



2008-09 Enrollment Projections

TO: Mary C. Gormley, Superintendent of Schools, Milton, MA
FROM: Donald Kennedy, Ed.D., Demographic Specialist
DATE: December 1, 2008
RE: Enrollment Projections

We are pleased to send you the enclosed documents displaying the past, present, and projected enrollments for the Milton School District. We have used 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.

NESDEC's enrollment projection totals from fall of 2007 came within 2.3% of the actual enrollment total for fall, 2008. The largest discrepancy, by far was in Kindergarten (221 projected v. 300 actual) which experienced the highest ratio of in-migration in the past decade (see graph). Ratios in Kindergarten and Grade 1 have been adjusted to more accurately project in the future. Unlike most communities, Milton is experiencing a consistent number of births: about 310 per year in the past decade, and expecting about 308-310 over the next few years. Thus, assuming current in-migration continues, Milton is expected to grow by about 48 PK-12 students each year for a decade.

If your district has need for further assistance in the area of long range facilities planning, we would urge you to call so that we might discuss our planning services which include our Demographic and Long-Range Enrollment Projection Studies.

We have enclosed suggestions for interpreting the printout and a brief description of the modified cohort survival methodology used in preparing the projections. As always, we would be delighted to hear from you regarding

ways in which we might make the enrollment forecasts more useful to you. Please don't hesitate to call or email us at ep@nesdec.org. Best wishes for the school year.

Analyzing Your Enrollment

Historical Public Enrollments

1. After the "YEAR" column can be found the "BIRTHS" column. The number of births to residents for each of eleven years is displayed. Note any trends, e.g., have births been decreasing? increasing? leveling off? Kindergarten and Grade 1 enrollments are normally quite responsive to these fluctuations.
2. Look down the K and 1 columns and note the direction of the trend. This affords a comparison of these classes over a ten-year period. Add the K and Grade 1 enrollments of the first school year recorded, and compare them with the sum of the current K and Grade 1 enrollments.
3. Take the first K class and follow it diagonally to trace its movement to Grade 1, 2, etc. up to its current 10th grade status. This comparison (which can be accomplished for other classes also) gives some measure of the effects of migration in your school district. If a sixth grade class today is larger than it was as a K class six years ago, then in-migration has probably occurred; if it is smaller, then out-migration has probably occurred.
4. Compare each K class with the previous year's graduating class. Note which is larger and by what amount one surpasses the other. Larger graduating classes generally reflect declining enrollments; larger K classes generally indicate increasing enrollments.
5. In the "Grade Combinations" section, note the trends of elementary, middle school/junior high, and high school enrollments. A significant and consistent trend in these summaries usually results in the corresponding trend for projected enrollments. If enrollments are leveling off in the elementary grades after a period of decline, then the secondary enrollments might be expected to continue to decline for several years until the leveling off experience has had time to take hold at the secondary grades.

Enrollment Projections

1. Note the trends exhibited in the total K-12 (or 1-12) projection for the next five years as well as the projections for various grade combinations. The trends on this page should generally exhibit a continuation of the trends mentioned above for historical enrollments, although the rate of change may be quite different.
2. Look at the births in the most recent years and note whether the trend is up, down, or level.
3. Make similar comparisons as appropriate on this page as were suggested for the "Historical Public Enrollments" page.

PROJECTION METHODOLOGY

The cohort survival technique is the most frequently used method of preparing enrollment forecasts. NESDEC uses that technique, but modifies it in order to move away from forecasts which are wholly computer or formula driven. Such modification permits the incorporation of important, current town-specific information into the generation of the enrollment forecasts. Basically, 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 2007-08, increased to 104 students in Grade 2 in 2008-09, the percentage of survival would have been 104% or a ratio of 1.04. Such 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 for a pre-determined number of years.

The ratios used are the key factors in the reliability of the projections, given the validity of the data at the starting point. The strength of the ratios lies in the fact that each ratio encompasses collectively the variables that account for increases or decreases in the size of a grade enrollment as it moves on to the next grade. Each ratio represents the cumulative effect of the following factors:

1. Real estate turnover and new residential construction;
2. Migration, in or out, of the schools;
3. Drop-outs, transfers, etc.;
4. Births to residents;
5. Retention in the same grade.

GENERAL COMMENT

Projections can serve as useful guides to school administrators for educational planning. In this regard, the projections are generally most reliable when they are closest in time to the current year. Projections six to ten years out may serve as a guide to future enrollments, and are useful for facility planning purposes. However, they should be viewed as subject to change given the possibility for change in the underlying assumptions. Annual updates allow for the identification of any recent changes in historical trends.

In light of this, 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 Adobe Acrobat reader to convert the desired information to a “snapshot,” which can be inserted into PowerPoint slides, Word documents, etc. Because the snapshot tool creates a graphic, the image is not editable.

Steps for Using The Snapshot Tool in Adobe Acrobat Reader 8.0:

1. Click on Tools Menu;
2. Choose “Select & Zoom;”
3. Choose “Snapshot Tool;”
4. Click and drag around the text, chart, and/or graphics that you would like to capture: your selection will be copied to the clipboard automatically;
5. Click in the document where you would like the information to appear;*
6. Give Paste command.

If you have an earlier version of Adobe Acrobat and these instructions don't work for you, contact your tech support person, or NESDEC and we will try to assist you. Telephone (508)481-9444 or ep@nesdec.org. Ask for Peggy, Don, or Carol.

*You may paste your snapshot onto a PowerPoint slide, onto an Excel sheet, or even into a graphics program to save as a separate graphic file (in .jpg or other format), so that it is available for inserting into future documents.

Milton, MA Historical Enrollment

School District: Milton, MA

Date: 12/1/08

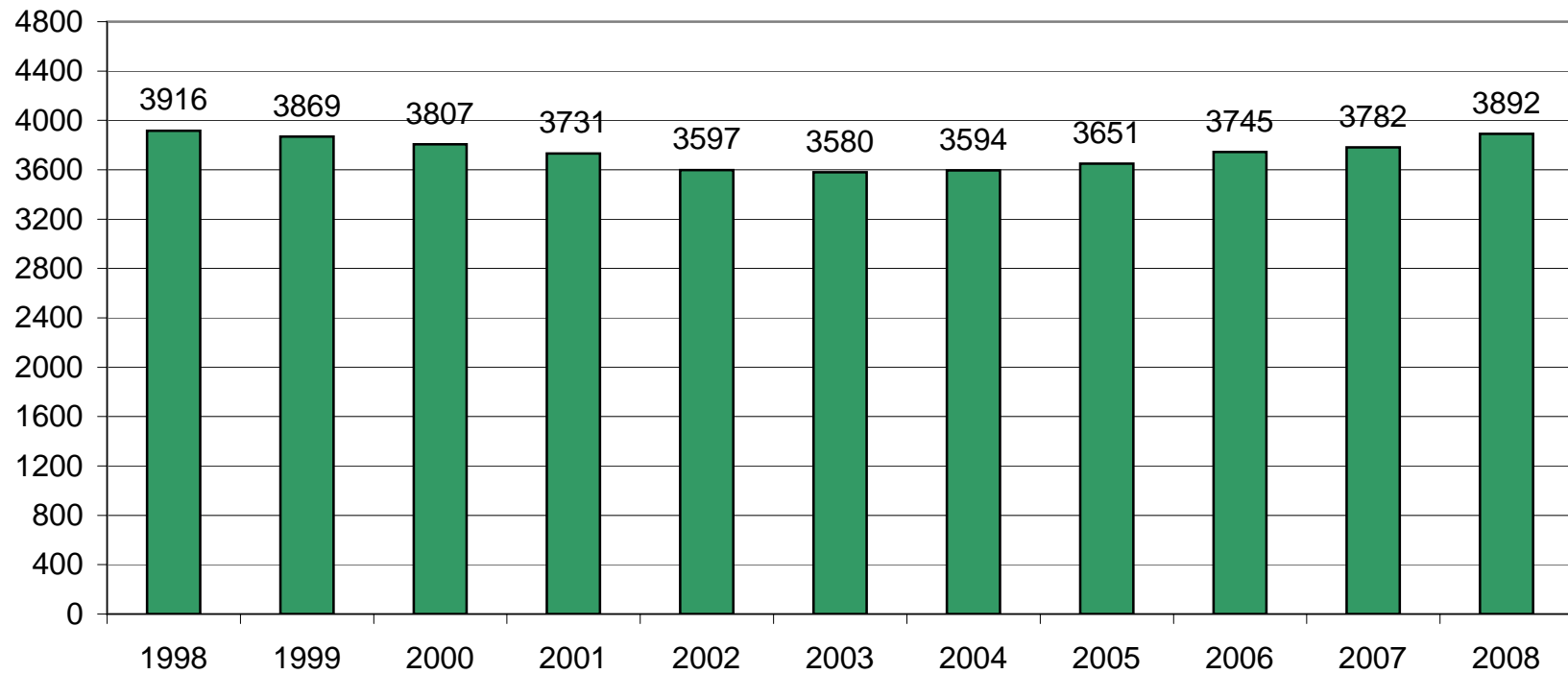
Historical Enrollment By Grade																			
Birth Year	Births	School Year	PK	K	1	2	3	4	5	6	7	8	9	10	11	12	UNGR	K-12	PK-12
1993	289	1998-99	45	245	362	326	351	316	373	322	331	311	263	220	216	229	6	3871	3916
1994	281	1999-00	78	254	297	351	321	349	304	332	309	332	250	256	234	197	5	3791	3869
1995	275	2000-01	70	250	281	298	353	315	341	298	317	308	255	250	259	212	0	3737	3807
1996	311	2001-02	90	258	265	278	304	342	309	318	276	310	244	252	240	245	0	3641	3731
1997	332	2002-03	85	209	286	268	277	307	343	291	309	274	238	235	244	231	0	3512	3597
1998	317	2003-04	86	235	238	291	279	277	302	329	295	303	233	226	236	242	8	3494	3580
1999	325	2004-05	104	220	275	257	294	279	287	300	306	293	277	245	233	219	5	3490	3594
2000	312	2005-06	112	242	258	272	259	301	288	292	284	307	273	264	255	235	9	3539	3651
2001	340	2006-07	115	247	312	279	280	273	310	298	290	289	296	261	252	243	0	3630	3745
2002	318	2007-08	139	249	300	324	292	290	279	296	293	278	246	288	259	249	0	3643	3782
2003	291	2008-09	141	300	288	305	330	326	276	284	281	290	262	260	294	255	0	3751	3892

Historical Enrollment in Grade Combinations									
Year	PK-5	K-5	K-6	K-8	5-8	6-8	7-8	7-12	9-12
1998-99	2018	1973	2295	2937	1337	964	642	1570	928
1999-00	1954	1876	2208	2849	1277	973	641	1578	937
2000-01	1908	1838	2136	2761	1264	923	625	1601	976
2001-02	1846	1756	2074	2660	1213	904	586	1567	981
2002-03	1775	1690	1981	2564	1217	874	583	1531	948
2003-04	1708	1622	1951	2549	1229	927	598	1535	937
2004-05	1716	1612	1912	2511	1186	899	599	1573	974
2005-06	1732	1620	1912	2503	1171	883	591	1618	1027
2006-07	1816	1701	1999	2578	1187	877	579	1631	1052
2007-08	1873	1734	2030	2601	1146	867	571	1613	1042
2008-09	1966	1825	2109	2680	1131	855	571	1642	1071

Historical Percentage Changes			
Year	Total	Diff.	%
1998-99	3871	0	0.0%
1999-00	3791	-80	-2.1%
2000-01	3737	-54	-1.4%
2001-02	3641	-96	-2.6%
2002-03	3512	-129	-3.5%
2003-04	3494	-18	-0.5%
2004-05	3490	-4	-0.1%
2005-06	3539	49	1.4%
2006-07	3630	91	2.6%
2007-08	3643	13	0.4%
2008-09	3751	108	3.0%
Change 1998-2008		-120	-3.1%

Milton, MA Historical Enrollment

PK-12, 1998-2008



Milton, MA Projected Enrollment

School District: Milton, MA

Date: 12/1/08

Enrollment Projections By Grade*

Year	Births		School Year	PK	K	1	2	3	4	5	6	7	8	9	10	11	12	UNGR	K-12	PK-12
2003	291		2008-09	141	300	288	305	330	326	276	284	281	290	262	260	294	255	0	3751	3892
2004	331		2009-10	142	281	360	300	314	353	328	277	275	278	268	261	258	288	0	3841	3983
2005	314		2010-11	143	267	337	374	309	336	355	330	269	272	257	267	259	253	0	3885	4028
2006	296		2011-12	144	252	320	350	385	331	338	357	320	266	252	256	265	254	0	3946	4090
2007	310	(est.)	2012-13	145	264	302	333	361	412	333	340	346	317	246	251	254	260	0	4019	4164
2008	308	(est.)	2013-14	146	262	317	314	343	386	414	335	330	343	293	245	249	249	0	4080	4226
2009	312	(est.)	2014-15	147	265	314	330	323	367	388	416	325	327	317	292	243	244	0	4151	4298
2010	308	(est.)	2015-16	148	262	318	327	340	346	369	390	404	322	302	315	290	238	0	4223	4371
2011	307	(est.)	2016-17	149	261	314	331	337	364	348	371	378	400	298	300	312	284	0	4298	4447
2012	309	(est.)	2017-18	150	263	313	327	341	361	366	350	360	374	370	297	298	306	0	4326	4476
2013	309	(est.)	2018-19	151	263	316	326	337	365	363	368	340	356	346	368	295	292	0	4335	4486

*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*

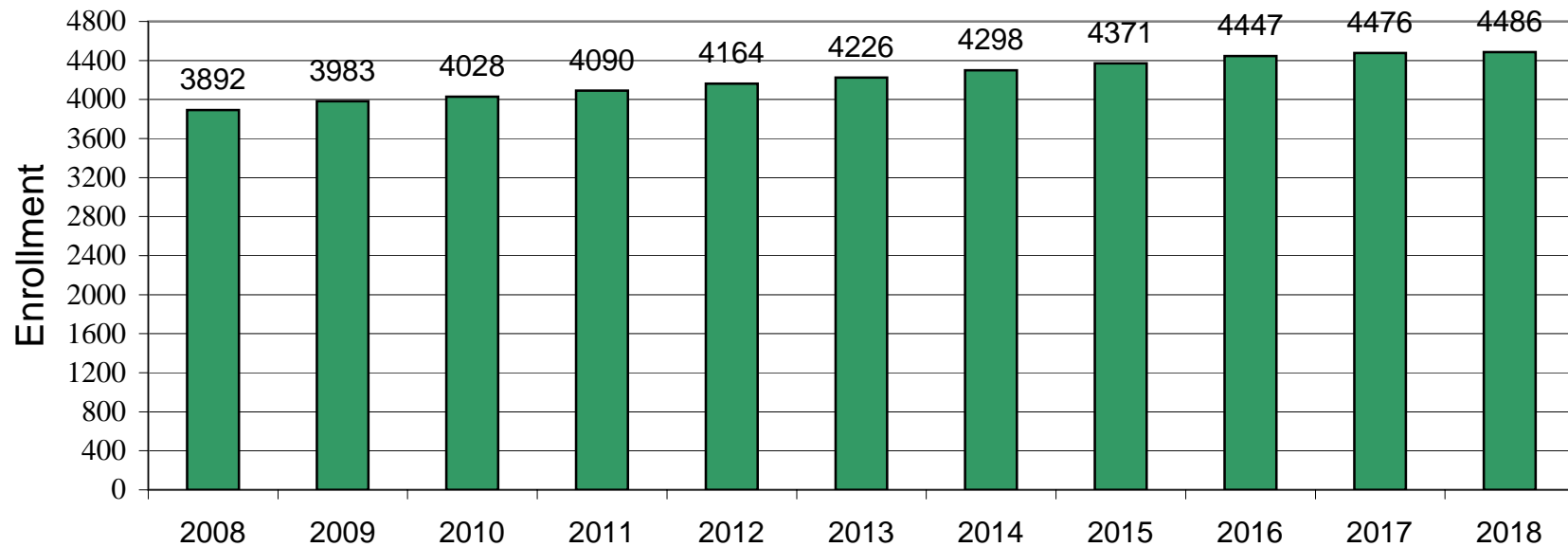
Year	PK-5	K-5	K-6	K-8	5-8	6-8	7-8	7-12	9-12
2008-09	1966	1825	2109	2680	1131	855	571	1642	1071
2009-10	2078	1936	2213	2766	1158	830	553	1628	1075
2010-11	2121	1978	2308	2849	1226	871	541	1577	1036
2011-12	2120	1976	2333	2919	1281	943	586	1613	1027
2012-13	2150	2005	2345	3008	1336	1003	663	1674	1011
2013-14	2182	2036	2371	3044	1422	1008	673	1709	1036
2014-15	2134	1987	2403	3055	1456	1068	652	1748	1096
2015-16	2110	1962	2352	3078	1485	1116	726	1871	1145
2016-17	2104	1955	2326	3104	1497	1149	778	1972	1194
2017-18	2121	1971	2321	3055	1450	1084	734	2005	1271
2018-19	2121	1970	2338	3034	1427	1064	696	1997	1301

Projected Percentage Changes

Years	Total	Diff.	%
2008-09	3751	0	0.0%
2009-10	3841	90	2.4%
2010-11	3885	44	1.1%
2011-12	3946	61	1.6%
2012-13	4019	73	1.8%
2013-14	4080	61	1.5%
2014-15	4151	71	1.7%
2015-16	4223	72	1.7%
2016-17	4298	75	1.8%
2017-18	4326	28	0.7%
2018-19	4335	9	0.2%
Total			
Change 2008-2018		584	15.6%

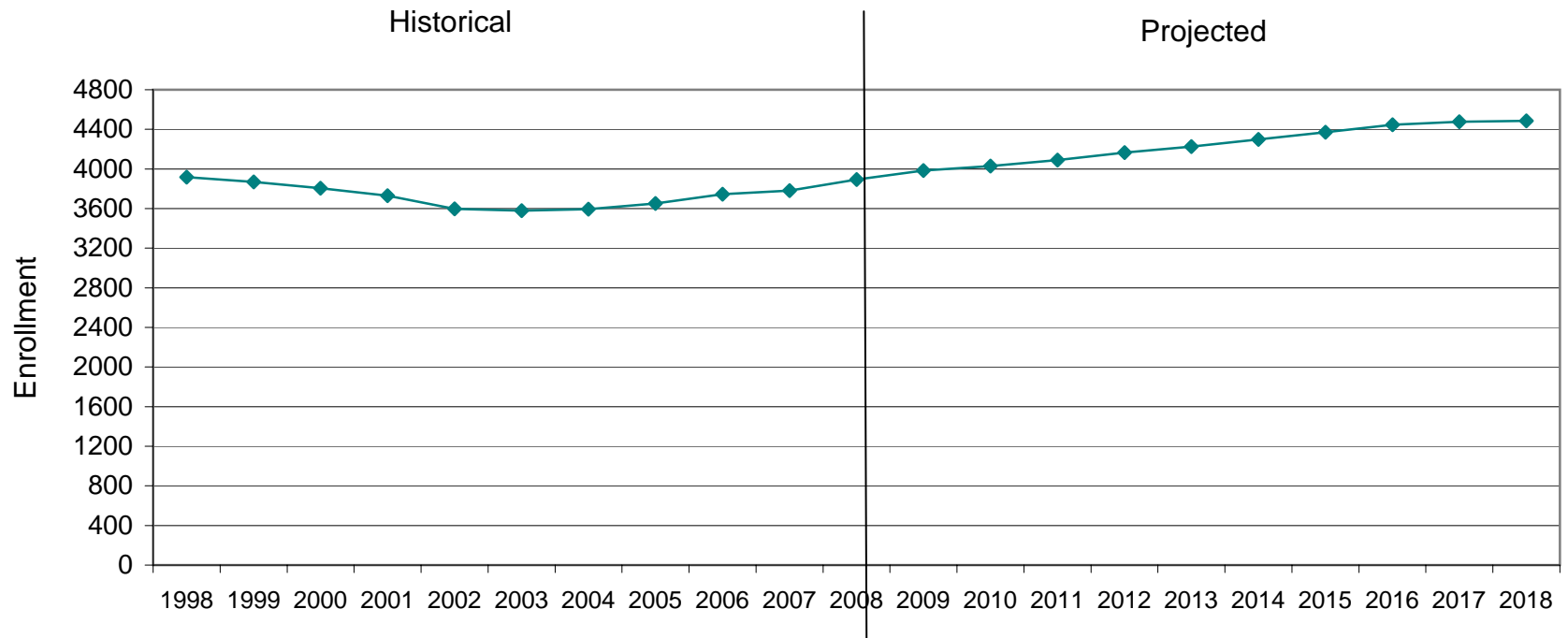
Milton, MA Projected Enrollment

PK-12 TO 2018 Based On Data Through School Year 2008-09

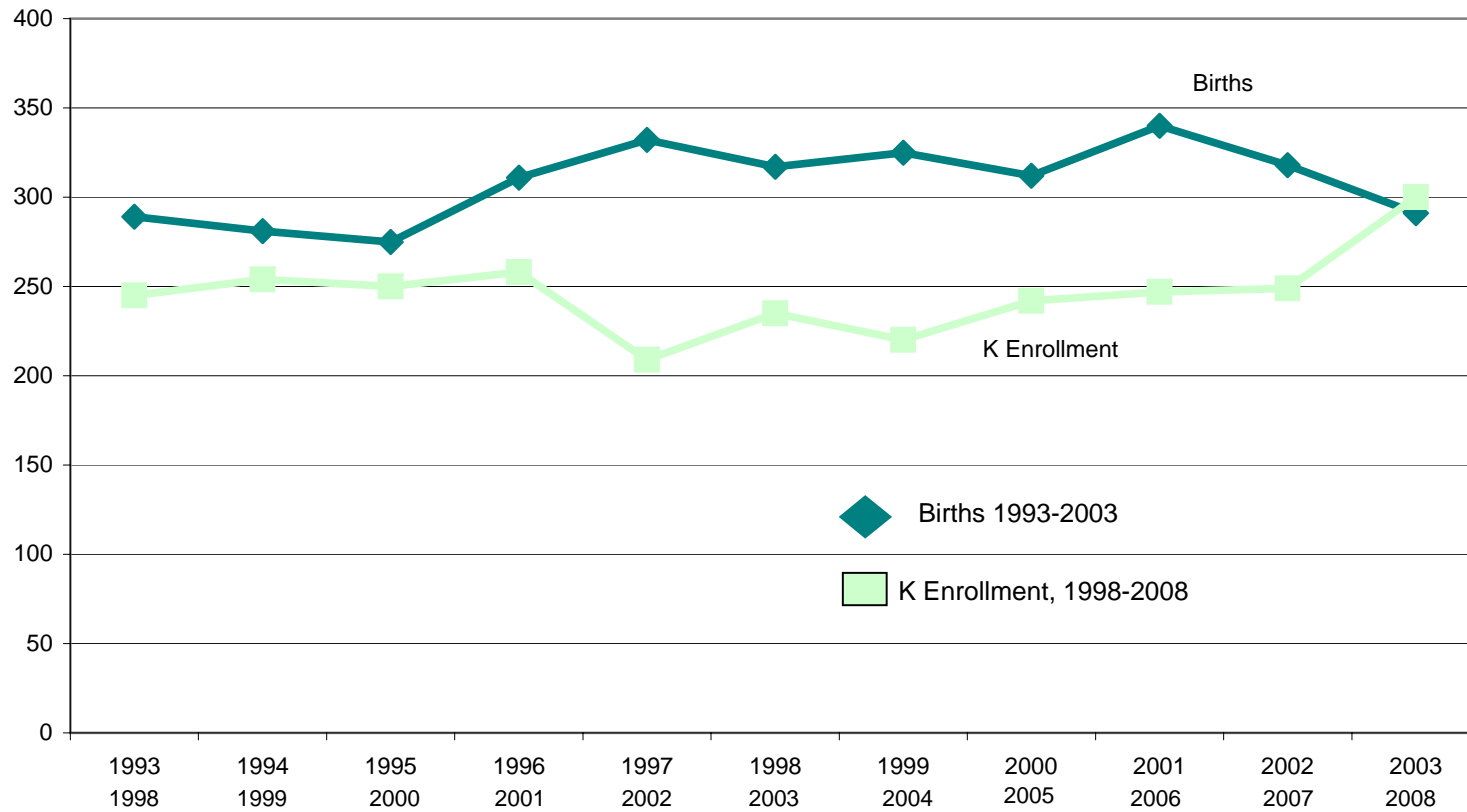


Milton, MA Historical & Projected Enrollment

PK-12, 1998 TO 2018



Milton, MA Birth-to-Kindergarten Relationship



Milton, MA Additional Data

Building Permits Issued		
Year	Single-Family	Multi-Units
1998	15	0
2004	14	165
2005	24	0
2006	4	0
2007	5	0
2008	4 to 10/31	0

Source: HUD

Enrollment History		
Year	Voc-Tech 9-12 Total	Non-Public K-12 Total
1998-99	n/a	n/a
2004-05	44	1197
2005-06	40	1140
2006-07	39	1127
2007-08	35	1136
2008-09	35	n/a

Residents in Non-Public Independent and Parochial Schools (Regular Education)																
Enrollments Oct. 1, 2007	K	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	Ung.	Grand Total
	94	80	74	65	53	66	64	89	82	118	113	125	113	1136	0	1136

K-12 Home-Schooled Students	
2008	8

K-12 Residents Enrolled in Charter or Magnet Schools	
2008	n/a

K-12 SpEd Outplaced Students	
2008	57

K-12 Choiced-In, Tuitioned-In, & Other Non-Residents	
2008	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.