

Tomah Area School District

Enrollment Projection
2010/11

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Tomah Area School District

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INFORMATION MANAGEMENT SYSTEMS

Enrollment Projection Interpretation Guide

Information Management Systems has gone to great lengths to make our enrollment projection report as easy to understand as possible. However, being a primarily statistical report, it does require a certain amount of analysis. This guide is designed to assist you in that analysis. The entire enrollment projection report is explained page by page to help you understand the meaning and significance of each number.

We use three variations of the Cohort Survival Method to project enrollments. This method analyzes the survival ratios for your students and then projects those ratios into the future. The survival ratio compares how many students are in a particular grade this year against how many students were in the preceding grade the previous year. For example, if there are 100 first graders in 2000-01 and 113 second graders in 2001-02 then the survival ratio for that 2nd grade class is 113%. The manner in which each of the projection methods use the survival ratios is described below.

All of the students listed in grades K through 12 are projected in this fashion. Any grades listed in the report other than K-12, such as PreK, Special Ed, or Ungraded, are projected by looking at the survival trends within that grade, rather than the trend from the preceding grade. The unevenness of grade progression for these students prohibits the standard technique.

Page 1: County Births

This table shows the number of resident births for your district's county for the past eleven years. These numbers, obtained from your state's health department, are used to project what proportion of children born in your county become students at your schools. Because the department of health cannot compile birth statistics for a particular year until at least the middle of the next year, the current year's birth rate is an estimate. This number is based upon past births and national and local trends in the birth rate.

Table 1: Actual Enrollments

This may be the most important table in the projection package, as it shows the past enrollment upon which the rest of your report is based. The table has your district's enrollment for the past six years listed by grade. The number under the enrollment figure is the survival ratio for that grade in that year. Numbers above 100 (in blue) indicate an increase in enrollment from the previous grade/year, while numbers below 100 (in red) indicate a loss of enrollment.

When checking these numbers, be alert for extremely large variations in the ratios because they serve as indicators for trends in your district's enrollment, or errors in the enrollment numbers. The summary table at the bottom of this page, and most of the other pages, simply aggregates the table above it into groups corresponding with your district's grade/building configuration.

Projection Method 1

Projection method 1 uses the survival ratios for the past five years in a particular grade. It arrives at a mean value to use in projecting how many students in the previous grade the prior year will become students in that grade that year. This method is the most accurate for school districts that have not experienced major impacts on their district in recent years. The closing or opening of a private school, the addition of a preschool program, or re-zoning of your district are a few of the occurrences that may have affected your past enrollment, and in turn, your future enrollment projections. To find out which of the three projection methods might be most accurate for your schools, please refer to the accuracy table on the last page of this report.

Table 2: Projected Enrollment by Method 1

This table predicts what your enrollment will be up to five years into the future, grade by grade. The blue figures under the enrollment numbers are the multipliers that are used to represent the survival ratio that particular grade has shown in the past. Numbers far from 100 indicate that either a loss or a gain of enrollment has occurred, and care should be taken to determine what the cause of this fluctuation might be.

Table 3: Comparison by Method 1

This table summarizes the past two pages by showing past, present, and projected future enrollment. The small numbers indicate the percentage difference between that year's enrollment and the current year's, blue for enrollment above the current year's, and red when below. The key numbers on this table are the percent changes for the grade configuration summaries for the future. These indicate the extent, as a percentage of this year's enrollment, to which your district will either lose (red) or gain (blue) enrollment.

Table 4: 10 Year Projections by Method 1

This table shows what enrollment will look like ten years into the future. You will notice that, starting six years into the future, some grades are omitted from the report. This is because birth rates, which are the base from which the projections work, are very difficult to project with any accuracy. Without birth data, Kindergarten enrollment becomes impossible to project six years from now, and each higher grade falls out the following year.

Although this gives only a partial glimpse of your enrollment ten years from now, we feel it is better to exclude some information than to possibly be misleading with inaccurate data.

Enrollment Graphs as projected by Method 1

The first set of charts, one for each grade grouping, depicts the information from the past three tables in graphic form. Each graph deals with one of your district's building levels. The last chart is usually reserved for total district enrollment. The upper chart on each page tracks your enrollment level, while the lower tracks the percentage difference between your current enrollment and the enrollment in that year.

Projection Method 2

The second method used to project the enrollment of your school district uses the survival ratio for only the current year to project enrollment. This method may be most accurate for your school if it has recently experienced a change in its enrollment trends. The closing of a private school in your district last year will affect your enrollment this year, and in years to come. Under these and similar circumstances, method 2 will have the best predictive power. Please refer to Table 17 on the last page of the report to determine which method was best able to predict this year's enrollment.

Table 5: Projected Enrollment by Method 2

This table predicts what your enrollment will be up to five years into the future, grade by grade. The blue figures under the enrollment numbers are the multipliers that are used to represent the survival ratio that particular grade has shown in the past. Numbers far from 100 indicate that either a loss or a gain has occurred, and care should be taken to determine what the cause of this fluctuation might be.

Table 6: Comparison by Method 2

This table summarizes the previous page with your historical information by showing past, present, and projected future enrollment. The small numbers indicate the percentage difference between that year's enrollment and the current year's. The key numbers on this table are the percent changes for the summary groups for the future. These indicate the extent, as a percentage of this year's enrollment, to which your district will either lose (red) or gain (blue) enrollment.

Table 7: 10 Year Projections by Method 2

This table shows what enrollment will look like ten years into the future. You will notice that, starting six years into the future, some grades are omitted from the report. This is because birth rates, which are the base from which the projections work, are very difficult to project with any accuracy. Without birth data, Kindergarten enrollment becomes impossible to project six years from now, and each higher grade falls out the following year.

Although this gives only a partial glimpse of your enrollment ten years from now, we feel it is better to exclude some information than to possibly be misleading with inaccurate data.

Enrollment Graphs as projected by Method 2

The second set of graphs depicts the information from the past three tables in graphic form. Each graph deals with one of your district's building levels. The last chart is usually reserved for total district enrollment. The upper chart on each page tracks your enrollment level, while the lower tracks the percentage difference between your current enrollment and the enrollment in that year.

Projection method 3

This method uses the average arrived at by method 1 and combines that with the one year ratio used by method 2. The resulting ratio emphasizes current trends in your enrollment while tempering that with the trends of the past. This method will best suit districts that have had fluctuations in their enrollment due to temporary occurrences, but do not expect those occurrences to overwhelmingly impact future enrollment. As with the other methods, Table 17 shows which method has the best predictive power for your particular situation.

Table 8: Projected Enrollment by Method 3

This table predicts what your enrollment will be up to five years into the future, grade by grade. The blue figures under the enrollment numbers are the multipliers that are used to represent the survival ratio that particular grade has shown in the past. Numbers far from 100 indicate that either a loss or a gain has occurred, and care should be taken to determine what the cause of this fluctuation might be.

Table 9: Comparison by Method 3

This table summarizes the previous page with your historical information by showing past, present, and projected future enrollment. The small numbers indicate the percentage difference between that year's enrollment and the current year's. The key numbers on this table are the percent changes for the summary groups for the future. These indicate the extent, as a percentage of this year's enrollment, to which your district will either lose (red numbers) or gain (blue numbers) enrollment.

Table 10: 10 Year Projections by Method 3

This table shows what enrollment will look like ten years into the future. You will notice that, starting six years into the future, some grades are omitted from the report. This is because birth rates, which are the base from which the projections work, are very difficult to project with any accuracy. Without birth data, Kindergarten enrollment becomes impossible to project six years from now, and each higher grade falls out the next year.

Although this gives only a partial glimpse of your enrollment ten years from now, we feel it is better to exclude some information than to possibly be misleading with inaccurate data.

Enrollment graphs as projected by Method 3

The third method graphs depict the information from the past three tables in graphic form. Each graph deals with one of your district's building levels. The last chart is usually reserved for total district enrollment. The upper chart on each page tracks your enrollment level, while the lower tracks the percentage difference between your current enrollment and the enrollment in that year.

Cross – Method Charts

These charts (one for each grade grouping) look at your projected enrollment across the three projection methods. Each chart begins with your current enrollment with a separate line for each method tracing your projection out five years into the future. When all three lines stay close together, your projected enrollment does not significantly vary across the different projection methods.

However, when the three lines diverge, the three methods are projecting relatively different enrollments. Care should be taken in choosing the correct method on which to rely.

Tables 11-16: Teacher Projections

These six tables use projection Method 1, as the most conservative of the three methods, to forecast teacher needs for the next ten years. The tables are arranged according to selected Teacher: Pupil ratios (1:22 thru 1:32). As with the ten year enrollment projections, lower grades fall out of the system in later years due to projection limitations.

Table 17: Method Accuracy

This table is used to show which of the three projections methods has the best predictive power for your district. This is done by creating a projection of THIS YEAR'S enrollment using past data and then comparing it to this year's actual enrollment. The method showing the smallest total (K-12) error should have the best ability to predict what your future enrollment will be.

As in other tables, projections below the current year's level are shown in red, and those above are shown in blue.

Births for Monroe County

<u>YEAR</u>	<u>BIRTHS</u>
2000	602
2001	593
2002	559
2003	624
2004	587
2005	615
2006	633
2007	666
2008	674
2009	685
2010	707

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Table 1 - Actual Enrollments

GRADE	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
K	208	229 <i>38.62</i>	178 <i>31.84</i>	195 <i>31.25</i>	235 <i>40.03</i>	199 <i>32.36</i>
1	214	211 <i>101.44</i>	231 <i>100.87</i>	181 <i>101.69</i>	202 <i>103.59</i>	243 <i>103.40</i>
2	189	217 <i>101.40</i>	218 <i>103.32</i>	233 <i>100.87</i>	189 <i>104.42</i>	206 <i>101.98</i>
3	195	192 <i>101.59</i>	222 <i>102.30</i>	222 <i>101.83</i>	228 <i>97.85</i>	198 <i>104.76</i>
4	220	194 <i>99.49</i>	197 <i>102.60</i>	233 <i>104.95</i>	226 <i>101.80</i>	237 <i>103.95</i>
5	214	220 <i>100.00</i>	202 <i>104.12</i>	193 <i>97.97</i>	226 <i>97.00</i>	233 <i>103.10</i>
6	214	225 <i>105.14</i>	243 <i>110.45</i>	217 <i>107.43</i>	191 <i>98.96</i>	228 <i>100.88</i>
7	229	211 <i>98.60</i>	220 <i>97.78</i>	248 <i>102.06</i>	216 <i>99.54</i>	202 <i>105.76</i>
8	248	222 <i>96.94</i>	223 <i>105.69</i>	222 <i>100.91</i>	247 <i>99.60</i>	220 <i>101.85</i>
9	248	288 <i>116.13</i>	266 <i>119.82</i>	242 <i>108.52</i>	246 <i>110.81</i>	263 <i>106.48</i>
10	288	240 <i>96.77</i>	285 <i>98.96</i>	272 <i>102.26</i>	238 <i>98.35</i>	246 <i>100.00</i>
11	275	280 <i>97.22</i>	237 <i>98.75</i>	265 <i>92.98</i>	258 <i>94.85</i>	233 <i>97.90</i>
12	249	295 <i>107.27</i>	288 <i>102.86</i>	230 <i>97.05</i>	274 <i>103.40</i>	285 <i>110.47</i>

K-5	1,240	1,263	1,248	1,257	1,306	1,316
6-8	691	658	686	687	654	650
9-12	1,060	1,103	1,076	1,009	1,016	1,027
K-12	2,991	3,024	3,010	2,953	2,976	2,993

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Table 2 - Enrollment Projected Five Years
Method 1

GRADE	2011-12	2012-13	2013-14	2014-15	2015-16
K	220 <i>34.82</i>	232 <i>34.82</i>	235 <i>34.82</i>	239 <i>34.82</i>	246 <i>34.82</i>
1	203 <i>102.20</i>	225 <i>102.20</i>	237 <i>102.20</i>	240 <i>102.20</i>	244 <i>102.20</i>
2	249 <i>102.40</i>	208 <i>102.40</i>	230 <i>102.40</i>	243 <i>102.40</i>	246 <i>102.40</i>
3	209 <i>101.67</i>	253 <i>101.67</i>	211 <i>101.67</i>	234 <i>101.67</i>	247 <i>101.67</i>
4	203 <i>102.56</i>	214 <i>102.56</i>	259 <i>102.56</i>	216 <i>102.56</i>	240 <i>102.56</i>
5	238 <i>100.44</i>	204 <i>100.44</i>	215 <i>100.44</i>	260 <i>100.44</i>	217 <i>100.44</i>
6	244 <i>104.57</i>	249 <i>104.57</i>	213 <i>104.57</i>	225 <i>104.57</i>	272 <i>104.57</i>
7	230 <i>100.75</i>	246 <i>100.75</i>	251 <i>100.75</i>	215 <i>100.75</i>	227 <i>100.75</i>
8	204 <i>101.00</i>	232 <i>101.00</i>	248 <i>101.00</i>	254 <i>101.00</i>	217 <i>101.00</i>
9	247 <i>112.35</i>	229 <i>112.35</i>	261 <i>112.35</i>	279 <i>112.35</i>	285 <i>112.35</i>
10	261 <i>99.27</i>	245 <i>99.27</i>	227 <i>99.27</i>	259 <i>99.27</i>	277 <i>99.27</i>
11	237 <i>96.34</i>	251 <i>96.34</i>	236 <i>96.34</i>	219 <i>96.34</i>	250 <i>96.34</i>
12	243 <i>104.21</i>	247 <i>104.21</i>	262 <i>104.21</i>	246 <i>104.21</i>	228 <i>104.21</i>

K-5	1,322	1,336	1,387	1,432	1,440
6-8	678	727	712	694	716
9-12	988	972	986	1,003	1,040
K-12	2,988	3,035	3,085	3,129	3,196

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Table 3 - Comparison of Past and Projected Enrollments Method 1

GRADE	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
K	208 +4.52%	229 +15.08%	178 -10.55%	195 -2.01%	235 +18.09%	199 +0.00%	220 +10.55%	232 +16.58%	235 +18.09%	239 +20.10%	246 +23.62%
1	214 -11.93%	211 -13.17%	231 -4.94%	181 -25.51%	202 -16.87%	243 +0.00%	203 -16.46%	225 -7.41%	237 -2.47%	240 -1.23%	244 +0.41%
2	189 -8.25%	217 +5.34%	218 +5.83%	233 +13.11%	189 -8.25%	206 +0.00%	249 +20.87%	208 +0.97%	230 +11.65%	243 +17.96%	246 +19.42%
3	195 -1.52%	192 -3.03%	222 +12.12%	222 +12.12%	228 +15.15%	198 +0.00%	209 +5.56%	253 +27.78%	211 +6.57%	234 +18.18%	247 +24.75%
4	220 -7.17%	194 -18.14%	197 -16.88%	233 -1.69%	226 -4.64%	237 +0.00%	203 -14.35%	214 -9.70%	259 +9.28%	216 -8.86%	240 +1.27%
5	214 -8.15%	220 -5.58%	202 -13.30%	193 -17.17%	226 -3.00%	233 +0.00%	238 +2.15%	204 -12.45%	215 -7.73%	260 +11.59%	217 -6.87%
6	214 -6.14%	225 -1.32%	243 +6.58%	217 -4.82%	191 -16.23%	228 +0.00%	244 +7.02%	249 +9.21%	213 -6.58%	225 -1.32%	272 +19.30%
7	229 +13.37%	211 +4.46%	220 +8.91%	248 +22.77%	216 +6.93%	202 +0.00%	230 +13.86%	246 +21.78%	251 +24.26%	215 +6.44%	227 +12.38%
8	248 +12.73%	222 +0.91%	223 +1.36%	222 +0.91%	247 +12.27%	220 +0.00%	204 -7.27%	232 +5.45%	248 +12.73%	254 +15.45%	217 -1.36%
9	248 -5.70%	288 +9.51%	266 +1.14%	242 -7.98%	246 -6.46%	263 +0.00%	247 -6.08%	229 -12.93%	261 -0.76%	279 +6.08%	285 +8.37%
10	288 +17.07%	240 -2.44%	285 +15.85%	272 +10.57%	238 -3.25%	246 +0.00%	261 +6.10%	245 -0.41%	227 -7.72%	259 +5.28%	277 +12.60%
11	275 +18.03%	280 +20.17%	237 +1.72%	265 +13.73%	258 +10.73%	233 +0.00%	237 +1.72%	251 +7.73%	236 +1.29%	219 -6.01%	250 +7.30%
12	249 -12.63%	295 +3.51%	288 +1.05%	230 -19.30%	274 -3.86%	285 +0.00%	243 -14.74%	247 -13.33%	262 -8.07%	246 -13.68%	228 -20.00%

K-5	1,240 -5.78%	1,263 -4.03%	1,248 -5.17%	1,257 -4.48%	1,306 -0.76%	1,316 +0.00%	1,322 +0.46%	1,336 +1.52%	1,387 +5.40%	1,432 +8.81%	1,440 +9.42%
6-8	691 +6.31%	658 +1.23%	686 +5.54%	687 +5.69%	654 +0.62%	650 +0.00%	678 +4.31%	727 +11.85%	712 +9.54%	694 +6.77%	716 +10.15%
9-12	1,060 +3.21%	1,103 +7.40%	1,076 +4.77%	1,009 -1.75%	1,016 -1.07%	1,027 +0.00%	988 -3.80%	972 -5.36%	986 -3.99%	1,003 -2.34%	1,040 +1.27%
K-12	2,991 -0.07%	3,024 +1.04%	3,010 +0.57%	2,953 -1.34%	2,976 -0.57%	2,993 +0.00%	2,988 -0.17%	3,035 +1.40%	3,085 +3.07%	3,129 +4.54%	3,196 +6.78%

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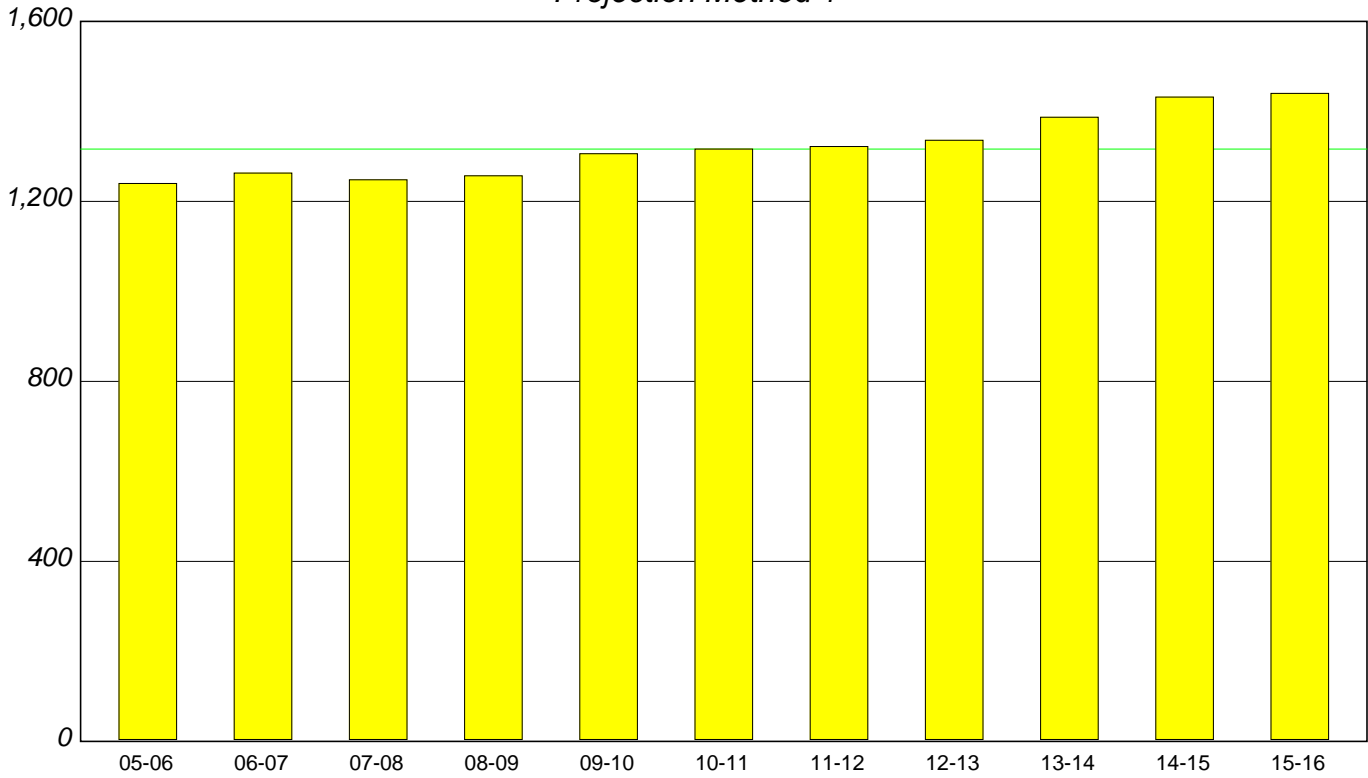
Table 4 - Enrollment Projected Ten Years
Method 1

GRADE	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
K	220	232	235	239	246	0	0	0	0	0
1	203	225	237	240	244	251	0	0	0	0
2	249	208	230	243	246	250	257	0	0	0
3	209	253	211	234	247	250	254	261	0	0
4	203	214	259	216	240	253	256	261	268	0
5	238	204	215	260	217	241	254	257	262	269
6	244	249	213	225	272	227	252	266	269	274
7	230	246	251	215	227	274	229	254	268	271
8	204	232	248	254	217	229	277	231	257	271
9	247	229	261	279	285	244	257	311	260	289
10	261	245	227	259	277	283	242	255	309	258
11	237	251	236	219	250	267	273	233	246	298
12	243	247	262	246	228	261	278	284	243	256

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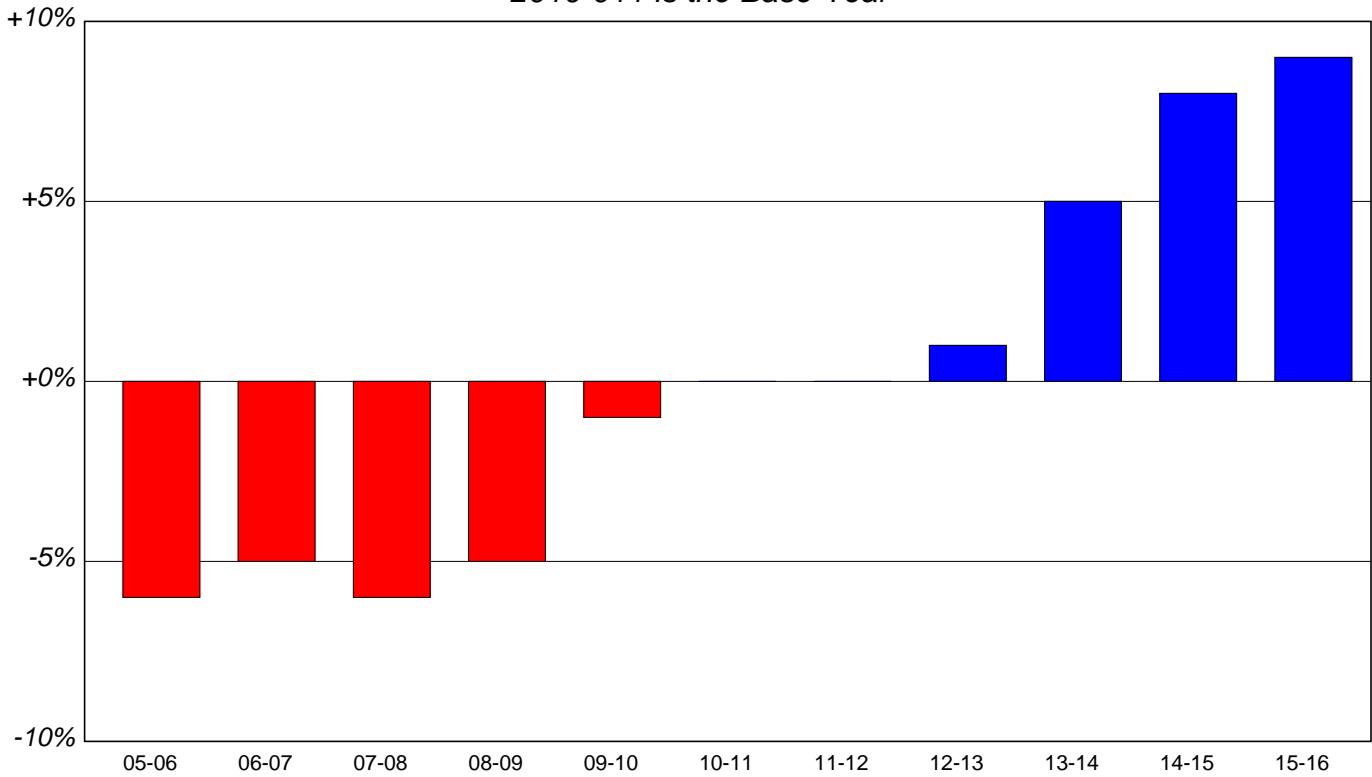
Graph 1-A: K-5 Enrollment 2005-2016

Projection Method 1



Graph 1-B: % Change in K-5 Enrollment

2010-011 is the Base Year



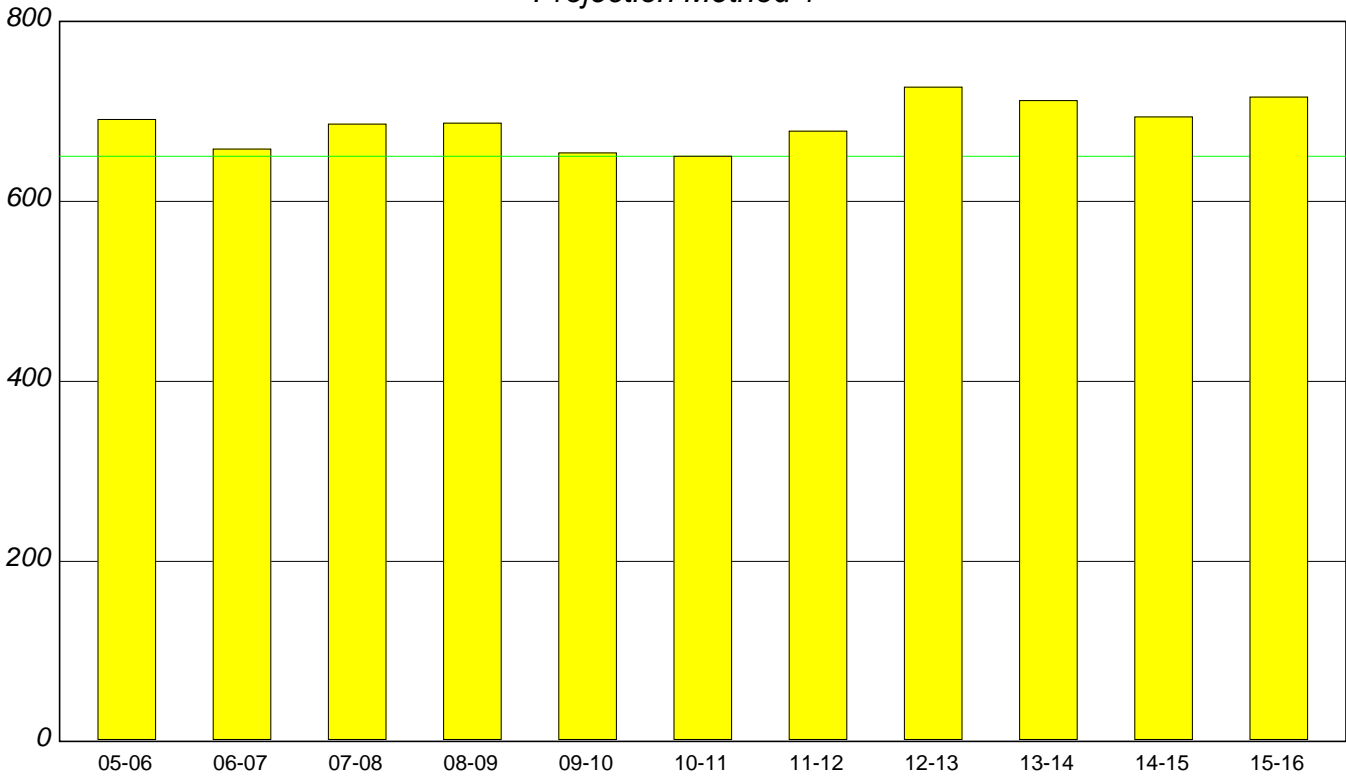
NOTE:

See Table 3 for specific enrollment numbers

Tomah Area School District

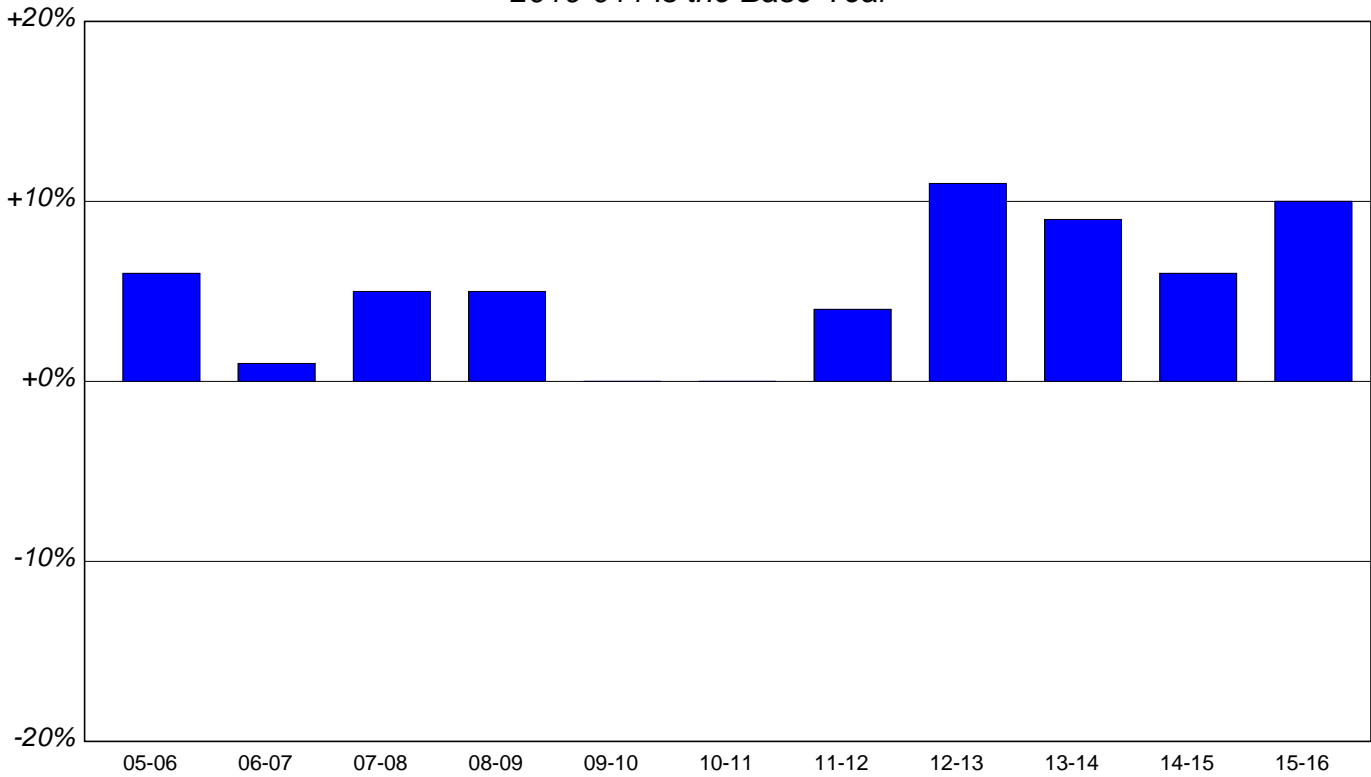
Graph 2-A: 6-8 Enrollment 2005-2016

Projection Method 1



Graph 2-B: % Change in 6-8 Enrollment

2010-011 is the Base Year



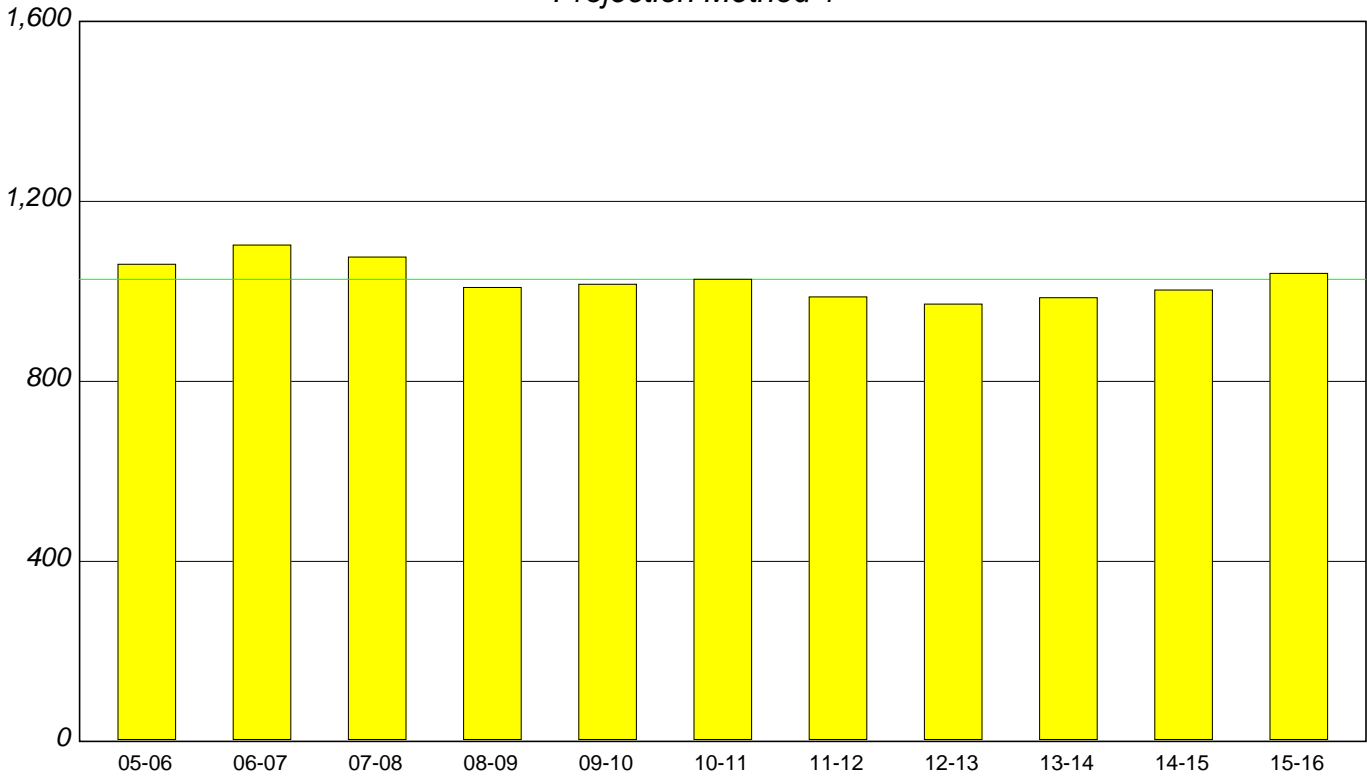
NOTE:

See Table 3 for specific enrollment numbers

Tomah Area School District

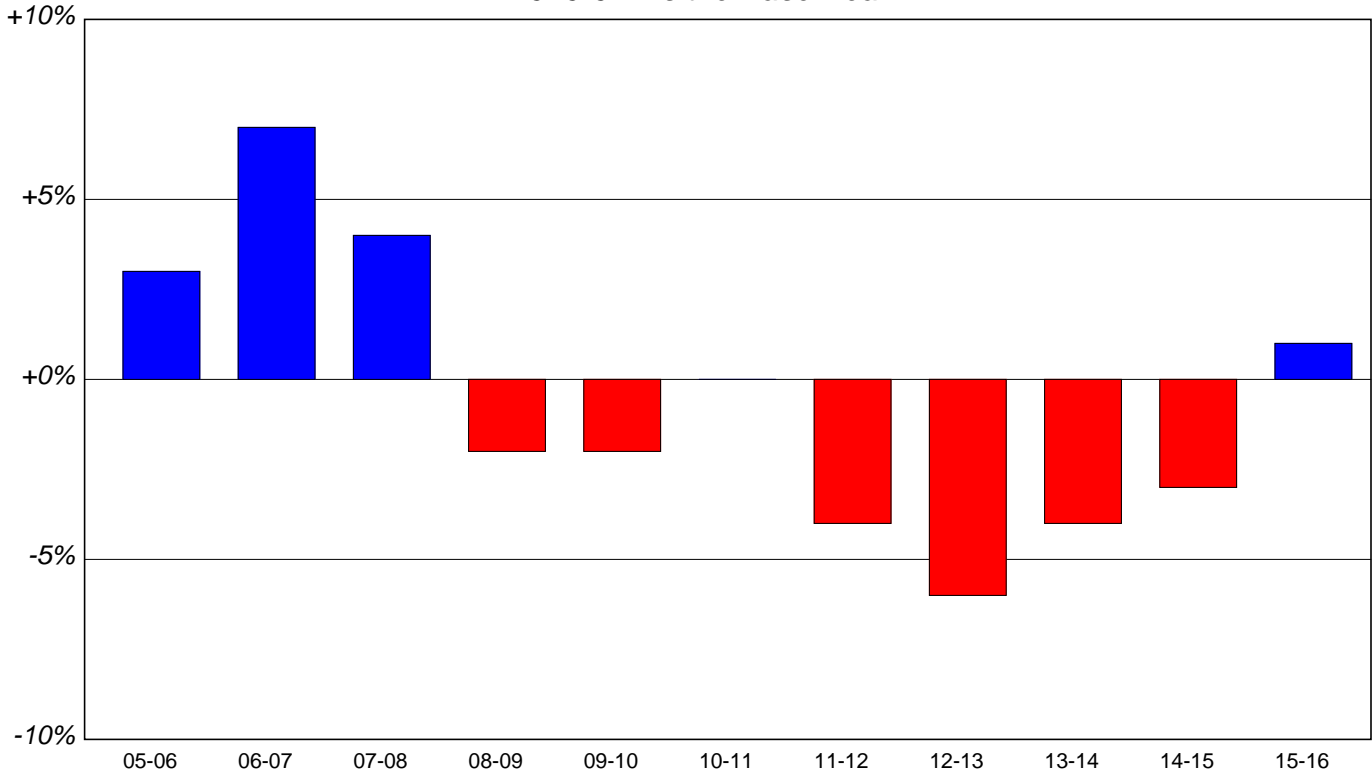
Graph 3-A: 9-12 Enrollment 2005-2016

Projection Method 1



Graph 3-B: % Change in 9-12 Enrollment

2010-011 is the Base Year



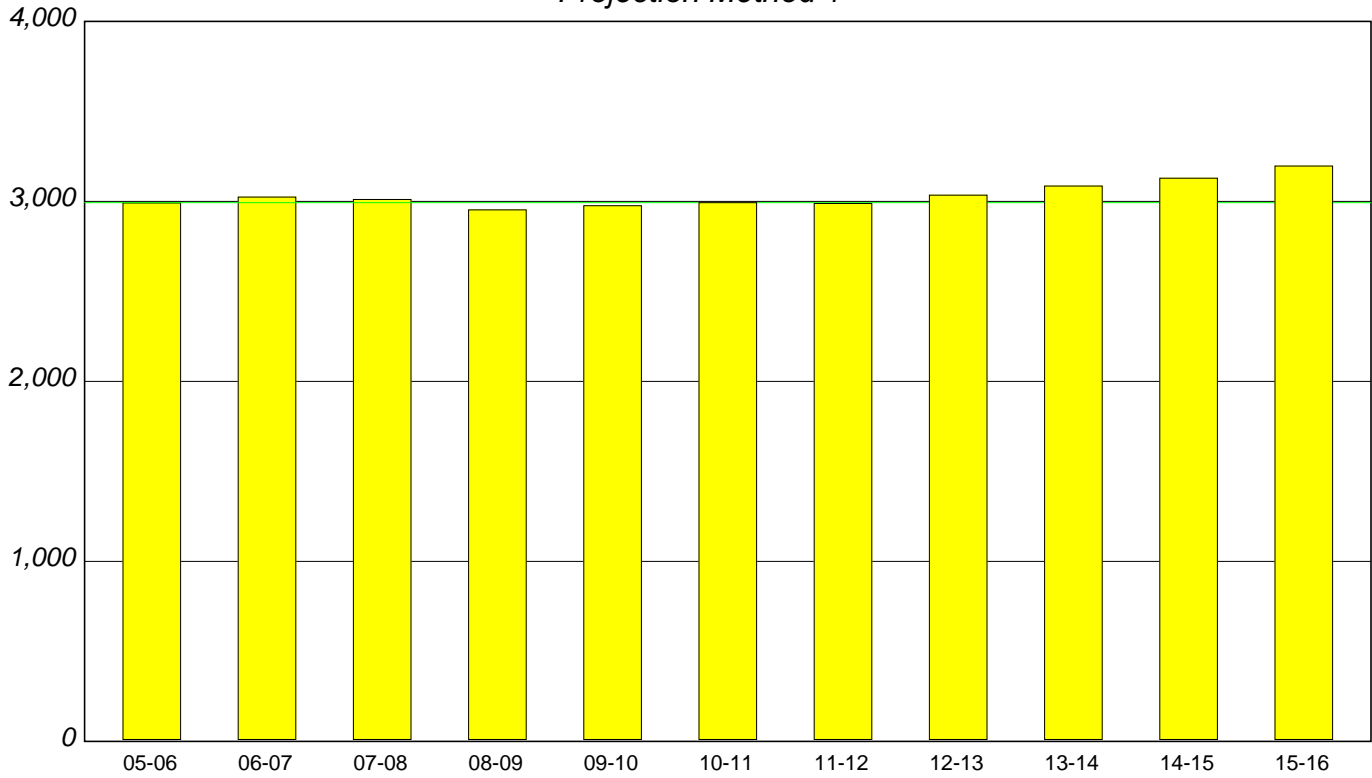
NOTE:

See Table 3 for specific enrollment numbers

Tomah Area School District

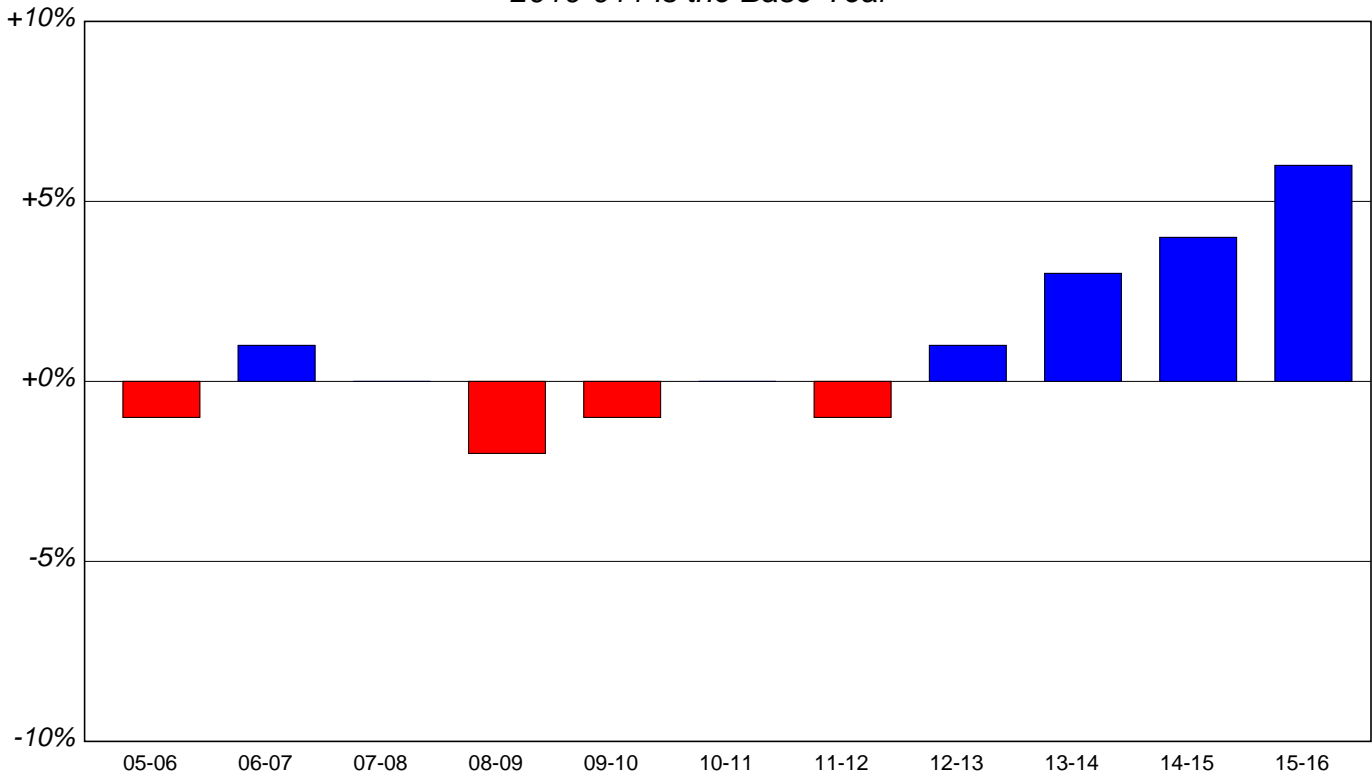
Graph 4-A: K-12 Enrollment 2005-2016

Projection Method 1



Graph 4-B: % Change in K-12 Enrollment

2010-011 is the Base Year



NOTE:

See Table 3 for specific enrollment numbers

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Table 5 - Enrollment Projected Five Years
Method 2

GRADE	2011-12	2012-13	2013-14	2014-15	2015-16
K	205 <i>32.36</i>	216 <i>32.36</i>	218 <i>32.36</i>	222 <i>32.36</i>	229 <i>32.36</i>
1	206 <i>103.40</i>	212 <i>103.40</i>	223 <i>103.40</i>	225 <i>103.40</i>	230 <i>103.40</i>
2	248 <i>101.98</i>	210 <i>101.98</i>	216 <i>101.98</i>	227 <i>101.98</i>	229 <i>101.98</i>
3	216 <i>104.76</i>	260 <i>104.76</i>	220 <i>104.76</i>	226 <i>104.76</i>	238 <i>104.76</i>
4	206 <i>103.95</i>	225 <i>103.95</i>	270 <i>103.95</i>	229 <i>103.95</i>	235 <i>103.95</i>
5	244 <i>103.10</i>	212 <i>103.10</i>	232 <i>103.10</i>	278 <i>103.10</i>	236 <i>103.10</i>
6	235 <i>100.88</i>	246 <i>100.88</i>	214 <i>100.88</i>	234 <i>100.88</i>	280 <i>100.88</i>
7	241 <i>105.76</i>	249 <i>105.76</i>	260 <i>105.76</i>	226 <i>105.76</i>	247 <i>105.76</i>
8	206 <i>101.85</i>	245 <i>101.85</i>	254 <i>101.85</i>	265 <i>101.85</i>	230 <i>101.85</i>
9	234 <i>106.48</i>	219 <i>106.48</i>	261 <i>106.48</i>	270 <i>106.48</i>	282 <i>106.48</i>
10	263 <i>100.00</i>	234 <i>100.00</i>	219 <i>100.00</i>	261 <i>100.00</i>	270 <i>100.00</i>
11	241 <i>97.90</i>	257 <i>97.90</i>	229 <i>97.90</i>	214 <i>97.90</i>	256 <i>97.90</i>
12	257 <i>110.47</i>	266 <i>110.47</i>	284 <i>110.47</i>	253 <i>110.47</i>	236 <i>110.47</i>

K-5	1,325	1,335	1,379	1,407	1,397
6-8	682	740	728	725	757
9-12	995	976	993	998	1,044
K-12	3,002	3,051	3,100	3,130	3,198

Tomah Area School District

Table 6 - Comparison of Past and Projected Enrollments Method 2

GRADE	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
K	208 +4.52%	229 +15.08%	178 -10.55%	195 -2.01%	235 +18.09%	199 +0.00%	205 +3.02%	216 +8.54%	218 +9.55%	222 +11.56%	229 +15.08%
1	214 -11.93%	211 -13.17%	231 -4.94%	181 -25.51%	202 -16.87%	243 +0.00%	206 -15.23%	212 -12.76%	223 -8.23%	225 -7.41%	230 -5.35%
2	189 -8.25%	217 +5.34%	218 +5.83%	233 +13.11%	189 -8.25%	206 +0.00%	248 +20.39%	210 +1.94%	216 +4.85%	227 +10.19%	229 +11.17%
3	195 -1.52%	192 -3.03%	222 +12.12%	222 +12.12%	228 +15.15%	198 +0.00%	216 +9.09%	260 +31.31%	220 +11.11%	226 +14.14%	238 +20.20%
4	220 -7.17%	194 -18.14%	197 -16.88%	233 -1.69%	226 -4.64%	237 +0.00%	206 -13.08%	225 -5.06%	270 +13.92%	229 -3.38%	235 -0.84%
5	214 -8.15%	220 -5.58%	202 -13.30%	193 -17.17%	226 -3.00%	233 +0.00%	244 +4.72%	212 -9.01%	232 -0.43%	278 +19.31%	236 +1.29%
6	214 -6.14%	225 -1.32%	243 +6.58%	217 -4.82%	191 -16.23%	228 +0.00%	235 +3.07%	246 +7.89%	214 -6.14%	234 +2.63%	280 +22.81%
7	229 +13.37%	211 +4.46%	220 +8.91%	248 +22.77%	216 +6.93%	202 +0.00%	241 +19.31%	249 +23.27%	260 +28.71%	226 +11.88%	247 +22.28%
8	248 +12.73%	222 +0.91%	223 +1.36%	222 +0.91%	247 +12.27%	220 +0.00%	206 -6.36%	245 +11.36%	254 +15.45%	265 +20.45%	230 +4.55%
9	248 -5.70%	288 +9.51%	266 +1.14%	242 -7.98%	246 -6.46%	263 +0.00%	234 -11.03%	219 -16.73%	261 -0.76%	270 +2.66%	282 +7.22%
10	288 +17.07%	240 -2.44%	285 +15.85%	272 +10.57%	238 -3.25%	246 +0.00%	263 +6.91%	234 -4.88%	219 -10.98%	261 +6.10%	270 +9.76%
11	275 +18.03%	280 +20.17%	237 +1.72%	265 +13.73%	258 +10.73%	233 +0.00%	241 +3.43%	257 +10.30%	229 -1.72%	214 -8.15%	256 +9.87%
12	249 -12.63%	295 +3.51%	288 +1.05%	230 -19.30%	274 -3.86%	285 +0.00%	257 -9.82%	266 -6.67%	284 -0.35%	253 -11.23%	236 -17.19%

K-5	1,240 -5.78%	1,263 -4.03%	1,248 -5.17%	1,257 -4.48%	1,306 -0.76%	1,316 +0.00%	1,325 +0.68%	1,335 +1.44%	1,379 +4.79%	1,407 +6.91%	1,397 +6.16%
6-8	691 +6.31%	658 +1.23%	686 +5.54%	687 +5.69%	654 +0.62%	650 +0.00%	682 +4.92%	740 +13.85%	728 +12.00%	725 +11.54%	757 +16.46%
9-12	1,060 +3.21%	1,103 +7.40%	1,076 +4.77%	1,009 -1.75%	1,016 -1.07%	1,027 +0.00%	995 -3.12%	976 -4.97%	993 -3.31%	998 -2.82%	1,044 +1.66%
K-12	2,991 -0.07%	3,024 +1.04%	3,010 +0.57%	2,953 -1.34%	2,976 -0.57%	2,993 +0.00%	3,002 +0.30%	3,051 +1.94%	3,100 +3.58%	3,130 +4.58%	3,198 +6.85%

Tomah Area School District

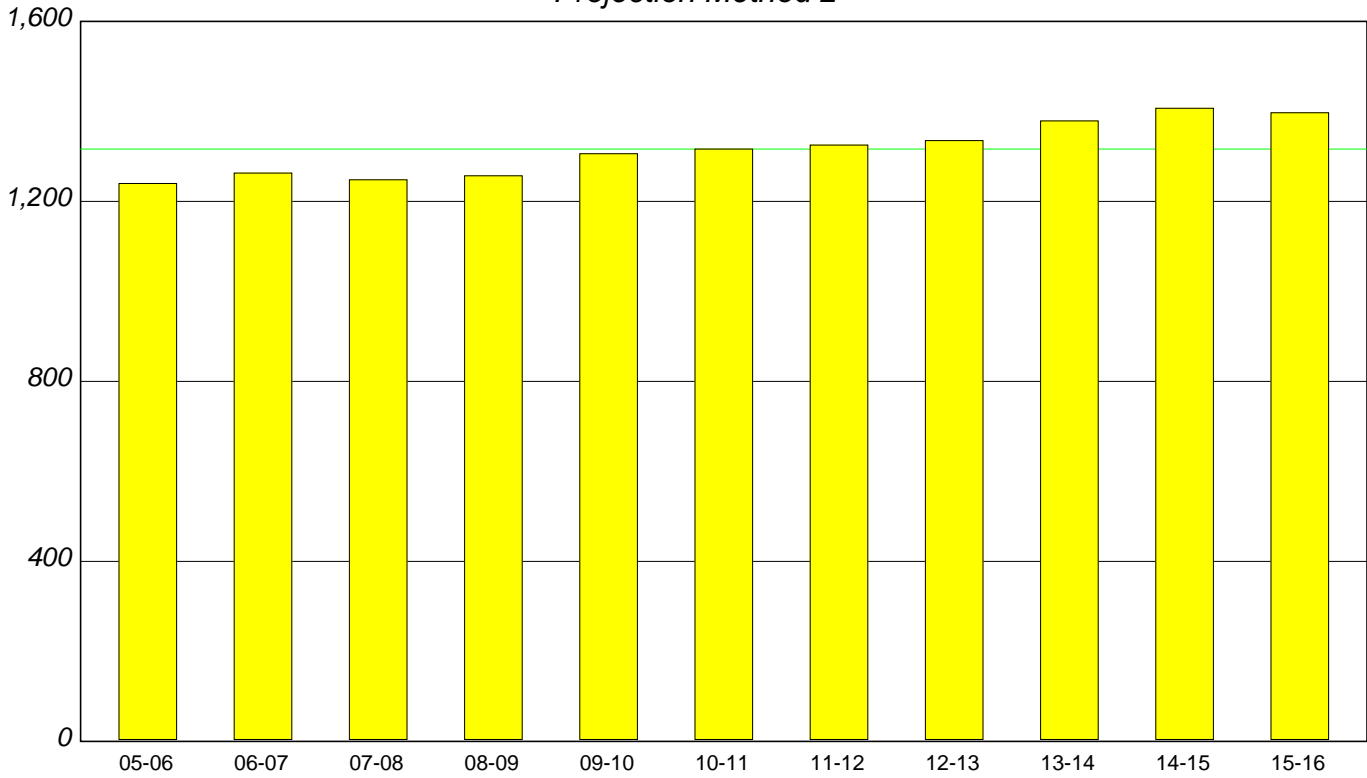
Table 7 - Enrollment Projected Ten Years
Method 2

GRADE	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
K	205	216	218	222	229	0	0	0	0	0
1	206	212	223	225	230	237	0	0	0	0
2	248	210	216	227	229	235	242	0	0	0
3	216	260	220	226	238	240	246	254	0	0
4	206	225	270	229	235	247	249	256	264	0
5	244	212	232	278	236	242	255	257	264	272
6	235	246	214	234	280	238	244	257	259	266
7	241	249	260	226	247	296	252	258	272	274
8	206	245	254	265	230	252	301	257	263	277
9	234	219	261	270	282	245	268	320	274	280
10	263	234	219	261	270	282	245	268	320	274
11	241	257	229	214	256	264	276	240	262	313
12	257	266	284	253	236	283	292	305	265	289

Tomah Area School District

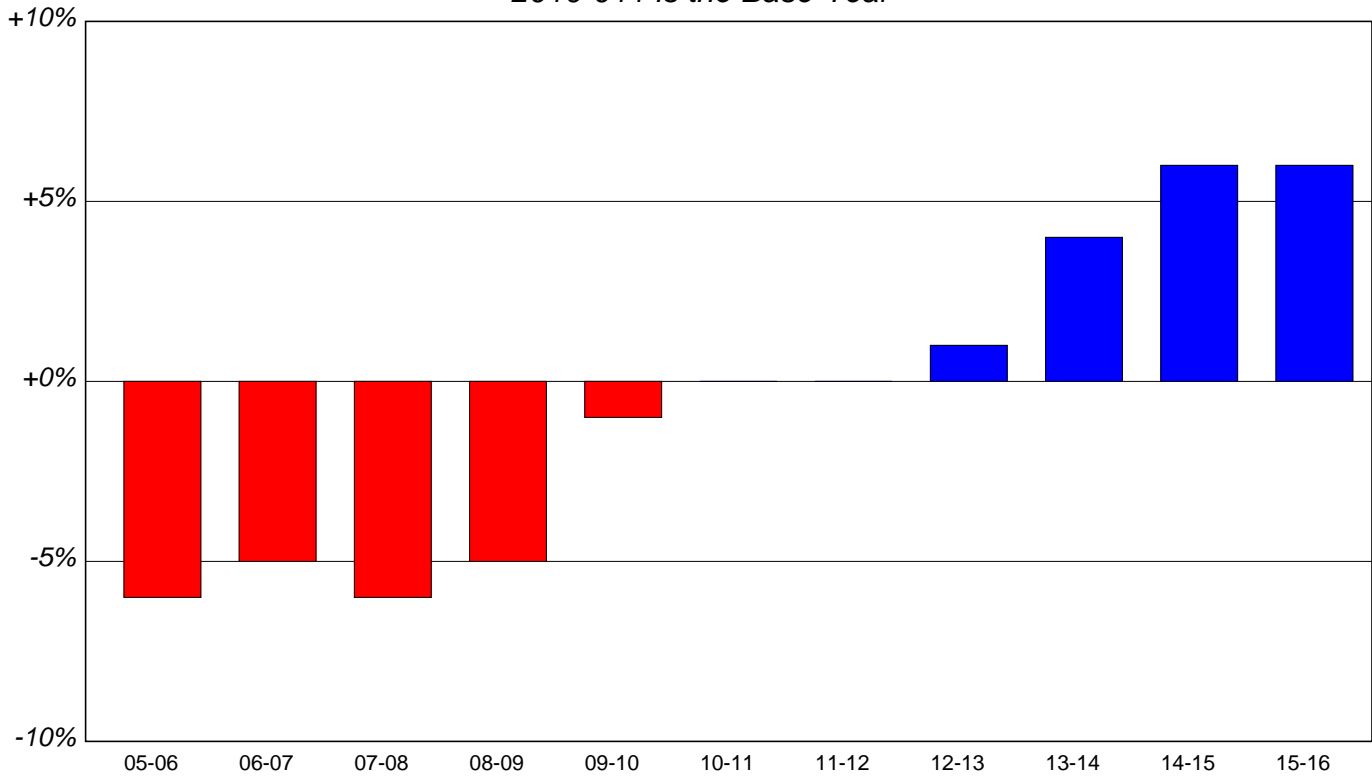
Graph 5-A: K-5 Enrollment 2005-2016

Projection Method 2



Graph 5-B: % Change in K-5 Enrollment

2010-011 is the Base Year



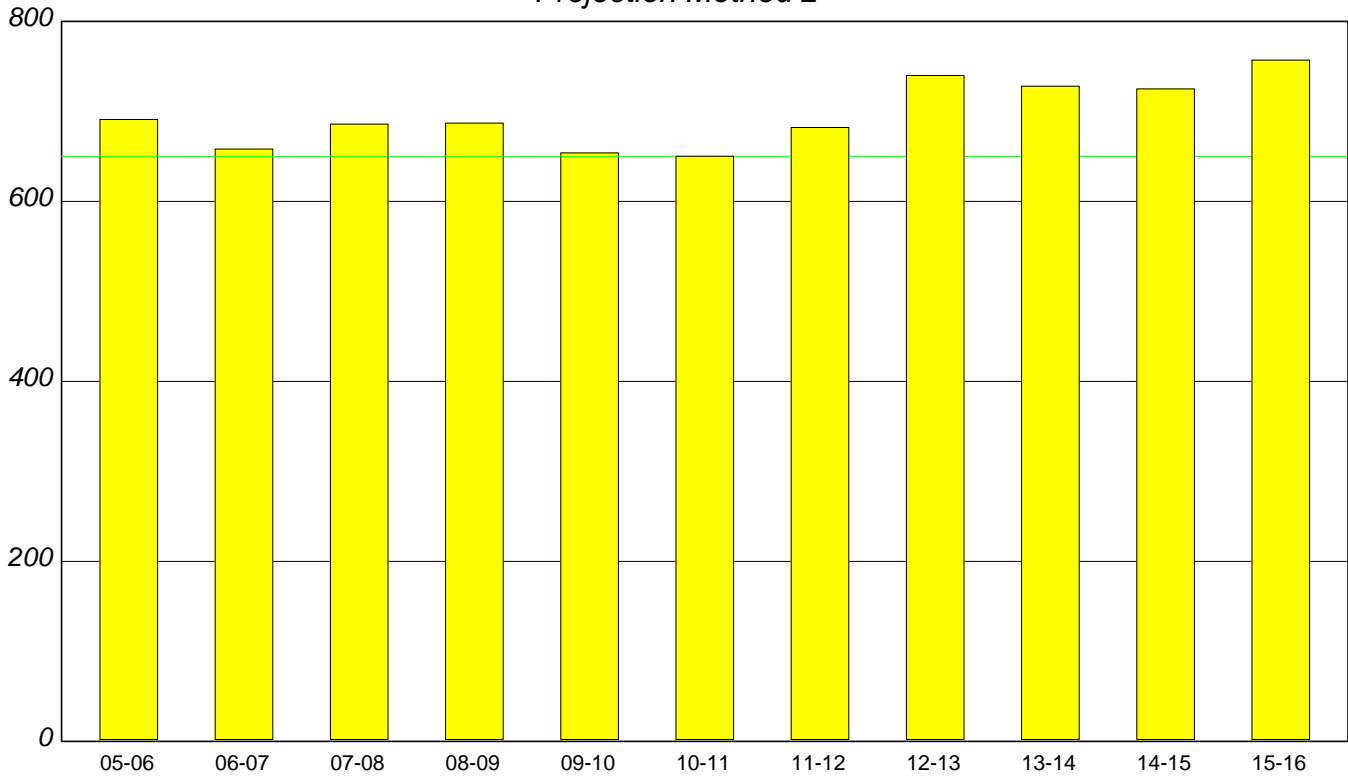
NOTE:

See Table 6 for specific enrollment numbers

Tomah Area School District

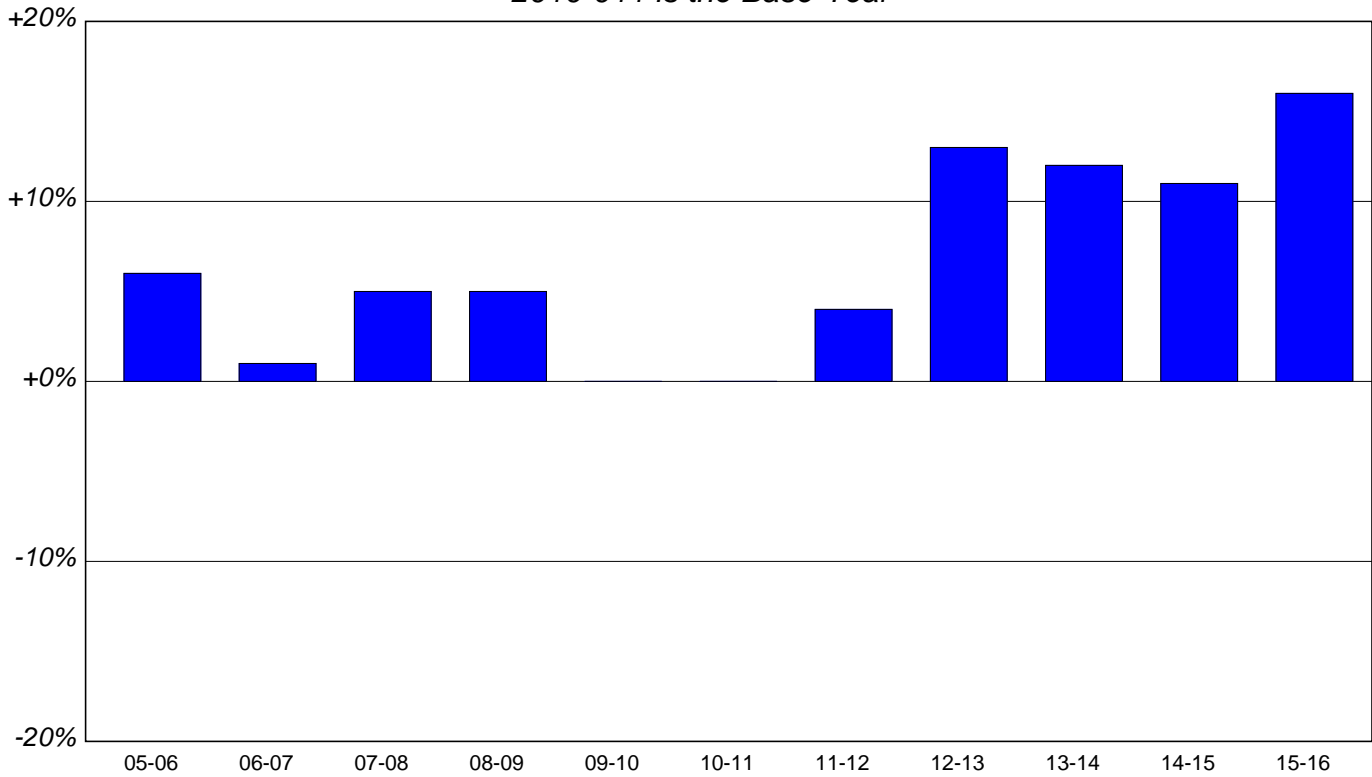
Graph 6-A: 6-8 Enrollment 2005-2016

Projection Method 2



Graph 6-B: % Change in 6-8 Enrollment

2010-011 is the Base Year



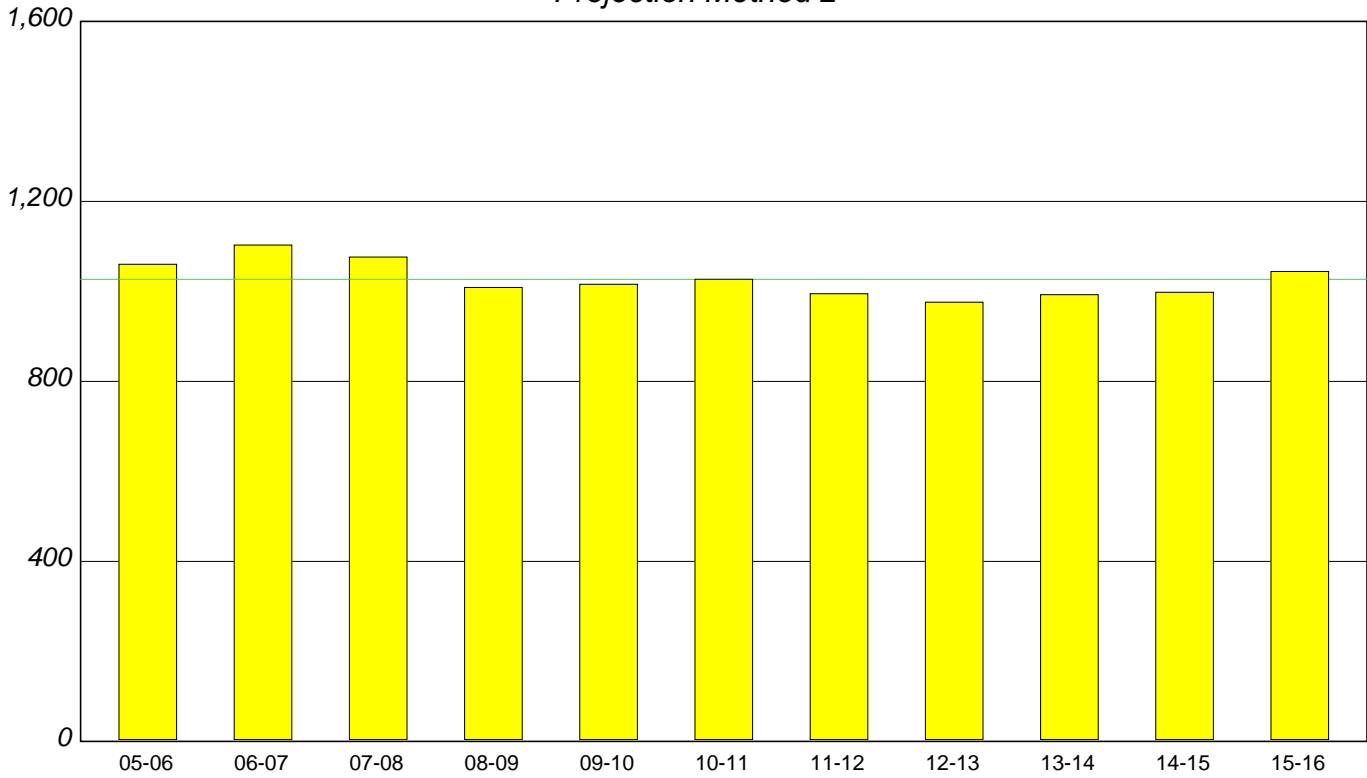
NOTE:

See Table 6 for specific enrollment numbers

Tomah Area School District

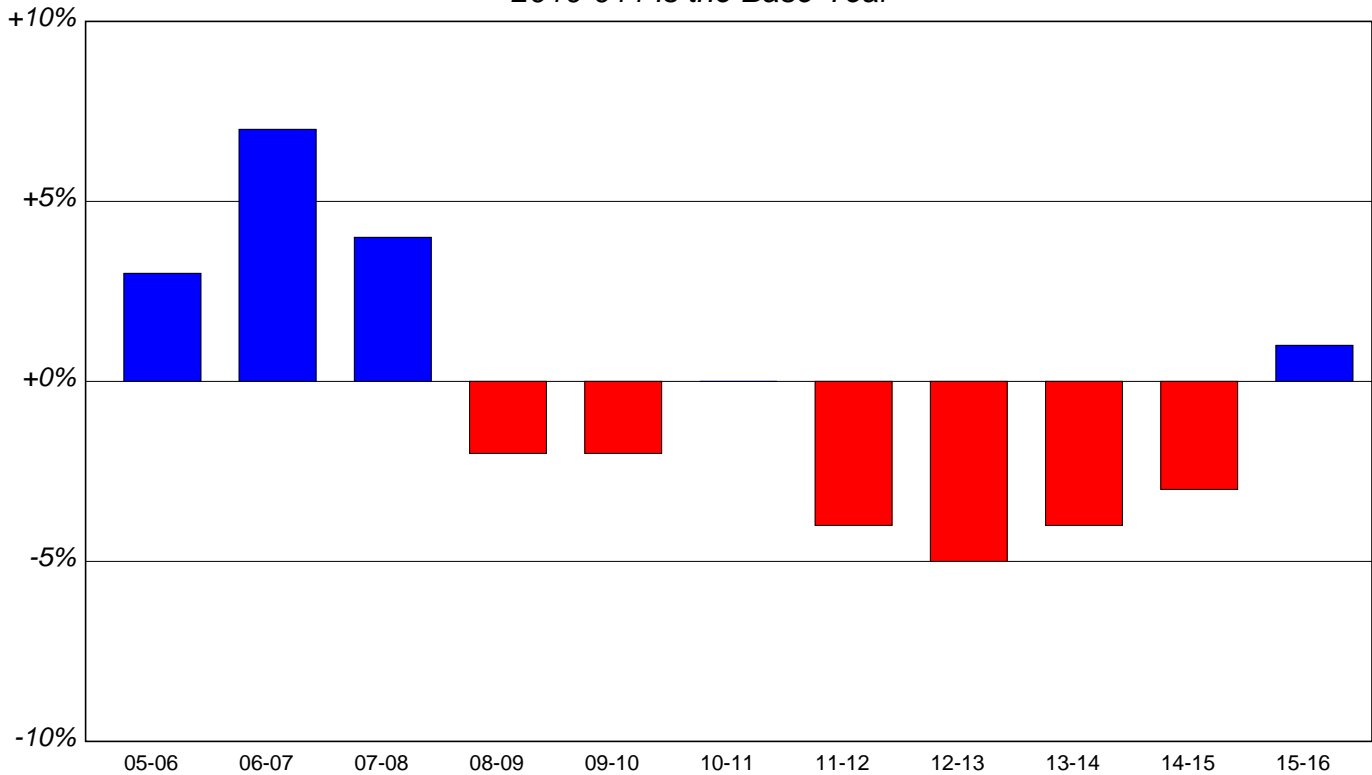
Graph 7-A: 9-12 Enrollment 2005-2016

Projection Method 2



Graph 7-B: % Change in 9-12 Enrollment

2010-011 is the Base Year



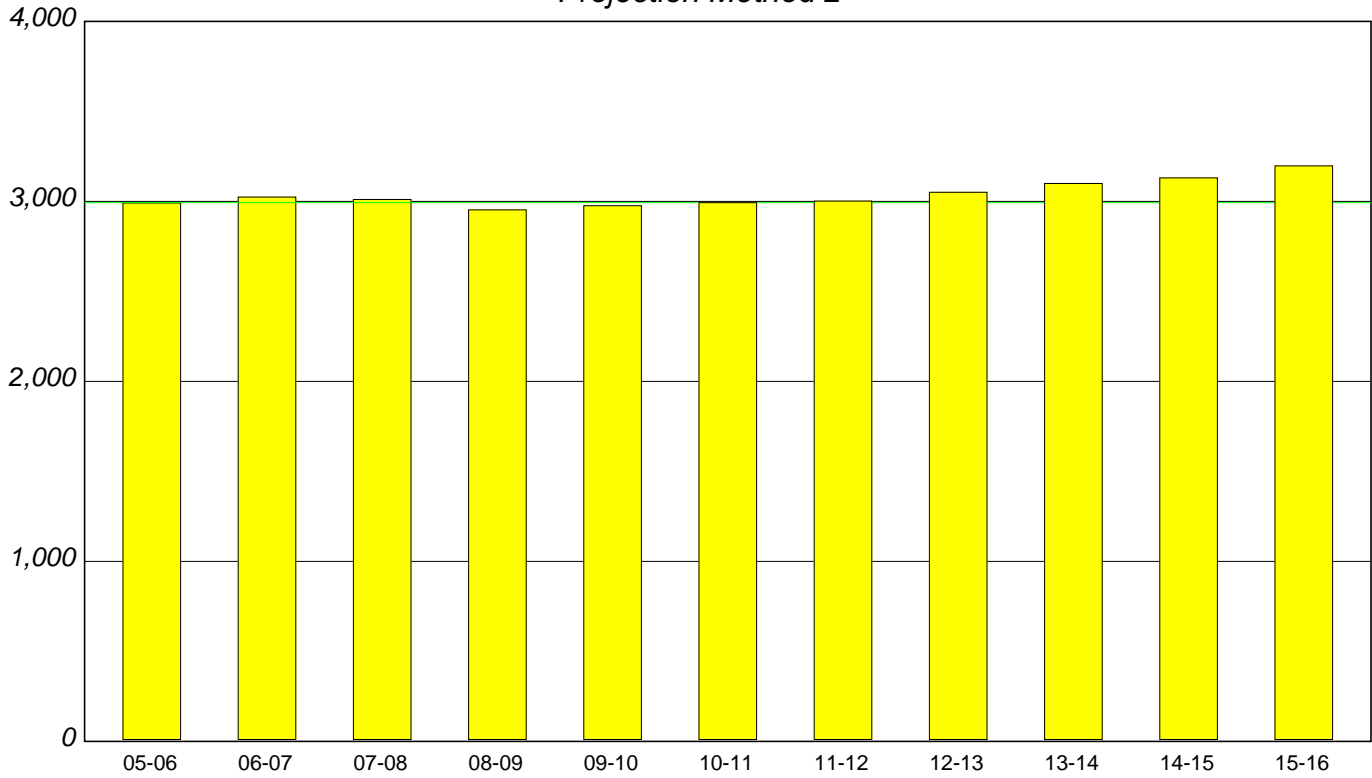
NOTE:

See Table 6 for specific enrollment numbers

Tomah Area School District

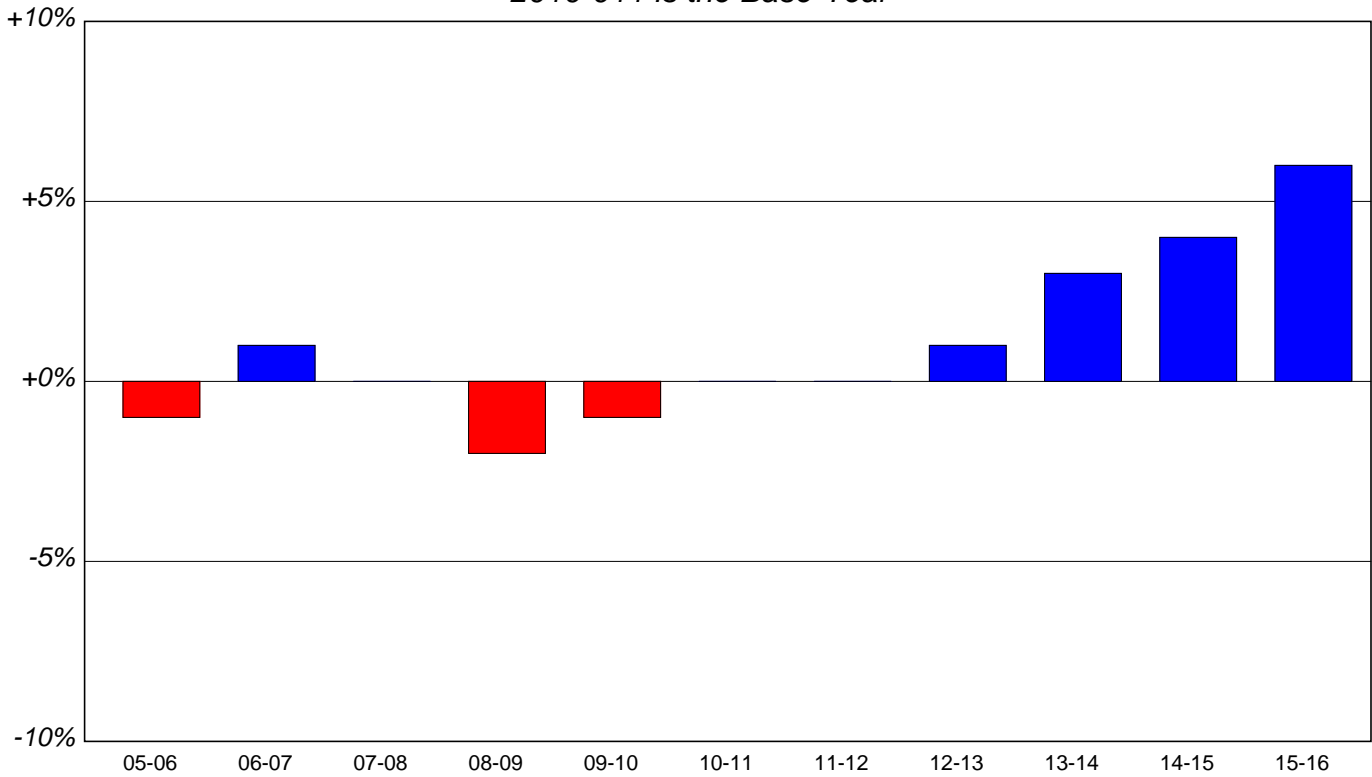
Graph 8-A: K-12 Enrollment 2005-2016

Projection Method 2



Graph 8-B: % Change in K-12 Enrollment

2010-011 is the Base Year



NOTE:

See Table 6 for specific enrollment numbers

Tomah Area School District

Table 8 - Enrollment Projected Five Years
Method 3

GRADE	2011-12	2012-13	2013-14	2014-15	2015-16
K	213 <i>33.59</i>	224 <i>33.59</i>	226 <i>33.59</i>	230 <i>33.59</i>	237 <i>33.59</i>
1	205 <i>102.80</i>	219 <i>102.80</i>	230 <i>102.80</i>	232 <i>102.80</i>	236 <i>102.80</i>
2	248 <i>102.19</i>	209 <i>102.19</i>	224 <i>102.19</i>	235 <i>102.19</i>	237 <i>102.19</i>
3	213 <i>103.22</i>	256 <i>103.22</i>	216 <i>103.22</i>	231 <i>103.22</i>	243 <i>103.22</i>
4	204 <i>103.25</i>	220 <i>103.25</i>	264 <i>103.25</i>	223 <i>103.25</i>	239 <i>103.25</i>
5	241 <i>101.77</i>	208 <i>101.77</i>	224 <i>101.77</i>	269 <i>101.77</i>	227 <i>101.77</i>
6	239 <i>102.73</i>	248 <i>102.73</i>	214 <i>102.73</i>	230 <i>102.73</i>	276 <i>102.73</i>
7	235 <i>103.25</i>	247 <i>103.25</i>	256 <i>103.25</i>	221 <i>103.25</i>	237 <i>103.25</i>
8	205 <i>101.42</i>	238 <i>101.42</i>	251 <i>101.42</i>	260 <i>101.42</i>	224 <i>101.42</i>
9	241 <i>109.41</i>	224 <i>109.41</i>	260 <i>109.41</i>	275 <i>109.41</i>	284 <i>109.41</i>
10	262 <i>99.63</i>	240 <i>99.63</i>	223 <i>99.63</i>	259 <i>99.63</i>	274 <i>99.63</i>
11	239 <i>97.12</i>	254 <i>97.12</i>	233 <i>97.12</i>	217 <i>97.12</i>	252 <i>97.12</i>
12	250 <i>107.34</i>	257 <i>107.34</i>	273 <i>107.34</i>	250 <i>107.34</i>	233 <i>107.34</i>

K-5	1,324	1,336	1,384	1,420	1,419
6-8	679	733	721	711	737
9-12	992	975	989	1,001	1,043
K-12	2,995	3,044	3,094	3,132	3,199

Tomah Area School District

Table 9 - Comparison of Past and Projected Enrollments Method 3

GRADE	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
K	208 +4.52%	229 +15.08%	178 -10.55%	195 -2.01%	235 +18.09%	199 +0.00%	213 +7.04%	224 +12.56%	226 +13.57%	230 +15.58%	237 +19.10%
1	214 -11.93%	211 -13.17%	231 -4.94%	181 -25.51%	202 -16.87%	243 +0.00%	205 -15.64%	219 -9.88%	230 -5.35%	232 -4.53%	236 -2.88%
2	189 -8.25%	217 +5.34%	218 +5.83%	233 +13.11%	189 -8.25%	206 +0.00%	248 +20.39%	209 +1.46%	224 +8.74%	235 +14.08%	237 +15.05%
3	195 -1.52%	192 -3.03%	222 +12.12%	222 +12.12%	228 +15.15%	198 +0.00%	213 +7.58%	256 +29.29%	216 +9.09%	231 +16.67%	243 +22.73%
4	220 -7.17%	194 -18.14%	197 -16.88%	233 -1.69%	226 -4.64%	237 +0.00%	204 -13.92%	220 -7.17%	264 +11.39%	223 -5.91%	239 +0.84%
5	214 -8.15%	220 -5.58%	202 -13.30%	193 -17.17%	226 -3.00%	233 +0.00%	241 +3.43%	208 -10.73%	224 -3.86%	269 +15.45%	227 -2.58%
6	214 -6.14%	225 -1.32%	243 +6.58%	217 -4.82%	191 -16.23%	228 +0.00%	239 +4.82%	248 +8.77%	214 -6.14%	230 +0.88%	276 +21.05%
7	229 +13.37%	211 +4.46%	220 +8.91%	248 +22.77%	216 +6.93%	202 +0.00%	235 +16.34%	247 +22.28%	256 +26.73%	221 +9.41%	237 +17.33%
8	248 +12.73%	222 +0.91%	223 +1.36%	222 +0.91%	247 +12.27%	220 +0.00%	205 -6.82%	238 +8.18%	251 +14.09%	260 +18.18%	224 +1.82%
9	248 -5.70%	288 +9.51%	266 +1.14%	242 -7.98%	246 -6.46%	263 +0.00%	241 -8.37%	224 -14.83%	260 -1.14%	275 +4.56%	284 +7.98%
10	288 +17.07%	240 -2.44%	285 +15.85%	272 +10.57%	238 -3.25%	246 +0.00%	262 +6.50%	240 -2.44%	223 -9.35%	259 +5.28%	274 +11.38%
11	275 +18.03%	280 +20.17%	237 +1.72%	265 +13.73%	258 +10.73%	233 +0.00%	239 +2.58%	254 +9.01%	233 +0.00%	217 -6.87%	252 +8.15%
12	249 -12.63%	295 +3.51%	288 +1.05%	230 -19.30%	274 -3.86%	285 +0.00%	250 -12.28%	257 -9.82%	273 -4.21%	250 -12.28%	233 -18.25%

K-5	1,240 -5.78%	1,263 -4.03%	1,248 -5.17%	1,257 -4.48%	1,306 -0.76%	1,316 +0.00%	1,324 +0.61%	1,336 +1.52%	1,384 +5.17%	1,420 +7.90%	1,419 +7.83%
6-8	691 +6.31%	658 +1.23%	686 +5.54%	687 +5.69%	654 +0.62%	650 +0.00%	679 +4.46%	733 +12.77%	721 +10.92%	711 +9.38%	737 +13.38%
9-12	1,060 +3.21%	1,103 +7.40%	1,076 +4.77%	1,009 -1.75%	1,016 -1.07%	1,027 +0.00%	992 -3.41%	975 -5.06%	989 -3.70%	1,001 -2.53%	1,043 +1.56%
K-12	2,991 -0.07%	3,024 +1.04%	3,010 +0.57%	2,953 -1.34%	2,976 -0.57%	2,993 +0.00%	2,995 +0.07%	3,044 +1.70%	3,094 +3.37%	3,132 +4.64%	3,199 +6.88%

Tomah Area School District

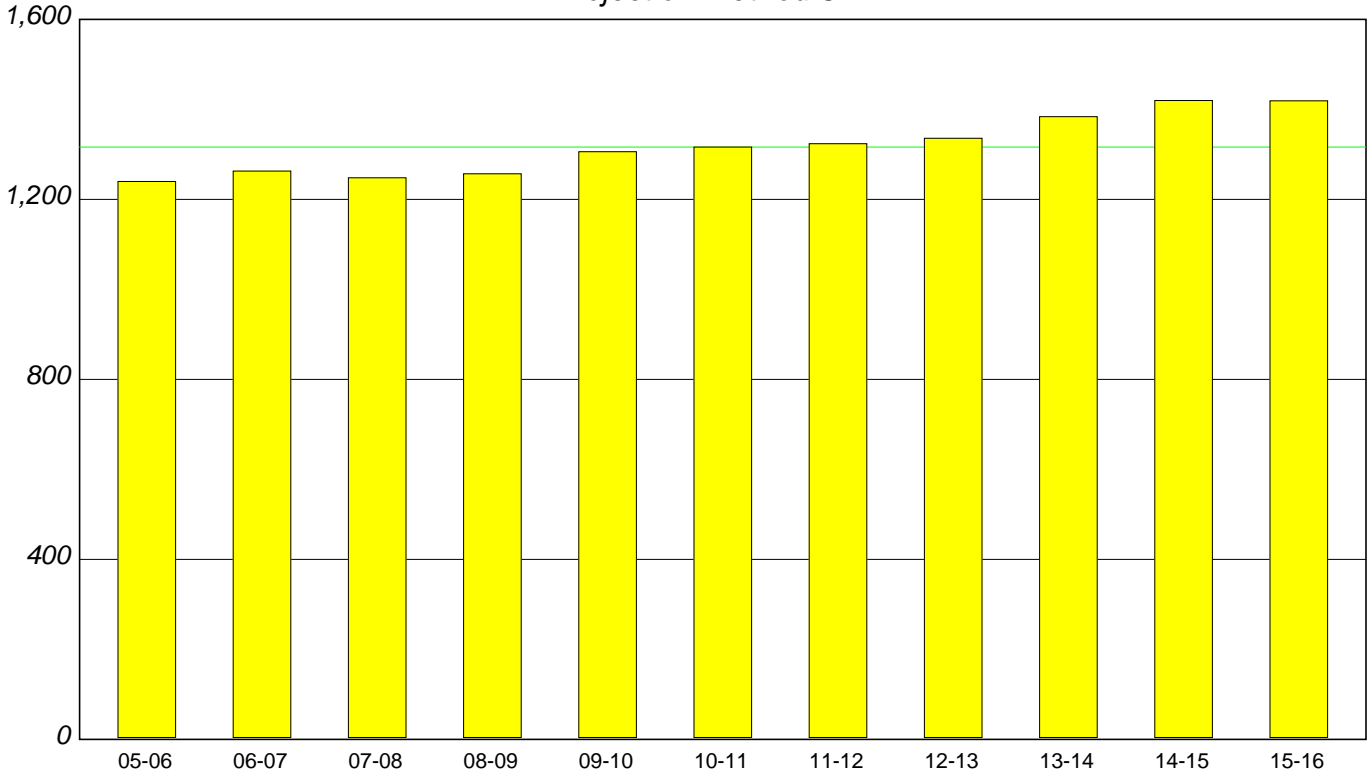
Table 10 - Enrollment Projected Ten Years
Method 3

GRADE	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
K	213	224	226	230	237	0	0	0	0	0
1	205	219	230	232	236	244	0	0	0	0
2	248	209	224	235	237	241	249	0	0	0
3	213	256	216	231	243	245	249	257	0	0
4	204	220	264	223	239	251	253	257	265	0
5	241	208	224	269	227	243	255	257	262	270
6	239	248	214	230	276	233	250	262	264	269
7	235	247	256	221	237	285	241	258	271	273
8	205	238	251	260	224	240	289	244	262	275
9	241	224	260	275	284	245	263	316	267	287
10	262	240	223	259	274	283	244	262	315	266
11	239	254	233	217	252	266	275	237	254	306
12	250	257	273	250	233	270	286	295	254	273

Tomah Area School District

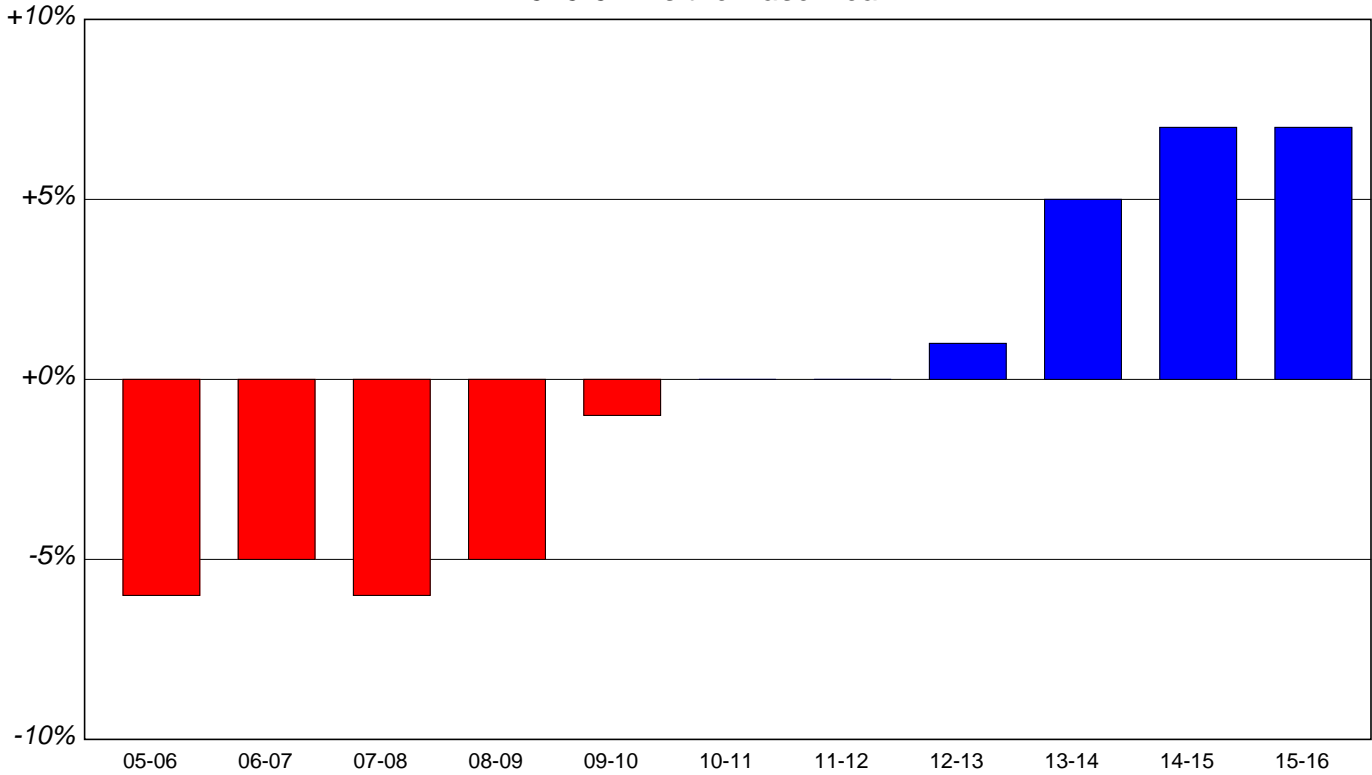
Graph 9-A: K-5 Enrollment 2005-2016

Projection Method 3



Graph 9-B: % Change in K-5 Enrollment

2010-011 is the Base Year



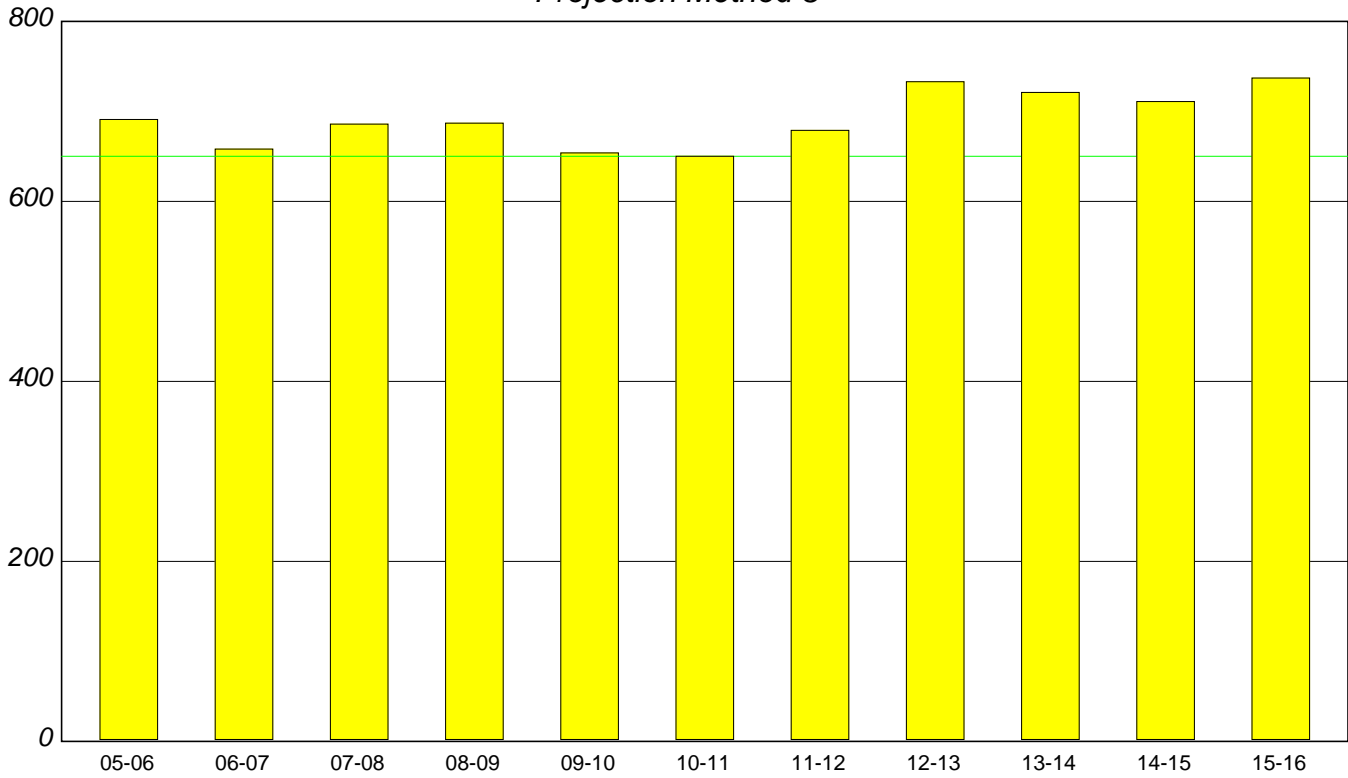
NOTE:

See Table 9 for specific enrollment numbers

Tomah Area School District

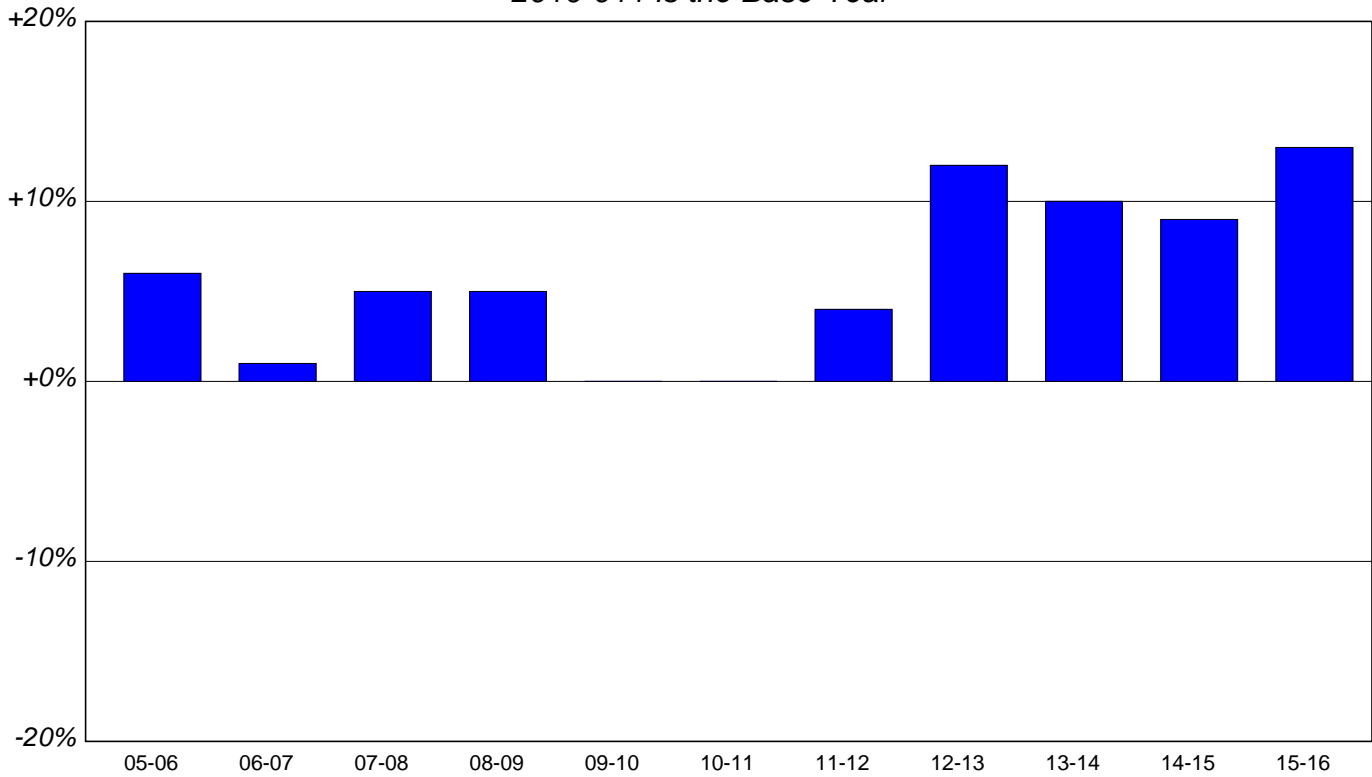
Graph 10-A: 6-8 Enrollment 2005-2016

Projection Method 3



Graph 10-B: % Change in 6-8 Enrollment

2010-011 is the Base Year



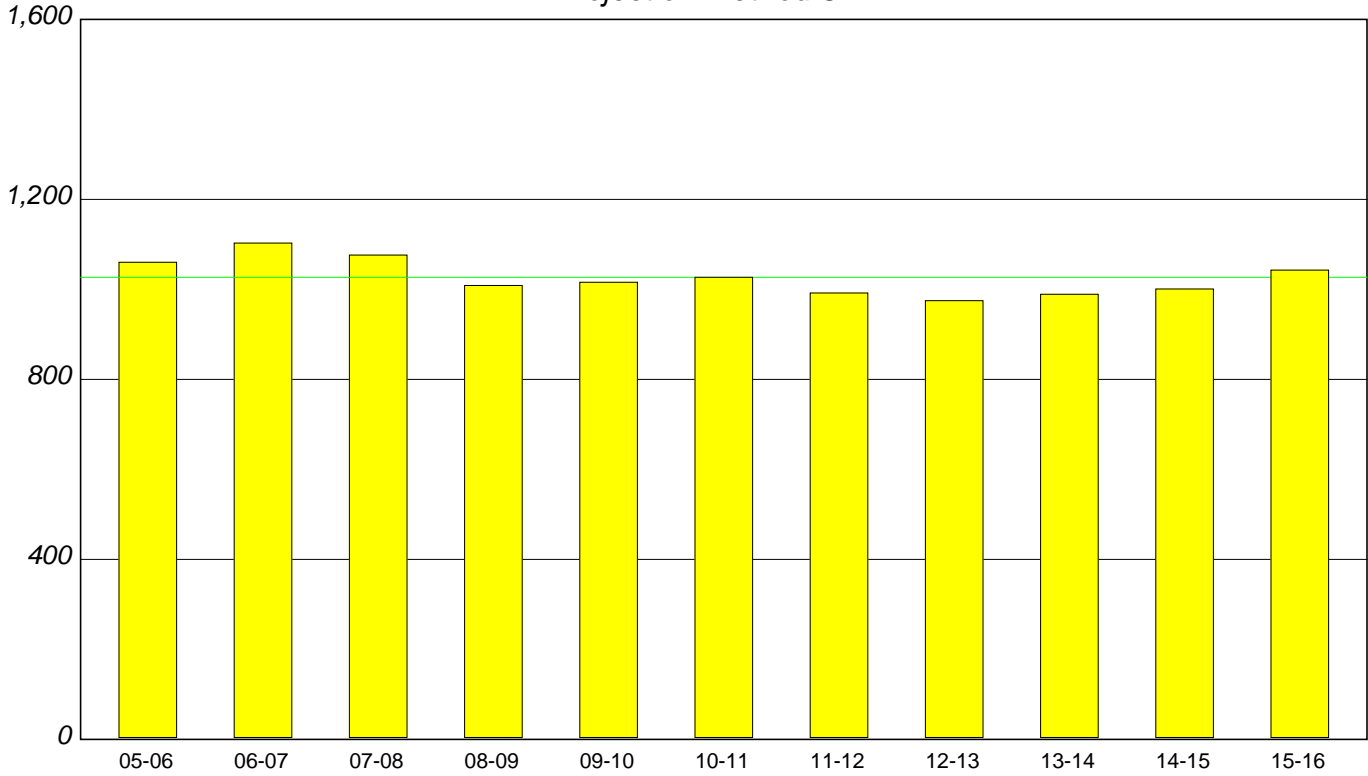
NOTE:

See Table 9 for specific enrollment numbers

Tomah Area School District

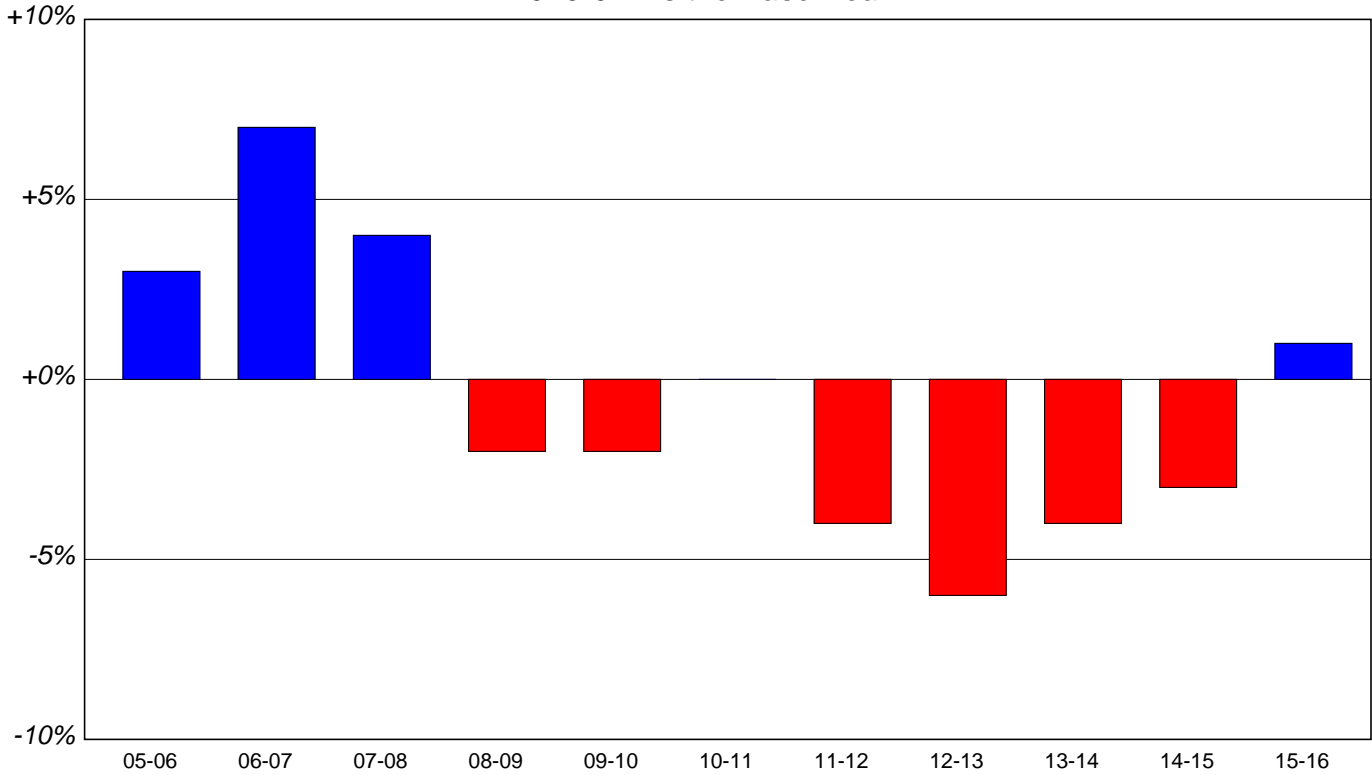
Graph 11-A: 9-12 Enrollment 2005-2016

Projection Method 3



Graph 11-B: % Change in 9-12 Enrollment

2010-011 is the Base Year



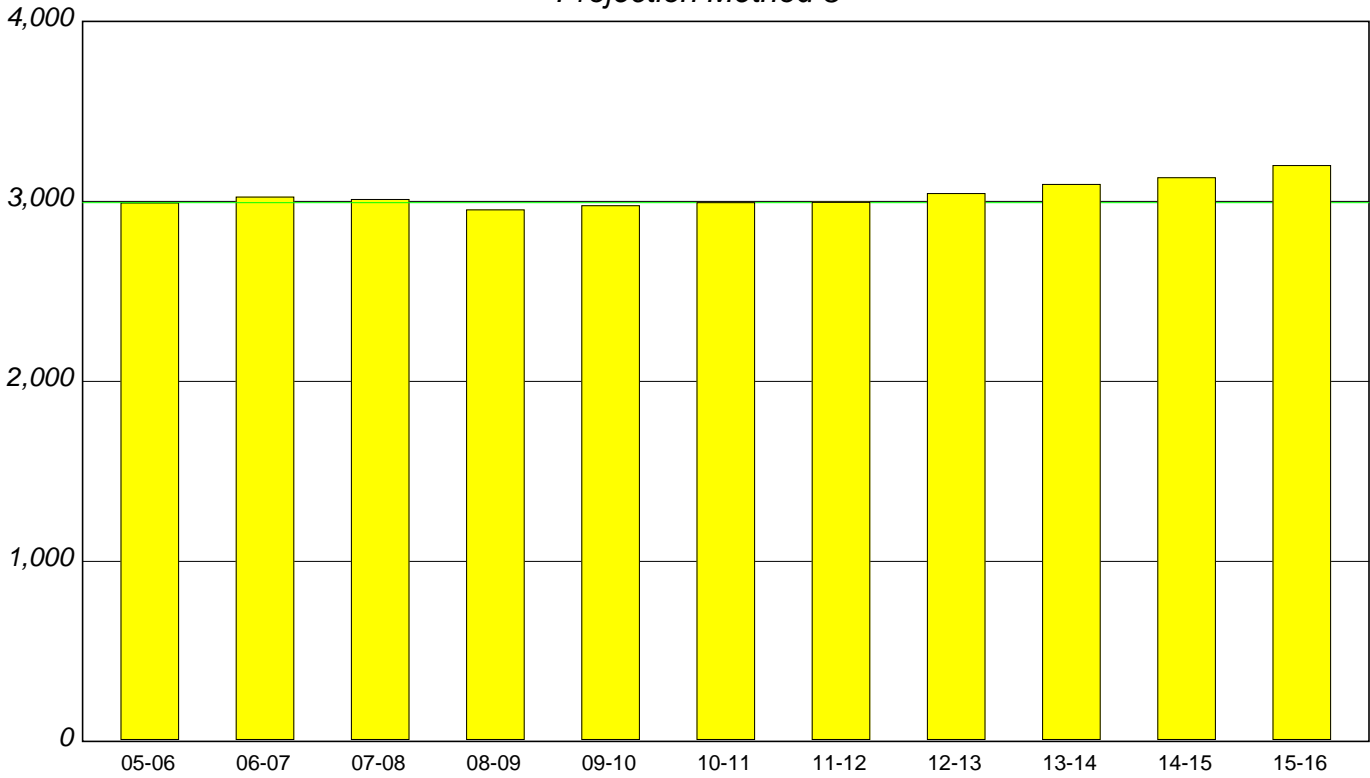
NOTE:

See Table 9 for specific enrollment numbers

Tomah Area School District

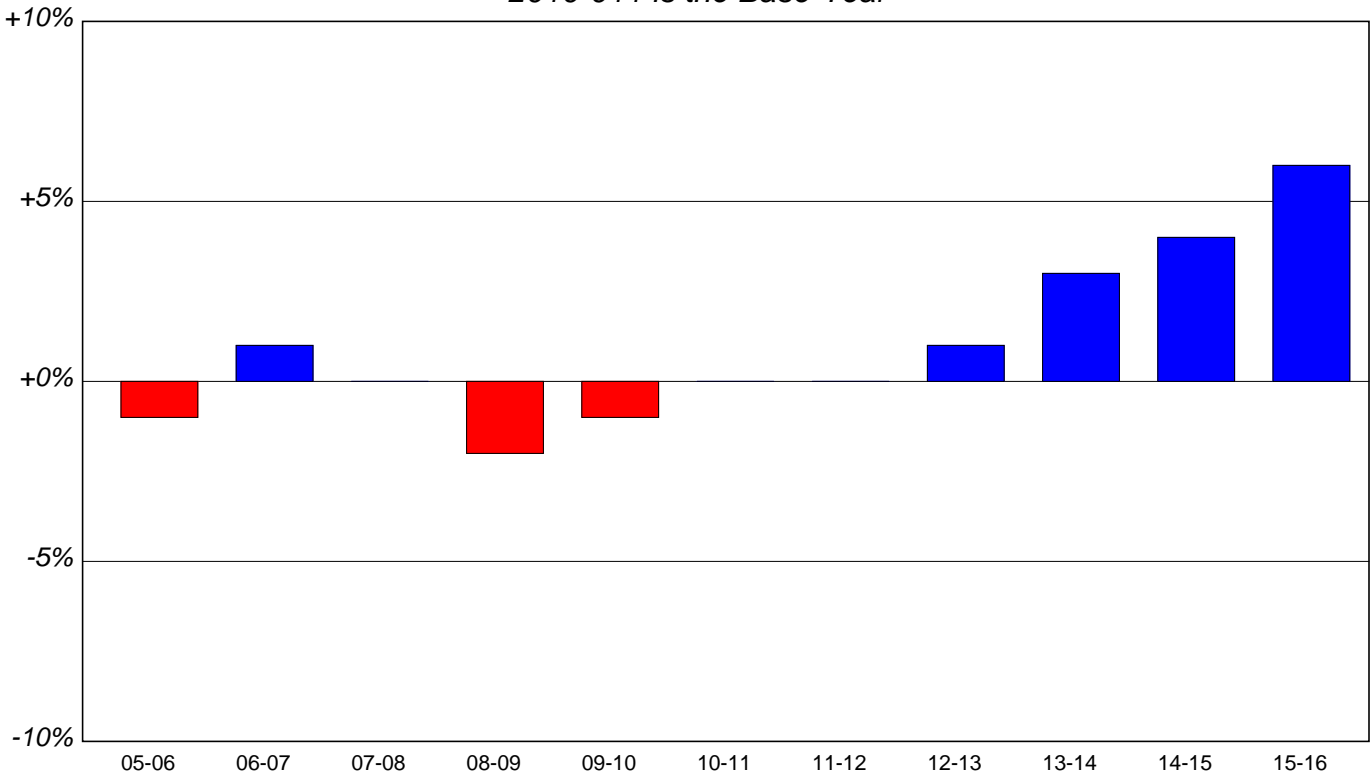
Graph 12-A: K-12 Enrollment 2005-2016

Projection Method 3



Graph 12-B: % Change in K-12 Enrollment

2010-011 is the Base Year

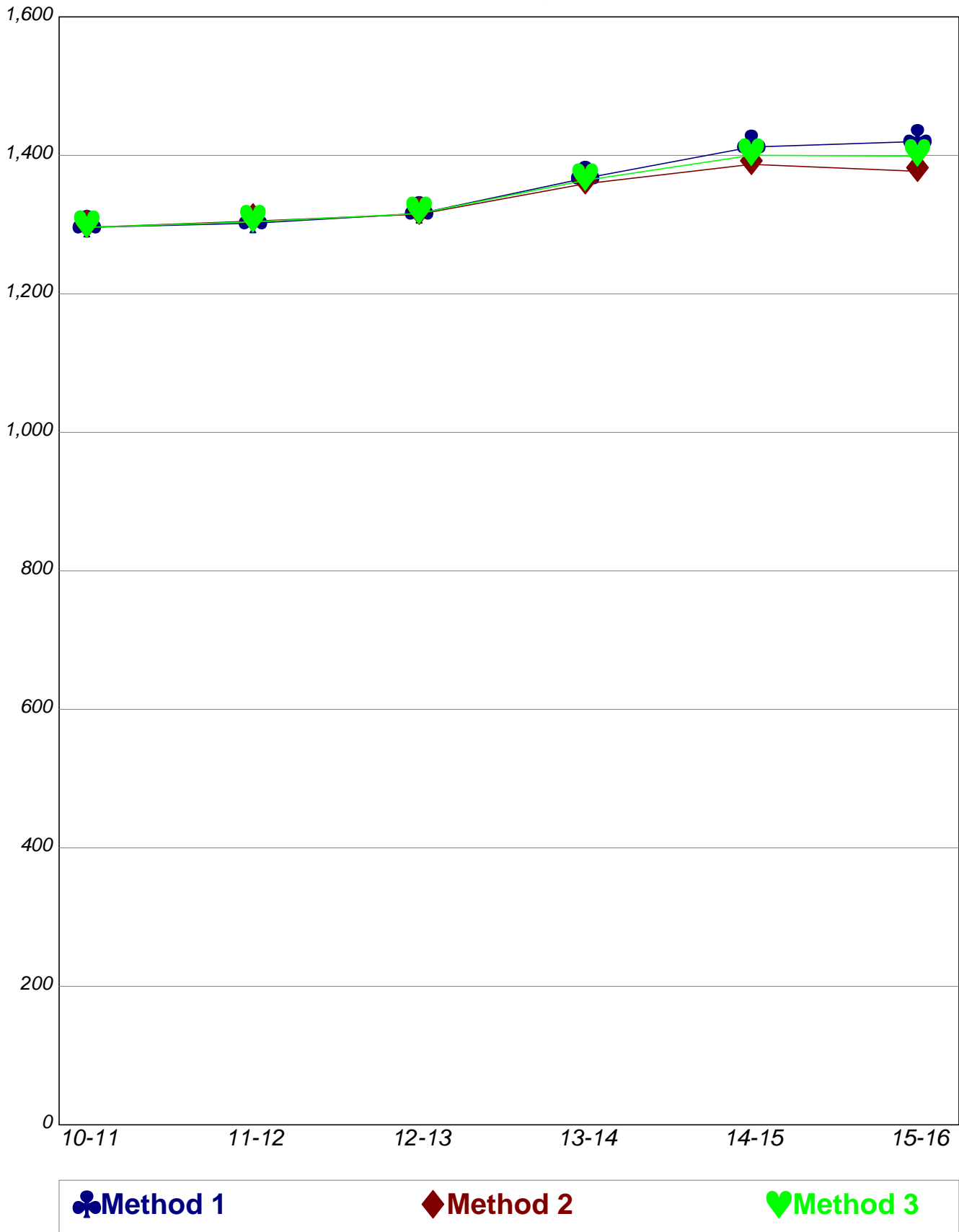


NOTE:

See Table 9 for specific enrollment numbers

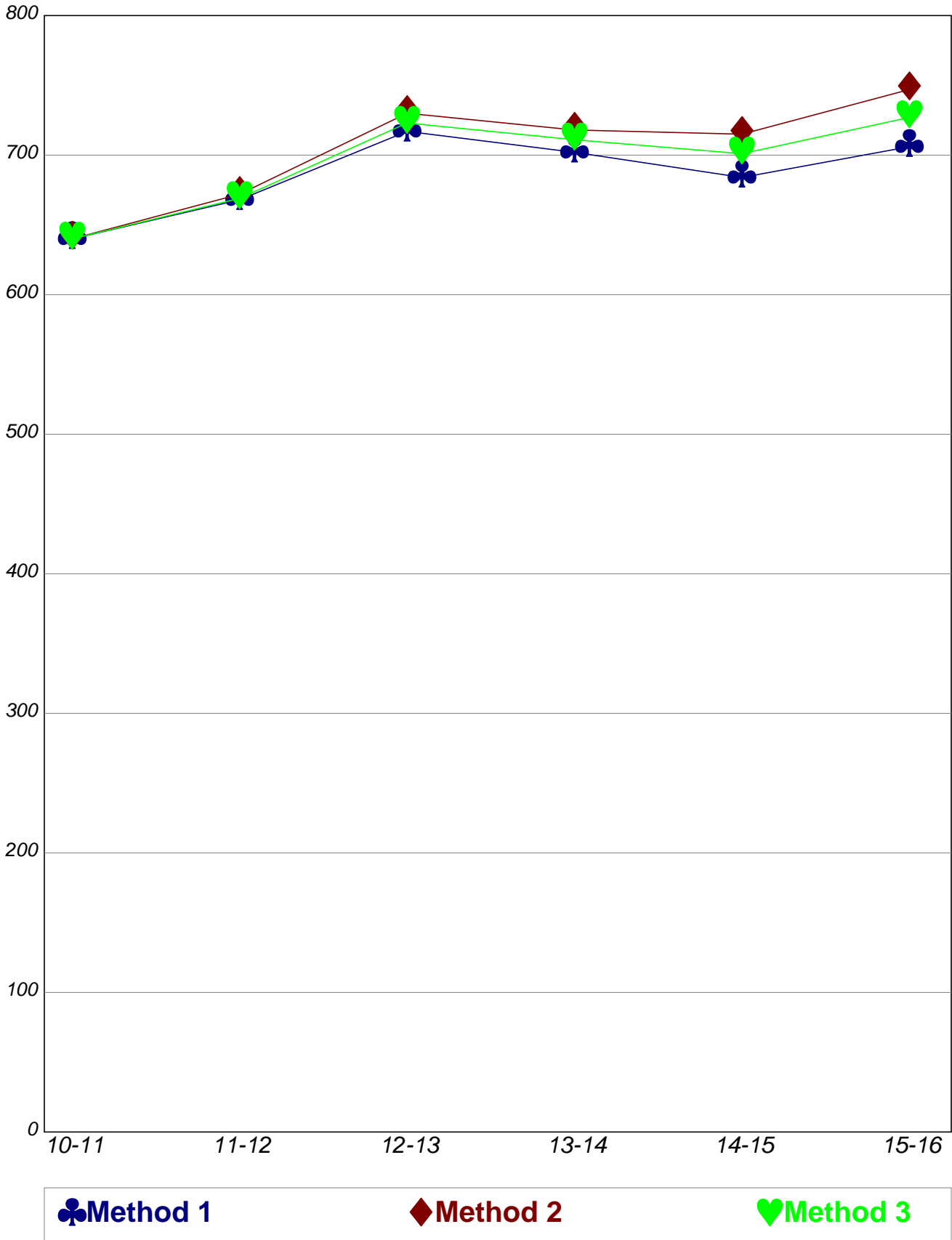
Tomah Area School District

Graph 13
K-5 Enrollment 2010-2015
Comparison between projection methods



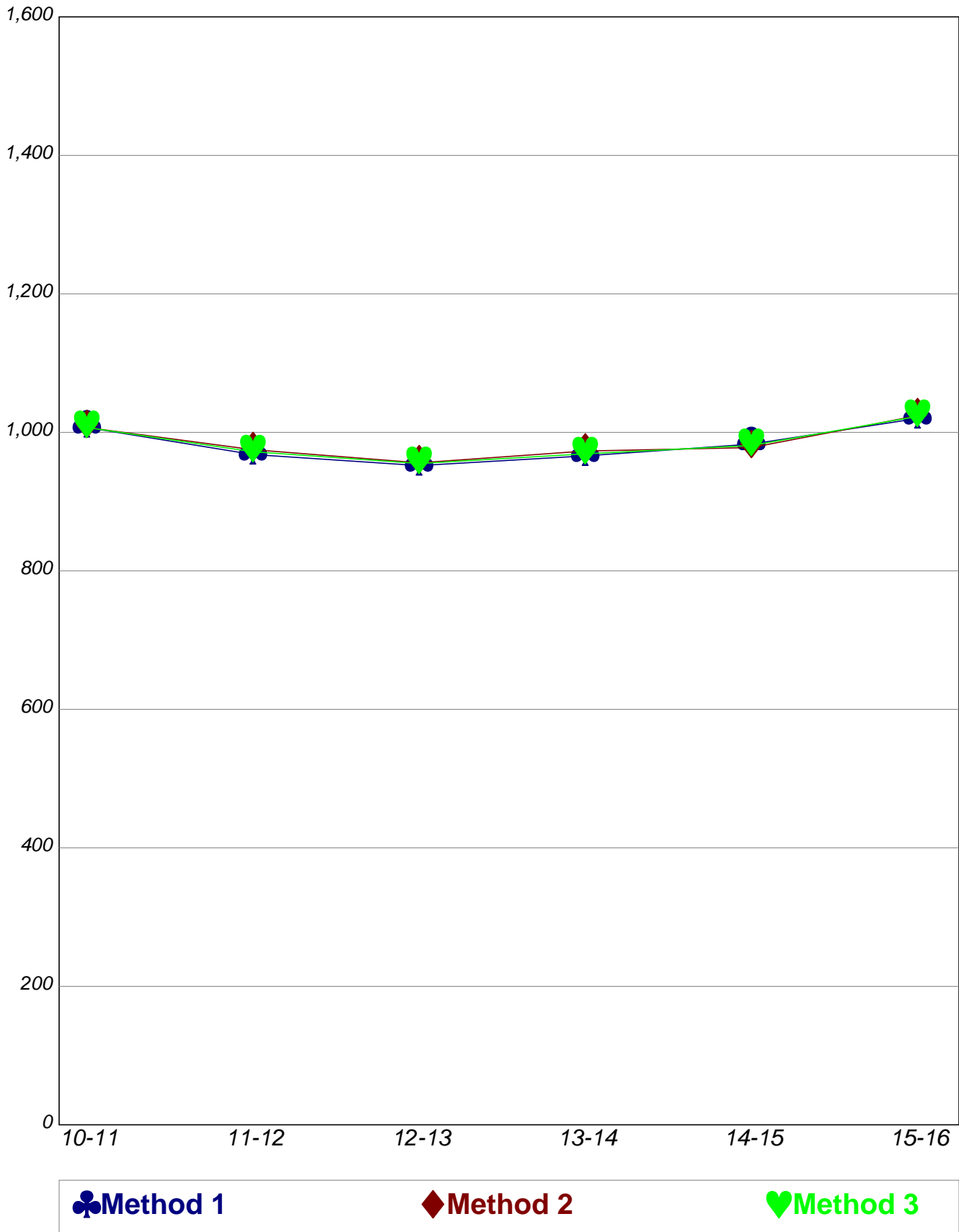
Tomah Area School District

Graph 14
6-8 Enrollment 2010-2015
Comparison between projection methods



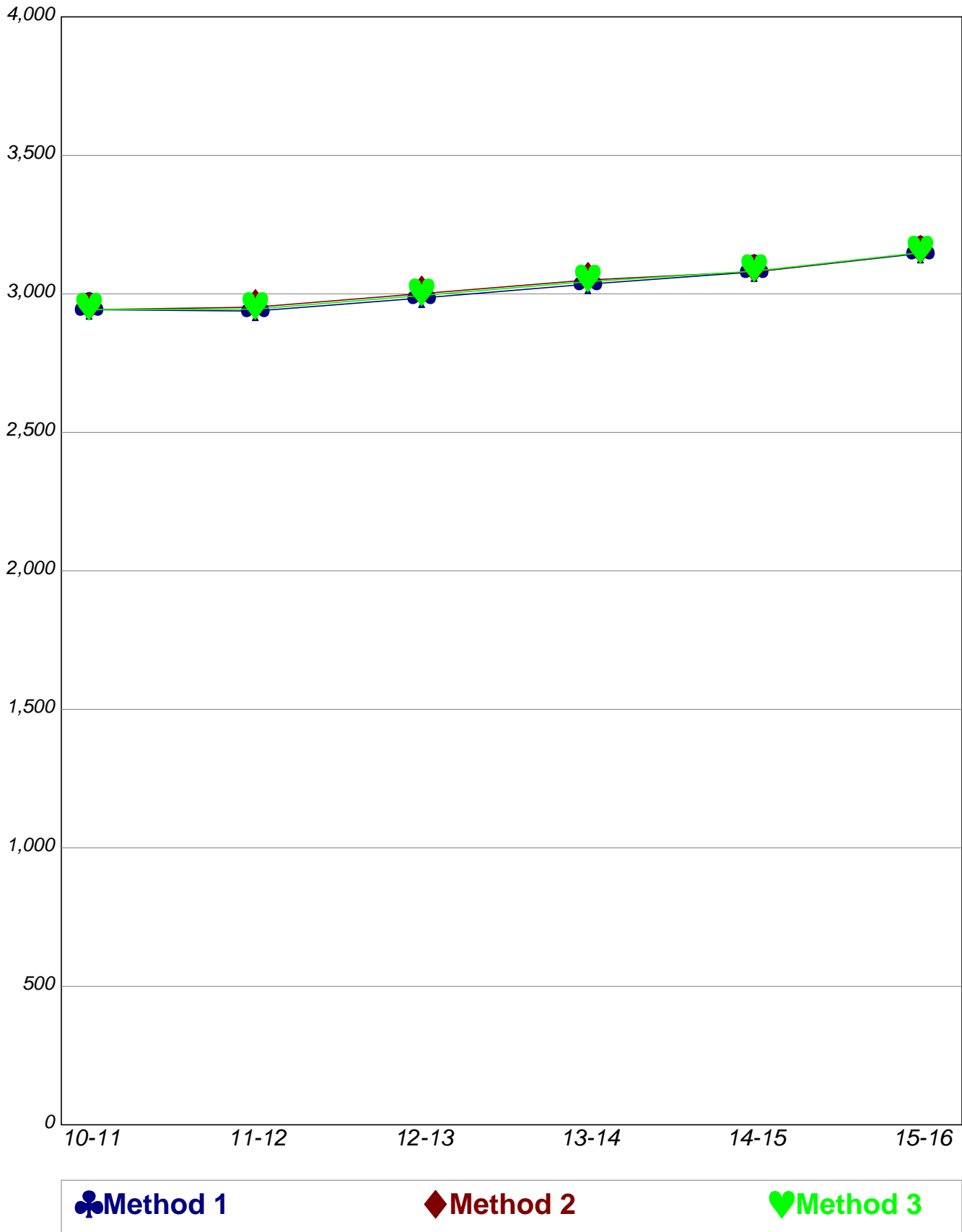
Tomah Area School District

Graph 15
9-12 Enrollment 2010-2015
Comparison between projection methods



Tomah Area School District

Graph 16
K-12 Enrollment 2010-2015
Comparison between projection methods



Tomah Area School District

Table 11 - Teacher Requirements Projected Ten Years
Teacher/Pupil Ratio = 1:22

GRADE	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
K	10.0	10.5	10.7	10.9	11.2	0.0	0.0	0.0	0.0	0.0
1	9.2	10.2	10.8	10.9	11.1	11.4	0.0	0.0	0.0	0.0
2	11.3	9.5	10.5	11.0	11.2	11.4	11.7	0.0	0.0	0.0
3	9.5	11.5	9.6	10.6	11.2	11.4	11.5	11.9	0.0	0.0
4	9.2	9.7	11.8	9.8	10.9	11.5	11.6	11.9	12.2	0.0
5	10.8	9.3	9.8	11.8	9.9	11.0	11.5	11.7	11.9	12.2
6	11.1	11.3	9.7	10.2	12.4	10.3	11.5	12.1	12.2	12.5
7	10.5	11.2	11.4	9.8	10.3	12.5	10.4	11.5	12.2	12.3
8	9.3	10.5	11.3	11.5	9.9	10.4	12.6	10.5	11.7	12.3
9	11.2	10.4	11.9	12.7	13.0	11.1	11.7	14.1	11.8	13.1
10	11.9	11.1	10.3	11.8	12.6	12.9	11.0	11.6	14.0	11.7
11	10.8	11.4	10.7	10.0	11.4	12.1	12.4	10.6	11.2	13.5
12	11.0	11.2	11.9	11.2	10.4	11.9	12.6	12.9	11.0	11.6

Tomah Area School District

Table 12 - Teacher Requirements Projected Ten Years
Teacher/Pupil Ratio = 1:24

GRADE	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
K	9.2	9.7	9.8	10.0	10.3	0.0	0.0	0.0	0.0	0.0
1	8.5	9.4	9.9	10.0	10.2	10.5	0.0	0.0	0.0	0.0
2	10.4	8.7	9.6	10.1	10.3	10.4	10.7	0.0	0.0	0.0
3	8.7	10.5	8.8	9.8	10.3	10.4	10.6	10.9	0.0	0.0
4	8.5	8.9	10.8	9.0	10.0	10.5	10.7	10.9	11.2	0.0
5	9.9	8.5	9.0	10.8	9.0	10.0	10.6	10.7	10.9	11.2
6	10.2	10.4	8.9	9.4	11.3	9.5	10.5	11.1	11.2	11.4
7	9.6	10.3	10.5	9.0	9.5	11.4	9.5	10.6	11.2	11.3
8	8.5	9.7	10.3	10.6	9.0	9.5	11.5	9.6	10.7	11.3
9	10.3	9.5	10.9	11.6	11.9	10.2	10.7	13.0	10.8	12.0
10	10.9	10.2	9.5	10.8	11.5	11.8	10.1	10.6	12.9	10.8
11	9.9	10.5	9.8	9.1	10.4	11.1	11.4	9.7	10.3	12.4
12	10.1	10.3	10.9	10.3	9.5	10.9	11.6	11.8	10.1	10.7

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Table 13 - Teacher Requirements Projected Ten Years
Teacher/Pupil Ratio = 1:26

GRADE	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
K	8.5	8.9	9.0	9.2	9.5	0.0	0.0	0.0	0.0	0.0
1	7.8	8.7	9.1	9.2	9.4	9.7	0.0	0.0	0.0	0.0
2	9.6	8.0	8.8	9.3	9.5	9.6	9.9	0.0	0.0	0.0
3	8.0	9.7	8.1	9.0	9.5	9.6	9.8	10.0	0.0	0.0
4	7.8	8.2	10.0	8.3	9.2	9.7	9.8	10.0	10.3	0.0
5	9.2	7.8	8.3	10.0	8.3	9.3	9.8	9.9	10.1	10.3
6	9.4	9.6	8.2	8.7	10.5	8.7	9.7	10.2	10.3	10.5
7	8.8	9.5	9.7	8.3	8.7	10.5	8.8	9.8	10.3	10.4
8	7.8	8.9	9.5	9.8	8.3	8.8	10.7	8.9	9.9	10.4
9	9.5	8.8	10.0	10.7	11.0	9.4	9.9	12.0	10.0	11.1
10	10.0	9.4	8.7	10.0	10.7	10.9	9.3	9.8	11.9	9.9
11	9.1	9.7	9.1	8.4	9.6	10.3	10.5	9.0	9.5	11.5
12	9.3	9.5	10.1	9.5	8.8	10.0	10.7	10.9	9.3	9.8

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Table 14 - Teacher Requirements Projected Ten Years
Teacher/Pupil Ratio = 1:28

GRADE	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
K	7.9	8.3	8.4	8.5	8.8	0.0	0.0	0.0	0.0	0.0
1	7.3	8.0	8.5	8.6	8.7	9.0	0.0	0.0	0.0	0.0
2	8.9	7.4	8.2	8.7	8.8	8.9	9.2	0.0	0.0	0.0
3	7.5	9.0	7.5	8.4	8.8	8.9	9.1	9.3	0.0	0.0
4	7.3	7.6	9.3	7.7	8.6	9.0	9.1	9.3	9.6	0.0
5	8.5	7.3	7.7	9.3	7.8	8.6	9.1	9.2	9.4	9.6
6	8.7	8.9	7.6	8.0	9.7	8.1	9.0	9.5	9.6	9.8
7	8.2	8.8	9.0	7.7	8.1	9.8	8.2	9.1	9.6	9.7
8	7.3	8.3	8.9	9.1	7.8	8.2	9.9	8.3	9.2	9.7
9	8.8	8.2	9.3	10.0	10.2	8.7	9.2	11.1	9.3	10.3
10	9.3	8.8	8.1	9.3	9.9	10.1	8.6	9.1	11.0	9.2
11	8.5	9.0	8.4	7.8	8.9	9.5	9.8	8.3	8.8	10.6
12	8.7	8.8	9.4	8.8	8.1	9.3	9.9	10.1	8.7	9.1

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Table 15 - Teacher Requirements Projected Ten Years
Teacher/Pupil Ratio = 1:30

GRADE	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
K	7.3	7.7	7.8	8.0	8.2	0.0	0.0	0.0	0.0	0.0
1	6.8	7.5	7.9	8.0	8.1	8.4	0.0	0.0	0.0	0.0
2	8.3	6.9	7.7	8.1	8.2	8.3	8.6	0.0	0.0	0.0
3	7.0	8.4	7.0	7.8	8.2	8.3	8.5	8.7	0.0	0.0
4	6.8	7.1	8.6	7.2	8.0	8.4	8.5	8.7	8.9	0.0
5	7.9	6.8	7.2	8.7	7.2	8.0	8.5	8.6	8.7	9.0
6	8.1	8.3	7.1	7.5	9.1	7.6	8.4	8.9	9.0	9.1
7	7.7	8.2	8.4	7.2	7.6	9.1	7.6	8.5	8.9	9.0
8	6.8	7.7	8.3	8.5	7.2	7.6	9.2	7.7	8.6	9.0
9	8.2	7.6	8.7	9.3	9.5	8.1	8.6	10.4	8.7	9.6
10	8.7	8.2	7.6	8.6	9.2	9.4	8.1	8.5	10.3	8.6
11	7.9	8.4	7.9	7.3	8.3	8.9	9.1	7.8	8.2	9.9
12	8.1	8.2	8.7	8.2	7.6	8.7	9.3	9.5	8.1	8.5

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Table 16 - Teacher Requirements Projected Ten Years
Teacher/Pupil Ratio = 1:32

GRADE	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
K	6.9	7.3	7.3	7.5	7.7	0.0	0.0	0.0	0.0	0.0
1	6.3	7.0	7.4	7.5	7.6	7.8	0.0	0.0	0.0	0.0
2	7.8	6.5	7.2	7.6	7.7	7.8	8.0	0.0	0.0	0.0
3	6.5	7.9	6.6	7.3	7.7	7.8	7.9	8.2	0.0	0.0
4	6.3	6.7	8.1	6.8	7.5	7.9	8.0	8.2	8.4	0.0
5	7.4	6.4	6.7	8.1	6.8	7.5	7.9	8.0	8.2	8.4
6	7.6	7.8	6.7	7.0	8.5	7.1	7.9	8.3	8.4	8.6
7	7.2	7.7	7.8	6.7	7.1	8.6	7.2	7.9	8.4	8.5
8	6.4	7.3	7.8	7.9	6.8	7.2	8.7	7.2	8.0	8.5
9	7.7	7.2	8.2	8.7	8.9	7.6	8.0	9.7	8.1	9.0
10	8.2	7.7	7.1	8.1	8.7	8.8	7.6	8.0	9.7	8.1
11	7.4	7.8	7.4	6.8	7.8	8.3	8.5	7.3	7.7	9.3
12	7.6	7.7	8.2	7.7	7.1	8.2	8.7	8.9	7.6	8.0

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Table 17 - Accuracy Table
Difference Between Actual and Projected 2010-11 Enrollment

Grade	Current Enrollment	Method 1 Projection	% Diff.	Method 2 Projection	% Diff.	Method 3 Projection	% Diff.
K	199	218	+9.51%	246	+23.72%	232	+16.62%
1	243	239	-1.46%	243	+0.18%	241	-0.64%
2	206	207	+0.51%	211	+2.39%	209	+1.45%
3	198	191	-3.69%	185	-6.59%	188	-5.14%
4	237	233	-1.67%	232	-2.06%	233	-1.87%
5	233	225	-3.23%	219	-5.92%	222	-4.57%
6	228	238	+4.57%	224	-1.90%	231	+1.33%
7	202	190	-5.92%	190	-5.88%	190	-5.90%
8	220	218	-1.05%	215	-2.21%	216	-1.63%
9	263	281	+6.90%	274	+4.07%	277	+5.48%
10	246	244	-0.92%	242	-1.65%	243	-1.28%
11	233	228	-1.99%	226	-3.11%	227	-2.55%
12	285	265	-7.08%	267	-6.40%	266	-6.74%
K-5	1,316	1,313	-0.23%	1,336	+1.52%	1,325	+0.68%
6-8	650	646	-0.62%	629	-3.23%	637	-2.00%
9-12	1,027	1,018	-0.88%	1,009	-1.75%	1,013	-1.36%
K-12	2,993	2,977	-0.53%	2,974	-0.63%	2,975	-0.60%