



Hanover Public Schools
Hanover, MA

School Year 2023-24 Enrollment Projection Report
Spring Update

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Enrollment Summary Spring Update

NESDEC is pleased to send you this report displaying the past, present, and projected enrollments for your District. It is important to update enrollment projections every year to identify changes in enrollment patterns. Ten-year projections are designed to provide your 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 received the enrollment data from the District, and we assume that the method of collecting this 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. For more information, please refer to the Methodology, Reliability and Use of this Document section.

We are pleased to send you this Spring Update. We have reviewed the updated Spring Enrollment and note that the enrollment growth is similar to the previous projection for Grades K-12. We look forward to fully updating enrollment data in the Fall of 2024.

Historical Enrollment Spring Update

School District: Hanover, MA

4/2/2024

NOTE: Spring enrollment data provided by the District.

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
2008	118	2013-14	40	157	185	213	170	214	227	207	232	219	194	194	192	195	< 10 **	2602	2642
2009	133	2014-15	51	176	167	189	221	168	214	231	198	235	191	202	203	192	< 10 **	2590	2641
2010	121	2015-16	54	184	186	172	200	216	180	213	228	200	218	188	200	207	< 10 **	2595	2649
2011	125	2016-17	65	187	184	188	172	205	219	180	209	226	179	219	192	198	< 10 **	2560	2625
2012	94	2017-18	65	154	198	189	194	178	214	223	178	216	206	183	216	193	< 10 **	2545	2610
2013	126	2018-19	71	198	171	204	194	204	180	218	220	181	194	209	183	215	< 10 **	2574	2645
2014	127	2019-20	80	198	200	169	207	195	207	185	215	224	172	191	213	190	< 10 **	2569	2649
2015	130	2020-21	52	192	211	204	176	209	197	212	183	216	182	175	188	212	< 10 **	2562	2614
2016	126	2021-22	89	179	201	224	208	181	217	197	217	174	173	183	170	196	< 10 **	2523	2612
2017	124	2022-23	112	180	190	208	228	209	185	216	191	212	150	167	185	170	< 10 **	2496	2608
2018	133	Fall 2023	118	208	183	193	209	229	210	187	212	191	180	152	173	183	< 10 **	2516	2634
2024 Spring Update			117	205	182	195	209	229	214	186	211	191	177	152	169	182	< 10 **	2507	2624

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

** < 10 Not reported, to protect subgroups with fewer than 10 students.

Historical Enrollment in Grade Combinations									
School Year	PK-4	K-4	K-1	PK-1	2-4	K-8	5-8	5-12	9-12
2013-14	979	939	342	382	597	1824	885	1660	775
2014-15	972	921	343	394	578	1799	878	1666	788
2015-16	1012	958	370	424	588	1779	821	1634	813
2016-17	1001	936	371	436	565	1770	834	1622	788
2017-18	978	913	352	417	561	1744	831	1629	798
2018-19	1042	971	369	440	602	1770	799	1600	801
2019-20	1049	969	398	478	571	1800	831	1597	766
2020-21	1044	992	403	455	589	1800	808	1565	757
2021-22	1082	993	380	469	613	1798	805	1527	722
2022-23	1127	1015	370	482	645	1819	804	1476	672
Fall 2023	1140	1022	391	509	631	1822	800	1488	688
Spring 2024	1137	1020	387	504	633	1822	802	1482	680

Historical Percentage Changes			
School Year	K-12	Diff.	%
2013-14	2602		
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%
Fall 2023	2516	20	0.8%
Change	-86		-3.3%

Projected Enrollment Spring Update

School District: Hanover, MA

4/2/2024

Note: Spring projections are based on updated Spring enrollment data.

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
2018	133		Spring 2024	117	205	182	195	209	229	214	186	211	191	177	152	169	182	< 10 **	2507	2624
2019	142		2024-25	118	210	213	188	199	212	234	216	183	207	162	176	153	171	< 10 **	2529	2647
2020	133	(prov.)	2025-26	118	197	218	220	192	201	216	236	213	180	176	161	177	155	< 10 **	2547	2665
2021	147	(prov.)	2026-27	118	217	205	225	224	194	205	218	232	209	153	175	162	179	< 10 **	2603	2721
2022	130	(prov.)	2027-28	119	192	226	212	229	227	198	207	215	228	178	152	176	164	< 10 **	2609	2728
2023	137	(est.)	2028-29	119	203	200	233	216	232	232	199	204	211	194	177	153	178	< 10 **	2637	2756
2024	138	(est.)	2029-30	119	204	211	207	238	219	237	234	196	201	179	193	178	155	< 10 **	2657	2776
2025	137	(est.)	2030-31	119	203	212	218	211	241	223	239	230	193	171	178	194	180	< 10 **	2698	2817
2026	138	(est.)	2031-32	120	204	211	219	222	214	246	225	235	226	164	170	179	196	< 10 **	2716	2836
2027	136	(est.)	2032-33	120	201	212	218	223	225	218	248	222	231	192	163	171	181	< 10 **	2710	2830
2028	137	(est.)	2033-34	120	203	209	219	222	226	230	220	244	218	196	191	164	173	< 10 **	2720	2840

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.

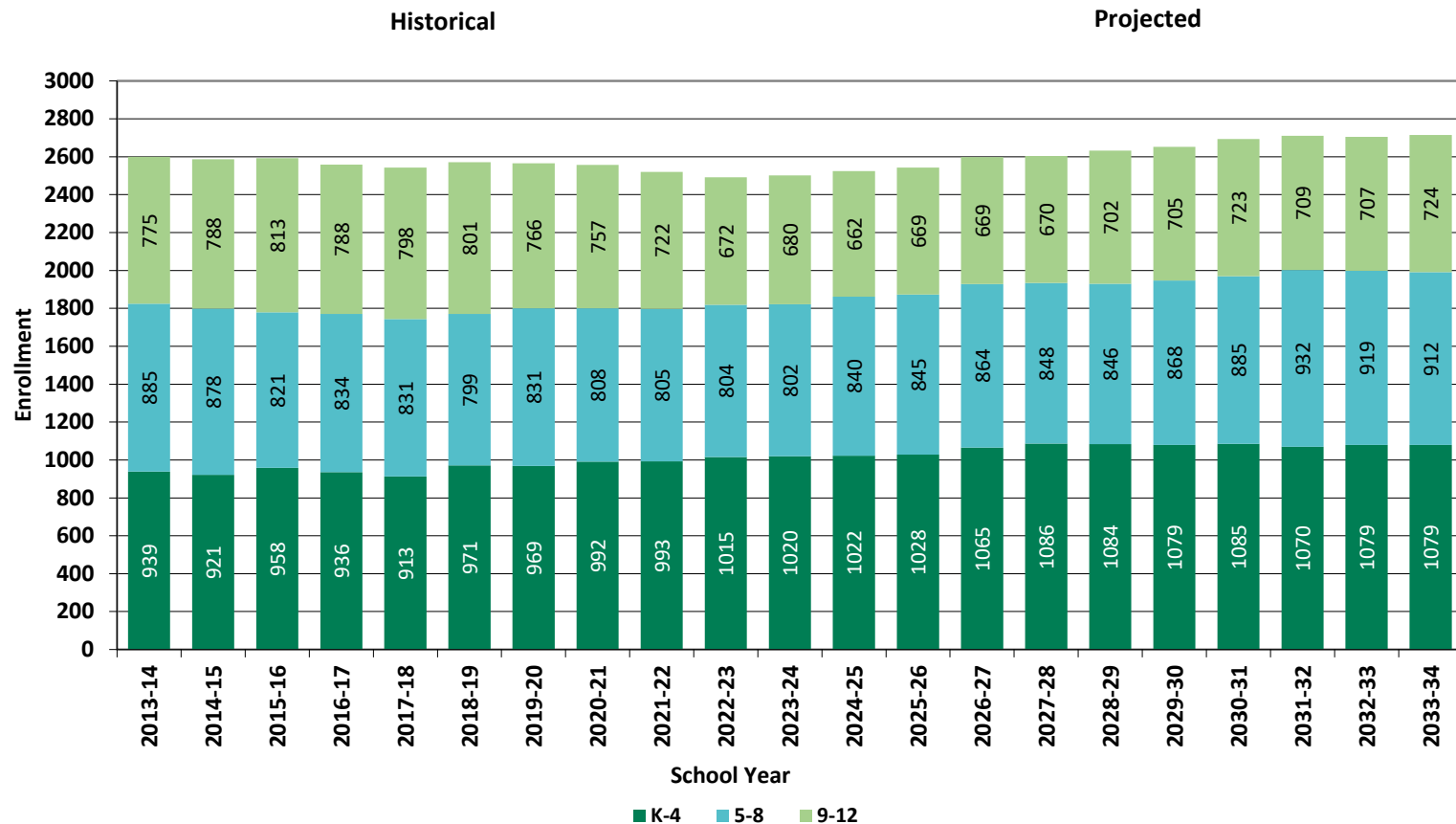
** < 10 Not reported, to protect subgroups with fewer than 10 students.

Projected Enrollment in Grade Combinations*									
School Year	PK-4	K-4	K-1	PK-1	2-4	K-8	5-8	5-12	9-12
Spring 2024	1137	1020	387	504	633	1822	802	1482	680
2024-25	1140	1022	423	541	599	1862	840	1502	662
2025-26	1146	1028	415	533	613	1873	845	1514	669
2026-27	1183	1065	422	540	643	1929	864	1533	669
2027-28	1205	1086	418	537	668	1934	848	1518	670
2028-29	1203	1084	403	522	681	1930	846	1548	702
2029-30	1198	1079	415	534	664	1947	868	1573	705
2030-31	1204	1085	415	534	670	1970	885	1608	723
2031-32	1190	1070	415	535	655	2002	932	1641	709
2032-33	1199	1079	413	533	666	1998	919	1626	707
2033-34	1199	1079	412	532	667	1991	912	1636	724

Projected Percentage Changes			
School Year	K-12	Diff.	%
Spring 2024	2507		
2024-25	2529	22	0.9%
2025-26	2547	18	0.7%
2026-27	2603	56	2.2%
2027-28	2609	6	0.2%
2028-29	2637	28	1.1%
2029-30	2657	20	0.8%
2030-31	2698	41	1.5%
2031-32	2716	18	0.7%
2032-33	2710	-6	-0.2%
2033-34	2720	10.00	0.4%
Change	213		8.5%

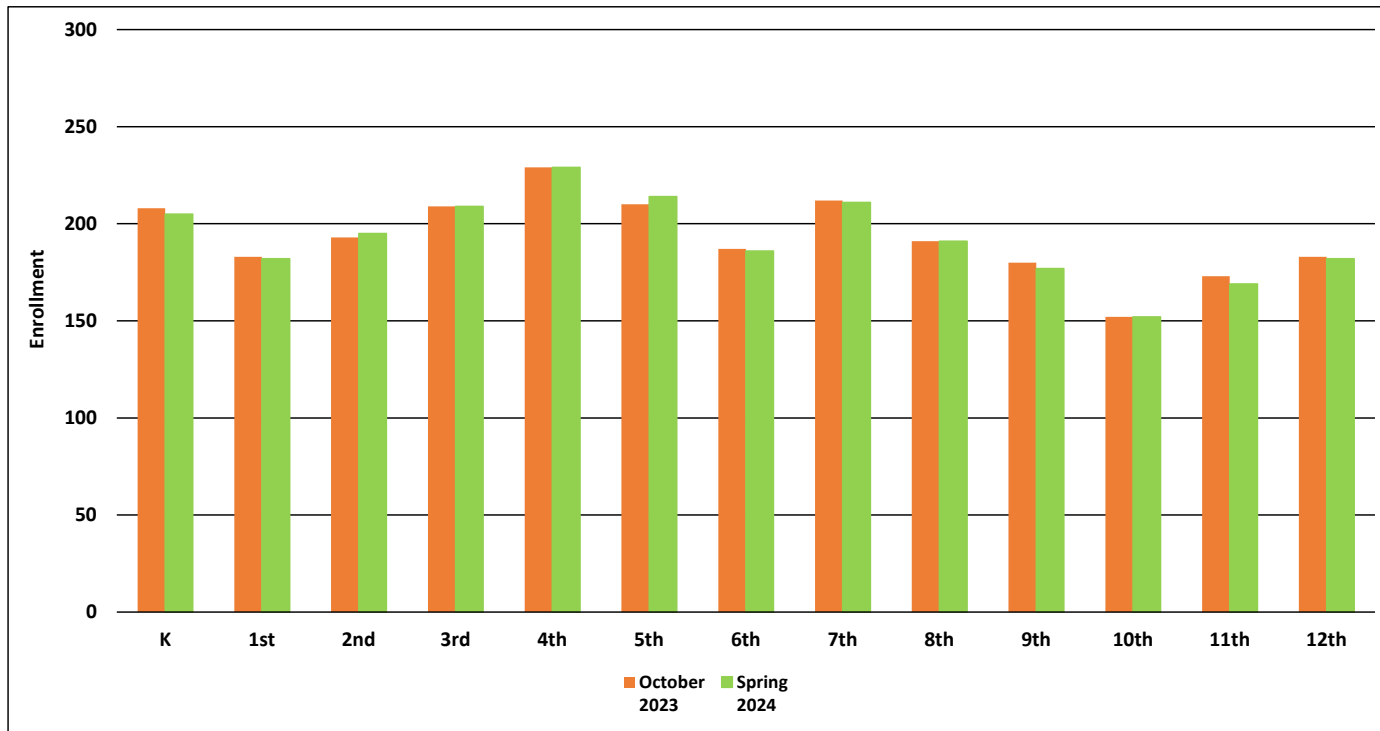
*Projections should be updated annually to reflect changes in in/out-migration of families, real estate sales, residential construction, births, and similar factors.

Historical & Spring Projected Enrollments in Grade Combinations



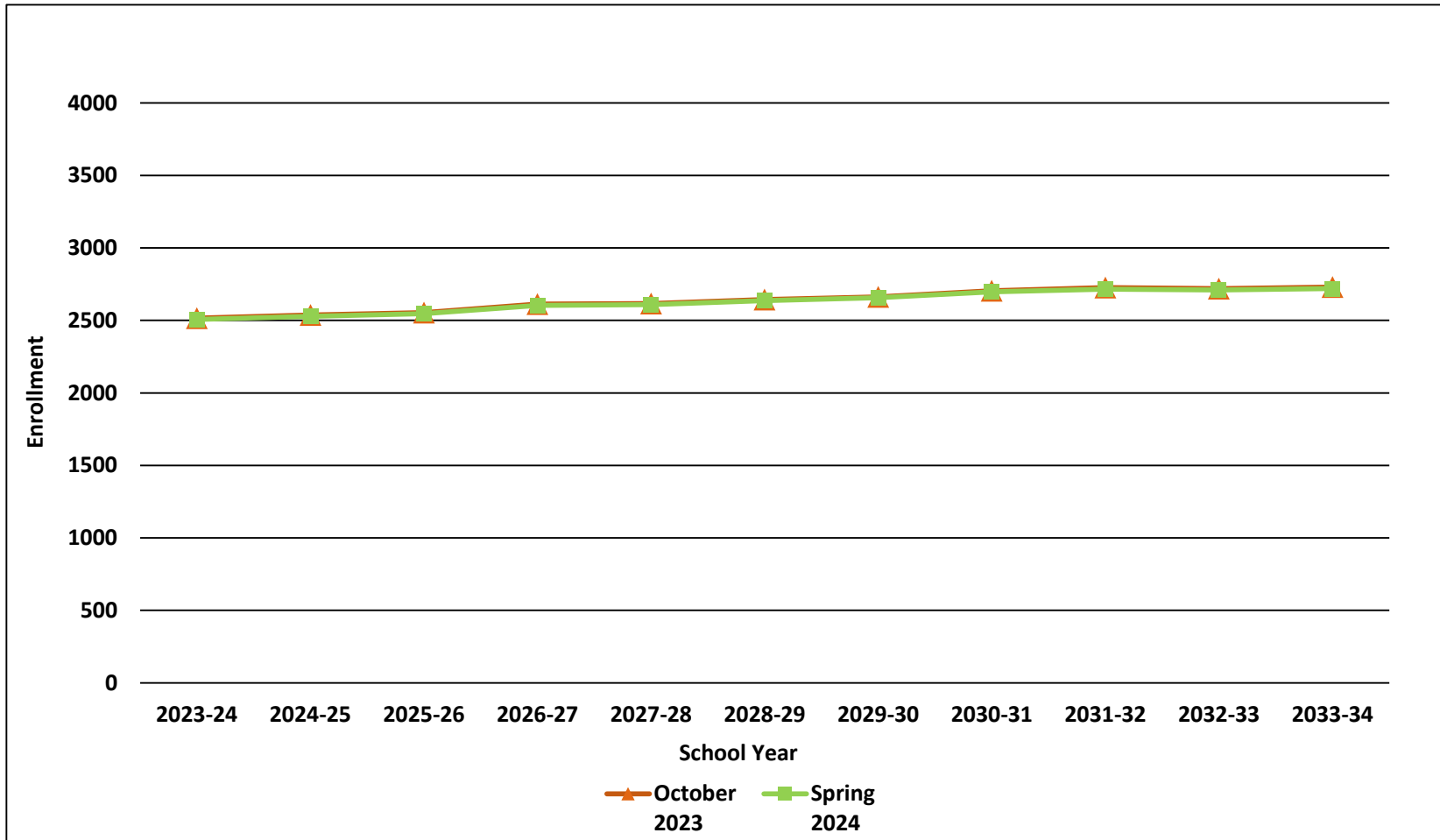
Note: Projections are based on Spring 2024 data.

October 2023 vs. Spring 2024 Enrollment by Grade



	K	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th
October 2023	208	183	193	209	229	210	187	212	191	180	152	173	183
Spring 2024	205	182	195	209	229	214	186	211	191	177	152	169	182

Grades K-12 Projections October 2023 vs. Spring 2024



Methodology, Reliability and Use of this Document

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 demographic 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 2022-23 increased to 104 students in Grade 2 in 2023-24, 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).