

King Philip Regional School District

Updated 10 - Year Student Enrollment Projections **(Including the Norfolk, Plainville and Wrentham School Districts)**

Prepared by:
Financial Advisory Associates, Inc.
258 Main Street, Suite A-2
Buzzards Bay, Massachusetts 02532
January 10, 2002

FAA
FINANCIAL ADVISORY ASSOCIATES, INC.

January 10, 2002

William McAlduff, Superintendent
King Philip Regional School District
201 Franklin Street
Wrentham, MA 02093

Dear Mr. McAlduff:

FAA is pleased to provide you with the enclosed King Philip Regional School District (KPRSD) updated enrollment analysis. As you recall, our December 2001 contract called for a scope of service wherein we were to prepare an update of our September 1999 estimate based upon all of the new public data available as of December 1, 2001. Given the constraints of time and funding, we did not contract to make any effort to review any new information available from the various town planning departments or any other regional planning agencies. We are also very appreciative of the quality and quantity of effort made by you and your Business Manager. The contributions made by your organization in the area of data collection and transmission was exemplary.

Enclosed you will find updated historical data, new 3, 6, 7 and 10-year survival ratios for all four districts and three sets of revised enrollment estimates for all three of the member towns and the KPRSD. We have compared the new findings to those contained within our prior report. We also have provided you with a narrative analysis of our findings.

Please feel free to contact me should you have any questions or concerns relating to this report. Thank you for this opportunity to serve the KPRSD again. We look forward to working with you in the future.

Sincerely,

FINANCIAL ADVISORY ASSOCIATES, INC.

Michael Daley
President

258 MAIN STREET, SUITE A2 • BUZZARDS BAY, MA • 02532
PHONE: (508) 759-0700 • FAX: (508) 759-6418 E-MAIL: INFO@FAA-INC.CO

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Introduction

There are two sources of live birth data available for the purpose of preparing Massachusetts student enrollment projections. Live birth information is gathered and maintained within the office of each local town clerk. This data generally tends to be to the low side. Usually it does not include births occurring outside of the general area nor does it include illegitimate births. The Commonwealth of Massachusetts also tracks live birth information. This data generally shows a higher level of births than the town clerks' records since the state gathers information from a broader set of resources.

FAA prepared enrollment estimates for each of the three member communities and the King Philip Regional School District (KPRSD) using both sets of birth data. The resulting estimates are varied for each of the four school systems.

Since this review and analysis is primarily for the KPRSD, we have focused our efforts towards their data. However, given that the effects of all enrollment activity within three varied local systems influences the KPRSD's enrollments, we have also reviewed the local school systems' estimates for any indicators or anomalies that we feel should be considered for their impact within the client school district's domain.

Total Enrollment Analysis: Using all of our models, we have determined that the district has trended in a consistent manner. Most trending has been slightly below our prior estimates. The downward trend has been very tight. Our models are indicating lower 3-year average birth rates. State rates (not inclusive of 2000) are down by 3.4 percent and local rates are down by 1.2 percent. This will result in lower total enrollment forecasts.

Our models now indicate a less aggressive growth rate over the 10-year forecast period. The total enrollment forecast using local data during 1999 indicated a ten-year growth rate of 31.2 percent within KPRSD. The local data model now indicates a 10-year growth rate of 17.6 percent. The district's growth timeline is also extended by three years. We are now looking at estimates of enrollments through FY 2012.

The particular results of the two 2011/2012 school year student enrollment estimates we prepared are presented in the following table. For the purpose of calculating the region's enrollments we actually processed collective data for the three towns through the forecast calculation software in lieu of adding the three towns' results. Thus, minor variances may occur due to rounding.

This table represents the estimates at the end of the forecast period. Facility planning must take into consideration the peak year enrollment numbers. These peak year estimates are found within the individual detailed annual enrollment forecast presentations.

FY 2012	KPRSD LOCAL	KPRSD STATE	NORFOLK LOCAL	NORFOLK STATE	PLAINVILLE LOCAL	PLAINVILLE STATE	WRENTHAM LOCAL	WRENTHAM STATE
K – 6	3,280	2,904	1,134	1,106	879	640	1,358	1,184
JHS	902	767	286	267	245	169	394	333
SHS	1,252	1,189	378	370	342	309	551	519
KPRSD	2,154	1,957	664	637	587	478	945	853
Total	5,434	4,861	1,799	1,744	1,467	1,118	2,303	2,037

Our linear analysis using dwelling units will always indicate increases in enrollments. This is because of the linear nature of the approach. This method is used only to compare and reconcile the results of our statistical models. Of note is our reduced estimate of dwelling units across the district. We formerly estimated 9,214 housing units would exist within the KPRSD during FY 2009. We now estimate only 9,046 housing units will exist in that same year. Our model has forecasted a total of 9,430 housing units will exist across the KPRSD in FY 2012.

Of further note is the increased student per unit factor. Formerly we used a factor of .57 students per unit. We are now using a factor of .60 students per unit. This indicates a trend towards larger families.

KPRSD Junior High School Analysis: Since KPRSD includes grade seven through grade twelve, the forecasts for these grades involve less unknowns. Since we are working with actual live birth data, estimates for these grades are generally more accurate. Our models have given similar results in both cases.

In 1999, using local data we forecasted a peak enrollment in the Junior High School (JHS) would occur in 2008. That enrollment estimate was 932. Our model currently forecasts the peak year to be 2010. The new enrollment estimate is 909.

Using the state's data we find the former modeling estimated a peak enrollment in 2006. The estimate was 885 students. Our current estimate is still indicating a peak enrollment in 2006. The current estimate is 862 students. This is due to a 10-year trend of losing students at both grade levels. We use the 10-year survival ratios to prepare our forecasts.

However, a review of the 3-year survival ratios indicates that a new trend of retaining more students between grade 7 and grade 8 is now in play. This trend can be expected to continue and will likely expand if a new facility is brought on line. It will likely also improve given the current economic recession.

KPRSD High School Analysis: The results are remarkably similar to those above. Again, they forecast very similar enrollments for grades nine through twelve.

In particular, using the state's data, both the 1999 and 2002 forecasts identify 2008 as the peak enrollment year for the high school. The 1999 estimate was for 1,228 students and the 2002 model is forecasting an enrollment in 2008 of 1,229 children. Using the local data in 1999, we developed an estimate of 1,214 as the peak high school enrollment. That was expected to occur in 2008. When using the local data, we are now forecasting in 2002 a peak enrollment will occur at the high school during 2011. That enrollment is expected to be 1,252 students according to this model.

We have seen a survival trend over the last three years that we feel should be noted. The former 3-year survival ratio for the migration of children from grade 8 to grade 9 was 74 percent. At the time of our last study the 10-year average was 77.2 percent. The new study indicates that the district has had a grade 8 to grade 9 student survival ratio of 79.4 percent for the past three years. The 10-year average is now 80.8 percent. The district has also retained more children between grades 9 and 10. This 3-year average has increased from 95.5 percent to 96.2 percent. This trend of student retention in the lower grades at the high school can be expected to continue and will likely expand if a new facility is brought on line. It will likely also improve further given the current economic recession.

FAA has previously reviewed and taken into consideration several demographic factors and population changes, including women of childbearing age and resident births per 1,000 women.

FAA has also collected historical dwelling unit information for the purpose of determining the ratio of students per dwelling unit within each town. We have also collected historical building permit data for the purpose of verifying each communities' annual new dwelling units count. Finally, we have previously discussed future growth potential with planning department representatives from each member community.

The use of the historical dwelling unit and building permit data enables us to better guide our clients in the enrollment estimating process. Given the varied results obtained when using local and state birth information, we use the students per dwelling unit analysis to reconcile the estimates. While this ratio approach of forecasting is not accepted by the Massachusetts Department of Education, it allows us to guide our clients with a degree of confidence as we finalize the enrollment estimates.

The King Philip Regional School District currently educates the seventh through twelfth grade students from the towns of Norfolk, Plainville and Wrentham. As we look at the future enrollment information we have developed for this school district we offer the following observation. We found in our prior report that historically 20 to 25 percent of Grade 8 students have chosen not to attend the King Philip High School. This trend seems to have reversed itself in the shorter term. In addition, there is a trend towards less migration out of the high school at the end of the freshman and sophomore years.

Given our review of the various demographic data available to us, our dwelling unit analysis, and the two cohort survival enrollment forecasts we prepared, we recommend continued use of the enrollment estimates utilizing the Commonwealth's live birth data for future facility planning.

We are prepared to review and discuss the enclosed information with the appropriate local parties at your convenience.

Updated 10 - Year Student Enrollment Projections

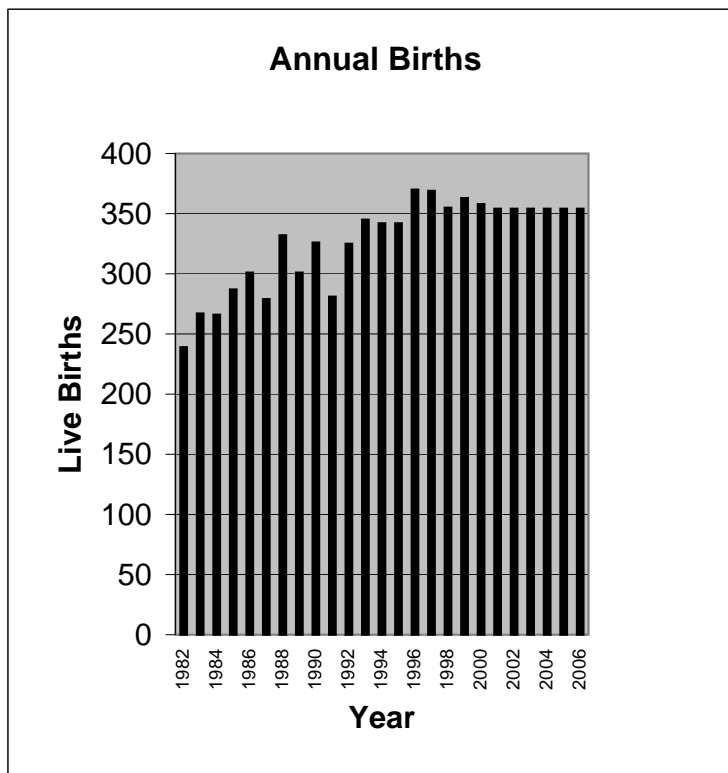
King Philip Regional School District

King Philip Regional School District

History of Live Births With Weighted Estimates

Source: Member Towns

Year	Births	Comments
1982	239	
1983	267	
1984	266	3 Yr Ave: 359
1985	287	
1986	301	
1987	279	
1988	332	7 Yr Ave: 357
1989	301	
1990	326	
1991	281	
1992	325	10 Yr Ave: 345
1993	345	
1994	342	
1995	342	
1996	370	17 Yr Ave: 318
1997	369	
1998	355	
1999	363	
2000	358	
2001	354	Estimated
2002	354	Estimated
2003	354	Estimated
2004	354	Estimated
2005	354	Estimated
2006	354	Estimated



The projected births for 2001 through 2006 are estimated using a weighted average.

The weighting is as follows:

$$\begin{array}{r}
 50\% \text{ of the 03 year ave} = 179.33 \\
 30\% \text{ of the 07 year ave} = 107.10 \\
 15\% \text{ of the 10 year ave} = 51.75 \\
 05\% \text{ of the 19 year ave} = \underline{15.92} \\
 \hline
 354.10
 \end{array}$$

Combined King Philip Regional School District Member Towns Survival Ratios

Live Birth Data Source: Member Towns

Survival Rates:

Year	Pre-K	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1992	0.0	131.9	108.5	96.2	96.6	100.0	97.9	99.7	102.3	98.2	77.8	96.1	94.7	107.2
1993	0.0	119.6	103.5	100.3	98.9	101.1	97.0	99.6	94.4	99.4	76.1	92.1	98.0	104.0
1994	0.0	127.2	108.3	104.7	100.8	105.7	97.1	83.9	113.1	68.2	82.5	76.5	95.9	95.8
1995	0.0	131.6	114.6	99.1	98.7	101.3	100.5	101.4	116.9	91.9	111.1	76.9	128.6	103.7
1996	0.0	145.6	104.9	96.1	100.5	102.0	100.0	98.4	92.7	98.0	72.8	93.4	90.8	99.2
1997	0.0	123.4	106.8	99.8	100.2	98.4	98.0	103.0	98.4	100.3	70.2	93.5	96.0	103.9
1998	0.0	118.3	108.0	96.8	101.1	98.1	99.3	97.2	91.8	94.1	79.1	99.6	95.5	100.0
1999	0.0	126.9	110.8	100.9	100.5	98.7	101.7	98.6	94.0	100.3	73.9	94.9	98.3	98.4
2000	0.0	116.7	106.7	97.8	101.6	99.5	99.6	96.2	93.0	98.1	79.9	97.2	97.3	96.1
2001	0.0	109.7	105.3	100.4	102.3	98.2	100.5	99.8	93.8	101.6	84.4	96.4	95.0	94.4

Survival Rate Averages:

3 Years	117.8	107.6	99.7	101.4	98.8	100.6	98.2	93.6	100.0	79.4	96.2	96.9	96.3
6 Years	123.4	107.1	98.6	101.0	99.2	99.8	98.8	93.9	98.7	76.7	95.8	95.5	98.7
7 Years	124.6	108.2	98.7	100.7	99.5	99.9	99.2	97.2	97.7	81.6	93.1	100.2	99.4
10 Years	125.1	107.7	99.2	100.1	100.3	99.2	97.8	99.0	95.0	80.8	91.6	99.0	100.3

**Combined King Philip Regional School District Member Towns
Public School Student Enrollment Report**

2002 - 2011 Projections Based Upon 10 Year Survival Rate Using Weighted Average Member Towns' Birth Estimates

Year	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	K-6	Jr HS	Sr HS	KPSD	Total
Actual:																		
1989	370	380	281	332	303	326	269	264	292	178	176	153	151	2,261	556	658	1,214	3,475
1990	341	393	363	293	332	304	324	264	292	178	176	153	151	2,350	556	658	1,214	3,564
1991	365	366	385	364	290	338	304	336	275	204	187	209	203	2,412	611	803	1,414	3,826
1992	368	396	352	372	364	284	337	311	330	214	196	177	224	2,473	641	811	1,452	3,925
1993	397	381	397	348	376	353	283	318	309	251	197	192	184	2,535	627	824	1,451	3,986
1994	383	430	399	400	368	365	296	320	217	255	192	189	184	2,641	537	820	1,357	3,998
1995	429	439	426	394	405	370	370	346	294	241	196	247	196	2,833	640	880	1,520	4,353
1996	409	450	422	428	402	405	364	343	339	214	225	178	245	2,880	682	862	1,544	4,424
1997	401	437	449	423	421	394	417	358	344	238	200	216	185	2,942	702	839	1,541	4,483
1998	408	433	423	454	415	418	383	383	337	272	237	191	216	2,934	720	916	1,636	4,570
1999	434	452	437	425	448	422	412	360	384	249	258	233	188	3,030	744	928	1,672	4,702
2000	399	463	442	444	423	446	406	383	353	307	242	251	224	3,023	736	1,024	1,760	4,783
2001	406	420	465	452	436	425	445	381	389	298	296	230	237	3,049	770	1,061	1,831	4,880
Estimated:																		
2002	462	437	417	466	453	432	416	441	362	314	273	293	231	3,082	803	1,111	1,914	4,996
2003	444	497	434	417	467	450	423	411	419	292	288	270	294	3,132	830	1,145	1,975	5,106
2004	454	478	493	434	418	463	439	419	391	338	268	285	271	3,181	809	1,162	1,972	5,153
2005	448	489	475	494	436	415	453	435	398	316	310	265	286	3,209	833	1,177	2,010	5,218
2006	443	482	485	475	495	432	406	448	413	321	289	307	266	3,219	862	1,183	2,045	5,264
2007	443	477	479	486	477	491	422	402	426	334	294	287	308	3,275	827	1,223	2,050	5,325
2008	443	477	473	479	487	473	480	418	382	344	306	291	287	3,313	800	1,229	2,029	5,341
2009	443	477	473	474	481	483	462	476	397	308	315	303	292	3,293	873	1,219	2,092	5,385
2010	443	477	473	474	475	477	472	458	452	321	282	312	304	3,292	909	1,219	2,129	5,421
2011	443	477	473	474	475	471	466	468	435	365	294	280	313	3,280	902	1,252	2,154	5,434

Observations:

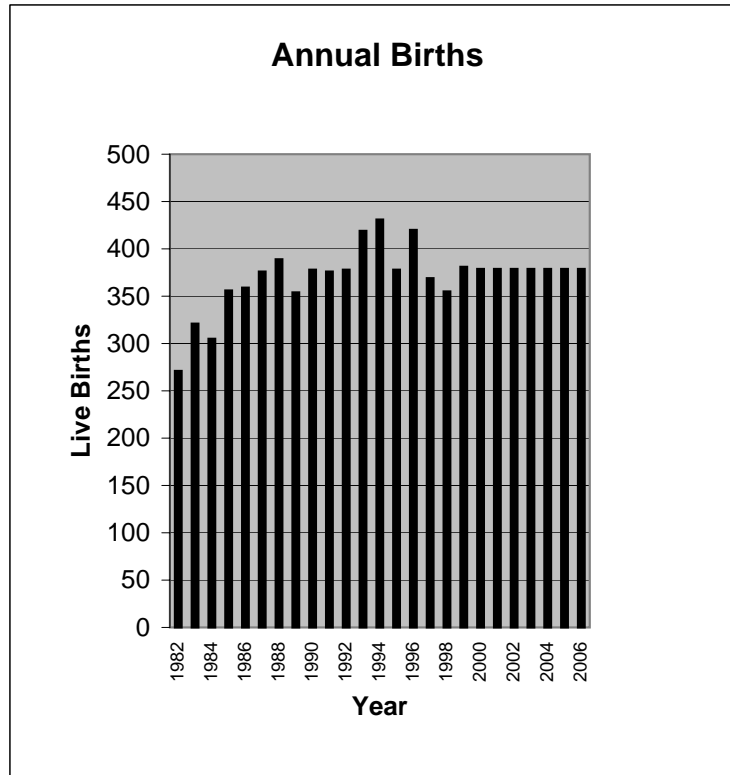
- 1 **KPRSD Highest Student Population:** 2,154 During 2011
- 2 **Percentage +/- from 2001 at 2011:** 17.65%
- 3 **Current % of District:** N/A
- 4 **Estimated % of District at 2011:** N/A
- 5 **10 Year Relative District Membership + / -** N/A

King Philip Regional School District

History of Live Births With Weighted Estimates

Source: Commonwealth of Massachusetts

Year	Births	Comments
1982	271	
1983	321	
1984	305	3 Yr Ave: 368
1985	356	
1986	359	
1987	376	
1988	389	7 Yr Ave: 393
1989	354	
1990	378	
1991	376	
1992	378	10 Yr Ave: 389
1993	419	
1994	431	
1995	378	
1996	420	18 Yr Ave: 368
1997	369	
1998	355	
1999	381	
2000	379	Estimated
2001	379	Estimated
2002	379	Estimated
2003	379	Estimated
2004	379	Estimated
2005	379	Estimated
2006	379	Estimated



The projected births for 2000 through 2006 are estimated using a weighted average.

The weighting is as follows:

$$\begin{array}{r}
 50\% \text{ of the 03 year ave} = 184.17 \\
 30\% \text{ of the 07 year ave} = 117.99 \\
 15\% \text{ of the 10 year ave} = 58.28 \\
 05\% \text{ of the 18 year ave} = \underline{18.38} \\
 \hline
 378.81
 \end{array}$$

Combined King Philip Regional School District Member Towns Survival Ratios

Live Birth Data Source: Commonwealth of Massachusetts

Survival Rates:

Year	Pre-K	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1992	0.0	97.9	108.5	96.2	96.6	100.0	97.9	99.7	102.3	98.2	77.8	96.1	94.7	107.2
1993	0.0	102.1	103.5	100.3	98.9	101.1	97.0	99.6	94.4	99.4	76.1	92.1	98.0	104.0
1994	0.0	108.2	108.3	104.7	100.8	105.7	97.1	83.9	113.1	68.2	82.5	76.5	95.9	95.8
1995	0.0	113.5	114.6	99.1	98.7	101.3	100.5	101.4	116.9	91.9	111.1	76.9	128.6	103.7
1996	0.0	108.8	104.9	96.1	100.5	102.0	100.0	98.4	92.7	98.0	72.8	93.4	90.8	99.2
1997	0.0	106.1	106.8	99.8	100.2	98.4	98.0	103.0	98.4	100.3	70.2	93.5	96.0	103.9
1998	0.0	97.4	108.0	96.8	101.1	98.1	99.3	97.2	91.8	94.1	79.1	99.6	95.5	100.0
1999	0.0	100.7	110.8	100.9	100.5	98.7	101.7	98.6	94.0	100.3	73.9	94.9	98.3	98.4
2000	0.0	105.6	106.7	97.8	101.6	99.5	99.6	96.2	93.0	98.1	79.9	97.2	97.3	96.1
2001	0.0	96.7	105.3	100.4	102.3	98.2	100.5	99.8	93.8	101.6	84.4	96.4	95.0	94.4

Survival Rate Averages:

3 Years	101.0	107.6	99.7	101.4	98.8	100.6	98.2	93.6	100.0	79.4	96.2	96.9	96.3
6 Years	102.5	107.1	98.6	101.0	99.2	99.8	98.8	93.9	98.7	76.7	95.8	95.5	98.7
7 Years	104.1	108.2	98.7	100.7	99.5	99.9	99.2	97.2	97.7	81.6	93.1	100.2	99.4
10 Years	103.7	107.7	99.2	100.1	100.3	99.2	97.8	99.0	95.0	80.8	91.6	99.0	100.3

**Combined King Philip Regional School District Member Towns
Public School Student Enrollment Report**

2002 - 2011 Projections Based Upon 10 Year Survival Rate Using Weighted Average Commonwealth of MA Birth Estimates

Year	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	K-6	Jr HS	Sr HS	KPSD	Total
Actual:																		
1989	370	380	281	332	303	326	269	264	292	178	176	153	151	2,261	556	658	1,214	3,475
1990	341	393	363	293	332	304	324	264	292	178	176	153	151	2,350	556	658	1,214	3,564
1991	365	366	385	364	290	338	304	336	275	204	187	209	203	2,412	611	803	1,414	3,826
1992	368	396	352	372	364	284	337	311	330	214	196	177	224	2,473	641	811	1,452	3,925
1993	397	381	397	348	376	353	283	318	309	251	197	192	184	2,535	627	824	1,451	3,986
1994	383	430	399	400	368	365	296	320	217	255	192	189	184	2,641	537	820	1,357	3,998
1995	429	439	426	394	405	370	370	346	294	241	196	247	196	2,833	640	880	1,520	4,353
1996	409	450	422	428	402	405	364	343	339	214	225	178	245	2,880	682	862	1,544	4,424
1997	401	437	449	423	421	394	417	358	344	238	200	216	185	2,942	702	839	1,541	4,483
1998	408	433	423	454	415	418	383	383	337	272	237	191	216	2,934	720	916	1,636	4,570
1999	434	452	437	425	448	422	412	360	384	249	258	233	188	3,030	744	928	1,672	4,702
2000	399	463	442	444	423	446	406	383	353	307	242	251	224	3,023	736	1,024	1,760	4,783
2001	406	420	465	452	436	425	445	381	389	298	296	230	237	3,049	770	1,061	1,831	4,880
Estimated:																		
2002	383	437	417	466	453	432	416	441	362	314	273	293	231	3,003	803	1,111	1,914	4,917
2003	368	412	434	417	467	450	423	411	419	292	288	270	294	2,970	830	1,145	1,975	4,945
2004	395	397	409	434	418	463	439	419	391	338	268	285	271	2,956	809	1,162	1,972	4,928
2005	393	426	393	409	436	415	453	435	398	316	310	265	286	2,924	833	1,177	2,010	4,934
2006	393	423	422	394	411	432	406	448	413	321	289	307	266	2,880	862	1,183	2,045	4,925
2007	393	423	420	423	395	407	422	402	426	334	294	287	308	2,883	827	1,223	2,050	4,933
2008	393	423	420	420	424	392	398	418	382	344	306	291	287	2,870	800	1,229	2,029	4,898
2009	393	423	420	420	422	420	383	394	397	308	315	303	292	2,881	792	1,219	2,010	4,891
2010	393	423	420	420	422	418	411	379	374	321	282	312	304	2,906	754	1,219	1,973	4,879
2011	393	423	420	420	422	418	409	407	360	302	294	280	313	2,904	767	1,189	1,957	4,861

Observations:

- 1 **KPRSD Highest Student Population:** 2,050 During 2007
- 2 **Percentage +/- from 2001 at 2011:** 6.86%
- 3 **Current % of District:** N/A
- 4 **Estimated % of District at 2011:** N/A
- 5 **10 Year Relative District Membership + / -** N/A

**King Philip Regional School District
Historical Dwelling Units/Permits Analysis**

Source: MA Dept of Revenue/Building Dept

Calendar Year	Dwelling Units	Annual Increase	Permits Issued
1989	N/A	N/A	119
1990	N/A	N/A	106
1991	6,868	N/A	112
1992	7,004	136	155
1993	7,149	145	203
1994	7,380	231	172
1995	7,520	140	137
1996	7,593	73	94
1997	7,703	110	116
1998	7,843	140	127
1999	7,965	122	130
2000	8,098	133	129
2001	8,149	51	N/A

10 Year Average Annual Unit Increase: 128

10 Year Average Annual Permits Issued: 138

**King Philip Regional School District
Historical Dwelling Unit Analysis**

Source: MA Dept of Revenue

Calendar Year	Dwelling Units	Annual Increase
1989	N/A	N/A
1990	N/A	N/A
1991	6,868	N/A
1992	7,004	136
1993	7,149	145
1994	7,380	231
1995	7,520	140
1996	7,593	73
1997	7,703	110
1998	7,843	140
1999	7,965	122
2000	8,098	133
2001	8,149	51
Average Annual Increase		<u>128</u>

Estimated Dwelling Units

2002	8,277
2003	8,405
2004	8,533
2005	8,661
2006	8,790
2007	8,918
2008	9,046
2009	9,174
2010	9,302
2011	9,430

**King Philip Regional School District
Historical Student Per Dwelling Unit Analysis**

Fiscal Year	Dwelling Units	Student Enrollment	Students Per Unit
1990	N/A	3,482	-
1991	N/A	3,654	-
1992	6,868	3,820	0.56
1993	7,004	3,907	0.56
1994	7,149	3,903	0.55
1995	7,380	4,146	0.56
1996	7,520	4,262	0.57
1997	7,593	4,372	0.58
1998	7,703	4,470	0.58
1999	7,843	4,485	0.57
2000	7,965	4,702	0.59
2001	8,098	4,783	0.59
2002	8,149	4,880	0.60
1 Year Average Student/Unit			0.60

Estimated Student Enrollment

Fiscal Year	Dwelling Units	Students Per Unit	Student Enrollment
2003	8,277	0.60	4,957
2004	8,405	0.60	5,033
2005	8,533	0.60	5,110
2006	8,661	0.60	5,187
2007	8,790	0.60	5,264
2008	8,918	0.60	5,340
2009	9,046	0.60	5,417
2010	9,174	0.60	5,494
2011	9,302	0.60	5,570
2012	9,430	0.60	5,647

Appendix

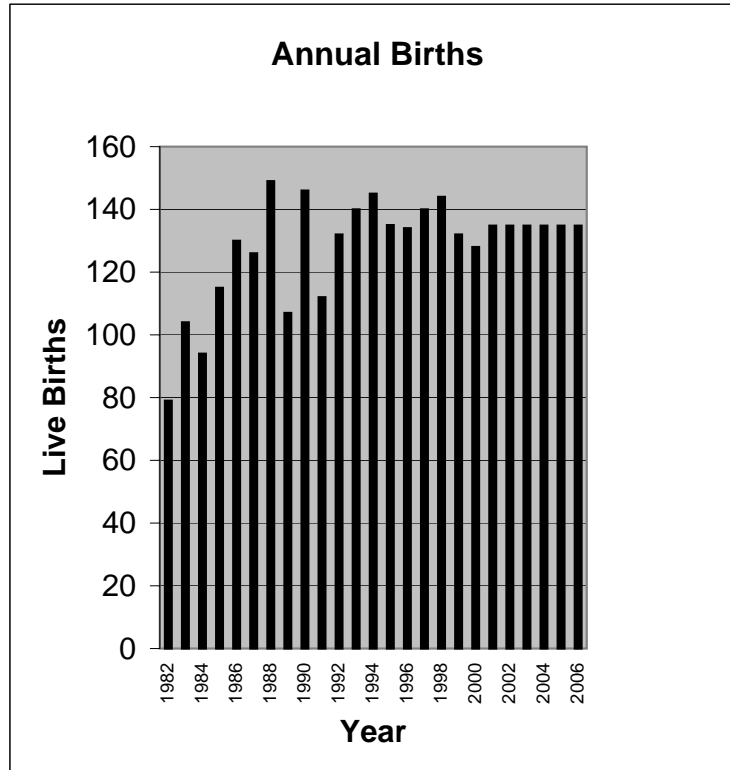
Updated 10 - Year Student Enrollment Projections

Town of Norfolk

Town Of Norfolk

History of Live Births With Weighted Estimates
Source: Town Clerk

Year	Births	Comments
1982	79	
1983	104	
1984	94	3 Yr Ave: 135
1985	115	
1986	130	
1987	126	
1988	149	7 Yr Ave: 137
1989	107	
1990	146	
1991	112	
1992	132	10 Yr Ave: 134
1993	140	
1994	145	
1995	135	
1996	134	19 Yr Ave: 126
1997	140	
1998	144	
1999	132	
2000	128	
2001	135	Estimated
2002	135	Estimated
2003	135	Estimated
2004	135	Estimated
2005	135	Estimated
2006	135	Estimated



The projected births for 2001 through 2006 are estimated using a weighted average.

The weighting is as follows:

50% of the 03 year ave =	67.33
30% of the 07 year ave =	41.06
15% of the 10 year ave =	20.13
05% of the 19 year ave =	<u>6.29</u>
	134.82

Town of Norfolk Survival Ratios

Live Birth Data Source: Town of Norfolk

Survival Rates:

Year	Pre-K	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1992	0.0	112.70	100.66	100.00	95.42	102.38	94.44	97.41	85.83	95.83	52.87	100.00	96.72	102.04
1993	0.0	102.68	98.59	96.05	100.00	97.26	97.67	97.06	98.23	101.94	57.61	91.30	89.23	101.69
1994	0.0	129.91	113.73	102.14	106.16	100.72	100.00	100.00	95.96	94.59	68.57	103.77	88.10	108.62
1995	0.0	106.16	107.19	98.28	100.70	94.19	98.56	98.59	86.51	94.74	74.29	98.61	94.55	100.00
1996	0.0	156.25	112.26	95.97	98.83	102.08	100.68	94.16	89.29	100.00	81.11	91.03	98.59	107.69
1997	0.0	116.67	105.71	98.85	102.10	95.27	102.04	98.64	79.84	98.40	78.90	97.26	92.96	101.43
1998	0.0	116.43	96.10	98.92	98.84	95.21	98.76	98.00	88.28	98.06	66.67	84.88	88.73	89.39
1999	0.0	115.86	106.13	112.84	84.15	104.12	119.42	84.91	91.84	92.19	93.07	91.46	113.70	112.70
2000	0.0	116.30	103.57	97.69	98.80	99.35	101.13	97.59	90.37	102.22	81.36	97.87	100.00	93.98
2001	0.0	111.19	104.46	95.40	98.82	98.79	99.35	96.09	87.65	98.36	78.26	98.96	91.30	98.67

Survival Rate Averages:

3 Years	114.5	104.7	102.0	93.9	100.8	106.6	92.9	90.0	97.6	84.2	96.1	101.7	101.8
6 Years	122.1	104.7	99.9	96.9	99.1	103.6	94.9	87.9	98.2	79.9	93.6	97.5	100.6
7 Years	119.8	105.1	99.7	97.5	98.4	102.8	95.4	87.7	97.7	79.1	94.3	97.1	100.6
10 Years	118.4	104.8	99.6	98.4	98.9	101.2	96.2	89.4	97.6	73.3	95.5	95.4	101.6

Town of Norfolk
Public School Student Enrollment Report
2002 - 2011 Projections Based Upon 10 Year Survival Rate Using Weighted Average Town of Norfolk Birth Estimates

Year	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	K-6	Jr HS	Sr HS	KPSD	Total
Actual:																		
1989	143	126	106	117	111	110	97	94	91	51	70	45	72	810	185	238	423	1,233
1990	134	157	123	110	117	115	106	88	98	53	48	50	52	862	186	203	389	1,251
1991	151	138	153	126	108	116	120	96	87	65	61	49	72	912	183	247	430	1,342
1992	142	152	138	146	129	102	113	103	92	46	65	59	50	922	195	220	415	1,337
1993	153	140	146	138	142	126	99	111	105	53	42	58	60	944	216	213	429	1,373
1994	139	174	143	155	139	142	126	95	105	72	55	37	63	1,018	200	227	427	1,445
1995	155	149	171	144	146	137	140	109	90	78	71	52	37	1,042	199	238	437	1,479
1996	175	174	143	169	147	147	129	125	109	73	71	70	56	1,084	234	270	504	1,588
1997	154	185	172	146	161	150	145	103	123	86	71	66	71	1,113	226	294	520	1,633
1998	163	148	183	170	139	159	147	128	101	82	73	63	59	1,109	229	277	506	1,615
1999	168	173	167	154	177	166	135	135	118	94	75	83	71	1,140	253	323	576	1,716
2000	157	174	169	165	153	179	162	122	138	96	92	75	78	1,159	260	341	601	1,760
2001	149	164	166	167	163	152	172	142	120	108	95	84	74	1,133	262	361	623	1,756
Estimated:																		
2002	166	156	163	163	165	165	146	154	139	88	103	91	85	1,125	292	367	659	1,785
2003	171	174	156	161	162	167	159	131	150	102	84	98	92	1,148	281	376	657	1,805
2004	156	179	173	153	159	164	161	142	128	110	97	80	100	1,145	270	387	657	1,801
2005	152	164	178	170	151	161	157	144	139	94	105	93	81	1,134	282	373	655	1,789
2006	160	159	163	175	169	153	155	141	140	102	89	100	94	1,134	281	385	666	1,800
2007	160	167	158	161	173	171	148	138	137	103	97	85	102	1,137	276	387	663	1,800
2008	160	167	167	156	159	175	164	132	135	101	98	92	87	1,148	267	378	645	1,793
2009	160	167	167	164	154	161	169	147	129	99	96	94	94	1,142	275	383	658	1,800
2010	160	167	167	164	162	156	155	151	143	94	95	92	95	1,131	294	376	670	1,801
2011	160	167	167	164	162	164	150	138	147	105	90	90	93	1,134	286	378	664	1,799

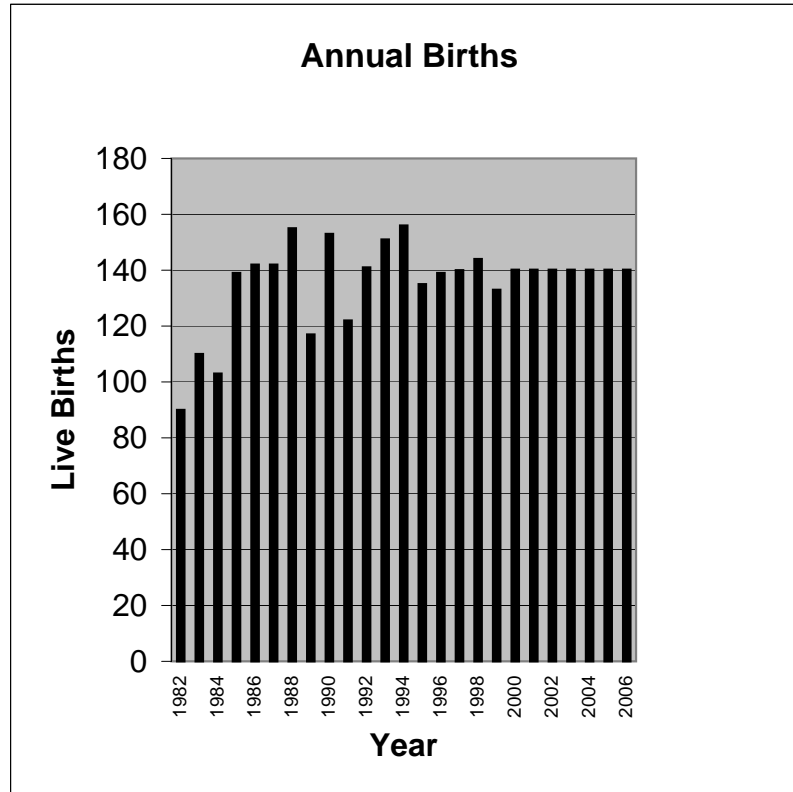
Observations:

- 1 **Highest Student Population:** 1,805 During 2003
- 2 **Percentage +/- from 2001 to 2011:** 2.42%
- 3 **Current % of District:** 34.03%
- 4 **Estimated % of District at 2011:** 30.83%
- 5 **10 Year Relative District Membership + / -** -9.38%

Town Of Norfolk

History of Live Births With Weighted Estimates
Source: Commonwealth of Massachusetts

Year	Births	Comments
1982	90	
1983	110	
1984	103	3 Yr Ave: 139
1985	139	
1986	142	
1987	142	
1988	155	7 Yr Ave: 143
1989	117	
1990	153	
1991	122	
1992	141	10 Yr Ave: 141
1993	151	
1994	156	
1995	135	
1996	139	18 Yr Ave: 134
1997	140	
1998	144	
1999	133	
2000	140	Estimated
2001	140	Estimated
2002	140	Estimated
2003	140	Estimated
2004	140	Estimated
2005	140	Estimated
2006	140	Estimated



The projected births for 2000 through 2006 are estimated using a weighted average.

The weighting is as follows:

$$\begin{array}{r}
 50\% \text{ of the 03 year ave} = 69.50 \\
 30\% \text{ of the 07 year ave} = 42.77 \\
 15\% \text{ of the 10 year ave} = 21.21 \\
 05\% \text{ of the 18 year ave} = \underline{6.70} \\
 \hline
 140.18
 \end{array}$$

Town of Norfolk Survival Ratios

Live Birth Data Source: Commonwealth of Massachusetts

Survival Rates:

Year	Pre-K	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1992	0.0	100.00	100.66	100.00	95.42	102.38	94.44	97.41	85.83	95.83	52.87	100.00	96.72	102.04
1993	0.0	98.71	98.59	96.05	100.00	97.26	97.67	97.06	98.23	101.94	57.61	91.30	89.23	101.69
1994	0.0	118.80	113.73	102.14	106.16	100.72	100.00	100.00	95.96	94.59	68.57	103.77	88.10	108.62
1995	0.0	101.31	107.19	98.28	100.70	94.19	98.56	98.59	86.51	94.74	74.29	98.61	94.55	100.00
1996	0.0	143.44	112.26	95.97	98.83	102.08	100.68	94.16	89.29	100.00	81.11	91.03	98.59	107.69
1997	0.0	109.22	105.71	98.85	102.10	95.27	102.04	98.64	79.84	98.40	78.90	97.26	92.96	101.43
1998	0.0	107.95	96.10	98.92	98.84	95.21	98.76	98.00	88.28	98.06	66.67	84.88	88.73	89.39
1999	0.0	107.69	106.13	112.84	84.15	104.12	119.42	84.91	91.84	92.19	93.07	91.46	113.70	112.70
2000	0.0	116.30	103.57	97.69	98.80	99.35	101.13	97.59	90.37	102.22	81.36	97.87	100.00	93.98
2001	0.0	107.19	96.10	95.40	98.82	98.79	99.35	96.09	87.65	98.36	78.26	98.96	91.30	98.67

Survival Rate Averages:

3 Years	110.4	101.9	102.0	93.9	100.8	106.6	92.9	90.0	97.6	84.2	96.1	101.7	101.8
6 Years	115.3	103.3	99.9	96.9	99.1	103.6	94.9	87.9	98.2	79.9	93.6	97.5	100.6
7 Years	113.3	103.9	99.7	97.5	98.4	102.8	95.4	87.7	97.7	79.1	94.3	97.1	100.6
10 Years	111.1	104.0	99.6	98.4	98.9	101.2	96.2	89.4	97.6	73.3	95.5	95.4	101.6

Town of Norfolk
Public School Student Enrollment Report
2002 - 2011 Projections Based Upon 10 Year Survival Rate Using Weighted Average Commonwealth of MA Birth Estimates

Year	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	K-6	Jr HS	Sr HS	KPSD	Total
Actual:																		
1989	143	126	106	117	111	110	97	94	91	51	70	45	72	810	185	238	423	1,233
1990	134	157	123	110	117	115	106	88	98	53	48	50	52	862	186	203	389	1,251
1991	151	138	153	126	108	116	120	96	87	65	61	49	72	912	183	247	430	1,342
1992	142	152	138	146	129	102	113	103	92	46	65	59	50	922	195	220	415	1,337
1993	153	140	146	138	142	126	99	111	105	53	42	58	60	944	216	213	429	1,373
1994	139	174	143	155	139	142	126	95	105	72	55	37	63	1,018	200	227	427	1,445
1995	155	149	171	144	146	137	140	109	90	78	71	52	37	1,042	199	238	437	1,479
1996	175	174	143	169	147	147	129	125	109	73	71	70	56	1,084	234	270	504	1,588
1997	154	185	172	146	161	150	145	103	123	86	71	66	71	1,113	226	294	520	1,633
1998	163	148	183	170	139	159	147	128	101	82	73	63	59	1,109	229	277	506	1,615
1999	168	173	167	154	177	166	135	135	118	94	75	83	71	1,140	253	323	576	1,716
2000	157	174	169	165	153	179	162	122	138	96	92	75	78	1,159	260	341	601	1,760
2001	149	164	166	167	163	152	172	142	120	108	95	84	74	1,133	262	361	623	1,756
Estimated:																		
2002	155	155	163	163	165	165	146	154	139	88	103	91	85	1,114	292	367	659	1,773
2003	160	162	154	161	162	167	159	131	150	102	84	98	92	1,124	281	376	657	1,781
2004	148	166	161	152	159	164	161	142	128	110	97	80	100	1,110	270	387	657	1,767
2005	156	154	166	158	150	161	157	144	139	94	105	93	81	1,102	282	373	655	1,757
2006	156	162	153	163	157	152	155	141	140	102	89	100	94	1,097	281	385	666	1,764
2007	156	162	161	151	161	159	146	138	137	103	97	85	102	1,096	276	387	663	1,759
2008	156	162	161	159	149	163	153	131	135	101	98	92	87	1,103	266	378	644	1,747
2009	156	162	161	159	157	151	157	137	128	99	96	94	94	1,102	264	383	647	1,750
2010	156	162	161	159	157	159	145	140	133	94	95	92	95	1,099	274	375	649	1,747
2011	156	162	161	159	157	159	153	130	137	98	89	90	93	1,106	267	370	637	1,744

Observations:

- 1 **Highest Student Population:** 1,781 During 2006
- 2 **Percentage +/- from 2001 to 2011:** -0.70%
- 3 **Current % of District:** 34.03%
- 4 **Estimated % of District at 2011:** 32.56%
- 5 **10 Year Relative District Membership + / -** -4.30%

**Town of Norfolk
Historical Dwelling Units/Permits Analysis**

Source: MA Dept of Revenue/Building Dept

Calendar Year	Dwelling Units	Annual Increase	Permits Issued
1989	N/A	N/A	44
1990	N/A	N/A	44
1991	2,389	N/A	37
1992	2,460	71	47
1993	2,506	46	64
1994	2,570	64	43
1995	2,606	36	27
1996	2,633	27	33
1997	2,669	36	34
1998	2,704	35	31
1999	2,737	33	40
2000	2,770	33	34
2001	2,774	4	N/A

10 Year Average Annual Unit Increase 39

10 Year Average Annual Permits Issued: 39

**Town of Norfolk
Historical Dwelling Unit Analysis**

Source: Board of Assessors

Calendar Year	Dwelling Units	Annual Increase
1989	N/A	N/A
1990	N/A	N/A
1991	2,389	N/A
1992	2,460	71
1993	2,506	46
1994	2,570	64
1995	2,606	36
1996	2,633	27
1997	2,669	36
1998	2,704	35
1999	2,737	33
2000	2,770	33
2001	2,774	4
10 Year Average Annual Increase		<u>39</u>

Estimated New Dwelling Units

2002	2,813
2003	2,851
2004	2,890
2005	2,928
2006	2,967
2007	3,005
2008	3,044
2009	3,082
2010	3,121
2011	3,159

**Town of Norfolk
Historical Students Per Dwelling Unit Analysis**

Fiscal Year	Dwelling Units	Student Enrollment	Students Per Unit
1990	N/A	1,233	-
1991	N/A	1,251	-
1992	2,389	1,342	0.56
1993	2,460	1,337	0.54
1994	2,506	1,373	0.55
1995	2,570	1,445	0.56
1996	2,606	1,479	0.57
1997	2,633	1,588	0.60
1998	2,669	1,633	0.61
1999	2,704	1,615	0.60
2000	2,737	1,716	0.63
2001	2,770	1,760	0.64
2002	2,774	1,756	0.63
3 Year Average Students/Unit			0.63

Estimated Student Enrollment

Fiscal Year	Dwelling Units	Students Per Unit	Student Enrollment
2003	2,813	0.63	1,777
2004	2,851	0.63	1,801
2005	2,890	0.63	1,826
2006	2,928	0.63	1,850
2007	2,967	0.63	1,874
2008	3,005	0.63	1,899
2009	3,044	0.63	1,923
2010	3,082	0.63	1,947
2011	3,121	0.63	1,971
2012	3,159	0.63	1,996

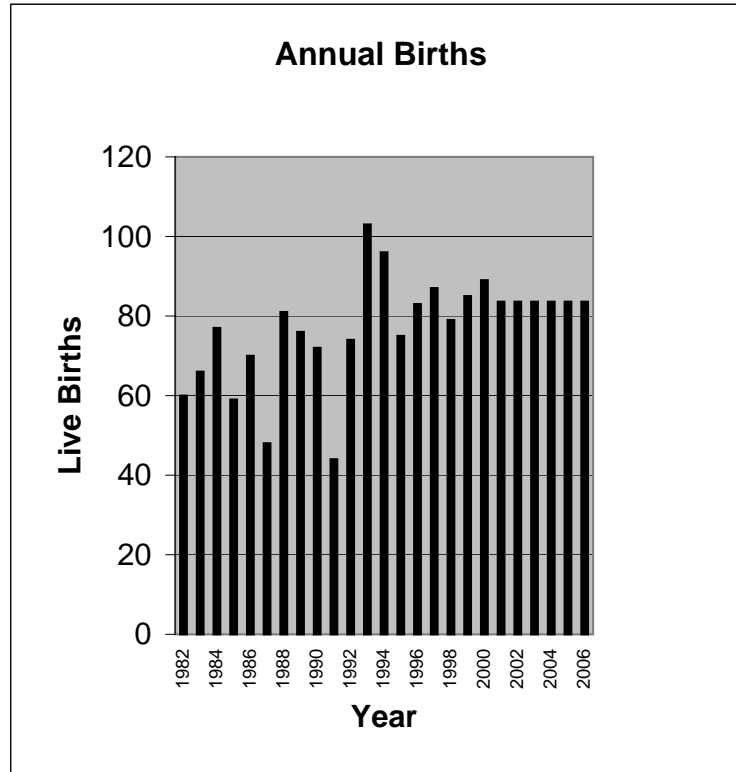
Updated 10 - Year Student Enrollment Projections

Town of Plainville

Town Of Plainville

History of Live Births With Weighted Estimates
Source: Town Clerk

Year	Births	Comments
1982	60	
1983	66	
1984	77	3 Yr Ave: 84
1985	59	
1986	70	
1987	48	
1988	81	7 Yr Ave: 85
1989	76	
1990	72	
1991	44	
1992	74	10 Yr Ave: 82
1993	103	
1994	96	
1995	75	
1996	83	19 Yr Ave: 75
1997	87	
1998	79	
1999	85	
2000	89	
2001	84	Estimated
2002	84	Estimated
2003	84	Estimated
2004	84	Estimated
2005	84	Estimated
2006	84	Estimated



The projected births for 2001 through 2006 are estimated using a weighted average.

The weighting is as follows:

$$\begin{array}{r}
 50\% \text{ of the 03 year ave} = 42.17 \\
 30\% \text{ of the 07 year ave} = 25.46 \\
 15\% \text{ of the 10 year ave} = 12.23 \\
 05\% \text{ of the 19 year ave} = \underline{3.75} \\
 \hline
 83.60
 \end{array}$$

Town of Plainville Survival Ratios

Live Birth Data Source: Town of Plainville

Survival Rates:

Year	Pre-K	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1992	0.0	189.6	105.4	98.9	94.3	95.0	100.0	102.3	102.9	97.6	87.3	96.9	102.3	109.7
1993	0.0	123.5	103.3	104.1	102.3	106.1	97.9	102.9	80.7	107.0	82.5	87.0	71.4	131.1
1994	0.0	117.1	106.0	97.9	97.0	113.5	101.1	95.7	125.7	108.5	80.3	98.5	98.3	120.0
1995	0.0	127.8	110.1	100.9	95.7	102.0	98.0	109.1	80.0	103.4	66.2	103.3	96.9	113.6
1996	0.0	259.1	104.3	104.1	99.1	104.5	101.0	100.0	90.6	95.8	74.7	88.2	101.6	101.6
1997	0.0	127.0	95.6	101.0	103.9	94.3	94.6	101.0	94.9	98.9	73.9	89.7	93.3	96.9
1998	0.0	94.2	108.5	94.5	105.2	95.3	104.0	100.0	99.0	107.4	66.3	98.0	96.7	107.1
1999	0.0	116.7	113.4	102.0	95.1	95.1	100.0	99.0	98.9	107.9	64.4	115.8	114.0	72.9
2000	0.0	150.7	92.9	99.1	99.0	103.1	100.0	94.1	97.1	93.0	69.7	95.4	92.4	93.0
2001	0.0	126.5	95.6	106.7	107.3	96.1	103.0	104.1	104.2	107.0	91.3	97.4	104.8	83.6

Survival Rate Averages:

3 Years	131.3	100.6	102.6	100.5	98.1	101.0	99.1	100.0	102.6	75.1	102.8	103.8	83.2
6 Years	145.7	101.7	101.2	101.6	98.1	100.4	99.7	97.5	101.7	73.4	97.4	100.5	92.5
7 Years	143.1	102.9	101.2	100.8	98.6	100.1	101.0	95.0	101.9	72.4	98.3	100.0	95.5
10 Years	143.2	103.5	100.9	99.9	100.5	100.0	100.8	97.4	102.7	75.7	97.0	97.2	102.9

Town of Plainville
Public School Student Enrollment Report
2002 - 2011 Projections Based Upon 10 Year Survival Rate Using Weighted Average Town of Plainville Birth Estimates

Year	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	K-6	Jr HS	Sr HS	KPSD	Total
Actual:																		
1989	89	105	69	82	69	81	76	76	66	49	50	40	38	571	142	177	319	890
1990	86	84	102	71	83	71	83	82	74	47	60	54	64	580	156	225	381	961
1991	92	88	87	101	68	86	69	82	79	65	44	62	63	591	161	234	395	986
1992	91	97	87	82	96	68	88	71	80	69	63	45	68	609	151	245	396	1,005
1993	100	94	101	89	87	94	70	71	76	66	60	45	59	635	147	230	377	1,012
1994	89	106	92	98	101	88	90	88	77	61	65	59	54	664	165	239	404	1,068
1995	92	98	107	88	100	99	96	72	91	51	63	63	67	680	163	244	407	1,087
1996	114	96	102	106	92	101	99	87	69	68	45	64	64	710	156	241	397	1,107
1997	94	109	97	106	100	87	102	94	86	51	61	42	62	695	180	216	396	1,091
1998	97	102	103	102	101	104	87	101	101	57	50	59	45	696	202	211	413	1,109
1999	112	110	104	98	97	101	103	86	109	65	66	57	43	725	195	231	426	1,151
2000	113	104	109	103	101	97	95	100	80	76	62	61	53	722	180	252	432	1,154
2001	105	108	111	117	99	104	101	99	107	73	74	65	51	745	206	263	469	1,214
Estimated:																		
2002	125	109	109	111	118	99	105	98	102	81	71	72	67	775	200	291	491	1,265
2003	113	129	110	109	111	118	100	102	101	77	79	69	74	789	203	298	501	1,291
2004	122	117	130	110	109	111	119	97	105	76	75	76	71	818	202	298	500	1,318
2005	127	126	118	130	110	109	112	115	100	79	74	72	79	834	215	305	520	1,353
2006	120	132	127	118	131	110	110	109	119	75	77	72	75	848	228	299	527	1,375
2007	120	124	133	127	119	131	111	107	112	90	73	75	74	864	220	312	532	1,396
2008	120	124	125	133	128	119	132	108	110	85	87	71	77	880	218	320	539	1,418
2009	120	124	125	125	134	128	120	128	111	83	82	85	73	875	239	324	563	1,438
2010	120	124	125	125	126	134	129	116	132	84	81	80	87	882	248	332	580	1,462
2011	120	124	125	125	126	126	135	125	120	100	81	79	82	879	245	342	587	1,467

Observations:

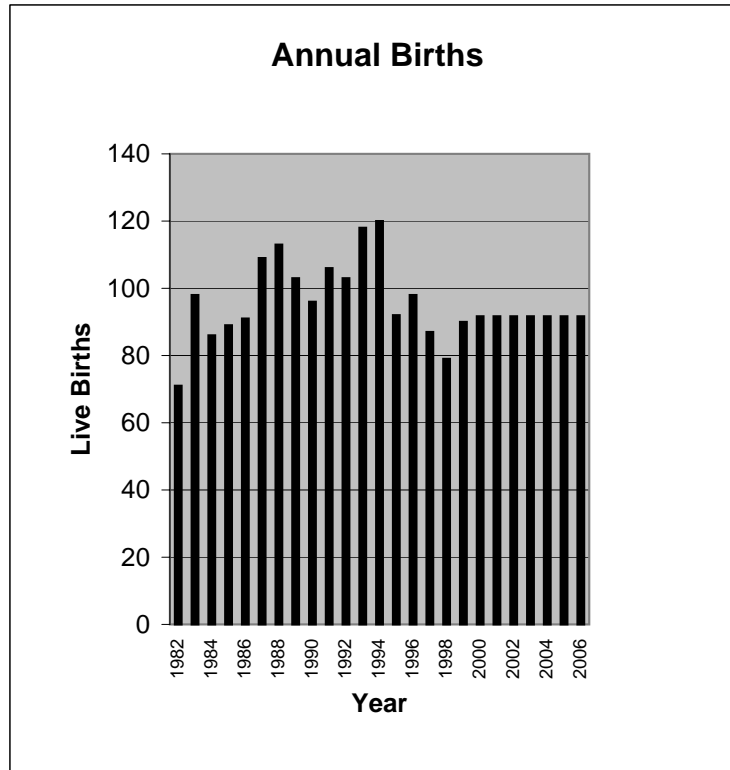
- 1 **Highest Student Population:** 1,467 During 2008
- 2 **Percentage +/- from 2001 at 2011:** 20.81%
- 3 **Current % of District:** 25.61%
- 4 **Estimated % of District at 2011:** 27.26%
- 5 **10 Year Relative District Membership + / -** 6.43%

Town Of Plainville

History of Live Births With Weighted Estimates

Source: Commonwealth of Massachusetts

Year	Births	Comments
1982	71	
1983	98	
1984	86	3 Yr Ave: 85
1985	89	
1986	91	
1987	109	
1988	113	7 Yr Ave: 98
1989	103	
1990	96	
1991	106	
1992	103	10 Yr Ave: 99
1993	118	
1994	120	
1995	92	
1996	98	18 Yr Ave: 97
1997	87	
1998	79	
1999	90	
2000	92	Estimated
2001	92	Estimated
2002	92	Estimated
2003	92	Estimated
2004	92	Estimated
2005	92	Estimated
2006	92	Estimated



The projected births for 2000 through 2006 are estimated using a weighted average.

The weighting is as follows:

50% of the 03 year ave =	42.67
30% of the 07 year ave =	29.31
15% of the 10 year ave =	14.84
05% of the 18 year ave =	4.86
	91.67

Town of Plainville Survival Ratios

Live Birth Data Source: Commonwealth of Massachusetts

Survival Rates:

Year	Pre-K	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1992	0.0	83.5	105.4	98.9	94.3	95.0	100.0	102.3	102.9	97.6	87.3	96.9	102.3	109.7
1993	0.0	88.5	103.3	104.1	102.3	106.1	97.9	102.9	80.7	107.0	82.5	87.0	71.4	131.1
1994	0.0	86.4	106.0	97.9	97.0	113.5	101.1	95.7	125.7	108.5	80.3	98.5	98.3	120.0
1995	0.0	95.8	110.1	100.9	95.7	102.0	98.0	109.1	80.0	103.4	66.2	103.3	96.9	113.6
1996	0.0	107.5	104.3	104.1	99.1	104.5	101.0	100.0	90.6	95.8	74.7	88.2	101.6	101.6
1997	0.0	91.3	95.6	101.0	103.9	94.3	94.6	101.0	94.9	98.9	73.9	89.7	93.3	96.9
1998	0.0	82.2	108.5	94.5	105.2	95.3	104.0	100.0	99.0	107.4	66.3	98.0	96.7	107.1
1999	0.0	93.3	113.4	102.0	95.1	95.1	100.0	99.0	98.9	107.9	64.4	115.8	114.0	72.9
2000	0.0	122.8	92.9	99.1	99.0	103.1	100.0	94.1	97.1	93.0	69.7	95.4	92.4	93.0
2001	0.0	107.1	95.6	106.7	107.3	96.1	103.0	104.1	104.2	107.0	91.3	97.4	104.8	83.6

Survival Rate Averages:

3 Years	107.8	100.6	102.6	100.5	98.1	101.0	99.1	100.0	102.6	75.1	102.8	103.8	83.2
6 Years	100.7	101.7	101.2	101.6	98.1	100.4	99.7	97.5	101.7	73.4	97.4	100.5	92.5
7 Years	100.0	102.9	101.2	100.8	98.6	100.1	101.0	95.0	101.9	72.4	98.3	100.0	95.5
10 Years	95.9	103.5	100.9	99.9	100.5	100.0	100.8	97.4	102.7	75.7	97.0	97.2	102.9

**Town of Plainville
Public School Student Enrollment Report**

2002-2011 Projections Based Upon 10 year Survival Rate Using Weighted Average Commonwealth of MA Birth Estimates

Year	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	K-6	Jr HS	Sr HS	KPSD	Total
Actual:																		
1989	89	105	69	82	69	81	76	76	66	49	50	40	38	571	142	177	319	890
1990	86	84	102	71	83	71	83	82	74	47	60	54	64	580	156	225	381	961
1991	92	88	87	101	68	86	69	82	79	65	44	62	63	591	161	234	395	986
1992	91	97	87	82	96	68	88	71	80	69	63	45	68	609	151	245	396	1,005
1993	100	94	101	89	87	94	70	71	76	66	60	45	59	635	147	230	377	1,012
1994	89	106	92	98	101	88	90	88	77	61	65	59	54	664	165	239	404	1,068
1995	92	98	107	88	100	99	96	72	91	51	63	63	67	680	163	244	407	1,087
1996	114	96	102	106	92	101	99	87	69	68	45	64	64	710	156	241	397	1,107
1997	94	109	97	106	100	87	102	94	86	51	61	42	62	695	180	216	396	1,091
1998	97	102	103	102	101	104	87	101	101	57	50	59	45	696	202	211	413	1,109
1999	112	110	104	98	97	101	103	86	109	65	66	57	43	725	195	231	426	1,151
2000	113	104	109	103	101	97	95	100	80	76	62	61	53	722	180	252	432	1,154
2001	105	108	111	117	99	104	101	99	107	73	74	65	51	745	206	263	469	1,214
Estimated:																		
2002	83	109	109	111	118	99	105	98	102	81	71	72	67	733	200	291	491	1,224
2003	76	86	110	109	111	118	100	102	101	77	79	69	74	709	203	298	501	1,211
2004	86	78	87	110	109	111	119	97	105	76	75	76	71	701	202	298	500	1,201
2005	88	89	79	87	110	109	112	115	100	79	74	72	79	675	215	305	520	1,195
2006	88	91	90	79	87	110	110	109	119	75	77	72	75	656	228	299	527	1,183
2007	88	91	92	90	79	87	111	107	112	90	73	75	74	639	220	312	532	1,170
2008	88	91	92	92	90	79	88	108	110	85	87	71	77	620	218	320	539	1,159
2009	88	91	92	92	92	90	80	86	111	83	82	85	73	625	197	324	521	1,146
2010	88	91	92	92	92	92	91	78	88	84	81	80	87	638	166	332	498	1,136
2011	88	91	92	92	92	92	93	89	80	67	81	79	82	640	169	309	478	1,118

Observations:

- 1 **Highest Student Population:** 1,224 During 2002
- 2 **Percentage +/- from 2001 to 2011:** -7.93%
- 3 **Current % of District:** 25.61%
- 4 **Estimated % of District at 2011:** 24.44%
- 5 **10 Year Relative District Membership + / -** -4.60%

**Town of Plainville
Historical Dwelling Units/Permits Analysis**

Source: MA Dept of Revenue/Building Dept

Calendar Year	Dwelling Units	Annual Increase	Permits Issued
1989	1,690	N/A	18
1990	1,723	33	28
1991	1,761	38	30
1992	1,771	10	22
1993	1,805	34	23
1994	1,837	32	37
1995	1,877	40	48
1996	1,889	12	17
1997	1,912	23	26
1998	1,978	66	34
1999	2,029	51	53
2000	2,075	46	35
2001	2,101	26	N/A

10 Year Average Annual Unit Increase 34

10 Year Average Annual Permits Issued: 33

**Town of Plainville
Historical Dwelling Unit Analysis**

Source: MA Dept of Revenue

Calendar Year	Dwelling Units	Annual Increase
1989	1,690	N/A
1990	1,723	33
1991	1,761	38
1992	1,771	10
1993	1,805	34
1994	1,837	32
1995	1,877	40
1996	1,889	12
1997	1,912	23
1998	1,978	66
1999	2,029	51
2000	2,075	46
2001	2,101	26
10 Year Average Annual Increase		<u>34</u>

Estimated Dwelling Units

2002	2,135
2003	2,169
2004	2,203
2005	2,237
2006	2,271
2007	2,305
2008	2,339
2009	2,373
2010	2,407
2011	2,441

**Town of Plainville
Historical Students Per Dwelling Unit Analysis**

Fiscal Year	Dwelling Units	Student Enrollment	Students Per Unit
1990	1,690	890	0.53
1991	1,723	961	0.56
1992	1,761	986	0.56
1993	1,771	1,005	0.57
1994	1,805	1,012	0.56
1995	1,837	1,068	0.58
1996	1,877	1,087	0.58
1997	1,889	1,107	0.59
1998	1,912	1,091	0.57
1999	1,978	1,109	0.56
2000	2,029	1,151	0.57
2001	2,075	1,154	0.56
2002	2,101	1,214	0.58

1 Year Average Student/Unit 0.58

1 Year Average to compensate for 1999 permit for 120 apartment units

Estimated Student Enrollment

Fiscal Year	Dwelling Units	Students Per Unit	Student Enrollment
2003	2,135	0.58	1,234
2004	2,169	0.58	1,253
2005	2,203	0.58	1,273
2006	2,237	0.58	1,293
2007	2,271	0.58	1,312
2008	2,305	0.58	1,332
2009	2,339	0.58	1,352
2010	2,373	0.58	1,371
2011	2,407	0.58	1,391
2012	2,441	0.58	1,410

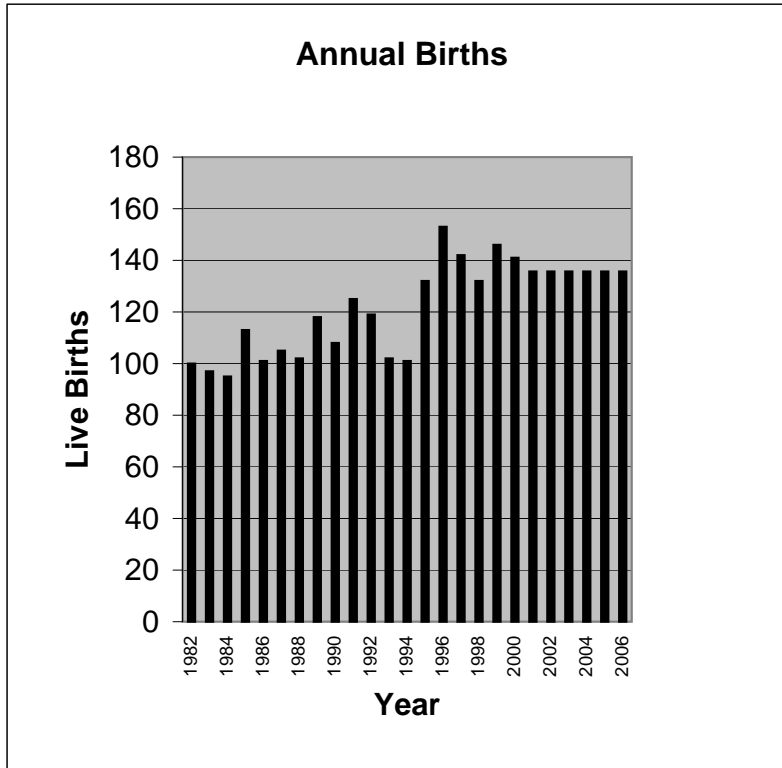
Updated 10 - Year Student Enrollment Projections

Town of Wrentham

Town Of Wrentham

History of Live Births With Weighted Estimates
Source: Town Clerk

Year	Births	Comments
1982	100	
1983	97	
1984	95	3 Yr Ave: 140
1985	113	
1986	101	
1987	105	
1988	102	7 Yr Ave: 135
1989	118	
1990	108	
1991	125	
1992	119	10 Yr Ave: 129
1993	102	
1994	101	
1995	132	
1996	153	19 Yr Ave: 117
1997	142	
1998	132	
1999	146	
2000	141	
2001	136	Estimated
2002	136	Estimated
2003	136	Estimated
2004	136	Estimated
2005	136	Estimated
2006	136	Estimated



The projected births for 2001 through 2006 are estimated using a weighted average.

The weighting is as follows:

$$\begin{array}{r}
 50\% \text{ of the 03 year ave} = 69.83 \\
 30\% \text{ of the 07 year ave} = 40.59 \\
 15\% \text{ of the 10 year ave} = 19.40 \\
 05\% \text{ of the 19 year ave} = \underline{5.87} \\
 \hline
 135.69
 \end{array}$$

Town of Wrentham
Public School Student Enrollment Report
2002 - 2011 Projections Based Upon 10 Year Survival Rate Using Weighted Average Town of Wrentham Birth Estimates

Year	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	K-6	Jr HS	Sr HS	KPSD	Total
Actual:																		
1989	138	149	106	133	123	135	96	102	103	77	77	60	60	880	205	274	479	1,359
1990	121	152	138	112	132	118	135	97	101	81	84	86	85	908	198	336	534	1,442
1991	122	140	145	137	114	136	115	132	99	91	89	86	86	909	231	352	583	1,492
1992	135	147	127	144	139	114	136	119	142	88	93	87	94	942	261	362	623	1,565
1993	144	147	150	121	147	133	114	135	101	94	68	84	80	956	236	326	562	1,518
1994	139	176	136	157	120	145	134	137	125	119	80	92	73	1,007	262	364	626	1,633
1995	159	163	177	137	161	126	145	120	126	88	122	78	94	1,068	246	382	628	1,696
1996	143	176	143	178	140	159	118	135	114	100	80	113	78	1,057	249	371	620	1,677
1997	137	174	167	143	174	144	166	142	129	83	96	75	116	1,105	271	370	641	1,746
1998	149	166	168	169	146	174	140	157	114	119	99	69	91	1,112	271	378	649	1,761
1999	154	169	166	173	174	155	174	139	157	90	117	93	74	1,165	296	374	670	1,835
2000	129	185	164	176	169	170	149	161	135	135	88	115	93	1,142	296	431	727	1,869
2001	152	148	188	168	174	169	172	140	162	117	127	81	112	1,171	302	437	739	1,910
Estimated:																		
2002	179	178	143	190	169	175	168	173	132	136	113	122	83	1,202	305	454	759	1,961
2003	166	209	171	145	192	170	174	169	164	111	131	109	125	1,227	333	475	808	2,035
2004	184	195	202	174	145	193	169	175	160	137	107	126	111	1,261	334	481	816	2,077
2005	178	215	188	204	175	146	191	170	165	134	132	103	129	1,298	335	498	833	2,131
2006	171	208	208	190	206	176	145	193	161	139	129	128	105	1,303	353	500	854	2,157
2007	171	200	200	210	191	207	175	146	182	135	134	124	130	1,355	328	523	851	2,206
2008	171	200	193	203	212	192	206	176	138	153	130	129	127	1,377	314	538	852	2,229
2009	171	200	193	195	204	213	191	207	166	116	147	125	131	1,368	373	520	893	2,260
2010	171	200	193	195	197	205	211	192	196	139	112	142	128	1,373	388	521	908	2,281
2011	171	200	193	195	197	198	204	213	182	164	134	108	145	1,358	394	551	945	2,303

Observations:

- 1 **Highest Student Population:** 2,303 During 2011
- 2 **Percentage +/- from 2001 to 2011:** 20.57%
- 3 **Current % of District:** 40.36%
- 4 **Estimated % of District at 2011:** 43.88%
- 5 **10 Year Relative District Membership + / -** 8.71%

Town of Wrentham Survival Ratios

Live Birth Data Source: Town of Wrentham

Survival Rates:

Year	Pre-K	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1992	0.0	128.57	120.49	90.71	99.31	101.46	100.00	100.00	103.48	107.58	88.89	102.20	97.75	109.30
1993	0.0	141.18	108.89	102.04	95.28	102.08	95.68	100.00	99.26	84.87	66.20	77.27	90.32	91.95
1994	0.0	117.80	122.22	92.52	104.67	99.17	98.64	100.75	120.18	92.59	117.82	85.11	135.29	86.90
1995	0.0	147.22	117.27	100.57	100.74	102.55	105.00	100.00	89.55	91.97	70.40	102.52	97.50	102.17
1996	0.0	114.40	110.69	87.73	100.56	102.19	98.76	93.65	93.10	95.00	79.37	90.91	92.62	100.00
1997	0.0	115.13	121.68	94.89	100.00	97.75	102.86	104.40	120.34	95.56	72.81	96.00	93.75	102.65
1998	0.0	146.08	121.17	96.55	101.20	102.10	100.00	97.22	94.58	80.28	92.25	119.28	71.88	121.33
1999	0.0	152.48	113.42	100.00	102.98	102.96	106.16	100.00	99.29	100.00	78.95	98.32	93.94	107.25
2000	0.0	97.73	120.13	97.04	106.02	97.69	97.70	96.13	92.53	97.12	85.99	97.78	98.29	100.00
2001	0.0	99.35	114.73	101.62	102.44	98.86	100.00	101.18	93.96	100.62	86.67	94.07	92.05	97.39

Survival Rate Averages:

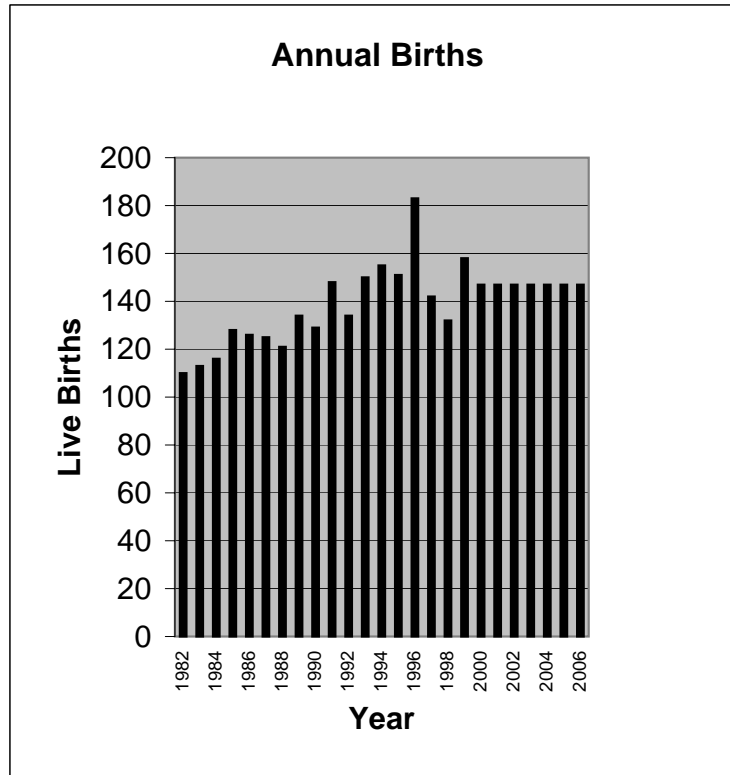
3 Years	116.5	116.1	99.6	103.8	99.8	101.3	99.1	95.3	99.2	83.9	96.7	94.8	101.5
6 Years	120.9	117.0	96.3	102.2	100.3	100.9	98.8	99.0	94.8	82.7	99.4	90.4	104.8
7 Years	124.6	117.0	96.9	102.0	100.6	101.5	98.9	97.6	94.4	80.9	99.8	91.4	104.4
10 Years	126.0	117.1	96.4	101.3	100.7	100.5	99.3	100.6	94.6	83.9	96.3	96.3	101.9

Town Of Wrentham

History of Live Births With Weighted Estimates

Source: Commonwealth of Massachusetts

Year	Births	Comments
1982	110	
1983	113	
1984	116	3 Yr Ave: 144
1985	128	
1986	126	
1987	125	
1988	121	7 Yr Ave: 153
1989	134	
1990	129	
1991	148	
1992	134	10 Yr Ave: 148
1993	150	
1994	155	
1995	151	
1996	183	18 Yr Ave: 136
1997	142	
1998	132	
1999	158	
2000	147	Estimated
2001	147	Estimated
2002	147	Estimated
2003	147	Estimated
2004	147	Estimated
2005	147	Estimated
2006	147	Estimated



The projected births for 2000 through 2006 are estimated using a weighted average.

The weighting is as follows:

$$\begin{array}{r}
 50\% \text{ of the 03 year ave} = 72.00 \\
 30\% \text{ of the 07 year ave} = 45.90 \\
 15\% \text{ of the 10 year ave} = 22.23 \\
 05\% \text{ of the 18 year ave} = \underline{6.82} \\
 \hline
 146.95
 \end{array}$$

Town of Wrentham
Public School Student Enrollment Report
2002 - 2011 Projections Based Upon 10 Year Survival Rate Using Weighted Average Commonwealth of MA Birth Estimates

Year	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	K-6	Jr HS	Sr HS	KPSD	Total
Actual:																		
1989	138	149	106	133	123	135	96	102	103	77	77	60	60	880	205	274	479	1,359
1990	121	152	138	112	132	118	135	97	101	81	84	86	85	908	198	336	534	1,442
1991	122	140	145	137	114	136	115	132	99	91	89	86	86	909	231	352	583	1,492
1992	135	147	127	144	139	114	136	119	142	88	93	87	94	942	261	362	623	1,565
1993	144	147	150	121	147	133	114	135	101	94	68	84	80	956	236	326	562	1,518
1994	139	176	136	157	120	145	134	137	125	119	80	92	73	1,007	262	364	626	1,633
1995	159	163	177	137	161	126	145	120	126	88	122	78	94	1,068	246	382	628	1,696
1996	143	176	143	178	140	159	118	135	114	100	80	113	78	1,057	249	371	620	1,677
1997	137	174	167	143	174	144	166	142	129	83	96	75	116	1,105	271	370	641	1,746
1998	149	166	168	169	146	174	140	157	114	119	99	69	91	1,112	271	378	649	1,761
1999	154	169	166	173	174	155	174	139	157	90	117	93	74	1,165	296	374	670	1,835
2000	129	185	164	176	169	170	149	161	135	135	88	115	93	1,142	296	431	727	1,869
2001	152	148	188	168	174	169	172	140	162	117	127	81	112	1,171	302	437	739	1,910
Estimated:																		
2002	145	178	143	190	169	175	168	173	132	136	113	122	83	1,168	305	454	759	1,927
2003	135	170	171	145	192	170	174	169	164	111	131	109	125	1,156	333	475	808	1,964
2004	161	158	163	174	145	193	169	175	160	137	107	126	111	1,163	334	481	816	1,979
2005	150	189	152	166	175	146	191	170	165	134	132	103	129	1,169	335	498	833	2,002
2006	150	175	182	154	167	176	145	193	161	139	129	128	105	1,149	353	500	854	2,002
2007	150	175	169	184	155	167	175	146	182	135	134	124	130	1,176	328	523	851	2,027
2008	150	175	169	171	185	156	166	176	138	153	130	129	127	1,173	314	538	852	2,026
2009	150	175	169	171	173	186	155	167	166	116	147	125	131	1,179	334	520	853	2,032
2010	150	175	169	171	173	173	185	156	158	139	112	142	128	1,197	314	521	835	2,031
2011	150	175	169	171	173	173	172	186	147	133	134	108	145	1,184	333	519	853	2,037

Observations:

- 1 **Highest Student Population:** 2,037 During 2011
- 2 **Percentage +/- from 2001 to 2011:** 6.63%
- 3 **Current % of District:** 40.36%
- 4 **Estimated % of District at 2011:** 43.58%
- 5 **10 Year Relative District Membership + / -** 7.98%

Town of Wrentham Survival Ratios

Live Birth Data Source: Commonwealth of Massachusetts

Survival Rates:

Year	Pre-K	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1992	0.0	108.00	120.49	90.71	99.31	101.46	100.00	100.00	103.48	107.58	88.89	102.20	97.75	109.30
1993	0.0	119.01	108.89	102.04	95.28	102.08	95.68	100.00	99.26	84.87	66.20	77.27	90.32	91.95
1994	0.0	103.73	122.22	92.52	104.67	99.17	98.64	100.75	120.18	92.59	117.82	85.11	135.29	86.90
1995	0.0	123.26	117.27	100.57	100.74	102.55	105.00	100.00	89.55	91.97	70.40	102.52	97.50	102.17
1996	0.0	96.62	110.69	87.73	100.56	102.19	98.76	93.65	93.10	95.00	79.37	90.91	92.62	100.00
1997	0.0	102.24	121.68	94.89	100.00	97.75	102.86	104.40	120.34	95.56	72.81	96.00	93.75	102.65
1998	0.0	99.33	121.17	96.55	101.20	102.10	100.00	97.22	94.58	80.28	92.25	119.28	71.88	121.33
1999	0.0	99.35	113.42	100.00	102.98	102.96	106.16	100.00	99.29	100.00	78.95	98.32	93.94	107.25
2000	0.0	85.43	120.13	97.04	106.02	97.69	97.70	96.13	92.53	97.12	85.99	97.78	98.29	100.00
2001	0.0	83.06	114.73	101.62	102.44	98.86	100.00	101.18	93.96	100.62	86.67	94.07	92.05	97.39

Survival Rate Averages:

3 Years	89.3	116.1	99.6	103.8	99.8	101.3	99.1	95.3	99.2	83.9	96.7	94.8	101.5
6 Years	94.3	117.0	96.3	102.2	100.3	100.9	98.8	99.0	94.8	82.7	99.4	90.4	104.8
7 Years	98.5	117.0	96.9	102.0	100.6	101.5	98.9	97.6	94.4	80.9	99.8	91.4	104.4
10 Years	102.0	117.1	96.4	101.3	100.7	100.5	99.3	100.6	94.6	83.9	96.3	96.3	101.9

**Town of Wrentham
Historical Dwelling Units/Permits Analysis**

Source: MA Dept of Revenue/Building Dept

Calendar Year	Dwelling Units	Annual Increase	Permits Issued
1989	2,667	N/A	57
1990	2,716	49	34
1991	2,718	2	45
1992	2,773	55	86
1993	2,838	65	116
1994	2,973	135	92
1995	3,037	64	62
1996	3,071	34	44
1997	3,122	51	56
1998	3,161	39	62
1999	3,199	38	37
2000	3,253	54	60
2001	3,274	21	N/A

10 Year Average Annual Unit Increase: 56

10 Year Average Annual Permits Issued: 66

**Town of Wrentham
Historical Dwelling Unit Analysis**

Source: Ma Dept of Revenue

Calendar Year	Dwelling Units	Annual Increase
1989	2,667	N/A
1990	2,716	49
1991	2,718	2
1992	2,773	55
1993	2,838	65
1994	2,973	135
1995	3,037	64
1996	3,071	34
1997	3,122	51
1998	3,161	39
1999	3,199	38
2000	3,253	54
2001	3,274	21
10 Year Average Annual Increase		<u>56</u>

Estimated Dwelling Units

2002	3,330
2003	3,385
2004	3,441
2005	3,496
2006	3,552
2007	3,608
2008	3,663
2009	3,719
2010	3,774
2011	3,830

**Town of Wrentham
Historical Student Per Dwelling Unit Analysis**

Fiscal Year	Dwelling Units	Student Enrollment	Students Per Unit
1990	2,667	1,359	0.51
1991	2,716	1,442	0.53
1992	2,718	1,492	0.55
1993	2,773	1,565	0.56
1994	2,838	1,518	0.53
1995	2,973	1,633	0.55
1996	3,037	1,696	0.56
1997	3,071	1,677	0.55
1998	3,122	1,746	0.56
1999	3,161	1,761	0.56
2000	3,199	1,835	0.57
2001	3,253	1,869	0.57
2002	3,274	1,910	0.58
3 Year Average Student/Unit			0.58

Estimated Student Enrollment

Fiscal Year	Dwelling Units	Students Per Unit	Student Enrollment
2003	3,330	0.58	1,922
2004	3,385	0.58	1,954
2005	3,441	0.58	1,986
2006	3,496	0.58	2,018
2007	3,552	0.58	2,050
2008	3,608	0.58	2,082
2009	3,663	0.58	2,114
2010	3,719	0.58	2,146
2011	3,774	0.58	2,179
2012	3,830	0.58	2,211