NESDEC

New England School Development Council

Hanover Public Schools
Hanover, MA

2022-23 Enrollment Projection Report

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Enrollment Summary

The global pandemic continues to influence our nation's public health and economic stability in unpredictable ways. As such, it is still too early to identify many of the factors that could impact school enrollments. Over the past school year, we have seen fluctuations in the real estate market and job trends, which have impacted student attendance patterns. Moreover, during the past school year, we have seen how school enrollment patterns can differ substantially from one district to another, with some districts losing students while others experience an influx of students.

We are pleased to send you this report displaying the past, present, and projected enrollments for the District. These ten-year projections are designed to provide the District with yearly, up-to-date enrollment information that can be used by boards and administrators for effective planning and allocation of resources. Included in this report are graphs representing historical and projected grade-by-grade enrollments, as well as historical and projected enrollments in grade combinations. We have received the figures given to us by the District, and we assume that the method of collecting the enrollment data has been consistent from year to year.

Enrollment projections are more reliable in Years #1-4 in the future and less reliable in the "out-years." Projections six to ten years out may serve as a guide to future enrollments and are useful for planning purposes. In light of this, NESDEC has added a "Second Semester Refresher" enrollment projection at no cost to affiliates. (For more information please refer to the Reliability and Use of This Document section.)

NESDEC is pleased to provide you with enrollment projections for school year 2022/2023.

The NESDEC enrollment projection fell within 42 students of the K-12 total, 2,533 students projected vs. 2,491 enrolled. One variance of -27 students occurred at Preschool, 85 projected vs 112 enrolled. Ratios have been adjusted.

Births increased by +16 from a previous ten-year average of 121 to a projected average of 137. In most districts, enrollments in Grades 1-8 are very stable. However, there have been increases in 8 of the 8 most recent years, leading to a net increase averaging +18 students per year.

Over the next three years, K-1 enrollments are projected to increase by +48 students, Grades 2-4 enrollments are projected to decrease by -32 students, Grades 5-8 enrollments are projected to increase by +54 students, and Grades 9-12 enrollments are projected to increase by +9 students, as students move through the grades.

Historical Enrollment

School District: Hanover, MA

11/30/2022

Historical Enrollment By Grade

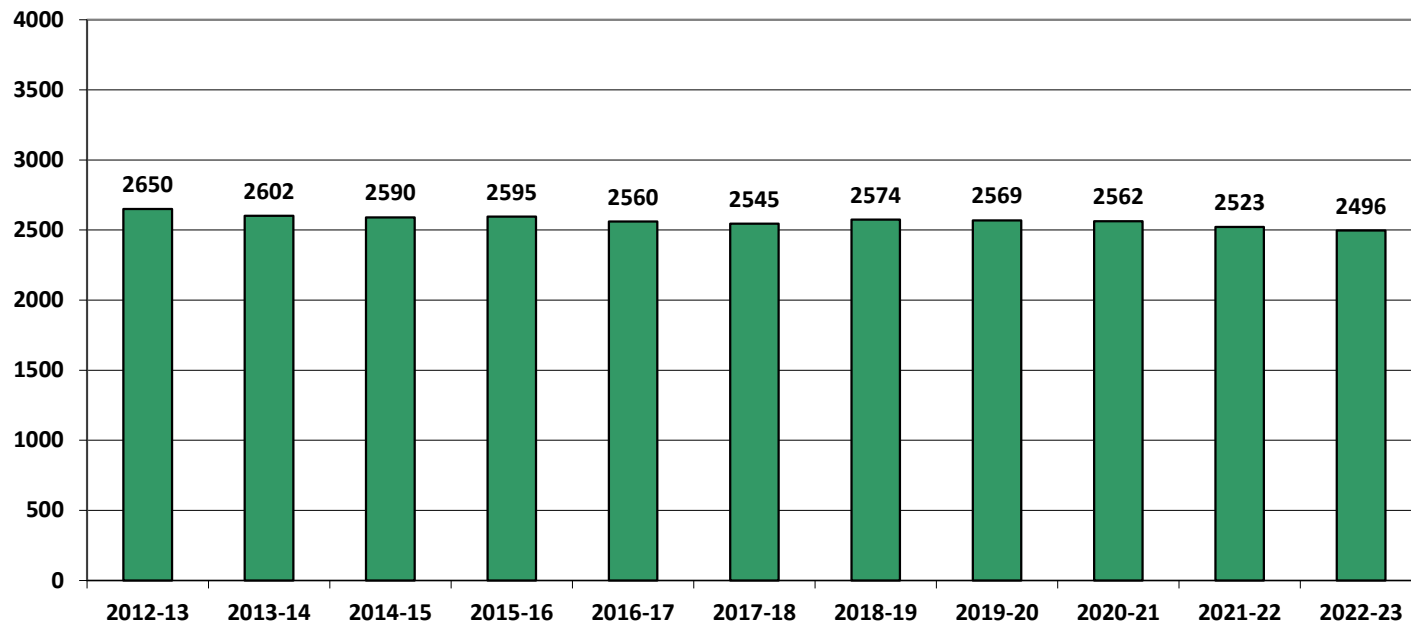| Birth Year	Births*	School Year	PK	K	1	2	3	4	5	6	7	8	9	10	11	12	UNGR	K-12	PK-12
2007	114	2012-13	36	169	205	163	209	232	208	233	223	233	198	194	201	179	3	2650	2686
2008	118	2013-14	40	157	185	213	170	214	227	207	232	219	194	194	192	195	3	2602	2642
2009	133	2014-15	51	176	167	189	221	168	214	231	198	235	191	202	203	192	3	2590	2641
2010	121	2015-16	54	184	186	172	200	216	180	213	228	200	218	188	200	207	3	2595	2649
2011	125	2016-17	65	187	184	188	172	205	219	180	209	226	179	219	192	198	2	2560	2625
2012	94	2017-18	65	154	198	189	194	178	214	223	178	216	206	183	216	193	3	2545	2610
2013	126	2018-19	71	198	171	204	194	204	180	218	220	181	194	209	183	215	3	2574	2645
2014	127	2019-20	80	198	200	169	207	195	207	185	215	224	172	191	213	190	3	2569	2649
2015	130	2020-21	52	192	211	204	176	209	197	212	183	216	182	175	188	212	5	2562	2614
2016	126	2021-22	89	179	201	224	208	181	217	197	217	174	173	183	170	196	3	2523	2612
2017	124	2022-23	112	180	190	208	228	209	185	216	191	212	150	167	185	170	5	2496	2608

*Birth data provided by Public Health Vital Records Departments in each state.

Historical Enrollment in Grade Combinations

Year	K-4	PK-4	K-1	PK-1	2-4	PK-8	K-8	5-8	9-12
2012-13	978	1014	374	410	604	1911	1875	897	772
2013-14	939	979	342	382	597	1864	1824	885	775
2014-15	921	972	343	394	578	1850	1799	878	788
2015-16	958	1012	370	424	588	1833	1779	821	813
2016-17	936	1001	371	436	565	1835	1770	834	788
2017-18	913	978	352	417	561	1809	1744	831	798
2018-19	971	1042	369	440	602	1841	1770	799	801
2019-20	969	1049	398	478	571	1880	1800	831	766
2020-21	992	1044	403	455	589	1852	1800	808	757
2021-22	993	1082	380	469	613	1887	1798	805	722
2022-23	1015	1127	370	482	645	1931	1819	804	672

Historical Percentage Changes

Year	K-12	Diff.	%
2012-13	2650	0	0.0%
2013-14	2602	-48	-1.8%
2014-15	2590	-12	-0.5%
2015-16	2595	5	0.2%
2016-17	2560	-35	-1.3%
2017-18	2545	-15	-0.6%
2018-19	2574	29	1.1%
2019-20	2569	-5	-0.2%
2020-21	2562	-7	-0.3%
2021-22	2523	-39	-1.5%
2022-23	2496	-27	-1.1%
Change		-154	-5.8%

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Historical Enrollment

K-12, School Years 2012-13 to 2022-23

School Year	Enrollment
2012-13	2650
2013-14	2602
2014-15	2590
2015-16	2595
2016-17	2560
2017-18	2545
2018-19	2574
2019-20	2569
2020-21	2562
2021-22	2523
2022-23	2496

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Projected Enrollment

School District: Hanover, MA

Enrollment Projections By Grade*

Birth Year	Births*		School Year	PK	K	1	2	3	4	5	6	7	8	9	10	11	12	UNGR	K-12	PK-12
2017	124		2022-23	112	180	190	208	228	209	185	216	191	212	150	167	185	170	5	2496	2608
2018	133		2023-24	89	197	189	195	213	231	214	187	214	189	182	150	168	187	5	2521	2610
2019	142		2024-25	90	210	207	194	199	216	236	217	185	212	163	182	151	170	5	2547	2637
2020	133		2025-26	91	197	221	213	198	202	221	239	215	183	182	163	183	153	5	2575	2666
2021	147	(prov.)	2026-27	92	218	207	227	218	201	207	224	237	213	157	182	164	185	5	2645	2737
2022	136	(est.)	2027-28	93	201	229	213	232	221	206	210	222	235	183	157	183	166	5	2663	2756
2023	138	(est.)	2028-29	94	204	211	235	218	235	226	209	208	220	202	183	158	185	5	2699	2793
2024	139	(est.)	2029-30	95	206	214	217	240	221	241	229	207	206	189	202	184	160	5	2721	2816
2025	139	(est.)	2030-31	96	205	216	220	222	243	226	244	227	205	177	189	203	186	5	2768	2864
2026	140	(est.)	2031-32	97	207	215	222	225	225	249	229	242	225	176	177	190	206	5	2793	2890
2027	138	(est.)	2032-33	98	205	217	221	227	228	230	252	227	240	194	176	178	192	5	2792	2890

Note: Ungraded students (UNGR) often are high school students whose anticipated years of graduation are unknown, or students with special needs - UNGR not included in Grade Combinations for 7-12, 9-12, etc.

Based on an estimate of births   Based on children already born   Based on students already enrolled

*Birth data provided by Public Health Vital Records Departments in each state.

Projected Enrollment in Grade Combinations*

Year	K-4	PK-4	K-1	PK-1	2-4	PK-8	K-8	5-8	9-12
2022-23	1015	1127	370	482	645	1931	1819	804	672
2023-24	1025	1114	386	475	639	1918	1829	804	687
2024-25	1026	1116	417	507	609	1966	1876	850	666
2025-26	1031	1122	418	509	613	1980	1889	858	681
2026-27	1071	1163	425	517	646	2044	1952	881	688
2027-28	1096	1189	430	523	666	2062	1969	873	689
2028-29	1103	1197	415	509	688	2060	1966	863	728
2029-30	1098	1193	420	515	678	2076	1981	883	735
2030-31	1106	1202	421	517	685	2104	2008	902	755
2031-32	1094	1191	422	519	672	2136	2039	945	749
2032-33	1098	1196	422	520	676	2145	2047	949	740

Projected Percentage Changes

Year	K-12	Diff.	%
2022-23	2496	0	0.0%
2023-24	2521	25	1.0%
2024-25	2547	26	1.0%
2025-26	2575	28	1.1%
2026-27	2645	70	2.7%
2027-28	2663	18	0.7%
2028-29	2699	36	1.4%
2029-30	2721	22	0.8%
2030-31	2768	47	1.7%
2031-32	2793	25	0.9%
2032-33	2792	-1	0.0%
Change		296	11.9%

*Projections should be updated annually to reflect changes in in/out-migration of families, real estate sales, residential construction, births, and similar factors.
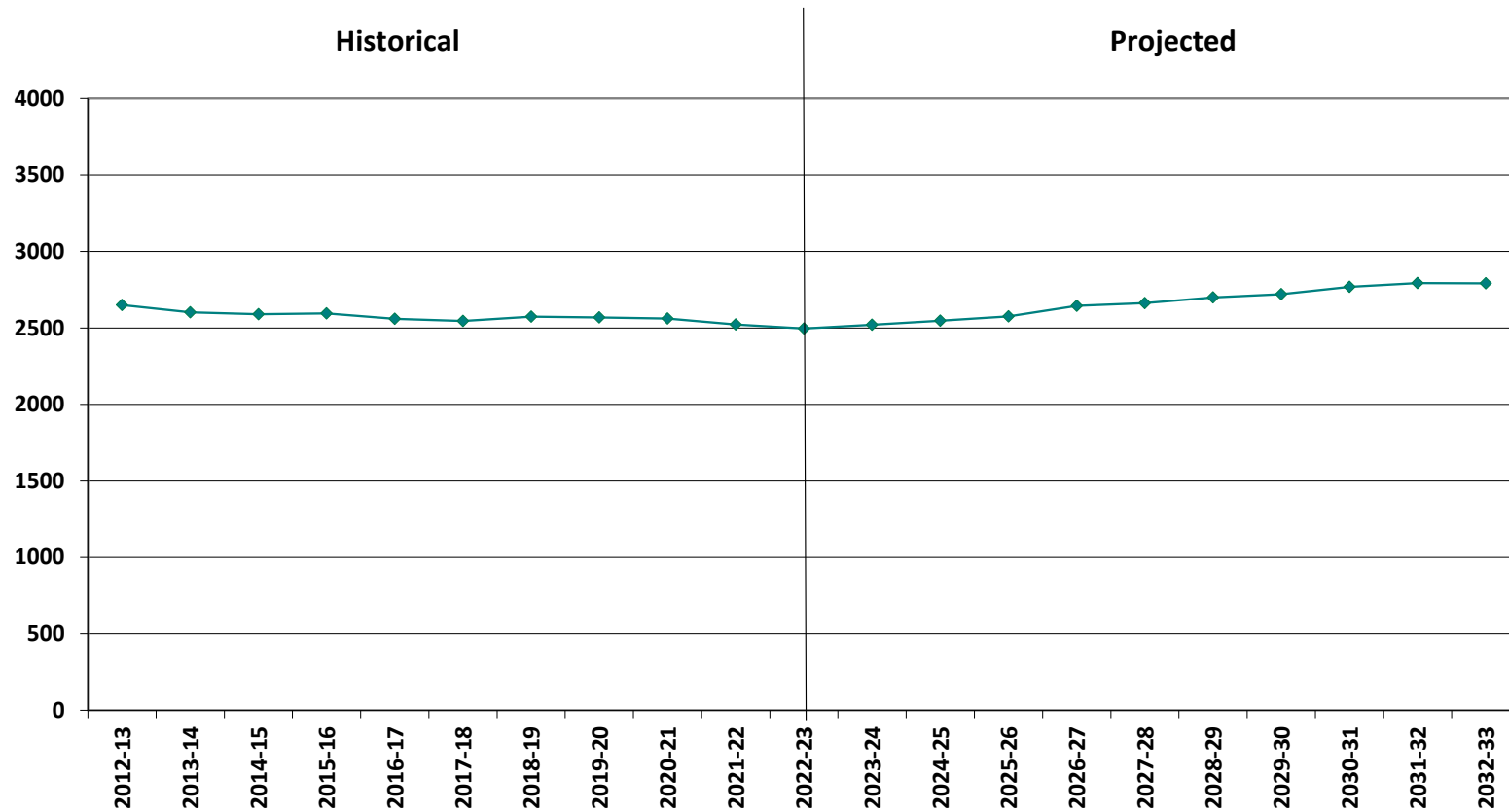
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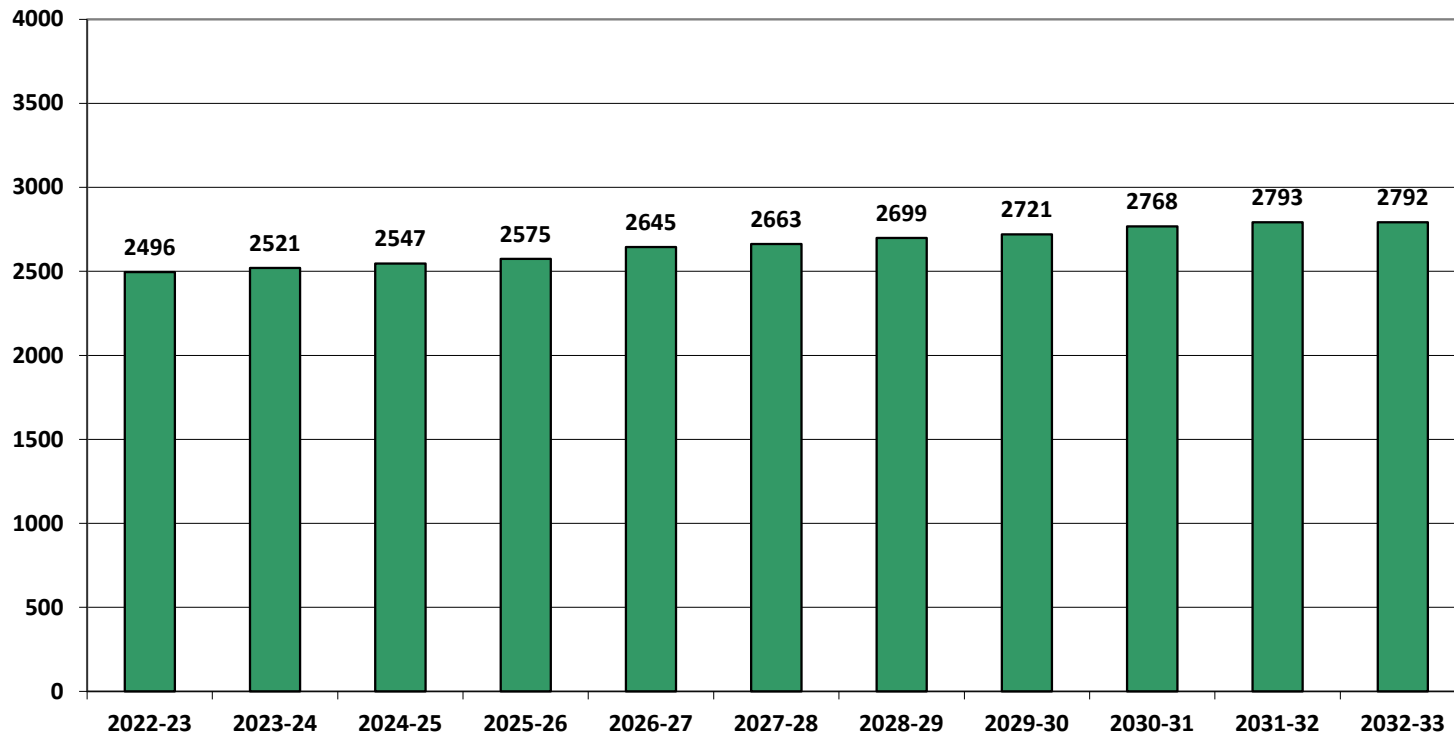
Historical & Projected Enrollment

Historical   Projected

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Historical & Projected Enrollments in Grade Combinations

Historical

Projected

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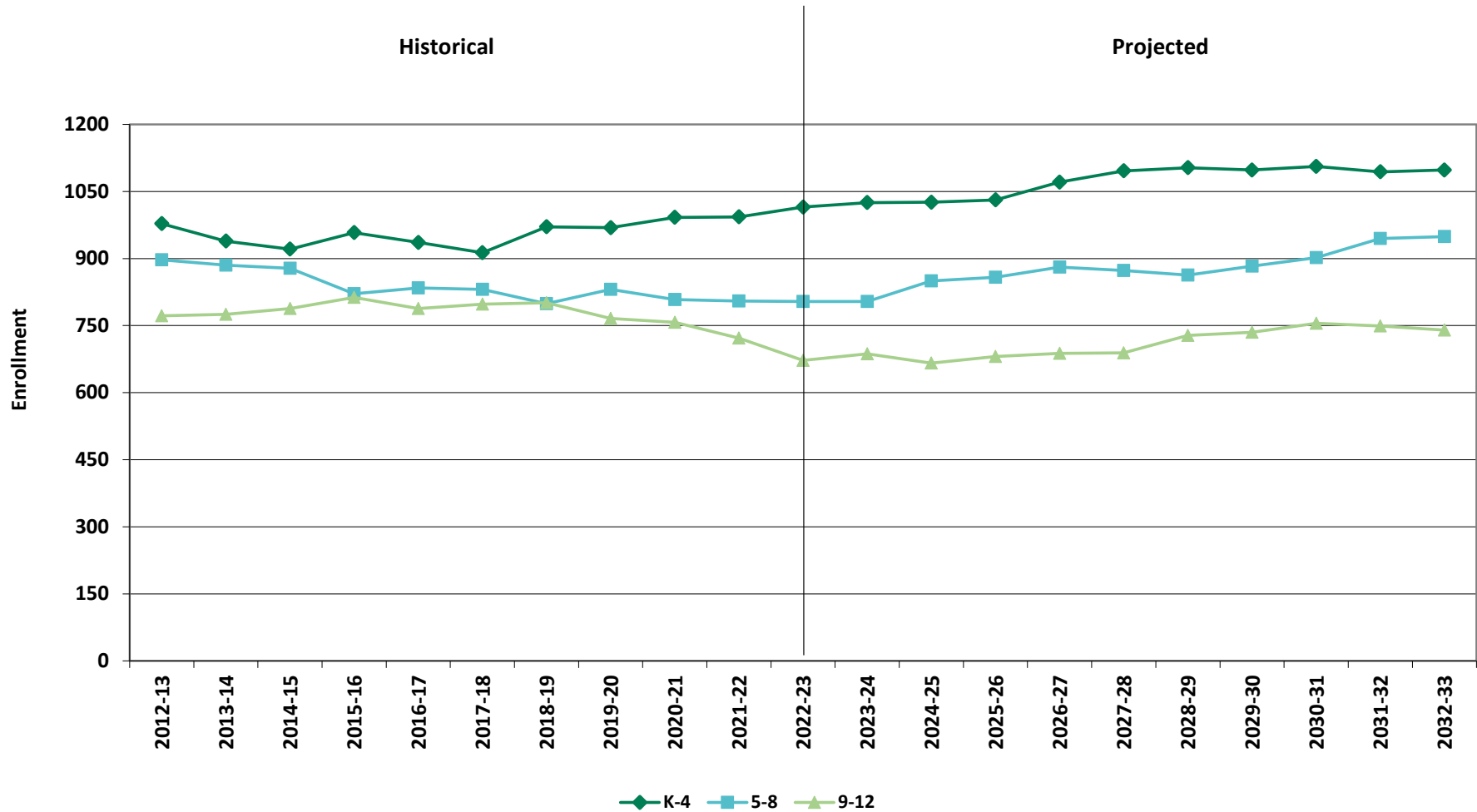
Historical & Projected Enrollments in Grade Combinations
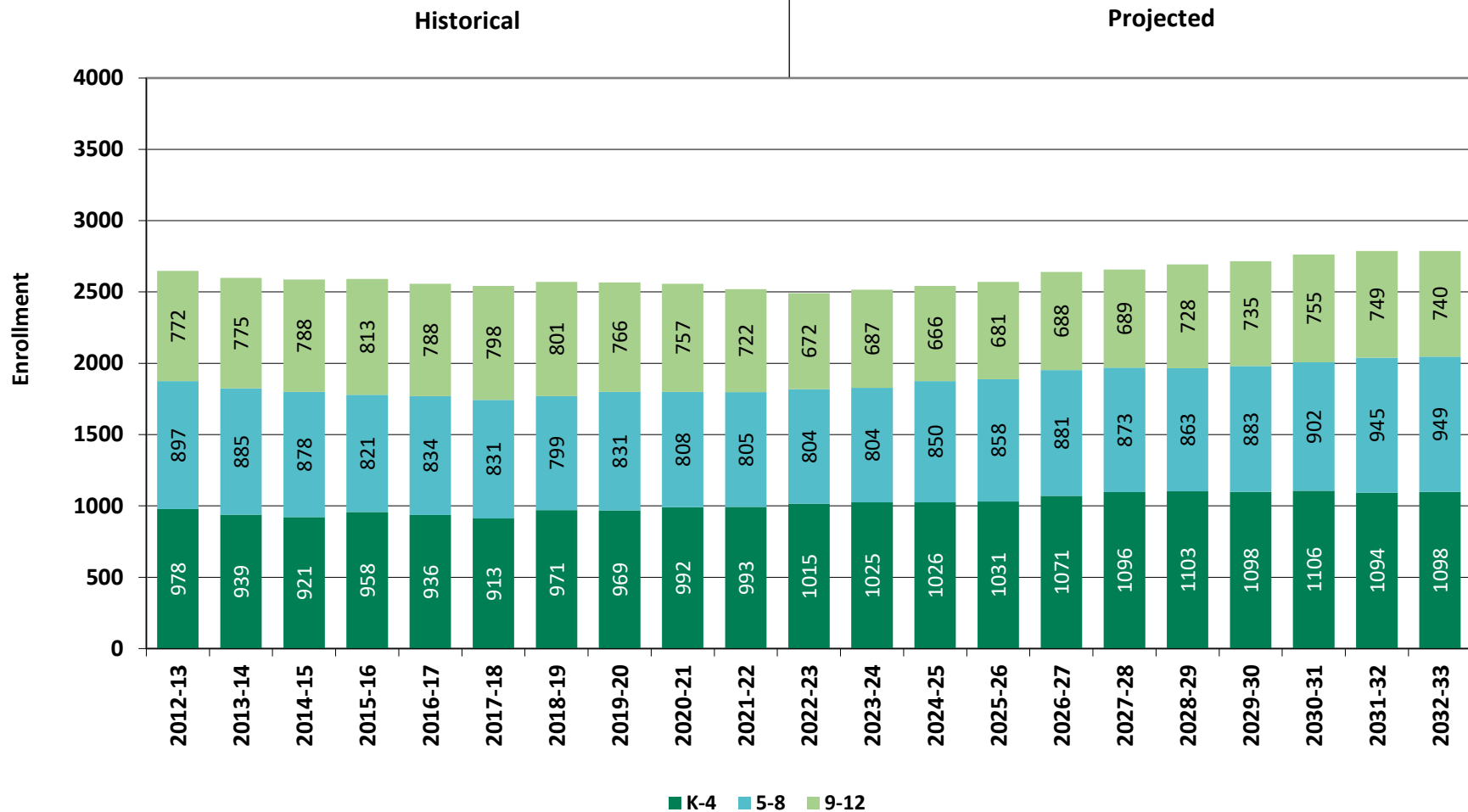
Birth-to-Kindergarten Relationship

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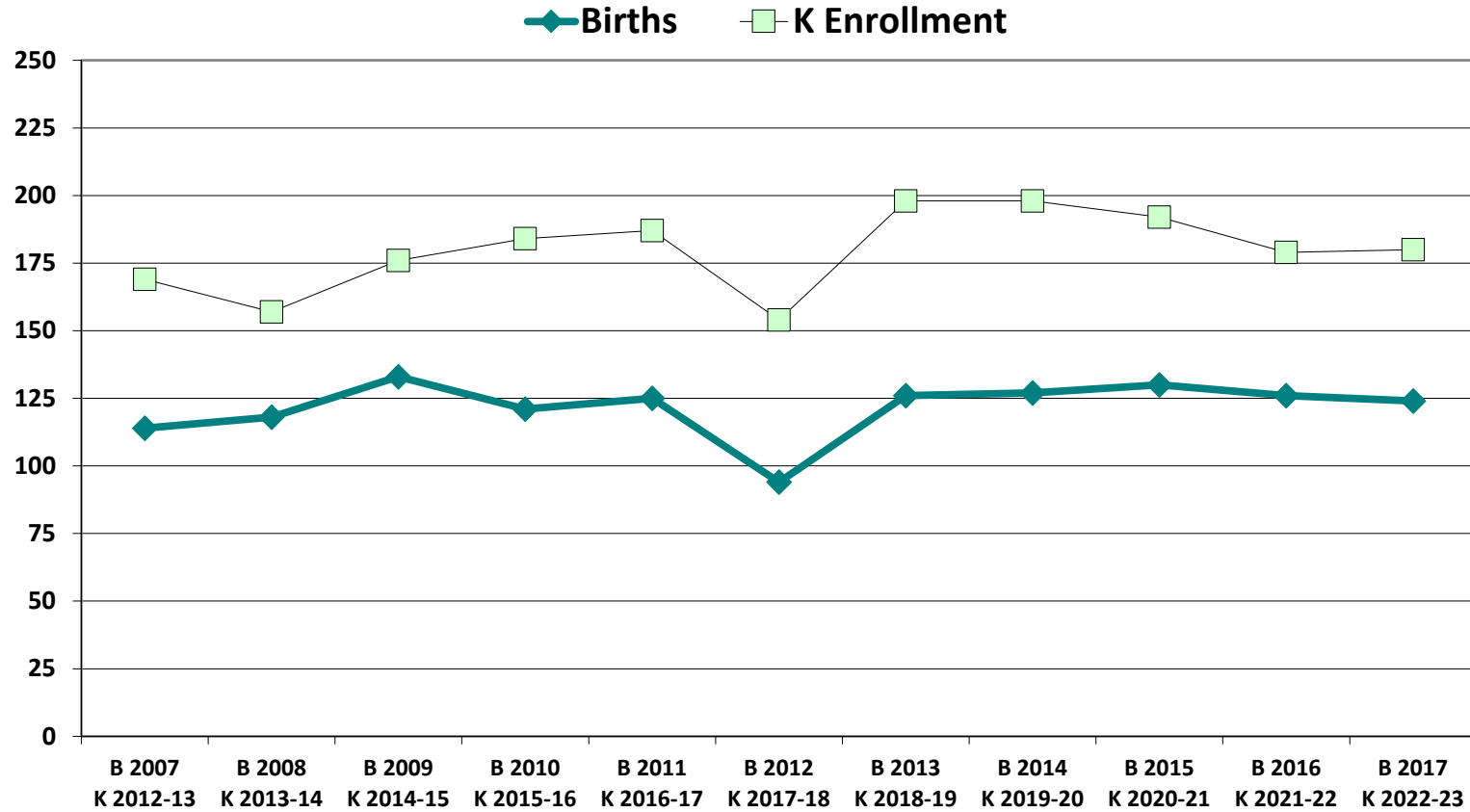
Additional Information

Building Permits Issued (Source: HUD)		
Year	Single-Family	Multi-Units
2012	17	0
2018	21	0
2019	21	0
2020	23	0
2021	9	0
2022	3 to date	0 to date

Enrollment History*		
Year	Career-Tech 9-12 Total	Non-Public K-12 Total
2012-13	67	209
2018-19	44	n/a
2019-20	45	114
2020-21	57	n/a
2021-22	59	0
2022-23	64	164

Residents in Non-Public Independent and Parochial Schools (General Education)*													
Oct. 1 Enrollment	K	1	2	3	4	5	6	7	8	9	10	11	12	K-12 TOTAL
	1	3	4	2	4	3	6	14	14	25	37	20	31	164

K-12 Home-Schooled Students*	
2022	14

K-12 Residents in Charter or Magnet Schools, or Choiced-out*	
2022	26

K-12 Special Education Outplaced Students*	
2022	34

K-12 Tuitioned-In, Choiced-In, & Other Non-Residents*	
2022	4

*The above data were provided by the District, with the exception of building permit data (provided by HUD).

"n/a" signifies that information was not provided by District.

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New England's PK-12 Enrollment Trends

From 2020 to 2030, the US Department of Education anticipates changes in PK-12 enrollment of -2.4% in the South, -6.5% in the West, -3.8% in the Midwest, -6.2% in the Northeast, and a total of -4.3% nationwide.

State	Fall 2020 PK - 12	Fall 2030 Projected	PK-12 Decline	% Change 2020-2030
CT	509,058	475,600	-33,458	-6.6%
ME	172,455	161,800	-10,655	-6.2%
MA	921,712	879,900	-41,812	-4.5%
NH	169,027	144,600	-24,427	-14.5%
RI	139,184	130,200	-8,984	-6.5%
VT	82,401	74,600	-7,801	-9.5%

Source: U.S. Department of Education, National Center for Education Statistics**,**
Enrollment In Public Schools fall 1990 to fall 2030, Table 203.20, March 2022.

Although most New England Districts are seeing a decline in the number of births, NESDEC's experience indicates that the impact on enrollment varies from District to District. Almost half of New England Districts have been growing in PK-12 enrollment, and a similar number are declining (often in rural areas), with the other Districts remaining stable.

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PROJECTION METHODOLOGY

Cohort component (survival) technique is a frequently used method of preparing enrollment forecasts. NESDEC uses this method, but modifies it in order to move away from forecasts that are wholly computer- or formula-driven. Such modification permits the incorporation of important, current district-specific information into the generation of enrollment forecasts (such as in/out-migration of students, resident births, HUD-reported building permits, etc.). Percentages are calculated from the historical enrollment data to determine a reliable percentage of increase or decrease in enrollment between any two grades. For example, if 100 students enrolled in Grade 1 in 2018-19 increased to 104 students in Grade 2 in 2019-20, the percentage of survival would be 104%, or a ratio of 1.04. Ratios are calculated between each pair of grades or years in school over several recent years.

After study and analysis of the historical ratios, and based upon a reasonable set of assumptions regarding births, migration rates, retention rates, etc., ratios most indicative of future growth patterns are determined for each pair of grades. The ratios thus selected are applied to the present enrollment statistics to project into future years. The ratios are the key factors in the reliability of the projections, assuming validity of the data at the starting point.

RELIABILITY OF ENROLLMENT PROJECTIONS

Projections can serve as useful guides to school administrators for educational planning. Enrollment projections are more reliable in Years #1-4 in the future and less reliable in the "out-years." Projections six to ten years out may serve as a guide to future enrollments and are useful for planning purposes, but they should be viewed as subject to change given the likelihood of potential shifts in underlying assumptions/trends, such as student migration, births as they relate to Kindergarten enrollment, and other factors.

Projections that are based upon **the children who already are in the district** (the current K-12 population only) will be the most reliable. The second level of reliability will be for those children already **born into the community but not yet old enough to be in school.** The least reliable category is the group for which an estimate must be made **to predict the number of births**, thereby adding additional uncertainty. See these three multi-colored groupings on the "Projected Enrollment" tab.

Annual updates allow for early identification of recent changes in historical trends. When the actual enrollment in a grade is significantly different (higher or lower) from the projected number, it is important (yet difficult) to determine whether this is a one-year aberration or whether a new trend may have begun. **In light of this possibility, NESDEC urges all school districts to have updated enrollment forecasts developed by NESDEC each October.** This service is available at no cost to affiliated school districts.

USING THIS INFORMATION ELECTRONICALLY

If you would like to extract the information contained in this report for your own documents or presentations, you can use screenshots, which can be inserted into PowerPoint slides, Word documents, etc. Because screenshots create graphics, the image is not editable. Please feel free to contact us if you need assistance in this matter, by phone (508-481-9444) or by email (ep@nesdec.org).