

MADISON PUBLIC SCHOOLS

ENROLLMENT PROJECTIONS

UPDATED

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# **MADISON PUBLIC SCHOOLS ENROLLMENT PROJECTIONS UPDATE**

## **INTRODUCTION**

In 2014, a comprehensive ten year projection of student enrollments was developed for the Madison Public Schools. After looking at a variety of sources for data, and careful analysis of our findings, we summarized our findings as follows: "Our projections, based upon data from a variety of sources, are open to interpretation, as are all such projections. We cannot accurately predict and can only project the birth rate of residents, although births to Town residents can be expected to remain relatively constant unless there is a substantial influx of younger families. New development will continue to be constrained by limited space available for new housing. In-migration of students from outside the Town will tend to mitigate some of the enrollment decline we have seen in the past several years but this too will be limited by a high priced real estate market that might cause young families with school age children or young couples seeking to start a family to consider housing options in other more affordable communities. Our projections show that enrollment losses will continue but at a slowing rate as some limited new development and a renewed interest in senior housing hopefully opens up homes, presently occupied by seniors, for resale to younger families."

Two years later we have been commissioned to revisit and review our findings.

Student enrollment for the past two years shows that our projections for these years are extremely close to actual enrollments and fall well within our margin of error for the study.

## **DATA SOURCES**

Data was gathered from state, town and school officials that enabled us to draw significant conclusions relative to future school enrollments and future school space needs in Madison. The accuracy of these projections will be determined by comparing them with actual enrollments as the future evolves.

For the purpose of this report the following information was reviewed:

- 1) Enrollment Reports from school years 2005-06 through 2016-17, supplied by the Madison School Department and the Connecticut Department of Education.
- 2) Birth data: i.e. births to Madison residents supplied by the Madison Town Clerk and by the Connecticut Dept. of Public Health, Registry of Vital Statistics.
- 3) Information relative to new housing construction, proposed housing developments and sub-divisions were supplied by the Madison Town Planner and the Office of the Building Inspector.
- 4) Information relative to the Madison real estate market and relevant market data was gleaned from Zillow and from local real estate brokers.

## **GRADE GROUPINGS**

The Madison education system is divided into three grade groupings. This format was maintained for this analysis to afford us the opportunity to look at the possible impact of increased enrollments at different grade levels. These groupings are:

|                      |        |
|----------------------|--------|
| Elementary grades    | K - 4  |
| Middle School grades | 5 – 8  |
| High School grades   | 9 – 12 |

## **BIRTH DATA**

The Town Clerk's Office and the Connecticut Department of Public Health, Registry of Vital Statistics provided the birth data utilized in this analysis. It reflects births to residents of Madison whose children might be expected to attend the Madison Public Schools. **(Table I)** We have used the data provided by the state's Registry of Vital Statistics, which tends to be more complete in terms of all births to Madison residents no matter where the birth occurred but these records are complete only up to 2013. As a result we used birth data supplied by the Town Clerk's Office for the years 2014 - 2016. Births from 2017 through 2025 were estimated by using the average of each of the previous five years of birth data. (rolling 5 yr. average) This method tends to even out the natural peaks and valleys that occur in annual births over a number of years.

From January 2005 through December 31, 2013 there were a total of 904 (as per Registry of Vital Statistics) children born to residents of Madison, an average of 100 births per year. For the years 2014 through 2016 birth numbers from the Town clerk show total births of 276 or an annual average of 92 births to Madison residents. The average number of births varied from a high of 130 reported births in 2005 to a low of 81 reported births in 2013, which was the lowest number of reported births in the period studied. We have projected an average annual birth rate of 90 births for the period from 2017 through 2025 which reflects a relatively stable births rate.

## **HOUSING PERMITS & NEW DEVELOPMENT**

Information provided by Town planner, David Anderson, relative to new home construction in Madison over the last three years, shows very limited new construction. **(Table II)** Because there are few large tracts of land remaining in Madison for new housing development, it is unlikely Madison will see large blocks of new home construction in the future with the exception of some condos or apartments which will yield few children of school age. Homes will be built on existing lots with no large multi-unit developments and teardowns and rebuilds of older existing homes will increase.

**Table I**

**Births to Madison Residents**

| <b>Year</b> |  | <b>Births</b> |  | <b>Diff.</b> | <b>% of Diff.</b> |
|-------------|--|---------------|--|--------------|-------------------|
| <b>2025</b> |  | 90            |  | <b>0</b>     | 0.0%              |
| <b>2024</b> |  | 90            |  | <b>0</b>     | 0.0%              |
| <b>2023</b> |  | 90            |  | <b>1</b>     | 1.1%              |
| <b>2022</b> |  | 89            |  | <b>-1</b>    | -1.1%             |
| <b>2021</b> |  | 90            |  | <b>0</b>     | 0.0%              |
| <b>2020</b> |  | 90            |  | <b>-1</b>    | -1.1%             |
| <b>2019</b> |  | 91            |  | <b>2</b>     | 2.2%              |
| <b>2018</b> |  | 89            |  | <b>1</b>     | 1.1%              |
| <b>2017</b> |  | 88            |  | <b>-3</b>    | -3.3%             |
| <b>2016</b> |  | 91            |  | <b>-1</b>    | -1.1%             |
| <b>2015</b> |  | 92            |  | <b>-1</b>    | -1.1%             |
| <b>2014</b> |  | 93            |  | <b>12</b>    | 14.8%             |
| <b>2013</b> |  | 81            |  | <b>-1</b>    | -1.2%             |
| <b>2012</b> |  | 82            |  | <b>-29</b>   | -26.1%            |
| <b>2011</b> |  | 111           |  | <b>25</b>    | 29.1%             |
| <b>2010</b> |  | 86            |  | <b>1</b>     | 1.2%              |
| <b>2009</b> |  | 85            |  | <b>-19</b>   | -18.3%            |
| <b>2008</b> |  | 104           |  | <b>7</b>     | 7.2%              |
| <b>2007</b> |  | 97            |  | <b>-31</b>   | -24.2%            |
| <b>2006</b> |  | 128           |  | <b>-2</b>    | -1.5%             |
| <b>2005</b> |  | 130           |  |              |                   |

**Notes:** 1) Birth data from 2005-2013 from CT Dept. of Public Health Bureau of Vital Statistics  
2) Birth data from 2014 - 2016 from Madison Town Clerk  
3) Birth data from 2017-2025 estimated based on a five year rolling average

**Table II**  
**Madison Construction - New & Proposed**

| <b>Year</b>    | <b>Single Family homes<br/>New</b> | <b>Single Family homes<br/>Teardown/rebuild</b> | <b>Condos</b> |
|----------------|------------------------------------|---|---------------|
|                |                                    |   |               |
|                |                                    |   |               |
| <b>2014</b>    | 11                                 | 4   | 4             |
|                |                                    |   |               |
| <b>2015</b>    | 9                                  | 8   | 4             |
|                |                                    |   |               |
| <b>2016</b>    | 10                                 | 10  | 3             |
|                |                                    |   |               |
|                |                                    |   |               |
| <b>Planned</b> | 8                                  |   | 14            |

- Note**
- 1) Planned projects have been approved and construction is scheduled to begin this year
  - 2) There are some condo/apartment projects in the planning pipeline. Unlikely to be approved until late 2017-18

As a result, we anticipate the rate of new development in Madison will remain low creating no significant upward pressure on school enrollments.

### **POPULATION DATA**

2010 census figures show Madison's population at 18,269, an increase of 411 residents or 2.3% over the 2000 census population (**Table III**). Data from the Connecticut Department of Economic and Community Development show Madison's population growth slowing over the next several years; 18,239 in 2011, 18,291 in 2012 and 18,297 in 2013. In 2014 the town's population began to decline. Madison's population was reported at 18,284 in 2014 and 18,259 in 2015. The projected population for Madison in 2020 is 18,036, a decline of approximately 1.5% from the 2013 population. This a reflection of very limited growth and an aging population where the median age has risen to 47.1 yrs. considerably higher than the state average. Data from the 2010 census showed 6,971 occupied dwellings in Madison. Only 2, 496 of these households or 35.8% had individuals under 18 years of age but there were 2,303 households or 33.0% with residents 65 years and older. Also there were 4, 418 children between the ages of 5 years and 19 years living in Madison households which translates into 0.63 children per household.

A 2016 Town Profile compiled by the Connecticut State Data Center and the Connecticut Economic Research Center (CERCE) shows a total of 54 % of residents over the age of 45 and 21.0% of the population over 65. The US Census Bureau's American Fact Finder shows the population of residents ages 5-19 at 25.0%. Projections for 2020 and 2025 show a further decline in the total population going forward while the percentage of residents over 65 becomes a larger percentage of the general population and the percentage of residents in the 5-19 age bracket declines further. This represents an aging community where younger families with school age children are a minority.

**Table III**

**MADISON POPULATION DATA**

| <b>Year</b> |  | <b>Actual</b> |           | <b># Change</b> |  | <b>% Change</b> |
|-------------|--|---------------|-----------|-----------------|--|-----------------|
|             |  |               |           |                 |  |                 |
| <b>2000</b> |  | 17,858        |           | -----           |  | -----           |
|             |  |               |           |                 |  |                 |
| <b>2010</b> |  | 18,269        |           | 411             |  | 2.3%            |
|             |  |               |           |                 |  |                 |
| <b>2011</b> |  | 18239         |           | -30             |  | -0.2%           |
|             |  |               |           |                 |  |                 |
| <b>2012</b> |  | 18,291        |           | 52              |  | 0.3%            |
|             |  |               |           |                 |  |                 |
| <b>2013</b> |  | 18,297        |           | 6               |  | 0.03%           |
|             |  |               |           |                 |  |                 |
| <b>2014</b> |  | 18,284        |           | -13             |  | -0.07%          |
|             |  |               |           |                 |  |                 |
| <b>2015</b> |  | 18,259        |           | -25             |  | -0.14%          |
|             |  |               |           |                 |  |                 |
| <b>2020</b> |  | 18036         | Projected | 223             |  | 1.22%           |
|             |  |               |           |                 |  |                 |

**NOTE:**

- 1) Population figures 1990 -2015 from U.S. Census Bureau
- 2) Projected population for 2020 from Connecticut Dept.of Economic & Community Development.



It can be assumed that within the range of years covered by this study, a portion of senior residents will alter their living arrangements and will sell or move out of their current homes. These homes will normally be older, smaller and somewhat less expensive than newer homes and well suited to younger families with school age children. We anticipate these homes will be re-occupied with children of school age. But conversely they might also become the teardowns of the future. While we cannot quantify this population we project in-migration of new families with school age children and limited new development will somewhat offset students matriculating from the school system thereby slowing, but not reversing, the overall decline in school populations.

### **MADISON REAL ESTATE MARKET**

The real estate market remains relatively slow during the winter months with real estate agents looking forward to an uptick as we move toward spring. The Zillow web site shows that as of February 1, 2017 there were approximately 194 homes and 19 condos on the market in various price ranges. The median home value in Madison was \$403,200 with home prices having risen 2.4% over the past year.

The median list price per square foot in Madison is \$204 which is 37.0% higher than the New Haven Metro average of \$149 per square foot. The median price of homes in Madison currently listed for sale is \$497,000. These prices could be challenging for younger families with school age children, particularly those seeking starter homes to establish residence and raise families in the community.

In addition the Madison tax rate also imposes a burden that might be a deterrent for some families. Although mortgage rates are relatively low, tightened banking restrictions on credit and increasing down payment requirements may be forcing younger families to seek homes in other more affordable locations.

## **ANALYSIS OF DATA**

Formulating long-range enrollment projections requires the development of a set of assumptions around which we build a statistical framework. We have developed a list of assumptions on birth rates, housing development, population, real estate and other factors we believe are essential to an accurate analysis.

## **MADISON ASSUMPTIONS**

- 1) Birth rates have been projected based upon historic data provided by the Connecticut Dept. of Vital Statistics and the Town Clerk's Office through 2016. From 2017 forward, we have used an average birth rate (rolling average) based on the average of each of the previous five years.
- 2) Actual student enrollments from 2005-06 through 2016-17 have been provided by the Madison Schools and have been used as the basis for the cohort survival method of school population projection.
- 3) Information from the Madison Planning Director provided data on new and proposed construction in Madison from 2014 -2016 that indicates little residential growth.
- 4) We have reviewed the impact of Madison students attending private, parochial and other educational institutions.

## **METHODOLOGY**

The most commonly used method for projecting student enrollments is a mathematical algorithm known as "cohort survival". This method of analysis takes the birth rate of a community, factors in the historic number of children that enter the public school system and tracks the number of students in the cohort as they progress through the various grades from kindergarten through grade 12. The percent of students in the cohort who historically "survive" from one grade to the next provides the basis of projecting future enrollments. Cohort survival ratios factor in historic enrollments assuming that other factors, i.e. births, in-migration, new housing starts, will remain the same.

The cohort survival algorithm creates a projection based only upon the historic past. It does not take into consideration outside elements and socio-economic factors that could affect student enrollments. To get a complete picture of what a community and school district will look like in the future additional data is factored into the projection and the foundation of data on which the projection is based is broadened.

Actual enrollment numbers show a decline in the student population from 3,834 students in the 2005-06 school year to 2886 students in the 2016-17 school year, a loss of 948 students or almost 25% of the total student body. Our projections show a continuing decline in enrollments to 2324 in 2027-28, a further drop of 454 students or 15.3%. **(Table IV)** The continuing decline in Madison's student population reflects a relatively stagnant birth rate due to an aging population, limited new development with few areas available for major housing development, a real estate market not priced attractively for younger families with school age children and a history of more students leaving the school system through graduation than entering in kindergarten or first grade.

When the number of births to Town residents and the number of children registering for Kindergarten five years later is compared **(Table V)**, there is a consistent pattern of more children enrolling in Madison's kindergarten than were born to residents of the Town. In 2010-11, based on actual enrollment figures, 5 more children or 3.8% enrolled in Madison's kindergarten than were born to residents. In the ensuing years that differential has grown to the point where the school department is showing substantially more enrollees in kindergarten than were born to town residents.. We project the number of children enrolling in Madison's kindergarten will remain in the +50% range. However, the number of children entering the Madison Schools in kindergarten and first grade are not enough to offset the number of students graduating from the system resulting in a continuing decline in overall enrollments.

**Table IV**  
**Madison Public Schools Enrollment Projection**

Updated

**Actual**

| School Yr. | Kind | Gr. 1 | Gr. 2 | Gr. 3 | Gr. 4 | Gr. 5 | Gr. 6 | Gr. 7 | Gr. 8 | Gr. 9 | Gr. 10 | Gr. 11 | Gr. 12 | Total |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|
| 2005-06    | 253  | 258   | 278   | 295   | 289   | 317   | 324   | 317   | 312   | 310   | 333    | 279    | 269    | 3834  |
| 2006-07    | 208  | 273   | 271   | 290   | 300   | 304   | 333   | 328   | 321   | 310   | 303    | 326    | 271    | 3838  |
| 2007-08    | 206  | 237   | 276   | 273   | 295   | 293   | 307   | 322   | 323   | 324   | 300    | 294    | 319    | 3769  |
| 2008-09    | 200  | 246   | 239   | 285   | 277   | 297   | 296   | 313   | 326   | 340   | 310    | 289    | 291    | 3709  |
| 2009-10    | 167  | 230   | 256   | 234   | 289   | 285   | 302   | 296   | 312   | 329   | 330    | 317    | 288    | 3635  |
| 2010-11    | 135  | 188   | 245   | 255   | 246   | 288   | 300   | 310   | 306   | 321   | 326    | 337    | 306    | 3563  |
| 2011-12    | 143  | 163   | 192   | 256   | 255   | 254   | 287   | 292   | 313   | 311   | 302    | 318    | 329    | 3415  |
| 2012-13    | 147  | 176   | 167   | 203   | 259   | 269   | 264   | 294   | 297   | 314   | 311    | 312    | 319    | 3332  |
| 2013-14    | 154  | 162   | 178   | 182   | 208   | 267   | 279   | 268   | 292   | 308   | 311    | 320    | 313    | 3242  |
| 2014-15    | 134  | 172   | 168   | 190   | 189   | 213   | 275   | 286   | 267   | 309   | 300    | 304    | 316    | 3123  |
| 2015-16    | 139  | 150   | 182   | 175   | 191   | 203   | 213   | 276   | 280   | 271   | 294    | 301    | 298    | 2973  |
| 2016-17    | 153  | 148   | 160   | 186   | 184   | 206   | 208   | 214   | 273   | 288   | 273    | 294    | 299    | 2886  |

**Projected**

| School Yr. | Kind | Gr. 1 | Gr. 2 | Gr. 3 | Gr. 4 | Gr. 5 | Gr. 6 | Gr. 7 | Gr. 8 | Gr. 9 | Gr. 10 | Gr. 11 | Gr. 12 | Total |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|
| 2017-18    | 142  | 171   | 156   | 167   | 192   | 195   | 210   | 210   | 211   | 282   | 281    | 271    | 290    | 2778  |
| 2018-19    | 144  | 165   | 177   | 163   | 172   | 203   | 199   | 212   | 207   | 218   | 276    | 279    | 267    | 2682  |
| 2019-20    | 142  | 170   | 168   | 185   | 168   | 182   | 207   | 201   | 209   | 214   | 213    | 274    | 275    | 2608  |
| 2020-21    | 140  | 156   | 179   | 175   | 191   | 178   | 185   | 209   | 199   | 216   | 209    | 212    | 270    | 2519  |
| 2021-22    | 145  | 154   | 164   | 180   | 180   | 202   | 181   | 187   | 206   | 206   | 211    | 208    | 209    | 2433  |
| 2022-23    | 142  | 160   | 162   | 171   | 182   | 199   | 206   | 183   | 185   | 213   | 201    | 210    | 205    | 2419  |
| 2023-24    | 140  | 155   | 168   | 169   | 176   | 185   | 203   | 208   | 181   | 191   | 208    | 200    | 207    | 2391  |
| 2024-25    | 143  | 150   | 166   | 173   | 174   | 186   | 188   | 205   | 206   | 187   | 187    | 207    | 197    | 2369  |
| 2025-26    | 141  | 153   | 158   | 172   | 183   | 184   | 189   | 191   | 201   | 213   | 183    | 186    | 204    | 2358  |
| 2026-27    | 142  | 151   | 161   | 165   | 178   | 186   | 187   | 191   | 189   | 207   | 208    | 182    | 184    | 2331  |
| 2027-28    | 143  | 155   | 159   | 168   | 170   | 186   | 188   | 189   | 189   | 187   | 203    | 207    | 180    | 2324  |

Table IV cont'd.

| Actual     |   |           |           |       |        |        |
|------------|---|-----------|-----------|-------|--------|--------|
| School Yr. | Gr K - 4                                | Gr. 5 - 8 | Gr. 9 -12 | Total | # Diff | %Diff  |
| 2005-06    | 1373                                    | 1270      | 1191      | 3834  |        |        |
| 2006-07    | 1342                                    | 1286      | 1210      | 3838  | 4      | 0.1%   |
| 2007-08    | 1287                                    | 1245      | 1237      | 3769  | -69    | -1.8%  |
| 2008-09    | 1247                                    | 1232      | 1230      | 3709  | -60    | -1.6%  |
| 2009-10    | 1176                                    | 1195      | 1264      | 3635  | -74    | -2.0%  |
| 2010-11    | 1069                                    | 1204      | 1290      | 3563  | -72    | -2.0%  |
| 2011-12    | 1009                                    | 1146      | 1260      | 3415  | -148   | -4.2%  |
| 2012-13    | 952                                     | 1124      | 1256      | 3332  | -83    | -2.4%  |
| 2013-14    | 884                                     | 1106      | 1252      | 3242  | -90    | -2.7%  |
| 2014-15    | 853                                     | 1041      | 1229      | 3123  | -119   | -3.7%  |
| 2015-16    | 837                                     | 972       | 1164      | 2973  | -150   | -4.8%  |
| 2016-17    | 831                                     | 901       | 1154      | 2886  | -87    | -2.9%  |
|            | Actual Students Lost 2005-06/2016-17    |           |           |       | -948   | -24.7% |
| Projected  |   |           |           |       |        |        |
| School Yr. | Gr K - 4                                | Gr. 5 - 8 | Gr. 9 -12 | Total | # Diff | %Diff  |
| 2017-18    | 828                                     | 826       | 1124      | 2778  | -108   | -3.7%  |
| 2018-19    | 821                                     | 821       | 1040      | 2682  | -96    | -3.5%  |
| 2019-20    | 833                                     | 799       | 976       | 2608  | -74    | -2.8%  |
| 2020-21    | 841                                     | 771       | 907       | 2519  | -89    | -3.4%  |
| 2021-22    | 823                                     | 776       | 834       | 2433  | -86    | -3.4%  |
| 2022-23    | 817                                     | 773       | 829       | 2419  | -14    | -0.6%  |
| 2023-24    | 808                                     | 777       | 806       | 2391  | -28    | -1.2%  |
| 2024-25    | 806                                     | 785       | 778       | 2369  | -22    | -0.9%  |
| 2025-26    | 807                                     | 765       | 786       | 2358  | -11    | -0.5%  |
| 2026-27    | 797                                     | 753       | 781       | 2331  | -27    | -1.1%  |
| 2027-28    | 795                                     | 752       | 777       | 2324  | -7     | -0.3%  |
|            | Projected Students Lost 2017-18/2027-28 |           |           |       | -454   | -15.3% |

**Table V**

**Updated Births to Madison Residents vs. Kindergarten Enrollments**

| <b>Birth Year</b> | <b>Births To<br/>Madison<br/>Residents</b> | <b>Kinder. Entry Year<br/>(5 yrs. after birth)</b> | <b>No. Kind.<br/>Students<br/>Enrolled</b> |           | <b>No. Kind. Students<br/>Enrolled Over<br/>Births</b> | <b>% Kind. Students<br/>Enrolled over Births</b> |
|-------------------|--|--|--|-----------|--|--|
|                   |  |  |  |           |  |  |
| <b>2024</b>       | 90   | 2029-30  | 141  | Projected | 51   | 56.7%  |
| <b>2023</b>       | 90   | 2028-29  | 141  | Projected | 51   | 56.7%  |
| <b>2022</b>       | 89   | 2027-28  | 143  | Projected | 54   | 60.7%  |
| <b>2021</b>       | 90   | 2026-27  | 142  | Projected | 52   | 57.8%  |
| <b>2020</b>       | 90   | 2025-26  | 141  | Projected | 51   | 56.7%  |
| <b>2019</b>       | 91   | 2024-25  | 143  | Projected | 52   | 57.1%  |
| <b>2018</b>       | 89   | 2023-24  | 145  | Projected | 56   | 62.9%  |
| <b>2017</b>       | 88   | 2022-23  | 144  | Projected | 56   | 63.6%  |
| <b>2016</b>       | 91   | 2021-22  | 146  | Projected | 55   | 60.4%  |
| <b>2015</b>       | 92   | 2020-21  | 144  | Projected | 52   | 56.5%  |
| <b>2014</b>       | 93   | 2019-20  | 140  | Projected | 47   | 50.5%  |
| <b>2013</b>       | 81   | 2018-19  | 131  | Projected | 50   | 61.7%  |
| <b>2012</b>       | 82   | 2017-18  | 134  | Projected | 52   | 63.4%  |
| <b>2011</b>       | 111  | 2016-17  | 153  | Actual    | 42   | 37.8%  |
| <b>2010</b>       | 86   | 2015-16  | 139  | Actual    | 53   | 61.6%  |
| <b>2009</b>       | 85   | 2014-15  | 134  | Actual    | 49   | 57.6%  |
| <b>2008</b>       | 104  | 2013-14  | 154  | Actual    | 50   | 48.1%  |
| <b>2007</b>       | 97   | 2012-13  | 147  | Actual    | 50   | 51.5%  |
| <b>2006</b>       | 128  | 2011-12  | 143  | Actual    | 15   | 11.7%  |
| <b>2005</b>       | 130  | 2010-11  | 135  | Actual    | 5  | 3.8%   |

**Notes:**

- 1) Birth data from 2005-2013 from CT Dept. of Public Health Bureau of Vital Statistics
- 2) Birth data from 2014 - 2016 from Madison Town Clerk
- 3) Birth data from 2017-2025 estimated based on a five year rolling average
- 4) Actual kindergarten enrollment 2010-11 to 2016-17 from Madison Public Schools
- 5) Projected kindergarten enrollment from 2017-18 to 2029-30 from enrollment projections

Between 2017-18 and 2027-28 enrollments in the various grade configurations are projected to shrink at each grade level. Middle school and high school enrollments will continue to contract as smaller elementary enrollments work their way through the system. **Chart 1** shows the enrollment progression at each grade level from 2017-18 through 2027-28.

#### **VOCATIONAL, PAROCHIAL & PRIVATE SCHOOL ENROLLMENTS**

We reviewed parochial, private and other public school (technical, regional, magnet, vocational, SPED, and other) enrollments in relation to total school enrollments. **(Table VI)** Reviewing this data from 2006-07 to the present we sought to establish a trend in terms of students attending schools other than the Madison Public Schools. During this period the percentage of students attending Madison Public Schools averaged over 94.8% of total school children (not including those years for which complete data was not available). Our conclusion is that there is no significant loss of Madison students to other educational institutions nor do we anticipate any in future years.

The high quality of the Madison Public Schools encourages the large majority of Madison parents to enroll their children in the public school system. We anticipate enrollments in private, parochial and other schools will remain relatively stable for the foreseeable future with the percentage of students attending Madison Schools staying in the mid 90% bracket.

We have recently seen the closure of some parochial schools as churches seek to consolidate their educational facilities and reduce the drain on finances. There is no indication of that happening in the immediate future but there remains the possibility of some parochial facilities, (such as Shoreline Christian) closing which would have no more than minimal impact on Madison's schools.

Table VI

Updated

## Other Schools Enrolling Madison Resident Students

| School Year | Parochial Schools | Private Schools  | Regional,<br>Magnet,Vocational,<br>Technical, SPED,<br>other | Enrolled<br>Madison Public<br>Schools | Total<br>Madison<br>Students | % of Students Attending<br>MPS |
|-------------|-------------------|------------------|--|---------------------------------------|------------------------------|--------------------------------|
| 2016-17     | No data supplied  | No data supplied | 21   | 2886                                  | 2907                         | Incomplete Data                |
| 2015-16     | 59                | 43               | 21   | 2973                                  | 3096                         | 96.0%                          |
| 2014-15     | 58                | 56               | 22   | 3123                                  | 3259                         | 95.8%                          |
| 2013-14     | 74                | 67               | 22   | 3242                                  | 3405                         | 95.2%                          |
| 2012-13     | 97                | No data supplied | 17   | 3332                                  | 3446                         | Incomplete Data                |
| 2011-12     | No data supplied  | No data supplied | 21   | 3415                                  | 3436                         | Incomplete Data                |
| 2010-11     | 107               | 90               | 10   | 3563                                  | 3770                         | 94.5%                          |
| 2009-10     | 102               | 94               | 11   | 3635                                  | 3842                         | 94.6%                          |
| 2008-09     | 111               | 102              | 24   | 3709                                  | 3946                         | 94.0%                          |
| 2007-08     | 123               | 100              | 24   | 3769                                  | 4016                         | 93.8%                          |
| 2006-07     | 115               | 89               | 33   | 3838                                  | 4075                         | 94.2%                          |

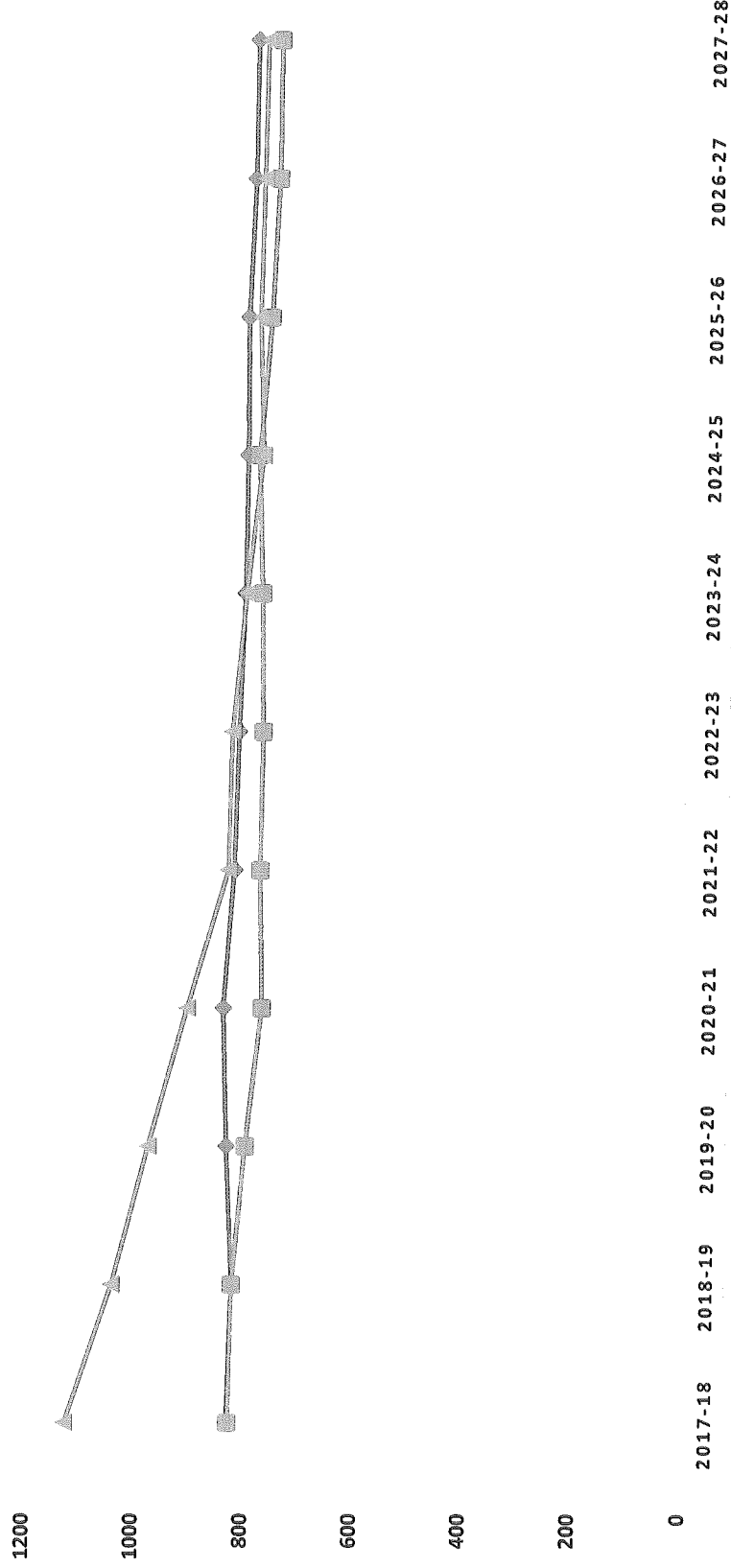
- Notes:**
- 1) Data supplied by the Connecticut Department of Education and the Madison Public Schools
  - 2) PK enrollments not included in the data
  - 3) 2013-14 Shoreline Christian School closed



CHART 1

# ENROLLMENTS BY GRADE GROUPING

GRADES K-4 GRADES 5-8 GRADES 9-12



## SUMMARY

Madison, with a strong and highly rated educational program, is a very attractive community for parents or prospective parents. Madison also provides a high standard of living which its residents are loathe to abandon. However, the limited ability to expand its housing and an aging population with a stagnant birth rate are leading to falling enrollment in the schools.

This projection is intended to put into perspective the space needs of the Madison Public Schools based upon enrollments, birth rates, in/out migration, new development and other relevant demographic data. In a projection of this type there are always unforeseen factors that cannot be anticipated. We have utilized the most recent information available. However, data, from which assumptions were derived and projections developed, may change. If the data on which we based our projections changes then the projections must also change. It is therefore recommended that future development in Madison, both social and economic, be closely monitored for significant shifts.

This document and the enrollments projected for specific years should be considered a guideline rather than a firm forecast and reviews of the enrollment projections should be done on a regular basis.

Despite the decline in the number of students in the Madison Schools, educators must be concerned with the condition of aging facilities and existing space; whether such space meets state standards and how space requirements will impact the quality of education and the ability of the schools to support a diversified and comprehensive educational program. The School Department is acting wisely as it examines its options to accommodate its school population.