



**Shrewsbury Public Schools
Shrewsbury, MA**

**2021-22 Enrollment Projection Report
Second Semester Spring Update**

Second Semester Spring Update 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.

Of note, projections are generally more reliable when they are closest in time to the current year. Projections four to ten years out may serve as a guide to future enrollments.

We are pleased to send you this Second Semester Spring Update.

We have reviewed the updated Spring Enrollment and note that for Grades K-4 and 9-12 are similar to the previous projection. Grades 5-6 enrollments are projected to decrease by a total of -45 students. and Grades 7-8 enrollments are projected to decrease by a total of -7 students, as student pass through the grades. We look forward to fully updating data in Fall, 2022.

Historical Enrollment

School District: Shrewsbury, MA - Second Semester Spring Update

3/30/2022

NOTE: Spring enrollment data provided by 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
2006	396	2011-12	243	341	429	457	464	516	485	476	462	443	414	414	413	390	0	5704	5947
2007	364	2012-13	262	364	416	447	474	458	524	465	474	466	408	421	417	412	1	5747	6009
2008	379	2013-14	250	392	399	450	452	480	462	518	490	471	420	406	419	401	1	5761	6011
2009	371	2014-15	234	346	430	430	462	467	487	469	529	478	432	423	409	419	1	5782	6016
2010	332	2015-16	239	355	425	446	439	474	472	500	480	547	413	441	411	403	0	5806	6045
2011	383	2016-17	232	388	418	459	460	462	487	490	511	492	513	428	441	410	0	5959	6191
2012	366	2017-18	237	355	424	437	476	482	464	502	493	516	451	513	429	439	0	5981	6218
2013	370	2018-19	243	351	424	447	454	494	490	468	511	495	460	447	501	428	1	5971	6214
2014	346	2019-20	220	363	426	439	469	455	493	502	478	514	470	469	452	501	0	6031	6251
2015	328	2020-21	110	287	407	434	430	484	473	491	502	483	459	480	470	464	0	5864	5974
2016	340	2021-22	164	343	339	417	429	427	484	469	481	498	459	450	464	461	0	5721	5885
Spring 2022 Data			206	363	350	428	440	440	494	472	480	499	462	453	462	459	0	5802	6008

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

Historical Enrollment in Grade Combinations									
Year	K-4	PK-4	K-5	PK-5	K-8	5-8	5-6	7-8	9-12
2011-12	2207	2450	2692	2935	4073	1866	961	905	1631
2012-13	2159	2421	2683	2945	4088	1929	989	940	1658
2013-14	2173	2423	2635	2885	4114	1941	980	961	1646
2014-15	2135	2369	2622	2856	4098	1963	956	1007	1683
2015-16	2139	2378	2611	2850	4138	1999	972	1027	1668
2016-17	2187	2419	2674	2906	4167	1980	977	1003	1792
2017-18	2174	2411	2638	2875	4149	1975	966	1009	1832
2018-19	2170	2413	2660	2903	4134	1964	958	1006	1836
2019-20	2152	2372	2645	2865	4139	1987	995	992	1892
2020-21	2042	2152	2515	2625	3991	1949	964	985	1873
Fall 2021	1955	2119	2439	2603	3887	1932	953	979	1834

Historical Percentage Changes			
Year	K-12	Diff.	%
2011-12	5704	0	0.0%
2012-13	5747	43	0.8%
2013-14	5761	14	0.2%
2014-15	5782	21	0.4%
2015-16	5806	24	0.4%
2016-17	5959	153	2.6%
2017-18	5981	22	0.4%
2018-19	5971	-10	-0.2%
2019-20	6031	60	1.0%
2020-21	5864	-167	-2.8%
2021-22	5721	-143	-2.4%
Change		17	0.3%

Second Semester Spring Update Projected Enrollment

School District: Shrewsbury, MA - Second Semester Spring Update

3/30/2022

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
2016	340		2021-22	206	363	350	428	440	440	494	472	480	499	462	453	462	459	0	5802	6008
2017	315		2022-23	220	313	430	364	443	446	449	503	477	482	466	464	448	462	0	5747	5967
2018	328	(prov.)	2023-24	222	326	371	448	377	449	455	457	508	479	450	468	459	448	0	5695	5917
2019	354	(prov.)	2024-25	224	352	386	386	464	382	458	463	462	510	447	452	463	459	0	5684	5908
2020	333	(est.)	2025-26	226	331	417	402	400	470	389	466	468	464	476	449	447	463	0	5642	5868
2021	334	(est.)	2026-27	228	332	392	434	416	405	479	396	471	470	433	478	445	447	0	5598	5826
2022	333	(est.)	2027-28	230	331	393	408	449	421	413	487	400	473	439	435	473	445	0	5567	5797
2023	336	(est.)	2028-29	232	335	392	409	422	455	429	420	492	401	441	441	431	473	0	5541	5773
2024	338	(est.)	2029-30	234	336	397	408	423	427	464	437	424	494	374	443	437	431	0	5495	5729
2025	335	(est.)	2030-31	236	333	398	413	422	428	435	472	441	425	461	376	439	437	0	5480	5716
2026	335	(est.)	2031-32	238	334	395	414	427	427	436	443	477	443	397	463	372	439	0	5467	5705

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

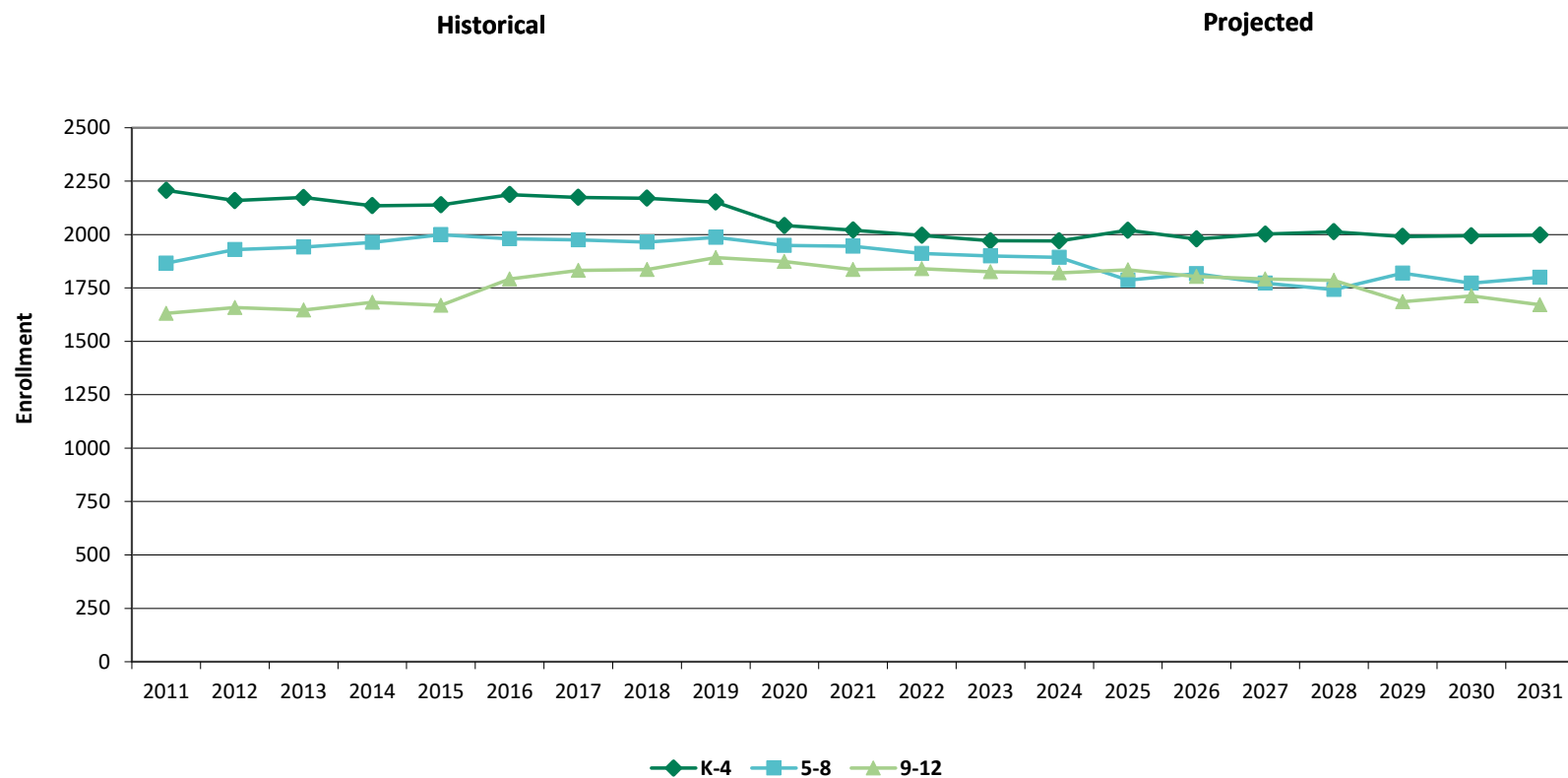
*Birth data provided by Public Health Vital Records Departments in each state.

Projected Enrollment in Grade Combinations*									
Year	K-4	PK-4	K-5	PK-5	K-8	5-8	5-6	7-8	9-12
2021-22	2021	2227	2515	2721	3966	1945	966	979	1836
2022-23	1996	2216	2445	2665	3907	1911	952	959	1840
2023-24	1971	2193	2426	2648	3870	1899	912	987	1825
2024-25	1970	2194	2428	2652	3863	1893	921	972	1821
2025-26	2020	2246	2409	2635	3807	1787	855	932	1835
2026-27	1979	2207	2458	2686	3795	1816	875	941	1803
2027-28	2002	2232	2415	2645	3775	1773	900	873	1792
2028-29	2013	2245	2442	2674	3755	1742	849	893	1786
2029-30	1991	2225	2455	2689	3810	1819	901	918	1685
2030-31	1994	2230	2429	2665	3767	1773	907	866	1713
2031-32	1997	2235	2433	2671	3796	1799	879	920	1671

Projected Percentage Changes			
Year	K-12	Diff.	%
2021-22	5802	0	0.0%
2022-23	5747	-55	-0.9%
2023-24	5695	-52	-0.9%
2024-25	5684	-11	-0.2%
2025-26	5642	-42	-0.7%
2026-27	5598	-44	-0.8%
2027-28	5567	-31	-0.6%
2028-29	5541	-26	-0.5%
2029-30	5495	-46	-0.8%
2030-31	5480	-15	-0.3%
2031-32	5467	-13	-0.2%
Change	-335		-5.8%

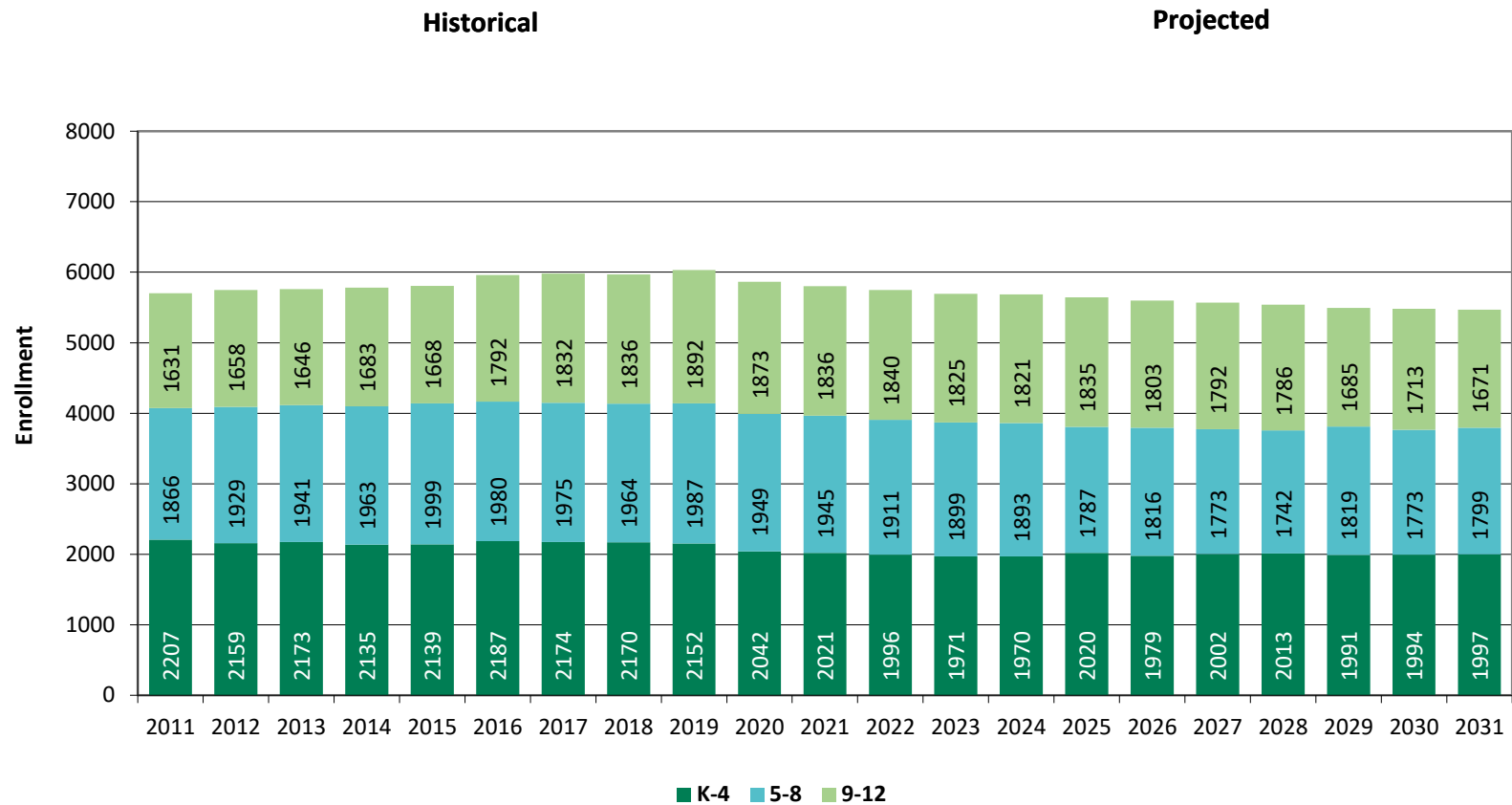
*Projections should be updated annually to reflect changes in in/out-migration of families, real estate sales, residential construction, births, and similar factors.

Historical & Projected Enrollments in Grade Combinations



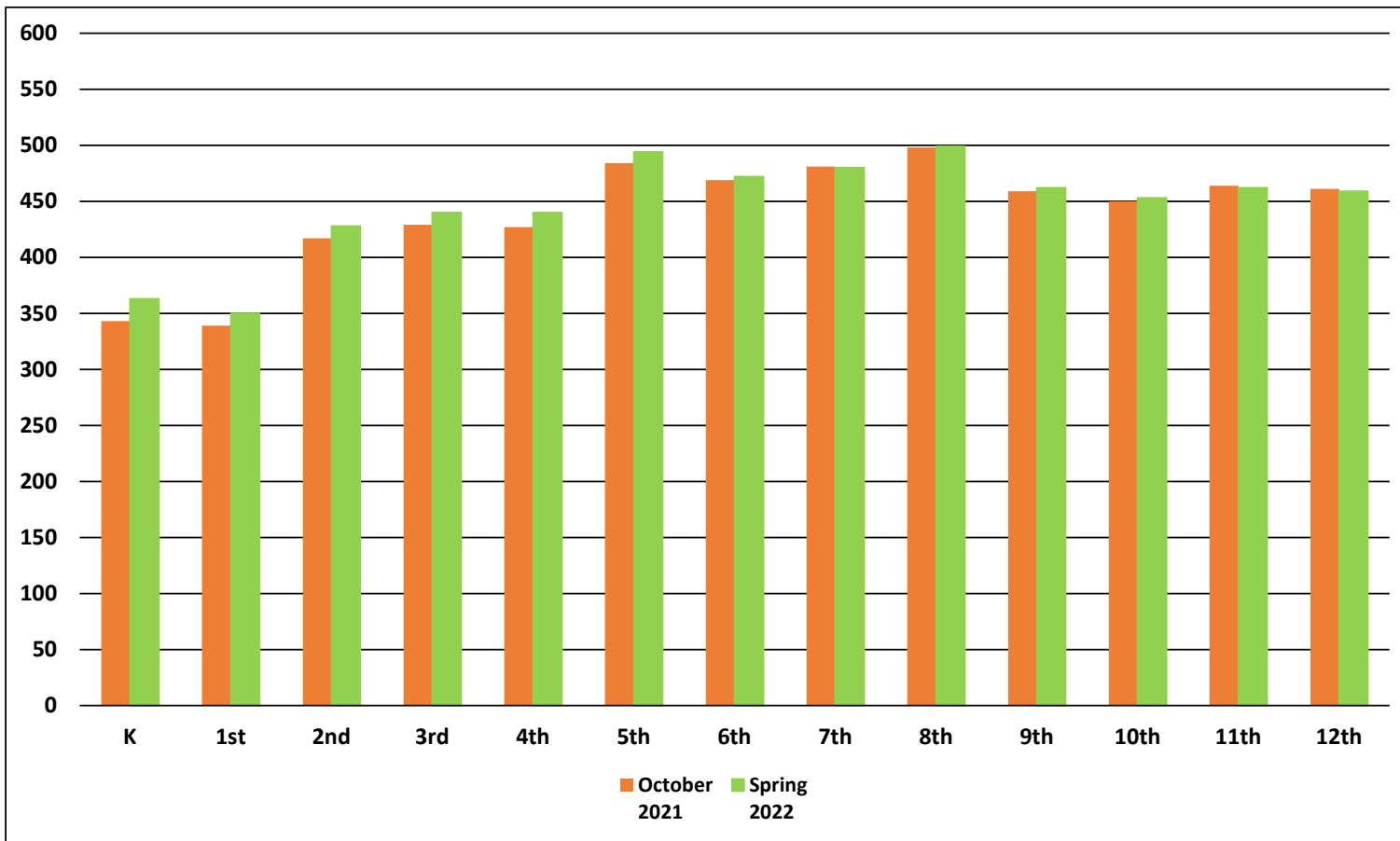
Note: Projections are based on Spring 2022 data.

Historical & Projected Enrollments in Grade Combinations

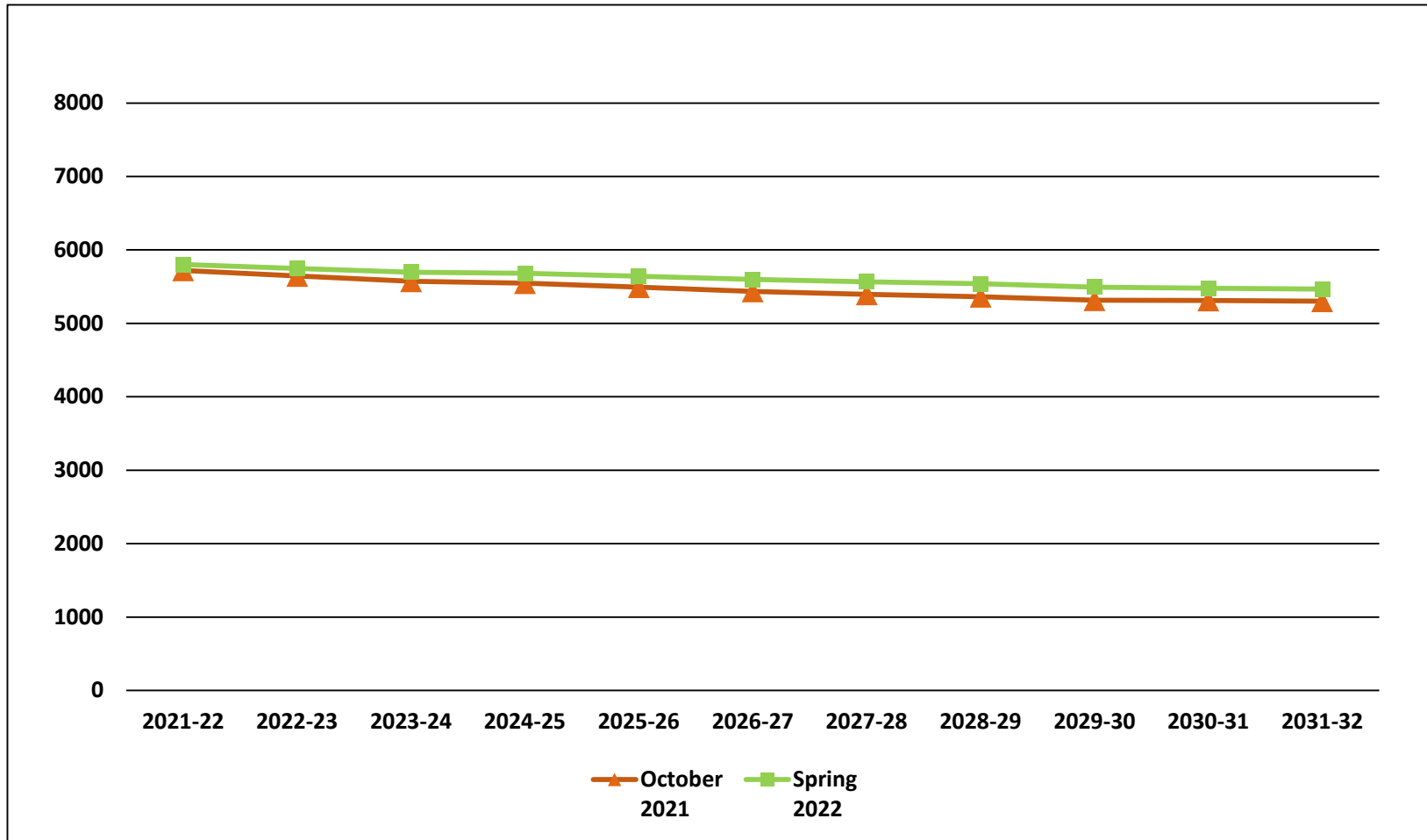


Note: Projections are based on Spring 2022 data.

October 2021 vs. Spring 2022 Enrollment by Grade



K-12 Projections to 2030 Based on October 2021 vs. Spring 2022 Data



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 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. Projections are generally most reliable when they are closest in time to the current year, and the more stable the variables noted above, the easier and more reliable the projections. Projections six to ten years out may serve as a guide to future enrollments and are useful for facility planning purposes, but they should be viewed as subject to change, given the likelihood of changes in the underlying assumptions/trends.

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).