent 5-Yr Avg. (2017-18 to 2021-22)	93				
Most Recent 3-Yr Avg. (2019-20 to 2021-22)	97				

Births: Maine Center for Disease Control and Prevention, Data, Research and Vital Statistics. 2022 births are preliminary and provisional; *Future births between 2022-23 and 2025-26 were based on the 3-year average of births between 2019-20 and 2021-22. **Note:** Enrollment includes all resident students attending district schools. First to birth ratios shown here are based on the rounded first grade projection from the Entering Class to Births Ratio Worksheet. **Historical Enrollment Source:** 2012-2017 from MDOE, 2018-2022 from the district. All else calculated by Wandell Consulting.


Resident Births
Standish Residents (2006-07 to 2021-22)
140
120
100
80
60
40
20
0
# of Births
2006-07
2007-08
2008-09
2009-10
2010-11
2011-12
2012-13
2013-14
2014-15
2015-16
2016-17
2017-18
2018-19
2019-20
2020-21
2021-22
Birth Year
Resident Births (Impacted Historical 1st Grade Class Sizes)
Resident Births (Will Impact Future 1st Grade Class Sizes)
Projected Births (3 Yr. Avg. 20-22)


First Grade Attending Enrollment
Town of Standish - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
125
100
75
50
25
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

Appendix Table 2.4

Enrollment Trends & Projections - Town of Standish - MSAD 6 Attending Resident and Non-Resident Enrollment - 2022-23 Best Fit Model

School Year	PreK	K	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12
Historical																			
2012-13	0	100	88	105	105	85	113	108	128	129	120	123	110	117	596	365	961	470	**1,431**
2013-14	0	100	99	87	99	105	87	111	105	125	123	111	119	110	577	341	918	463	**1,381**
2014-15	15	99	96	97	86	93	102	91	107	103	124	121	112	109	588	301	889	466	**1,355**
2015-16	16	79	98	106	84	83	92	102	87	115	99	124	115	106	558	304	862	444	**1,306**
2016-17	14	95	83	97	96	90	86	94	103	92	109	92	114	114	561	289	850	429	**1,279**
2017-18	16	87	92	82	94	96	86	89	91	101	97	106	86	121	553	281	834	410	**1,244**
2018-19	17	97	87	92	79	90	95	77	88	91	95	96	102	88	557	256	813	381	**1,194**
2019-20	15	98	98	88	90	80	92	97	82	86	85	100	93	102	561	265	826	380	**1,206**
2020-21	16	87	89	84	82	78	82	93	99	79	85	80	102	103	518	271	789	370	**1,159**
2021-22	18	78	91	80	86	79	75	85	95	102	82	84	79	102	507	282	789	347	**1,136**
2022-23	16	84	78	92	77	81	80	78	87	96	105	79	77	72	508	261	769	333	**1,102**
Projected																			
2023-24	15	87	84	77	89	75	81	82	80	87	98	104	76	78	508	249	757	356	**1,113**
2024-25	16	85	86	83	74	86	75	83	84	80	89	96	99	77	505	247	752	361	**1,113**
2025-26	19	89	84	85	79	72	86	77	85	84	81	88	92	101	514	246	760	362	**1,122**
2026-27	17	104	88	83	82	77	72	88	79	85	86	80	84	94	523	252	775	344	**1,119**
2027-28	17	96	103	87	80	79	77	74	90	79	87	85	77	85	539	243	782	334	**1,116**
2028-29	17	96	95	101	83	77	79	79	75	91	80	86	81	78	548	245	793	325	**1,118**
2029-30	17	96	95	93	97	81	77	81	81	75	92	79	82	82	556	237	793	335	**1,128**
2030-31	17	96	95	94	90	95	81	80	83	81	77	91	76	83	568	244	812	327	**1,139**
2031-32	17	96	95	94	90	87	94	83	81	83	83	76	87	77	573	247	820	323	**1,143**
2032-33	17	96	95	94	90	88	87	97	85	81	85	82	73	89	567	263	830	329	**1,159**

Notes: Based on October 1st Enrollment. Enrollment data contains all attending resident students. Excludes any resident students attending school outside of district schools, and excludes any non-resident students attending district schools

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Appendix Table 4.4

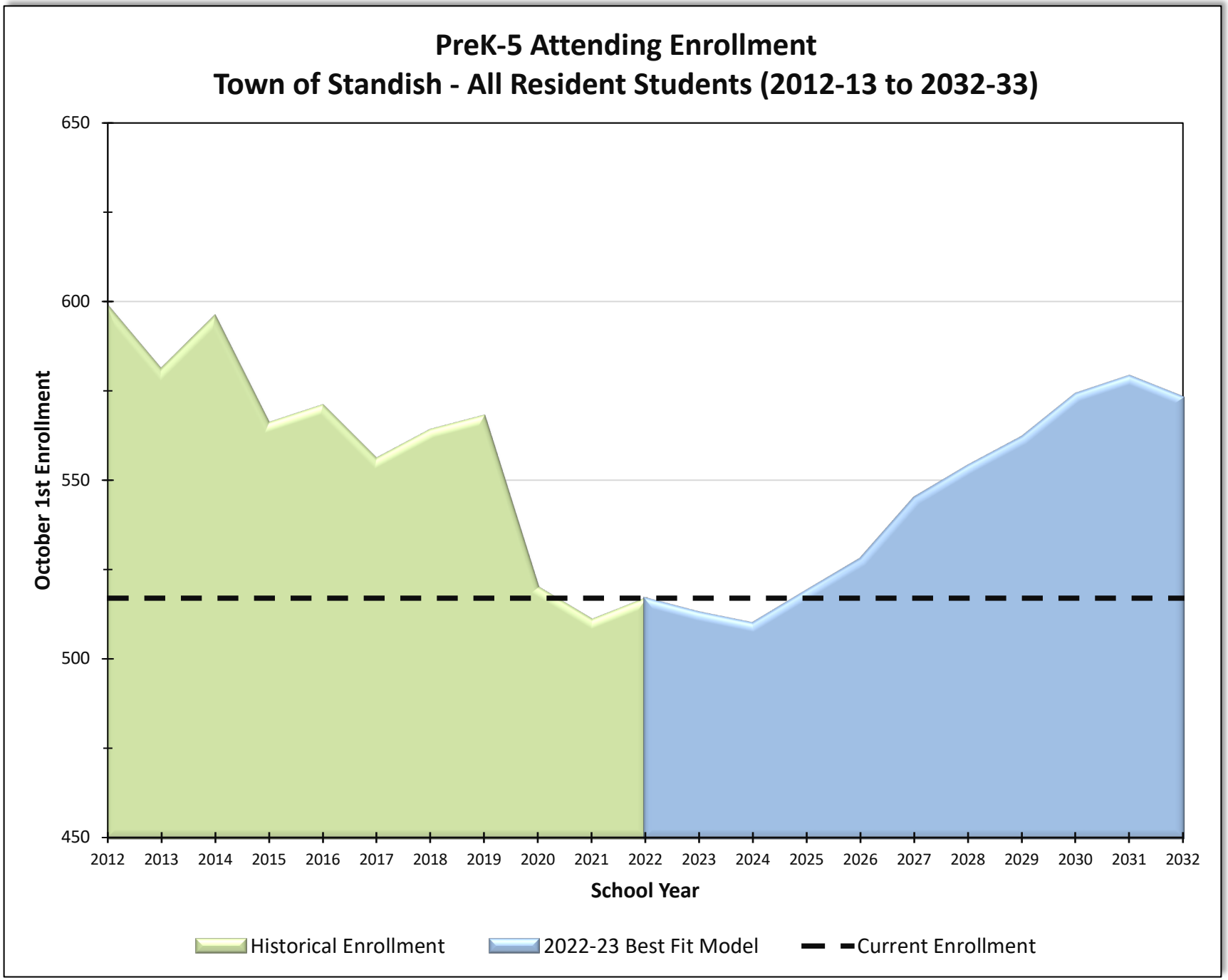
Enrollment Trends & Projections - Town of Standish - MSAD 6 Resident Enrollment - 2022-23 Best Fit Model

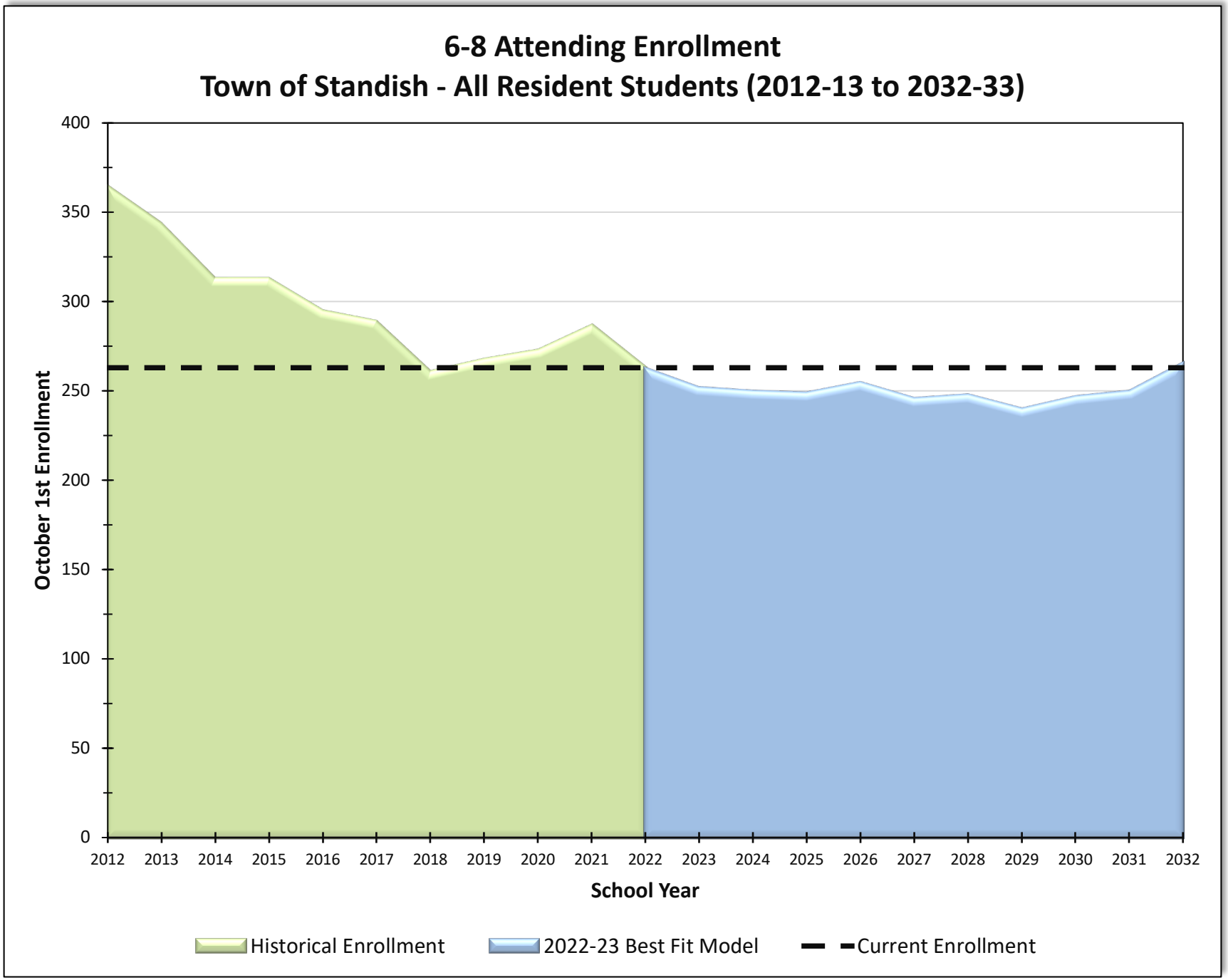
School Year	Resident Students Attending District Schools					Resident Students at NON-District Schools					Total ALL Standish Students				
	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-5	Total 6-8	Total PreK-8	Total 9-12	Total PreK-12
Historical															
2012-13	596	365	961	470	**1,431**	3	0	3	1	**4**	599	365	964	471	**1,435**
2013-14	577	341	918	463	**1,381**	4	3	7	7	**14**	581	344	925	470	**1,395**
2014-15	588	301	889	466	**1,355**	8	12	20	16	**36**	596	313	909	482	**1,391**
2015-16	558	304	862	444	**1,306**	8	9	17	34	**51**	566	313	879	478	**1,357**
2016-17	561	289	850	429	**1,279**	10	6	16	32	**48**	571	295	866	461	**1,327**
2017-18	553	281	834	410	**1,244**	3	8	11	29	**40**	556	289	845	439	**1,284**
2018-19	557	256	813	381	**1,194**	7	5	12	31	**43**	564	261	825	412	**1,237**
2019-20	561	265	826	380	**1,206**	7	3	10	21	**31**	568	268	836	401	**1,237**
2020-21	518	271	789	370	**1,159**	2	2	4	14	**18**	520	273	793	384	**1,177**
2021-22	507	282	789	347	**1,136**	4	5	9	10	**19**	511	287	798	357	**1,155**
2022-23	508	261	769	333	**1,102**	9	2	11	11	**22**	517	263	780	344	**1,124**
Projected															
2023-24	508	249	757	356	**1,113**	5	3	8	12	**20**	513	252	765	368	**1,133**
2024-25	505	247	752	361	**1,113**	5	3	8	12	**20**	510	250	760	373	**1,133**
2025-26	514	246	760	362	**1,122**	5	3	8	12	**20**	519	249	768	374	**1,142**
2026-27	523	252	775	344	**1,119**	5	3	8	11	**19**	528	255	783	355	**1,138**
2027-28	539	243	782	334	**1,116**	6	3	9	11	**20**	545	246	791	345	**1,136**
2028-29	548	245	793	325	**1,118**	6	3	9	11	**20**	554	248	802	336	**1,138**
2029-30	556	237	793	335	**1,128**	6	3	9	11	**20**	562	240	802	346	**1,148**
2030-31	568	244	812	327	**1,139**	6	3	9	11	**20**	574	247	821	338	**1,159**
2031-32	573	247	820	323	**1,143**	6	3	9	11	**20**	579	250	829	334	**1,163**
2032-33	567	263	830	329	**1,159**	6	3	9	11	**20**	573	266	839	340	**1,179**

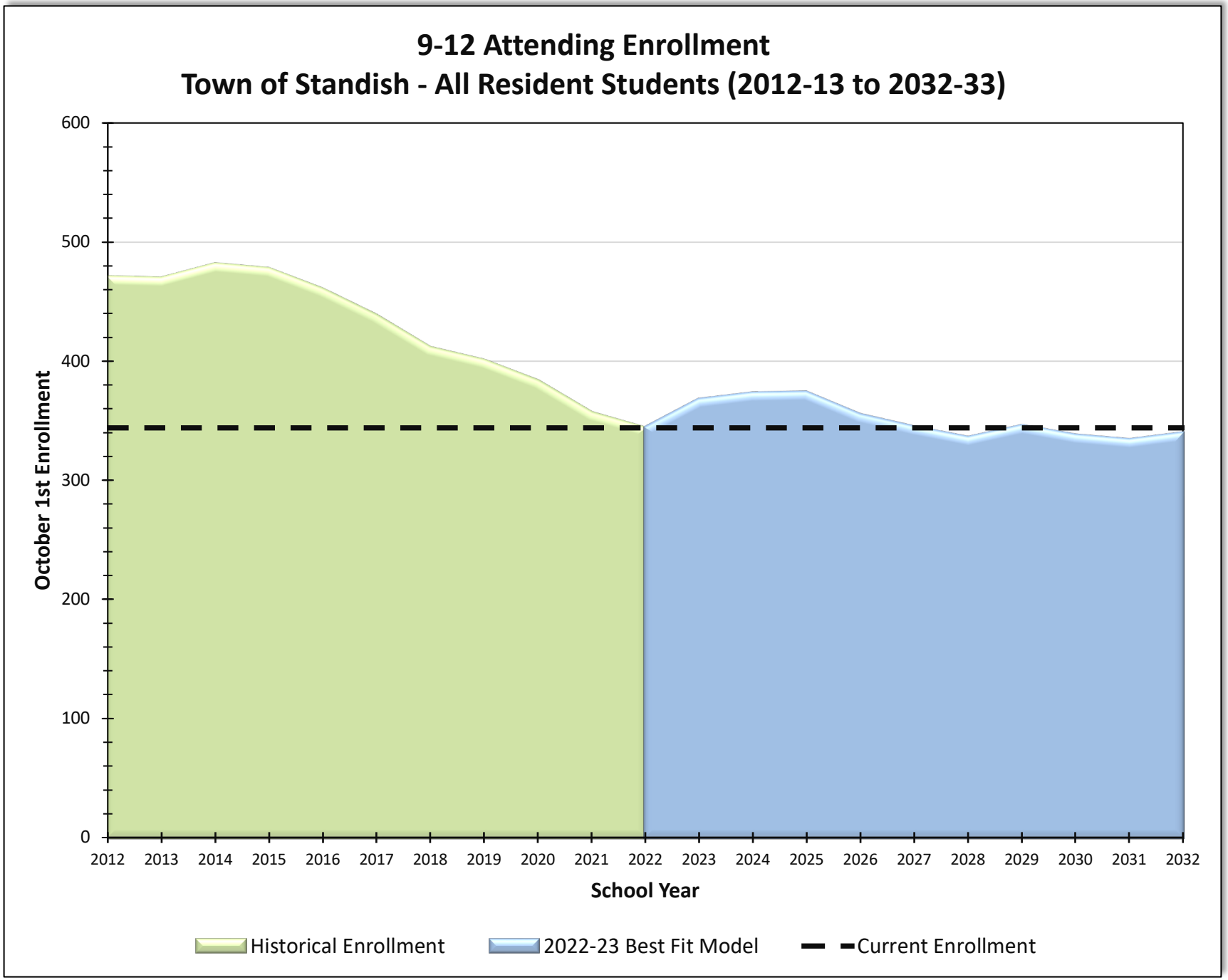
Notes: October 1st Enrollment data. Enrollment data contains all resident students but excludes 100% homeschooled students.

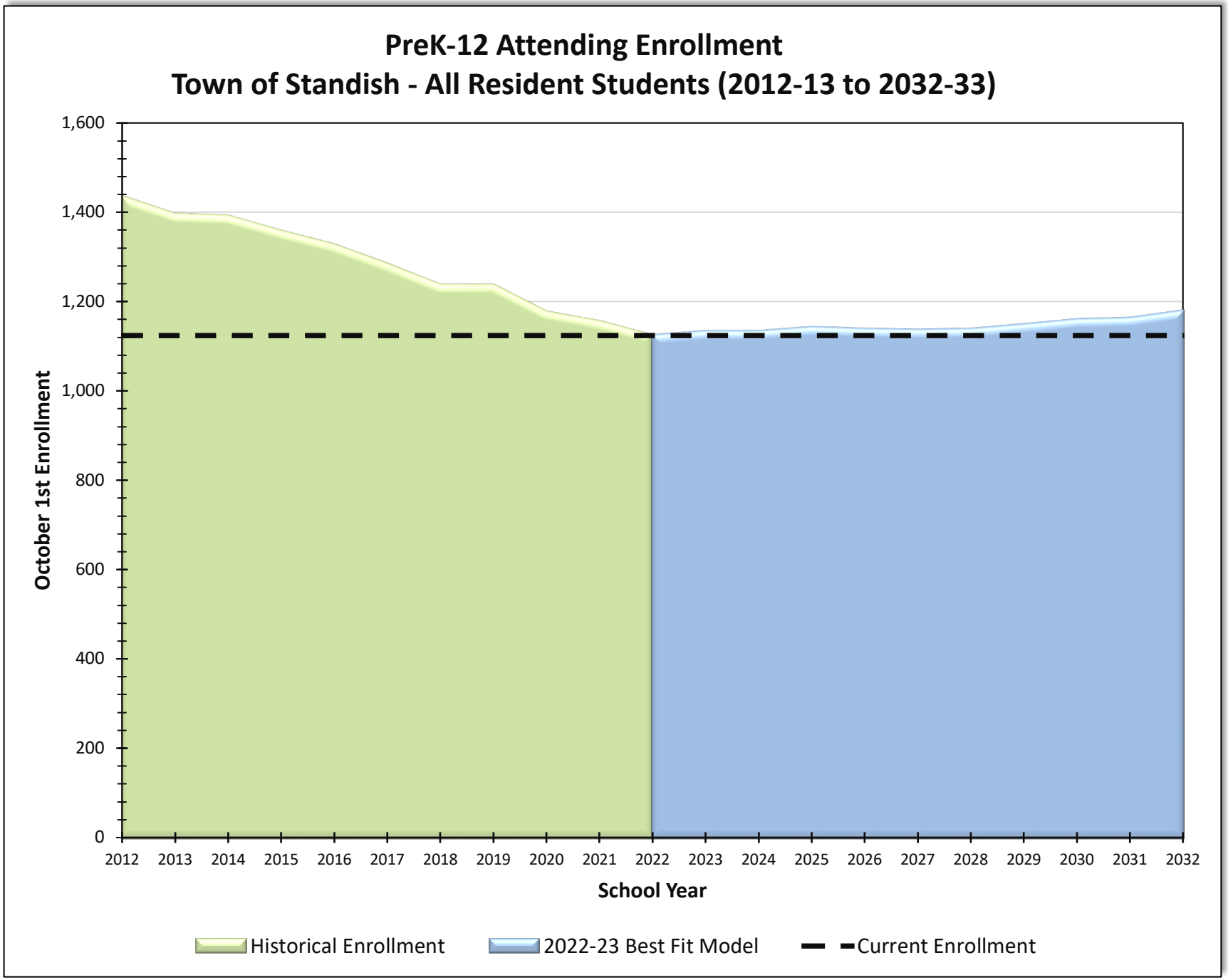
2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting


PreK-5 Attending Enrollment
Town of Standish - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
650
600
550
500
450
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment


6-8 Attending Enrollment
Town of Standish - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
400
350
300
250
200
150
100
50
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment


9-12 Attending Enrollment
Town of Standish - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
600
500
400
300
200
100
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment


PreK-12 Attending Enrollment
Town of Standish - All Resident Students (2012-13 to 2032-33)
October 1st Enrollment
1,600
1,400
1,200
1,000
800
600
400
200
0
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
School Year
Historical Enrollment
2022-23 Best Fit Model
Current Enrollment

Appendix Table 5.4
Town of Standish - MSAD 6 Resident Students - 2022-23 Best Fit Model

Enrollment Projection Ranges (+/-5% and +/-10%) - October 1st Enrollment

School Year	Grades PreK-5			Grades 6-8			Grades PreK-8			Grades 9-12			Total All Grades PreK-12		
	-10%	Proj.	+10%	-10%	Proj.	+10%	-10%	Proj.	+10%	-5%	Proj.	+5%	-Range	Proj.	+Range
2022-23*		**517**			**263**			**780**			**344**			**1,124**	
2023-24	462	**513**	564	227	**252**	277	689	**765**	841	350	**368**	386	1,039	**1,133**	1,227
2024-25	459	**510**	561	225	**250**	275	684	**760**	836	354	**373**	392	1,038	**1,133**	1,228
2025-26	467	**519**	571	224	**249**	274	691	**768**	845	355	**374**	393	1,046	**1,142**	1,238
2026-27	475	**528**	581	230	**255**	281	705	**783**	862	337	**355**	373	1,042	**1,138**	1,235
2027-28	491	**545**	600	221	**246**	271	712	**791**	871	328	**345**	362	1,040	**1,136**	1,233
2028-29	499	**554**	609	223	**248**	273	722	**802**	882	319	**336**	353	1,041	**1,138**	1,235
2029-30	506	**562**	618	216	**240**	264	722	**802**	882	329	**346**	363	1,051	**1,148**	1,245
2030-31	517	**574**	631	222	**247**	272	739	**821**	903	321	**338**	355	1,060	**1,159**	1,258
2031-32	521	**579**	637	225	**250**	275	746	**829**	912	317	**334**	351	1,063	**1,163**	1,263
2032-33	516	**573**	630	239	**266**	293	755	**839**	923	323	**340**	357	1,078	**1,179**	1,280

Enrollment Projection Ranges (+/-3%) - October 1st Enrollment

School Year	Grades PreK-5			Grades 6-8			Grades PreK-8			Grades 9-12			Total All Grades PreK-12		
	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	3%
2022-23*		**517**			**263**			**780**			**344**			**1,124**	
2023-24	498	**513**	528	244	**252**	260	742	**765**	788	357	**368**	379	1,099	**1,133**	1,167
2024-25	495	**510**	525	243	**250**	258	738	**760**	783	362	**373**	384	1,100	**1,133**	1,167
2025-26	503	**519**	535	242	**249**	256	745	**768**	791	363	**374**	385	1,108	**1,142**	1,176
2026-27	512	**528**	544	247	**255**	263	759	**783**	807	344	**355**	366	1,103	**1,138**	1,173
2027-28	529	**545**	561	239	**246**	253	768	**791**	814	335	**345**	355	1,103	**1,136**	1,169
2028-29	537	**554**	571	241	**248**	255	778	**802**	826	326	**336**	346	1,104	**1,138**	1,172
2029-30	545	**562**	579	233	**240**	247	778	**802**	826	336	**346**	356	1,114	**1,148**	1,182
2030-31	557	**574**	591	240	**247**	254	797	**821**	845	328	**338**	348	1,125	**1,159**	1,193
2031-32	562	**579**	596	243	**250**	258	805	**829**	854	324	**334**	344	1,129	**1,163**	1,198
2032-33	556	**573**	590	258	**266**	274	814	**839**	864	330	**340**	350	1,144	**1,179**	1,214

Notes: Enrollment data contains all resident students and excludes 100% homeschooled students.

2022-23 Best Fit Model Enrollment Projections for MSAD 6, Completed June 2023

Data produced by Wandell Consulting

Table IX-1

Trends in Civilian Labor Force, 2018 - 2022

Labor Market Area Influencing MSAD 6 vs. State of Maine

	MSAD 6				Portland-South Portland Metro				State of Maine			
	2018	2022	Change (2018-22)		2018	2022	Change (2018-22)		2018	2022	Change (2018-22)	
			#	%			#	%			#	%
Civilian Labor Force	15,592	15,190	-402	-2.6%	209,867	204,667	-5,200	-2.5%	703,138	674,875	-28,263	-4.0%
Employment	15,173	14,787	-386	-2.5%	204,448	199,623	-4,825	-2.4%	681,334	654,965	-26,369	-3.9%
Unemployment	419	403	-16	-3.8%	5,419	5,044	-375	-6.9%	22,272	19,910	-2,362	-10.6%
Unemployment Rate	2.7%	2.7%	0.0%		2.6%	2.5%	-0.1%		3.2%	3.0%	-0.2%	

Source: Maine Department of Labor, Center for Workforce Research and Information

Table IX-2 - Population Trends 2000 and 2010, 2020 MSAD 6 vs. Cumberland County, York County and the State of Maine							
Area	2000	2010	2020	2000-2010		2010-2020	
				#	%	#	%
TOTAL POPULATION							
Buxton	7,452	8,034	8,376	582	7.8%	342	4.3%
Hollis	4,114	4,281	4,745	167	4.1%	464	10.8%
Limington	3,403	3,713	3,892	310	9.1%	179	4.8%
Standish	9,285	9,874	10,244	589	6.3%	370	3.7%
MSAD 6	**24,254**	**25,902**	**27,257**	**1,648**	**6.8%**	**1,355**	**5.2%**
Cumberland County	265,612	287,674	303,069	22,062	8.3%	15,395	5.4%
York County	186,742	197,131	211,972	10,389	5.6%	14,841	7.5%
State	1,274,923	1,328,361	1,362,359	53,438	4.2%	33,998	2.6%
POPULATION UNDER 18							
Buxton	1,872	1,823	1,535	(49)	-2.6%	(288)	-15.8%
Hollis	1,102	942	966	(160)	-14.5%	24	2.5%
Limington	932	898	841	(34)	-3.6%	(57)	-6.3%
Standish	2,346	2,144	1,783	(202)	-8.6%	(361)	-16.8%
MSAD 6	**6,252**	**5,807**	**5,125**	**(445)**	**-7.1%**	**(682)**	**-11.7%**
Cumberland County	61,962	58,894	55,971	(3,068)	-5.0%	(2,923)	-5.0%
York County	46,273	42,091	38,508	(4,182)	-9.0%	(3,583)	-8.5%
State of Maine	301,238	274,533	252,274	(26,705)	-8.9%	(22,259)	-8.1%
SCHOOL-AGED POPULATION (5 to 17 Years of Age)							
Buxton	1,434	1,372	1,150	(62)	-4.3%	(222)	-16.2%
Hollis	845	680	742	(165)	-19.5%	62	9.1%
Limington	735	662	636	(73)	-9.9%	(26)	-3.9%
Standish	1,761	1,650	1,311	(111)	-6.3%	(339)	-20.5%
MSAD 6	**4,775**	**4,364**	**3,839**	**(411)**	**-8.6%**	**(525)**	**-12.0%**
Cumberland County	56,519	44,139	42,038	(12,380)	-21.9%	(2,101)	-4.8%
York County	35,257	31,780	29,133	(3,477)	-9.9%	(2,647)	-8.3%
State of Maine	230,512	205,013	190,797	(25,499)	-11.1%	(14,216)	-6.9%

Table IX-2 - Population Trends 2000 and 2010, 2020 MSAD 6 vs. Cumberland County, York County and the State of Maine							
Area	2000	2010	2020	2000-2010		2010-2020	
				#	%	#	%
FERTILE FEMALE POPULATION (Females 18 to 44 years of age)							
Buxton	1,494	1,272	1,343	(222)	-14.9%	71	5.6%
Hollis	851	715	730	(136)	-16.0%	15	2.1%
Limington	657	663	624	6	0.9%	(39)	-5.9%
Standish	2,169	1,987	1,792	(182)	-8.4%	(195)	-9.8%
MSAD 6	**5,171**	**4,637**	**4,489**	**(534)**	**-10.3%**	**(148)**	**-3.2%**
Cumberland County	53,660	49,568	52,764	(4,092)	-7.6%	3,196	6.4%
York County	35,191	31,357	32,946	(3,834)	-10.9%	1,589	5.1%
State of Maine	240,816	216,748	212,879	(24,068)	-10.0%	(3,869)	-1.8%
FEMALE POPULATION (Females 45+ years of age)							
Buxton	1,318	1,818	2,073	500	37.9%	255	14.0%
Hollis	685	968	1,177	283	41.3%	209	21.6%
Limington	614	748	905	134	21.8%	157	21.0%
Standish	1,475	2,033	2,495	558	37.8%	462	22.7%
MSAD 6	**4,092**	**5,567**	**6,650**	**1,475**	**36.0%**	**1,083**	**19.5%**
Cumberland County	53,435	66,770	76,362	13,335	25.0%	9,592	14.4%
York County	38,189	49,167	56,715	10,978	28.7%	7,548	15.4%
State of Maine	267,123	328,076	358,955	60,953	22.8%	30,879	9.4%
Source: 2000, 2010 and 2020 Decennial U.S. Census.							

Table IX-3 - Housing Trends 2000-2020
MSAD 6 vs. Cumberland County, York County and the State of Maine

Area	# of Year-Round Housing Units			Change (2000-2010)		Average # Added/Year	Change (2010-2020)		Average # Added/Year
	2000	2010	2020	# of units	% Change		# of units	% Change	
Buxton	2,858	3,225	3,414	367	12.8%	37	189	5.9%	19
Hollis	1,547	1,747	1,921	200	12.9%	20	174	10.0%	17
Limington	1,184	1,448	1,551	264	22.3%	26	103	7.1%	10
Standish	3,299	3,683	4,026	384	11.6%	38	343	9.3%	34
MSAD 6	**8,888**	**10,103**	**10,912**	**1,215**	**13.7%**	**122**	**809**	**8.0%**	**81**
Cumberland County	111,750	123,977	134,211	12,227	10.9%	1223	10,234	8.3%	1023
York County	77,629	87,103	93,622	9,474	12.2%	947	6,519	7.5%	652
State of Maine	550,361	603,360	625,906	52,999	9.6%	5300	22,546	3.7%	2255

Note: Year-Round Housing unit data excludes Seasonal and Migrant Housing. **Source:** 2000, 2010, and 2020 Decennial Census

Table IX-4
Trends in New Housing Units - 2002-2022 - MSAD 6

Calendar Year	Buxton	Hollis	Limington	Standish	New Housing Units
2002	41	45	44	70	**200**
2003	82	45	41	53	**221**
2004	76	42	39	42	**199**
2005	58	70	43	36	**207**
2006	33	24	29	42	**128**
2007	23	20	18	29	**90**
2008	13	6	14	18	**51**
2009	16	5	8	17	**46**
2010	12	12	8	18	**50**
2011	10	11	5	8	**34**
2012	15	17	10	18	**60**
2013	21	22	8	23	**74**
2014	19	28	4	30	**81**
2015	24	25	7	20	**76**
2016	23	41	18	38	**120**
2017	22	40	15	35	**112**
2018	21	25	30	38	**114**
2019	21	24	19	37	**101**
2020	22	25	19	38	**104**
2021	38	29	43	44	**154**
2022	35	27	31	40	**133**
Most Recent 10-Year Avg. (2013 to 2022)	**25**	**29**	**19**	**34**	**107**
5-Year Avg. (2013 to 2017)	**22**	**31**	**10**	**29**	**93**
Most Recent 5-Year Avg. (2018 to 2022)	**25**	**26**	**28**	**39**	**121**
Most Recent 3-Year Avg. (2020 to 2022)	**27**	**27**	**31**	**41**	**130**

Source: State of the Cities Data Systems (SOCDS), Office of Policy Development and Research, US Department of Housing and Urban Development

Five Year Total					
2005-09	143	125	112	142	522
2006-10	97	67	77	124	365
2007-11	74	54	53	90	271
2008-12	66	51	45	79	241
2009-13	74	67	39	84	264
2010-14	77	90	35	97	299
2011-15	89	103	34	99	325
2012-16	102	133	47	129	411
2013-17	109	156	52	146	463
2014-18	109	159	74	161	503
2015-19	111	155	89	168	523
2016-20	109	155	101	186	551
2017-21	124	143	126	192	585
2018-22	137	130	142	197	606

Note: 2017-21 will be used to compare to 2022 enrollment since building a home can take up to a year and new students are more likely to be accounted for in the following October 1st enrollment from the new home build.

Table IX-5
Births, First Grade Enrollments, Net Preschool Migration and New Housing Units Added
MSAD 6

Birth Year	# of Births	1st Grade Class Year	1st Grade Enrollment	Net Migration	Building Years	New Housing Units Added	Ratio Migr/HU
2006-07	336	10/13	277	-59	2007-11	241	-0.245
2007-08	272	10/14	273	1	2008-12	264	0.004
2008-09	291	10/15	276	-15	2009-13	299	-0.050
2009-10	243	10/16	240	-3	2010-14	325	-0.009
2010-11	246	10/17	255	9	2011-15	411	0.022
2011-12	282	10/18	260	-22	2013-17	463	-0.048
2012-13	253	10/19	268	15	2014-18	503	0.030
2013-14	263	10/20	238	-25	2015-19	523	-0.048
2014-15	278	10/21	254	-24	2016-20	551	-0.044
2015-16	271	10/22	229	-42	2017-21	585	-0.072
6 Yr Avg. (10/11 - 15/16)	266	**6 Year Avg. (17-22)**	251	-15	**Avg. 11-21**	506	-0.029
5 Yr Avg. (11/12 - 15/16)	269	**5 Year Avg. (18-22)**	250	-20	**Avg. 13-21**	525	-0.037
3 Yr Avg. (13/14 - 15/16)	271	**3 Year Avg. (20-22)**	240	-30	**Avg. 15-21**	553	-0.055

Sources: Births - Bureau of Health Statistics and Data Management, Maine Department of Health and Human Services, Bureau of Vital Records Administration. 1st Grade Enrollment - October 1st 2006 to 2017 from MDOE, 2018 to 2022 from MSAD 6. Residential New Housing Units - State of the Cities Data Systems (SOCDS), Office of Policy Development and Research, US Department of Housing and Urban Development

Table IX-6
Net Elementary (1-6) Migration and New Housing Unit Development
MSAD 6

Enrollment Years	Net Migration	Permit Year	# of New Housing Units	Ratio Migr/Perm
2012-13 to 2013-14	-29	2012	60	-0.483
2013-14 to 2014-15	-13	2013	74	-0.176
2014-15 to 2015-16	-17	2014	81	-0.210
2015-16 to 2016-17	14	2015	76	0.184
2016-17 to 2017-18	9	2016	120	0.075
2017-18 to 2018-19	-31	2017	112	-0.277
2018-19 to 2019-20	2	2018	114	0.018
2019-20 to 2020-21	-67	2019	101	-0.663
2020-21 to 2021-22	-18	2020	104	-0.173
2021-22 to 2022-23	10	2021	154	0.065
10 yr Avg (11/12 - 20/21)	-14	**10 yr Avg (12-21)**	100	-0.141
5 yr Avg (16/17 - 20/21)	-21	**5 yr Avg (17-21)**	117	-0.178
3 yr Avg (18/19 - 20/21)	-25	**3 yr Avg (19-21)**	120	-0.209

Sources: Net Migration - Calculated based on October 1st Resident Enrollment data from MDOE. **Residential New Housing Units:** 2012-2022 from State of the Cities Data Systems (SOCDS), Office of Policy Development and Research, US Department of Housing and Urban Development

APPENDIX B

INFORMATION ON ENROLLMENT DATA & METHODOLOGIES USED FOR PROJECTION STUDIES

Enrollment Data and Methodologies Used for Projection Studies

Enrollment Data Used for the Projection Study:

- The enrollment data used for these projections is based on the October 1st resident enrollment count by school year. Historical enrollment data is obtained directly from the Maine Department of Education. If a study is completed in October to December of a school year the data may need to be obtained directly from the school district. Sometimes data supplied by the school district is different from what MDOE will show because of reporting differences, inconsistencies or errors adjusted over time. Although it does not happen often, it is important to understand it can happen and is often the source of differences in enrollment count between studies.
- It is also important to understand the resident enrollment and attending enrollment figures will not necessarily correlate with EPS funding counts of students. Specifics on what is included in the different types of enrollment counts, please visit the MDOE data center: https://www.maine.gov/doe/data-reporting/reporting/warehouse

Types of Enrollment Data:

1. **Total Resident Enrollment:** the count of all students living in the district's town(s) regardless of where they attend school.

2. **Attending Resident Enrollment:** the count of resident students attending a district's school(s).

3. **Enrollment of Resident Students Attending Out of District Schools:** the count of resident students attending other district schools either as tuition students, choice tuition students, superintendent agreements, or other such similar situations.

4. **Non-Resident Attending Enrollment:** is the count of students from other districts attending the resident district's schools.

5. **Private School Enrollment:** is the count of students attending private schools. Enrollment of students attending private schools is often excluded from the study because private schools do not always submit their enrollment counts, or MDOE did not always include the data in the resident enrollment count. For example, the enrollment for one year will show 10 students attending private school X, the following year

there are zero students attending private school X, then in the next school year private school X suddenly has an enrollment of 15 students. These variations in enrollment count only serve to distort the migration trends used to the make the projections.

However, private school student enrollment will remain if the district in question pays for students to attend the private school. An example of this is Saco students attending Thornton Academy. In these cases, the private school enrollment count is consistently reported and there are no issues with consistency of historical data.

6. **Home Schooled Students:** is the count of students educated at home. Historical enrollment data of home-schooled students is inconsistent. Some districts do a good job of tracking home schooled students by grade, others only have grade group data, some have the information for several schoolyears while others may only have information readily available on the most recent couple of school years. MDOE also has historical home-schooled enrollment, but the counts are not as readily available. Therefore, home schooled enrollment is generally not projected unless a district can provide consistent data.

PAST Projections verse CURRENT Projections: When comparing past enrollment studies to future studies, it is important to understand the differences in enrollment data. With the older enrollment studies a detailed breakdown of enrollment was often not readily available. In other cases, the data supplied by a district for the past study was adjusted by the district and/or MDOE following the completion of the projections. When comparing past studies to current studies, be sure to compare data that shows the same type of enrollment count. In some districts there is very little difference between resident attending enrollment and total resident enrollment, while in other districts there is a significant difference in the enrollment count. **Methodology Notes:**

- **Resident Births:**

  When making projections, the calendar year birth figures are not used to determine the number of resident births in a year. To project future entering first grade class sizes the "birth year" is based on when a student is eligible to enroll, or from October 15th of one year to October 14th of the next. Because the data supplied by the office of Data, Research, and Vital Statistics, Division of Public Health Systems, Maine Centers for Disease Control and Prevention at the Maine Department of Health and Human Services for October is based on October 1st to the 31st, the October births are split in half so that one half is put into one year and the other half is put into the following year's birth figures. This allows the cohort survival model to more accurately project entering first grade class sizes.

Birth data from calendar year 2022 is preliminary and provisional, however, historically this data has been very accurate.

- **First Grade Class Sizes:**

  The size of the first grade class is influenced by two factors: the number of births to residents of a community during the year that is six years prior to the enrollment year; and, net migration of preschool aged children (number of preschool aged children moving into the community minus the number of preschool aged children moving out of the community) during the first grade enrollment year and the year that was six years prior. The level of preschool migration can be measured by the ratio of enrollment for the entering first grade class to the number of births to residents in the year that was six years prior.

- **Net Migration Ratios:**

  In making grade-to-grade projections, the historical average grade-to-grade survival ratios over the last three to ten years are analyzed. The average that displays the "strongest" statistical relationship to existing class sizes are used to project future enrollment.

  When net migration ratios are discussed throughout the study, a ratio higher than 1.000 indicates a net in-migration of children occurred, and a ratio less than 1.000 indicates a net out-migration of children occurred.