

Enrollment Projections Report

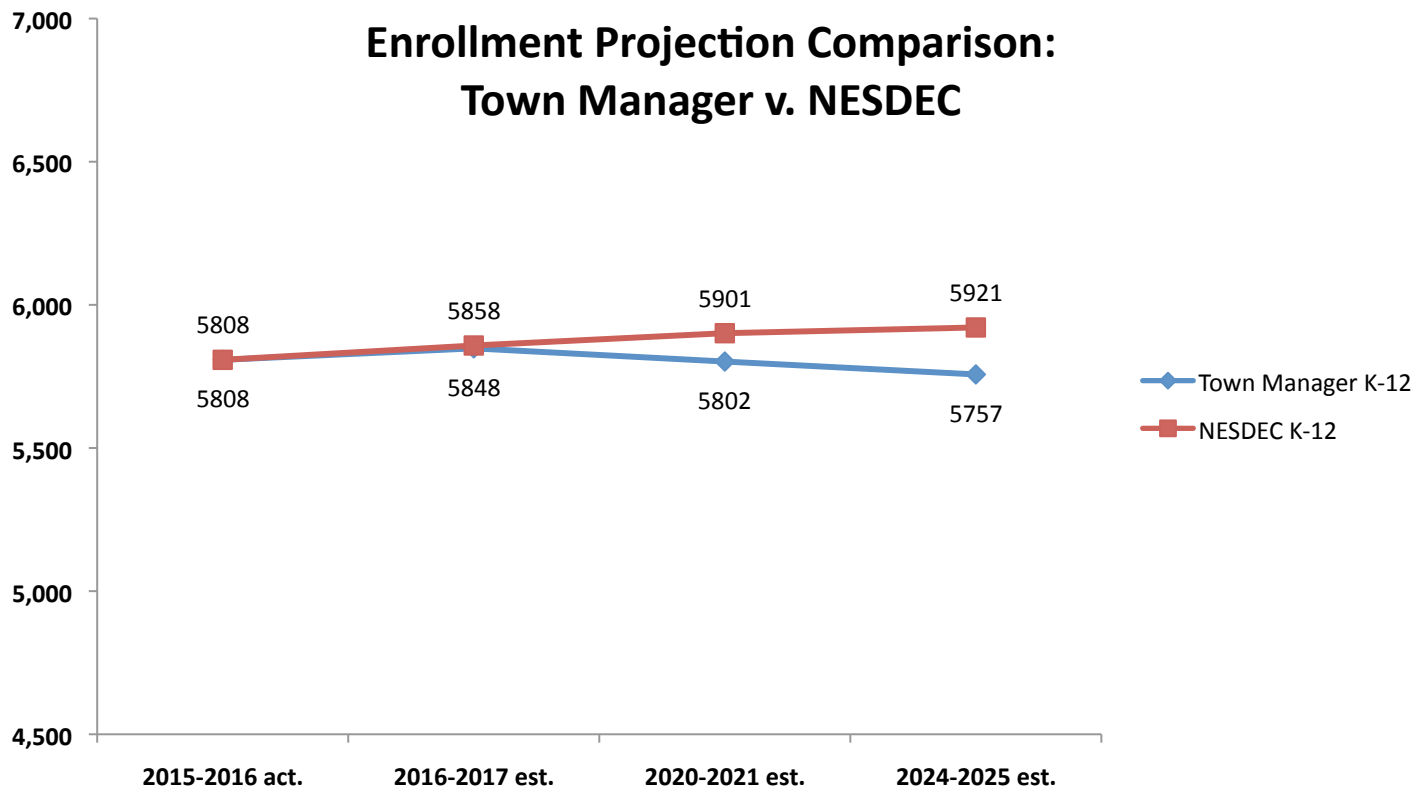
Patrick Collins

December 2015

Methods

- Town Manager Projection
 - *Traditional cohort survival method* with five-year survival ratios.
- New England School Development Council
 - *Modified cohort survival method* with three-year survival ratios for grades 1-12 and a birth to kindergarten ratio of 102%.
- Different methods lead to slightly different results over time.

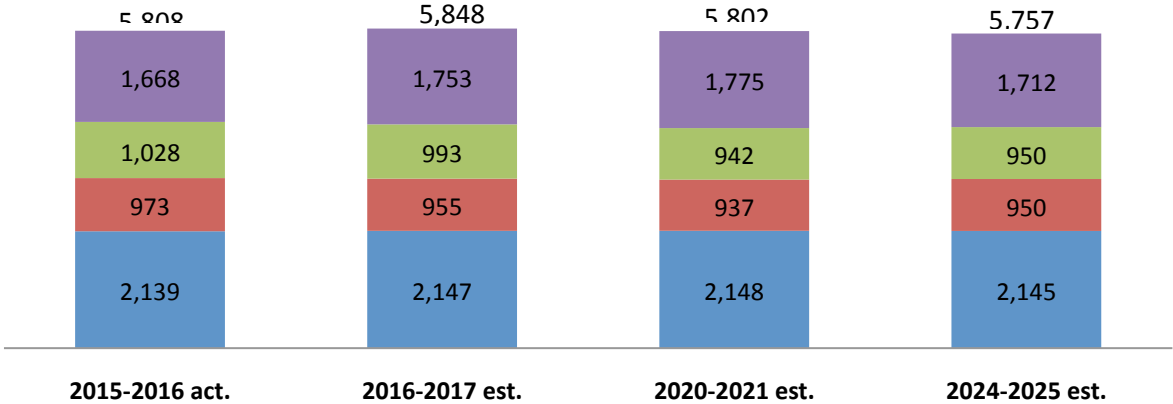
Projection Comparison: K-12



Town Mgr. by Grade Span

Shrewsbury Public Schools K-12 Enrollment Projection Town Manager - Fall 2015

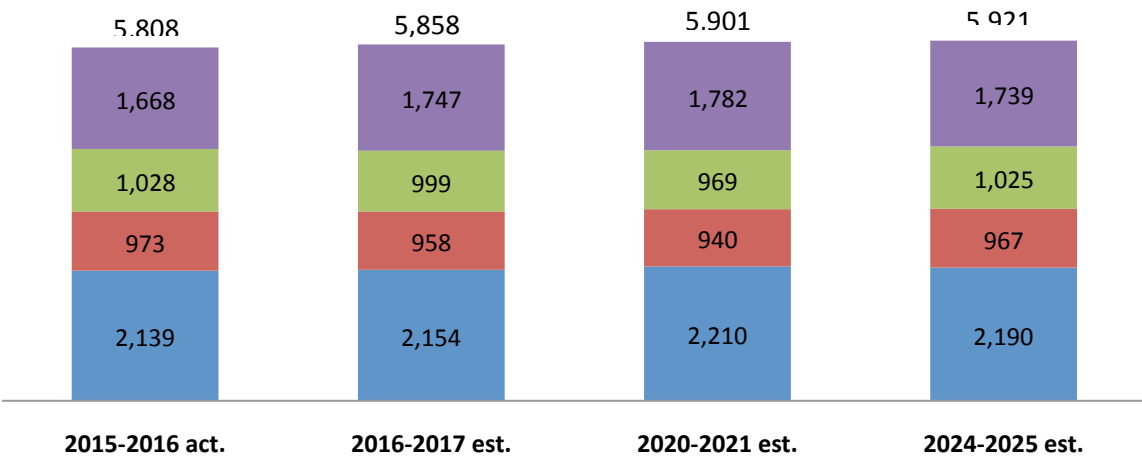
■ K-4 ■ 5-6 ■ 7-8 ■ 9-12



NESDEC by Grade Span

Shrewsbury Public Schools K-12 Enrollment Projection
NESDEC - Fall 2015

■ K-4 ■ 5-6 ■ 7-8 ■ 9-12



Town Manager Projection

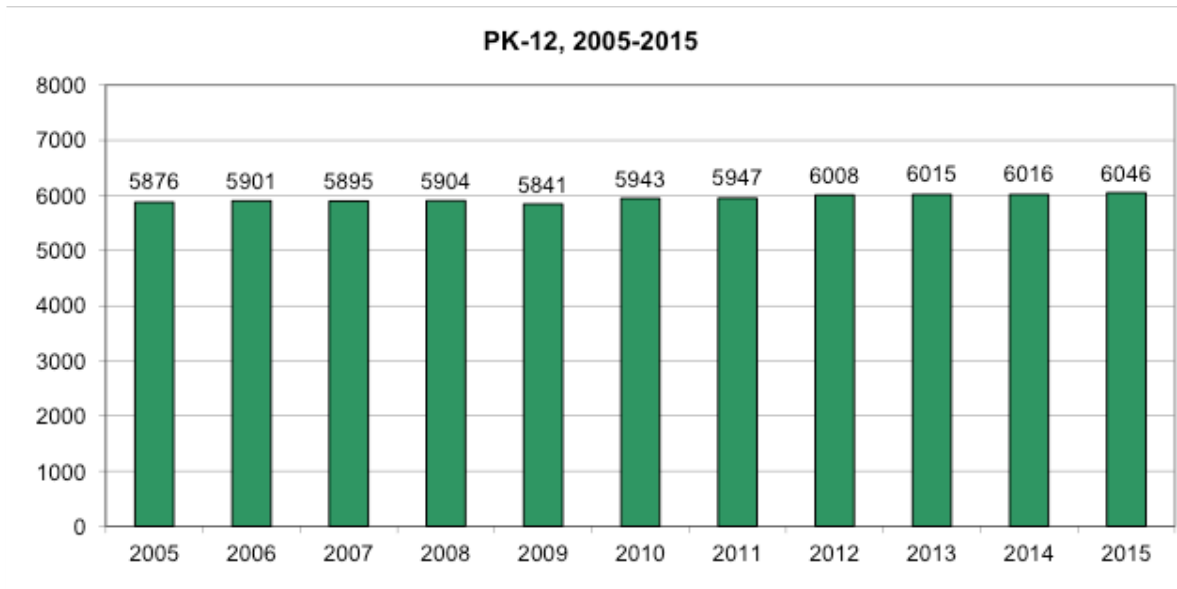
FY 2016 School Enrollment Projections

		1.158	1.061	1.026	1.012		1.016	1.001		1.018	1.006		0.894	1.014	0.996	0.989					
	k	1	2	3	4	k-4	5	6	5-6	7	8	7-8	9	10	11	12	9-12	TOTAL*	preschool		
1998	403	381	365	408	395	1952	354	356	710	328	338	666	241	198	226	254	919	4247	134	4381	
1999	359	466	395	391	424	2035	394	352	746	356	328	684	266	234	202	219	921	4386	126	4512	
2000	393	420	471	402	399	2085	433	389	822	361	367	728	290	280	245	213	1028	4663	135	4798	
2001	385	475	444	469	424	2197	419	427	846	400	364	764	324	296	283	236	1139	4946	131	5077	
2002	407	442	483	442	488	2262	428	423	851	426	395	821	343	330	287	274	1234	5168	150	5318	
2003	398	484	464	480	464	2290	494	436	930	438	437	875	356	343	324	289	1312	5407	157	5564	
2004	384	449	489	464	504	2290	463	492	955	444	441	885	413	360	334	320	1427	5557	174	5731	
2005	394	452	466	502	466	2280	502	461	963	486	443	929	425	402	345	344	1516	5688	188	5876	
2006	378	440	468	452	507	2245	462	488	950	449	501	950	408	436	388	351	1583	5728	173	5901	
2007	376	439	454	482	454	2205	496	450	946	485	449	934	419	404	423	383	1629	5714	181	5895	
2008	342	476	456	459	478	2211	456	461	917	453	489	942	393	429	390	427	1639	5709	196	5905	
2009	348	426	493	465	459	2191	473	436	909	466	439	905	421	398	415	391	1625	5630	211	5841	
2010	372	429	448	515	472	2236	469	465	934	435	479	914	401	417	390	410	1618	5702	241	5943	
2011	341	429	457	464	516	2207	485	476	961	462	443	905	414	414	413	390	1631	5704	243	5947	
2012	364	416	447	474	458	2159	524	465	989	473	466	939	408	421	417	412	1658	5745	262	6007	
2013	392	399	450	452	480	2173	462	518	980	490	471	961	420	406	421	403	1650	5764	250	6014	
2014	346	430	430	462	467	2135	487	469	956	529	478	1007	432	423	410	420	1685	5783	234	6017	
2015	356	424	446	439	474	2139	473	500	973	481	547	1028	413	440	412	403	1668	5808	238	6046	
													Indicates choice student(s)								
2016	383	412	450	458	444	2147	482	473	955	509	484	993	489	419	438	407	1753	5848			
2017	334	443	437	462	463	2140	451	482	933	482	512	994	433	496	417	434	1779	5846			
2018	383	387	470	449	467	2156	471	452	922	490	485	975	458	439	494	413	1803	5857			
2019	350	443	411	483	454	2141	475	471	946	460	494	953	433	464	437	488	1823	5862			
2020	362	405	470	422	488	2148	462	475	937	479	463	942	441	439	462	432	1775	5801			
2021	362	419	430	483	427	2121	496	462	958	483	482	966	413	447	438	457	1755	5800			
2022	362	419	445	441	488	2156	434	497	930	470	486	957	431	419	446	433	1729	5771			
2023	362	419	445	457	447	2129	496	434	930	505	473	978	435	437	418	441	1730	5768			
2024	362	419	445	457	462	2145	454	497	950	442	509	950	423	441	435	413	1712	5757			

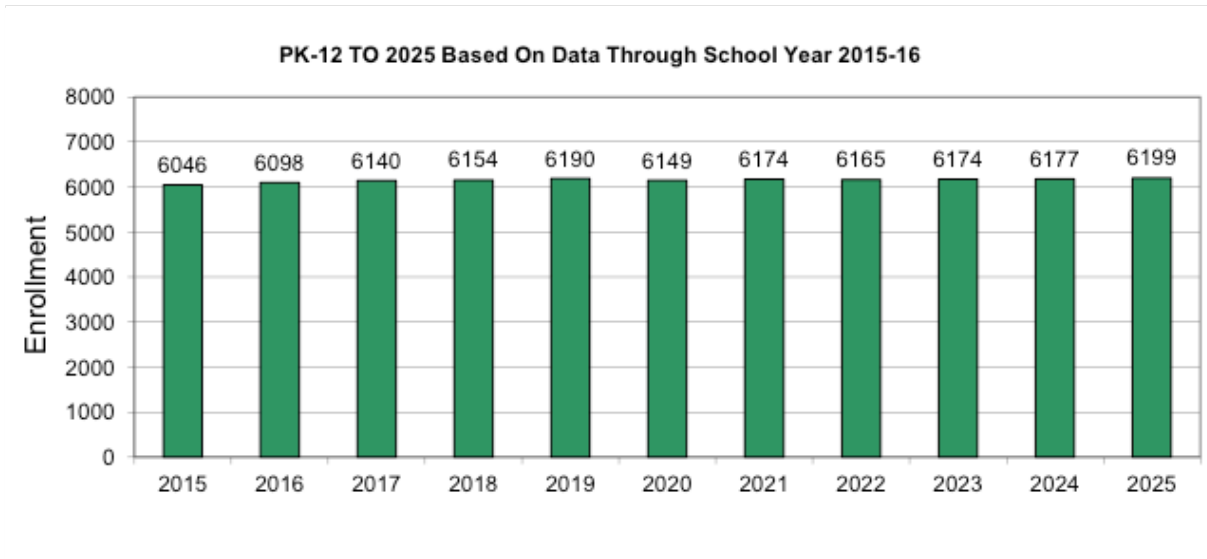
Notes:

- 1998-2015 are actual enrollments
- Assumed births for 2015-19 were calculated taking the average of the previous four years of recorded births.

NESDEC Projection



NESDEC Projection



NESDEC Projection



School District: Shrewsbury, MA

11/19/2015

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
2000	462	2005-06	188	394	452	466	502	466	502	461	486	443	425	402	345	344	0	5688	5876
2001	470	2006-07	173	378	440	468	452	507	462	488	449	501	408	436	388	351	0	5728	5901
2002	485	2007-08	181	376	439	454	482	454	496	450	485	449	419	404	423	383	0	5714	5895
2003	439	2008-09	195	342	476	456	459	478	456	461	453	489	393	429	390	426	0	5708	5904
2004	469	2009-10	211	348	426	493	465	469	473	436	466	439	421	398	415	390	1	5630	5841
2005	429	2010-11	241	372	429	448	515	472	469	465	435	479	401	417	390	410	0	5702	5943
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	473	466	408	421	417	412	1	5746	6008
2008	379	2013-14	250	392	399	450	452	480	462	518	490	471	420	406	421	403	1	5765	6015
2009	371	2014-15	234	346	430	430	462	467	487	469	529	478	432	423	410	419	0	5782	6016
2010	332	2015-16	238	356	424	446	439	474	473	500	481	547	413	440	412	403	0	5808	6046

Historical Enrollment in Grade Combinations									
Year	K-4	1-4	PK-4	K-8	5-6	6-8	7-8	7-12	9-12
2005-06	2280	1886	2458	4172	963	1390	929	2445	1516
2006-07	2245	1867	2418	4145	950	1438	950	2533	1583
2007-08	2205	1829	2386	4085	946	1384	934	2563	1629
2008-09	2211	1869	2407	4070	917	1403	942	2580	1638
2009-10	2191	1843	2402	4005	909	1341	905	2529	1624
2010-11	2236	1864	2477	4084	934	1379	914	2532	1618
2011-12	2207	1866	2450	4073	961	1381	905	2536	1631
2012-13	2159	1795	2421	4087	989	1404	939	2597	1658
2013-14	2173	1781	2423	4114	980	1479	961	2611	1650
2014-15	2135	1789	2369	4098	956	1476	1007	2691	1684
2015-16	2139	1783	2377	4140	973	1528	1028	2696	1668

Historical Percentage Changes			
Year	K-12	Diff.	%
2005-06	5688	0	0.0%
2006-07	5728	40	0.7%
2007-08	5714	-14	-0.2%
2008-09	5708	-6	-0.1%
2009-10	5630	-78	-1.4%
2010-11	5702	72	1.3%
2011-12	5704	2	0.0%
2012-13	5746	42	0.7%
2013-14	5765	19	0.3%
2014-15	5782	17	0.3%
2015-16	5808	26	0.4%
Change	120	2.1%	

NESDEC Projection



School District: **Shrewsbury, MA** 11/19/2015

Projection assumes that new families will continue moving into Kindergarten and the elementary grades; also assumes that about 90% of Grade 8 will move to Grade 9 in SHS.

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
2010	332	2015-16	238	356	424	446	439	474	473	500	481	547	413	440	412	403	0	5808	6046
2011	383	2016-17	240	391	406	452	455	450	480	478	517	482	489	416	438	404	0	5858	6098
2012	366	2017-18	242	373	446	433	461	466	455	485	494	518	431	492	414	430	0	5898	6140
2013	370	2018-19	244	377	425	475	441	472	472	460	501	495	463	434	489	406	0	5910	6154
2014	364	(est.) 2019-20	246	372	430	453	484	452	478	477	475	502	443	466	432	480	0	5944	6190
2015	363	(est.) 2020-21	248	370	424	458	462	496	457	483	493	476	449	446	463	424	0	5901	6149
2016	369	(est.) 2021-22	250	377	422	452	467	473	502	462	499	494	425	452	444	454	0	5924	6174
2017	367	(est.) 2022-23	252	374	430	450	461	478	479	507	477	500	442	429	450	436	0	5913	6165
2018	367	(est.) 2023-24	254	374	426	458	459	472	484	484	524	478	447	445	427	442	0	5920	6174
2019	366	(est.) 2024-25	256	373	426	454	467	470	478	489	500	525	427	450	443	419	0	5921	6177
2020	366	(est.) 2025-26	258	374	425	454	463	478	476	483	505	501	469	430	448	435	0	5941	6199

*Projections should be updated on an annual basis.

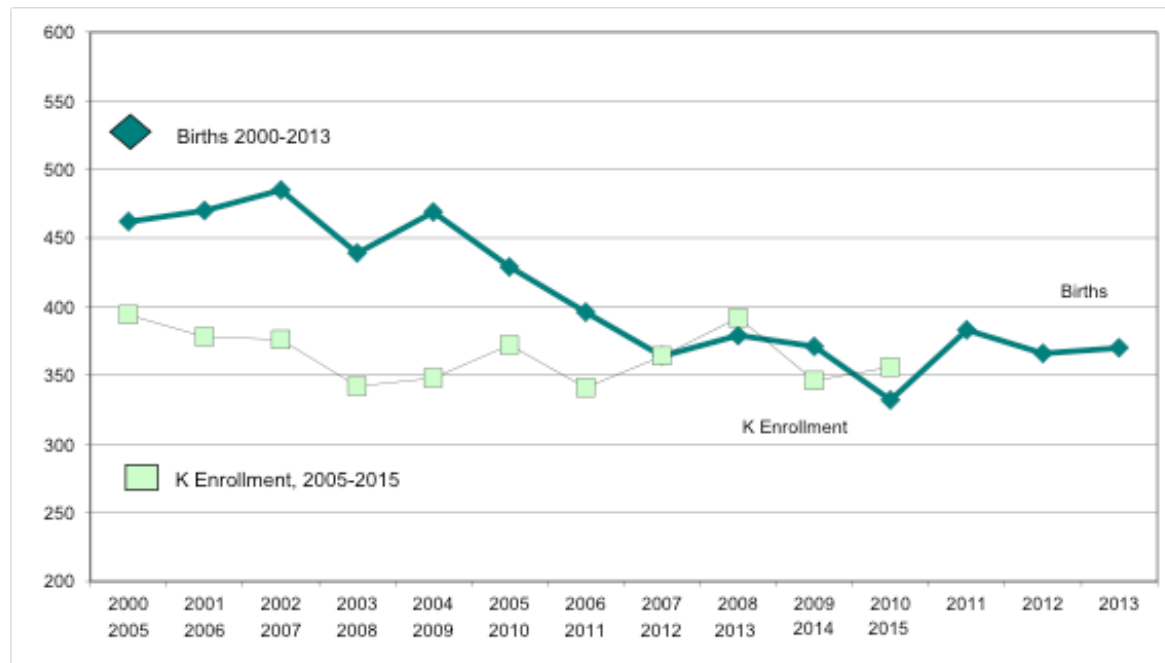
 Based on an estimate of births
 Based on children already born
 Based on students already enrolled

Projected Enrollment in Grade Combinations*									
Year	K-4	1-4	PK-4	K-8	5-8	6-8	7-8	7-12	9-12
2015-16	2139	1783	2377	4140	973	1528	1028	2696	1668
2016-17	2154	1763	2394	4111	958	1477	999	2746	1747
2017-18	2179	1806	2421	4131	940	1497	1012	2779	1767
2018-19	2190	1813	2434	4118	932	1456	996	2788	1792
2019-20	2191	1819	2437	4123	955	1454	977	2798	1821
2020-21	2210	1840	2458	4119	940	1452	969	2751	1782
2021-22	2191	1814	2441	4148	964	1455	993	2769	1776
2022-23	2193	1819	2445	4156	986	1484	977	2734	1757
2023-24	2189	1815	2443	4159	988	1486	1002	2763	1761
2024-25	2190	1817	2446	4182	967	1514	1025	2764	1739
2025-26	2194	1820	2452	4159	959	1489	1006	2788	1782

See "Reliability of Enrollment Projections" section of accompanying letter.
 Projections are more reliable for Years #1-5 in the future than for Years #6 and beyond.

Projected Percentage Changes			
Year	K-12	Diff.	%
2015-16	5808	0	0.0%
2016-17	5858	50	0.9%
2017-18	5898	40	0.7%
2018-19	5910	12	0.2%
2019-20	5944	34	0.6%
2020-21	5901	-43	-0.7%
2021-22	5924	23	0.4%
2022-23	5913	-11	-0.2%
2023-24	5920	7	0.1%
2024-25	5921	1	0.0%
2025-26	5941	20	0.3%
Change	133	2.3%	

NESDEC Projection



NESDEC Projection



Building Permits Issued		
Year	Single-Family	Multi-Units
2005	59	94
2011	51	0
2012	66	4
2013	93	4
2014	57	0
2015	n/a	n/a

Source: HUD and Building Department

Enrollment History		
Year	Voc-Tech 9-12 Total	Non-Public K-12 Total
2005-06	83	893
2011-12	133	n/a
2012-13	127	865
2013-14	131	n/a
2014-15	131	768
2015-16	120	n/a

Residents in Non-Public Independent and Parochial Schools (General Education)														
Enrollments as of 10/1/14	K	1	2	3	4	5	6	7	8	9	10	11	12	K-12 TOTAL
	93	44	34	42	48	48	53	45	40	74	79	70	98	768

K-12 Home-Schooled Students	
2015	27

K-12 Residents "Choiced-out" or in Charter or Magnet Schools	
2015	109

K-12 Special Education Outplaced Students	
2015	72

K-12 Choiced-In, Tuitioned-In, & Other Non-Residents	
2015	1

The above data were used to assist in the preparation of the enrollment projections. If additional demographic work is needed, please contact our office.

Elementary Schools

2016-2017est.

		Beal			Coolidge			Floral Street			Paton			Spring Street		
<i>Grade</i>	<i>Projected</i>															
<i>Level</i>	<i>2016-17</i>	Students	Clrms/Sect.	Avg.	Students	Sections	Avg.	Students	Sections	Avg.	Students	Sections	Avg.	Students	Sections	Avg.
<i>HDK*</i>	157	157	4/8	20												
<i>FDK*</i>	226	100	5	20	63	3	21				21	1	21	42	2	21
<i>Grade 1</i>	412	68	4	17	91	4	23	103	5	21	76	4	19	74	4	19
<i>Grade 2</i>	450				94	4	24	200	9	22	79	4	20	77	4	19
<i>Grade 3</i>	458				90	4	23	208	9	23	92	4	23	68	3	23
<i>Grade 4</i>	444				89	4	22	189	9	21	82	4	21	84	4	21
<i>Total K</i>	383															
<i>Total 1-4</i>	1764	<i>School Avg./class</i>			<i>School Avg./class</i>			<i>School Avg./class</i>			<i>School Avg./class</i>			<i>School Avg./class</i>		
				19			22			22			21			20
<i>Totals</i>	2147	325	17		427	19		700	32		350	17		345	17	

Summary Highlights

- Both projections indicate an enrollment increase, K-12, next year in the range of 40-50 students.
- The five-year outlook has enrollment growth in the range of 0-100 students, depending on the projection.
- Both projections indicate that our K-4 population will remain steady with small growth estimated at the five and nine-year intervals under our current structure of not having universal full-day kindergarten.
- We will supply these projections to MSBA along with our educational program plans if we are invited into the Eligibility Phase for a replacement Beal School.