

Suring Public School District

Enrollment Projection
2013/14

Information Management Systems

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Suring Public 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.

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Births for Oconto County

<u>YEAR</u>	<u>BIRTHS</u>
2003	392
2004	400
2005	388
2006	400
2007	397
2008	351
2009	414
2010	368
2011	366
2012	362
2013	357

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Table 1 - Actual Enrollments

GRADE	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
K	32	33 <i>8.25</i>	27 <i>6.96</i>	27 <i>6.75</i>	29 <i>7.30</i>	25 <i>7.12</i>
1	27	32 <i>100.00</i>	34 <i>103.03</i>	30 <i>111.11</i>	28 <i>103.70</i>	29 <i>100.00</i>
2	29	27 <i>100.00</i>	33 <i>103.13</i>	33 <i>97.06</i>	28 <i>93.33</i>	28 <i>100.00</i>
3	27	27 <i>93.10</i>	26 <i>96.30</i>	33 <i>100.00</i>	28 <i>84.85</i>	31 <i>110.71</i>
4	33	30 <i>111.11</i>	27 <i>100.00</i>	23 <i>88.46</i>	30 <i>90.91</i>	29 <i>103.57</i>
5	28	34 <i>103.03</i>	30 <i>100.00</i>	27 <i>100.00</i>	25 <i>108.70</i>	27 <i>90.00</i>
6	28	31 <i>110.71</i>	34 <i>100.00</i>	27 <i>90.00</i>	28 <i>103.70</i>	28 <i>112.00</i>
7	39	29 <i>103.57</i>	29 <i>93.55</i>	34 <i>100.00</i>	24 <i>88.89</i>	26 <i>92.86</i>
8	45	32 <i>82.05</i>	33 <i>113.79</i>	26 <i>89.66</i>	33 <i>97.06</i>	25 <i>104.17</i>
9	43	45 <i>100.00</i>	39 <i>121.88</i>	38 <i>115.15</i>	27 <i>103.85</i>	33 <i>100.00</i>
10	56	40 <i>93.02</i>	46 <i>102.22</i>	34 <i>87.18</i>	31 <i>81.58</i>	28 <i>103.70</i>
11	49	53 <i>94.64</i>	42 <i>105.00</i>	38 <i>82.61</i>	34 <i>100.00</i>	31 <i>100.00</i>
12	51	48 <i>97.96</i>	56 <i>105.66</i>	36 <i>85.71</i>	43 <i>113.16</i>	35 <i>102.94</i>

K-5	176	183	177	173	168	169
6-8	112	92	96	87	85	79
9-12	199	186	183	146	135	127
K-12	487	461	456	406	388	375

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Table 2 - Enrollment Projected Five Years
Method 1

GRADE	2014-15	2015-16	2016-17	2017-18	2018-19
K	30 <i>7.28</i>	27 <i>7.28</i>	27 <i>7.28</i>	26 <i>7.28</i>	26 <i>7.28</i>
1	26 <i>103.57</i>	31 <i>103.57</i>	28 <i>103.57</i>	28 <i>103.57</i>	27 <i>103.57</i>
2	29 <i>98.70</i>	26 <i>98.70</i>	31 <i>98.70</i>	28 <i>98.70</i>	28 <i>98.70</i>
3	27 <i>96.99</i>	28 <i>96.99</i>	25 <i>96.99</i>	30 <i>96.99</i>	27 <i>96.99</i>
4	31 <i>98.81</i>	27 <i>98.81</i>	28 <i>98.81</i>	25 <i>98.81</i>	30 <i>98.81</i>
5	29 <i>100.35</i>	31 <i>100.35</i>	27 <i>100.35</i>	28 <i>100.35</i>	25 <i>100.35</i>
6	28 <i>103.28</i>	30 <i>103.28</i>	32 <i>103.28</i>	28 <i>103.28</i>	29 <i>103.28</i>
7	27 <i>95.77</i>	27 <i>95.77</i>	29 <i>95.77</i>	31 <i>95.77</i>	27 <i>95.77</i>
8	25 <i>97.35</i>	26 <i>97.35</i>	26 <i>97.35</i>	28 <i>97.35</i>	30 <i>97.35</i>
9	27 <i>108.17</i>	27 <i>108.17</i>	28 <i>108.17</i>	28 <i>108.17</i>	30 <i>108.17</i>
10	31 <i>93.54</i>	25 <i>93.54</i>	25 <i>93.54</i>	26 <i>93.54</i>	26 <i>93.54</i>
11	27 <i>96.45</i>	30 <i>96.45</i>	24 <i>96.45</i>	24 <i>96.45</i>	25 <i>96.45</i>
12	31 <i>101.09</i>	27 <i>101.09</i>	30 <i>101.09</i>	24 <i>101.09</i>	24 <i>101.09</i>

K-5	172	170	166	165	163
6-8	80	83	87	87	86
9-12	116	109	107	102	105
K-12	368	362	360	354	354

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Table 3 - Comparison of Past and Projected Enrollments Method 1

GRADE	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
K	32 +28.00%	33 +32.00%	27 +8.00%	27 +8.00%	29 +16.00%	25 +0.00%	30 +20.00%	27 +8.00%	27 +8.00%	26 +4.00%	26 +4.00%
1	27 -6.90%	32 +10.34%	34 +17.24%	30 +3.45%	28 -3.45%	29 +0.00%	26 -10.34%	31 +6.90%	28 -3.45%	28 -3.45%	27 -6.90%
2	29 +3.57%	27 -3.57%	33 +17.86%	33 +17.86%	28 +0.00%	28 +0.00%	29 +3.57%	26 -7.14%	31 +10.71%	28 +0.00%	28 +0.00%
3	27 -12.90%	27 -12.90%	26 -16.13%	33 +6.45%	28 -9.68%	31 +0.00%	27 -12.90%	28 -9.68%	25 -19.35%	30 -3.23%	27 -12.90%
4	33 +13.79%	30 +3.45%	27 -6.90%	23 -20.69%	30 +3.45%	29 +0.00%	31 +6.90%	27 -6.90%	28 -3.45%	25 -13.79%	30 +3.45%
5	28 +3.70%	34 +25.93%	30 +11.11%	27 +0.00%	25 -7.41%	27 +0.00%	29 +7.41%	31 +14.81%	27 +0.00%	28 +3.70%	25 -7.41%
6	28 +0.00%	31 +10.71%	34 +21.43%	27 -3.57%	28 +0.00%	28 +0.00%	28 +0.00%	30 +7.14%	32 +14.29%	28 +0.00%	29 +3.57%
7	39 +50.00%	29 +11.54%	29 +11.54%	34 +30.77%	24 -7.69%	26 +0.00%	27 +3.85%	27 +3.85%	29 +11.54%	31 +19.23%	27 +3.85%
8	45 +80.00%	32 +28.00%	33 +32.00%	26 +4.00%	33 +32.00%	25 +0.00%	25 +0.00%	26 +4.00%	26 +4.00%	28 +12.00%	30 +20.00%
9	43 +30.30%	45 +36.36%	39 +18.18%	38 +15.15%	27 -18.18%	33 +0.00%	27 -18.18%	27 -18.18%	28 -15.15%	28 -15.15%	30 -9.09%
10	56 +100.00%	40 +42.86%	46 +64.29%	34 +21.43%	31 +10.71%	28 +0.00%	31 +10.71%	25 -10.71%	25 -10.71%	26 -7.14%	26 -7.14%
11	49 +58.06%	53 +70.97%	42 +35.48%	38 +22.58%	34 +9.68%	31 +0.00%	27 -12.90%	30 -3.23%	24 -22.58%	24 -22.58%	25 -19.35%
12	51 +45.71%	48 +37.14%	56 +60.00%	36 +2.86%	43 +22.86%	35 +0.00%	31 -11.43%	27 -22.86%	30 -14.29%	24 -31.43%	24 -31.43%

K-5	176 +4.14%	183 +8.28%	177 +4.73%	173 +2.37%	168 -0.59%	169 +0.00%	172 +1.78%	170 +0.59%	166 -1.78%	165 -2.37%	163 -3.55%
6-8	112 +41.77%	92 +16.46%	96 +21.52%	87 +10.13%	85 +7.59%	79 +0.00%	80 +1.27%	83 +5.06%	87 +10.13%	87 +10.13%	86 +8.86%
9-12	199 +56.69%	186 +46.46%	183 +44.09%	146 +14.96%	135 +6.30%	127 +0.00%	116 -8.66%	109 -14.17%	107 -15.75%	102 -19.69%	105 -17.32%
K-12	487 +29.87%	461 +22.93%	456 +21.60%	406 +8.27%	388 +3.47%	375 +0.00%	368 -1.87%	362 -3.47%	360 -4.00%	354 -5.60%	354 -5.60%

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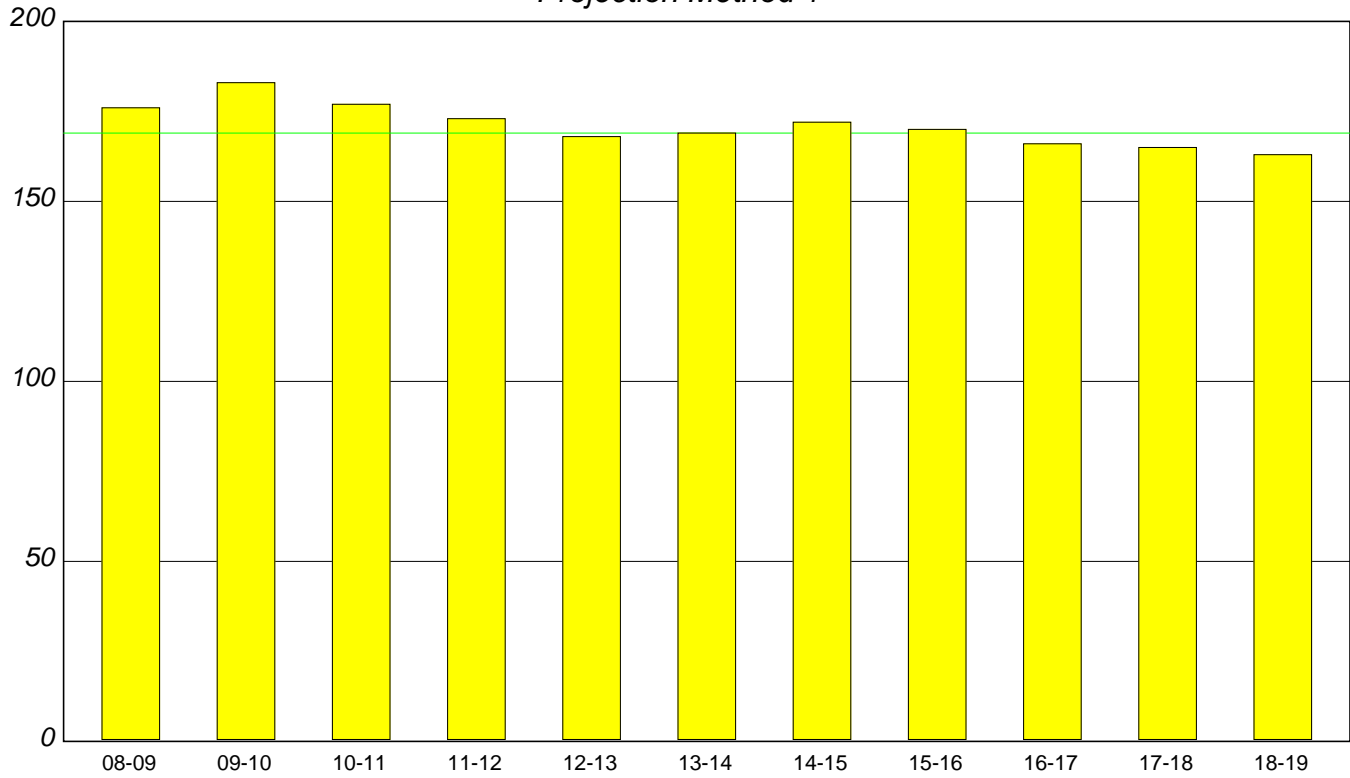
Table 4 - Enrollment Projected Ten Years
Method 1

GRADE	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
K	30	27	27	26	26	0	0	0	0	0
1	26	31	28	28	27	27	0	0	0	0
2	29	26	31	28	28	27	27	0	0	0
3	27	28	25	30	27	27	26	26	0	0
4	31	27	28	25	30	27	27	26	26	0
5	29	31	27	28	25	30	27	27	26	26
6	28	30	32	28	29	26	31	28	28	27
7	27	27	29	31	27	28	25	30	27	27
8	25	26	26	28	30	26	27	24	29	26
9	27	27	28	28	30	32	28	29	26	31
10	31	25	25	26	26	28	30	26	27	24
11	27	30	24	24	25	25	27	29	25	26
12	31	27	30	24	24	25	25	27	29	25

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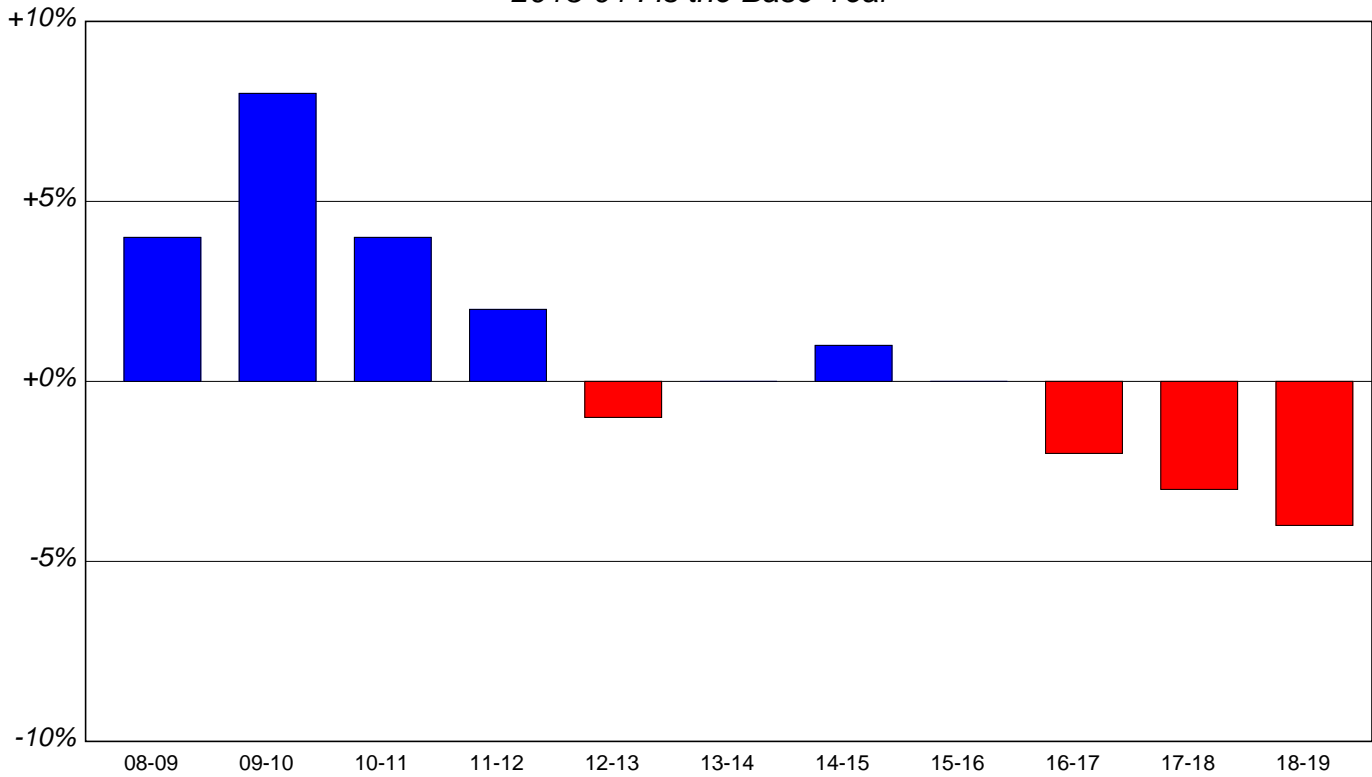
Graph 1-A: K-5 Enrollment 2008-2019

Projection Method 1



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

2013-014 is the Base Year



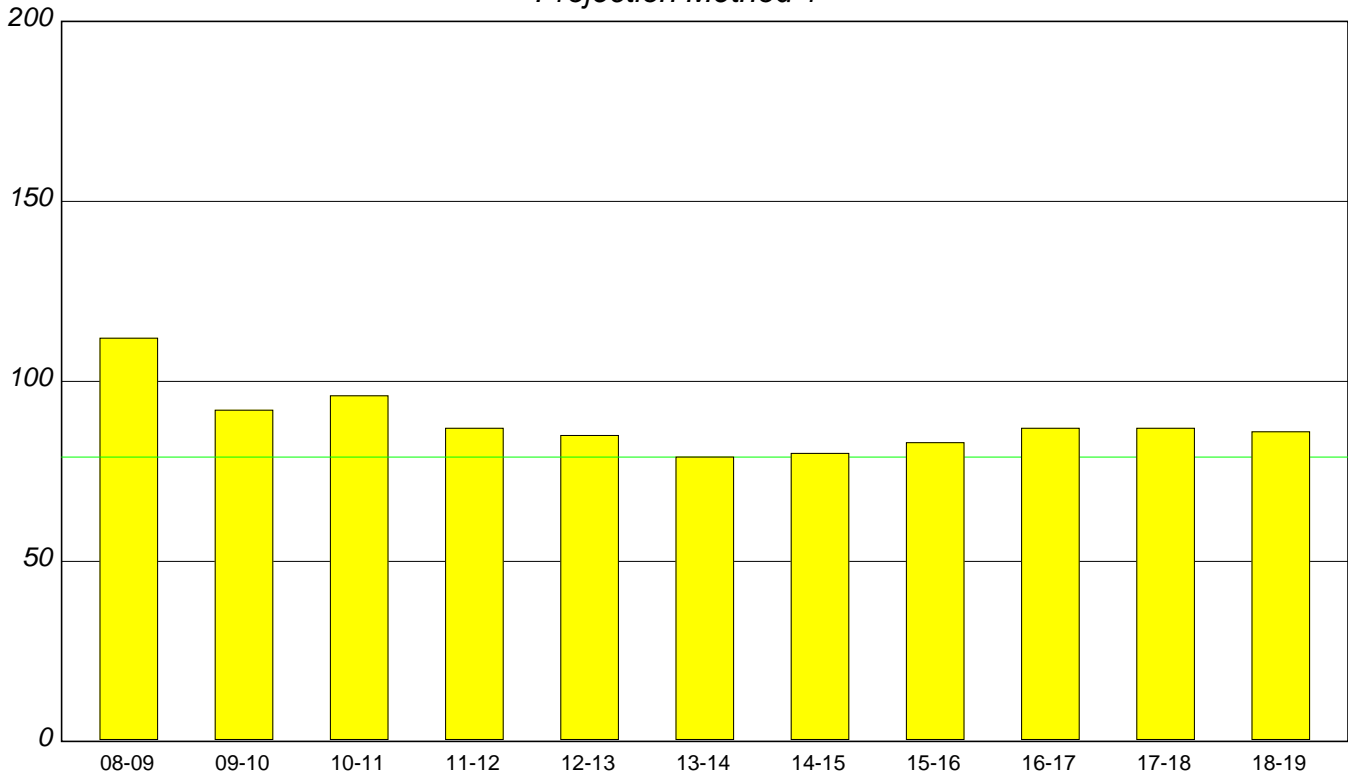
NOTE:

See Table 3 for specific enrollment numbers

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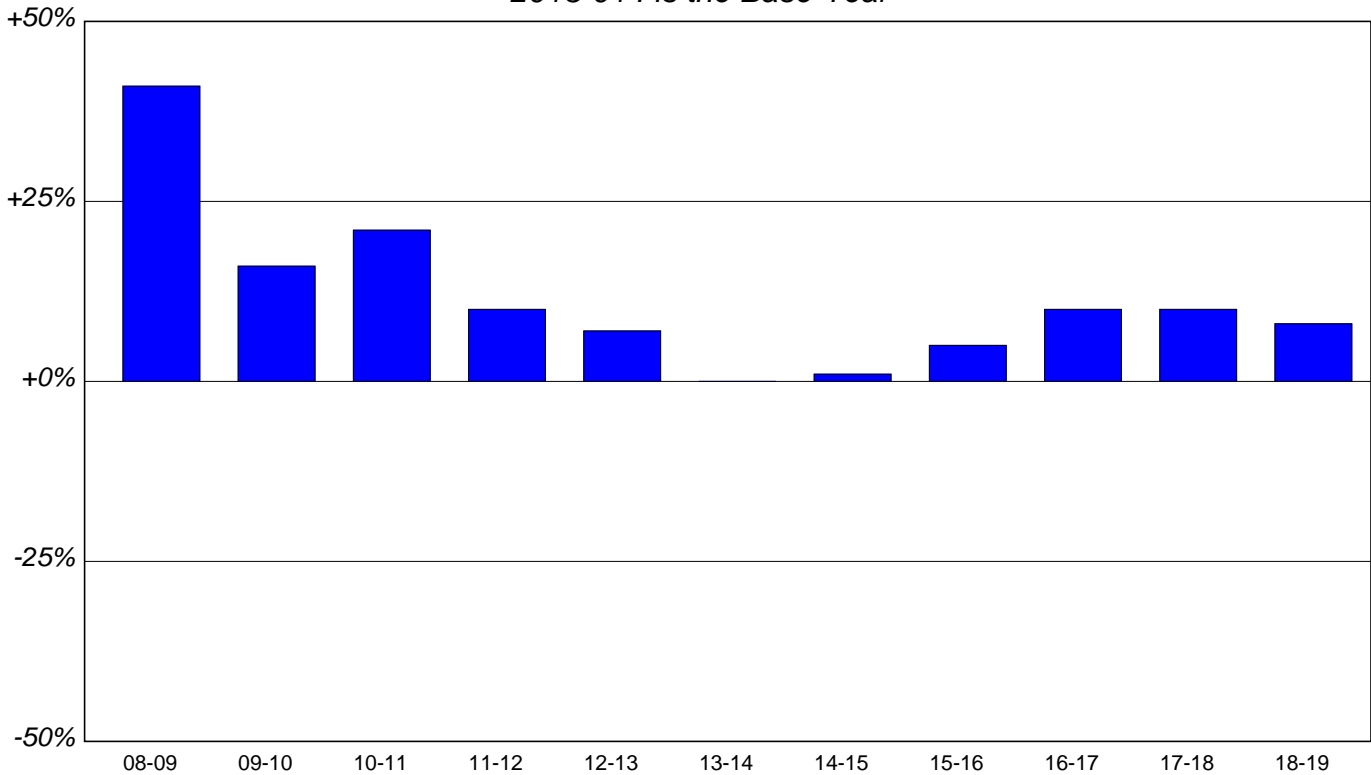
Graph 2-A: 6-8 Enrollment 2008-2019

Projection Method 1



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

2013-014 is the Base Year



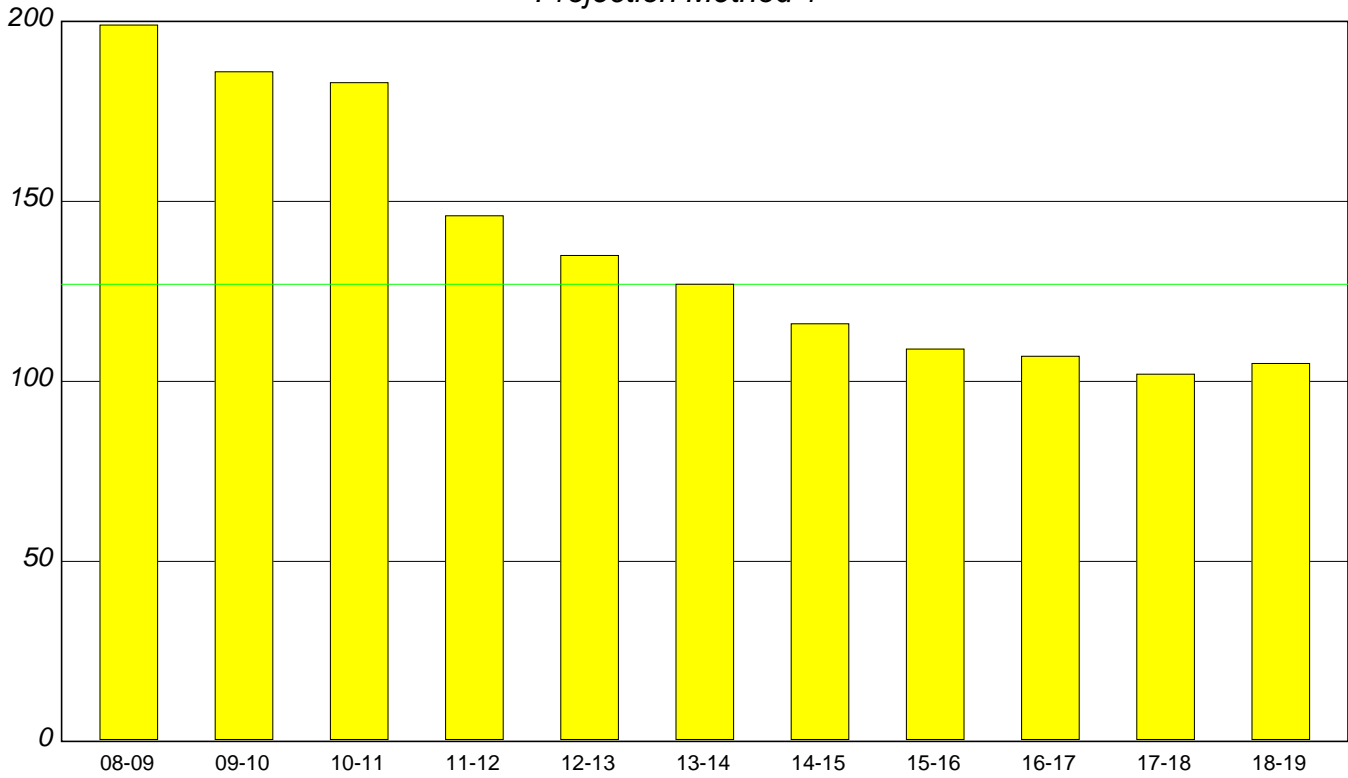
NOTE:

See Table 3 for specific enrollment numbers

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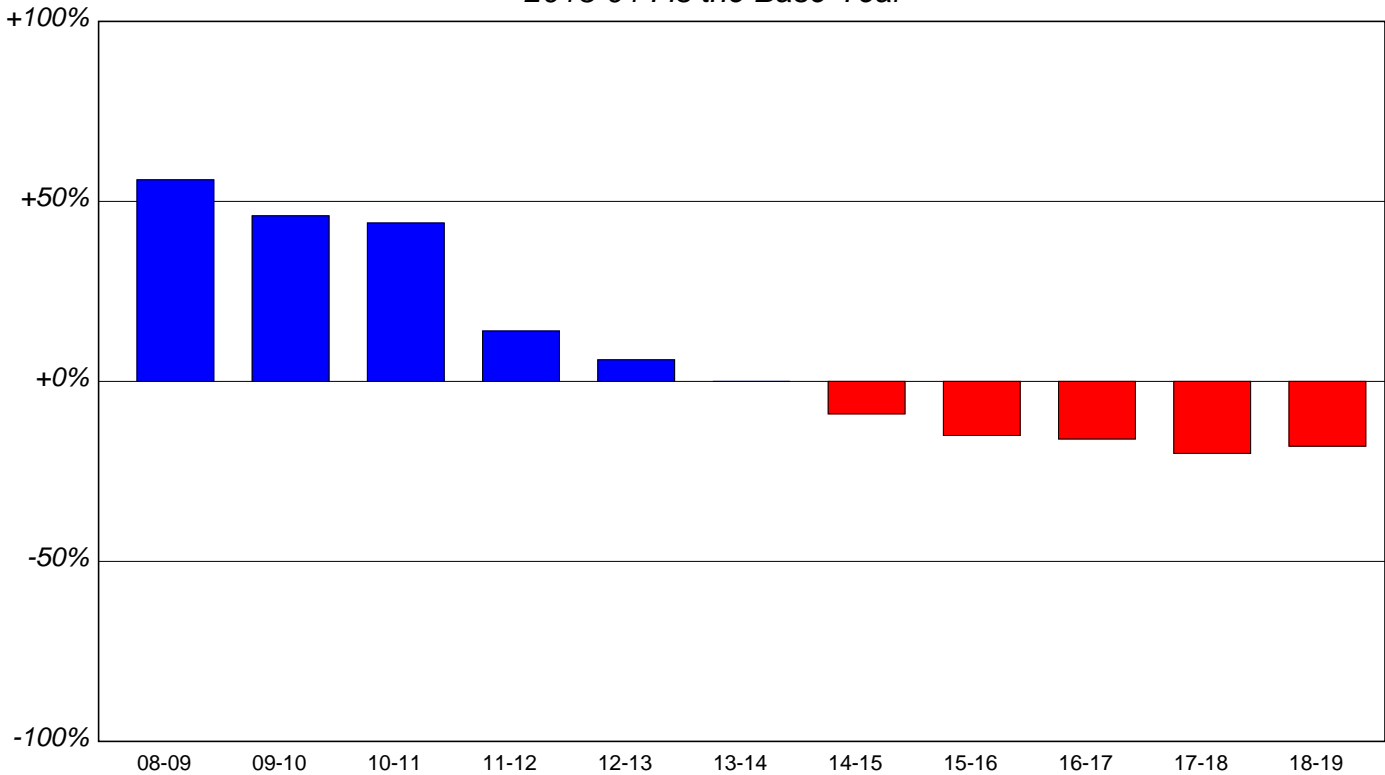
Graph 3-A: 9-12 Enrollment 2008-2019

Projection Method 1



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

2013-014 is the Base Year



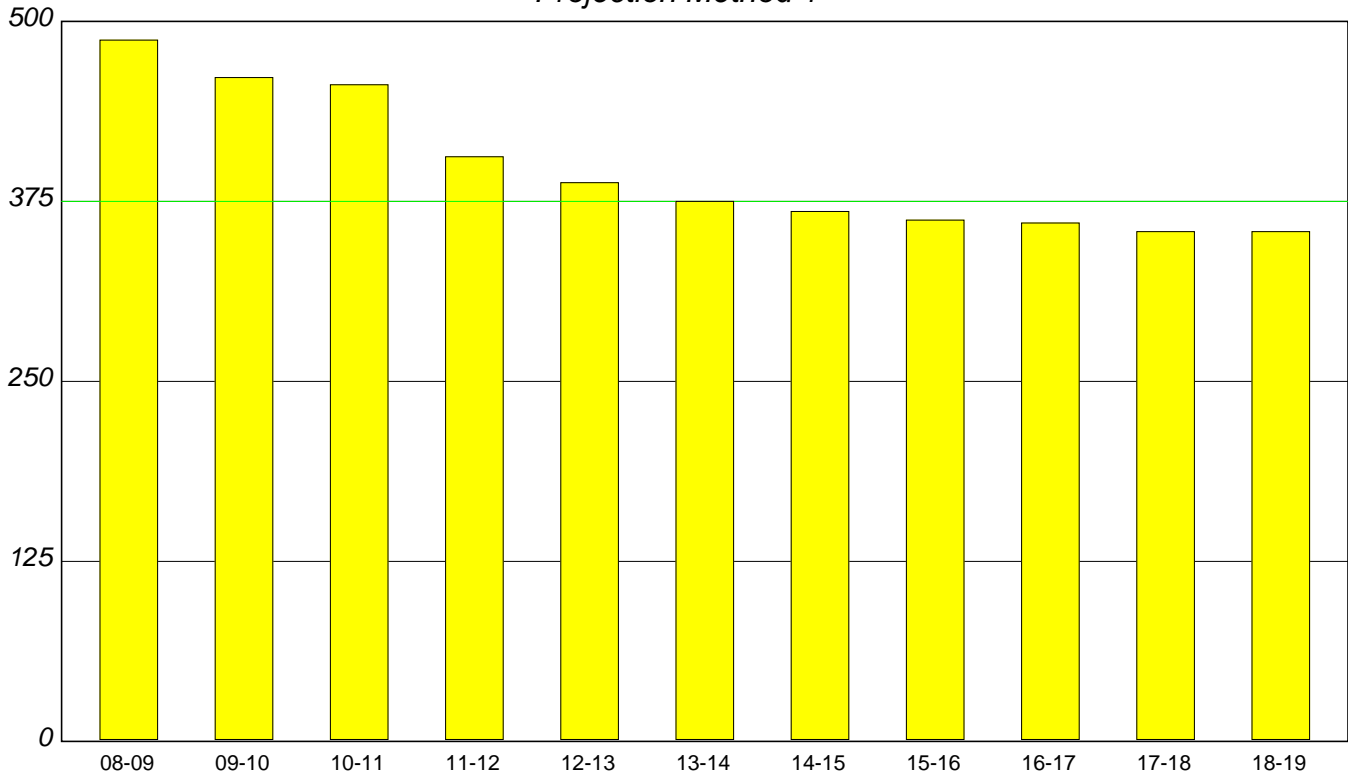
NOTE:

See Table 3 for specific enrollment numbers

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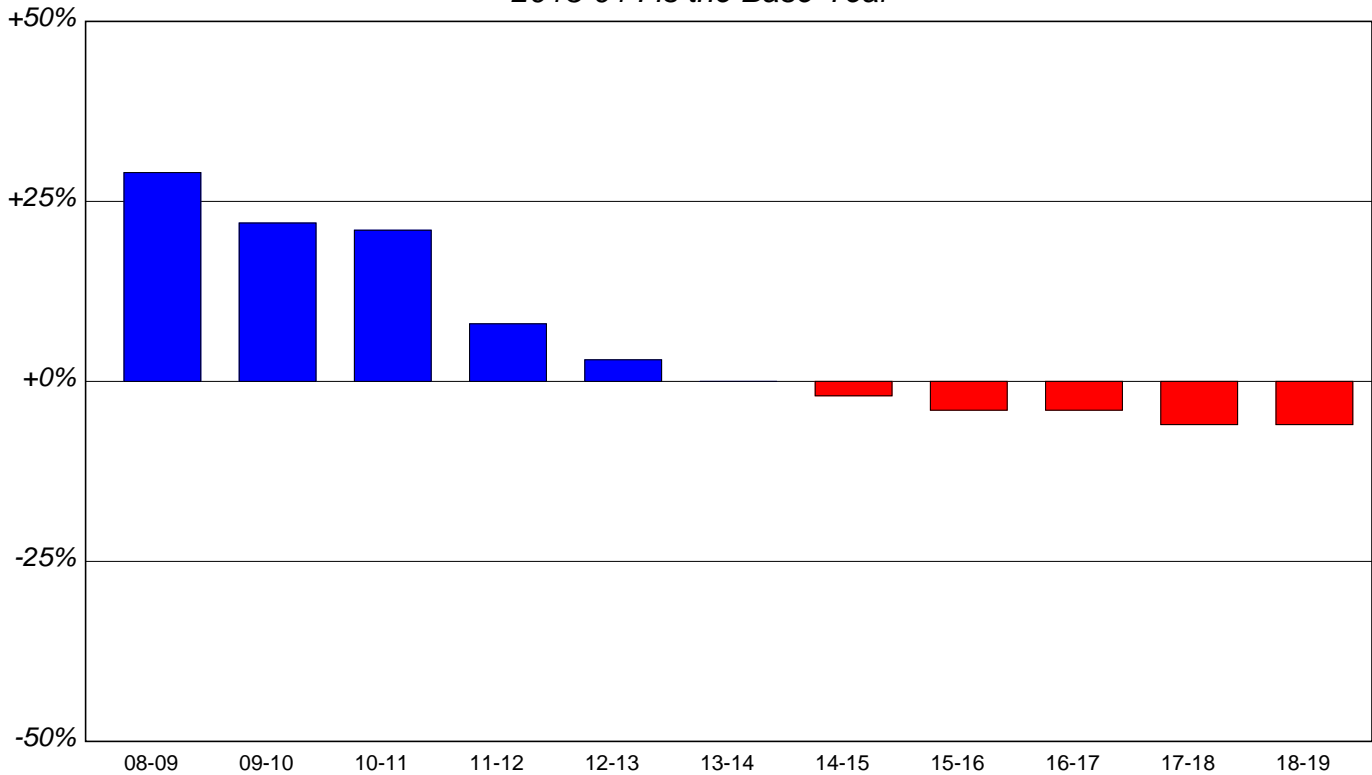
Graph 4-A: K-12 Enrollment 2008-2019

Projection Method 1



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

2013-014 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	2014-15	2015-16	2016-17	2017-18	2018-19
K	29 <i>7.12</i>	26 <i>7.12</i>	26 <i>7.12</i>	26 <i>7.12</i>	25 <i>7.12</i>
1	25 <i>100.00</i>	29 <i>100.00</i>	26 <i>100.00</i>	26 <i>100.00</i>	26 <i>100.00</i>
2	29 <i>100.00</i>	25 <i>100.00</i>	29 <i>100.00</i>	26 <i>100.00</i>	26 <i>100.00</i>
3	31 <i>110.71</i>	32 <i>110.71</i>	28 <i>110.71</i>	32 <i>110.71</i>	29 <i>110.71</i>
4	32 <i>103.57</i>	32 <i>103.57</i>	33 <i>103.57</i>	29 <i>103.57</i>	33 <i>103.57</i>
5	26 <i>90.00</i>	29 <i>90.00</i>	29 <i>90.00</i>	30 <i>90.00</i>	26 <i>90.00</i>
6	30 <i>112.00</i>	29 <i>112.00</i>	32 <i>112.00</i>	32 <i>112.00</i>	34 <i>112.00</i>
7	26 <i>92.86</i>	28 <i>92.86</i>	27 <i>92.86</i>	30 <i>92.86</i>	30 <i>92.86</i>
8	27 <i>104.17</i>	27 <i>104.17</i>	29 <i>104.17</i>	28 <i>104.17</i>	31 <i>104.17</i>
9	25 <i>100.00</i>	27 <i>100.00</i>	27 <i>100.00</i>	29 <i>100.00</i>	28 <i>100.00</i>
10	34 <i>103.70</i>	26 <i>103.70</i>	28 <i>103.70</i>	28 <i>103.70</i>	30 <i>103.70</i>
11	28 <i>100.00</i>	34 <i>100.00</i>	26 <i>100.00</i>	28 <i>100.00</i>	28 <i>100.00</i>
12	32 <i>102.94</i>	29 <i>102.94</i>	35 <i>102.94</i>	27 <i>102.94</i>	29 <i>102.94</i>

K-5	172	173	171	169	165
6-8	83	84	88	90	95
9-12	119	116	116	112	115
K-12	374	373	375	371	375

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Table 6 - Comparison of Past and Projected Enrollments Method 2

GRADE	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
K	32 +28.00%	33 +32.00%	27 +8.00%	27 +8.00%	29 +16.00%	25 +0.00%	29 +16.00%	26 +4.00%	26 +4.00%	26 +4.00%	25 +0.00%
1	27 -6.90%	32 +10.34%	34 +17.24%	30 +3.45%	28 -3.45%	29 +0.00%	25 -13.79%	29 +0.00%	26 -10.34%	26 -10.34%	26 -10.34%
2	29 +3.57%	27 -3.57%	33 +17.86%	33 +17.86%	28 +0.00%	28 +0.00%	29 +3.57%	25 -10.71%	29 +3.57%	26 -7.14%	26 -7.14%
3	27 -12.90%	27 -12.90%	26 -16.13%	33 +6.45%	28 -9.68%	31 +0.00%	31 +0.00%	32 +3.23%	28 -9.68%	32 +3.23%	29 -6.45%
4	33 +13.79%	30 +3.45%	27 -6.90%	23 -20.69%	30 +3.45%	29 +0.00%	32 +10.34%	32 +10.34%	33 +13.79%	29 +0.00%	33 +13.79%
5	28 +3.70%	34 +25.93%	30 +11.11%	27 +0.00%	25 -7.41%	27 +0.00%	26 -3.70%	29 +7.41%	29 +7.41%	30 +11.11%	26 -3.70%
6	28 +0.00%	31 +10.71%	34 +21.43%	27 -3.57%	28 +0.00%	28 +0.00%	30 +7.14%	29 +3.57%	32 +14.29%	32 +14.29%	34 +21.43%
7	39 +50.00%	29 +11.54%	29 +11.54%	34 +30.77%	24 -7.69%	26 +0.00%	26 +0.00%	28 +7.69%	27 +3.85%	30 +15.38%	30 +15.38%
8	45 +80.00%	32 +28.00%	33 +32.00%	26 +4.00%	33 +32.00%	25 +0.00%	27 +8.00%	27 +8.00%	29 +16.00%	28 +12.00%	31 +24.00%
9	43 +30.30%	45 +36.36%	39 +18.18%	38 +15.15%	27 -18.18%	33 +0.00%	25 -24.24%	27 -18.18%	27 -18.18%	29 -12.12%	28 -15.15%
10	56 +100.00%	40 +42.86%	46 +64.29%	34 +21.43%	31 +10.71%	28 +0.00%	34 +21.43%	26 -7.14%	28 +0.00%	28 +0.00%	30 +7.14%
11	49 +58.06%	53 +70.97%	42 +35.48%	38 +22.58%	34 +9.68%	31 +0.00%	28 -9.68%	34 +9.68%	26 -16.13%	28 -9.68%	28 -9.68%
12	51 +45.71%	48 +37.14%	56 +60.00%	36 +2.86%	43 +22.86%	35 +0.00%	32 -8.57%	29 -17.14%	35 +0.00%	27 -22.86%	29 -17.14%

K-5	176 +4.14%	183 +8.28%	177 +4.73%	173 +2.37%	168 -0.59%	169 +0.00%	172 +1.78%	173 +2.37%	171 +1.18%	169 +0.00%	165 -2.37%
6-8	112 +41.77%	92 +16.46%	96 +21.52%	87 +10.13%	85 +7.59%	79 +0.00%	83 +5.06%	84 +6.33%	88 +11.39%	90 +13.92%	95 +20.25%
9-12	199 +56.69%	186 +46.46%	183 +44.09%	146 +14.96%	135 +6.30%	127 +0.00%	119 -6.30%	116 -8.66%	116 -8.66%	112 -11.81%	115 -9.45%
K-12	487 +29.87%	461 +22.93%	456 +21.60%	406 +8.27%	388 +3.47%	375 +0.00%	374 -0.27%	373 -0.53%	375 +0.00%	371 -1.07%	375 +0.00%

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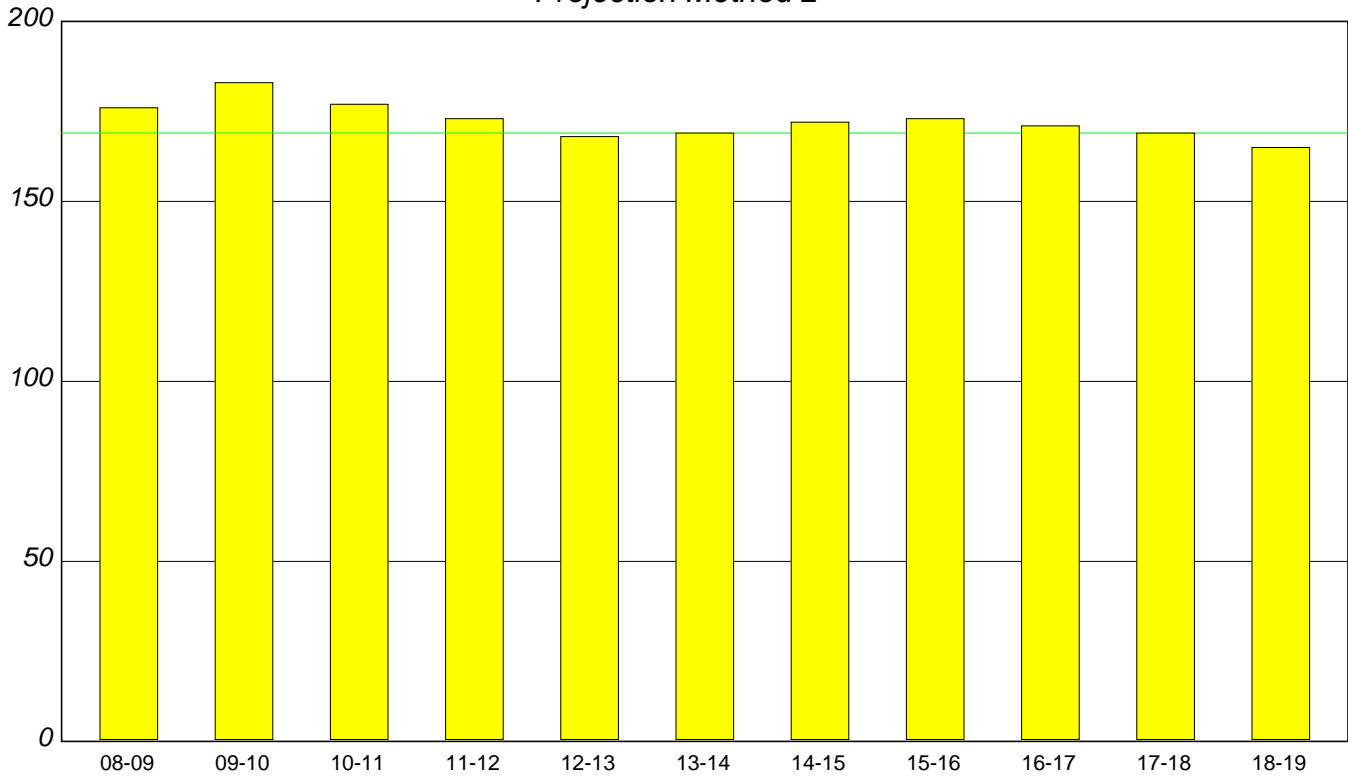
Table 7 - Enrollment Projected Ten Years Method 2

GRADE	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
K	29	26	26	26	25	0	0	0	0	0
1	25	29	26	26	26	25	0	0	0	0
2	29	25	29	26	26	26	25	0	0	0
3	31	32	28	32	29	29	29	28	0	0
4	32	32	33	29	33	30	30	30	29	0
5	26	29	29	30	26	30	27	27	27	26
6	30	29	32	32	34	29	34	30	30	30
7	26	28	27	30	30	32	27	32	28	28
8	27	27	29	28	31	31	33	28	33	29
9	25	27	27	29	28	31	31	33	28	33
10	34	26	28	28	30	29	32	32	34	29
11	28	34	26	28	28	30	29	32	32	34
12	32	29	35	27	29	29	31	30	33	33

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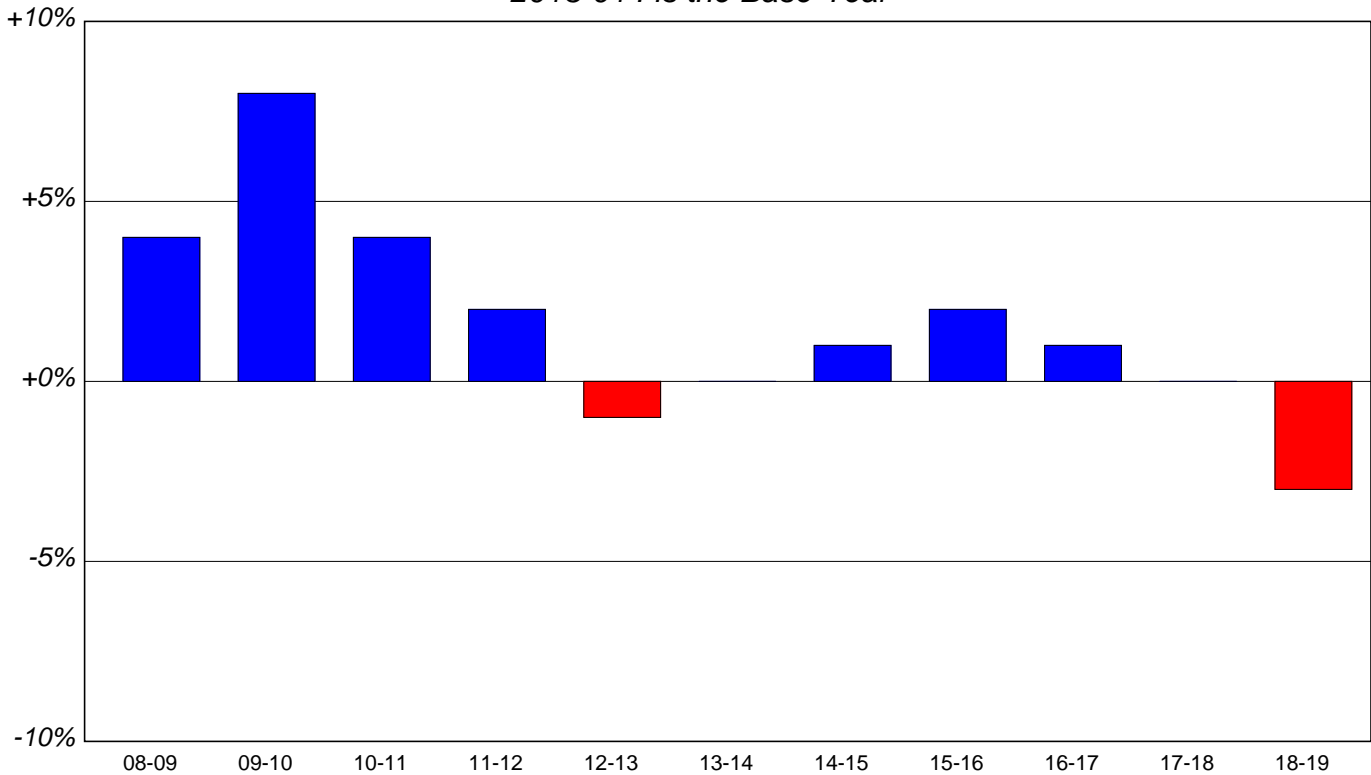
Graph 5-A: K-5 Enrollment 2008-2019

Projection Method 2



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

2013-014 is the Base Year



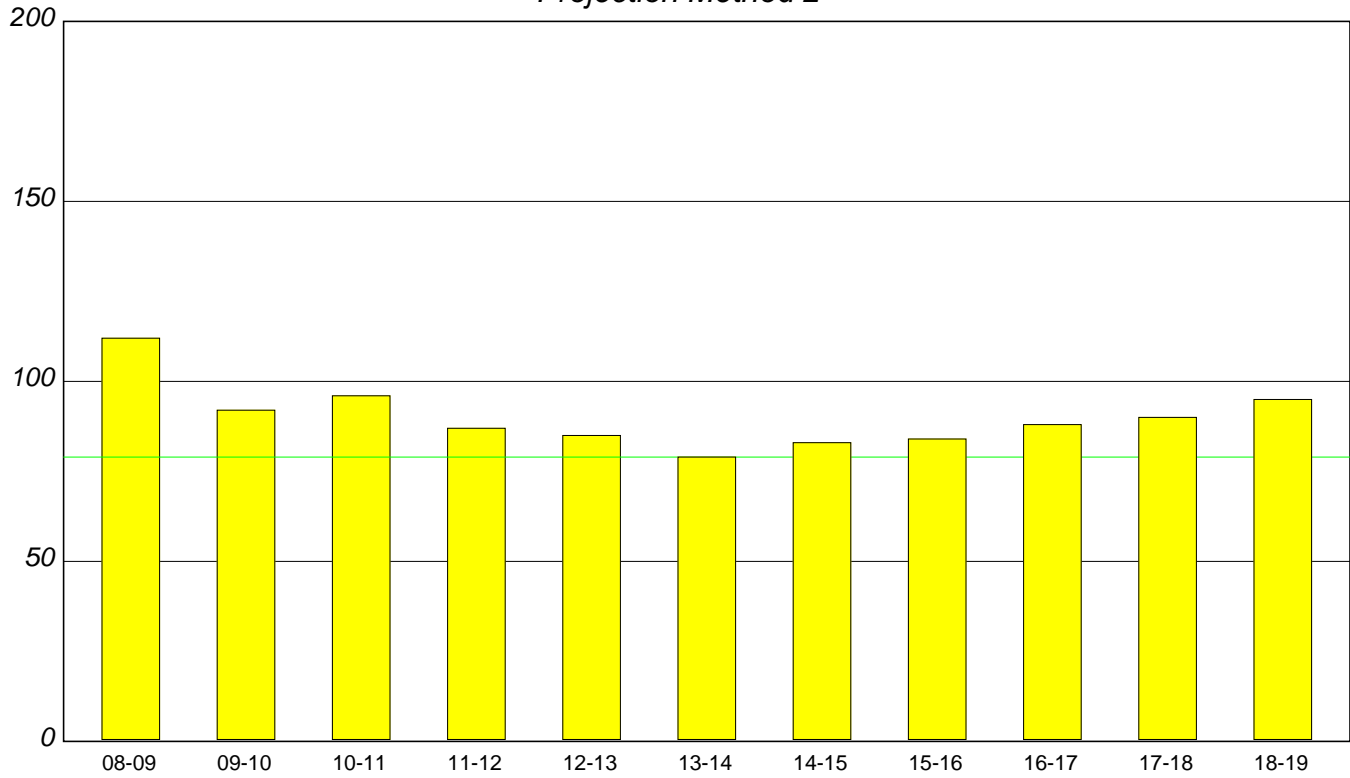
NOTE:

See Table 6 for specific enrollment numbers

Suring Public School District

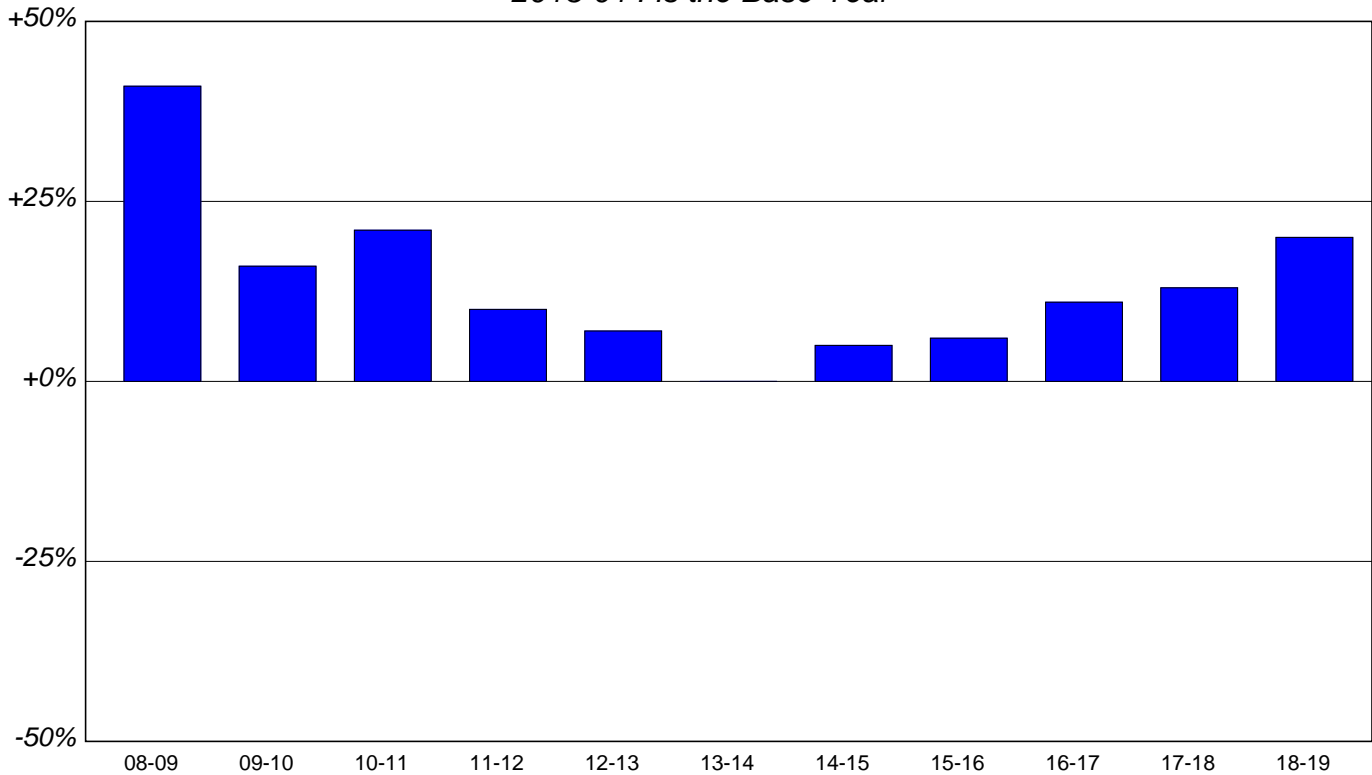
Graph 6-A: 6-8 Enrollment 2008-2019

Projection Method 2



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

2013-014 is the Base Year



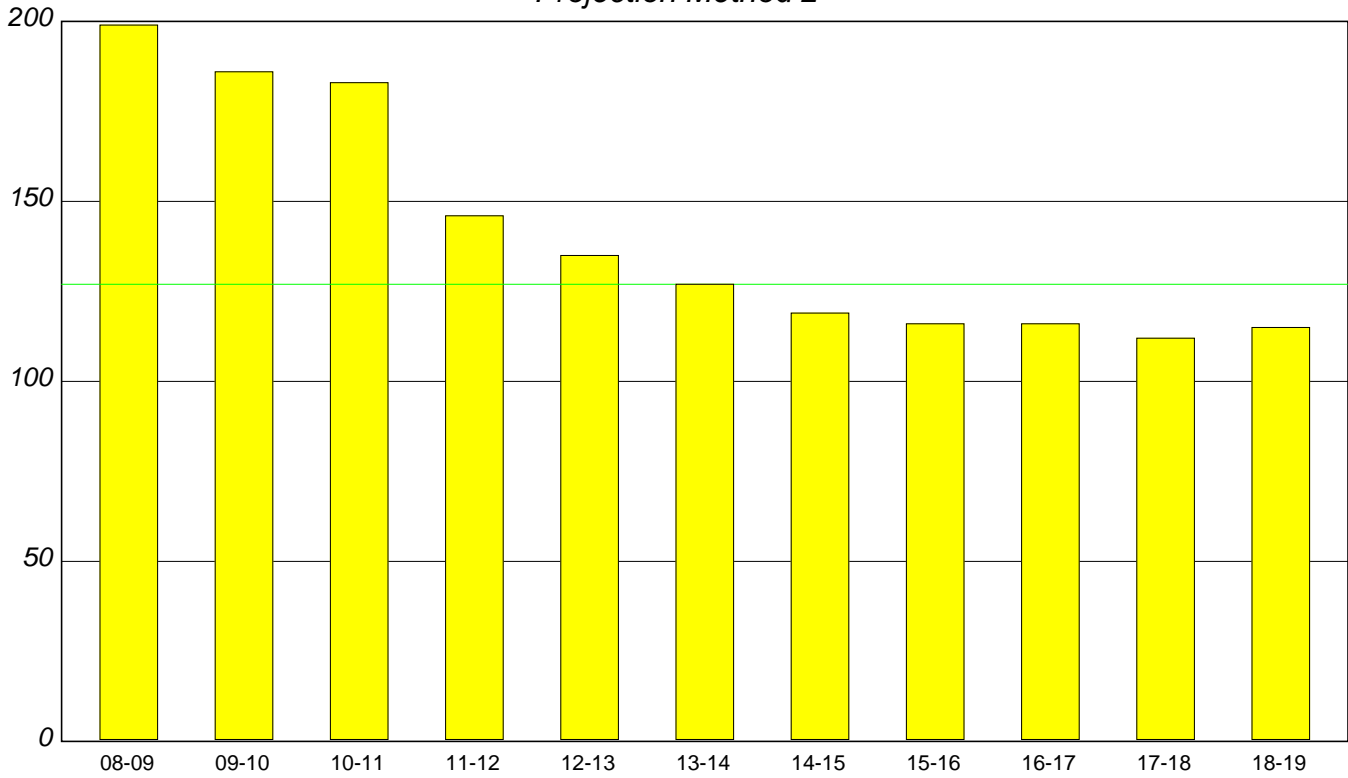
NOTE:

See Table 6 for specific enrollment numbers

Suring Public School District

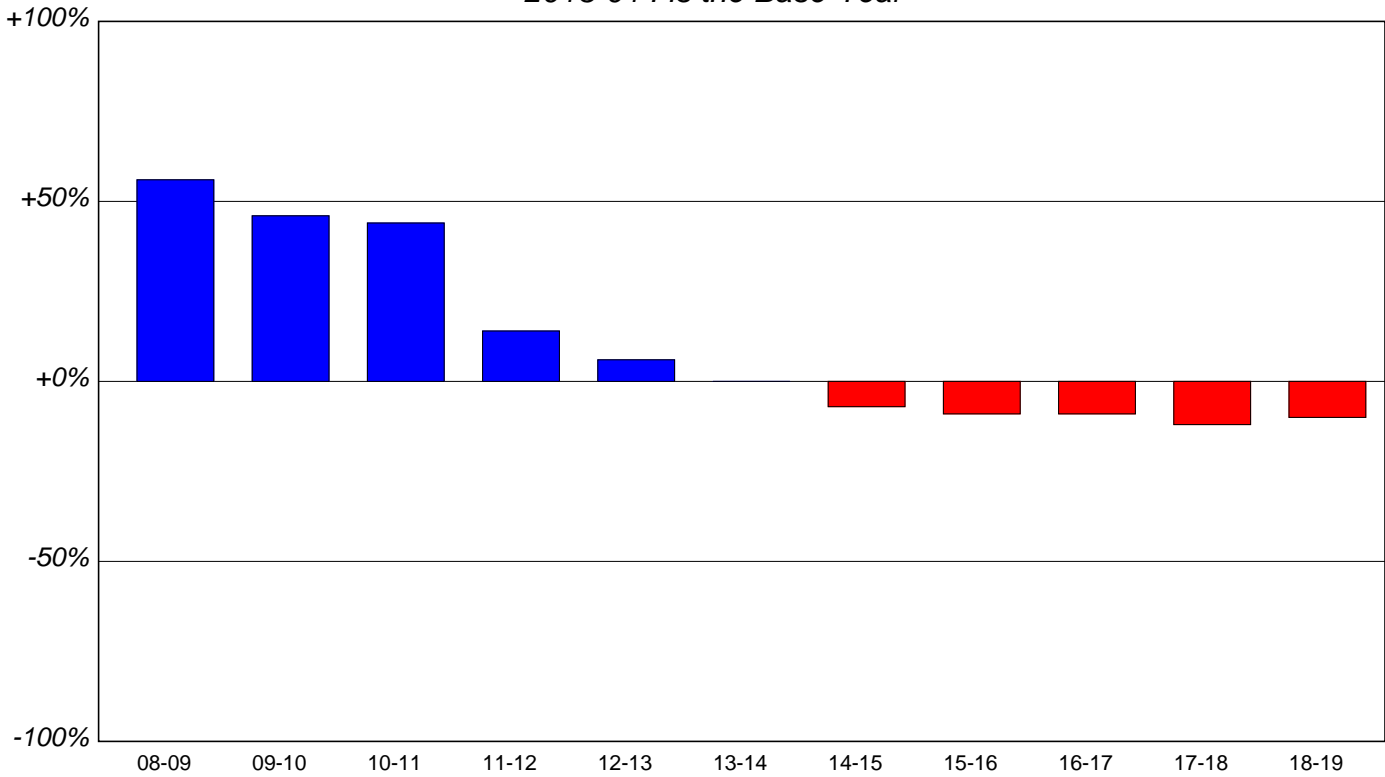
Graph 7-A: 9-12 Enrollment 2008-2019

Projection Method 2



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

2013-014 is the Base Year



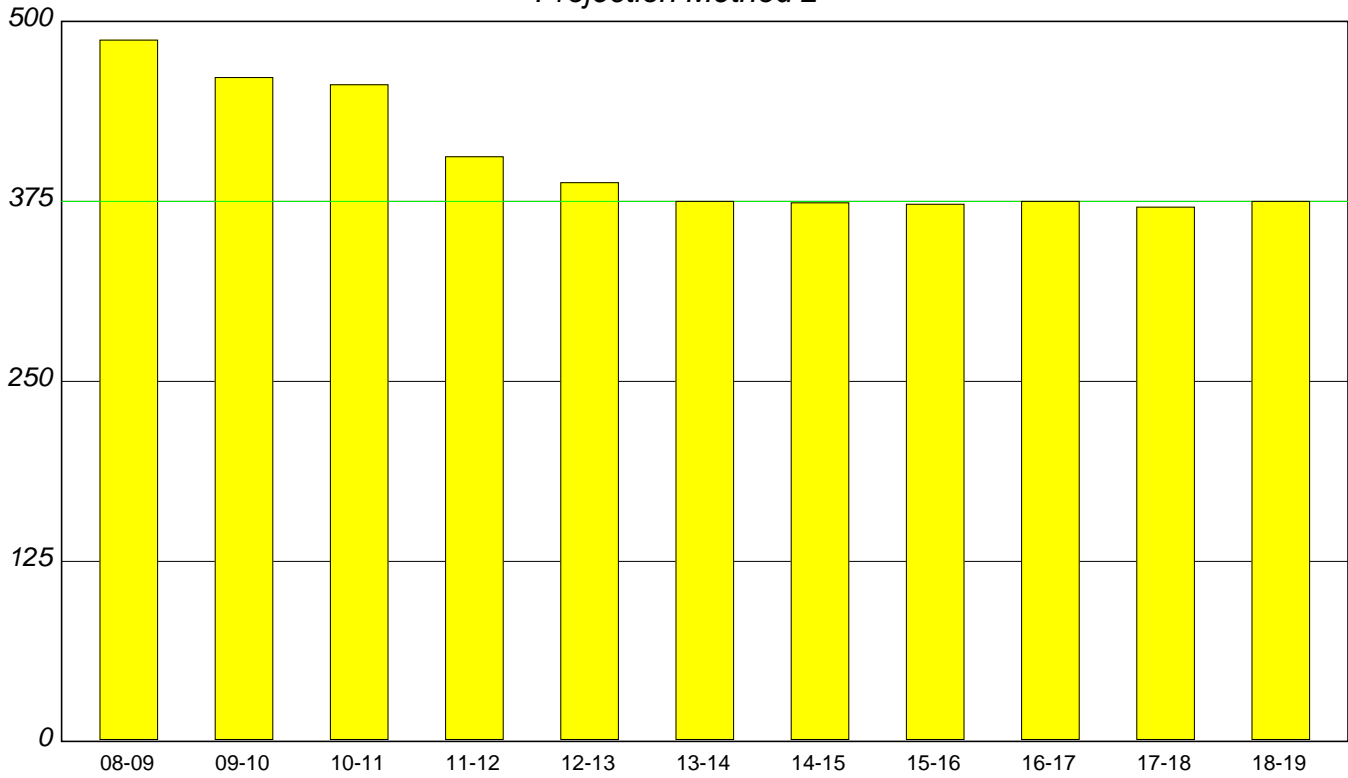
NOTE:

See Table 6 for specific enrollment numbers

Suring Public School District

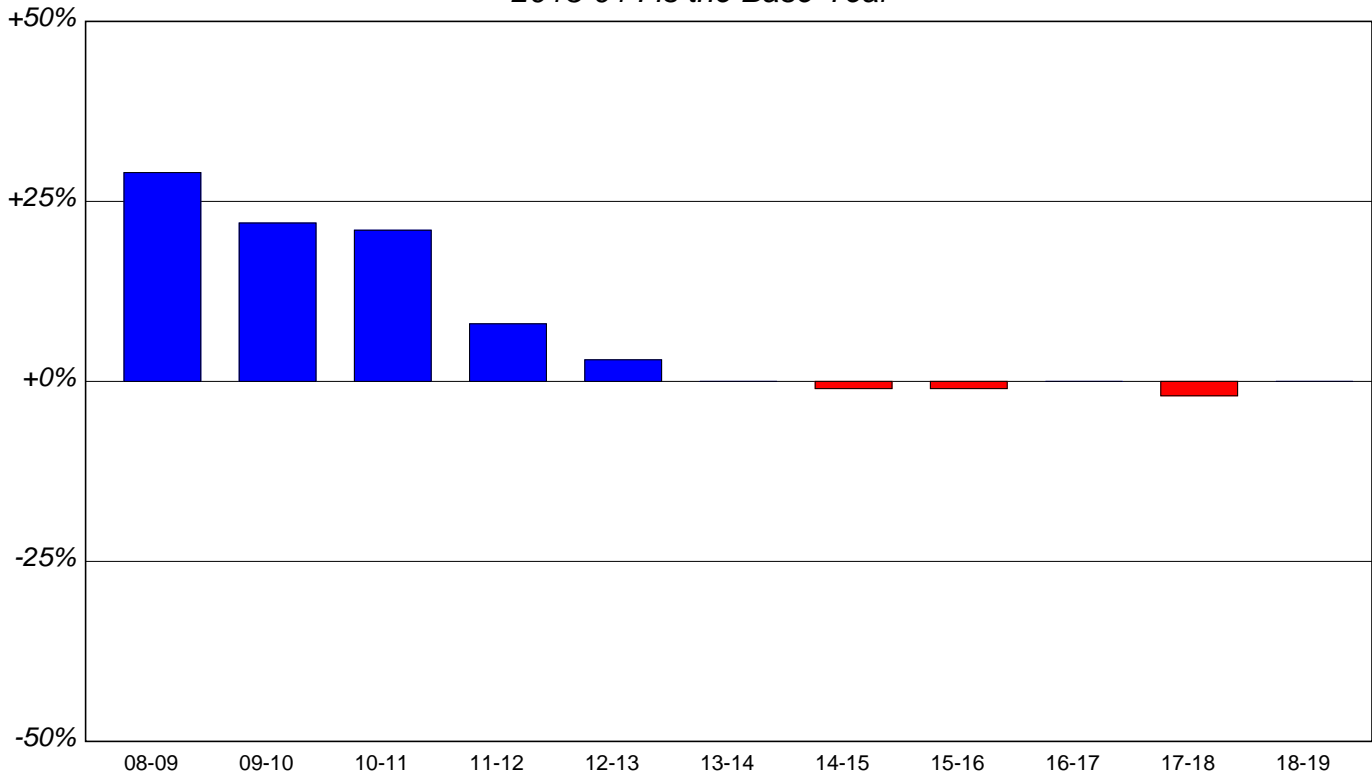
Graph 8-A: K-12 Enrollment 2008-2019

Projection Method 2



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

2013-014 is the Base Year



NOTE:

See Table 6 for specific enrollment numbers

Suring Public School District

Table 8 - Enrollment Projected Five Years
Method 3

GRADE	2014-15	2015-16	2016-17	2017-18	2018-19
K	30 <i>7.20</i>	26 <i>7.20</i>	26 <i>7.20</i>	26 <i>7.20</i>	26 <i>7.20</i>
1	25 <i>101.78</i>	31 <i>101.78</i>	26 <i>101.78</i>	26 <i>101.78</i>	26 <i>101.78</i>
2	29 <i>99.35</i>	25 <i>99.35</i>	31 <i>99.35</i>	26 <i>99.35</i>	26 <i>99.35</i>
3	29 <i>103.85</i>	30 <i>103.85</i>	26 <i>103.85</i>	32 <i>103.85</i>	27 <i>103.85</i>
4	31 <i>101.19</i>	29 <i>101.19</i>	30 <i>101.19</i>	26 <i>101.19</i>	32 <i>101.19</i>
5	28 <i>95.17</i>	30 <i>95.17</i>	28 <i>95.17</i>	29 <i>95.17</i>	25 <i>95.17</i>
6	29 <i>107.64</i>	30 <i>107.64</i>	32 <i>107.64</i>	30 <i>107.64</i>	31 <i>107.64</i>
7	26 <i>94.32</i>	27 <i>94.32</i>	28 <i>94.32</i>	30 <i>94.32</i>	28 <i>94.32</i>
8	26 <i>100.76</i>	26 <i>100.76</i>	27 <i>100.76</i>	28 <i>100.76</i>	30 <i>100.76</i>
9	26 <i>104.09</i>	27 <i>104.09</i>	27 <i>104.09</i>	28 <i>104.09</i>	29 <i>104.09</i>
10	33 <i>98.62</i>	26 <i>98.62</i>	27 <i>98.62</i>	27 <i>98.62</i>	28 <i>98.62</i>
11	28 <i>98.23</i>	32 <i>98.23</i>	26 <i>98.23</i>	27 <i>98.23</i>	27 <i>98.23</i>
12	32 <i>102.01</i>	29 <i>102.01</i>	33 <i>102.01</i>	27 <i>102.01</i>	28 <i>102.01</i>

K-5	172	171	167	165	162
6-8	81	83	87	88	89
9-12	119	114	113	109	112
K-12	372	368	367	362	363

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Table 9 - Comparison of Past and Projected Enrollments Method 3

GRADE	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
K	32 +28.00%	33 +32.00%	27 +8.00%	27 +8.00%	29 +16.00%	25 +0.00%	30 +20.00%	26 +4.00%	26 +4.00%	26 +4.00%	26 +4.00%
1	27 -6.90%	32 +10.34%	34 +17.24%	30 +3.45%	28 -3.45%	29 +0.00%	25 -13.79%	31 +6.90%	26 -10.34%	26 -10.34%	26 -10.34%
2	29 +3.57%	27 -3.57%	33 +17.86%	33 +17.86%	28 +0.00%	28 +0.00%	29 +3.57%	25 -10.71%	31 +10.71%	26 -7.14%	26 -7.14%
3	27 -12.90%	27 -12.90%	26 -16.13%	33 +6.45%	28 -9.68%	31 +0.00%	29 -6.45%	30 -3.23%	26 -16.13%	32 +3.23%	27 -12.90%
4	33 +13.79%	30 +3.45%	27 -6.90%	23 -20.69%	30 +3.45%	29 +0.00%	31 +6.90%	29 +0.00%	30 +3.45%	26 -10.34%	32 +10.34%
5	28 +3.70%	34 +25.93%	30 +11.11%	27 +0.00%	25 -7.41%	27 +0.00%	28 +3.70%	30 +11.11%	28 +3.70%	29 +7.41%	25 -7.41%
6	28 +0.00%	31 +10.71%	34 +21.43%	27 -3.57%	28 +0.00%	28 +0.00%	29 +3.57%	30 +7.14%	32 +14.29%	30 +7.14%	31 +10.71%
7	39 +50.00%	29 +11.54%	29 +11.54%	34 +30.77%	24 -7.69%	26 +0.00%	26 +0.00%	27 +3.85%	28 +7.69%	30 +15.38%	28 +7.69%
8	45 +80.00%	32 +28.00%	33 +32.00%	26 +4.00%	33 +32.00%	25 +0.00%	26 +4.00%	26 +4.00%	27 +8.00%	28 +12.00%	30 +20.00%
9	43 +30.30%	45 +36.36%	39 +18.18%	38 +15.15%	27 -18.18%	33 +0.00%	26 -21.21%	27 -18.18%	27 -18.18%	28 -15.15%	29 -12.12%
10	56 +100.00%	40 +42.86%	46 +64.29%	34 +21.43%	31 +10.71%	28 +0.00%	33 +17.86%	26 -7.14%	27 -3.57%	27 -3.57%	28 +0.00%
11	49 +58.06%	53 +70.97%	42 +35.48%	38 +22.58%	34 +9.68%	31 +0.00%	28 -9.68%	32 +3.23%	26 -16.13%	27 -12.90%	27 -12.90%
12	51 +45.71%	48 +37.14%	56 +60.00%	36 +2.86%	43 +22.86%	35 +0.00%	32 -8.57%	29 -17.14%	33 -5.71%	27 -22.86%	28 -20.00%

K-5	176 +4.14%	183 +8.28%	177 +4.73%	173 +2.37%	168 -0.59%	169 +0.00%	172 +1.78%	171 +1.18%	167 -1.18%	165 -2.37%	162 -4.14%
6-8	112 +41.77%	92 +16.46%	96 +21.52%	87 +10.13%	85 +7.59%	79 +0.00%	81 +2.53%	83 +5.06%	87 +10.13%	88 +11.39%	89 +12.66%
9-12	199 +56.69%	186 +46.46%	183 +44.09%	146 +14.96%	135 +6.30%	127 +0.00%	119 -6.30%	114 -10.24%	113 -11.02%	109 -14.17%	112 -11.81%
K-12	487 +29.87%	461 +22.93%	456 +21.60%	406 +8.27%	388 +3.47%	375 +0.00%	372 -0.80%	368 -1.87%	367 -2.13%	362 -3.47%	363 -3.20%

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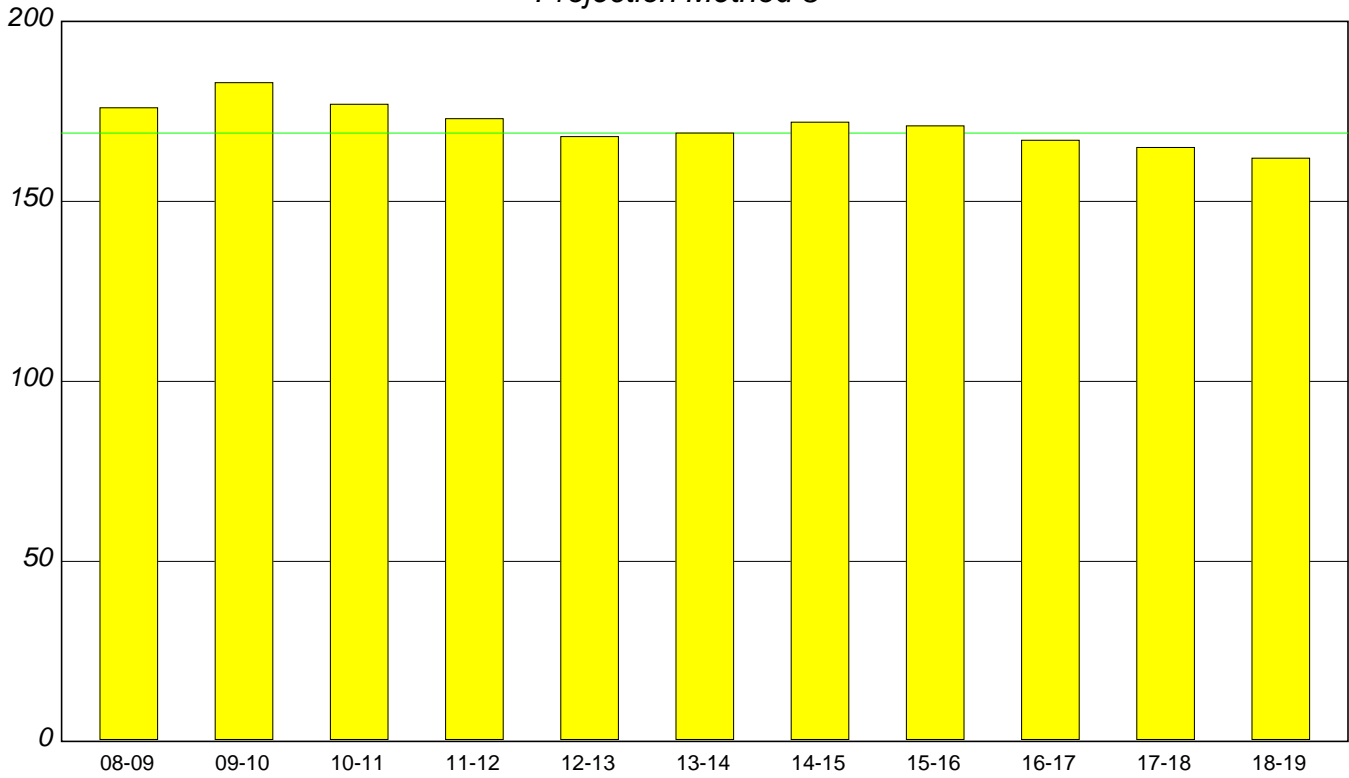
Table 10 - Enrollment Projected Ten Years
Method 3

GRADE	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
K	30	26	26	26	26	0	0	0	0	0
1	25	31	26	26	26	26	0	0	0	0
2	29	25	31	26	26	26	26	0	0	0
3	29	30	26	32	27	27	27	27	0	0
4	31	29	30	26	32	27	27	27	27	0
5	28	30	28	29	25	30	26	26	26	26
6	29	30	32	30	31	27	32	28	28	28
7	26	27	28	30	28	29	25	30	26	26
8	26	26	27	28	30	28	29	25	30	26
9	26	27	27	28	29	31	29	30	26	31
10	33	26	27	27	28	29	31	29	30	26
11	28	32	26	27	27	28	28	30	28	29
12	32	29	33	27	28	28	29	29	31	29

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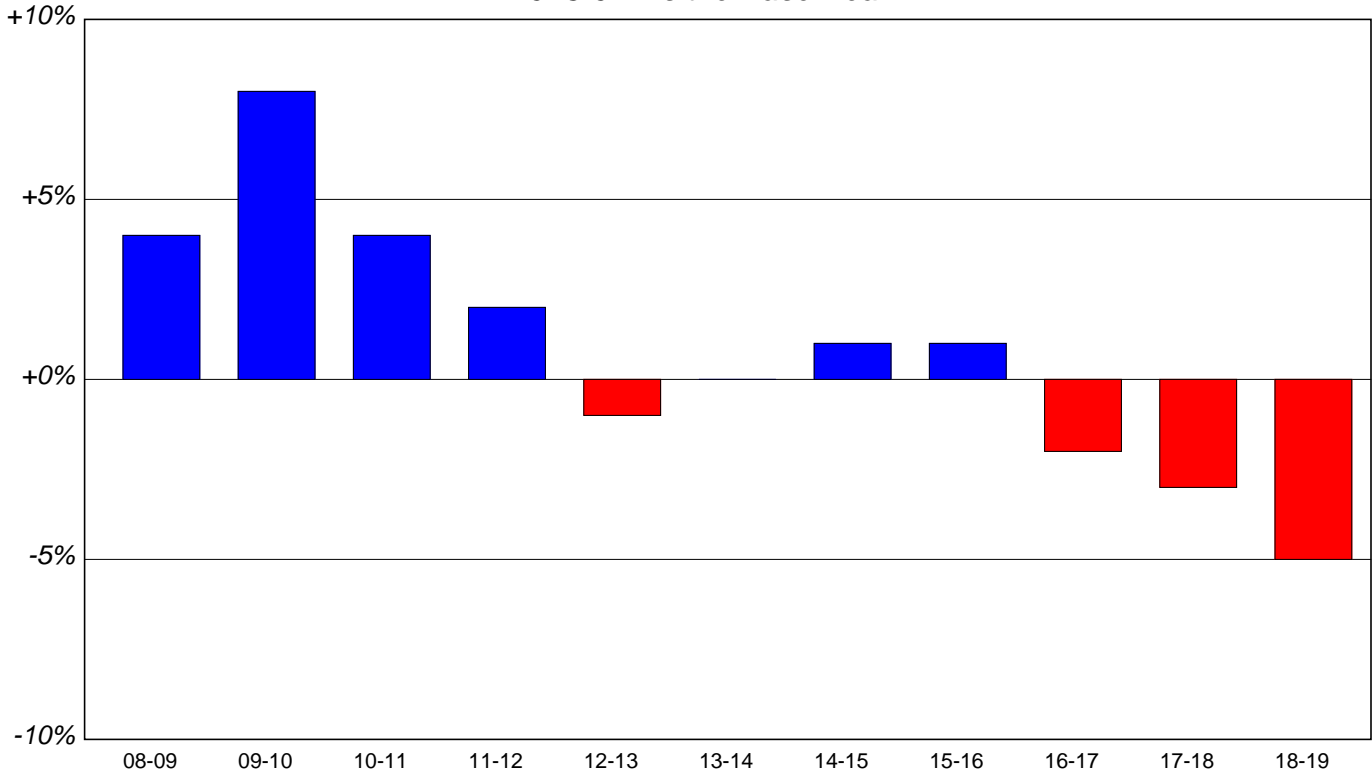
Graph 9-A: K-5 Enrollment 2008-2019

Projection Method 3



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

2013-014 is the Base Year



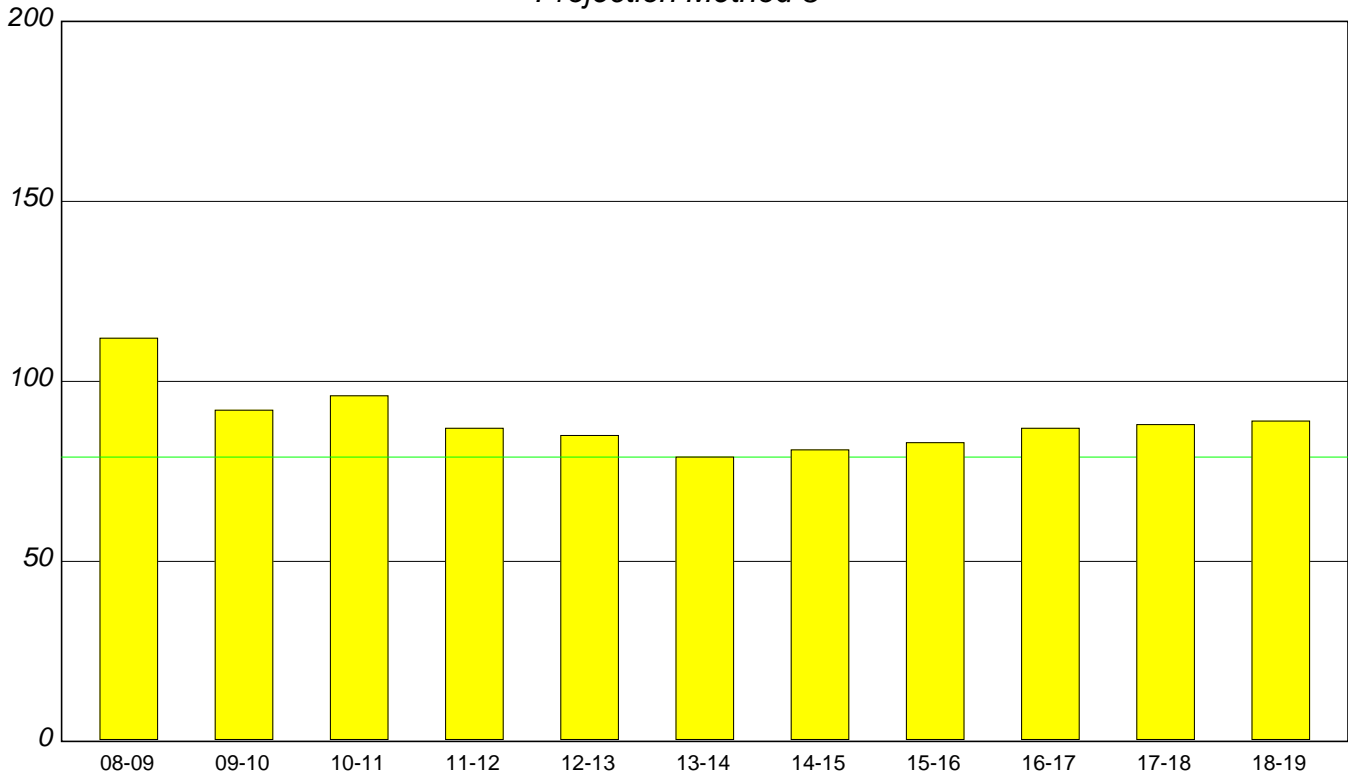
NOTE:

See Table 9 for specific enrollment numbers

Suring Public School District

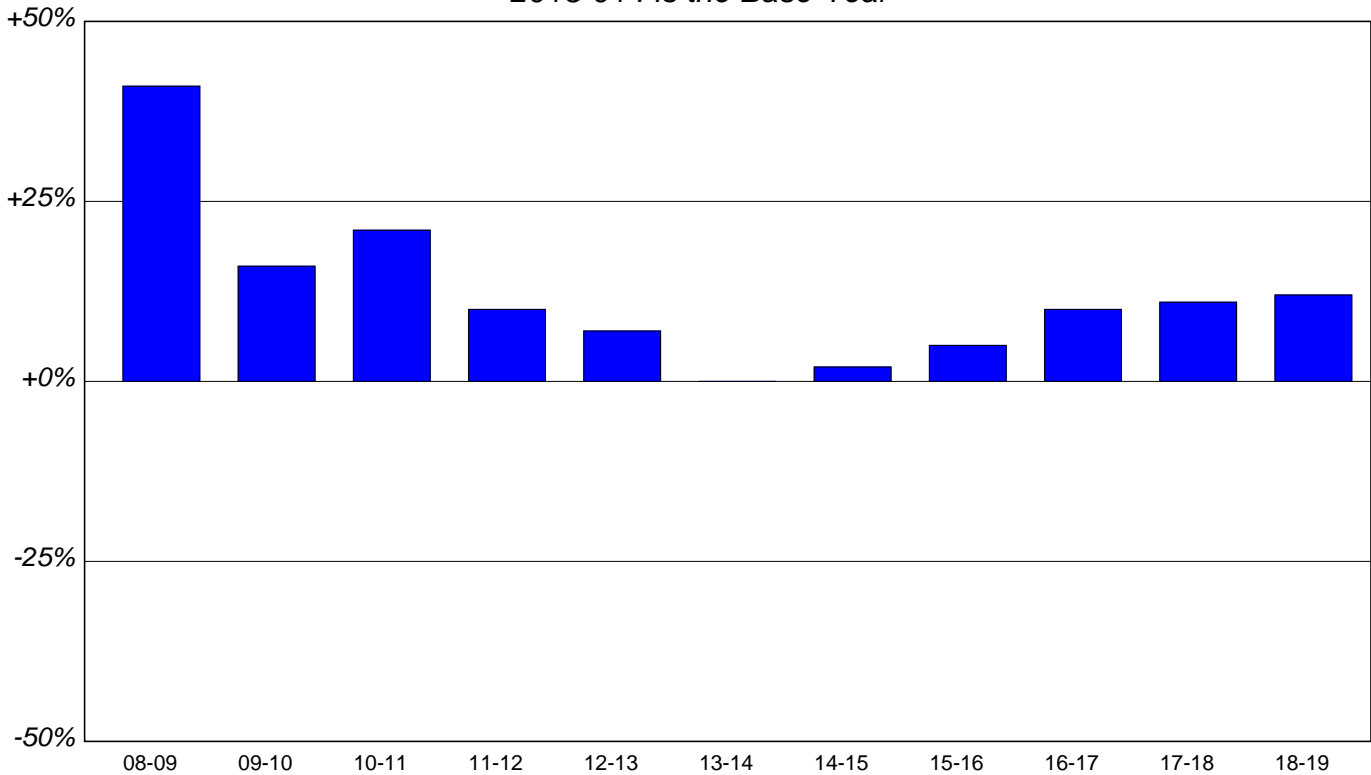
Graph 10-A: 6-8 Enrollment 2008-2019

Projection Method 3



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

2013-014 is the Base Year



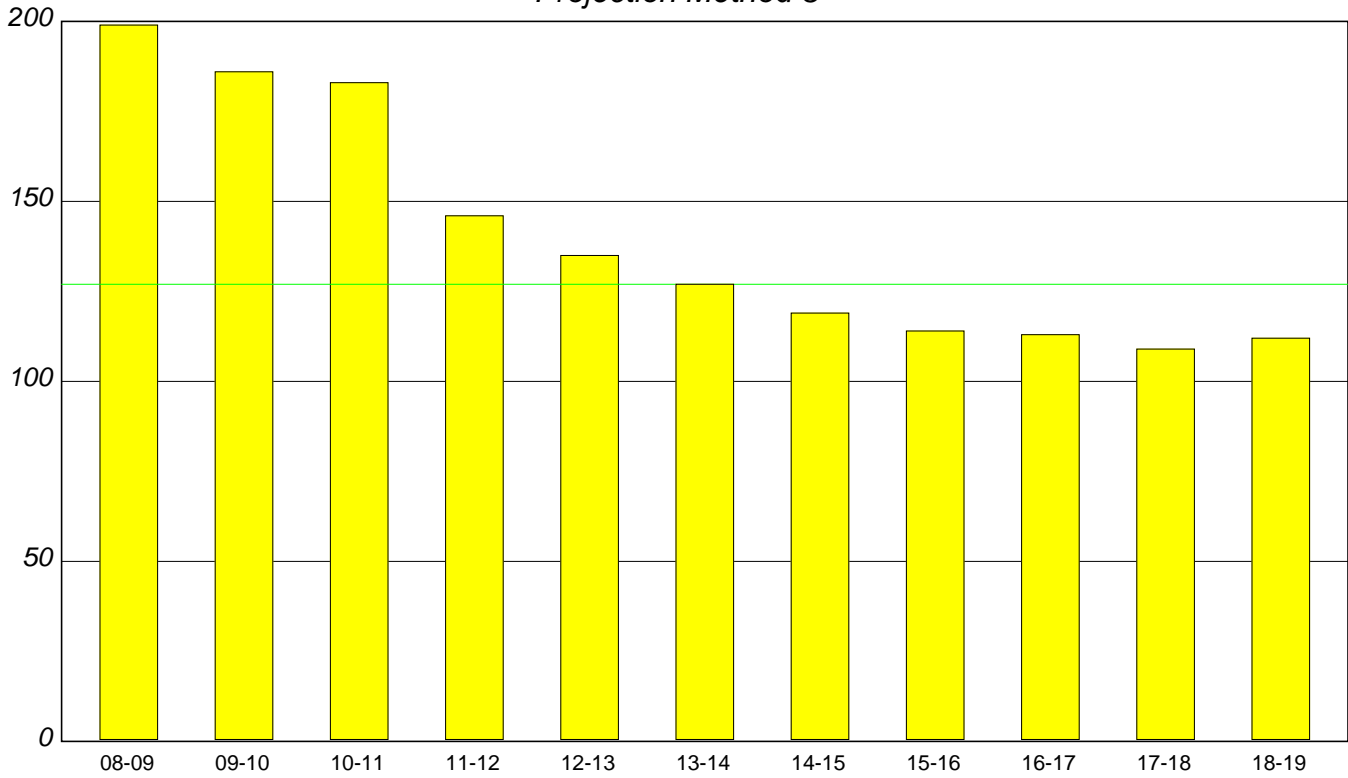
NOTE:

See Table 9 for specific enrollment numbers

Suring Public School District

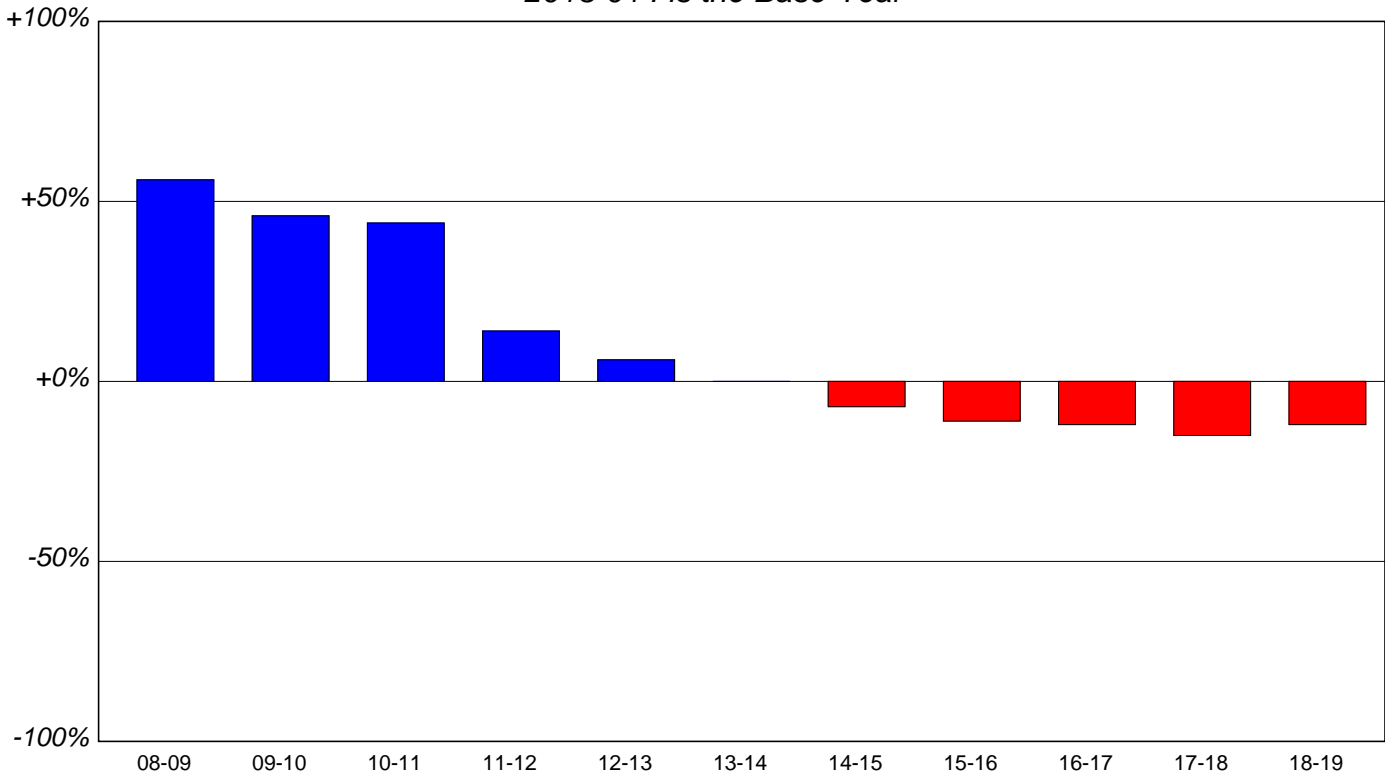
Graph 11-A: 9-12 Enrollment 2008-2019

Projection Method 3



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

2013-014 is the Base Year



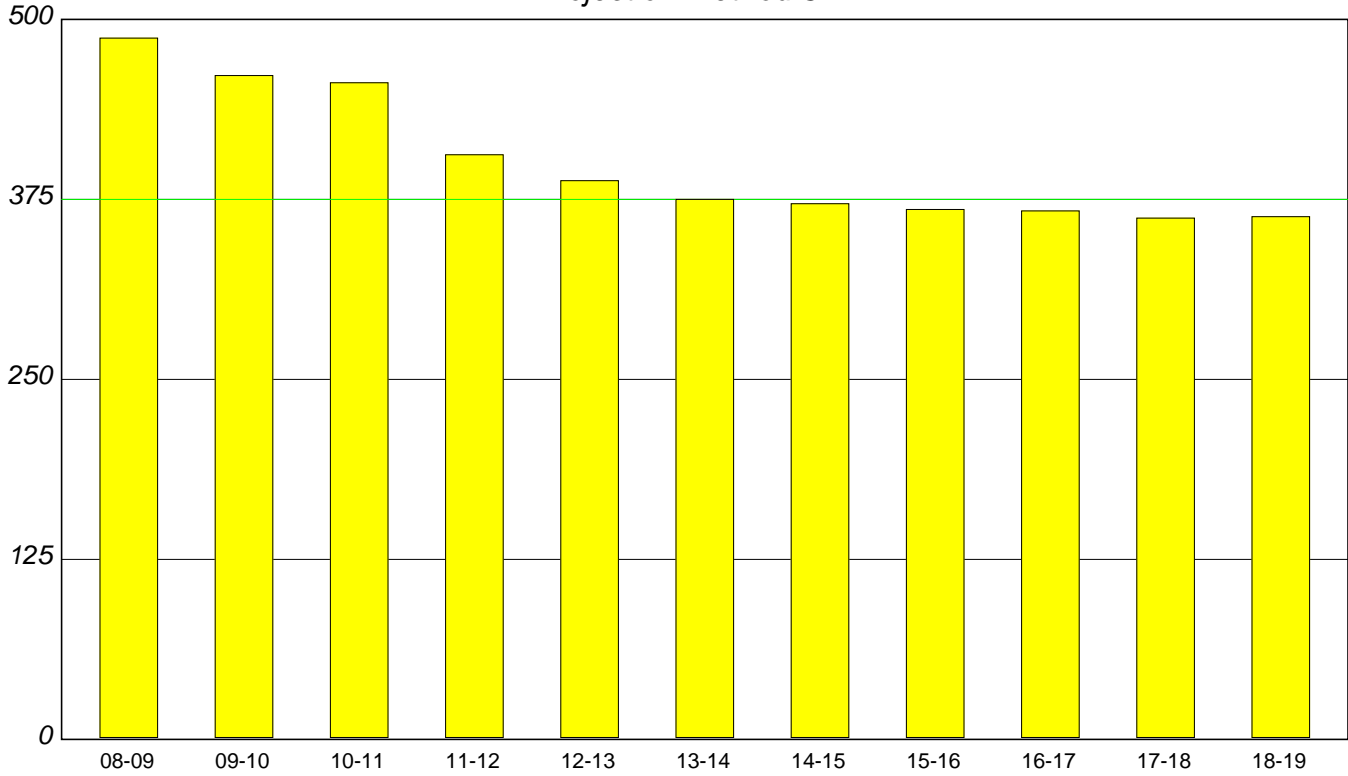
NOTE:

See Table 9 for specific enrollment numbers

Suring Public School District

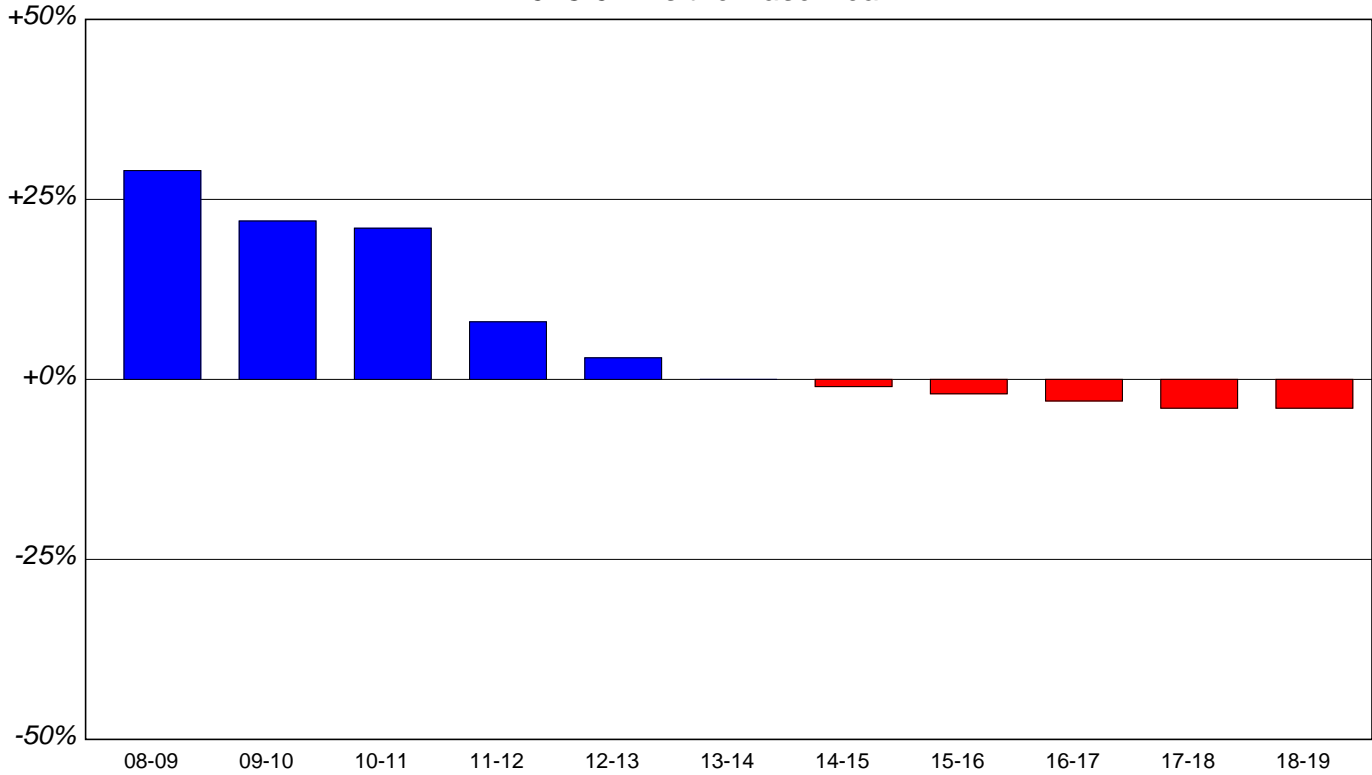
Graph 12-A: K-12 Enrollment 2008-2019

Projection Method 3



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

2013-014 is the Base Year

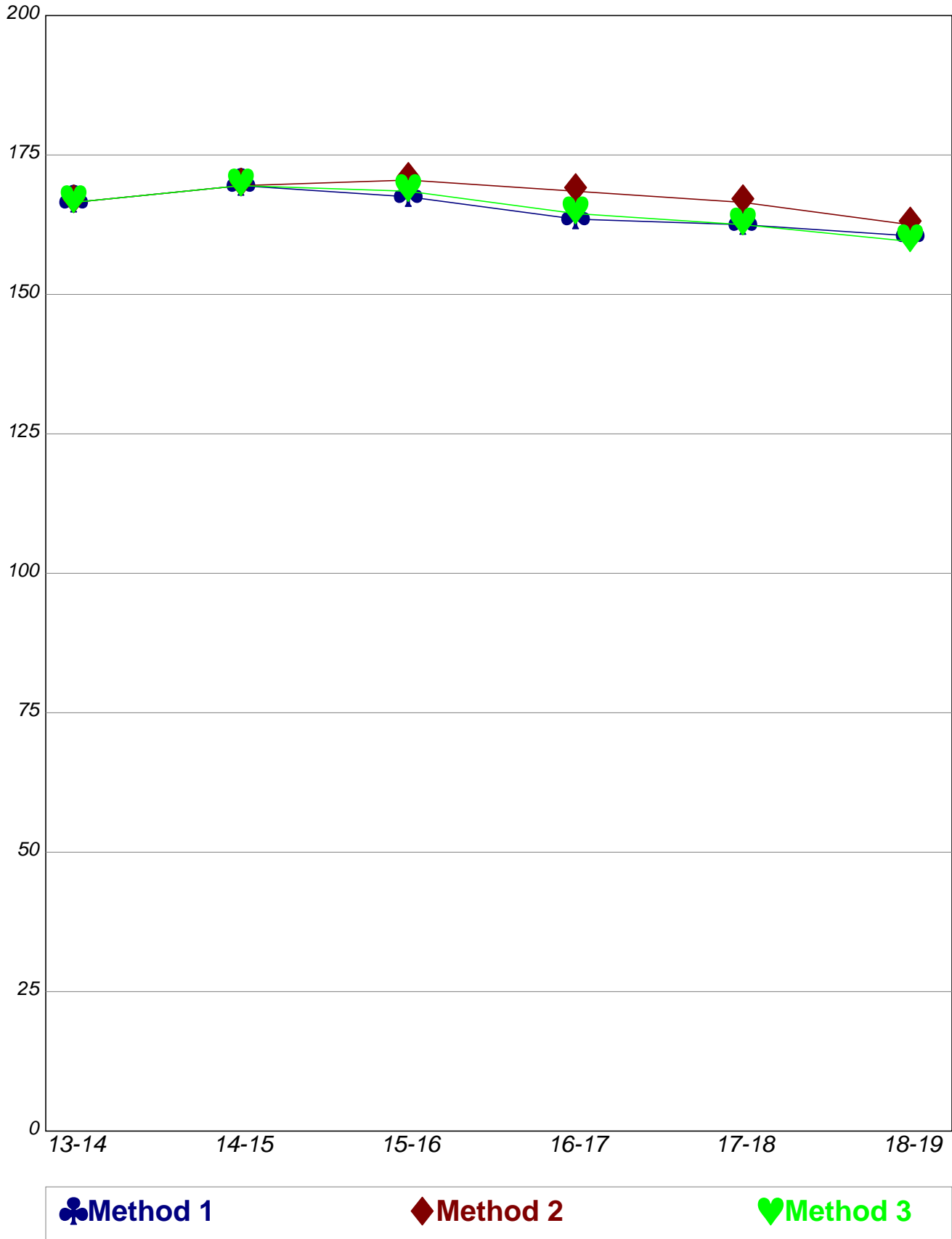


NOTE:

See Table 9 for specific enrollment numbers

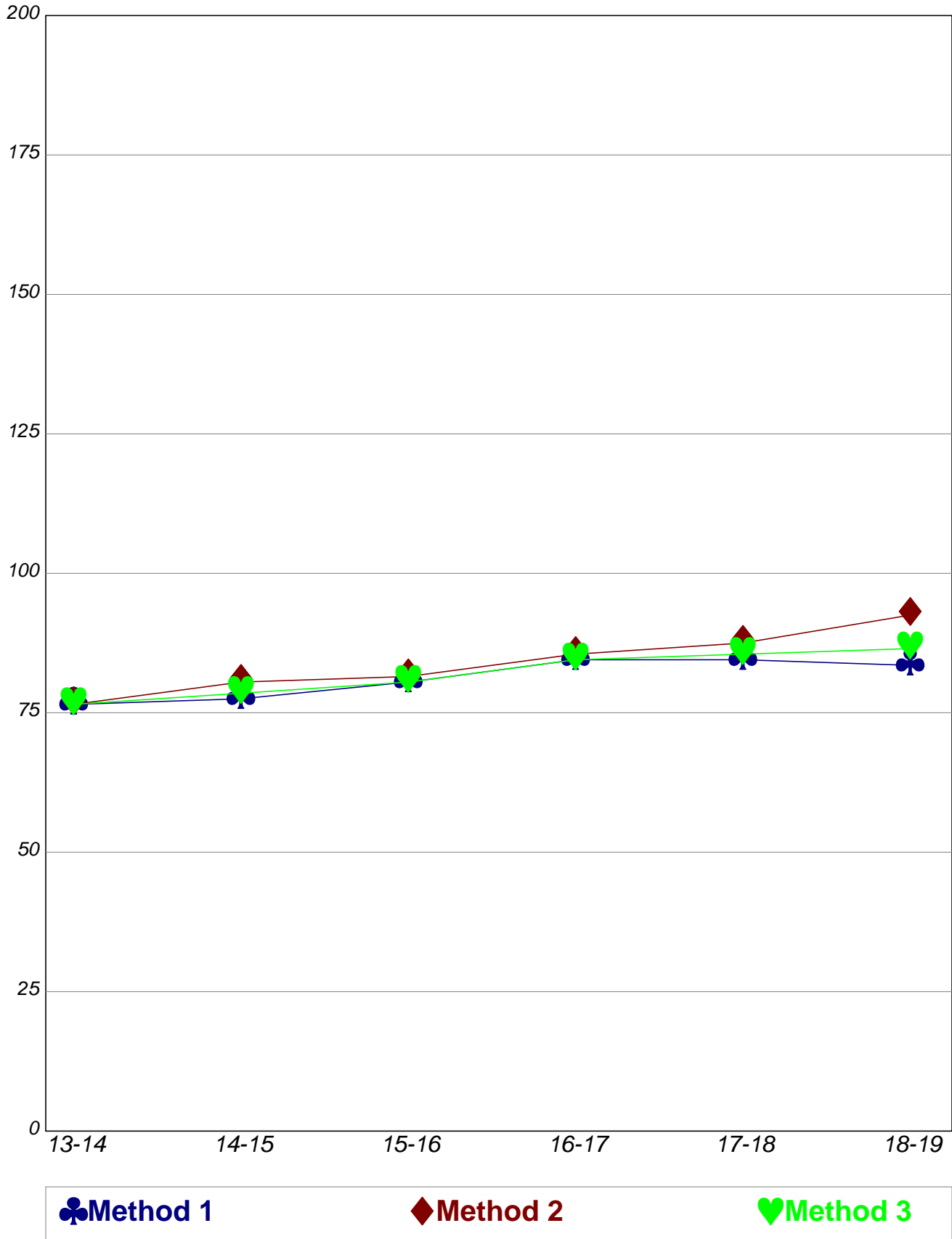
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Graph 13
K-5 Enrollment 2013-2018
Comparison between projection methods



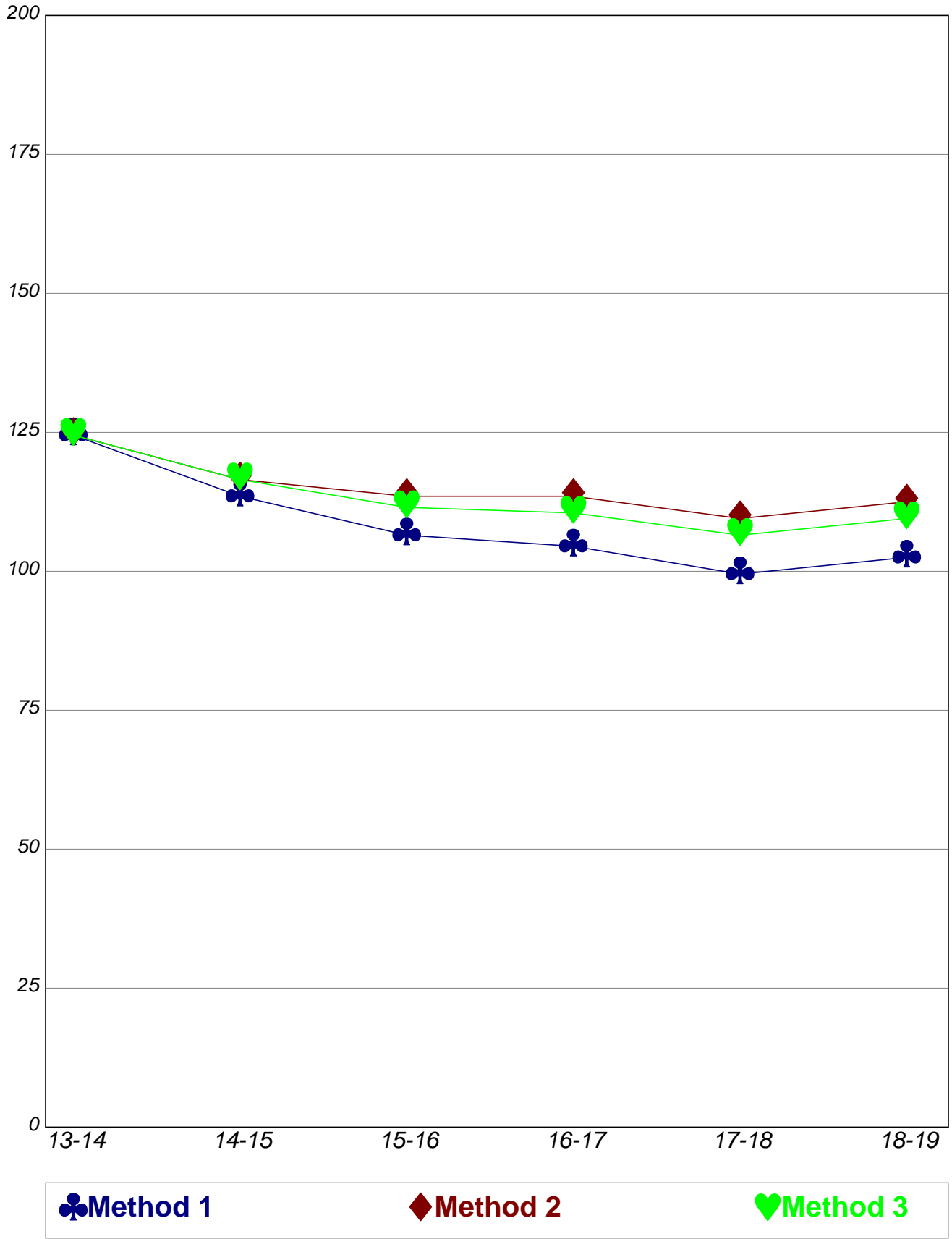
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Graph 14
6-8 Enrollment 2013-2018
Comparison between projection methods



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Graph 15
9-12 Enrollment 2013-2018
Comparison between projection methods

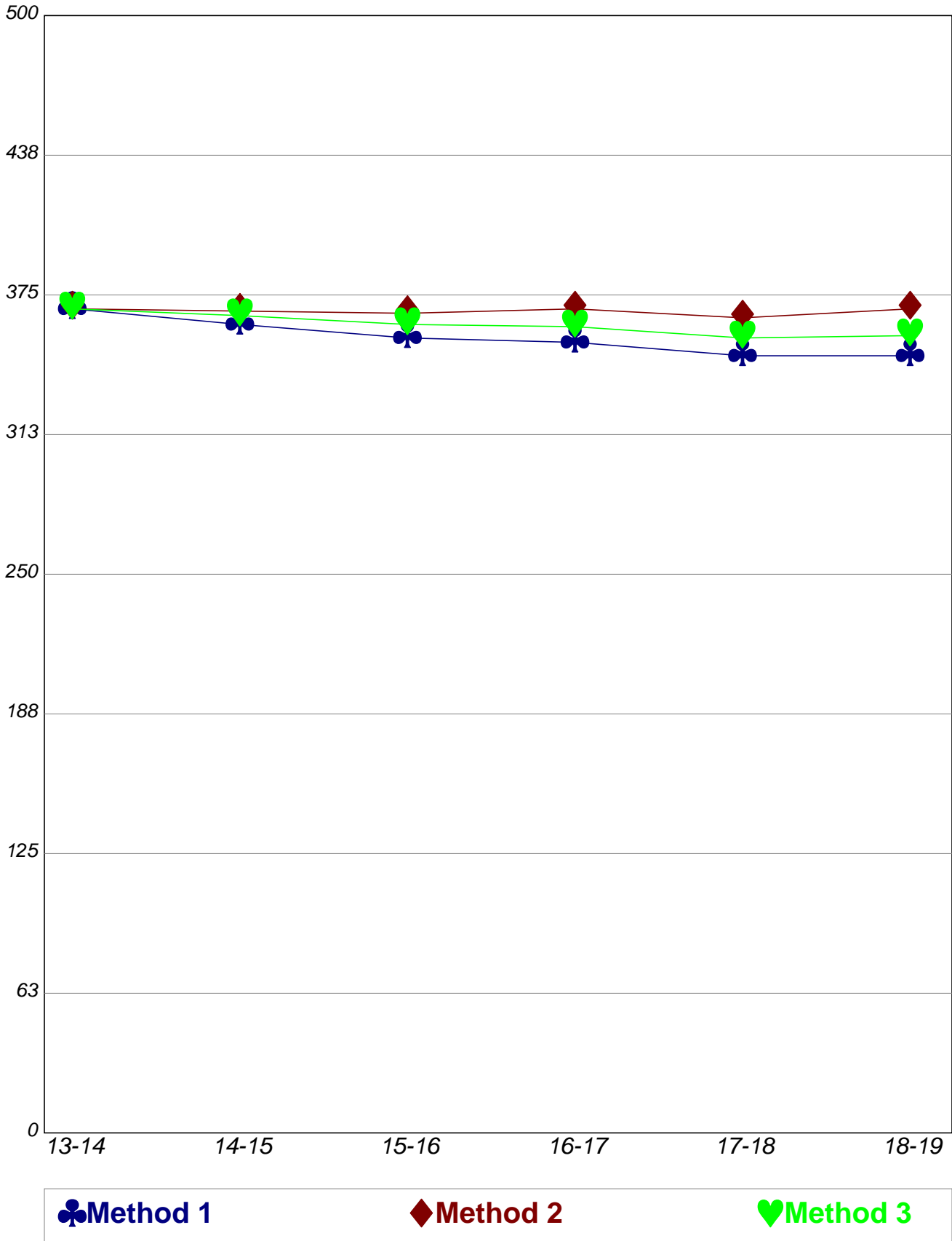


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Graph 16

K-12 Enrollment 2013-2018

Comparison between projection methods



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

GRADE	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
K	1.4	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
1	1.2	1.4	1.3	1.3	1.2	1.2	0.0	0.0	0.0	0.0
2	1.3	1.2	1.4	1.3	1.3	1.2	1.2	0.0	0.0	0.0
3	1.2	1.3	1.1	1.4	1.2	1.2	1.2	1.2	0.0	0.0
4	1.4	1.2	1.3	1.1	1.4	1.2	1.2	1.2	1.2	0.0
5	1.3	1.4	1.2	1.3	1.1	1.4	1.2	1.2	1.2	1.2
6	1.3	1.4	1.5	1.3	1.3	1.2	1.4	1.3	1.3	1.2
7	1.2	1.2	1.3	1.4	1.2	1.3	1.1	1.4	1.2	1.2
8	1.1	1.2	1.2	1.3	1.4	1.2	1.2	1.1	1.3	1.2
9	1.2	1.2	1.3	1.3	1.4	1.5	1.3	1.3	1.2	1.4
10	1.4	1.1	1.1	1.2	1.2	1.3	1.4	1.2	1.2	1.1
11	1.2	1.4	1.1	1.1	1.1	1.1	1.2	1.3	1.1	1.2
12	1.4	1.2	1.4	1.1	1.1	1.1	1.1	1.2	1.3	1.1

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

GRADE	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
K	1.3	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
1	1.1	1.3	1.2	1.2	1.1	1.1	0.0	0.0	0.0	0.0
2	1.2	1.1	1.3	1.2	1.2	1.1	1.1	0.0	0.0	0.0
3	1.1	1.2	1.0	1.3	1.1	1.1	1.1	1.1	0.0	0.0
4	1.3	1.1	1.2	1.0	1.3	1.1	1.1	1.1	1.1	0.0
5	1.2	1.3	1.1	1.2	1.0	1.3	1.1	1.1	1.1	1.1
6	1.2	1.3	1.3	1.2	1.2	1.1	1.3	1.2	1.2	1.1
7	1.1	1.1	1.2	1.3	1.1	1.2	1.0	1.3	1.1	1.1
8	1.0	1.1	1.1	1.2	1.3	1.1	1.1	1.0	1.2	1.1
9	1.1	1.1	1.2	1.2	1.3	1.3	1.2	1.2	1.1	1.3
10	1.3	1.0	1.0	1.1	1.1	1.2	1.3	1.1	1.1	1.0
11	1.1	1.3	1.0	1.0	1.0	1.0	1.1	1.2	1.0	1.1
12	1.3	1.1	1.3	1.0	1.0	1.0	1.0	1.1	1.2	1.0

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

GRADE	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
K	1.2	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
1	1.0	1.2	1.1	1.1	1.0	1.0	0.0	0.0	0.0	0.0
2	1.1	1.0	1.2	1.1	1.1	1.0	1.0	0.0	0.0	0.0
3	1.0	1.1	1.0	1.2	1.0	1.0	1.0	1.0	0.0	0.0
4	1.2	1.0	1.1	1.0	1.2	1.0	1.0	1.0	1.0	0.0
5	1.1	1.2	1.0	1.1	1.0	1.2	1.0	1.0	1.0	1.0
6	1.1	1.2	1.2	1.1	1.1	1.0	1.2	1.1	1.1	1.0
7	1.0	1.0	1.1	1.2	1.0	1.1	1.0	1.2	1.0	1.0
8	1.0	1.0	1.0	1.1	1.2	1.0	1.0	0.9	1.1	1.0
9	1.0	1.0	1.1	1.1	1.2	1.2	1.1	1.1	1.0	1.2
10	1.2	1.0	1.0	1.0	1.0	1.1	1.2	1.0	1.0	0.9
11	1.0	1.2	0.9	0.9	1.0	1.0	1.0	1.1	1.0	1.0
12	1.2	1.0	1.2	0.9	0.9	1.0	1.0	1.0	1.1	1.0

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

GRADE	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
K	1.1	1.0	1.0	0.9	0.9	0.0	0.0	0.0	0.0	0.0
1	0.9	1.1	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
2	1.0	0.9	1.1	1.0	1.0	1.0	1.0	0.0	0.0	0.0
3	1.0	1.0	0.9	1.1	1.0	1.0	0.9	0.9	0.0	0.0
4	1.1	1.0	1.0	0.9	1.1	1.0	1.0	0.9	0.9	0.0
5	1.0	1.1	1.0	1.0	0.9	1.1	1.0	1.0	0.9	0.9
6	1.0	1.1	1.1	1.0	1.0	0.9	1.1	1.0	1.0	1.0
7	1.0	1.0	1.0	1.1	1.0	1.0	0.9	1.1	1.0	1.0
8	0.9	0.9	0.9	1.0	1.1	0.9	1.0	0.9	1.0	0.9
9	1.0	1.0	1.0	1.0	1.1	1.1	1.0	1.0	0.9	1.1
10	1.1	0.9	0.9	0.9	0.9	1.0	1.1	0.9	1.0	0.9
11	1.0	1.1	0.9	0.9	0.9	0.9	1.0	1.0	0.9	0.9
12	1.1	1.0	1.1	0.9	0.9	0.9	0.9	1.0	1.0	0.9

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

GRADE	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
K	1.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
1	0.9	1.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
2	1.0	0.9	1.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0
3	0.9	0.9	0.8	1.0	0.9	0.9	0.9	0.9	0.0	0.0
4	1.0	0.9	0.9	0.8	1.0	0.9	0.9	0.9	0.9	0.0
5	1.0	1.0	0.9	0.9	0.8	1.0	0.9	0.9	0.9	0.9
6	0.9	1.0	1.1	0.9	1.0	0.9	1.0	0.9	0.9	0.9
7	0.9	0.9	1.0	1.0	0.9	0.9	0.8	1.0	0.9	0.9
8	0.8	0.9	0.9	0.9	1.0	0.9	0.9	0.8	1.0	0.9
9	0.9	0.9	0.9	0.9	1.0	1.1	0.9	1.0	0.9	1.0
10	1.0	0.8	0.8	0.9	0.9	0.9	1.0	0.9	0.9	0.8
11	0.9	1.0	0.8	0.8	0.8	0.8	0.9	1.0	0.8	0.9
12	1.0	0.9	1.0	0.8	0.8	0.8	0.8	0.9	1.0	0.8

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Table 17 - Accuracy Table
Difference Between Actual and Projected 2013-14 Enrollment

Grade	Current Enrollment	Method 1 Projection	% Diff.	Method 2 Projection	% Diff.	Method 3 Projection	% Diff.
K	25	26	+2.72%	26	+2.56%	26	+2.64%
1	29	30	+4.46%	30	+3.70%	30	+4.08%
2	28	28	-1.62%	26	-6.67%	27	-4.14%
3	31	26	-15.49%	24	-23.36%	25	-19.43%
4	29	27	-5.75%	25	-12.23%	26	-8.99%
5	27	31	+14.37%	33	+20.77%	32	+17.57%
6	28	25	-9.73%	26	-7.41%	26	-8.57%
7	26	27	+3.93%	25	-4.27%	26	-0.17%
8	25	23	-8.19%	23	-6.82%	23	-7.50%
9	33	36	+10.22%	34	+3.85%	35	+7.03%
10	28	25	-12.25%	22	-21.33%	23	-16.79%
11	31	30	-4.44%	31	+0.00%	30	-2.22%
12	35	34	-2.25%	38	+9.92%	36	+3.84%
K-5	169	168	-0.59%	164	-2.96%	166	-1.78%
6-8	79	75	-5.06%	74	-6.33%	75	-5.06%
9-12	127	125	-1.57%	125	-1.57%	124	-2.36%
K-12	375	368	-1.87%	363	-3.20%	365	-2.67%