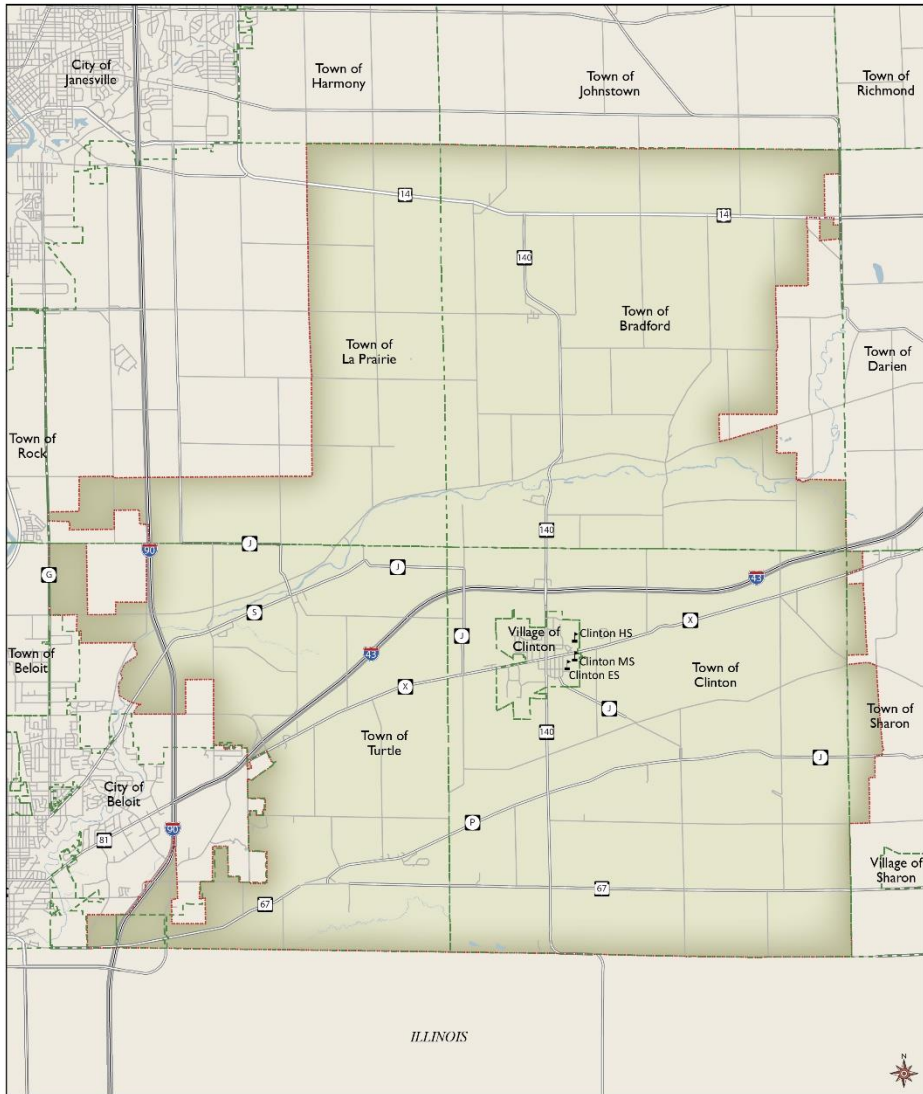


# Planning for the Schools of Tomorrow



Clinton Community School District

- Schools
- Municipalities
- School District
- Water

0 0.5 1 Mile

Prepared by the Applied Population Laboratory  
University of Wisconsin-Madison  
Department of Community & Environmental Sociology

## School Enrollment Projections Series Clinton Community School District

January 2018

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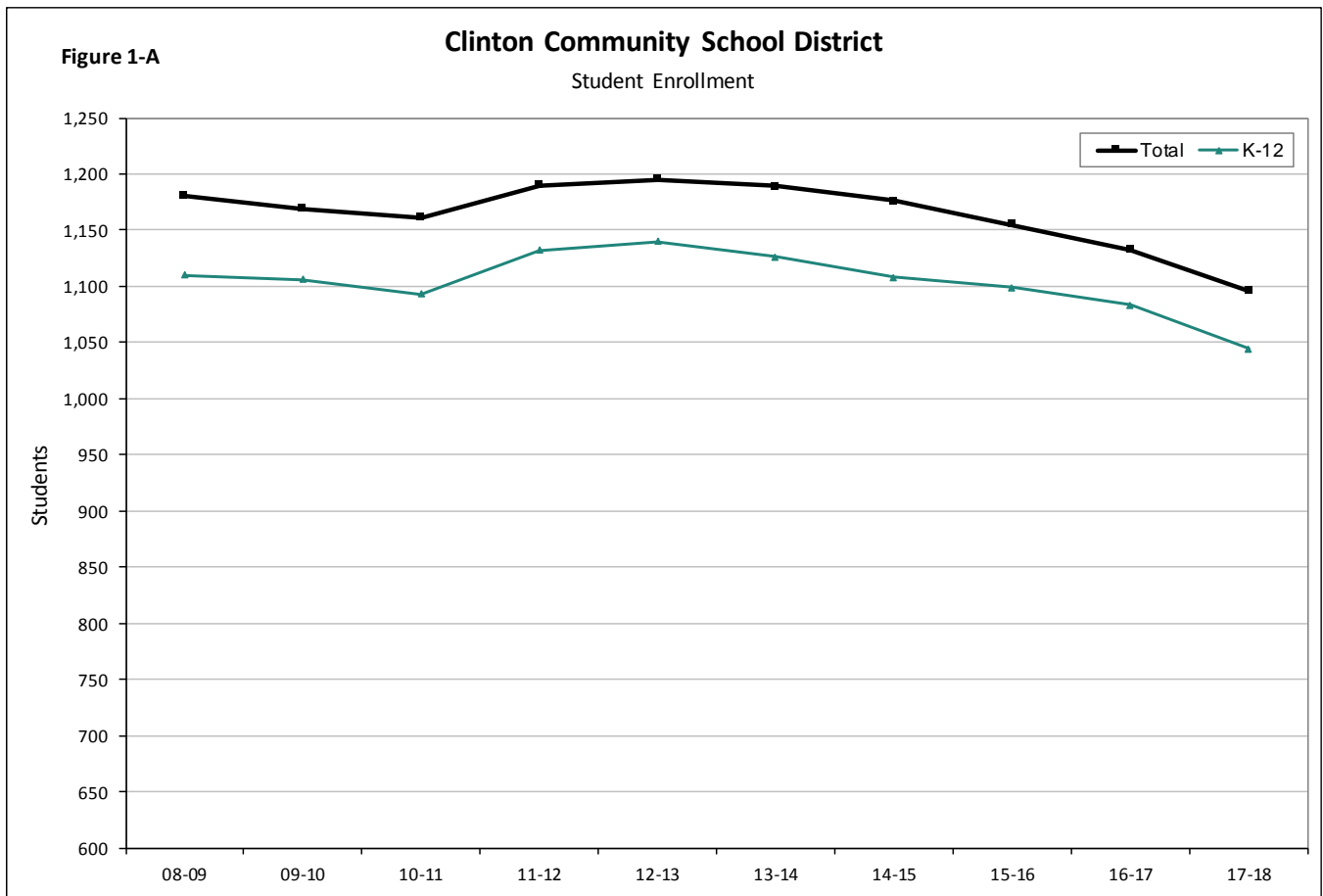


## Introduction

This report offers a summary of the Enrollment Projection Analysis completed for the Clinton Community School District by the Applied Population Laboratory, University of Wisconsin-Madison. Enrollment projections are provided for the district as a whole, and individually for each grade and grade grouping. The projection process uses a combination of historical enrollment data, birth trends and projections, housing starts data, and population trends to create reasonable assumptions about future growth scenarios and the likely impact on the school district.

## District Enrollment History

Figure 1-A below and Table 1-A on the following page display the last ten years of enrollment history in the Clinton Community School District. After a slight increase through 2012-2013, the district's enrollment has declined steadily over the past five years, falling by nearly 100 students in that time.



**TABLE 1-A**  
**Student Enrollment**  
**Clinton Community School District**

	SCHOOL YEAR									
	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
4K	71	63	68	58	55	63	68	56	50	52
K	74	84	67	83	75	66	67	71	65	60
1	66	77	87	70	85	71	72	71	73	60
2	74	68	76	87	76	91	72	68	68	78
3	84	76	67	78	94	78	89	66	73	70
4	78	81	81	68	85	95	79	92	73	78
5	90	87	80	95	72	87	100	78	92	77
6	74	89	87	83	98	73	86	105	84	89
7	89	67	88	93	88	100	75	86	107	86
8	93	86	74	93	93	90	98	80	84	104
9	104	91	88	78	101	94	92	95	80	82
10	93	107	94	97	82	101	95	89	92	81
11	94	101	103	101	89	87	98	100	96	91
12	97	92	101	106	102	93	85	98	96	88
<b>TOTAL</b>	<b>1,181</b>	<b>1,169</b>	<b>1,161</b>	<b>1,190</b>	<b>1,195</b>	<b>1,189</b>	<b>1,176</b>	<b>1,155</b>	<b>1,133</b>	<b>1,096</b>
K-12	1,110	1,106	1,093	1,132	1,140	1,126	1,108	1,099	1,083	1,044
K-4	376	386	378	386	415	401	379	368	352	346
5-8	346	329	329	364	351	350	359	349	367	356
9-12	388	391	386	382	374	375	370	382	364	342

Some of the decrease since 2012/13 has been due to a modest decline in the net gain from the Open Enrollment program, illustrated in Table 1-B. (Similarly, the rise in Open Enrollment prior to 2012/13 helped to sustain the total student count.) This positive gain has accounted for seven to ten percent of enrollment in the past six years. For the purposes of the projections, we assume that the current numeric net gain will remain relatively constant in future years.

**TABLE 1-B**  
**Open Enrollment Transfers**  
**Clinton Community School District**

School Year	In	Out	Net
2008-09	89	21	68
2009-10	92	31	61
2010-11	109	37	72
2011-12	116	29	87
2012-13	139	30	109
2013-14	140	41	99
2014-15	135	58	77
2015-16	147	54	93
2016-17	148	56	92

Source: WI Dept. of Public Instruction



Table 2 displays the numeric and percentage changes in specific grade enrollments and grade groupings since 2008/09 for two four-year periods. After gaining students early in the past decade, particularly in grades K-4 and to a lesser degree in 5-8, the district has experienced a sharp drop at the elementary and high school levels over the past four years, with a small gain in the middle school.

**TABLE 2**  
**Student Enrollment Changes**  
**Clinton Community School District**

GRADE	ABSOLUTE CHANGE			PERCENT CHANGE			AVERAGE ANNUAL PERCENT CHANGE		
	'08 to '17	'08 to '12	'13 to '17	'08 to '17	'08 to '12	'13 to '17	'08 to '17	'08 to '12	'13 to '17
4K	-19	-16	-11	-26.8	-22.5	-17.5	-3.0	-5.6	-4.4
K	-14	1	-6	-18.9	1.4	-9.1	-2.1	0.3	-2.3
1	-6	19	-11	-9.1	28.8	-15.5	-1.0	7.2	-3.9
2	4	2	-13	5.4	2.7	-14.3	0.6	0.7	-3.6
3	-14	10	-8	-16.7	11.9	-10.3	-1.9	3.0	-2.6
4	0	7	-17	0.0	9.0	-17.9	0.0	2.2	-4.5
5	-13	-18	-10	-14.4	-20.0	-11.5	-1.6	-5.0	-2.9
6	15	24	16	20.3	32.4	21.9	2.3	8.1	5.5
7	-3	-1	-14	-3.4	-1.1	-14.0	-0.4	-0.3	-3.5
8	11	0	14	11.8	0.0	15.6	1.3	0.0	3.9
9	-22	-3	-12	-21.2	-2.9	-12.8	-2.4	-0.7	-3.2
10	-12	-11	-20	-12.9	-11.8	-19.8	-1.4	-3.0	-5.0
11	-3	-5	4	-3.2	-5.3	4.6	-0.4	-1.3	1.1
12	-9	5	-5	-9.3	5.2	-5.4	-1.0	1.3	-1.3
<b>TOTAL</b>	<b>-85</b>	<b>14</b>	<b>-93</b>	<b>-7.2</b>	<b>1.2</b>	<b>-7.8</b>	<b>-0.8</b>	<b>0.3</b>	<b>-2.0</b>
K-12	-66	30	-82	-5.9	2.7	-7.3	-0.7	0.7	-1.8
K-4	-30	39	-55	-8.0	10.4	-13.7	-0.9	2.6	-3.4
5-8	10	5	6	2.9	1.4	1.7	0.3	0.4	0.4
9-12	-46	-14	-33	-11.9	-3.6	-8.8	-1.3	-0.9	-2.2



Figure 1-B shows enrollment history broken down by grade groupings (4K, K-4, 5-8 and 9-12). Of the three schools, only the middle school has an enrollment above 2008/09, with the annual average gain being only one student or 0.3%. The elementary (K-4) school peaked in 2012/13 but has fallen steadily since. The high school, while displaying some variability, has seen its enrollment decline overall and particularly in the past two years. Finally, 4K has fluctuated from 50 to 71 students, with enrollments in the last two years at their lowest in the past decade.

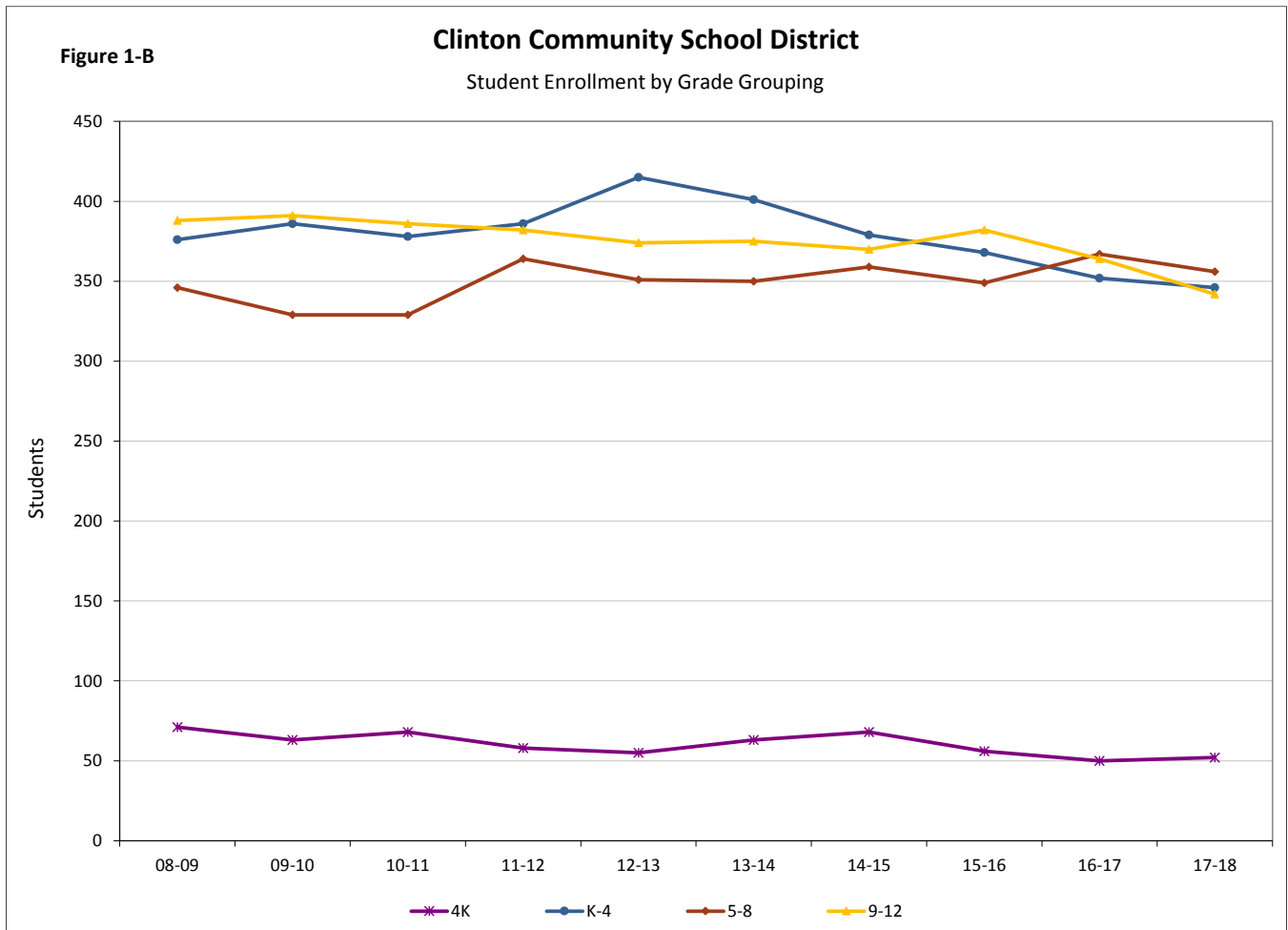
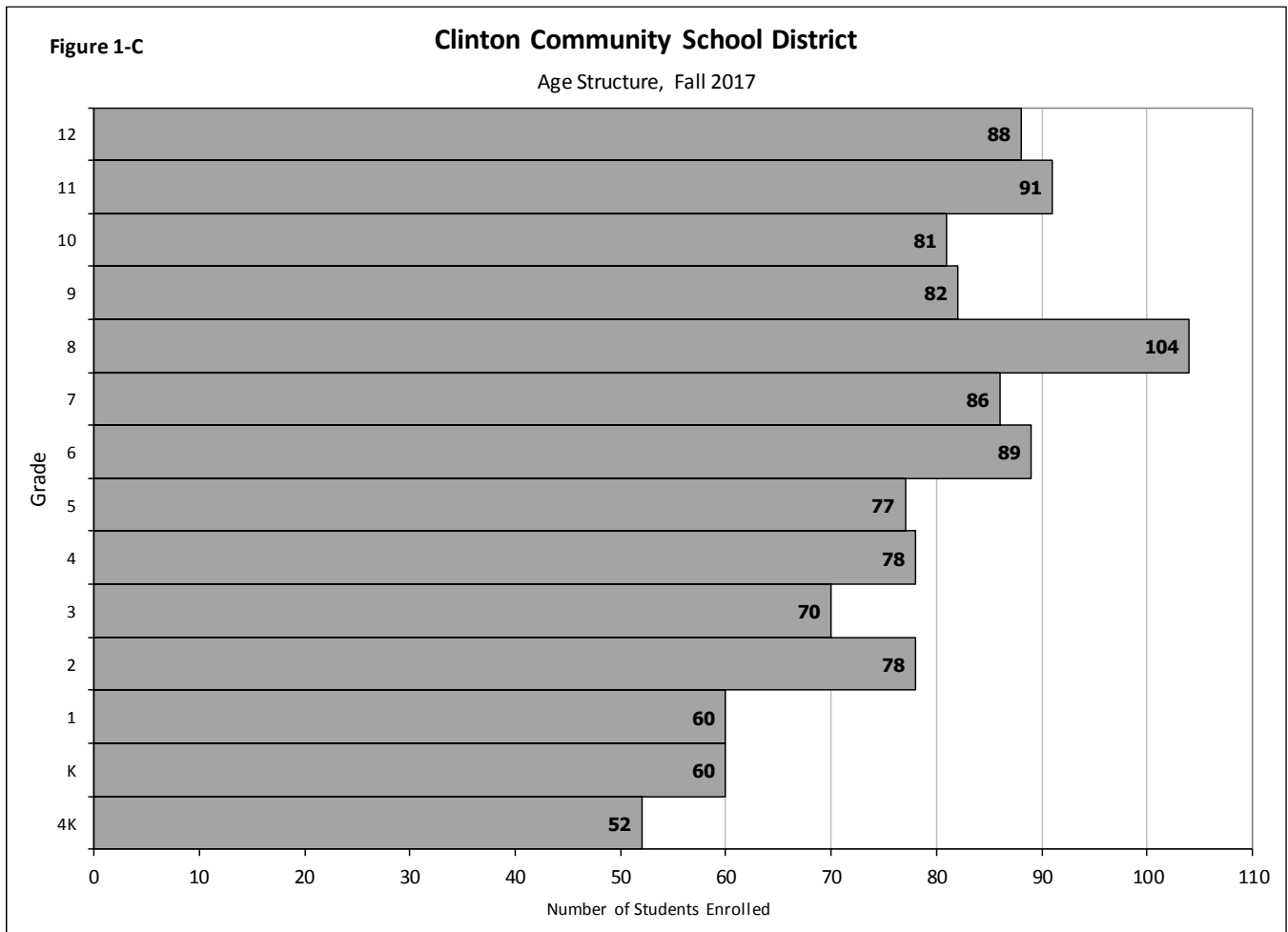




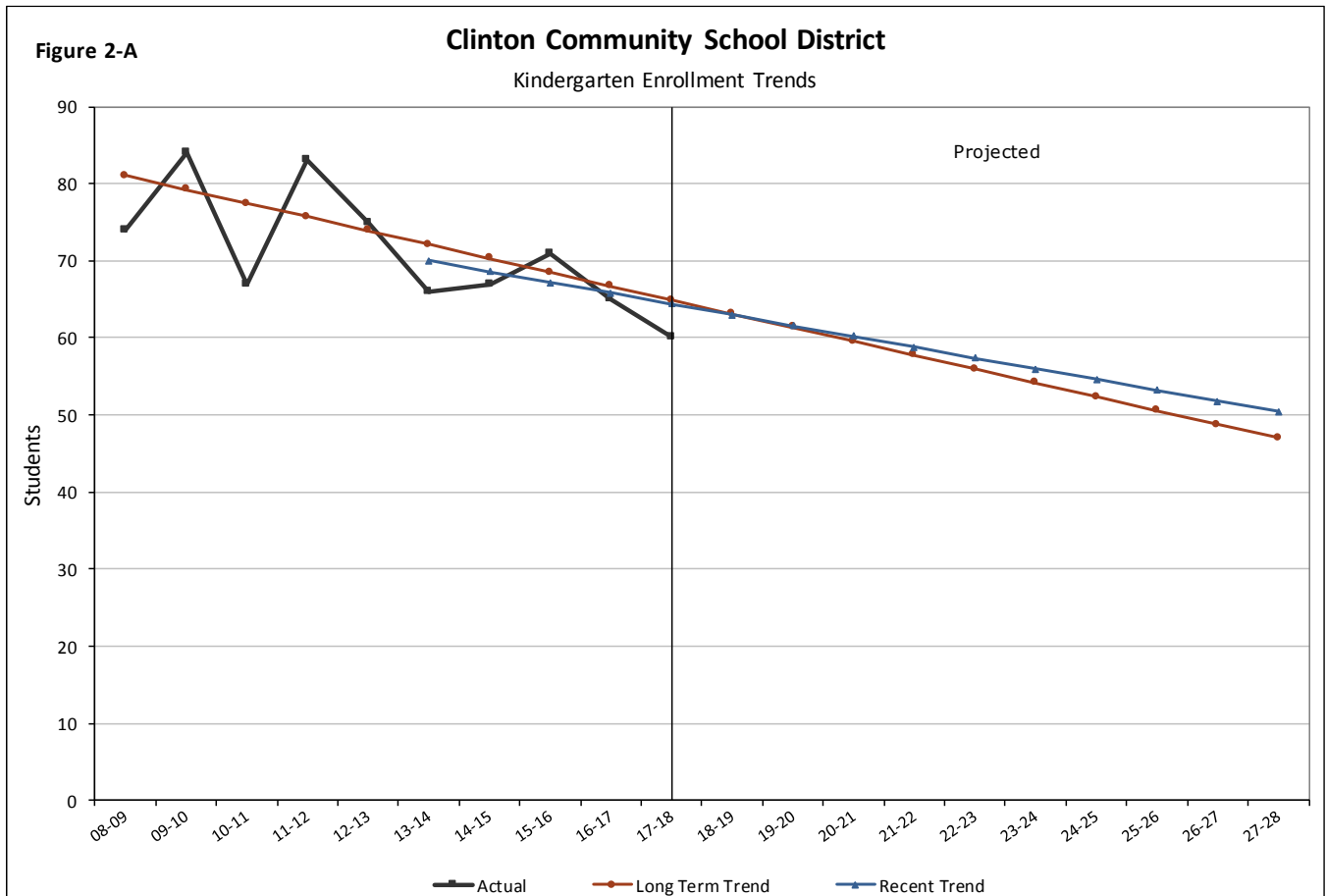
Figure 1-C shows the age structure in Fall 2017 of the student population with the number of 4-year-old kindergarteners at the bottom and the number of 12<sup>th</sup> graders at the top. The average class size for grades 9-12 is 86, with the 11<sup>th</sup> grade being slightly larger; and grades 5-8 average 89, with a particularly large cohort now in 8<sup>th</sup> grade. Grades K-4 are markedly smaller (average size of 69). Through Open Enrollment, the district has a history of class sizes increasing as cohorts of children age through the district, as will be discussed later in the section on Grade Progression Ratios.



## Kindergarten Enrollment Trends

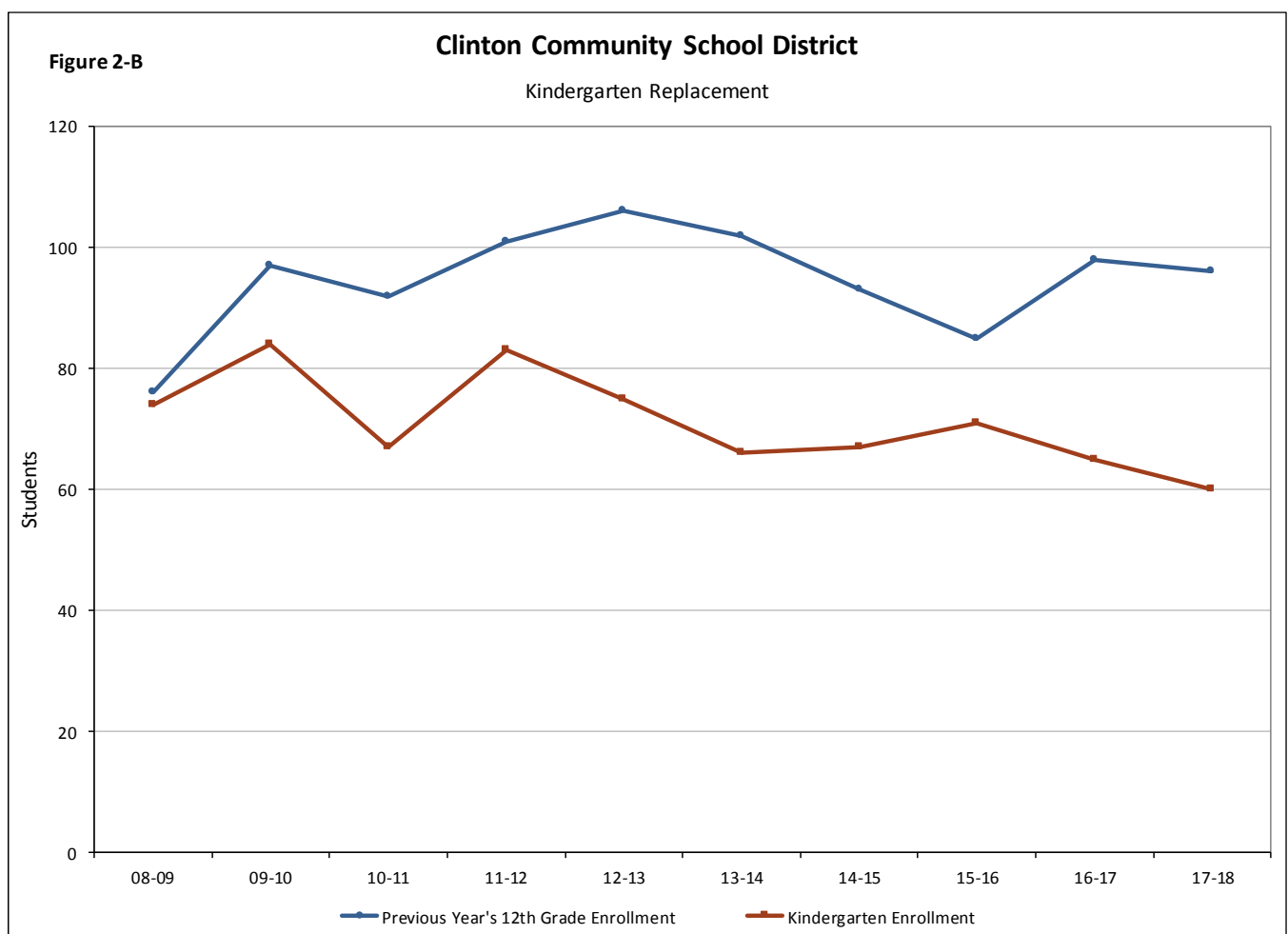
Examining trends in kindergarten enrollment is particularly informative for gaining perspective on future district enrollment, as today’s kindergarteners will gradually make up tomorrow’s students at the higher grade levels as they age and move through the school system. When kindergarten enrollment is increasing, elementary and middle school enrollment might be expected to increase in the near future, while high school enrollment may increase farther in the future.

Figure 2-A shows kindergarten enrollment history in black, and trend lines depicting kindergarten enrollment in red and blue. The “Long Term Trend” line (shown in dark red) averages kindergarten enrollment changes from 2008/09 through 2017/18. The “Recent Trend” line (shown in blue) emphasizes kindergarten enrollment changes over the last five years. In the Clinton Community School District, both the long-term and recent kindergarten enrollment trends point to decreasing enrollment. Given the relative volatility in the district’s kindergarten enrollment history, the more moderate Recent Trend pattern will be used in the Kindergarten Trend Projection later in this report.



In addition to examining kindergarten enrollment on its own, comparing “incoming” kindergarteners to “outgoing” 12<sup>th</sup> graders offers a snapshot of how the age structure of district enrollment is shifting either from older to younger, or younger to older. Districts tend to experience overall growth when kindergarten enrollment outpaces outgoing students, and they tend to experience decline when kindergarteners do not fully replace the number of graduates.

As illustrated in Figure 2-B below, the incoming kindergarten class of students has not exceeded the prior year’s 12<sup>th</sup> graders through the past ten years. The “spread” has been particularly large in five of the past six years (greater than 25). While the district tends to see class sizes increase, due to Open Enrollment, as cohorts of children age through their schooling, this discrepancy between “entering” and “leaving” students is a concern for future years’ enrollments.

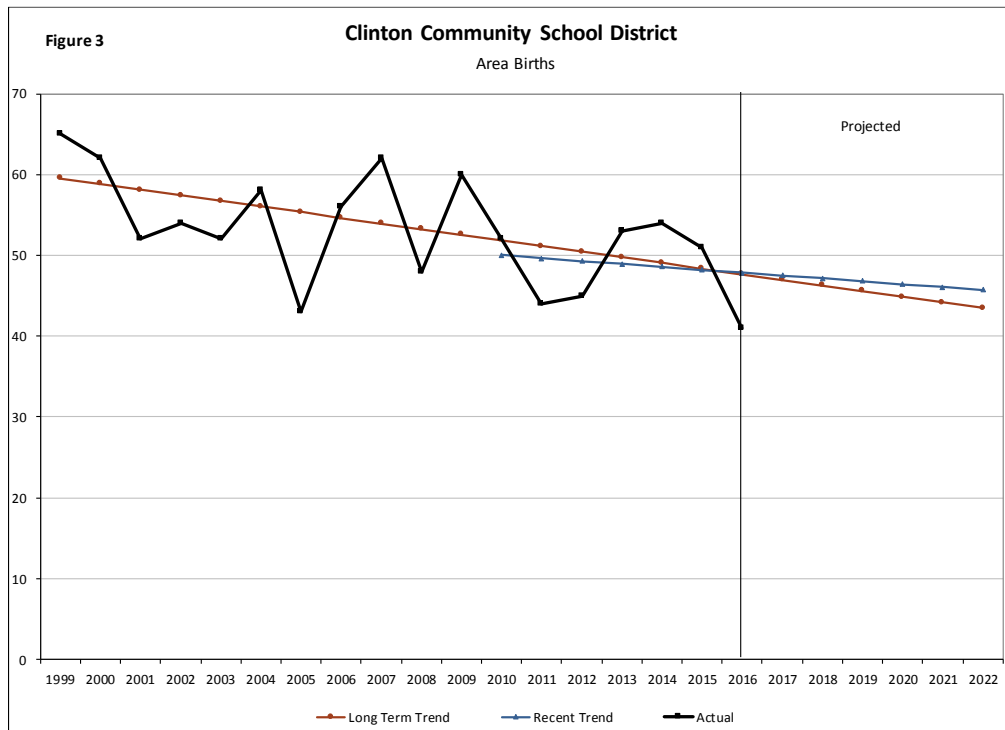


## Birth Trends and Projections

We use historical and projected birth data to forecast the number of 4K and 5K students who will enroll in the Clinton Community School District in future years. Birth data, as collected and summarized by the Wisconsin Department of Health Services, is available only at the municipal level. Thus, the birth history presented here includes four municipalities that are either completely or partially within the district’s boundaries: the Village of Clinton and the towns of Bradford, Clinton and Turtle. Figure 3 shows (in black) the number of births to mothers living in these municipalities from 1999 through 2016.

We extrapolate long-and short-range birth trends into the future to correspond with our Baseline and Recent Trend projection models, using the B:K progression ratios to transform births (B) into future kindergarteners (K).

- The dark red line in Figure 3 represents the birth trend over the past 18 years, and is utilized in the Baseline method projections later in this report. There has been quite wide variability in births in the area—from as few as 41 to as many as 65—but the long term pattern indicates decreasing births in the next six years.
- The blue line denotes birth patterns for the last seven years and is applied in the two Recent Trend projection models shown later. This short-range trend—reflecting births that have occurred since the 2007-2009 Great Recession—also projects declining births through 2022.



Year	1999	2000	2001	2002	2003	2004	2005	2006	2007
# of Births	65	62	52	54	52	58	43	56	62
Year	2008	2009	2010	2011	2012	2013	2014	2015	2016
# of Births	48	60	52	44	45	53	54	51	41

Source: WI Department of Health Services



## Population Estimates and Age Structure

This section examines population trends of the recent past for the Clinton Community School District. Changes in the total population of the district area, particularly when examined by age, provide clues into how the school-age population may be changing.

Table 3 provides the Census population counts for 2010 and the Wisconsin Department of Administration's (WI DOA) estimates for 2011 to 2017 for the district's primary municipalities. The population in the district area has decreased nearly 2% (124 residents) since 2010. By comparison, Rock County's population has slipped 0.6% since 2010, while the state has grown by 1.7%.

**TABLE 3**  
**Total Population by Municipality: 2010-2017**  
**Clinton Community School District**

Municipality	POPULATION							
	Census 2010	est. 2011	est. 2012	est. 2013	est. 2014	est. 2015	est. 2016	est. 2017
Clinton village	2,154	2,144	2,146	2,131	2,119	2,121	2,108	2,110
Bradford town	1,121	1,121	1,108	1,105	1,098	1,090	1,084	1,074
Clinton town	930	931	934	936	935	936	936	935
Turtle town	2,388	2,387	2,383	2,371	2,375	2,374	2,366	2,350
<b>District Area</b>	<b>6,593</b>	<b>6,583</b>	<b>6,571</b>	<b>6,543</b>	<b>6,527</b>	<b>6,521</b>	<b>6,494</b>	<b>6,469</b>
Rock County	160,331	160,287	160,129	160,148	160,104	160,059	159,886	159,372
State of Wisconsin	5,686,986	5,694,236	5,703,525	5,717,110	5,732,981	5,753,324	5,775,120	5,783,278

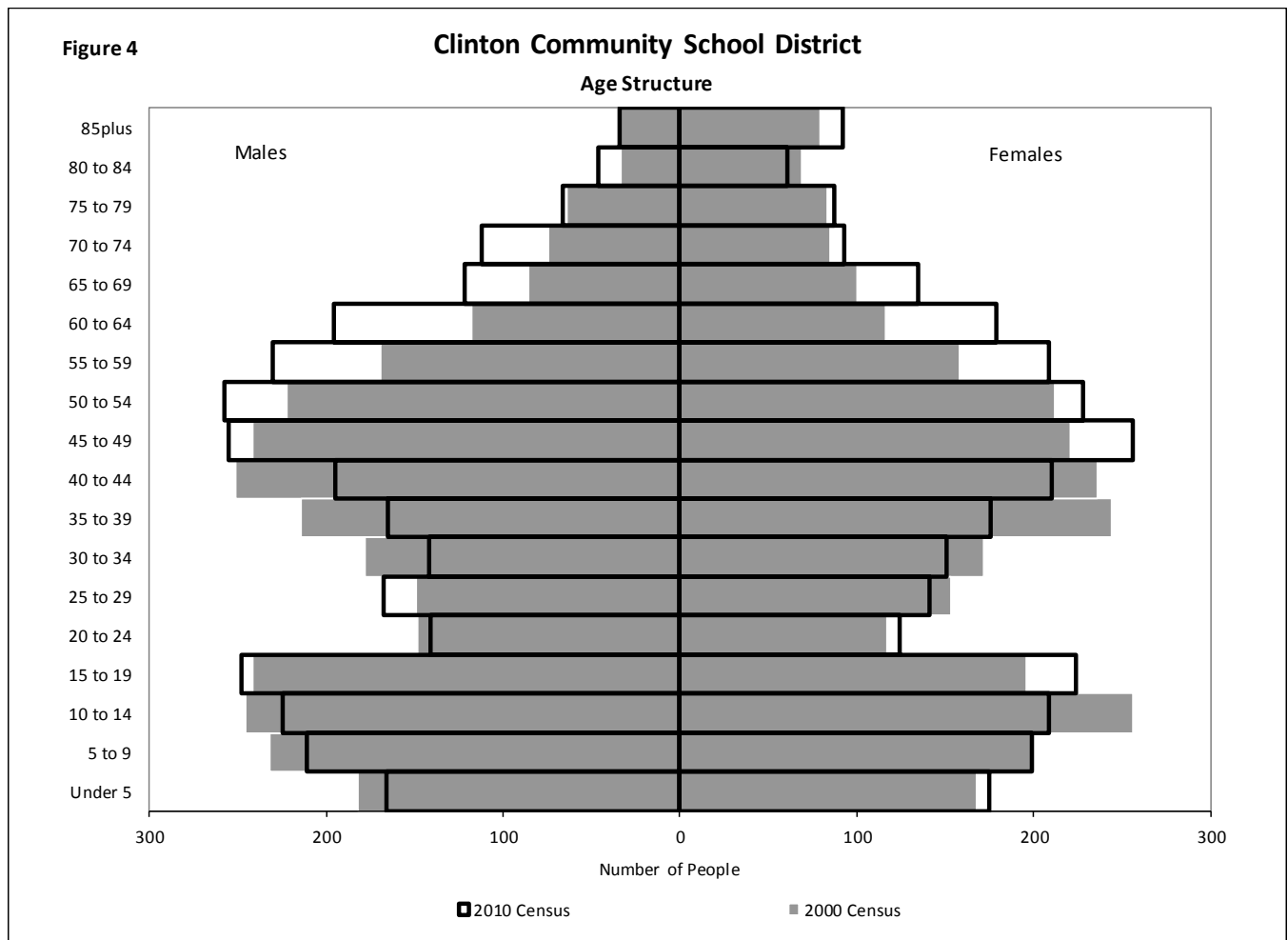
Municipality	PERCENT CHANGE							
	2010 to 2011	2011 to 2012	2012 to 2013	2013 to 2014	2014 to 2015	2015 to 2016	2016 to 2017	2010 to 2017
Clinton village	-0.5%	0.1%	-0.7%	-0.6%	0.1%	-0.6%	0.1%	-2.0%
Bradford town	0.0%	-1.2%	-0.3%	-0.6%	-0.7%	-0.6%	-0.9%	-4.2%
Clinton town	0.1%	0.3%	0.2%	-0.1%	0.1%	0.0%	-0.1%	0.5%
Turtle town	0.0%	-0.2%	-0.5%	0.2%	0.0%	-0.3%	-0.7%	-1.6%
<b>District Area</b>	<b>-0.2%</b>	<b>-0.2%</b>	<b>-0.4%</b>	<b>-0.2%</b>	<b>-0.1%</b>	<b>-0.4%</b>	<b>-0.4%</b>	<b>-1.9%</b>
Rock County	0.0%	-0.1%	0.0%	0.0%	0.0%	-0.1%	-0.3%	-0.6%
State of Wisconsin	0.1%	0.2%	0.2%	0.3%	0.4%	0.4%	0.1%	1.7%

Source: U. S. Census Bureau & Demographic Services Center, WIDOA



Figure 4 and Table 4 illustrate the population for the Clinton Community School District at Census 2000 and Census 2010, showing the change in age structure. While slightly dated, the Census counts point to certain issues that are reflected in the district's enrollment now. In the school district:

- The total population grew by approximately 180 residents or 3.1%, less than Rock County's (5.3%) and the state's (6.0%) increase across the decade.
- The number of young people ages 0-14 decreased by 100 or 8%, and this age group's share of the total population slipped from 22.3% to 20%.
- Young adults (ages 20-34) in the area fell by 50 or 6%.
- Adults age 35-44 decreased by 200 or 27%. Some of this change was due to the large cohort of Baby Boomers (born 1946-1964, approximately ages 35-54 at 2000) aging out of this group. In contrast, the 45-64 age group increased 350 or 19% because the Boomers were 45-64 at 2010.
- Older adults age 65 and over increased 140 or 17%, and this age group's share of the total population rose from 12.3% to 14.3%.



**TABLE 4**  
**Population by Age and Gender, 2000-2010**  
**Clinton Community School District**

Age	2000 Census			Age	2010 Census		
	Males	Females	Total		Males	Females	Total
Under 5	182	168	350	Under 5	166	175	341
5 to 9	232	201	433	5 to 9	211	199	410
10 to 14	246	256	502	10 to 14	225	209	434
15 to 19	242	196	438	15 to 19	248	224	472
20 to 24	148	117	265	20 to 24	141	124	265
25 to 29	149	153	302	25 to 29	168	141	309
30 to 34	178	172	350	30 to 34	142	151	293
35 to 39	214	244	458	35 to 39	165	176	341
40 to 44	251	236	487	40 to 44	195	210	405
45 to 49	242	221	463	45 to 49	255	256	511
50 to 54	222	212	434	50 to 54	258	228	486
55 to 59	169	158	327	55 to 59	230	209	439
60 to 64	118	116	234	60 to 64	196	179	375
65 to 69	86	100	186	65 to 69	122	135	257
70 to 74	74	85	159	70 to 74	112	93	205
75 to 79	64	83	147	75 to 79	66	87	153
80 to 84	33	69	102	80 to 84	46	61	107
85plus	35	79	114	85plus	34	92	126
	2,885	2,866	5,751		2,980	2,949	5,929

Source: U. S. Census Bureau

## Residential Development

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Examining trends in recent housing development can help to explain how in-migration into the Clinton Community School District area might be affecting school enrollment. If the number of housing starts in the district area is expected to be reasonably consistent for the next several years, then we assume that in-migration of school-age children will also remain relatively consistent. If the number of housing starts is expected to increase significantly above and beyond recent levels, in-migration may play an increasing role in school district enrollment. However, it is important to recognize that the number of housing starts in any given year is dependent upon a large number of confounding variables (decisions of local, county, and state policy makers, residential developers, interest rates, demand for housing, etc.), making future growth patterns difficult to predict.



Table 5 below and Figure 5 on the next page show the number of housing starts in the four primary municipalities of the Clinton Community School District over the past ten years. Housing starts were highest in 2007, and have been minimal since then. All of the new construction in the area has been single-family homes. Nearly two-thirds of new homes have been built in Clinton and Turtle towns over the past 10 years.

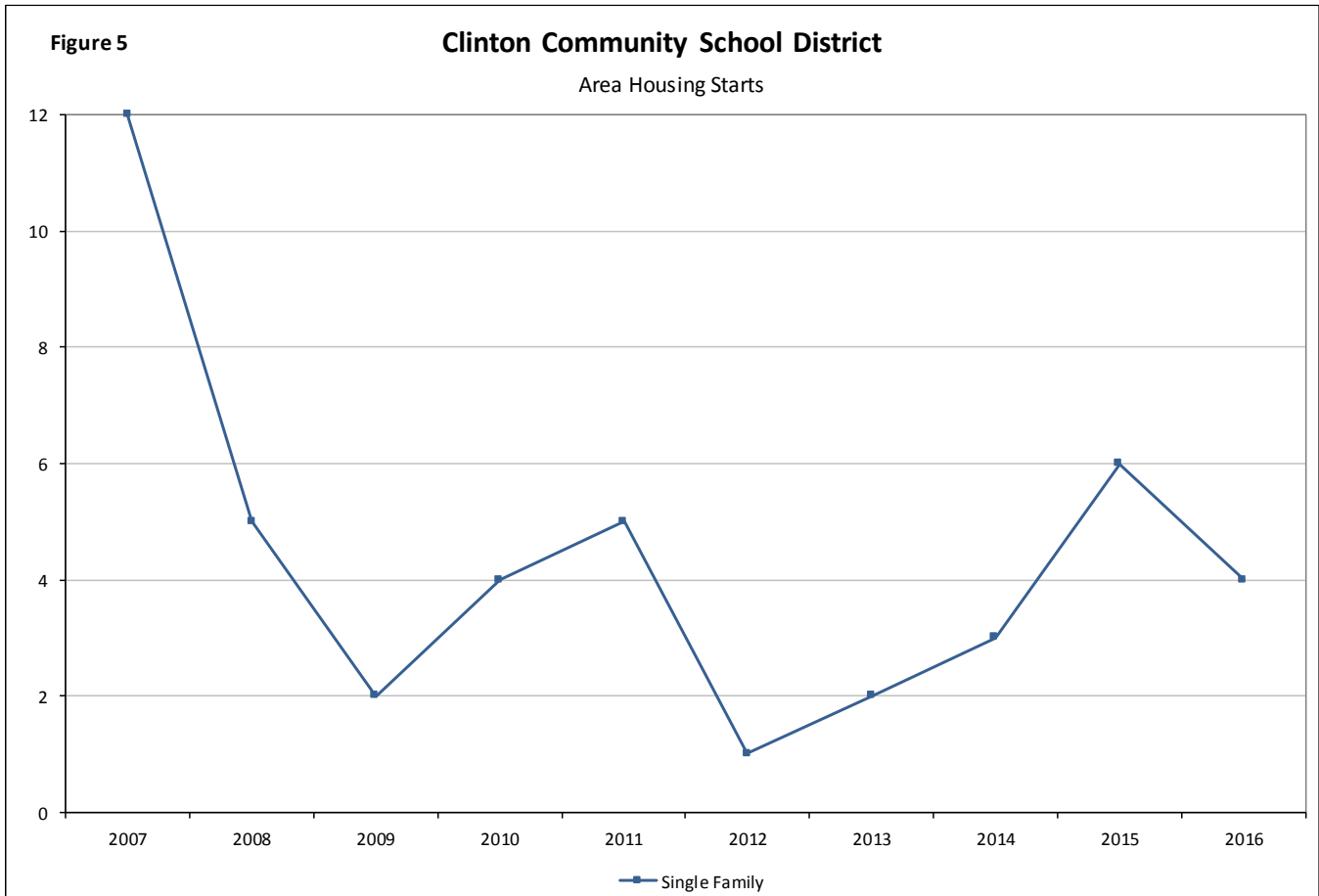
**TABLE 5**  
**School District Area Housing Starts**  
**Clinton Community School District**

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>District Area</b>										
<b>TOTAL</b>	<b>12</b>	<b>5</b>	<b>2</b>	<b>4</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>6</b>	<b>4</b>
Single Family	12	5	2	4	5	1	2	3	6	4
Two Family	0	0	0	0	0	0	0	0	0	0
Multi-family	0	0	0	0	0	0	0	0	0	0
<b>Clinton village</b>										
<b>TOTAL</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>
Single Family	3	0	0	0	1	0	0	0	1	1
Two Family	0	0	0	0	0	0	0	0	0	0
Multi-family	0	0	0	0	0	0	0	0	0	0
<b>Bradford town</b>										
<b>TOTAL</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>
Single Family	4	3	1	2	0	0	0	0	1	0
Two Family	0	0	0	0	0	0	0	0	0	0
Multi-family	0	0	0	0	0	0	0	0	0	0
<b>Clinton town</b>										
<b>TOTAL</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>2</b>
Single Family	3	0	1	1	2	1	0	2	1	2
Two Family	0	0	0	0	0	0	0	0	0	0
Multi-family	0	0	0	0	0	0	0	0	0	0
<b>Turtle town</b>										
<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1</b>
Single Family	2	2	0	1	2	0	2	1	3	1
Two Family	0	0	0	0	0	0	0	0	0	0
Multi-family	0	0	0	0	0	0	0	0	0	0

Source: Demographic Services Center, WIDOA







It is also important to consider that turnover in ownership of existing housing stock can contribute to changes in enrollment. A district can maintain or even increase enrollment depending upon the cycle of resident homeowners, regardless of housing starts. For instance, a younger community will have a higher child-per-household ratio, whereas an older community will have a lower child-per-household ratio. As younger families move into the area, the school district will tend to see new students enrolling into the district's schools. Absent new housing development or housing turnover, families age in place and the number of school-aged children eventually declines.



## Projection Method

In order to generate school enrollment projections, we rely on a commonly used demographic technique called the “cohort survival method,” also called the “grade progression ratio method” when applied in an educational setting. This method advances current students through the school system over time and applies rates of transfer (or “survival”) as the students who are now in school age from year to year and grade to grade. It is through these rates of transfer that we make assumptions about how migration into and out of the district and transfers to and from different schools or home schooling will impact future enrollment. In order to project incoming 4K and kindergarten students, we gather data on births from the Wisconsin Department of Health Services and assume that, based on recent historical patterns, a certain percentage of the children born to mothers residing in the school district area will enroll in 4K and 5K four to five years later.

### Grade Progression Ratios

In order to predict future enrollment under different growth assumptions, four sets of grade progression ratios are calculated:

- Baseline: averages 10 years of progression ratios, with outlying ratios (those outside of one standard deviation of the mean) excluded;
- Five-year Trend: averages the past five years of progression ratios with no exclusions;
- Two-year “Trend”: averages the past two years of progression ratios with no exclusions;

Table 6 shows the grade progression ratios for the Clinton Community School District.

**TABLE 6**  
**Grade Progression Ratios**  
**Clinton Community School District**

YEAR CHANGES	B:K	K:1	1:2	2:3	3:4	4:5	5:6	6:7	7:8	8:9	9:10	10:11	11:12
08-09/09-10	1.595	1.041	1.030	1.027	0.964	1.115	0.989	0.905	0.966	0.978	1.029	1.086	0.979
09-10/10-11	1.197	1.036	0.987	0.985	1.066	0.988	1.000	0.989	1.104	1.023	1.033	0.963	1.000
10-11/11-12	1.728	1.045	1.000	1.026	1.015	1.173	1.038	1.069	1.057	1.054	1.102	1.074	1.029
11-12/12-13	1.452	1.024	1.086	1.080	1.090	1.059	1.032	1.060	1.000	1.086	1.051	0.918	1.010
12-13/13-14	1.100	0.947	1.071	1.026	1.011	1.024	1.014	1.020	1.023	1.011	1.000	1.061	1.045
13-14/14-15	1.272	1.091	1.014	0.978	1.013	1.053	0.989	1.027	0.980	1.022	1.011	0.970	0.977
14-15/15-16	1.268	1.060	0.944	0.917	1.034	0.987	1.050	1.000	1.067	0.969	0.967	1.053	1.000
15-16/16-17	1.189	1.028	0.958	1.074	1.106	1.000	1.077	1.019	0.977	1.000	0.968	1.079	0.960
16-17/17-18	1.285	0.923	1.068	1.029	1.068	1.055	0.967	1.024	0.972	0.976	1.013	0.989	0.917
<b>Baseline</b>	<b>1.277</b>	<b>1.039</b>	<b>1.020</b>	<b>1.012</b>	<b>1.034</b>	<b>1.038</b>	<b>1.016</b>	<b>1.020</b>	<b>1.011</b>	<b>1.002</b>	<b>1.023</b>	<b>1.027</b>	<b>0.994</b>
<b>5 Year Trend</b>	<b>1.223</b>	<b>1.010</b>	<b>1.011</b>	<b>1.005</b>	<b>1.046</b>	<b>1.024</b>	<b>1.019</b>	<b>1.018</b>	<b>1.004</b>	<b>0.996</b>	<b>0.992</b>	<b>1.030</b>	<b>0.980</b>
<b>2 Year "Trend"</b>	<b>1.237</b>	<b>0.976</b>	<b>1.013</b>	<b>1.051</b>	<b>1.087</b>	<b>1.027</b>	<b>1.022</b>	<b>1.021</b>	<b>0.974</b>	<b>0.988</b>	<b>0.990</b>	<b>1.034</b>	<b>0.938</b>

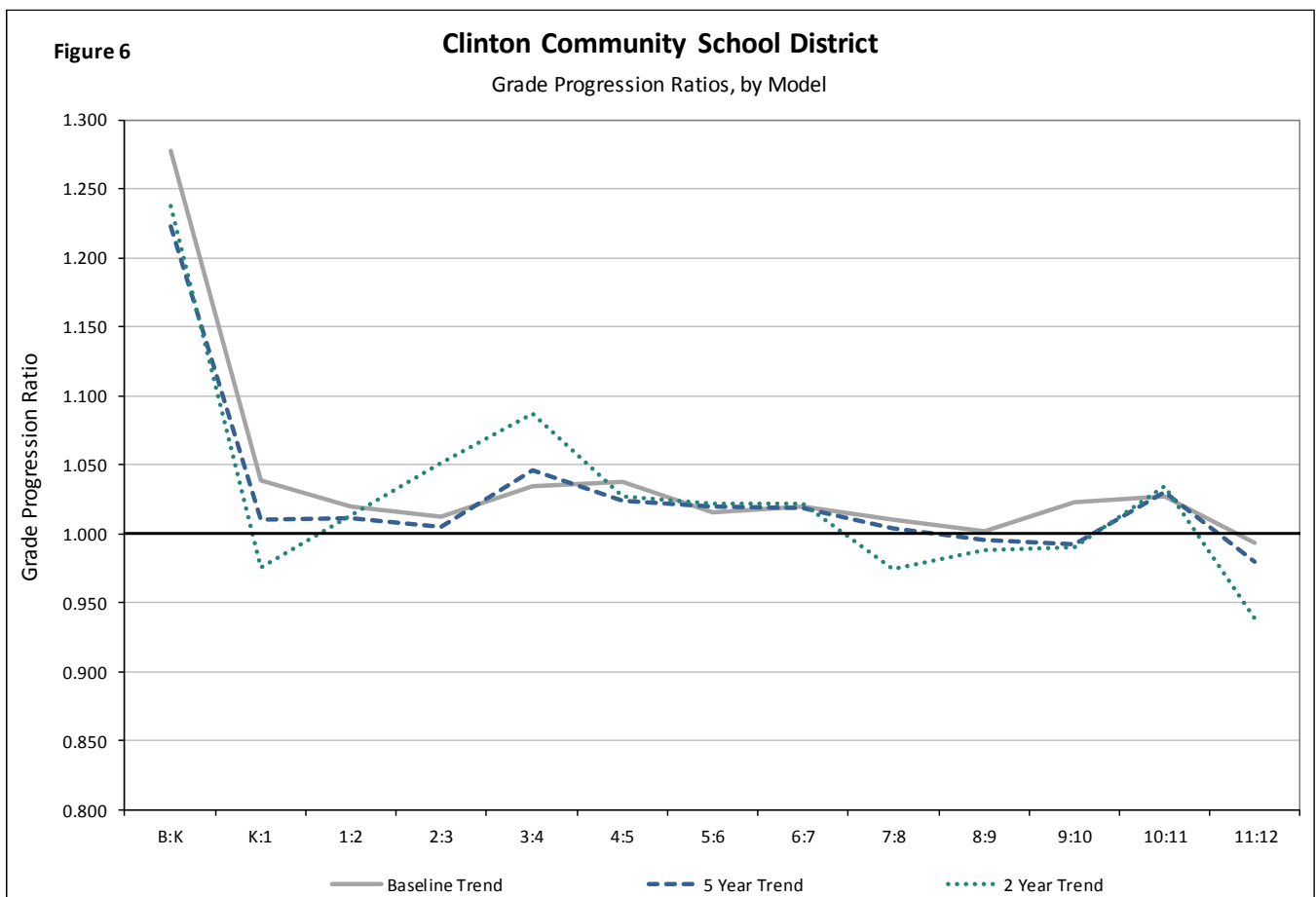
\*Shaded progression ratios are excluded from the Baseline Average



As examples, the grade progression ratios can be interpreted in the following manner:

- The Baseline ratio for 1:2 is 1.020. This means that, in the Clinton Community School District, the second grade is on average 2% larger (2 students per 100) than the first grade class of the previous year, the result of transfers from other schools and net in-migration into the district.
- The Two Year Trend ratio for 7:8 of 0.974 indicates that, averaging the past two years, the district's eighth grade enrollment is roughly 2.6% smaller than the seventh grade in the previous year.

Figure 6 illustrates the patterns among the three grade progression ratios. The trend lines generally are above 1.0 through the grade 6:7 transition, indicating that enrollment, on average, tends to increase year to year as each cohort of students age through their schooling. Progression rates for older classes are more mixed, but hover close to 1.0. The apparently high Birth:Kindergarten (B:K) ratios are related to the birth data from the Department of Health Services being available for whole municipalities only; for example, births from the part of La Prairie town in the district are not included.



Given that the Clinton Community School District has had a 4K program for more than 10 years, Baseline, 5-Year and 2-Year trends may be calculated that relate births to 4K enrollment, similar to the B:K ratios displayed above.

Table 7 shows the observed progression ratios between births and 4K and between 4K and kindergarten for the Clinton Community School District. The same three grade progression techniques are applied as with kindergarten through 12<sup>th</sup> grade. Across the three models, the birth-to-4K ratios are quite close, ranging from 1.12 to 1.13. The 4K:K ratios are not used in the projections calculations, but provide an indication that kindergarten classes are roughly 13% to 19% larger than the prior year's 4K.

**TABLE 7**  
**4K Grade Progression Ratios**  
**Clinton Community School District**

	<b>B:4K</b>	<b>4K:K</b>
08-09/09-10	1.125	1.183
09-10/10-11	1.416	1.063
10-11/11-12	1.123	1.221
11-12/12-13	0.917	1.293
12-13/13-14	1.196	1.200
13-14/14-15	1.215	1.063
14-15/15-16	1.024	1.044
15-16/16-17	1.071	1.161
16-17/17-18	1.164	1.200
<b>Baseline</b>	<b>1.131</b>	<b>1.193</b>
<b>5 Year Trend</b>	<b>1.134</b>	<b>1.134</b>
<b>2 Year "Trend"</b>	<b>1.118</b>	<b>1.180</b>



## School Enrollment Projections

When considering all of the projections provided in this report for decision-making, it is important to recognize that population projections of all types, including school enrollment projections, are more accurate in the immediate future than they are farther into the future. This is especially true for grades 4K-4, because many of the students who may enroll in 4K starting in 2022/23 and kindergarten in 2023/24 have not yet been born. Overall, our projections are more reliable over the next five years (up to the 2022/23 school year) than they are in the latter half of the next decade.

### Baseline Projection

The Baseline model (Table 8) projects enrollments using the assumption that relatively long-term progression ratios, year to year and grade to grade, will continue into the future, as well as the longer-range trend in births. This model projects that 4K-12 enrollment in the Clinton Community School District will decline gradually the next five years, from 1,096 students in 2017/18 to 1,041 in 2022/23, a decrease of 55 or -5.0%. The model then predicts continued declines through 2027/28.

**TABLE 8**  
**Baseline Projection Model**  
**Clinton Community School District**

	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	61	59	50	50	52	51	50	49	49	48
K	64	69	66	57	57	59	58	58	57	56
1	62	67	71	69	59	60	62	61	60	59
2	61	64	68	73	70	60	61	63	62	61
3	79	62	64	69	73	71	61	62	64	63
4	72	82	64	67	71	76	74	63	64	66
5	81	75	85	66	69	74	79	76	65	66
6	78	82	76	86	68	70	75	80	78	66
7	91	80	84	78	88	69	72	77	82	79
8	87	92	81	85	79	89	70	72	77	83
9	104	87	92	81	85	79	89	70	72	78
10	84	107	89	94	83	87	81	91	71	74
11	83	86	109	91	97	85	89	83	93	73
12	90	83	86	109	91	96	84	89	82	93
<b>TOTAL</b>	<b>1,098</b>	<b>1,093</b>	<b>1,086</b>	<b>1,074</b>	<b>1,041</b>	<b>1,026</b>	<b>1,004</b>	<b>993</b>	<b>976</b>	<b>964</b>
K-12	1,038	1,034	1,036	1,024	990	975	954	943	927	916
K-4	339	342	334	334	331	326	315	306	306	304
5-8	337	329	326	315	303	302	295	306	302	294
9-12	362	362	376	375	355	346	343	332	319	318



5 Year Trend Projection

The 5 Year Trend model (Table 9) averages the grade progression ratios from the last five years and recent trends in the number of births in the school district area to project what future enrollments would look like if more recent patterns were representative of future trends. With these recent progression rates and birth trends weighted more heavily, 4K-12 enrollment in the Clinton Community School District is projected to decline over the next five years, from 1,096 students in 2017/18 to 1,000 in 2022/23, a decrease of 96 or -8.7%. The model then predicts continued decline through 2027/28.

**TABLE 9**  
**5 Year Trend Projection Model**  
**Clinton Community School District**

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	61	59	50	51	54	53	53	52	52	52
K	62	66	64	54	55	58	57	57	56	56
1	61	62	66	64	55	56	58	58	57	57
2	61	61	63	67	65	55	57	59	59	58
3	78	61	62	63	67	65	56	57	59	59
4	73	82	64	64	66	70	68	58	59	62
5	80	75	84	65	66	68	72	70	60	61
6	78	81	76	86	67	67	69	73	71	61
7	91	80	83	78	87	68	68	70	75	73
8	86	91	80	83	78	87	68	69	70	75
9	104	86	91	80	83	78	87	68	68	70
10	81	103	85	90	79	82	77	86	67	68
11	83	84	106	88	93	82	85	79	89	69
12	89	82	82	104	86	91	80	83	78	87
<b>TOTAL</b>	<b>1,088</b>	<b>1,072</b>	<b>1,055</b>	<b>1,037</b>	<b>1,000</b>	<b>980</b>	<b>955</b>	<b>940</b>	<b>922</b>	<b>907</b>
K-12	1,027	1,013	1,005	986	947	927	902	888	870	856
K-4	334	332	318	313	308	305	296	289	291	292
5-8	335	327	323	312	298	290	277	282	276	269
9-12	357	354	364	361	341	332	329	316	302	294



2 Year "Trend" Projection

The 2 Year "Trend" model (Table 10) averages the grade progression ratios from the last two years to project what future enrollments would look like if even more recent patterns were representative of future trends. For the 2 Year Trend model, 4K-12 enrollment in the Clinton Community School District is projected to decline from 1,096 students in 2017/18 to 1,010 in 2022/23, a decrease of 86 or -7.9%. The model then predicts continued decline through 2027/28.

**TABLE 10**  
**2 Year "Trend" Projection Model**  
**Clinton Community School District**

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	60	58	50	51	53	52	52	52	51	51
K	62	66	64	55	56	58	58	58	57	57
1	59	61	65	63	54	55	57	57	56	56
2	61	59	62	66	64	54	55	58	57	57
3	82	64	62	65	69	67	57	58	61	60
4	76	89	69	68	70	75	73	62	63	66
5	80	78	92	71	70	72	77	75	64	65
6	79	82	80	94	73	71	74	79	76	65
7	91	80	84	82	96	75	73	75	80	78
8	84	89	78	82	80	93	73	71	74	78
9	103	83	88	77	81	79	92	72	70	73
10	81	102	82	87	77	80	78	91	71	69
11	84	84	105	85	90	79	82	80	94	73
12	85	79	79	99	80	84	74	77	76	88
<b>TOTAL</b>	<b>1,086</b>	<b>1,074</b>	<b>1,059</b>	<b>1,042</b>	<b>1,010</b>	<b>995</b>	<b>975</b>	<b>965</b>	<b>951</b>	<b>937</b>
K-12	1,026	1,016	1,010	992	957	942	923	913	900	886
K-4	340	340	322	316	313	309	300	292	295	296
5-8	334	329	334	328	318	311	296	300	294	287
9-12	353	347	354	348	326	322	327	321	311	304



## Kindergarten Trend Projection

For this method we perform a trend analysis to project the number of future kindergarten students. Rather than relying upon the birth-to-K progression ratios used in the previous three models, the kindergarten enrollment of the past years is trended forward. Then, the 5 Year Trend grade progression ratios are used for projecting the other grades (1-12) in the district. Thus, this model assumes that the number of new kindergarteners each year over the next decade will continue to follow a trend similar to that of kindergarten enrollment over the last decade, regardless of the number of observed births in the school district area.

According to this projection method (Table 11), 4K-12 enrollment in the Clinton Community School District is projected to decline from 1,096 students in 2017/18 to 1,001 in 2022/23, a decrease of 95 or -8.7%. The model then predicts continued decline through 2027/28.

**TABLE 11**  
**Kindergarten Trend Projection Model**  
**Clinton Community School District**

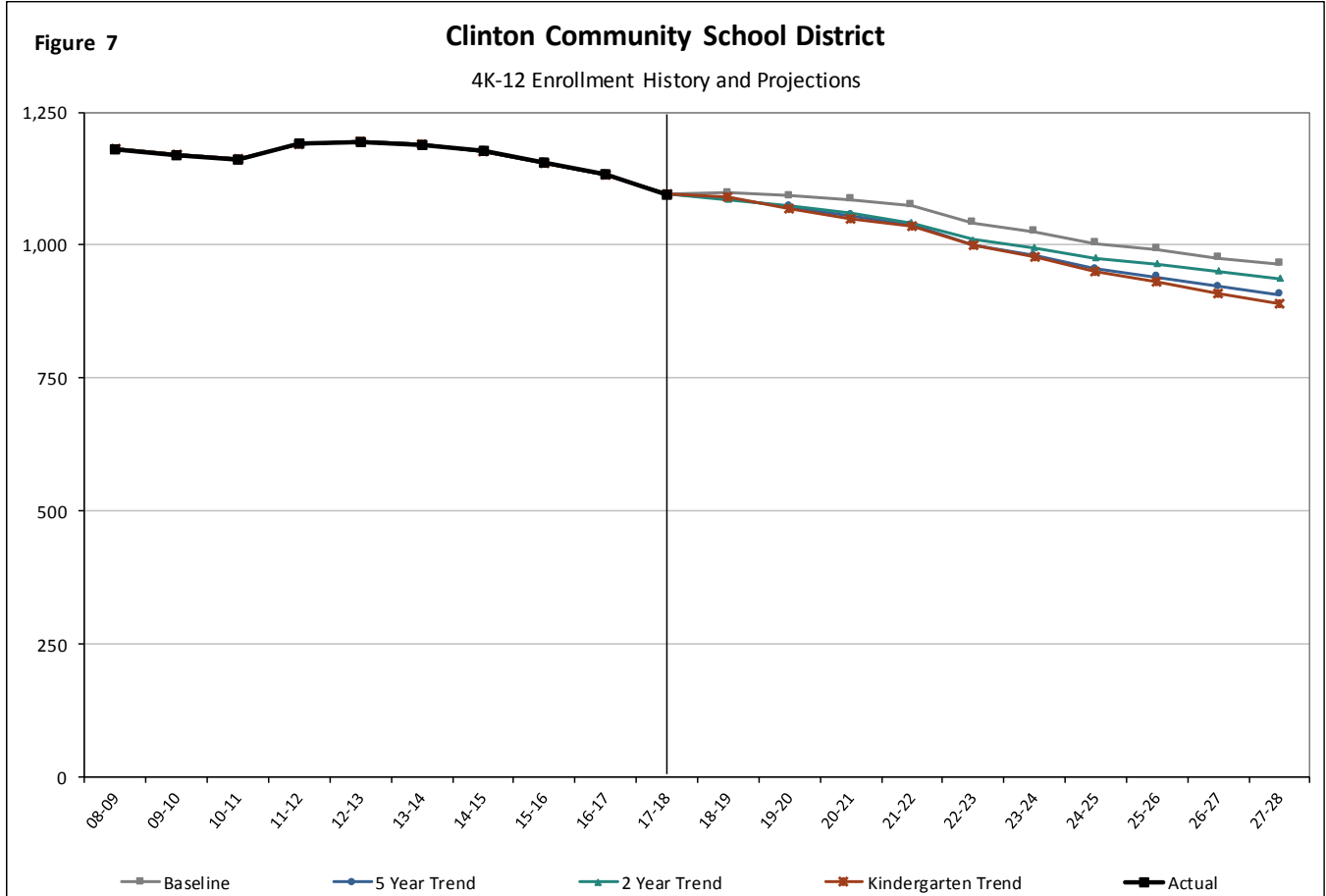
GRADE	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	61	59	50	51	54	53	53	52	52	52
K	63	62	60	59	57	56	55	53	52	50
1	61	64	62	61	59	58	57	55	54	52
2	61	61	64	63	61	60	59	57	56	54
3	78	61	62	65	63	62	60	59	57	56
4	73	82	64	64	68	66	65	63	62	60
5	80	75	84	65	66	69	68	66	65	63
6	78	81	76	86	67	67	71	69	67	66
7	91	80	83	78	87	68	68	72	70	69
8	86	91	80	83	78	87	68	69	72	70
9	104	86	91	80	83	78	87	68	68	72
10	81	103	85	90	79	82	77	86	67	68
11	83	84	106	88	93	82	85	79	89	69
12	89	82	82	104	86	91	80	83	78	87
<b>TOTAL</b>	<b>1,089</b>	<b>1,070</b>	<b>1,049</b>	<b>1,036</b>	<b>1,001</b>	<b>979</b>	<b>951</b>	<b>932</b>	<b>909</b>	<b>889</b>
K-12	1,029	1,011	999	984	947	926	898	880	857	837
K-4	336	329	312	311	309	302	295	287	280	273
5-8	335	327	323	312	298	292	275	276	274	268
9-12	357	354	364	361	341	332	329	316	302	296





## Comparison of Projection Models

Figures 7-11 and Tables 12-16 compare the four enrollment projection models broken down by total 4K-12 and K-12 district enrollment and by grade groupings.

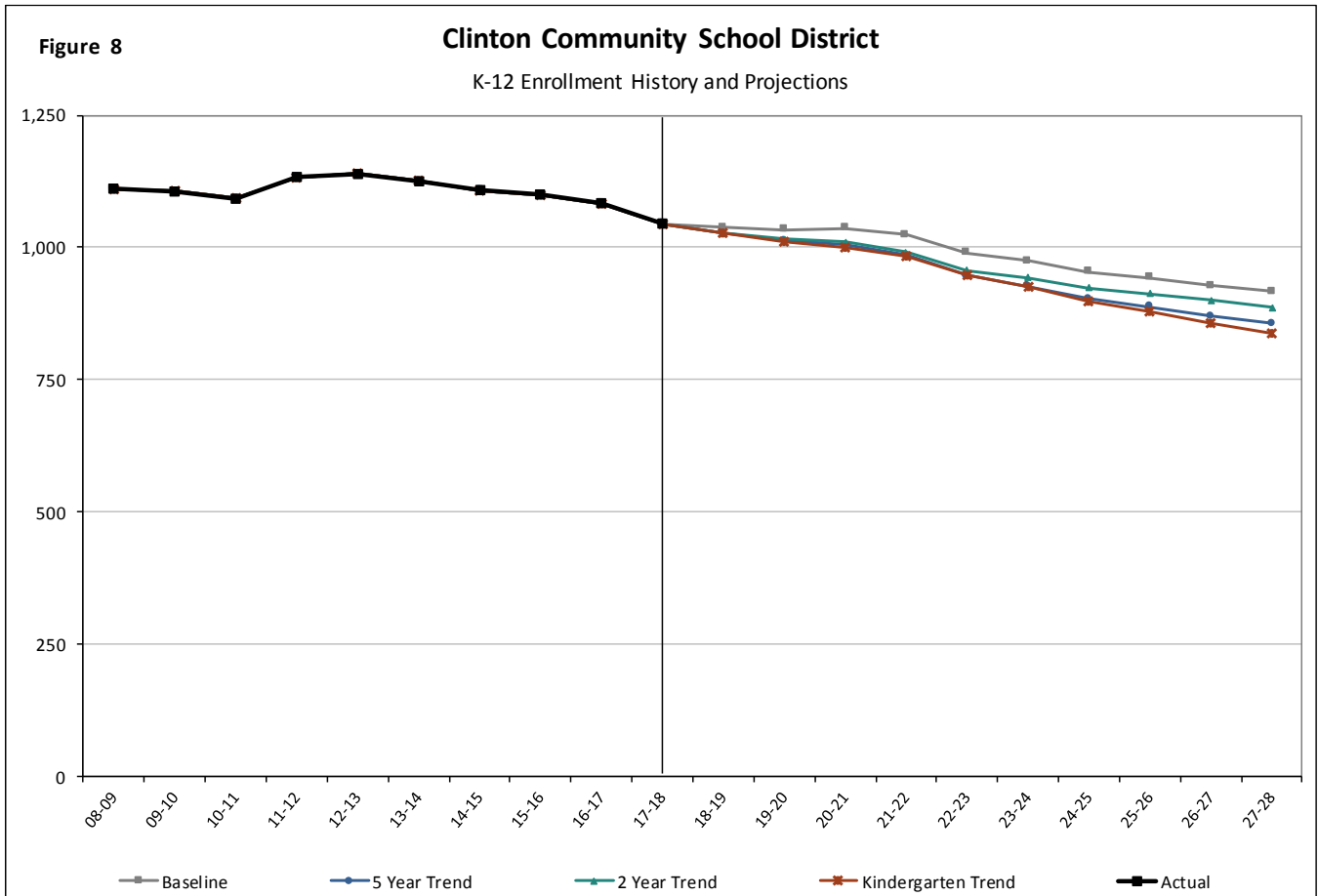


**TABLE 12**  
**Summary of 4K-12 Enrollment Projections**  
**Clinton Community School District**

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	1,098	1,093	1,086	1,074	1,041	1,026	1,004	993	976	964
5 Year Trend	1,088	1,072	1,055	1,037	1,000	980	955	940	922	907
2 Year "Trend"	1,086	1,074	1,059	1,042	1,010	995	975	965	951	937
Kindergarten Trend	1,089	1,070	1,049	1,036	1,001	979	951	932	909	889

From the 2017/18 enrollment of 1,096, all models predict decreases over the next five years; the projections five years from now (2022/23) range from 1,000 to 1,041 students, with the percentage declines spanning -5 to -9 percent. The models then project continued decreases.



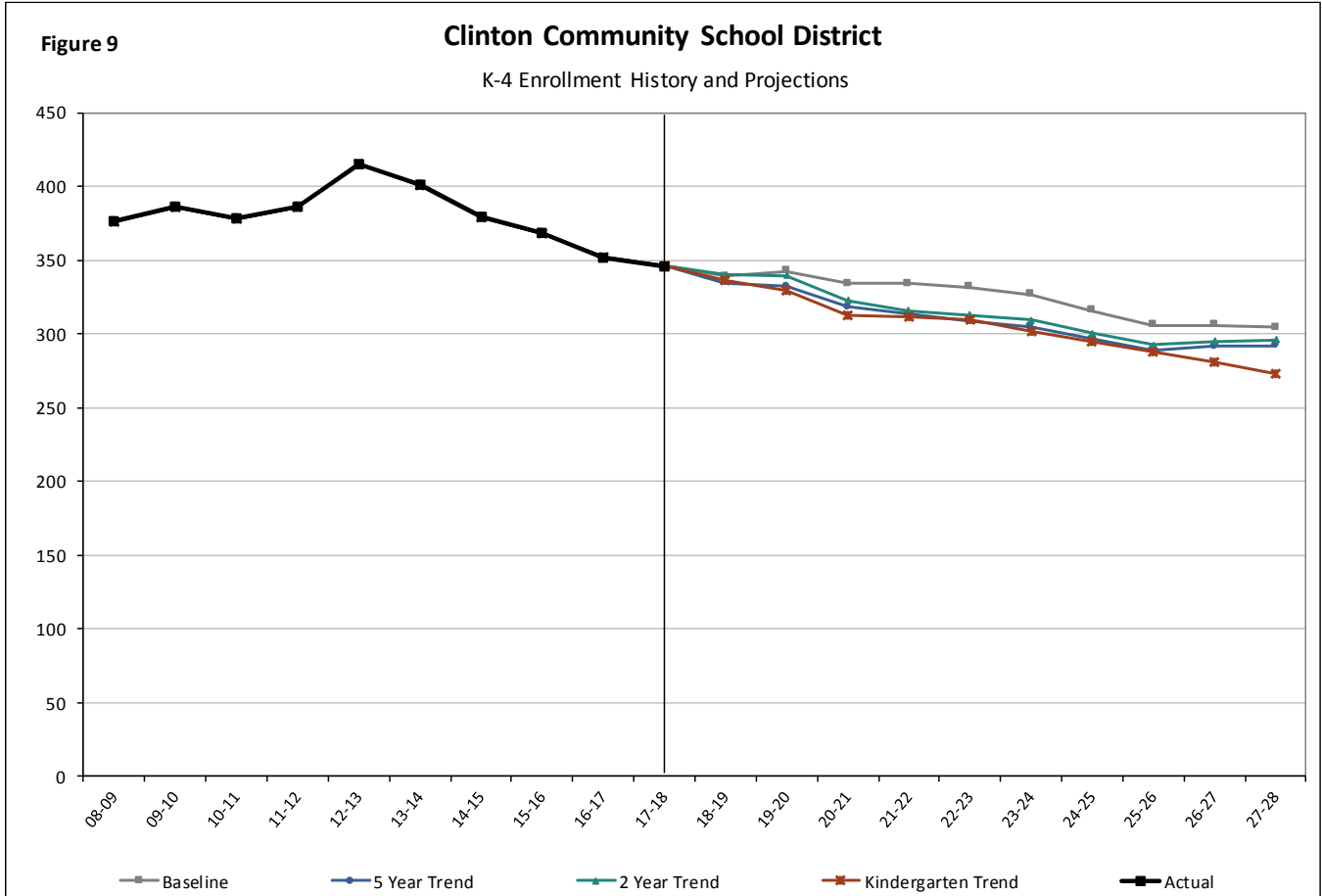


**TABLE 13**  
**Summary of K-12 Enrollment Projections**  
**Clinton Community School District**

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	1,038	1,034	1,036	1,024	990	975	954	943	927	916
5 Year Trend	1,027	1,013	1,005	986	947	927	902	888	870	856
2 Year "Trend"	1,026	1,016	1,010	992	957	942	923	913	900	886
Kindergarten Trend	1,029	1,011	999	984	947	926	898	880	857	837

From the 2017/18 enrollment of 1,044, all models predict decreases over the next five years; the projections five years from now (2022/23) range from 947 to 990 students, with the percentage declines spanning -5 to -9 percent. The models then project continued decreases.



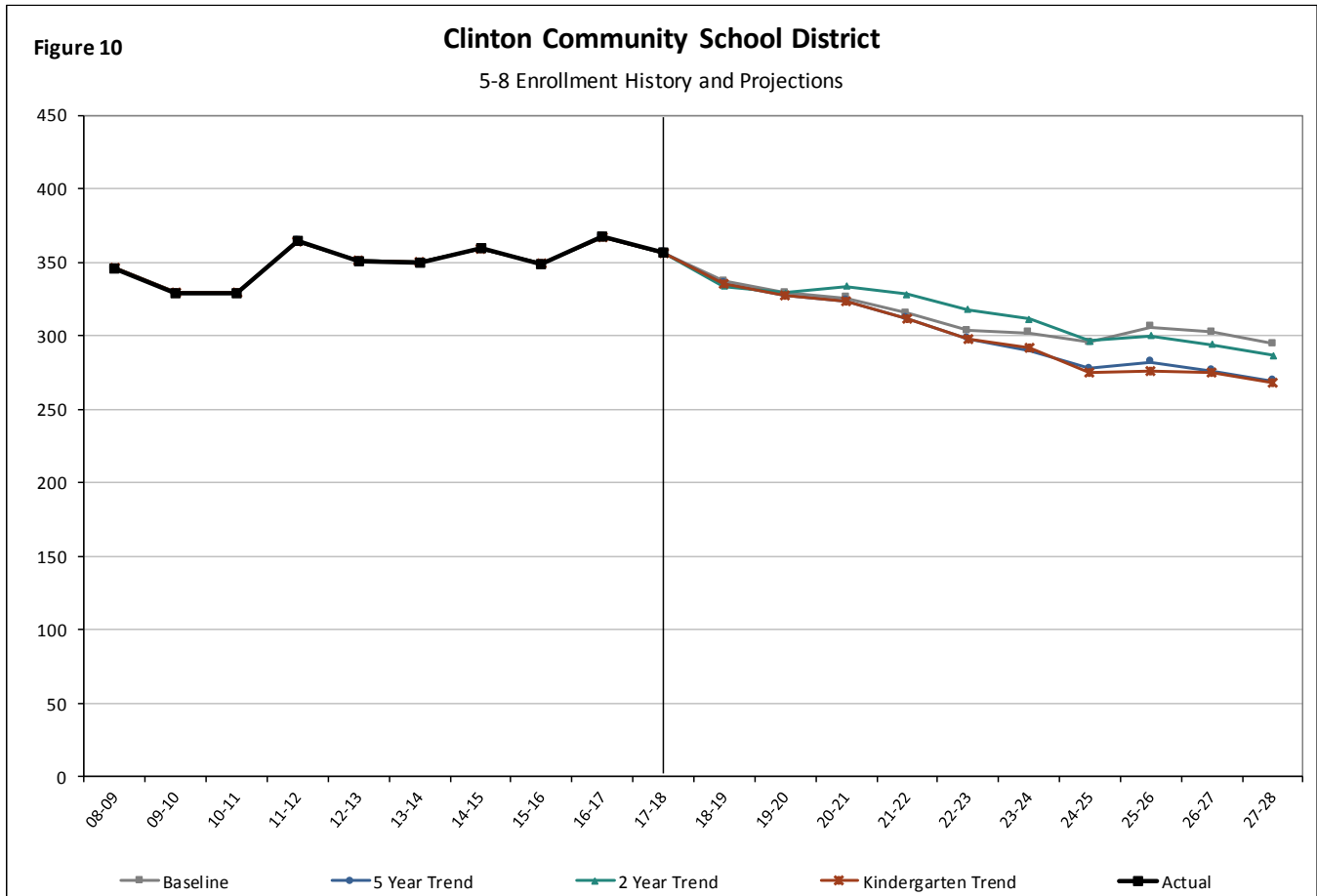


**TABLE 14**  
**Summary of K-4 Enrollment Projections**  
**Clinton Community School District**

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	339	342	334	334	331	326	315	306	306	304
5 Year Trend	334	332	318	313	308	305	296	289	291	292
2 Year "Trend"	340	340	322	316	313	309	300	292	295	296
Kindergarten Trend	336	329	312	311	309	302	295	287	280	273

From the K-4<sup>th</sup> grades' 2017/18 enrollment of 346, all models predict decreases over the next five years; the projections five years from now (2022/23) range from 308 to 331 students, with the percentage declines spanning -4 to -11 percent. The models then project continued decreases.



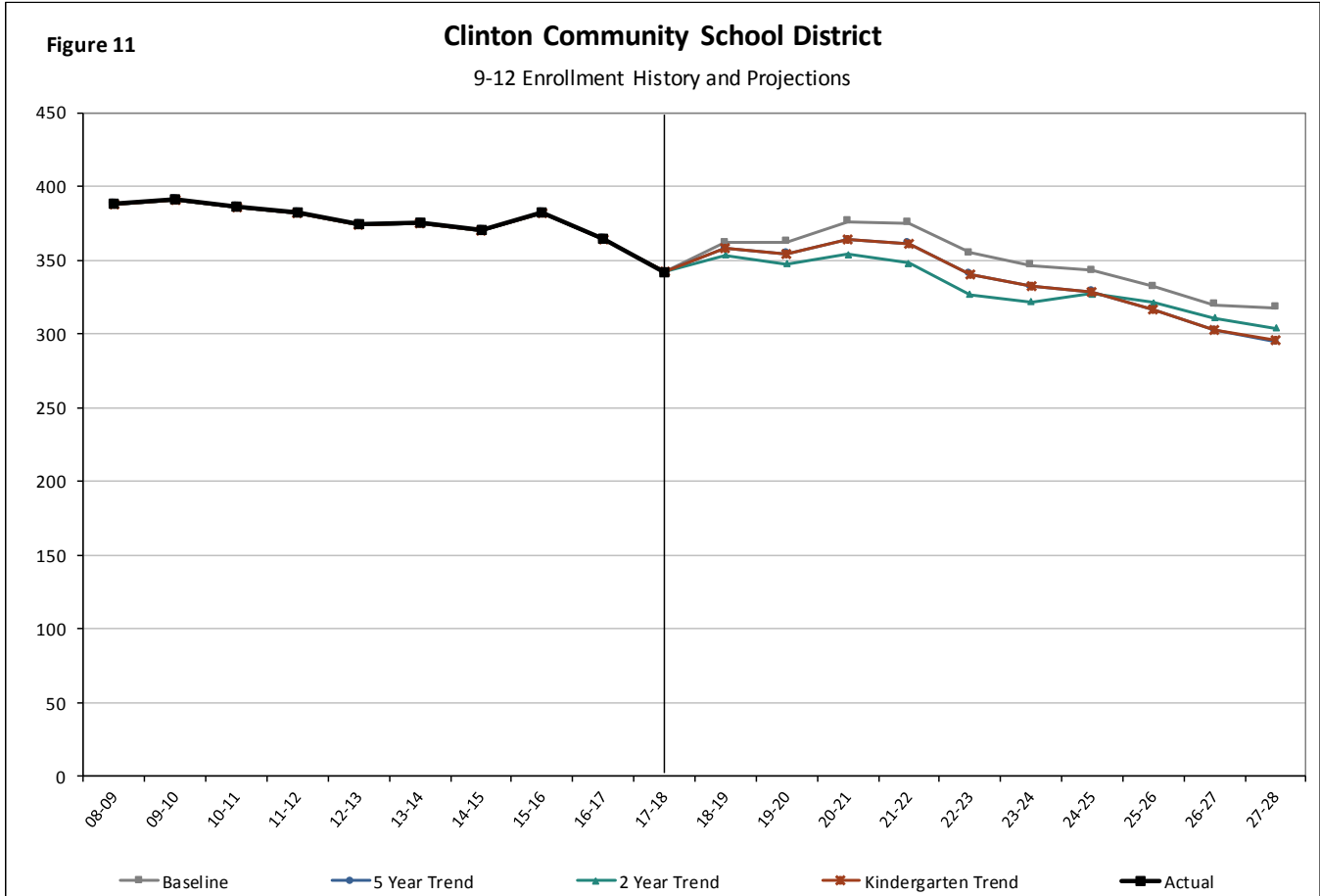


**TABLE 15**  
**Summary of 5-8 Enrollment Projections**  
**Clinton Community School District**

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	337	329	326	315	303	302	295	306	302	294
5 Year Trend	335	327	323	312	298	290	277	282	276	269
2 Year "Trend"	334	329	334	328	318	311	296	300	294	287
Kindergarten Trend	335	327	323	312	298	292	275	276	274	268

From the 5<sup>th</sup>-8<sup>th</sup> grades' 2017/18 count of 356 students, all models project decreasing enrollment for the middle school for the next five years, ranging from 298 to 318 students, with the percentage decline spanning -11 to -16 percent. A large share of the projected decrease is due to the current sizeable 8<sup>th</sup> grade cohort aging into the high school next year. All models predict a continued decline for a few additional years before stabilizing.





**TABLE 16**  
**Summary of 9-12 Enrollment Projections**  
**Clinton Community School District**

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	362	362	376	375	355	346	343	332	319	318
5 Year Trend	357	354	364	361	341	332	329	316	302	294
2 Year "Trend"	353	347	354	348	326	322	327	321	311	304
Kindergarten Trend	357	354	364	361	341	332	329	316	302	296

From the 9<sup>th</sup>-12<sup>th</sup> grades' 2017/18 count of 342 students, all four models project level enrollment to moderate gains in the high school for the next four years, buoyed by the large cohort of current 8<sup>th</sup> graders. The projections five years from now (2022/23) range from 326 to 355 students, with the percentage changes spanning -5 to +4 percent. Beyond that point, all models generally predict a decline through 2027/28.



## Conclusions

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These district-level enrollment projections are based on models that incorporate past and current demographic information and the district's own enrollment data. Because most of the students in the district's schools over the next few years have already been born or are already in school, and because their grade progression from one year to another is reasonably predictable, the total district-level projections should be viewed as having high accuracy over the next few years. After a few years, and increasingly for the lower elementary grades, actual enrollment figures will likely deviate from these projections by ever-increasing amounts. The reason for this divergence is that birth trends, in- and out-migration of pre-school age children, and transfers into the district are more difficult to predict, making meaningful incorporation into enrollment projections a challenge. As with nearly all types of forecasts, accuracy in these enrollment projections decreases over time.

Because the projections found in this report incorporate the consequences of migration to and from the district, any significant and sustained interruption of current or recent migration patterns will erode these models' accuracy from the initiation point of the new pattern. Overall, the various projection models provide a realistic range of migration effects on the school district.

In sum, this enrollment projections report points to these trends for the Clinton Community School District:

- Total 4K-12 enrollment through the next five years is predicted to decline, approximately 55 to 100 students, averaging from -1.0% to -1.7% annually. In comparison, the district has 100 fewer students in 2017/18 than in 2012/13, or -1.7% annually.
- Overall population change and births have been decreasing for many years. New housing construction has been minimal.
- The district's large net gain in Open Enrollment over the past ten years has helped to maintain its student count and minimize the decline of the past five years. Even assuming that the Open Enrollment net remains at its current levels, lower projected births in the area and larger cohorts reaching graduation point to a pattern of continuing decline.
- The elementary grades (K-4) are projected to decrease 15 to 38 students over five years, or roughly -1% to -2% annually.
- The middle school (grades 5-8) are predicted to decline from 38 to 58 students over five years, or approximately -2% to -3% annually.
- The high school (grades 9-12) should increase over the next four years, due to the large current 8<sup>th</sup> grade, but is then projected to decline.

The district should continue to monitor enrollment change, in particular the net effect of the Open Enrollment program, and compare it with these projections, to assess the district's trajectory of future growth and the best-fitting projection model.

