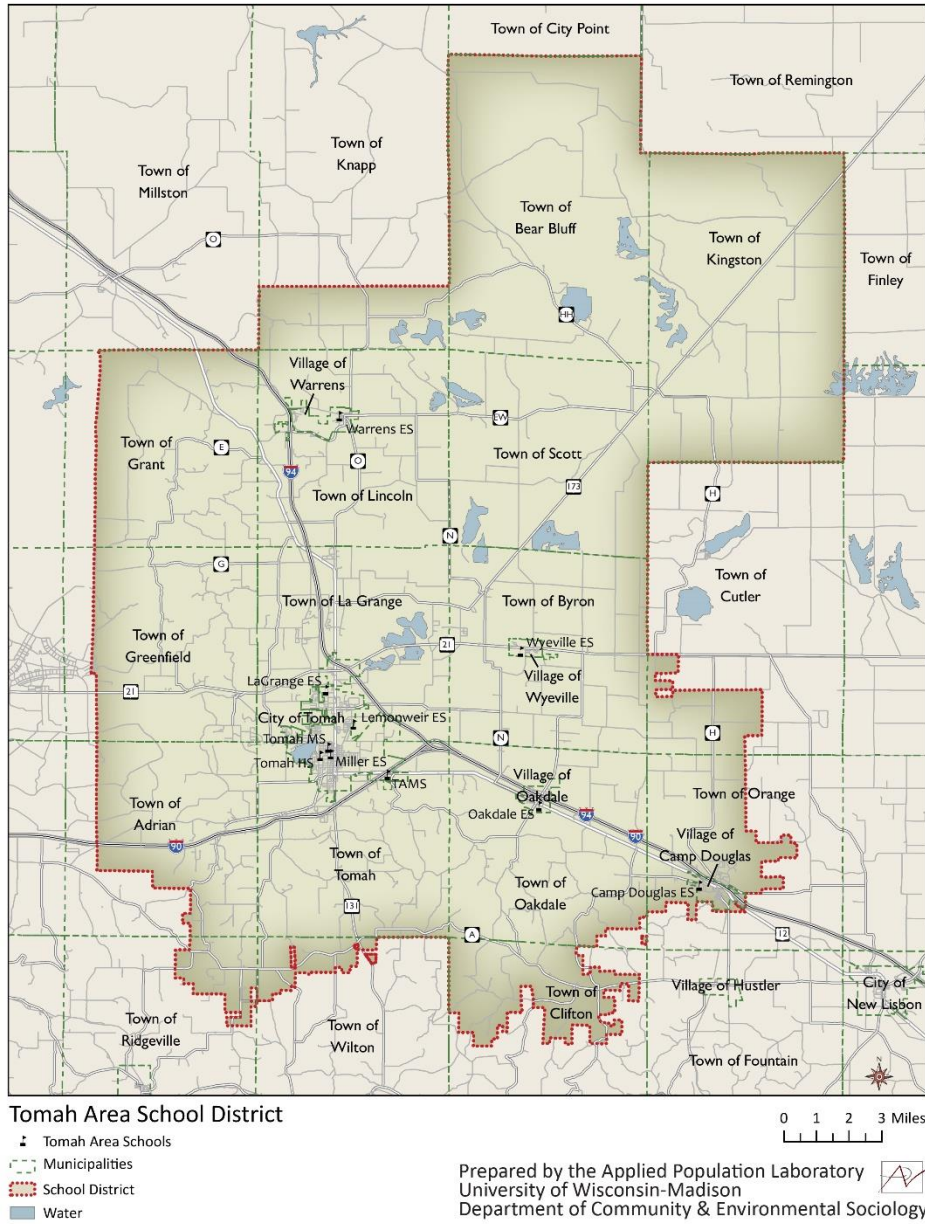


Planning for the Schools of Tomorrow



School Enrollment Projections Series Tomah Area School District

December 2017

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Introduction

This report offers a summary of the enrollment projection analyses completed for the Tomah Area School District by the Applied Population Laboratory, University of Wisconsin-Madison.

The report contains four sections:

- 1) A summary of recent demographic history about the school district and its component municipalities.
- 2) Projections based on the actual district enrollment (in-district students) of the past ten years.
- 3) Projections based on the count of students that reside in the district area, whether they attend the Tomah Area public schools or other public options. We adjust the in-district counts by excluding Open Enrollment students coming into the district, but including Open Enrollment “out” students and those enrolled in the Rural Virtual Academy. Thus, these projections provide a scenario as if there were no exchanges of students among public districts or the regional virtual academy. As shorthand, we refer to these counts as “FTE” (full-time equivalent) students.
- 4) Projections for the seven elementary schools. These projections are based from the actual enrollment histories of each school for the past ten years.

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.

General Demographics of the District Area

Birth Trends and Projections

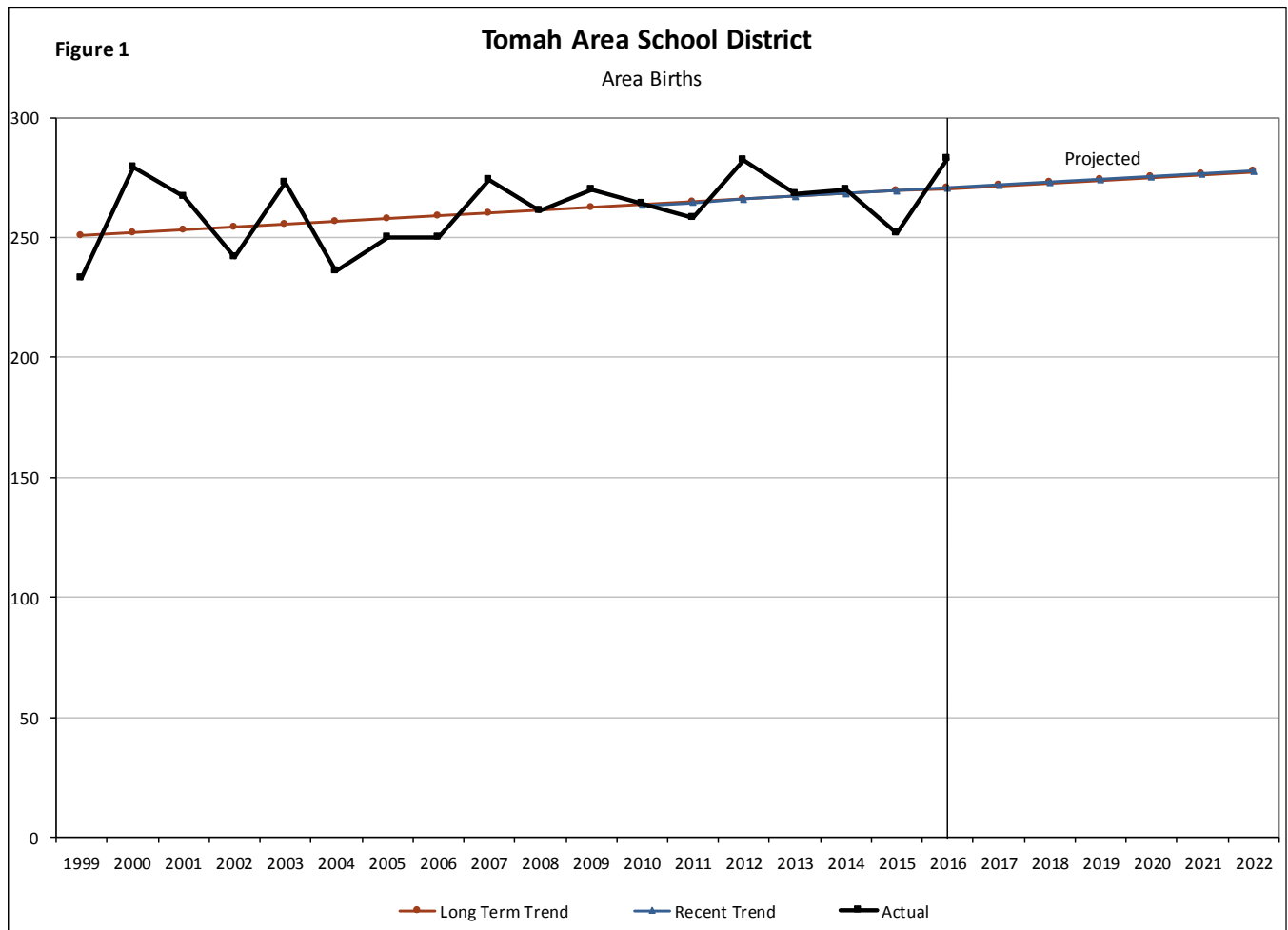
We use historical and projected birth data to forecast the number of 4K and 5K students who will enroll in the Tomah Area School District in future years. Birth data, as collected and summarized by the Wisconsin Department of Health Services, is available only at the municipal level. Thus, the birth history presented here includes eighteen municipalities that have all or most of their territory in the school district: the city of Tomah; the villages of Camp Douglas, Oakdale, Warrens and Wyeville; the towns of Adrian, Bear Bluff, Bryon, Clifton, Grant, Greenfield, Kingston, La Grange, Lincoln, Oakdale, Orange, Scott and Tomah.

We extrapolate long-and short-range birth trends into the future to correspond with our Baseline and Recent Trend projection models, using the B:4K and B:K progression ratios to transform births (B) into future 4-year-old and 5-year-old kindergarteners (4K and K).



Figure 1 shows (in black) the number of births to mothers living in these municipalities, by year, from 1999 through 2016.

- 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. While there has been variability in births in the area—from as few as 233 to as many as 283—the long term pattern indicates gradually increasing 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 since the 2007-2009 Great Recession—follows an almost identical trajectory to the long term trend.



Year	1999	2000	2001	2002	2003	2004	2005	2006	2007
# of Births	233	279	267	242	273	236	250	250	274
Year	2008	2009	2010	2011	2012	2013	2014	2015	2016
# of Births	261	270	264	258	282	268	270	252	283

Source: WI Department of Health Services



Population Estimates and Age Structure

This section examines population trends of the recent past for the Tomah Area 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 1 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 increased 2.4% since 2010, slightly behind Monroe County (+3.2%) but greater than Wisconsin (+1.8%). Eighty percent of the numeric gain (approximately 400 of 500 in the district's municipalities) has occurred in the City of Tomah.

TABLE 1
Total Population by Municipality: 2010-2017
Tomah Area School District

Municipality	POPULATION							
	Census 2010	est. 2011	est. 2012	est. 2013	est. 2014	est. 2015	est. 2016	est. 2017
Tomah city	9,093	9,138	9,174	9,192	9,204	9,221	9,345	9,491
Villages	1,408	1,408	1,407	1,408	1,405	1,401	1,404	1,396
Towns	9,944	9,964	10,002	10,036	10,051	10,091	10,082	10,045
District Area	20,445	20,510	20,583	20,636	20,660	20,713	20,831	20,932
Monroe County	44,673	44,877	45,056	45,198	45,339	45,494	45,865	46,109
State of Wisconsin	5,686,986	5,694,236	5,703,525	5,717,110	5,732,981	5,753,324	5,775,120	5,788,500

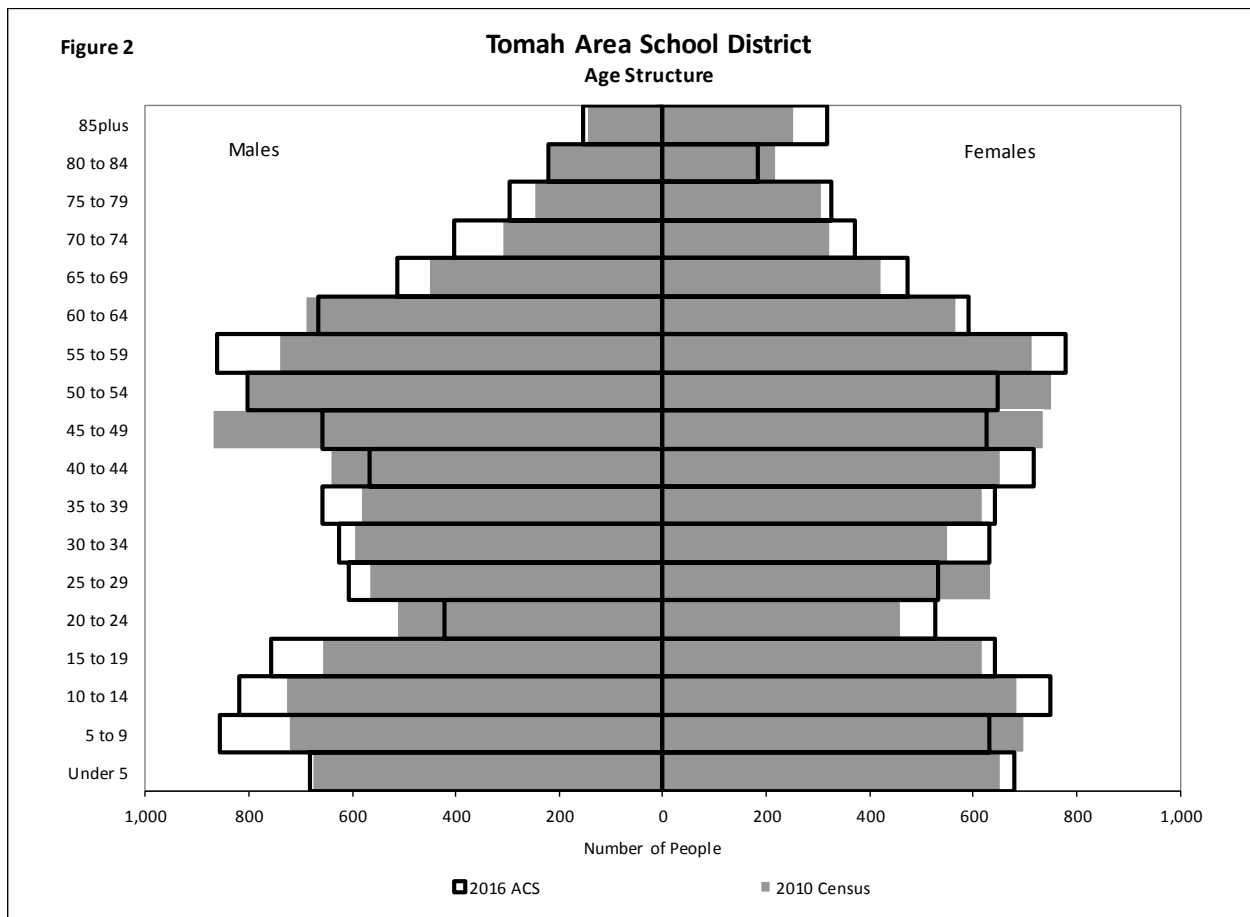
Municipality	PERCENT CHANGE							
	2010 to 2011	2011 to 2012	2012 to 2013	2013 to 2014	2014 to 2015	2015 to 2016	2016 to 2017	2010 to 2017
Tomah city	0.5%	0.4%	0.2%	0.1%	0.2%	1.3%	1.6%	4.4%
Villages	0.0%	-0.1%	0.1%	-0.2%	-0.3%	0.2%	-0.6%	-0.9%
Towns	0.2%	0.4%	0.3%	0.1%	0.4%	-0.1%	-0.4%	1.0%
District Area	0.3%	0.4%	0.3%	0.1%	0.3%	0.6%	0.5%	2.4%
Monroe County	0.5%	0.4%	0.3%	0.3%	0.3%	0.8%	0.5%	3.2%
State of Wisconsin	0.1%	0.2%	0.2%	0.3%	0.4%	0.4%	0.2%	1.8%

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



Figure 2 and Table 2 illustrate the population for the Tomah Area School District at Census 2010 and the 2016 American Community Survey, showing the change in age structure.¹ In the school district:

- The total population is estimated to have grown by more than 600 residents or 3.1%, twice the estimated rate for Monroe County (1.5%) and that for Wisconsin (1.2%).
- The number of young people ages 0-19 is estimated to have increased by 380 or 7%.
- Young adults (ages 20-44) are estimated to have remained relatively level in the area, increasing by 110 or 2%.
- Adults ages 45-64 are estimated to have decreased approximately 4%, but this change is largely due to the large cohort of Baby Boomers (born 1946-1964, approximately ages 45-64 at 2010) aging forward.
- Older adults age 65 and over are estimated to have increased about 360 or 11%.



¹ The American Community Survey is the Census Bureau’s primary vehicle to estimate the nation’s demographics between the decennial Censuses. The 2016 estimates displayed here are based on five years of surveys (2012-2016). Responses are weighted and averaged across this time frame, and have associated margins of error.



TABLE 2
Population by Age and Gender, 2010-2016
Tomah Area School District

Age	2010 Census			Age	2016 ACS		
	Males	Females	Total		Males	Females	Total
Under 5	677	653	1,330	Under 5	683	680	1,363
5 to 9	721	699	1,420	5 to 9	856	631	1,487
10 to 14	728	686	1,414	10 to 14	818	750	1,568
15 to 19	657	617	1,274	15 to 19	758	643	1,401
20 to 24	513	460	973	20 to 24	422	526	948
25 to 29	567	634	1,201	25 to 29	607	533	1,140
30 to 34	595	550	1,145	30 to 34	625	632	1,257
35 to 39	584	619	1,203	35 to 39	657	643	1,300
40 to 44	642	653	1,295	40 to 44	568	716	1,284
45 to 49	869	735	1,604	45 to 49	658	625	1,283
50 to 54	800	751	1,551	50 to 54	803	647	1,450
55 to 59	742	715	1,457	55 to 59	862	780	1,642
60 to 64	689	566	1,255	60 to 64	665	590	1,255
65 to 69	452	423	875	65 to 69	514	472	986
70 to 74	309	323	632	70 to 74	402	372	774
75 to 79	247	308	555	75 to 79	295	327	622
80 to 84	218	219	437	80 to 84	220	183	403
85plus	145	254	399	85plus	153	317	470
	10,155	9,865	20,020		10,566	10,067	20,633

Source: U. S. Census Bureau

Residential Development

Examining trends in recent housing development can help to explain how in-migration into the Tomah Area 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 3 shows the number of housing starts in the primary municipalities of the Tomah Area School District over the past ten years. Similar to birth data, housing change is available only at the municipal level; furthermore, data for the area's villages and towns have been consolidated. Housing starts in the past two years have reached the same levels as the construction activity in 2007 and 2008, before the start of the Great Recession.



TABLE 3
School District Area Housing Starts
Tomah Area School District

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
District Area										
TOTAL	100	98	77	64	54	43	34	34	95	101
Single Family	70	40	31	28	30	35	28	26	28	24
Two Family	14	6	18	18	4	8	6	8	16	26
Multi-family	16	52	28	18	20	0	0	0	51	51
C. Tomah										
TOTAL	42	62	54	39	26	14	19	10	75	82
Single Family	12	4	10	5	2	8	13	2	12	7
Two Family	14	6	16	16	4	6	6	8	12	24
Multi-family	16	52	28	18	20	0	0	0	51	51
Villages*										
TOTAL	13	2	3	1	2	4	0	1	6	3
Single Family	13	2	1	1	2	2	0	1	2	1
Two Family	0	0	2	0	0	2	0	0	4	2
Multi-family	0	0	0	0	0	0	0	0	0	0
Towns										
TOTAL	45	34	20	24	26	25	15	23	14	16
Single Family	45	34	20	22	26	25	15	23	14	16
Two Family	0	0	0	2	0	0	0	0	0	0
Multi-family	0	0	0	0	0	0	0	0	0	0

Source: Demographic Services Center, WIDOA

*Villages' data for 2007 includes units constructed at Three Bears Resort in Warrens

Figure 3-A shows the number of residential building permits issued by the city of Tomah, the villages and towns. Over the past ten years, 60% of the area's new units have been built in Tomah.

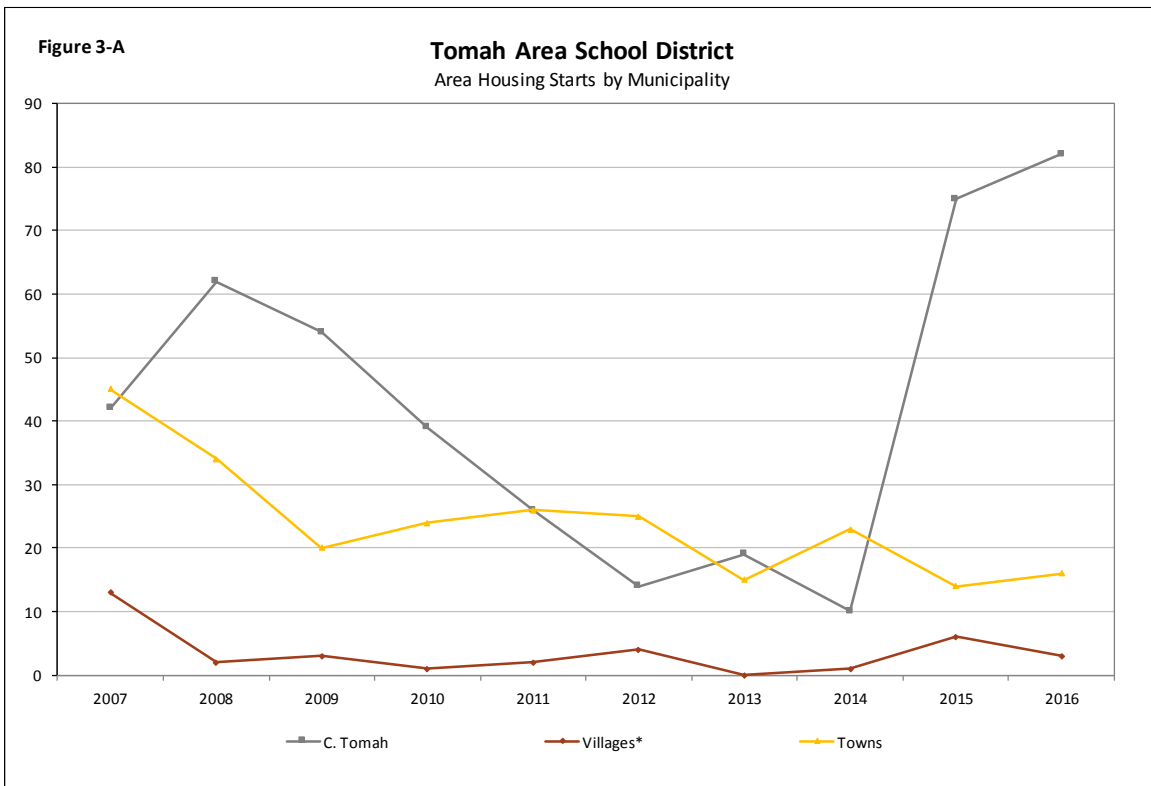
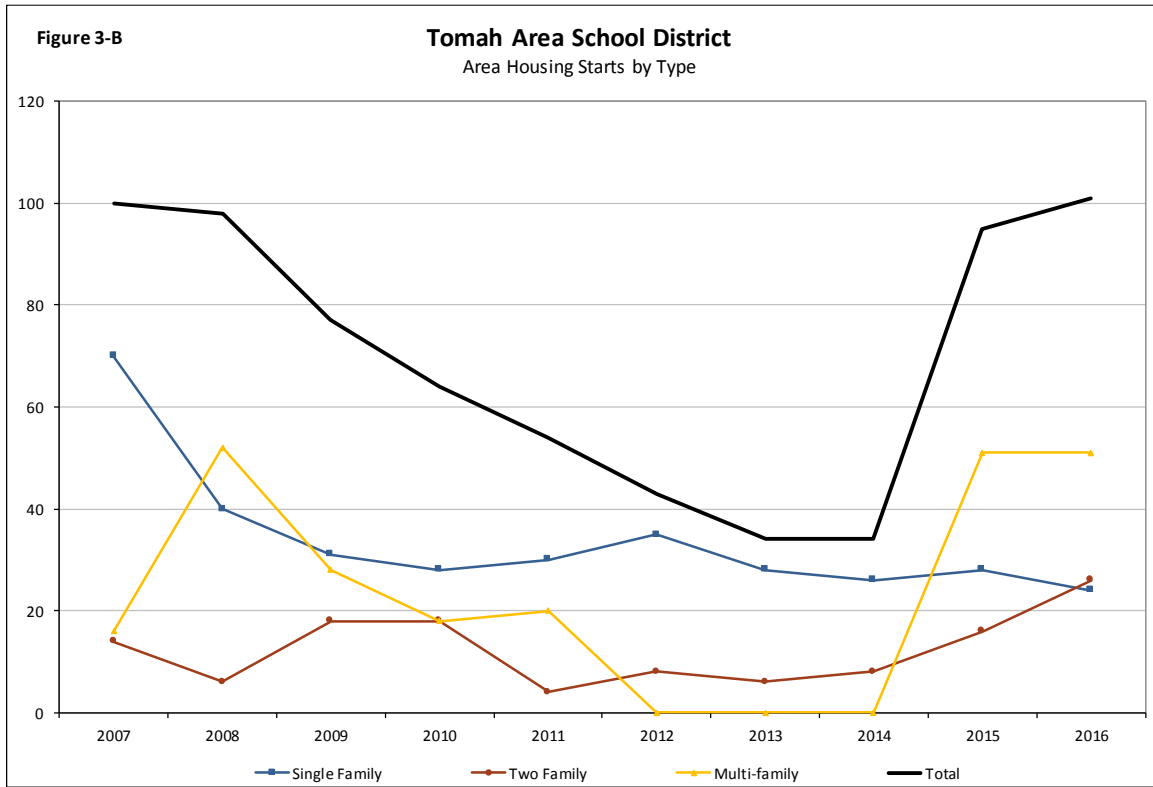


Figure 3-B shows housing starts in the area by type of housing unit—single-family home, duplex, and multi-family. Over the past 10 years, approximately one-half of new units have been single-family construction. More than one-third of the new units are in multi-family, with two large projects in Tomah city approved in the past two years.



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.



In-District Students

Enrollment History

Figure 4-A and Table 4 display the last ten years of in-district enrollment history in the Tomah Area School District. The initiation of a 4K program in 2009/10 boosted the District’s total enrollment. In general, K-12 enrollment has declined slightly over the past 10 years (75 students) although enrollment has increased in the past two years.

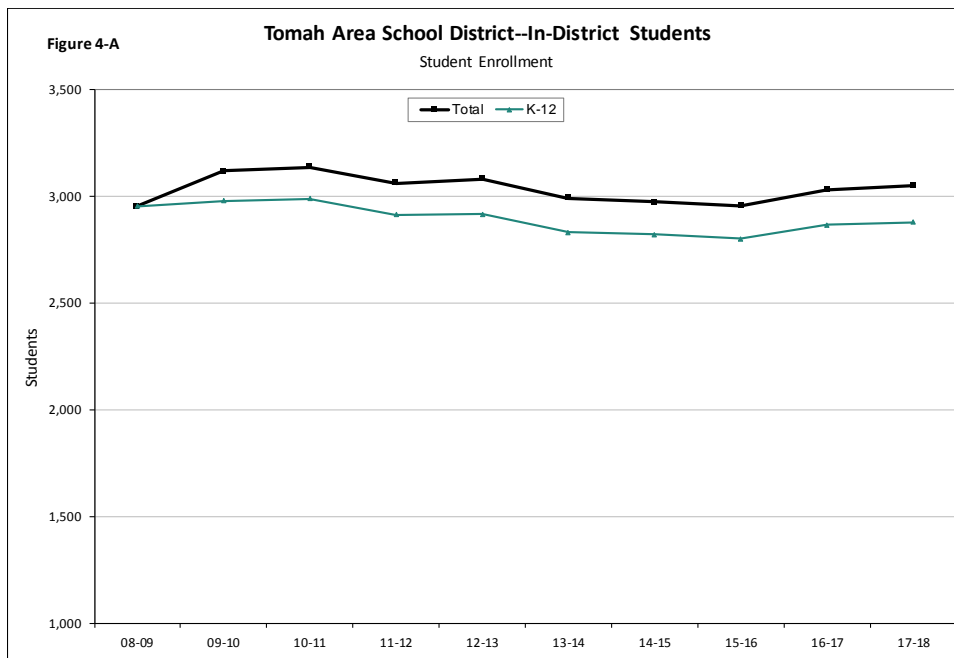


TABLE 4
Student Enrollment
Tomah Area School District--In-District Students

	SCHOOL YEAR									
	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
4K		141	147	148	164	161	153	156	164	173
K	195	235	197	217	210	202	215	197	202	221
1	181	202	243	190	207	216	204	218	198	204
2	233	189	206	241	190	211	225	208	217	199
3	222	228	198	199	235	188	213	210	216	218
4	233	226	237	199	207	222	190	212	218	214
5	192	226	231	229	196	199	221	188	229	216
6	217	191	228	233	238	189	198	228	196	235
7	248	216	202	232	228	237	183	196	231	194
8	222	247	220	198	225	223	232	191	214	233
9	242	246	263	224	223	240	246	256	214	233
10	271	238	246	248	227	222	235	247	254	211
11	265	258	233	246	254	229	219	228	233	258
12	230	274	283	256	274	251	238	220	242	240
TOTAL	2,951	3,117	3,134	3,060	3,078	2,990	2,972	2,955	3,028	3,049
K-12	2,951	2,976	2,987	2,912	2,914	2,829	2,819	2,799	2,864	2,876
K-5	1,256	1,306	1,312	1,275	1,245	1,238	1,268	1,233	1,280	1,272
6-8	687	654	650	663	691	649	613	615	641	662
9-12	1,008	1,016	1,025	974	978	942	938	951	943	942



The number of in-district students is impacted by a negative net pattern of the Open Enrollment Program. However, the net difference has been relatively stable for the past five school years.

TABLE 4-B
Open Enrollment Transfers
Tomah Area School District

School Year	In	Out	Net	Net Change by Grade Groupings		
				K-5	6-8	9-12
2008-09	27	62	-35	-8	-9	-18
2009-10	32	83	-51	-17	-10	-20
2010-11	29	73	-44	-12	-13	-13
2011-12	32	79	-47	-14	-8	-24
2012-13	46	85	-39	-12	-3	-14
2013-14	31	93	-62	-26	-10	-25
2014-15	40	100	-60	-29	-5	-21
2015-16	51	108	-57	-28	-8	-18
2016-17	58	118	-60	-28	-9	-21
2017-18	57	112	-55	-21	-21	-10

In addition, private schools located in the district have fairly substantial enrollments. Over the past ten years, these schools’ aggregate K-8 counts have been equal to approximately 14-17% of the public district’s enrollment for the same grades. The numeric count has been relatively consistent across this time.

TABLE 4-C
Enrollment in Private Schools
within Tomah Area School District

School Year	Total	K-8
2008-09	348	309
2009-10	339	306
2010-11	340	311
2011-12	338	292
2012-13	357	311
2013-14	360	315
2014-15	351	312
2015-16	348	305
2016-17	344	304
2017-18	307	270

Source: Tomah Area School District

Table 5 on the next page displays the numeric and percentage changes in specific grade enrollments and grade groupings since 2008/09 for two four-year periods. While the district experienced modest decreases in in-district students in the early part of the decade, moderate gains have been seen more recently except at the high school level.



TABLE 5
Student Enrollment Changes
Tomah Area School District--In-District Students

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	173	164	12						
K	26	15	19	13.3	7.7	9.4	1.5	1.9	2.4
1	23	26	-12	12.7	14.4	-5.6	1.4	3.6	-1.4
2	-34	-43	-12	-14.6	-18.5	-5.7	-1.6	-4.6	-1.4
3	-4	13	30	-1.8	5.9	16.0	-0.2	1.5	4.0
4	-19	-26	-8	-8.2	-11.2	-3.6	-0.9	-2.8	-0.9
5	24	4	17	12.5	2.1	8.5	1.4	0.5	2.1
6	18	21	46	8.3	9.7	24.3	0.9	2.4	6.1
7	-54	-20	-43	-21.8	-8.1	-18.1	-2.4	-2.0	-4.5
8	11	3	10	5.0	1.4	4.5	0.6	0.3	1.1
9	-9	-19	-7	-3.7	-7.9	-2.9	-0.4	-2.0	-0.7
10	-60	-44	-11	-22.1	-16.2	-5.0	-2.5	-4.1	-1.2
11	-7	-11	29	-2.6	-4.2	12.7	-0.3	-1.0	3.2
12	10	44	-11	4.3	19.1	-4.4	0.5	4.8	-1.1
TOTAL	98	127	59	3.3	4.3	2.0	0.4	1.1	0.5
K-12	-75	-37	47	-2.5	-1.3	1.7	-0.3	-0.3	0.4
K-5	16	-11	34	1.3	-0.9	2.7	0.1	-0.2	0.7
6-8	-25	4	13	-3.6	0.6	2.0	-0.4	0.1	0.5
9-12	-66	-30	0	-6.5	-3.0	0.0	-0.7	-0.7	0.0

Figure 5-B shows in-district enrollment history broken down by grade groupings. 4K, elementary and middle school enrollments have remained in a fairly constant range; the high school has seen a decline in enrollment.

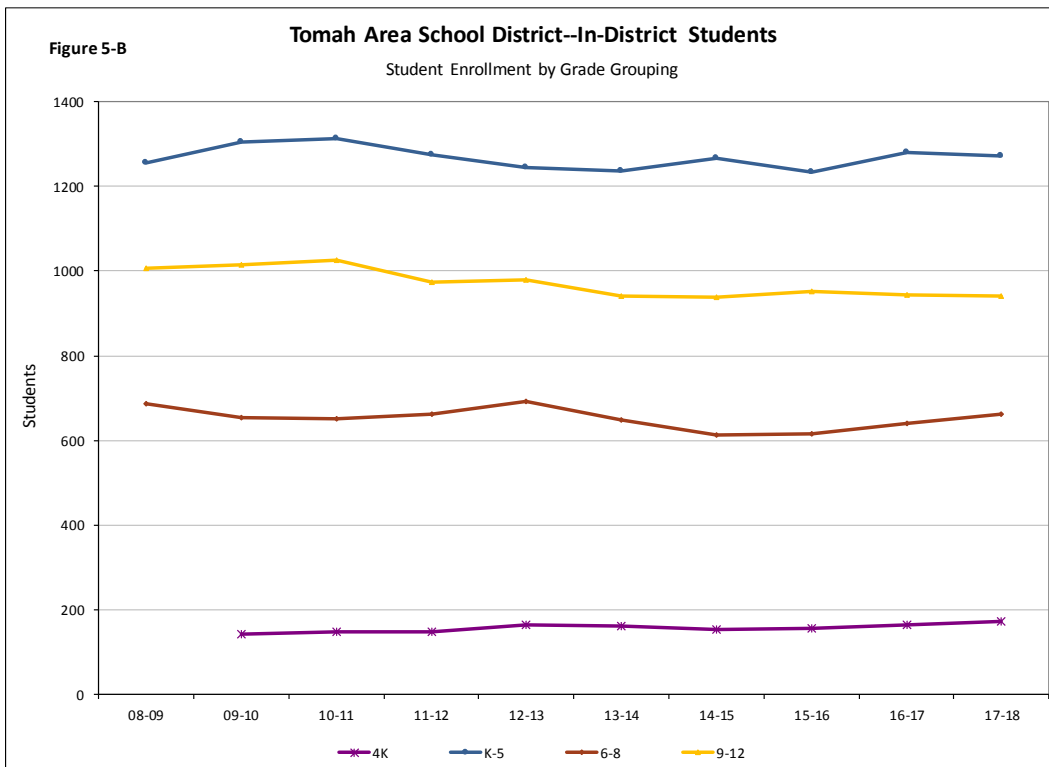
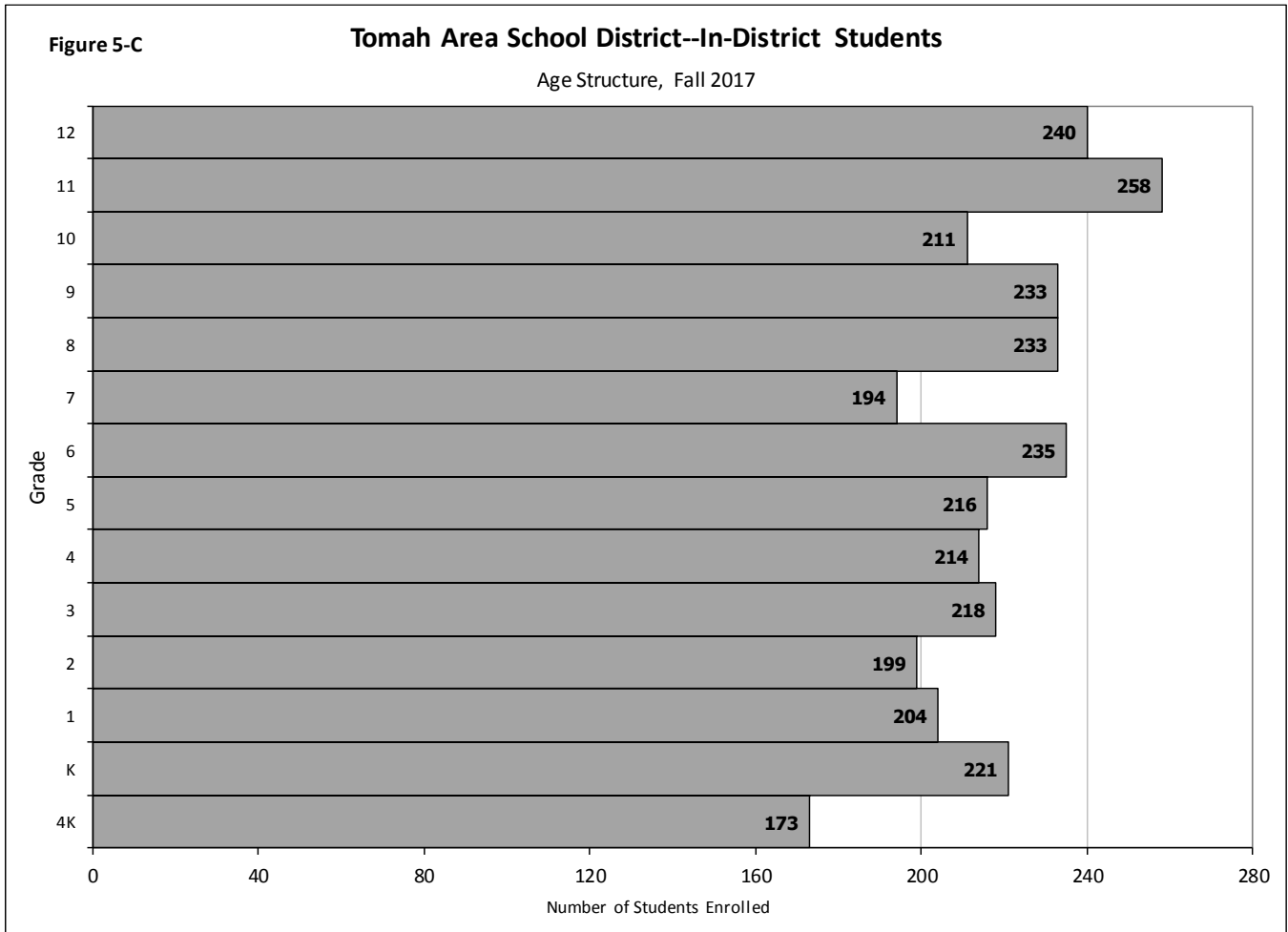


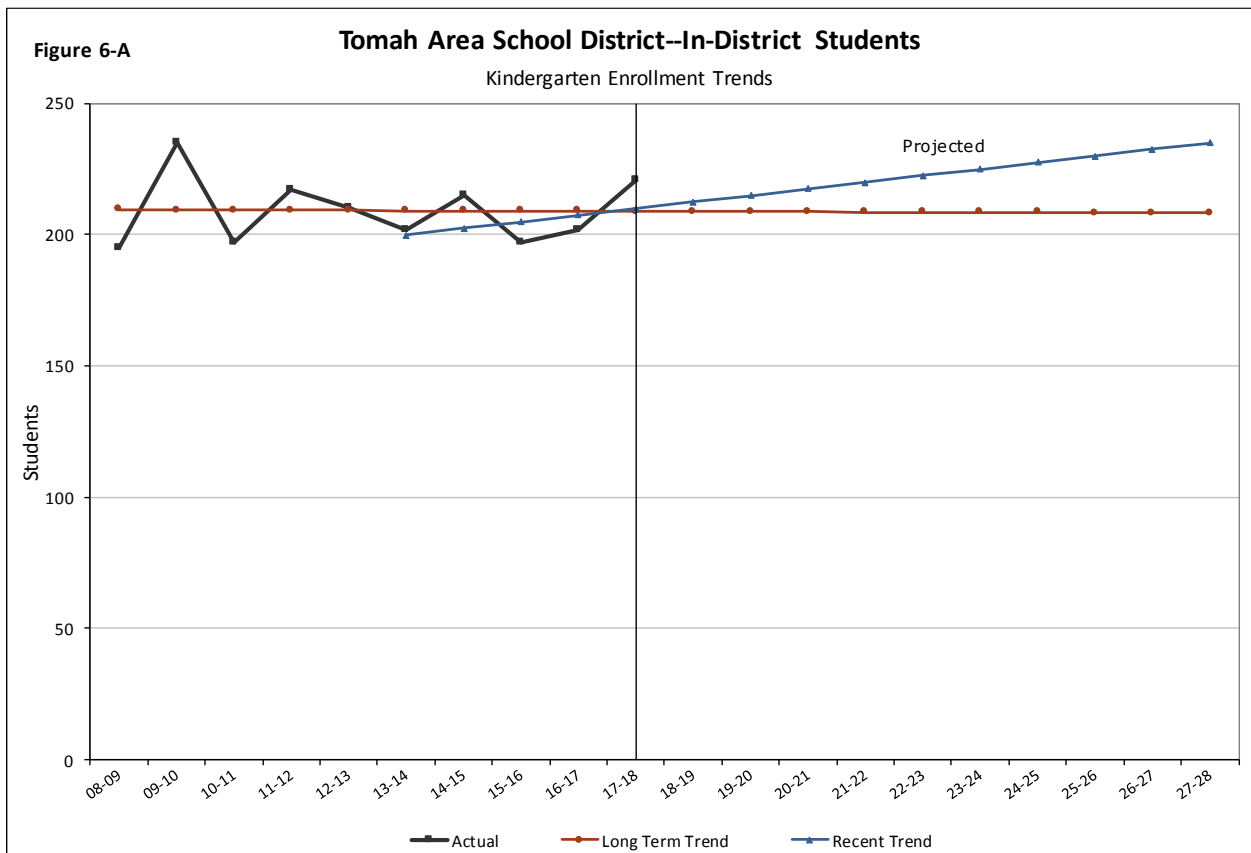
Figure 5-C shows the age structure in Fall 2017 of the in-district enrollment, with the number of 4-year-old kindergarteners at the bottom and the number of 12th graders at the top. The average class size for grades 9-12 currently is 236, with the 11th grade being largest and 10th being smallest. Grades 6-8 average 221, pulled down by the current 7th grade—which is the smallest cohort in the district—and K-5 are smaller still (average size of 212) but, as noted earlier, the relatively large private school presence in the district affects these averages. The district gains many of these private students at the high school level.



Kindergarten Enrollment Trends

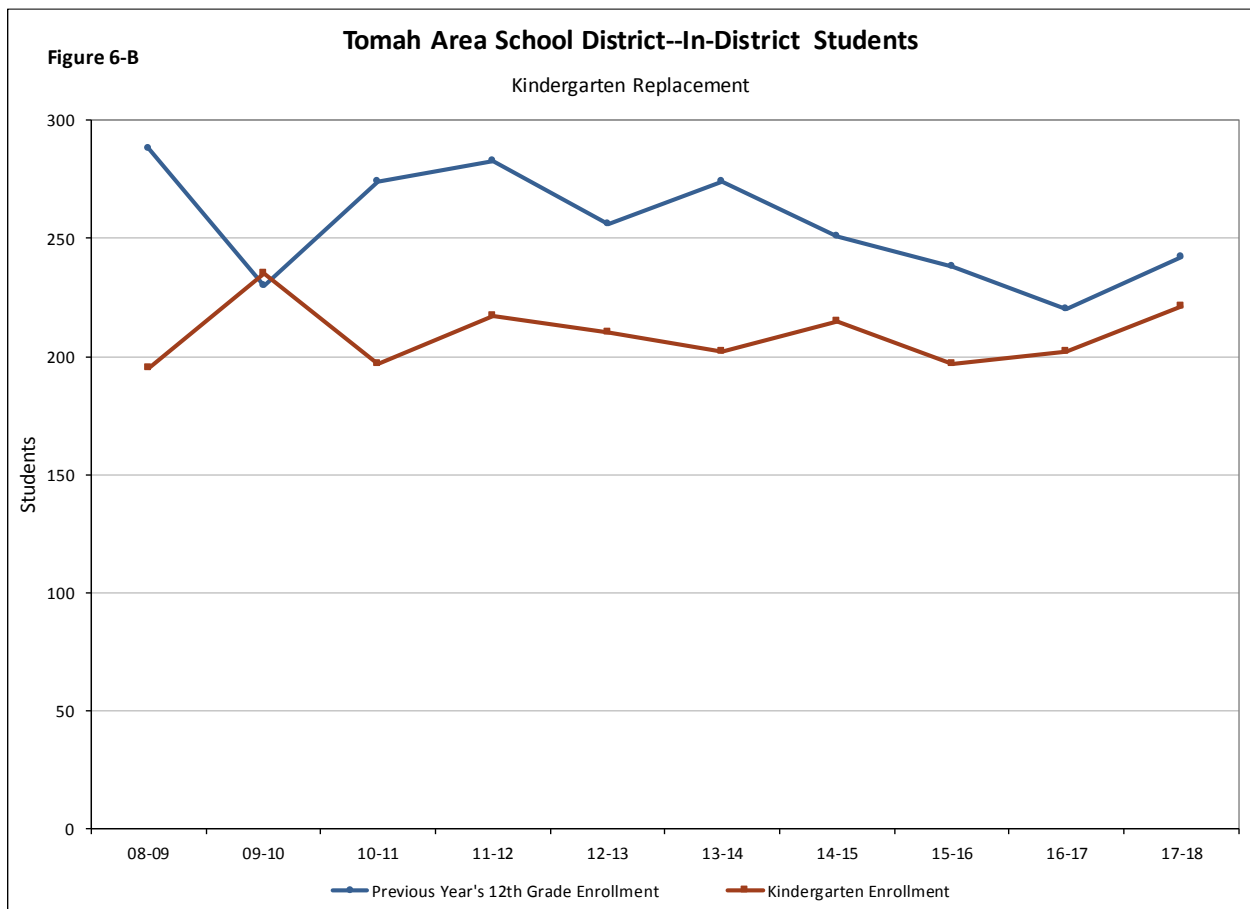
Examining trends in kindergarten enrollment is particularly informative for gaining perspective on future district enrollment, as today’s kindergarteners will gradually make up tomorrow’s students at the higher grade levels as they age and move through the school system. When kindergarten enrollment 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 6-A shows in-district 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 Tomah Area School District, the long-term trend predicts constant future enrollment while the recent trend points to increasing enrollment (averaging 2.5 more students annually). Because the number of births in the district area are projected to increase for the next few years (see the following section), the 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” 12th 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 6-B below, the incoming kindergarten class has exceeded the prior year’s 12th graders for only one of the past 10 years. However, the private schools are “drawing off” kindergarteners who might be enrolled in public school; for example, in 2017/18 there are 32 5K students in the four private schools. Thus, the relationship between kindergarteners and 12th graders displayed in this graph are not as significant in Tomah’s case as it might be in other districts in the state.



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 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 the 4K program 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 7 shows the grade progression ratios for the Tomah Area School District.

TABLE 7
Grade Progression Ratios
Tomah Area School District--In-District Students

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	0.895	1.036	1.044	0.979	1.018	0.970	0.995	0.995	0.996	1.108	0.983	0.952	1.034
09-10/10-11	0.793	1.034	1.020	1.048	1.039	1.022	1.009	1.058	1.019	1.065	1.000	0.979	1.097
10-11/11-12	0.885	0.964	0.992	0.966	1.005	0.966	1.009	1.018	0.980	1.018	0.943	1.000	1.099
11-12/12-13	0.840	0.954	1.000	0.975	1.040	0.985	1.039	0.979	0.970	1.126	1.013	1.024	1.114
12-13/13-14	0.759	1.029	1.019	0.989	0.945	0.961	0.964	0.996	0.978	1.067	0.996	1.009	0.988
13-14/14-15	0.810	1.010	1.042	1.009	1.011	0.995	0.995	0.968	0.979	1.103	0.979	0.986	1.039
14-15/15-16	0.738	1.014	1.020	0.933	0.995	0.989	1.032	0.990	1.044	1.103	1.004	0.970	1.005
15-16/16-17	0.759	1.005	0.995	1.038	1.038	1.080	1.043	1.013	1.092	1.120	0.992	0.943	1.061
16-17/17-18	0.850	1.010	1.005	1.005	0.991	0.991	1.026	0.990	1.009	1.089	0.986	1.016	1.030
Baseline	0.802	1.017	1.013	0.987	1.014	0.985	1.011	0.997	0.997	1.094	0.991	0.989	1.060
5 Year Trend	0.783	1.013	1.016	0.995	0.996	1.003	1.012	0.991	1.020	1.096	0.991	0.985	1.025
2 Year "Trend"	0.805	1.007	1.000	1.022	1.014	1.036	1.034	1.001	1.050	1.105	0.989	0.980	1.046

*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 1.013. This means that, in the Tomah Area School District, the second grade is on average 1.3% larger (1.3 students per 100) than the first grade class of

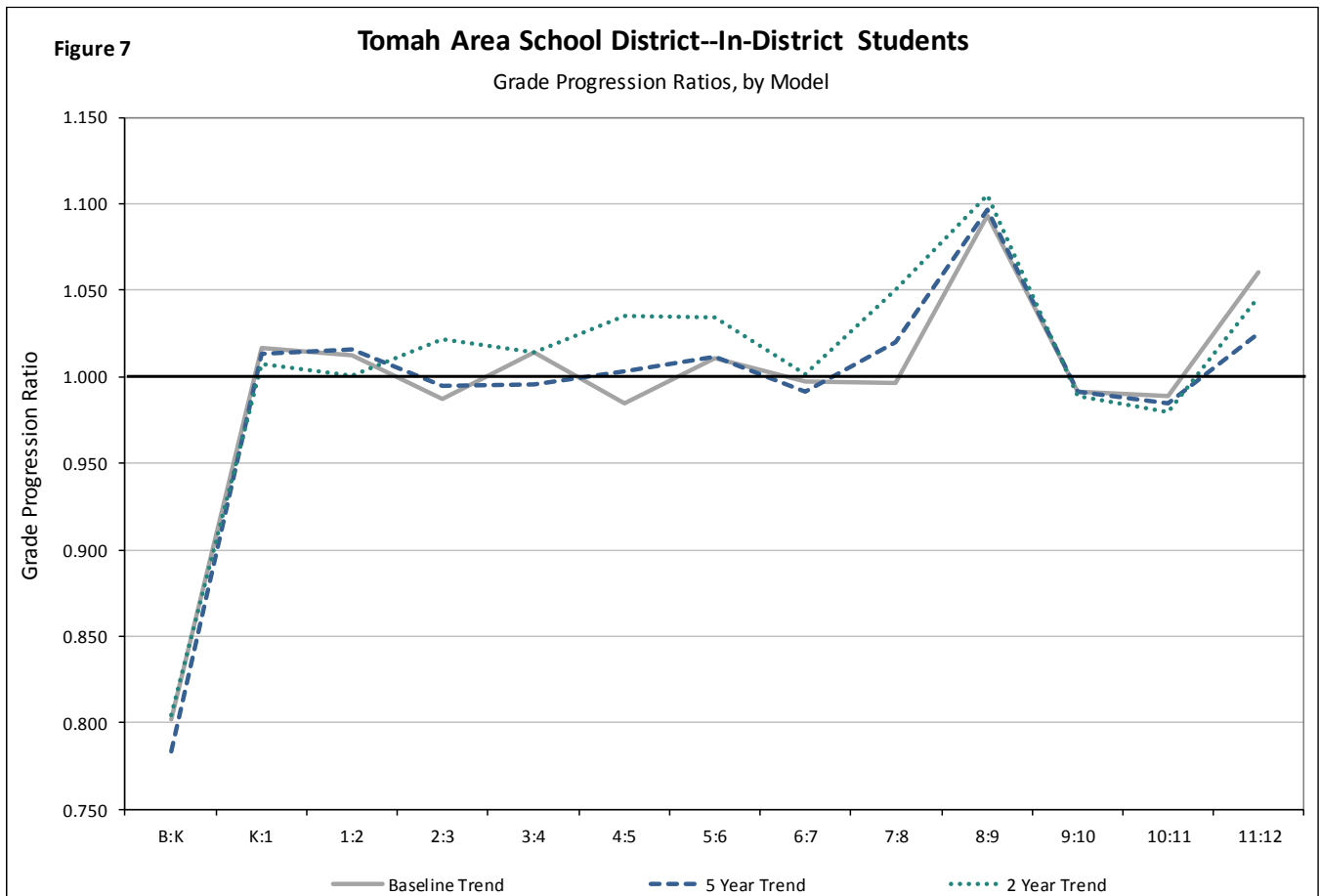


the previous year, the result of transfers from other schools and net in-migration into the district.

- The Two Year Trend ratio for 7:8 of 1.050 indicates that, averaging the past two years, the district's eighth grade enrollment is roughly 5% greater than the seventh grade in the previous year.

Figure 7 illustrates the patterns among these three grade progression ratios:

- The trend lines for the Baseline and Five Year Trend models hover around 1.0 in the elementary and middle school grades, indicating that enrollment, on average, has tended to be fairly constant as each cohort of students age through their early schooling.
- The most recent trend, the Two Year model, has the highest GPRs in grades 2:3 through 8:9 transitions.
- The apparently low B:K ratio is related to the births being for the full extent of all municipalities, rather than specific to the school district area itself.
- The nearly identical increases in GPRs at the grade 8:9 transition are influenced by gains of students from private schools in the area that operate only through 8th grade.



B:4K and 4K:K Progression Ratios

Given that the Tomah Area School District has had a 4K program for nine 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 8 shows the observed progression ratios between births and 4K and between 4K and kindergarten for the years in which the Tomah Area School District has operated its program. Across the three models, the birth-to-4K ratios range from .60 to .63, indicating that the 4K program is “capturing” 60% to 63% of the births that occurred about four years beforehand. The 4K:K ratios are not used in the projections calculations, but provide an indication that kindergarten classes are roughly 30% to 35% larger than the prior year’s 4K.

TABLE 8
4K Grade Progression Ratios
Tomah Area School District--In-District Students

	B:4K	4K:K
08-09/09-10	0.568	
09-10/10-11	0.599	1.397
10-11/11-12	0.592	1.476
11-12/12-13	0.617	1.419
12-13/13-14	0.607	1.232
13-14/14-15	0.573	1.335
14-15/15-16	0.586	1.288
15-16/16-17	0.631	1.295
16-17/17-18	0.631	1.348
Baseline	0.600	1.347
5 Year Trend	0.606	1.299
2 Year "Trend"	0.631	1.321



School Enrollment Projections—In-District Students

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 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 9) 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 in-district enrollment in the Tomah Area School District will remain constant over the next five years, from 3,049 students in 2017/18 to 3,050 in 2022/23. The model then predicts only moderate change through 2027/28.

TABLE 9
Baseline Projection Model
Tomah Area School District--In-District Students

	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	162	155	164	166	164	165	166	166	167	168
K	219	216	207	219	221	218	219	220	221	222
1	225	222	220	210	222	225	222	223	224	225
2	207	228	225	222	213	225	228	225	226	227
3	196	204	225	222	220	210	222	225	222	223
4	221	199	207	228	225	223	213	225	228	225
5	211	218	196	204	224	222	219	210	222	224
6	218	213	220	198	206	227	224	222	212	224
7	234	218	212	219	198	205	226	224	221	212
8	193	234	217	212	219	197	205	225	223	220
9	255	211	255	237	232	239	216	224	247	244
10	231	253	210	253	235	230	237	214	222	244
11	209	228	250	207	250	233	227	235	211	219
12	273	221	242	265	220	265	247	241	249	224
TOTAL	3,054	3,020	3,050	3,064	3,050	3,085	3,072	3,079	3,095	3,103
K-12	2,892	2,865	2,886	2,898	2,885	2,920	2,906	2,912	2,928	2,935
K-5	1,278	1,287	1,280	1,305	1,326	1,323	1,324	1,329	1,343	1,347
6-8	646	664	650	630	622	629	655	671	657	657
9-12	968	914	957	963	937	967	927	913	929	932



5 Year Trend Projection

The Five Year Trend model (Table 10) 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 in-district enrollment in the Tomah Area School District is projected to remain constant over the next five years. The model then predicts a small increase through 2027/28.

TABLE 10
5 Year Trend Projection Model
Tomah Area School District--In-District Students

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	163	156	165	167	165	166	166	167	168	169
K	214	211	202	214	216	213	214	215	216	217
1	224	217	214	205	216	219	216	217	218	219
2	207	228	220	217	208	220	222	220	221	222
3	198	206	226	219	216	207	219	221	219	220
4	217	197	205	226	218	215	206	218	220	218
5	215	218	198	206	226	219	216	207	219	221
6	219	217	220	200	209	229	221	219	209	221
7	233	217	215	219	199	207	227	219	217	208
8	198	238	221	220	223	203	211	232	224	221
9	255	217	261	242	241	244	222	231	254	246
10	231	253	215	258	240	239	242	220	229	252
11	208	228	249	212	254	237	235	239	217	226
12	264	213	233	256	217	261	243	241	245	222
TOTAL	3,046	3,015	3,046	3,060	3,049	3,078	3,062	3,067	3,076	3,081
K-12	2,883	2,859	2,881	2,893	2,884	2,913	2,896	2,900	2,908	2,912
K-5	1,275	1,276	1,266	1,286	1,301	1,293	1,294	1,299	1,313	1,317
6-8	649	672	657	639	630	638	659	670	650	650
9-12	959	911	958	968	953	981	942	931	945	945



2 Year "Trend" Projection

The Two Year "Trend" model (Table 11) 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. As noted in the previous section on Grade Progression Ratios, the Two Year Trend model has some of the highest ratios among the four projection models. Consequently, 4K-12 in-district enrollment in the Tomah Area School District is projected to increase robustly over the next five years, from 3,049 students in 2017/18 to 3,227 in 2022/23, an increase of 178 or 5.9%. Enrollment is then predicted to continue growing through 2027/28.

TABLE 11
2 Year "Trend" Projection Model
Tomah Area School District--In-District Students

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	170	163	172	174	172	173	173	174	175	176
K	219	217	208	219	222	219	220	221	222	223
1	223	221	218	209	221	223	221	222	223	224
2	204	223	221	218	209	221	223	221	222	223
3	203	208	228	226	223	214	226	228	226	227
4	221	206	211	231	229	226	217	229	231	229
5	222	229	214	219	239	237	234	225	237	240
6	223	229	237	221	226	247	245	242	232	245
7	235	224	230	237	221	227	248	246	243	233
8	204	247	235	241	249	232	238	260	258	255
9	257	225	273	260	266	275	257	263	287	285
10	230	255	223	270	257	263	272	254	260	284
11	207	226	249	218	265	251	258	267	249	255
12	270	216	236	261	228	277	263	270	279	260
TOTAL	3,089	3,089	3,154	3,204	3,227	3,287	3,296	3,321	3,344	3,358
K-12	2,919	2,926	2,982	3,030	3,056	3,114	3,122	3,147	3,169	3,182
K-5	1,292	1,304	1,300	1,323	1,343	1,341	1,341	1,346	1,361	1,365
6-8	663	700	701	699	697	706	731	748	733	733
9-12	964	921	981	1,008	1,016	1,067	1,050	1,053	1,075	1,084



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 Five 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 12), 4K-12 in-district enrollment in the Tomah Area School District is projected to increase modestly over the next five years, from 3,049 students in 2017/18 to 3,081 in 2022/23, a gain of 32 or 1.0%. Enrollment is then predicted to grow moderately through 2027/28.

TABLE 12
Kindergarten Trend Projection Model
Tomah Area School District--In-District Students

GRADE	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	163	156	165	167	165	166	166	167	168	169
K	212	215	217	220	222	225	227	230	232	235
1	224	215	218	220	223	225	228	230	233	236
2	207	228	219	221	224	226	229	232	234	237
3	198	206	226	218	220	223	225	228	230	233
4	217	197	205	226	217	219	222	224	227	230
5	215	218	198	206	226	218	220	223	225	228
6	219	217	220	200	209	229	220	223	225	228
7	233	217	215	219	199	207	227	218	221	223
8	198	238	221	220	223	203	211	232	223	225
9	255	217	261	242	241	244	222	231	254	244
10	231	253	215	258	240	239	242	220	229	252
11	208	228	249	212	254	237	235	239	217	226
12	264	213	233	256	217	261	243	241	245	222
TOTAL	3,045	3,018	3,064	3,085	3,081	3,121	3,119	3,138	3,164	3,187
K-12	2,882	2,862	2,899	2,918	2,916	2,956	2,952	2,971	2,996	3,018
K-5	1,274	1,279	1,284	1,311	1,333	1,336	1,352	1,367	1,382	1,398
6-8	649	672	657	639	630	638	658	673	669	677
9-12	959	911	958	968	953	981	942	931	945	944



Comparison of Projection Models—In-District Students

Figures 7-11 and Tables 13-17 compare the four enrollment projection models broken down by total 4K-12, K-12, and elementary, middle and secondary grade groupings.

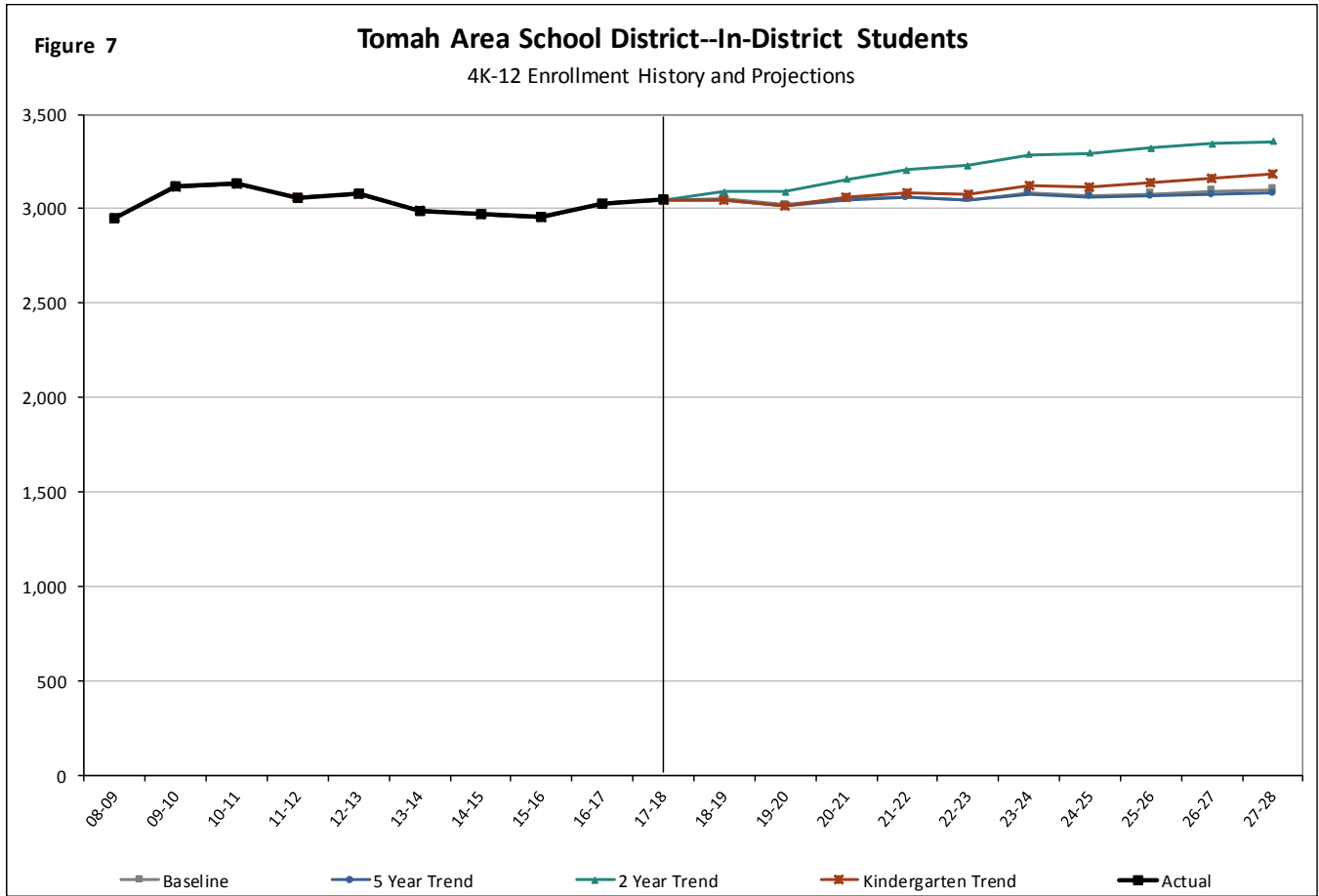


TABLE 13
Summary of 4K-12 Enrollment Projections
Tomah Area School District--In-District Students

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	3,054	3,020	3,050	3,064	3,050	3,085	3,072	3,079	3,095	3,103
5 Year Trend	3,046	3,015	3,046	3,060	3,049	3,078	3,062	3,067	3,076	3,081
2 Year "Trend"	3,089	3,089	3,154	3,204	3,227	3,287	3,296	3,321	3,344	3,358
Kindergarten Trend	3,045	3,018	3,064	3,085	3,081	3,121	3,119	3,138	3,164	3,187

From the 2017/18 in-district enrollment of 3,049, three of four models project relatively constant 4K-12 enrollment over the next five years, but the Two Year Trend points to an increase. The projections five years from now (2022/23) range from 3,049 to 3,227 students, with the percentage increases spanning 0 to 6 percent. The models then project slight to moderate growth.



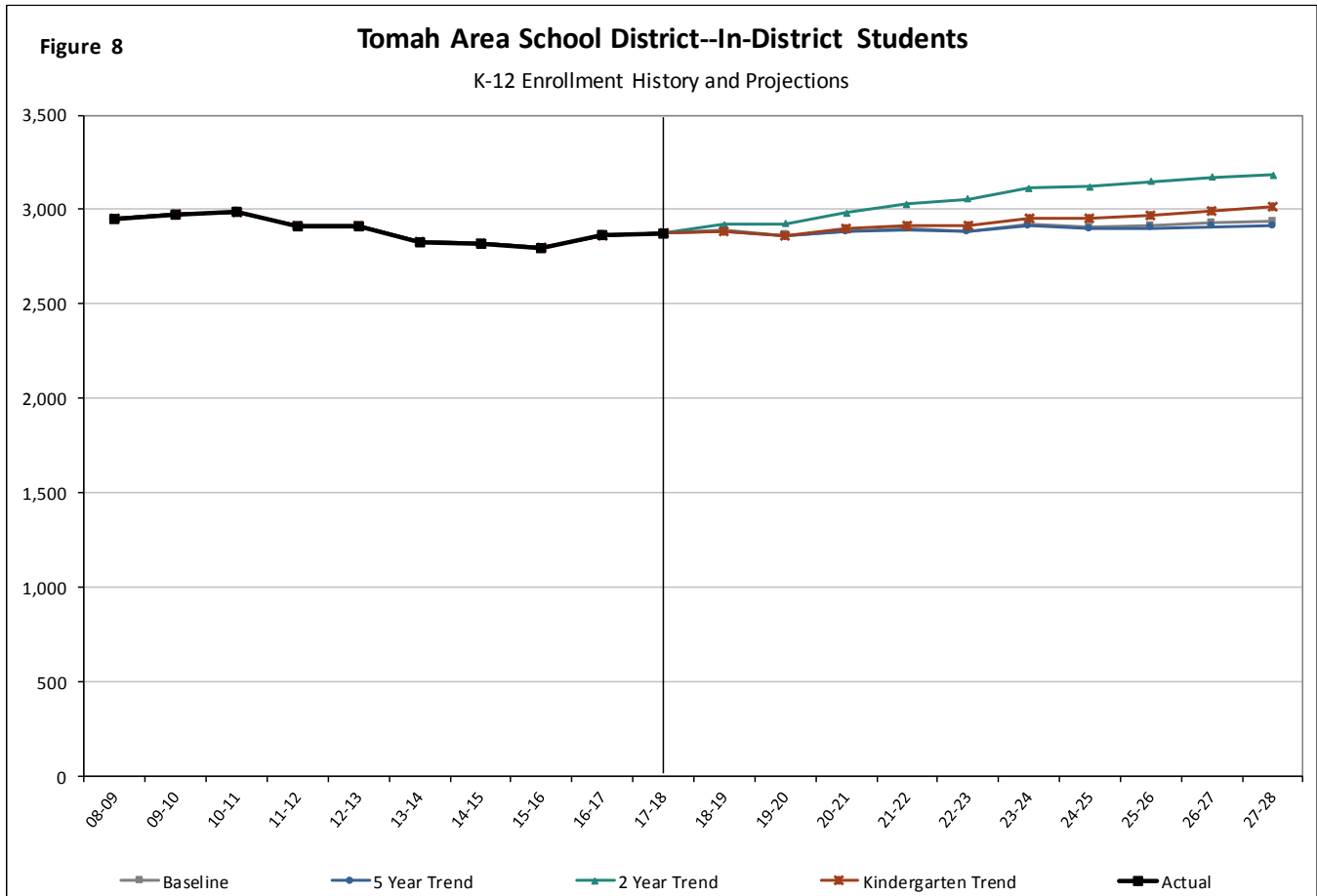


TABLE 14
Summary of K-12 Enrollment Projections
Tomah Area School District--In-District Students

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	2,892	2,865	2,886	2,898	2,885	2,920	2,906	2,912	2,928	2,935
5 Year Trend	2,883	2,859	2,881	2,893	2,884	2,913	2,896	2,900	2,908	2,912
2 Year "Trend"	2,919	2,926	2,982	3,030	3,056	3,114	3,122	3,147	3,169	3,182
Kindergarten Trend	2,882	2,862	2,899	2,918	2,916	2,956	2,952	2,971	2,996	3,018

From the K-12 2017/18 in-district enrollment of 2,876, three of four models project relatively constant 4K-12 enrollment over the next five years, but the Two Year Trend points to an increase. The projections five years from now (2022/23) range from 2,884 to 3,056 students, with the percentage increases spanning 0 to 6 percent. The models then project slight to moderate growth.



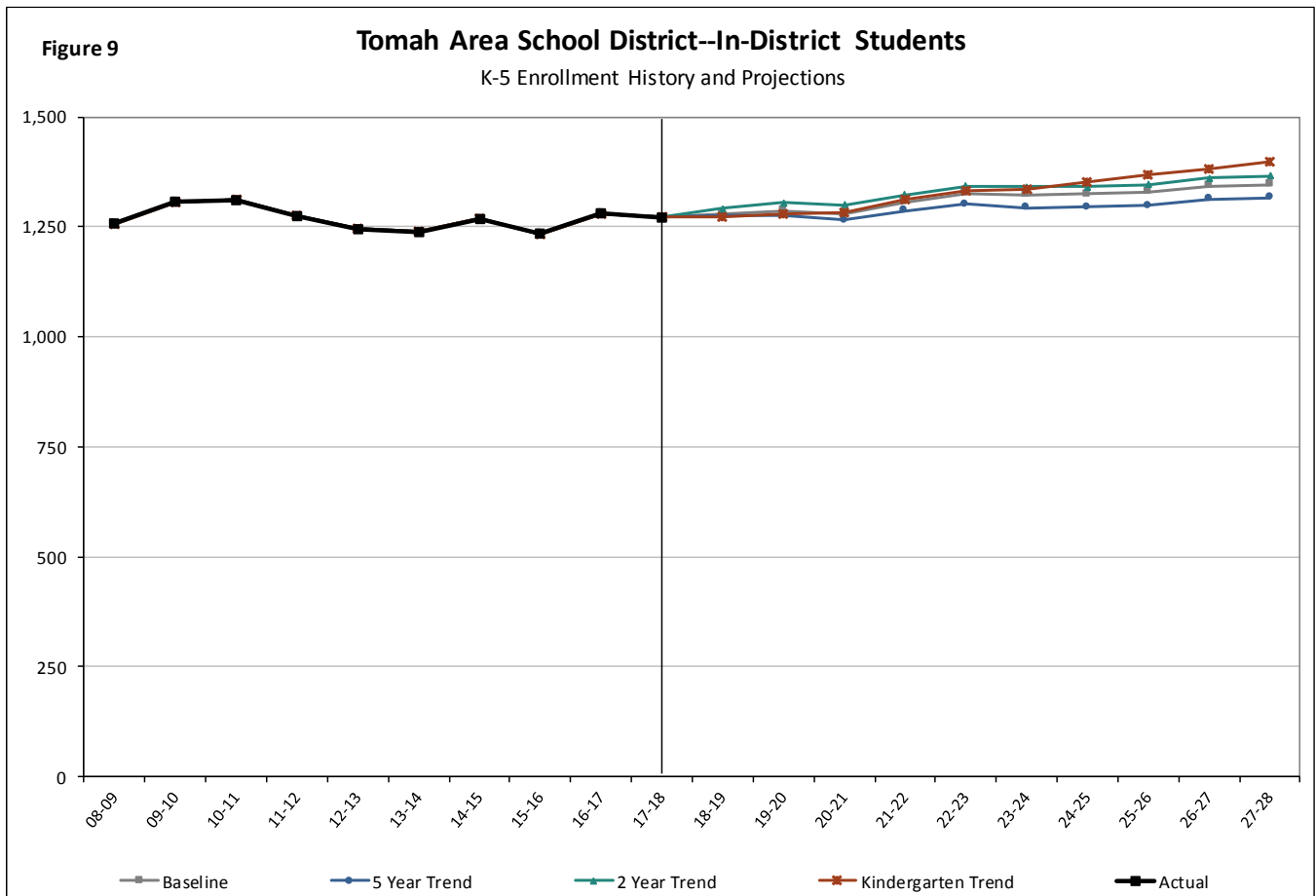


TABLE 15
Summary of K-5 Enrollment Projections
Tomah Area School District--In-District Students

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	1,278	1,287	1,280	1,305	1,326	1,323	1,324	1,329	1,343	1,347
5 Year Trend	1,275	1,276	1,266	1,286	1,301	1,293	1,294	1,299	1,313	1,317
2 Year "Trend"	1,292	1,304	1,300	1,323	1,343	1,341	1,341	1,346	1,361	1,365
Kindergarten Trend	1,274	1,279	1,284	1,311	1,333	1,336	1,352	1,367	1,382	1,398

From the K-5th grades' 2017/18 in-district enrollment of 1,272, all four models project modest increases through 2022/23. The projections five years from now range from 1,301 to 1,343 students, with the percentage change spanning 2 to 6 percent. Beyond that point, all four models predict continuing gains, with the 2 Year and Kindergarten Trends increasing the most.



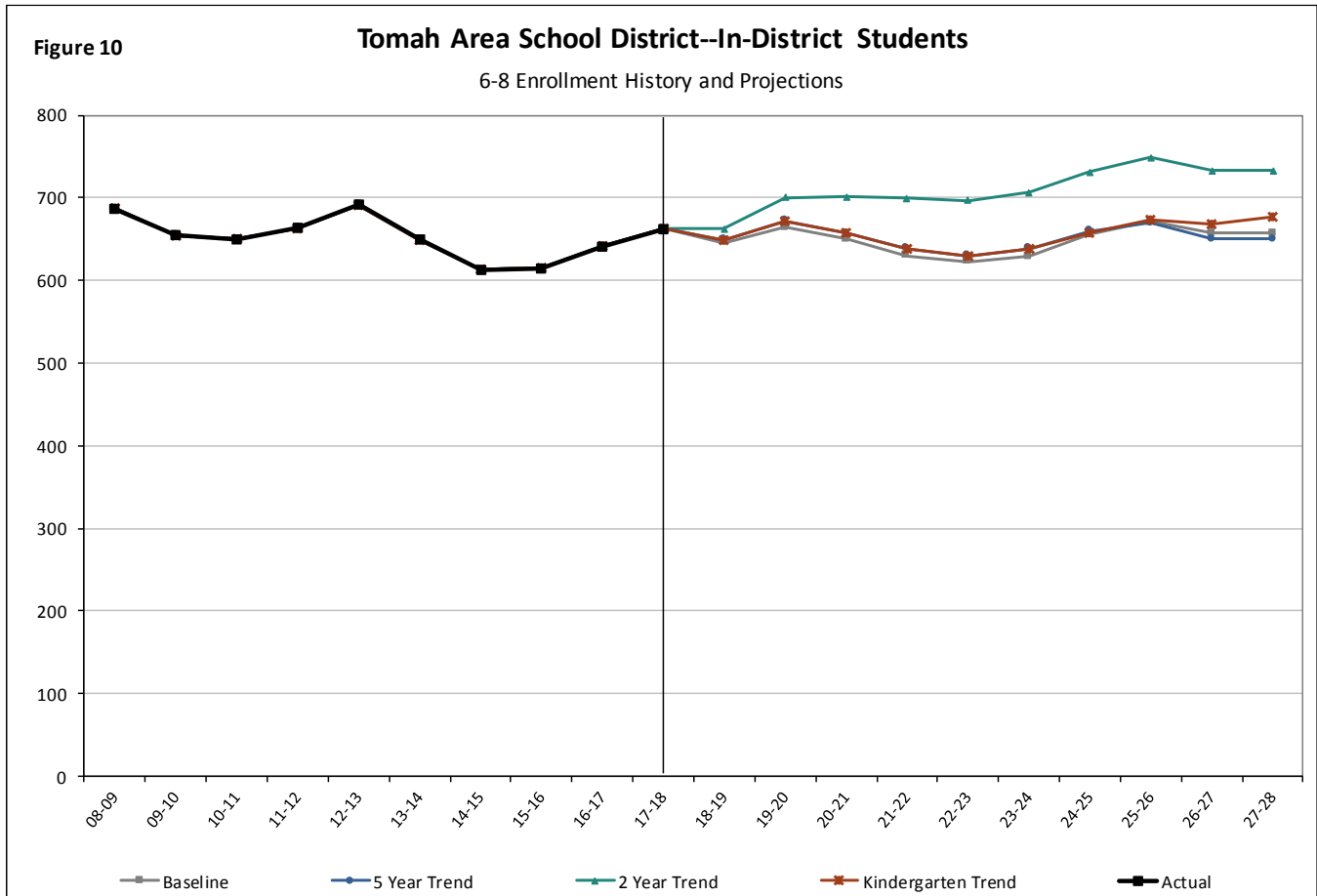


TABLE 16
Summary of 6-8 Enrollment Projections
Tomah Area School District--In-District Students

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	646	664	650	630	622	629	655	671	657	657
5 Year Trend	649	672	657	639	630	638	659	670	650	650
2 Year "Trend"	663	700	701	699	697	706	731	748	733	733
Kindergarten Trend	649	672	657	639	630	638	658	673	669	677

From the 6th-8th grades' 2017/18 in-district enrollment of 662 students, three models project moderate losses as slightly smaller elementary cohorts age into the middle school, but the 2-Year Trend predicts a gain, for the next five years. The projected in-district students for 2022/23 range from 622 to 697 students, with the percentage changes spanning -6 to 5 percent. All four models then predict increasing enrollment.



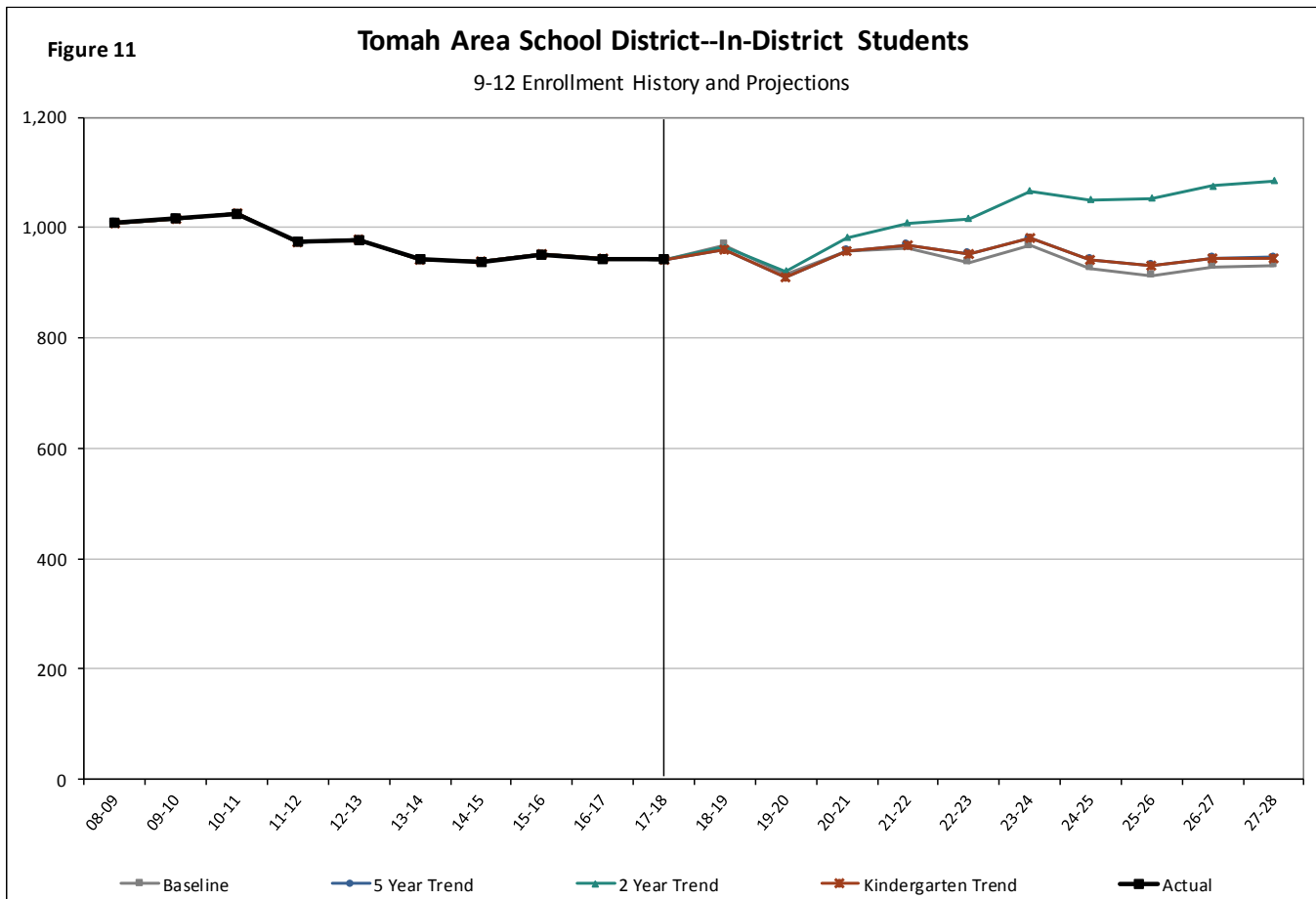


TABLE 17
Summary of 9-12 Enrollment Projections
Tomah Area School District--In-District Students

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	968	914	957	963	937	967	927	913	929	932
5 Year Trend	959	911	958	968	953	981	942	931	945	945
2 Year "Trend"	964	921	981	1,008	1,016	1,067	1,050	1,053	1,075	1,084
Kindergarten Trend	959	911	958	968	953	981	942	931	945	944

From the 9th-12th grades' 2017/18 enrollment of 942 in-district students, the Baseline model projects constant enrollment, but the other three predict gains, in high school enrollment for the next five years. The projections five years from now (2022/23) range from 937 to 1,046 students, with the percentage increases spanning -1 to 8 percent. Beyond that point, Baseline, 5 year and Kindergarten Trend remain fairly constant, but the 2 Year model continue to rise strongly through 2027/28.



FTE Student Counts

As noted in the introduction, this section describes the count of students who reside in the district area, whether they attend the Tomah Area public schools or other public options. Selected historic and progression ratio graphs and tables are presented if they illustrate variation from the in-district enrollment data.

FTE Count History

Figure 12 and Table 18 compare the in-district enrollment and FTE count for the past ten years. The differential between the two values varied from 35 (2008/09 school year) to 81 (2016/17), with an average difference of 58.

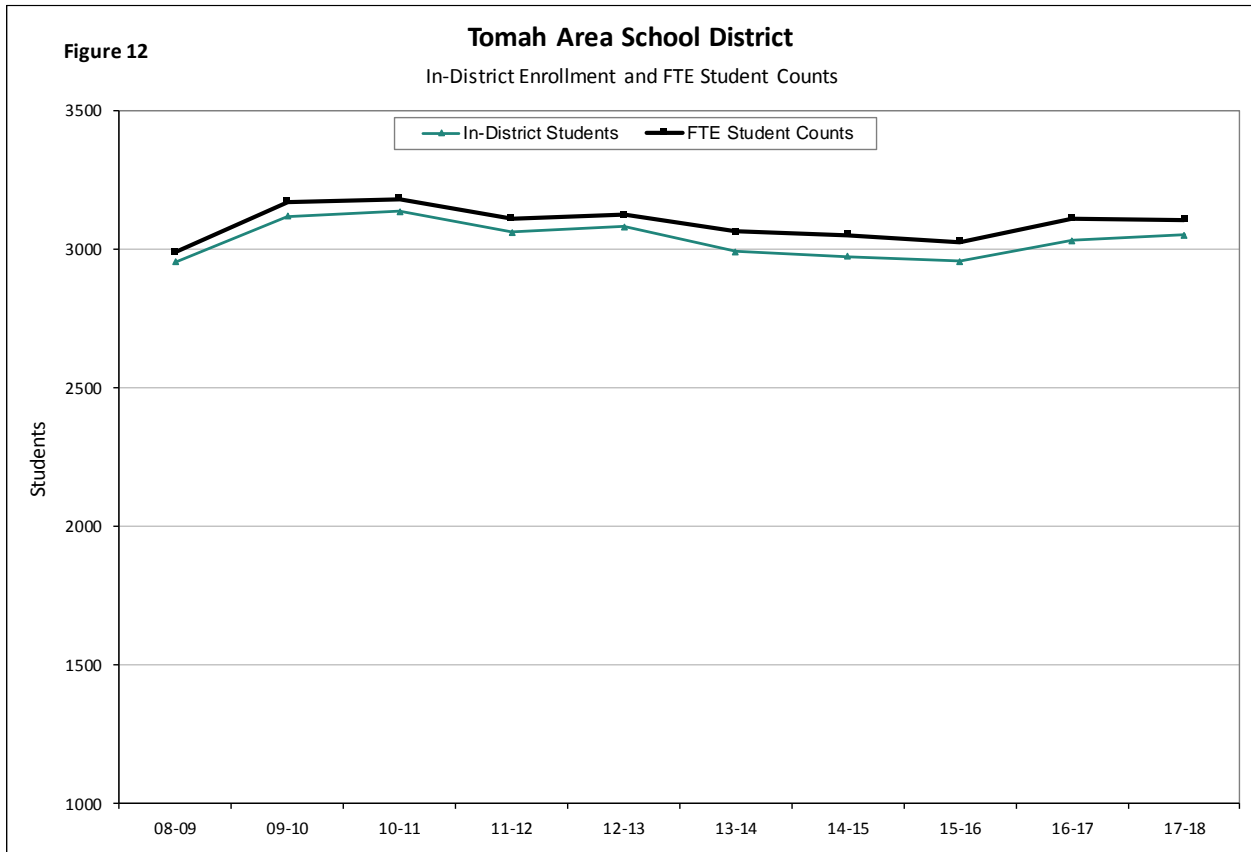


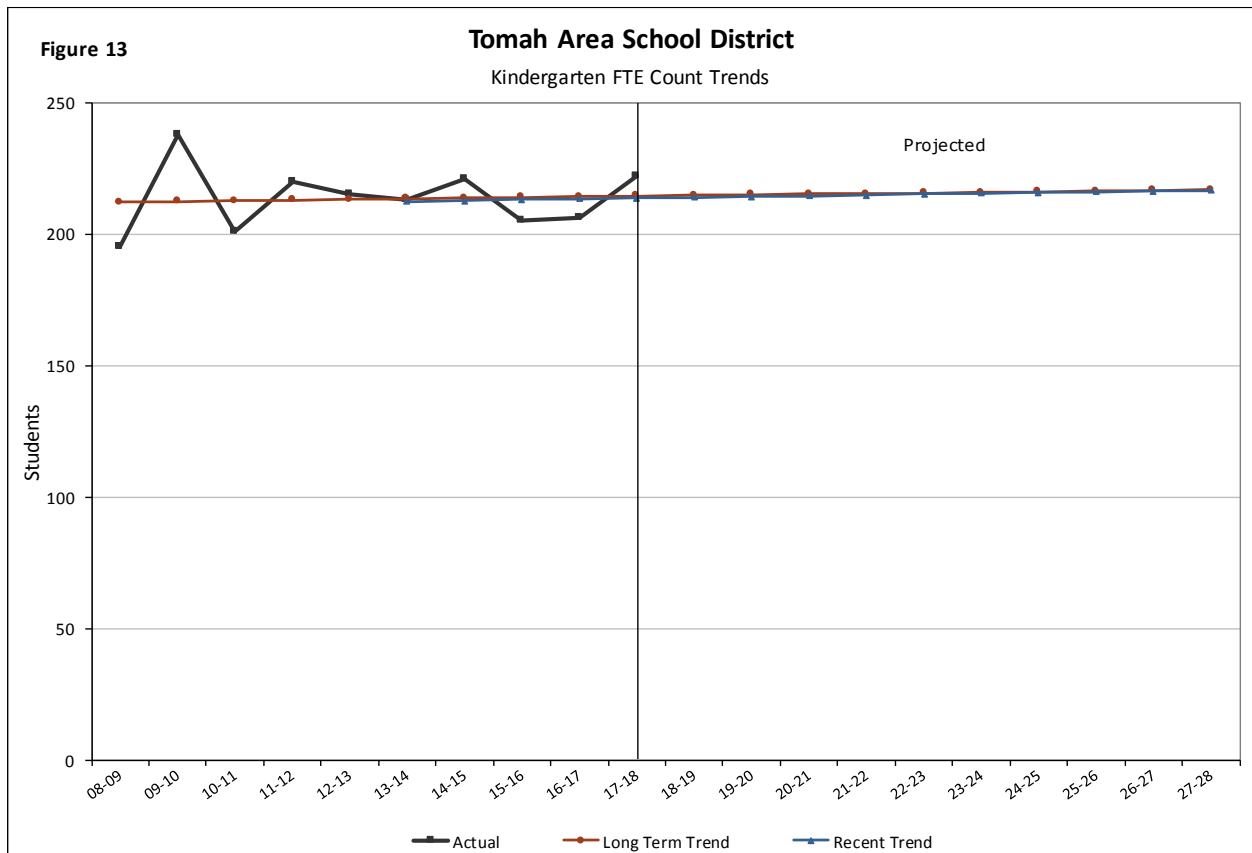
TABLE 18
Comparison of Enrollment and FTE Student Counts
Tomah Area School District

	SCHOOL YEAR									
	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
In-District	2,951	3,117	3,134	3,060	3,078	2,990	2,972	2,955	3,028	3,049
FTE Count	2,986	3,168	3,179	3,110	3,122	3,062	3,048	3,025	3,109	3,104
Difference	-35	-51	-45	-50	-44	-72	-76	-70	-81	-55



Kindergarten FTE Count Trends

In the in-district calculations, the long- and short-term trends for Kindergarten students diverged (the long, 10-year pattern indicated steady enrollment; the short, 5-year pattern indicated increases). Under the FTE count scenario, both trends nearly match each other, predicting constant counts of Kindergarteners in the district area. This difference primarily affects the Kindergarten Trend projections presented later.



School Enrollment Projections—FTE Student Counts

Baseline Projection

The Baseline model (Table 19) projects student counts 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 FTE student counts in the Tomah district area will rise modestly over the next five years, from 3,104 in 2017/18 to 3,145 in 2022/23. The model then predicts continued moderate change through 2027/28.

TABLE 19
Baseline Projection Model--FTE Student Counts
Tomah Area 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	165	158	167	169	167	168	169	169	170	171
K	227	224	215	227	229	226	227	228	229	230
1	222	227	224	215	227	229	227	228	229	230
2	209	225	230	227	217	229	232	229	230	231
3	202	207	222	227	224	215	227	229	227	228
4	227	205	210	226	230	228	218	230	233	230
5	209	224	202	208	223	228	225	215	228	230
6	229	211	227	205	211	226	231	228	218	231
7	243	231	213	228	206	212	227	232	229	220
8	205	244	231	213	229	207	212	228	233	230
9	261	227	269	255	235	252	228	234	251	257
10	229	259	225	267	253	233	251	227	232	250
11	212	226	255	221	263	249	230	247	223	229
12	271	221	235	265	231	274	260	240	257	232
TOTAL	3,110	3,086	3,124	3,152	3,145	3,177	3,163	3,164	3,190	3,197
K-12	2,945	2,928	2,957	2,984	2,978	3,009	2,994	2,995	3,020	3,027
K-5	1,295	1,311	1,303	1,328	1,350	1,355	1,356	1,360	1,375	1,379
6-8	678	686	671	647	646	645	670	688	680	680
9-12	972	932	984	1,009	982	1,009	968	947	964	968



5 Year Trend Projection

The Five Year Trend model (Table 20) 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 student counts would look like if more recent patterns were representative of future trends. This model projects that 4K-12 FTE student counts in the Tomah district area will rise modestly over the next five years, from 3,104 in 2017/18 to 3,135 in 2022/23. The model then predicts continued moderate change through 2027/28.

TABLE 20
5 Year Trend Projection Model--FTE Student Counts
Tomah Area 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	166	159	168	170	168	169	170	170	171	172
K	220	217	208	220	222	220	221	221	222	223
1	223	220	218	209	220	223	220	221	222	223
2	211	227	225	222	213	225	227	225	226	227
3	203	210	226	224	221	212	224	226	223	224
4	223	203	210	226	224	221	212	224	226	223
5	211	223	203	210	226	224	221	212	224	226
6	230	215	227	206	214	230	227	225	215	227
7	242	230	214	227	206	213	230	227	224	215
8	208	246	233	218	230	210	217	233	231	228
9	259	229	270	256	239	253	230	238	256	254
10	230	258	228	269	255	238	252	229	237	255
11	212	227	255	225	266	252	235	249	226	234
12	267	218	233	261	231	272	259	241	255	232
TOTAL	3,105	3,082	3,118	3,143	3,135	3,161	3,144	3,142	3,160	3,165
K-12	2,939	2,923	2,950	2,973	2,967	2,992	2,974	2,972	2,989	2,993
K-5	1,291	1,301	1,289	1,310	1,326	1,323	1,324	1,329	1,343	1,347
6-8	680	690	675	651	650	653	674	685	671	671
9-12	968	932	986	1,012	991	1,016	976	958	975	976



2 Year "Trend" Projection

The Two Year "Trend" model (Table 21) averages the grade progression ratios from the last two years to project what future student counts would look like if even more recent patterns were representative of future trends. As noted in the in-district projections, the Two Year Trend model has some of the highest grade progression ratios among the four projection models. Consequently, this model projects that 4K-12 FTE student counts in the Tomah district area will rise strongly over the next five years, from 3,104 in 2017/18 to 3,268 in 2022/23. The model then predicts continued strong gains through 2027/28.

TABLE 21
2 Year "Trend" Projection Model--FTE Student Counts
Tomah Area 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	172	165	175	176	174	175	176	177	178	178
K	222	219	210	222	224	222	223	224	225	226
1	222	222	219	210	222	224	222	223	224	225
2	207	223	223	220	211	222	225	222	223	224
3	208	212	227	227	224	215	227	230	227	228
4	224	210	213	229	229	226	216	229	231	229
5	218	232	216	220	236	236	233	223	236	239
6	235	227	241	225	229	246	246	243	233	246
7	244	237	228	243	227	231	248	248	244	234
8	213	253	246	237	252	236	240	257	257	254
9	259	234	278	270	261	277	259	263	283	283
10	230	258	233	277	270	260	276	258	263	282
11	210	225	253	228	271	264	254	270	253	257
12	271	219	235	263	238	282	275	265	282	263
TOTAL	3,137	3,136	3,198	3,249	3,268	3,316	3,320	3,332	3,357	3,366
K-12	2,965	2,971	3,023	3,073	3,094	3,141	3,144	3,155	3,180	3,188
K-5	1,302	1,317	1,309	1,328	1,346	1,346	1,346	1,350	1,366	1,370
6-8	692	717	716	706	709	713	733	748	734	734
9-12	971	937	999	1,039	1,039	1,083	1,064	1,057	1,079	1,084



Kindergarten Trend Projection

For this method, we perform a trend analysis to project the FTE counts of future kindergarten students. Rather than relying upon the birth-to-K progression ratios used in the previous three models, the kindergarten student counts of past years is trended forward. Then, the Five Year Trend grade progression ratios are used for projecting the other grades (1-12) in the district.

According to this projection method (Table 22), 4K-12 FTE student counts in the Tomah district area will remain rise only slightly over the next five years, from 3,104 in 2017/18 to 3,122 in 2022/23. The model then predicts steady student counts through 2027/28.

TABLE 22
Kindergarten Trend Projection Model--FTE Student Counts
Tomah Area School District

GRADE	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	166	159	168	170	168	169	170	170	171	172
K	214	214	215	215	215	216	216	216	216	217
1	223	215	215	215	215	216	216	216	217	217
2	211	227	219	219	220	220	220	220	221	221
3	203	210	226	218	218	218	219	219	219	220
4	223	203	210	226	218	218	218	219	219	219
5	211	223	203	210	226	218	218	218	219	219
6	230	215	227	206	214	230	221	222	222	222
7	242	230	214	227	206	213	230	221	222	222
8	208	246	233	218	230	210	217	233	225	225
9	259	229	270	256	239	253	230	238	256	247
10	230	258	228	269	255	238	252	229	237	255
11	212	227	255	225	266	252	235	249	226	234
12	267	218	233	261	231	272	259	241	255	232
TOTAL	3,099	3,073	3,116	3,136	3,122	3,143	3,121	3,114	3,126	3,123
K-12	2,933	2,914	2,948	2,966	2,953	2,974	2,951	2,943	2,955	2,951
K-5	1,285	1,292	1,287	1,303	1,312	1,305	1,307	1,309	1,311	1,313
6-8	680	690	675	651	650	653	668	676	669	670
9-12	968	932	986	1,012	991	1,016	976	958	975	969



Comparison of Projection Models—FTE Student Counts

Figures 14-18 and Tables 23-27 compare the four FTE count projection models broken down by total 4K-12, K-12, and elementary, middle and secondary grade groupings.

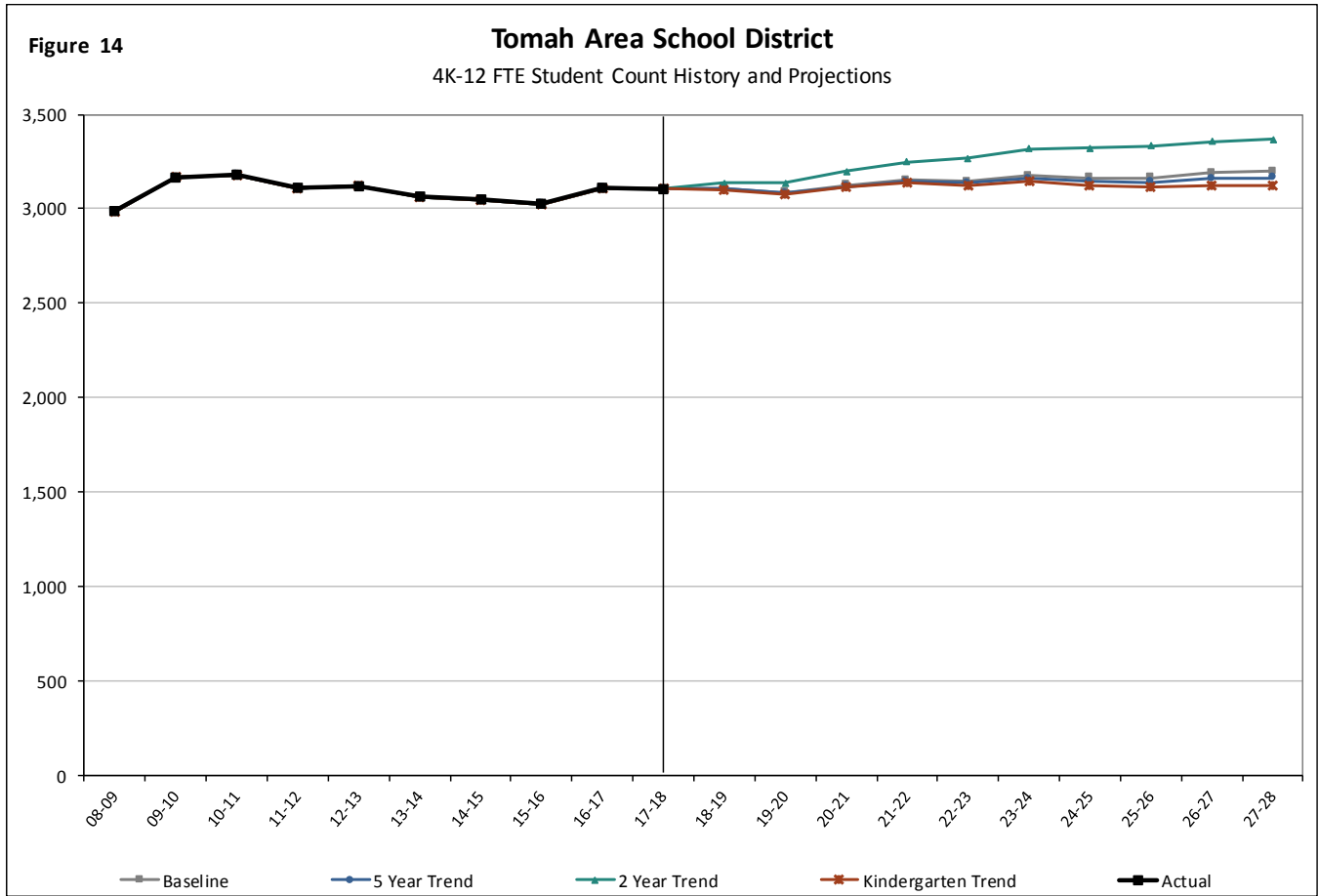


TABLE 23
Summary of 4K-12 FTE Student Count Projections
Tomah Area School District

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	3,110	3,086	3,124	3,152	3,145	3,177	3,163	3,164	3,190	3,197
5 Year Trend	3,105	3,082	3,118	3,143	3,135	3,161	3,144	3,142	3,160	3,165
2 Year "Trend"	3,137	3,136	3,198	3,249	3,268	3,316	3,320	3,332	3,357	3,366
Kindergarten Trend	3,099	3,073	3,116	3,136	3,122	3,143	3,121	3,114	3,126	3,123

From the 2017/18 FTE student count of 3,104, three of four models project relatively constant 4K-12 students over the next five years, but the Two Year Trend points to an increase. The projections five years from now (2022/23) range from 3,122 to 3,268 FTE students, with the percentage increases spanning 1 to 5 percent. The first three models then project continuing growth, while the Kindergarten Trend remains steady.



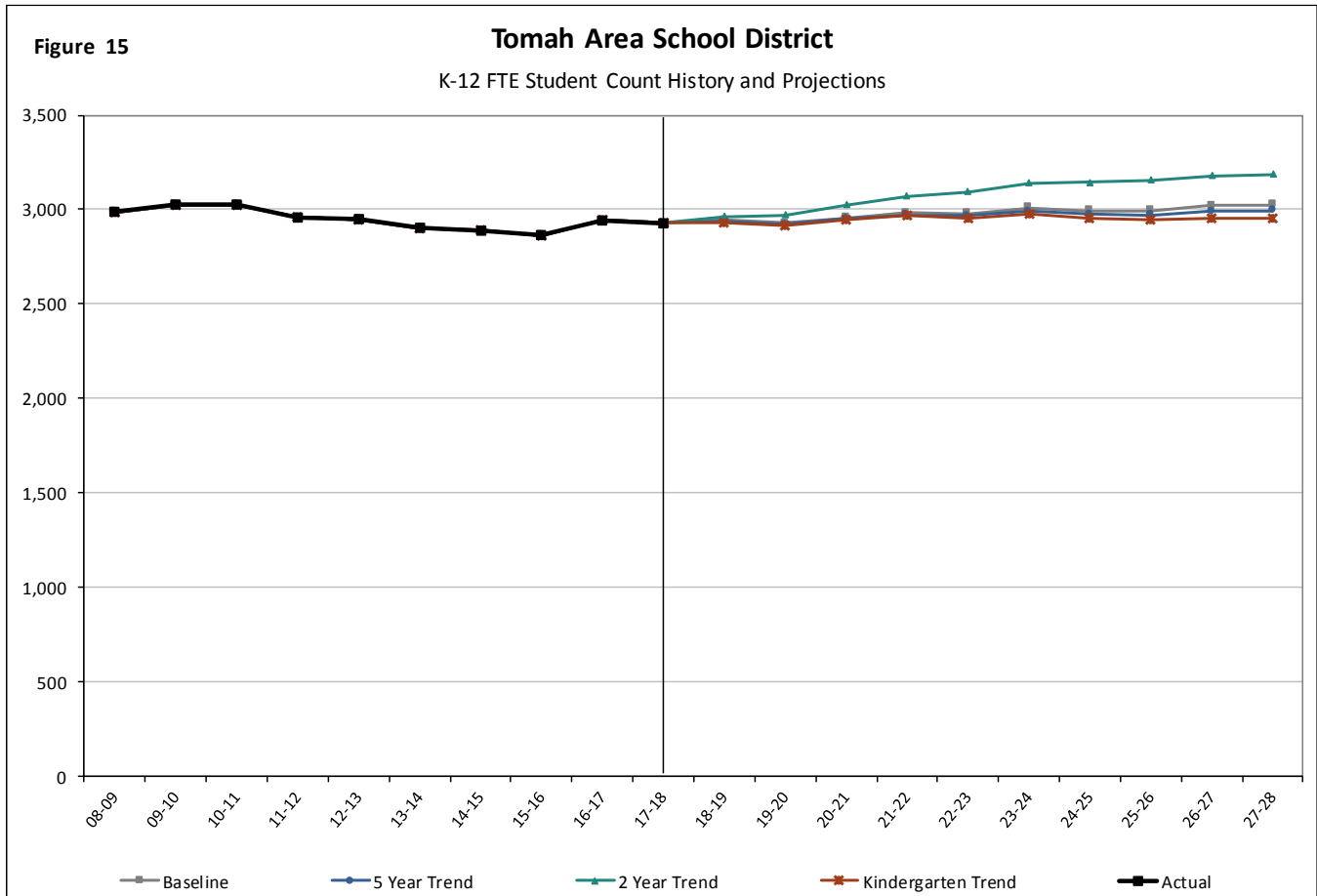


TABLE 24
Summary of K-12 FTE Student Count Projections
Tomah Area School District

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	2,945	2,928	2,957	2,984	2,978	3,009	2,994	2,995	3,020	3,027
5 Year Trend	2,939	2,923	2,950	2,973	2,967	2,992	2,974	2,972	2,989	2,993
2 Year "Trend"	2,965	2,971	3,023	3,073	3,094	3,141	3,144	3,155	3,180	3,188
Kindergarten Trend	2,933	2,914	2,948	2,966	2,953	2,974	2,951	2,943	2,955	2,951

From the 2017/18 FTE student count of 2,928, three of four models project relatively constant K-12 FTE students over the next five years, but the Two Year Trend points to an increase. The projections five years from now (2022/23) range from 2,953 to 3,094 FTE students, with the percentage increases spanning 1 to 6 percent. The first three models then project continuing growth, while the Kindergarten Trend remains steady.



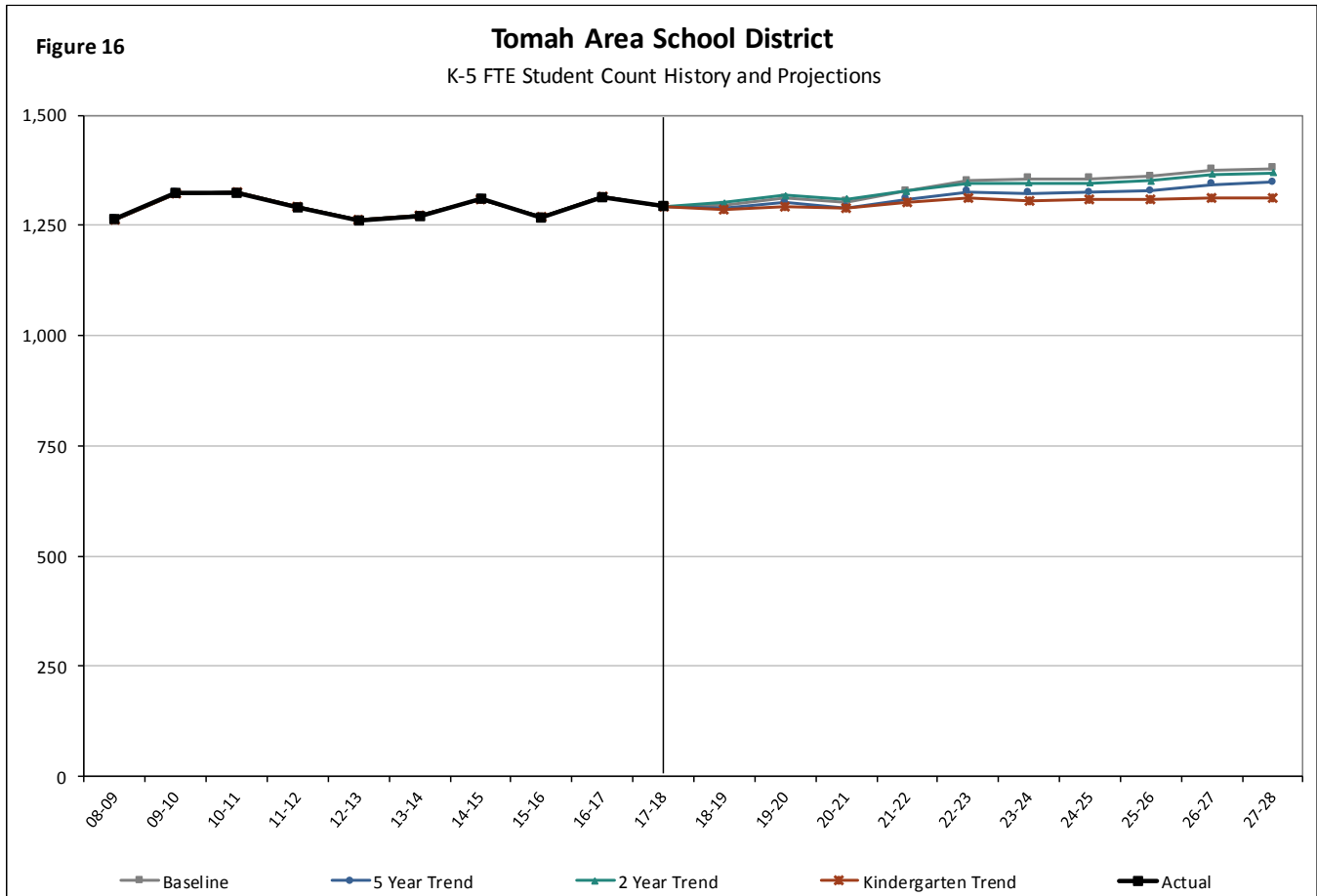


TABLE 25
Summary of K-5 FTE Student Count Projections
Tomah Area School District

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	1,295	1,311	1,303	1,328	1,350	1,355	1,356	1,360	1,375	1,379
5 Year Trend	1,291	1,301	1,289	1,310	1,326	1,323	1,324	1,329	1,343	1,347
2 Year "Trend"	1,302	1,317	1,309	1,328	1,346	1,346	1,346	1,350	1,366	1,370
Kindergarten Trend	1,285	1,292	1,287	1,303	1,312	1,305	1,307	1,309	1,311	1,313

From the K-5th grades' 2017/18 FTE count of 1,293, all four models project modest increases through 2022/23. The projections five years from now range from 1,312 to 1,350 FTE students, with the percentage change spanning 1 to 4 percent. Beyond that point, the first three models predict continuing gains, while the Kindergarten Trend remains level.



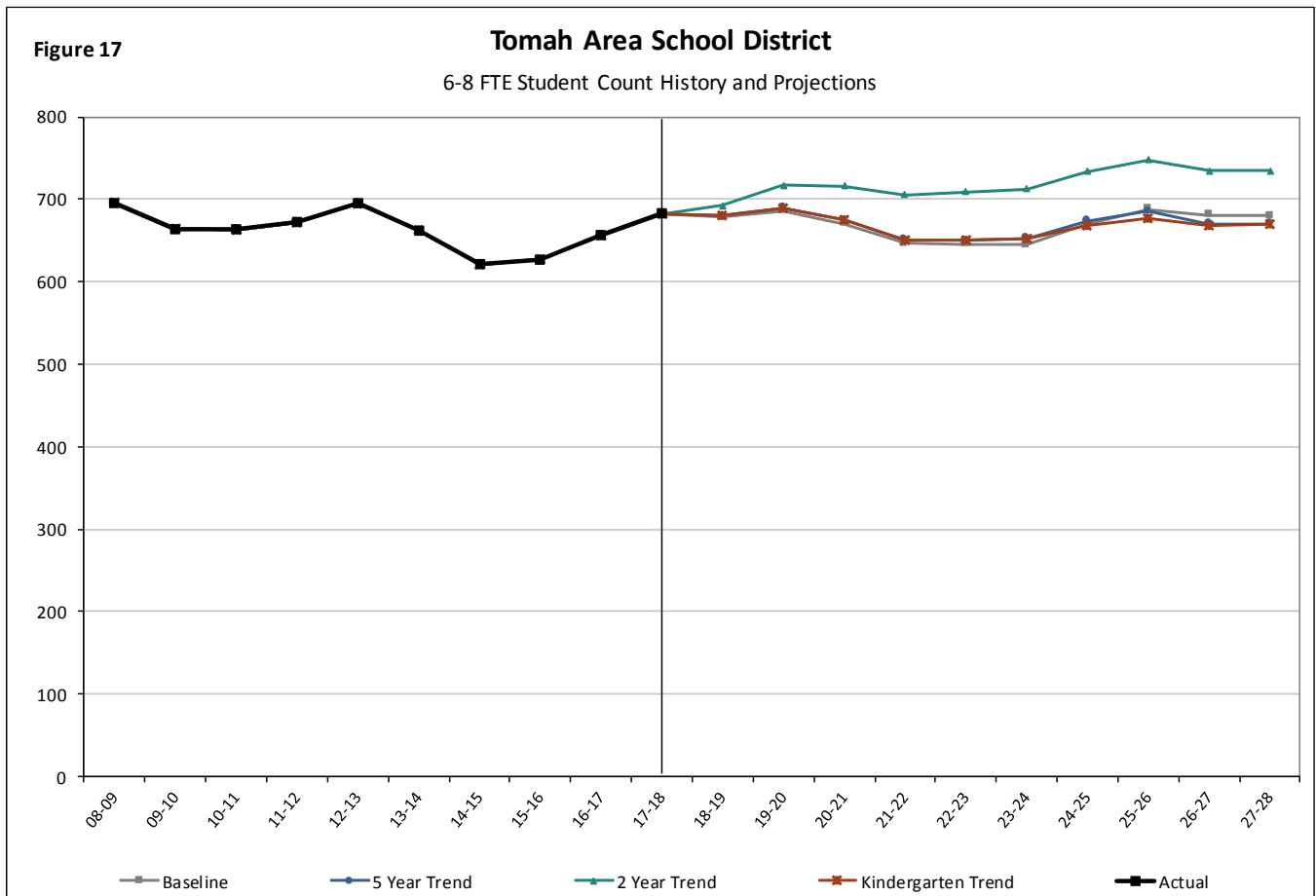


TABLE 26
Summary of 6-8 FTE Student Count Projections
Tomah Area School District

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	678	686	671	647	646	645	670	688	680	680
5 Year Trend	680	690	675	651	650	653	674	685	671	671
2 Year "Trend"	692	717	716	706	709	713	733	748	734	734
Kindergarten Trend	680	690	675	651	650	653	668	676	669	670

From the 6th-8th grades' 2017/18 FTE count of 683, three models project moderate losses, but the 2-Year Trend predicts a gain, for the next five years. The projected FTE students for 2022/23 range from 646 to 709, with the percentage changes spanning -5 to 4 percent. All four models then predict increasing enrollment, with the Baseline, 5 Year and Kindergarten trends nearing the current FTE count.



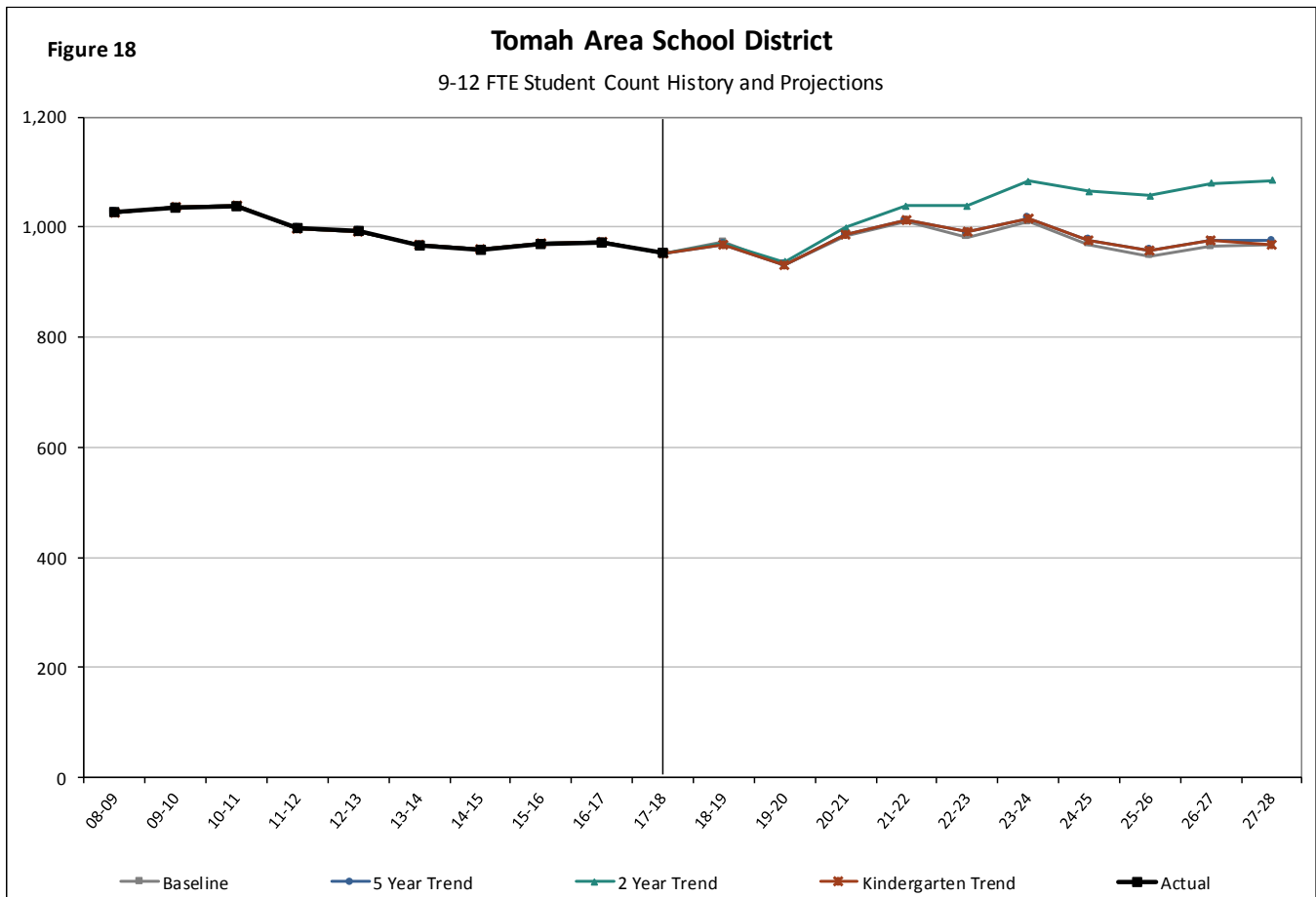


TABLE 27
Summary of 9-12 FTE Student Count Projections
Tomah Area School District

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	972	932	984	1,009	982	1,009	968	947	964	968
5 Year Trend	968	932	986	1,012	991	1,016	976	958	975	976
2 Year "Trend"	971	937	999	1,039	1,039	1,083	1,064	1,057	1,079	1,084
Kindergarten Trend	968	932	986	1,012	991	1,016	976	958	975	969

From the 9th-12th grades' 2017/18 FTE count of 952, all models project gains for the next five years. The projected FTE students for 2022/23 range from 982 to 1,039, with the percentage changes spanning 3 to 9 percent. The Two Year Trend then continues to predict growth at the high school level, while the other three models decline slightly.



Elementary School Projections

The following pages summarize projections made for the elementary schools, grades 4K through 5, in the Tomah Area School District. The schools are presented in alphabetical order.

Similar to the district-level projections, Baseline, Five-Year, Two-Year, and Kindergarten trend models are employed to project elementary school students. One important difference is that the sum of projected grade enrollments across various schools will not necessarily sum to the district totals provided in the previous sections of this report. The projections for each school are made independently, to illustrate possible outcomes based on historical birth and enrollment patterns.

It is important to remember that projections made for smaller units of geography, such as elementary attendance areas, are less reliable than projections made for the district as a whole. Furthermore, any changes within the district in terms of inter-school transfers (e.g., busing students to rebalance class sizes or for special programming) or attendance rule changes cannot be anticipated in a projections scenario, as these modifications are policy decisions made by the school board. Even with these caveats, elementary school projections do serve as a reasonable guide for projecting the future trend and magnitude of enrollments in the district's individual schools.

The Camp Douglas and Oakdale schools are presented as one "school" below because of the progression of 2nd graders at Oakdale to 3rd grade at Camp Douglas.



Camp Douglas and Oakdale Schools

Figure 19 and Table 28 below illustrate the enrollment history of the Oakdale (grades 4K-2) and Camp Douglas (grades 3-5) schools for the past ten years. In general, enrollment has been decreasing across the schools, although modest gains have been seen in the past two years.

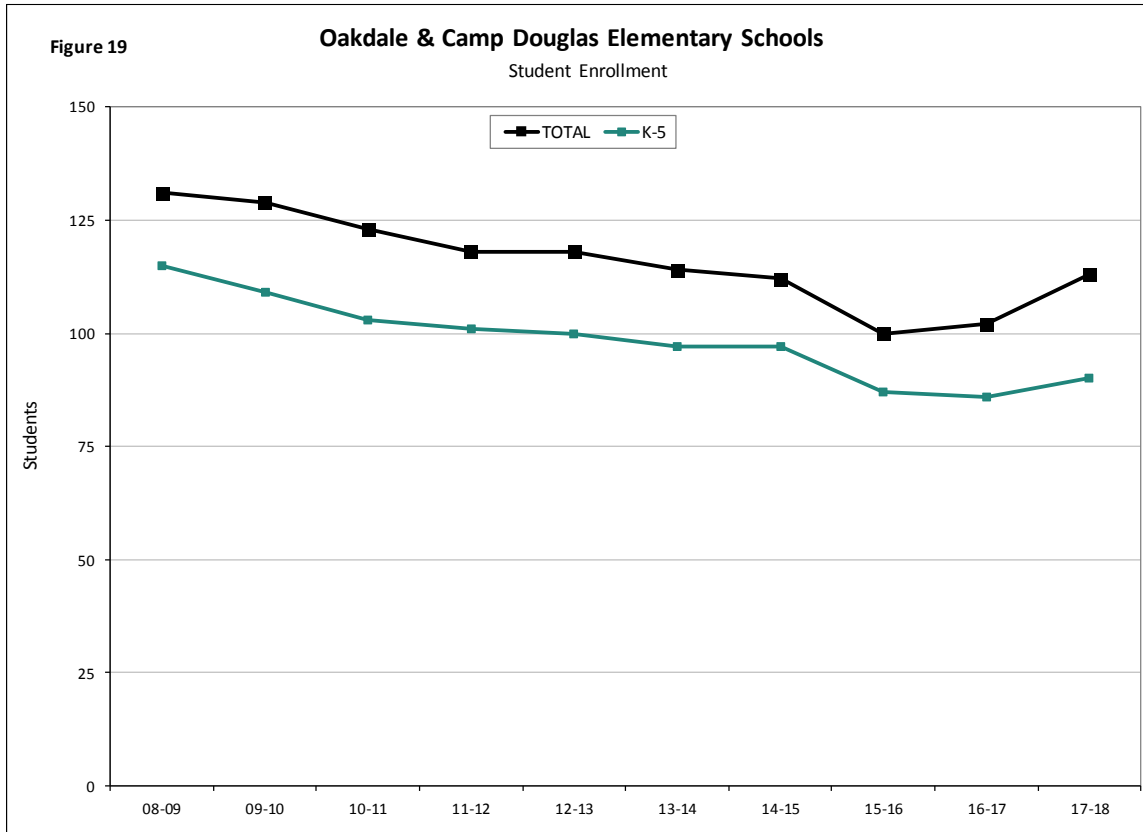


TABLE 28
Student Enrollment
Oakdale & Camp Douglas Elementary Schools

	SCHOOL YEAR									
	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
4K	16	20	20	17	18	17	15	13	16	23
K	20	23	16	19	14	21	15	12	11	18
1	19	15	21	14	20	16	21	13	14	14
2	16	20	14	21	13	16	18	20	12	14
3	24	14	20	13	20	13	13	11	19	11
4	24	18	15	19	12	20	14	14	12	16
5	12	19	17	15	21	11	16	17	18	17
TOTAL	131	129	123	118	118	114	112	100	102	113
K-5	115	109	103	101	100	97	97	87	86	90
Oakdale	71	78	71	71	65	70	69	58	53	69
Camp Douglas	60	51	52	47	53	44	43	42	49	44



The average grade progression ratios for Oakdale and Camp Douglas schools, displayed in Table 29, are in the range of 1.0 for most grades across the Baseline, 5 Year Trend and 2 Year Trend models, indicating that projected enrollment will likely be fairly stable.

TABLE 29
Grade Progression Ratios
Oakdale & Camp Douglas Elementary Schools

YEAR CHANGES	B:K	K:1	1:2	2:3	3:4	4:5
08-09/09-10	0.088	0.750	1.053	0.875	0.750	0.792
09-10/10-11	0.064	0.913	0.933	1.000	1.071	0.944
10-11/11-12	0.077	0.875	1.000	0.929	0.950	1.000
11-12/12-13	0.056	1.053	0.929	0.952	0.923	1.105
12-13/13-14	0.079	1.143	0.800	1.000	1.000	0.917
13-14/14-15	0.057	1.000	1.125	0.813	1.077	0.800
14-15/15-16	0.045	0.867	0.952	0.611	1.077	1.214
15-16/16-17	0.041	1.167	0.923	0.950	1.091	1.286
16-17/17-18	0.069	1.273	1.000	0.917	0.842	1.417
Baseline	0.067	1.002	0.970	0.929	1.027	1.036
5 Year Trend	0.058	1.090	0.960	0.858	1.017	1.127
2 Year "Trend"	0.055	1.220	0.962	0.933	0.967	1.351

*Shaded progression ratios are excluded from the Baseline

NOTE: Births are not available specifically for the Oakdale and Camp Douglas attendance areas. The B:K values represent the share of births in the district area that "feed into" the Oakdale kindergarten.



Baseline Projection

The Baseline model (Table 30) uses the grade progression ratios from the last ten years and the long-term birth trends to project future enrollment. This model predicts that 4K-5 enrollment at Oakdale/Camp Douglas will rise slightly through 2022/23, then increase a similar amount through 2027/28.

TABLE 30
Baseline Projection Model
Oakdale & Camp Douglas Elementary Schools

	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	17	16	17	17	17	17	17	17	17	18
K	18	18	17	18	18	18	18	18	19	19
1	18	18	18	17	18	19	18	18	18	19
2	14	18	18	18	17	18	18	18	18	18
3	13	13	16	17	16	16	17	17	17	17
4	11	13	13	17	17	17	16	17	17	17
5	17	12	14	13	17	18	17	17	18	18
TOTAL	108	108	113	117	120	123	121	122	124	126
Oakdale	67	70	70	70	70	72	71	71	72	74
Camp Douglas	41	38	43	47	50	51	50	51	52	52

5 Year Trend Projection

The Five Year Trend model (Table 31) uses the last five years’ grade progression ratios and recent trends in births to project what future enrollments would look like if more recent patterns were representative of future trends. This model projects that 4K-5 enrollment at Oakdale/Camp Douglas will decrease slightly, return to current enrollment in 2022/23, then remain level.

TABLE 31
5 Year Trend Projection Model
Oakdale & Camp Douglas Elementary Schools

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	17	16	17	17	17	17	17	17	17	18
K	16	16	15	16	16	16	16	16	16	16
1	20	17	17	16	17	17	17	17	17	18
2	13	19	17	16	16	17	17	17	17	17
3	12	12	16	14	14	13	14	14	14	14
4	11	12	12	16	14	14	14	14	15	14
5	18	13	14	13	19	16	16	15	16	16
TOTAL	107	105	108	108	113	110	111	110	112	113
Oakdale	66	68	66	65	66	67	67	67	67	69
Camp Douglas	41	37	42	43	47	43	44	43	45	44



2 Year "Trend" Projection

The Two Year "Trend" model (Table 32) uses the last two years' grade progression ratios to project what future enrollments would look like if even more recent patterns were representative of future trends. This model projects that 4K-5 enrollment at Oakdale/Camp Douglas will increase through 2022/23, followed by relatively steady enrollment.

TABLE 32
2 Year "Trend" Projection Model
Oakdale & Camp Douglas Elementary Schools

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	17	16	17	17	17	17	17	17	17	18
K	15	15	14	15	15	15	15	15	15	15
1	22	18	18	17	18	19	18	18	19	19
2	13	21	18	17	17	18	18	18	18	18
3	13	13	20	17	16	16	16	17	16	17
4	11	13	12	19	16	16	15	16	16	16
5	22	14	17	16	26	22	21	20	22	22
TOTAL	113	110	116	118	125	123	120	121	123	125
Oakdale	67	70	67	66	67	69	68	68	69	70
Camp Douglas	46	40	49	52	58	54	52	53	54	55

Kindergarten Trend Projection

Table 33 shows the projected enrollment for the Kindergarten Trend model, using the long-term trend in kindergartners at Oakdale, and then applying five-year grade progression ratios to project 1st through 5th grades. This model projects that 4K-5 enrollment at Oakdale/Camp Douglas will remain fairly level through 2022/23 and then decline slightly.

TABLE 33
Kindergarten Trend Projection Model
Oakdale & Camp Douglas Elementary Schools

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	17	16	17	17	17	17	17	17	17	18
K	17	17	16	16	16	15	15	15	14	14
1	20	19	18	18	17	17	17	16	16	16
2	13	19	18	17	17	17	16	16	16	15
3	12	12	16	15	15	15	14	14	14	13
4	11	12	12	16	16	15	15	15	14	14
5	18	13	14	13	19	17	17	17	16	16
TOTAL	108	108	111	112	117	113	111	110	107	106
Oakdale	67	71	69	68	67	66	65	64	63	63
Camp Douglas	41	37	42	44	50	47	46	46	44	43



Comparison of Projection Models—Camp Douglas and Oakdale

Enrollment projections for Camp Douglas and Oakdale schools are shown in Figure 20 and Table 34. The models project a range of 113 to 125 at 2022/23.

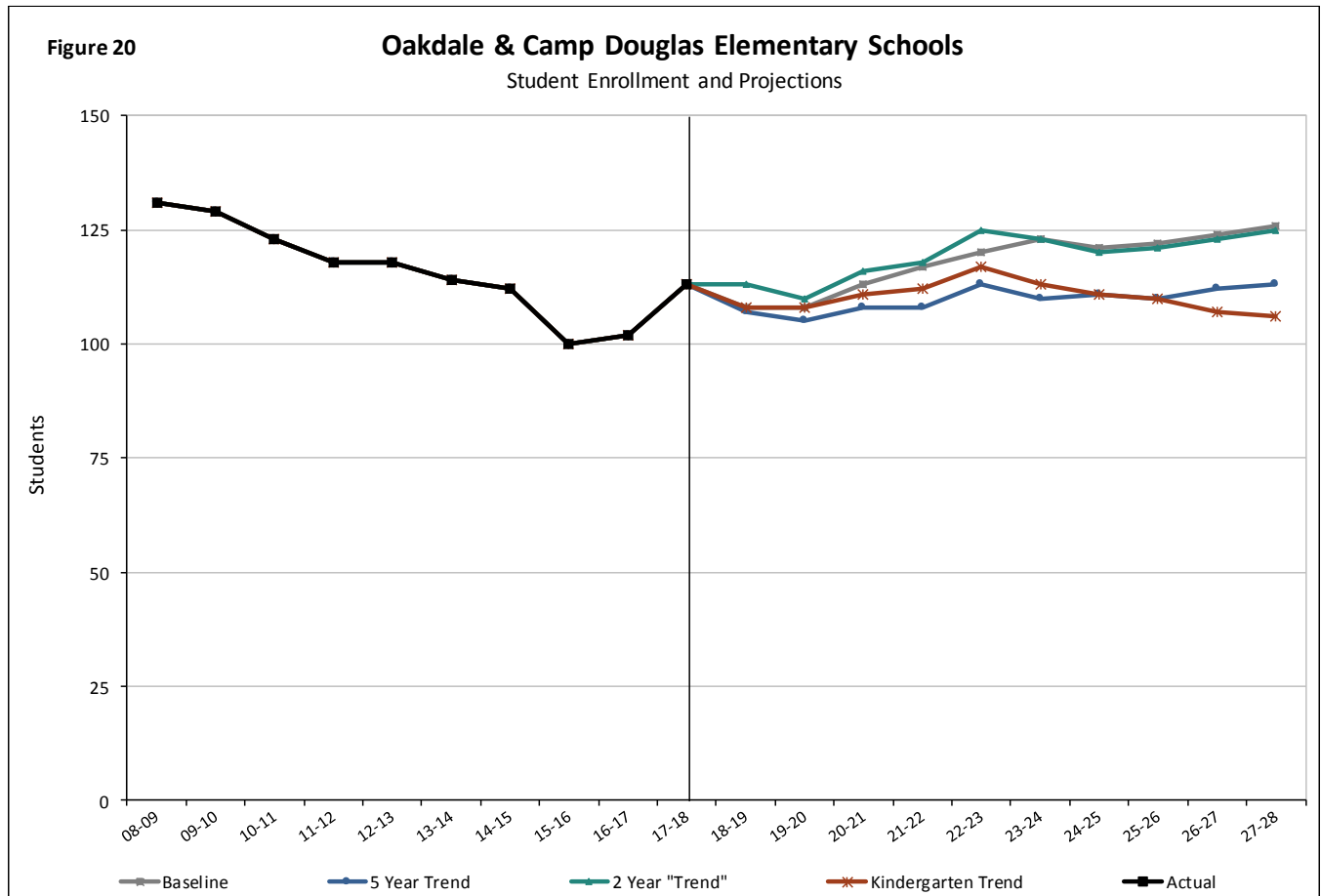


TABLE 34
Summary of Elementary School Enrollment Projections
Oakdale & Camp Douglas Elementary Schools

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	108	108	113	117	120	123	121	122	124	126
5 Year Trend	107	105	108	108	113	110	111	110	112	113
2 Year "Trend"	113	110	116	118	125	123	120	121	123	125
Kindergarten Trend	108	108	111	112	117	113	111	110	107	106



LaGrange Elementary

Figure 21 and Table 35 below illustrate the enrollment history of LaGrange Elementary (grades 4K-5) for the past ten years. In general, K-5 enrollment has been steady across the decade, although a gain has been seen in the past two years.

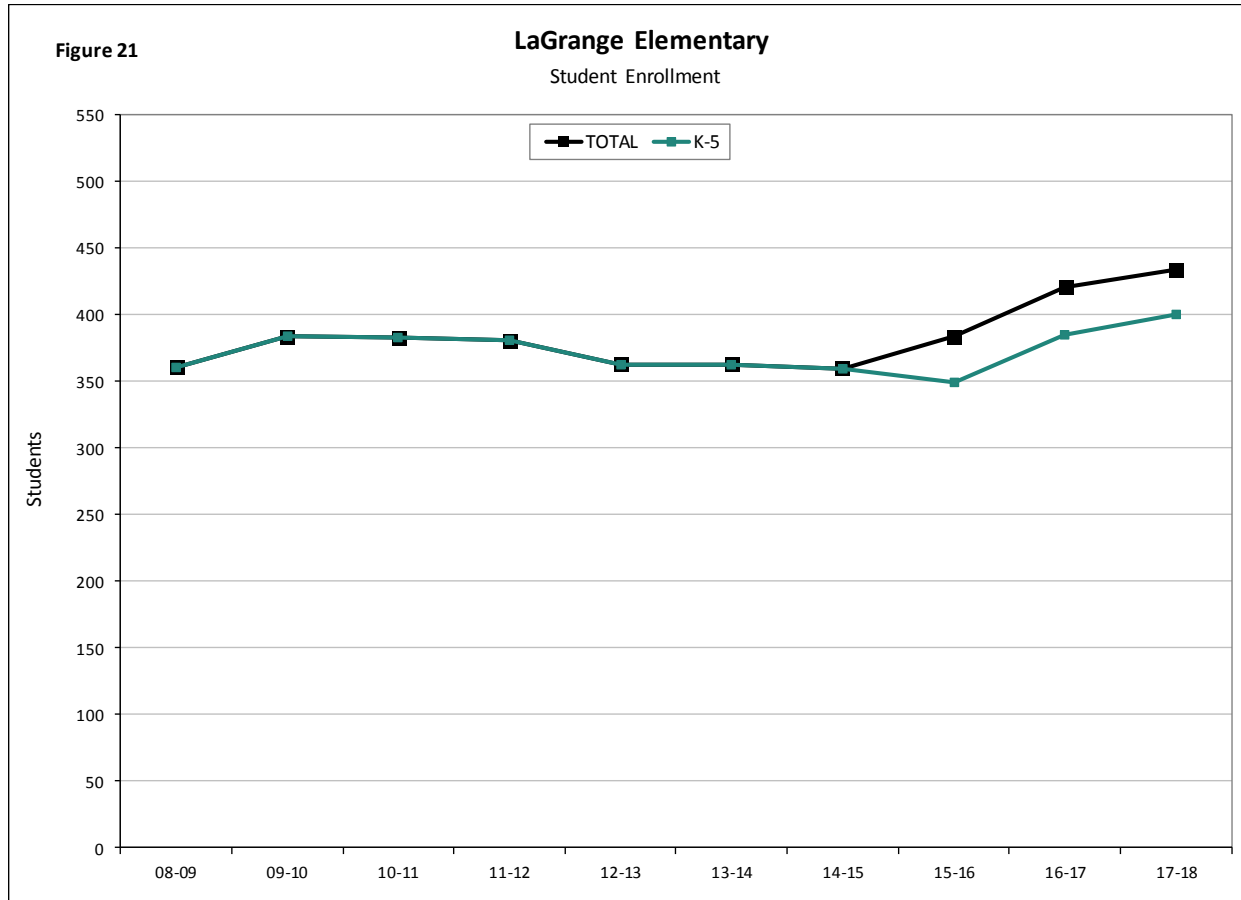


TABLE 35
Student Enrollment
LaGrange Elementary

	SCHOOL YEAR									
	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
4K								35	36	34
K	100	109	68	81	62	55	60	58	60	64
1	49	60	65	54	60	64	58	62	57	63
2	67	42	61	61	54	60	61	58	61	61
3	46	69	47	61	64	49	66	64	64	69
4	51	54	75	51	73	61	50	59	73	69
5	48	50	67	73	50	74	65	48	70	74
TOTAL	361	384	383	381	363	363	360	384	421	434
K-5	361	384	383	381	363	363	360	349	385	400



The average grade progression ratios for LaGrange Elementary, displayed in Table 36, are close to 1.0 in the Baseline and the 5 Year Trend models, but higher in more recent years (the 2 Year Trend); the latter model points to a likely projected enrollment increase.

TABLE 36
Grade Progression Ratios
LaGrange Elementary

YEAR CHANGES	B:K	K:1	1:2	2:3	3:4	4:5
08-09/09-10	0.415	0.600	0.857	1.030	1.174	0.980
09-10/10-11	0.274	0.596	1.017	1.119	1.087	1.241
10-11/11-12	0.330	0.794	0.938	1.000	1.085	0.973
11-12/12-13	0.248	0.741	1.000	1.049	1.197	0.980
12-13/13-14	0.207	1.032	1.000	0.907	0.953	1.014
13-14/14-15	0.226	1.055	0.953	1.100	1.020	1.066
14-15/15-16	0.217	1.033	1.000	1.049	0.894	0.960
15-16/16-17	0.226	0.983	0.984	1.103	1.141	1.186
16-17/17-18	0.246	1.050	1.070	1.131	1.078	1.014
Baseline	0.247	0.955	0.985	1.064	1.082	0.998
5 Year Trend	0.224	1.031	1.001	1.058	1.017	1.048
2 Year "Trend"	0.236	1.016	1.027	1.117	1.109	1.100

*Shaded progression ratios are excluded from the Baseline

NOTE: Births are not available specifically for the LaGrange attendance area. The B:K values represent the share of births in the district area that “feed into” the LaGrange kindergarten.



Baseline Projection

The Baseline model (Table 37) uses the grade progression ratios from the last ten years and the long-term birth trends to project future enrollment. This model predicts that 4K-5 enrollment at LaGrange will remain level through 2022/23 and then rise slightly.

TABLE 37
Baseline Projection Model
LaGrange Elementary

	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	35	34	36	36	36	36	36	36	36	37
K	67	66	64	67	68	67	67	68	68	68
1	61	64	63	61	64	65	64	64	65	65
2	62	60	63	63	60	63	64	63	63	64
3	65	66	64	67	67	64	67	68	67	68
4	75	70	71	69	73	72	69	73	74	73
5	69	75	70	71	69	73	72	69	73	74
TOTAL	434	435	431	434	437	440	439	441	446	449

5 Year Trend Projection

The Five Year Trend model (Table 38) uses the last five years’ grade progression ratios and recent trends in births to project what future enrollments would look like if more recent patterns were representative of future trends. This model projects that 4K-5 enrollment at LaGrange will remain constant through 2022/23 and the balance of the projection period.

TABLE 38
5 Year Trend Projection Model
LaGrange Elementary

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	35	34	36	36	36	36	36	36	36	37
K	61	60	58	61	62	61	61	62	62	62
1	66	63	62	60	63	64	63	63	64	64
2	63	66	63	62	60	63	64	63	63	64
3	65	67	70	67	66	63	67	68	67	67
4	70	66	68	71	68	67	64	68	69	68
5	72	74	69	71	75	71	70	67	71	72
TOTAL	432	430	426	428	430	425	425	427	432	434



2 Year “Trend” Projection

The Two Year “Trend” model (Table 39) uses the last two years’ grade progression ratios to project what future enrollments would look like if even more recent patterns were representative of future trends. With some of the highest grade progression ratios, this model projects that 4K-5 enrollment at LaGrange will increase strongly through 2022/23—roughly 10%—then remain steady.

TABLE 39
2 Year "Trend" Projection Model
LaGrange Elementary

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	35	34	36	36	36	36	36	36	36	37
K	64	64	61	64	65	64	65	65	65	65
1	65	65	65	62	65	66	65	66	66	66
2	65	67	67	66	64	67	68	67	67	68
3	68	72	75	75	74	71	75	76	75	75
4	77	76	80	83	83	82	79	83	84	83
5	76	84	83	88	91	92	90	87	92	92
TOTAL	450	462	467	474	478	478	478	480	485	486

Kindergarten Trend Projection

Table 40 shows the projected enrollment for the Kindergarten Trend model, using the short-term trend in kindergartners at LaGrange, and then applying five-year grade progression ratios to project 1st through 5th grades. This model projects that 4K-5 enrollment at LaGrange will increase gradually through 2022/23—roughly 6%—and then increase steadily.

TABLE 40
Kindergarten Trend Projection Model
LaGrange Elementary

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	35	34	36	36	36	36	36	36	36	37
K	63	65	67	68	70	72	74	76	77	79
1	66	65	67	69	70	72	74	76	78	80
2	63	66	65	67	69	71	72	74	76	78
3	65	67	70	69	71	73	75	77	79	81
4	70	66	68	71	70	72	74	76	78	80
5	72	74	69	71	75	73	75	78	80	82
TOTAL	434	437	442	451	461	469	480	493	504	517



Comparison of Projection Models—LaGrange

Enrollment projections for LaGrange Elementary are shown in Figure 22 and Table 41. The models project a range of 430 to 478 at 2022/23.

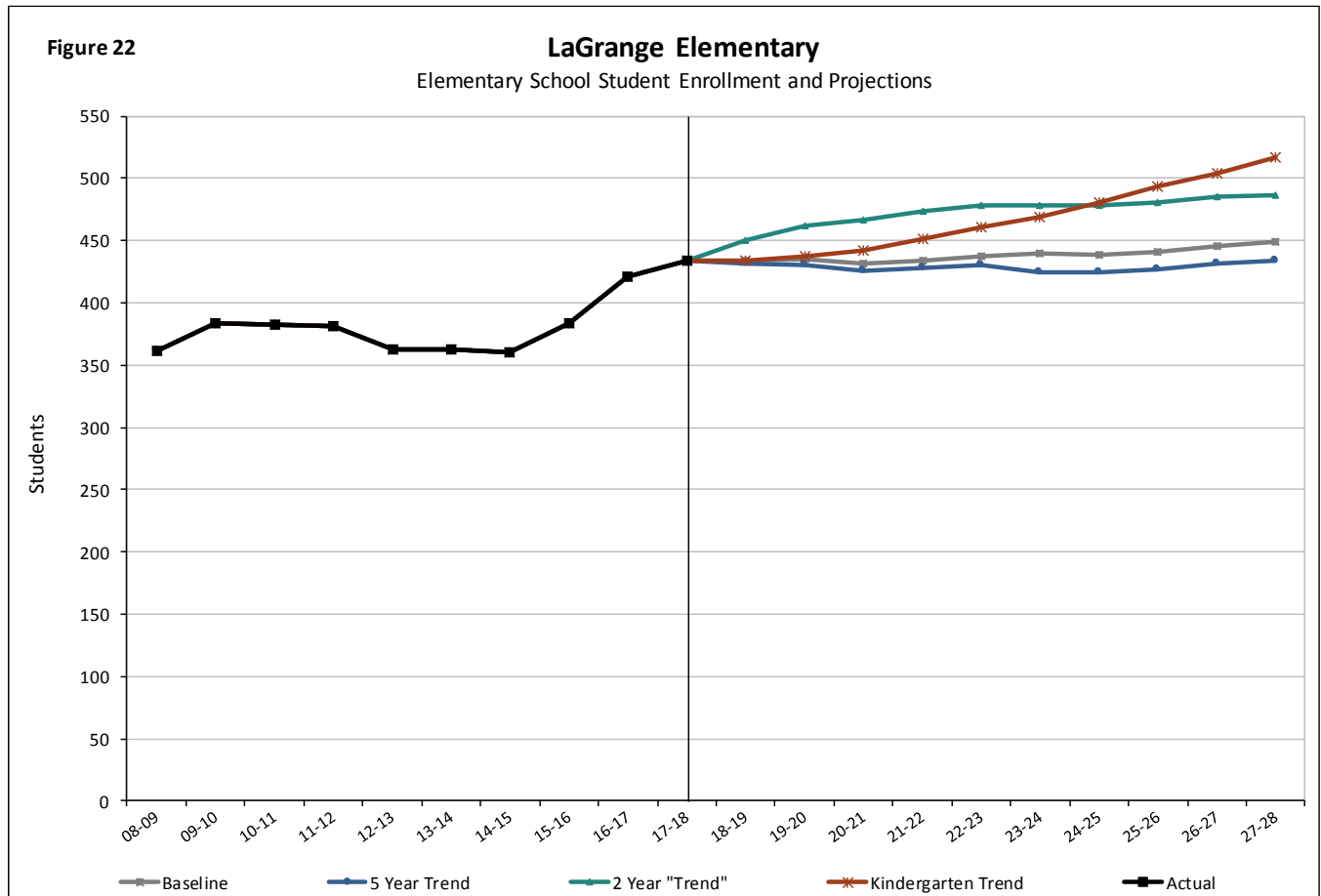


TABLE 41
Summary of Elementary School Enrollment Projections
LaGrange Elementary

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	434	435	431	434	437	440	439	441	446	449
5 Year Trend	432	430	426	428	430	425	425	427	432	434
2 Year "Trend"	450	462	467	474	478	478	478	480	485	486
Kindergarten Trend	434	437	442	451	461	469	480	493	504	517



Lemonweir Elementary

Figure 23 and Table 42 below illustrate the enrollment history of the Lemonweir Elementary (grades 4K-5) for the past ten years. In general, K-5 enrollment has been steady across the decade except in the current school year. Prior to 2017/18, the school's K-5 enrollment averaged 302.

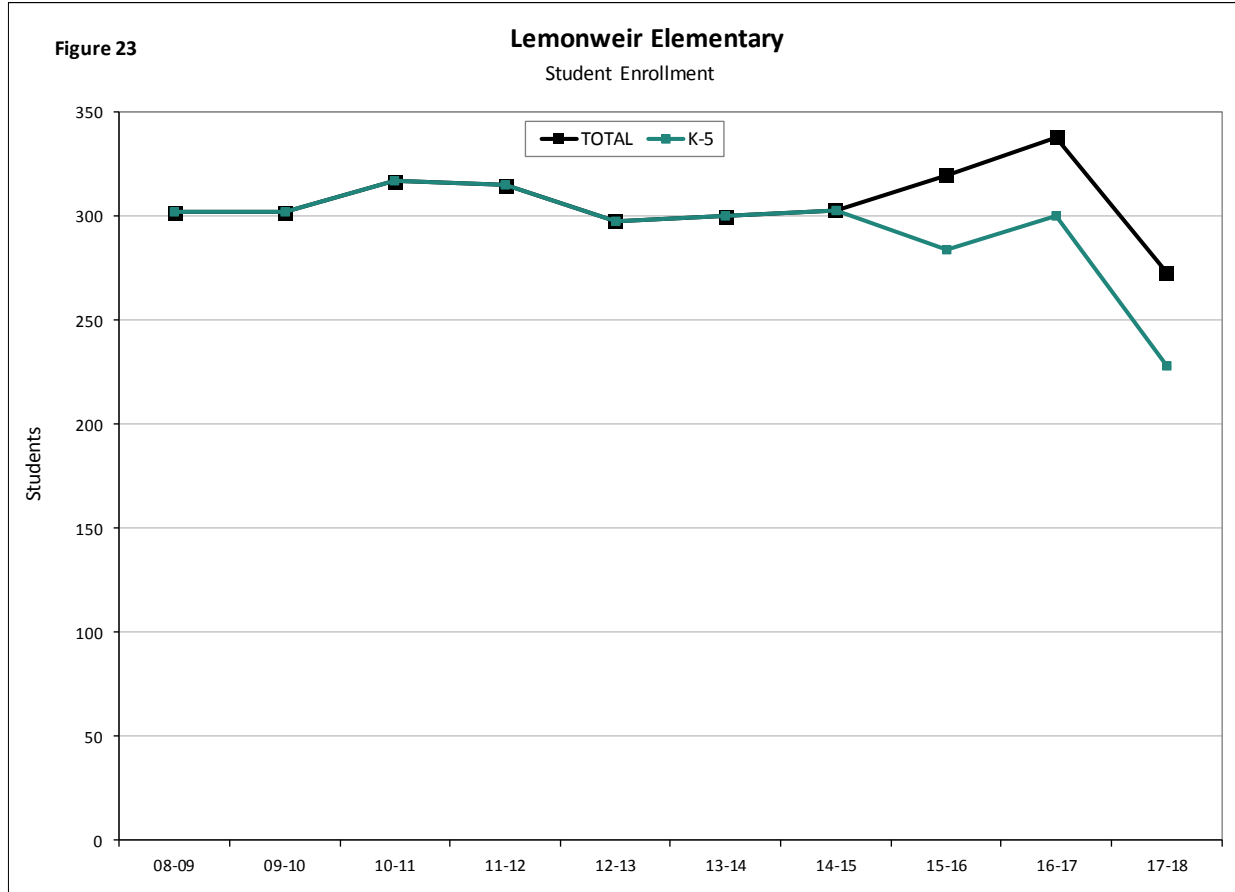


TABLE 42
Student Enrollment
Lemonweir Elementary

	SCHOOL YEAR									
	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
4K								36	38	45
K	21	23	58	59	59	48	61	44	51	46
1	37	55	59	53	54	59	47	55	44	40
2	59	42	56	61	51	56	59	47	54	35
3	64	60	44	46	48	47	47	49	50	40
4	72	53	49	47	42	46	44	48	52	31
5	49	69	51	49	44	44	45	41	49	36
TOTAL	302	302	317	315	298	300	303	320	338	273
K-5	302	302	317	315	298	300	303	284	300	228



The average grade progression ratios for Lemonweir Elementary, displayed in Table 43, are generally below 1.0 in the Baseline and the 5 Year Trend models, and quite a bit lower in more recent years (the 2 Year Trend), which is particularly affected by the decreased 2017/18 enrollment.

TABLE 43
Grade Progression Ratios
Lemonweir Elementary

YEAR CHANGES	B:K	K:1	1:2	2:3	3:4	4:5
08-09/09-10	0.088	2.619	1.135	1.017	0.828	0.958
09-10/10-11	0.234	2.565	1.018	1.048	0.817	0.962
10-11/11-12	0.241	0.914	1.034	0.821	1.068	1.000
11-12/12-13	0.236	0.915	0.962	0.787	0.913	0.936
12-13/13-14	0.180	1.000	1.037	0.922	0.958	1.048
13-14/14-15	0.230	0.979	1.000	0.839	0.936	0.978
14-15/15-16	0.165	0.902	1.000	0.831	1.021	0.932
15-16/16-17	0.192	1.000	0.982	1.064	1.061	1.021
16-17/17-18	0.177	0.784	0.795	0.741	0.620	0.692
Baseline	0.207	0.928	1.005	0.840	0.912	0.979
5 Year Trend	0.189	0.933	0.963	0.879	0.919	0.934
2 Year "Trend"	0.184	0.892	0.889	0.902	0.841	0.857

*Shaded progression ratios are excluded from the Baseline

NOTE: Births are not available specifically for the Lemonweir attendance area. The B:K values represent the share of births in the district area that “feed into” the Lemonweir kindergarten.



Baseline Projection

The Baseline model (Table 44) uses the grade progression ratios from the last ten years and the long-term birth trends to project future enrollment. This model predicts that 4K-5 enrollment at Lemonweir will recover to earlier levels through 2022/23 and then rise slightly.

TABLE 44
Baseline Projection Model
Lemonweir Elementary

	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	40	38	41	41	40	41	41	41	41	41
K	56	56	53	56	57	56	57	57	57	57
1	43	52	52	49	52	53	52	52	53	53
2	40	43	53	52	50	53	53	52	53	53
3	29	34	36	44	44	42	44	45	44	44
4	36	27	31	33	40	40	38	40	41	40
5	30	36	26	30	32	39	39	37	39	40
TOTAL	274	286	292	305	315	324	324	324	328	328

5 Year Trend Projection

The Five Year Trend model (Table 45) uses the last five years’ grade progression ratios and recent trends in births to project what future enrollments would look like if more recent patterns were representative of future trends. This model projects that 4K-5 enrollment at Lemonweir will gain slightly through 2022/23 and the balance of the projection period.

TABLE 45
5 Year Trend Projection Model
Lemonweir Elementary

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	40	38	41	41	40	41	41	41	41	41
K	51	51	49	51	52	51	52	52	52	52
1	43	48	47	45	48	49	48	48	48	49
2	39	41	46	46	44	46	47	46	46	47
3	31	34	36	41	40	38	41	41	41	41
4	37	28	31	33	37	37	35	37	38	37
5	29	34	26	29	31	35	34	33	35	35
TOTAL	270	274	276	286	292	297	298	298	301	302



2 Year “Trend” Projection

The Two Year “Trend” model (Table 46) uses the last two years’ grade progression ratios to project what future enrollments would look like if even more recent patterns were representative of future trends. With some of the lowest grade progression ratios, this model projects that 4K-5 enrollment at Lemonweir will decline slightly through 2022/23—roughly -3%—then remain steady.

TABLE 46
2 Year "Trend" Projection Model
Lemonweir Elementary

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	40	38	41	41	40	41	41	41	41	41
K	50	50	48	50	51	50	50	51	51	51
1	41	45	44	42	45	45	45	45	45	45
2	36	36	40	39	38	40	40	40	40	40
3	32	32	33	36	36	34	36	36	36	36
4	34	27	27	28	30	30	29	30	31	30
5	27	29	23	23	24	26	26	24	26	26
TOTAL	260	257	256	259	264	266	267	267	270	269

Kindergarten Trend Projection

Table 47 shows the projected enrollment for the Kindergarten Trend model, using the mid-range trend in kindergartners at Lemonweir, and then applying five-year grade progression ratios to project 1st through 5th grades. This model projects that 4K-5 enrollment at Lemonweir will recover gradually through 2022/23, and then increase slightly.

TABLE 47
Kindergarten Trend Projection Model
Lemonweir Elementary

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	40	38	41	41	40	41	41	41	41	41
K	50	50	50	51	51	51	52	52	53	53
1	43	46	47	47	47	48	48	48	49	49
2	39	41	45	45	45	46	46	46	47	47
3	31	34	36	39	40	40	40	40	41	41
4	37	28	31	33	36	36	37	37	37	37
5	29	34	26	29	31	34	34	34	34	35
TOTAL	269	271	276	285	290	296	298	298	302	303



Comparison of Projection Models—Lemonweir

Enrollment projections for Lemonweir Elementary are shown in Figure 24 and Table 48. The models project a range of 264 to 315 at 2022/23.

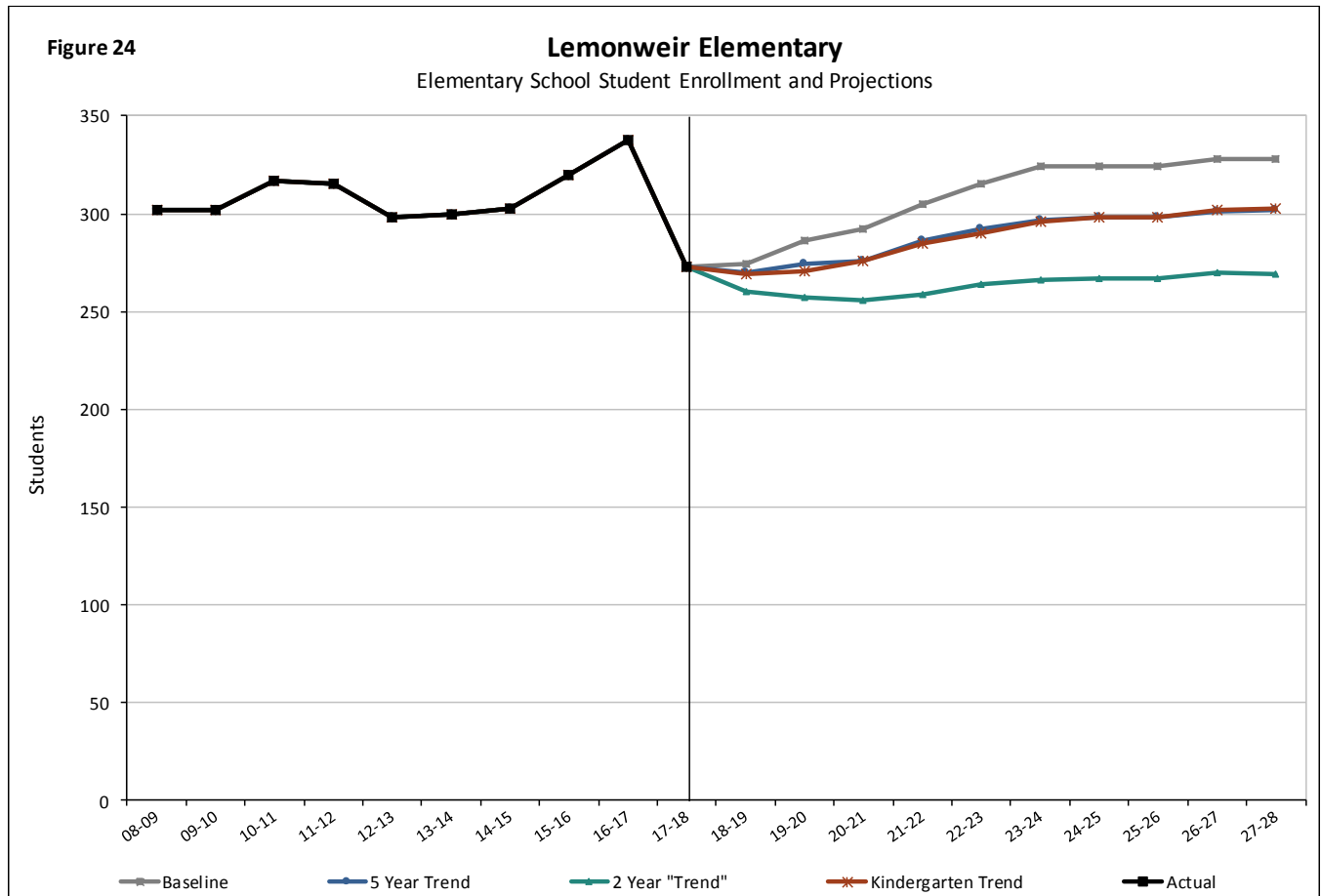


TABLE 48
Summary of Elementary School Enrollment Projections
Lemonweir Elementary

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	274	286	292	305	315	324	324	324	328	328
5 Year Trend	270	274	276	286	292	297	298	298	301	302
2 Year "Trend"	260	257	256	259	264	266	267	267	270	269
Kindergarten Trend	269	271	276	285	290	296	298	298	302	303



Miller Elementary

Figure 25 and Table 49 below illustrate the enrollment history of the Miller Elementary (grades K-5) for the past ten years. In general, K-5 enrollment has been very steady across the decade.

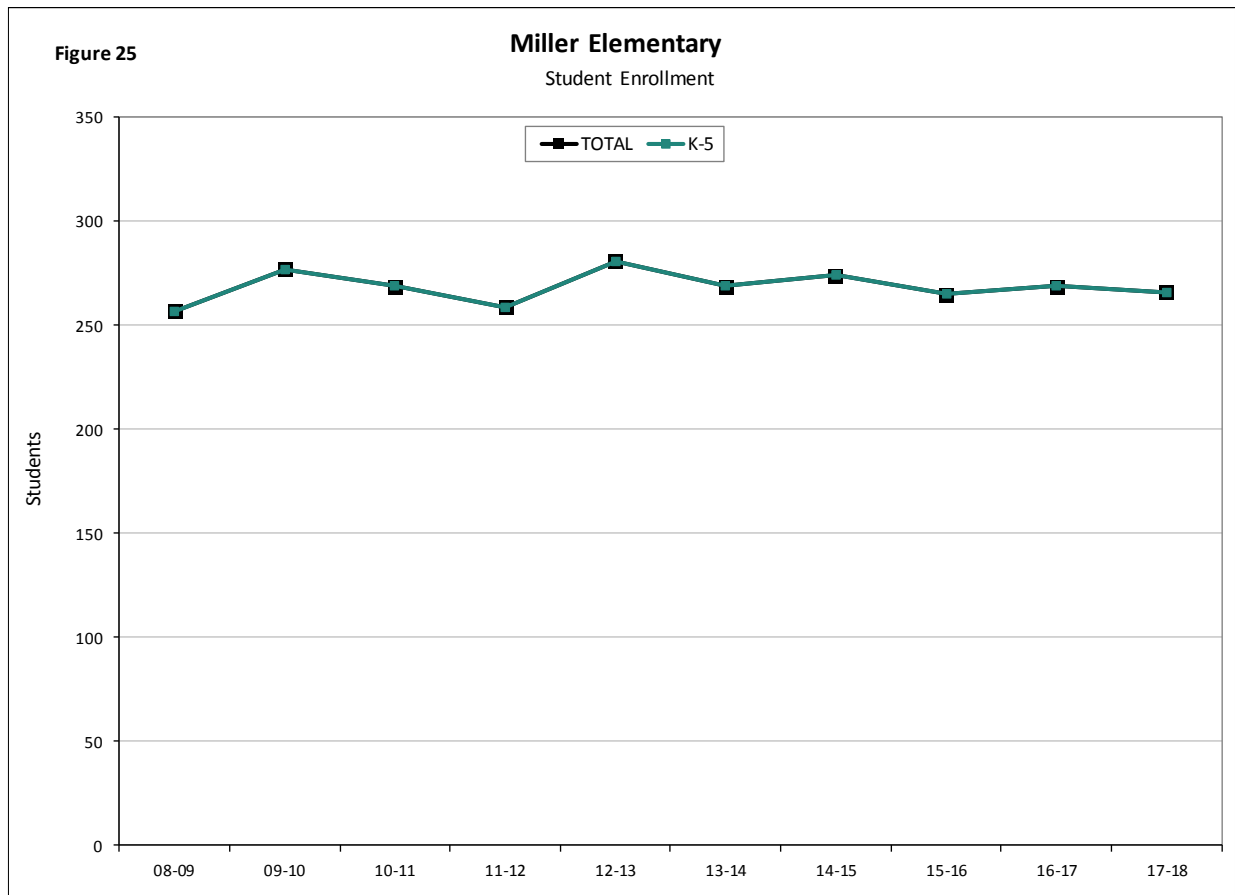


TABLE 49
Student Enrollment
Miller Elementary

	SCHOOL YEAR									
	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
4K										
K	20	46	19	20	40	40	39	41	40	45
1	40	41	61	36	38	42	40	41	44	41
2	53	42	40	58	40	40	50	41	46	42
3	45	46	47	45	67	45	44	48	41	43
4	50	53	53	49	49	59	47	47	49	49
5	49	49	49	51	47	43	54	47	49	46
TOTAL	257	277	269	259	281	269	274	265	269	266
K-5	257	277	269	259	281	269	274	265	269	266



The average grade progression ratios for Miller Elementary, displayed in Table 50, are generally above 1.0 in all three models, suggesting that the projections will indicate growth.

TABLE 50
Grade Progression Ratios
Miller Elementary

YEAR CHANGES	B:K	K:1	1:2	2:3	3:4	4:5
08-09/09-10	0.175	2.050	1.050	0.868	1.178	0.980
09-10/10-11	0.076	1.326	0.976	1.119	1.152	0.925
10-11/11-12	0.082	1.895	0.951	1.125	1.043	0.962
11-12/12-13	0.160	1.900	1.111	1.155	1.089	0.959
12-13/13-14	0.150	1.050	1.053	1.125	0.881	0.878
13-14/14-15	0.147	1.000	1.190	1.100	1.044	0.915
14-15/15-16	0.154	1.051	1.025	0.960	1.068	1.000
15-16/16-17	0.150	1.073	1.122	1.000	1.021	1.043
16-17/17-18	0.173	1.025	0.955	0.935	1.195	0.939
Baseline	0.159	1.040	1.056	1.052	1.070	0.954
5 Year Trend	0.155	1.040	1.069	1.024	1.042	0.955
2 Year "Trend"	0.162	1.049	1.038	0.967	1.108	0.991

*Shaded progression ratios are excluded from the Baseline

NOTE: Births are not available specifically for the Miller attendance area. The B:K values represent the share of births in the district area that “feed into” the Miller kindergarten.



Baseline Projection

The Baseline model (Table 51) uses the grade progression ratios from the last ten years and the long-term birth trends to project future enrollment. This model predicts that K-5 enrollment at Miller will rise solidly through 2022/23—roughly 9%—and then level off.

TABLE 51
Baseline Projection Model
Miller Elementary

	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K										
K	43	43	41	43	44	43	43	44	44	44
1	47	45	44	43	45	45	45	45	45	45
2	43	49	47	47	45	47	48	47	48	48
3	44	46	52	50	49	47	50	50	50	50
4	46	47	49	56	53	53	51	53	54	53
5	47	44	45	46	53	51	50	48	51	51
TOTAL	270	274	278	285	289	286	287	287	292	291

5 Year Trend Projection

The Five Year Trend model (Table 52) uses the last five years’ grade progression ratios and recent trends in births to project what future enrollments would look like if more recent patterns were representative of future trends. This model projects that K-5 enrollment at Miller will gain modestly—about 5%—through 2022/23 and then remain steady through the balance of the projection period.

TABLE 52
5 Year Trend Projection Model
Miller Elementary

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K										
K	42	42	40	42	43	42	42	43	43	43
1	47	44	43	42	44	44	44	44	44	44
2	44	50	47	46	44	47	47	47	47	47
3	43	45	51	48	47	45	48	49	48	48
4	45	45	47	53	50	49	47	50	51	50
5	47	43	43	45	51	48	47	45	48	48
TOTAL	268	269	271	276	279	275	275	278	281	280



2 Year “Trend” Projection

The Two Year “Trend” model (Table 53) uses the last two years’ grade progression ratios to project what future enrollments would look like if even more recent patterns were representative of future trends. This model projects that K-5 enrollment at Miller will gain moderately through 2022/23—roughly 7%—then increase slightly.

TABLE 53
2 Year "Trend" Projection Model
Miller Elementary

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K										
K	44	44	42	44	45	44	44	44	45	45
1	47	46	46	44	46	47	46	46	47	47
2	43	49	48	47	45	48	49	48	48	48
3	41	41	47	46	46	44	46	47	46	47
4	48	45	46	53	51	51	49	51	52	51
5	49	47	45	45	52	51	50	48	51	52
TOTAL	272	272	274	279	285	285	284	284	289	290

Kindergarten Trend Projection

Table 54 shows the projected enrollment for the Kindergarten Trend model, using the mid-range trend in kindergartners at Miller, and then applying five-year grade progression ratios to project 1st through 5th grades. This model projects that K-5 enrollment at Miller will grow substantially through 2022/23—approximately 9%—and then continue to increase steadily.

TABLE 54
Kindergarten Trend Projection Model
Miller Elementary

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K										
K	42	43	44	44	45	46	47	47	48	49
1	47	44	44	45	46	47	48	48	49	50
2	44	50	47	48	48	49	50	51	52	53
3	43	45	51	48	49	50	50	51	52	53
4	45	45	47	53	50	51	52	53	53	54
5	47	43	43	45	51	48	48	49	50	51
TOTAL	268	270	276	283	289	291	295	299	304	310



Comparison of Projection Models—Miller

Enrollment projections for Miller Elementary are shown in Figure 26 and Table 55. The models project a range of 279 to 289 at 2022/23.

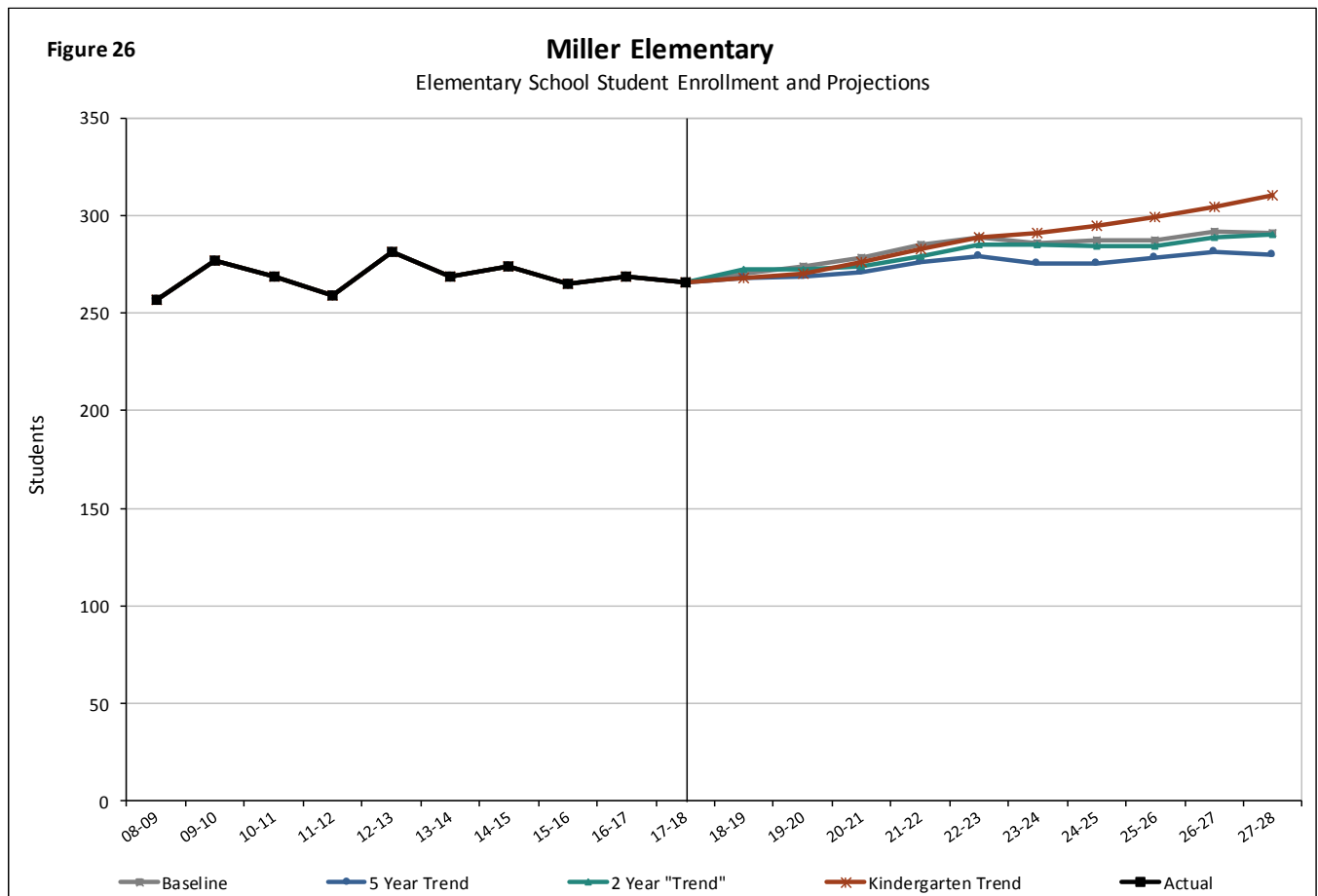


TABLE 55
Summary of Elementary School Enrollment Projections
Miller Elementary

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	270	274	278	285	289	286	287	287	292	291
5 Year Trend	268	269	271	276	279	275	275	278	281	280
2 Year "Trend"	272	272	274	279	285	285	284	284	289	290
Kindergarten Trend	268	270	276	283	289	291	295	299	304	310



Warrens Elementary

Figure 27 and Table 56 below illustrate the enrollment history of Warrens Elementary (grades 4K-5) for the past ten years. K-5 enrollment has been quite variable—from a minimum of 94 to a maximum of 119—averaging 109 annually.

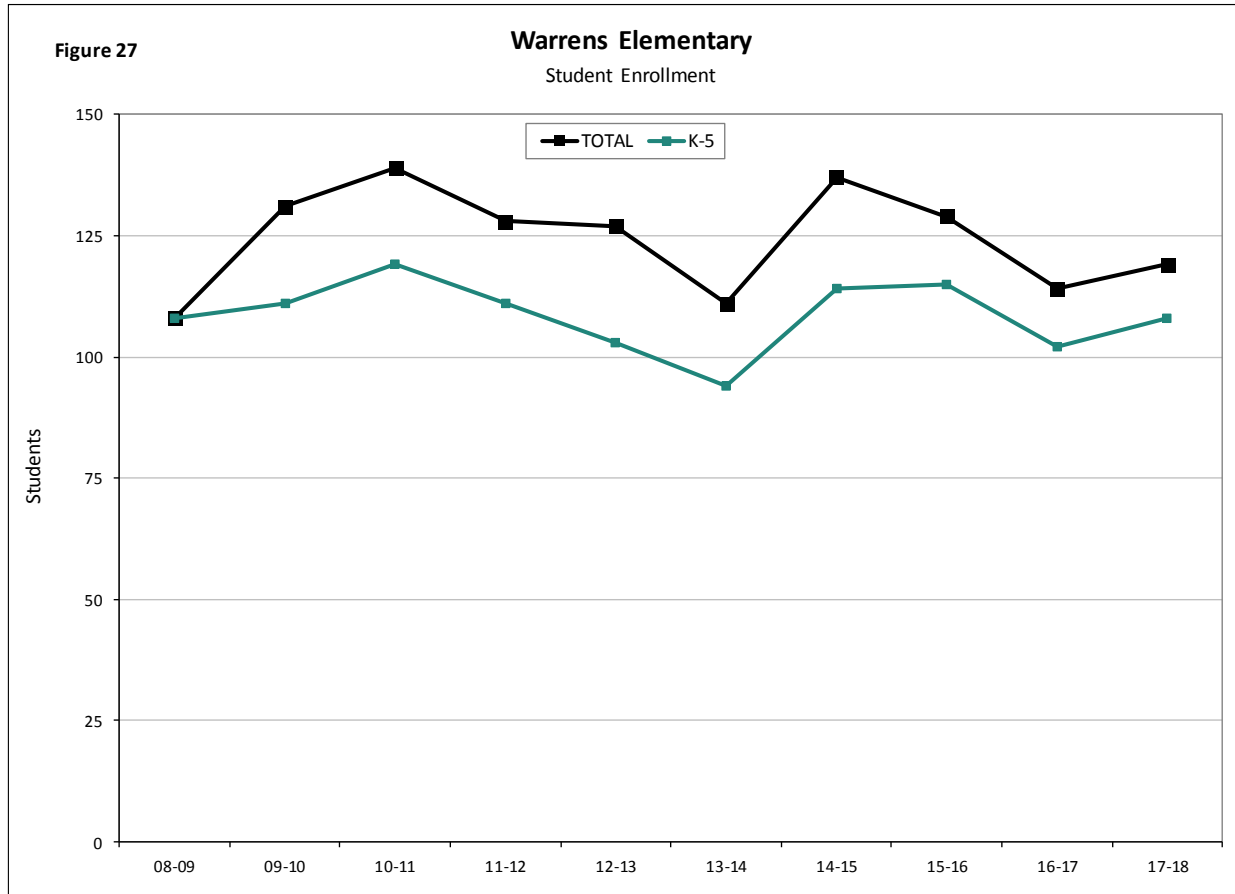


TABLE 56
Student Enrollment
Warrens Elementary

	SCHOOL YEAR									
	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
4K		20	20	17	24	17	23	14	12	11
K	15	14	21	18	18	22	19	16	13	16
1	22	16	17	19	15	15	24	18	15	14
2	19	22	16	18	19	16	16	23	17	18
3	19	20	23	16	17	17	19	19	22	18
4	18	21	23	18	14	14	19	20	17	24
5	15	18	19	22	20	10	17	19	18	18
TOTAL	108	131	139	128	127	111	137	129	114	119
K-5	108	111	119	111	103	94	114	115	102	108



The average grade progression ratios for Warrens Elementary, displayed in Table 57, are generally around 1.0 in all three models, suggesting that the projections will indicate fairly steady enrollment.

TABLE 57
Grade Progression Ratios
Warrens Elementary

YEAR CHANGES	B:K	K:1	1:2	2:3	3:4	4:5
08-09/09-10	0.053	1.067	1.000	1.053	1.105	1.000
09-10/10-11	0.085	1.214	1.000	1.045	1.150	0.905
10-11/11-12	0.073	0.905	1.059	1.000	0.783	0.957
11-12/12-13	0.072	0.833	1.000	0.944	0.875	1.111
12-13/13-14	0.083	0.833	1.067	0.895	0.824	0.714
13-14/14-15	0.072	1.091	1.067	1.188	1.118	1.214
14-15/15-16	0.060	0.947	0.958	1.188	1.053	1.000
15-16/16-17	0.049	0.938	0.944	0.957	0.895	0.900
16-17/17-18	0.062	1.077	1.200	1.059	1.091	1.059
Baseline	0.068	1.004	1.021	1.010	1.023	0.990
5 Year Trend	0.065	0.977	1.047	1.057	0.996	0.977
2 Year "Trend"	0.055	1.007	1.072	1.008	0.993	0.979

*Shaded progression ratios are excluded from the Baseline

NOTE: Births are not available specifically for the Warrens attendance area. The B:K values represent the share of births in the district area that "feed into" the Warrens kindergarten.



Baseline Projection

The Baseline model (Table 58) uses the grade progression ratios from the last ten years and the long-term birth trends to project future enrollment. This model predicts that 4K-5 enrollment at Warrens will rise slightly through 2022/23—by nine students—and then increase slightly more.

TABLE 58
Baseline Projection Model
Warrens Elementary

	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	16	15	16	16	16	16	16	16	16	16
K	18	18	17	18	19	18	19	19	19	19
1	16	19	18	18	19	19	19	19	19	19
2	14	16	19	19	18	19	19	19	19	19
3	18	14	17	19	19	18	19	19	19	19
4	18	19	15	17	20	19	18	20	20	20
5	24	18	18	15	17	19	19	18	19	20
TOTAL	124	119	120	122	128	128	129	130	131	132

5 Year Trend Projection

The Five Year Trend model (Table 59) uses the last five years’ grade progression ratios and recent trends in births to project what future enrollments would look like if more recent patterns were representative of future trends. This model projects that 4K-5 enrollment at Warrens will increase marginally through 2022/23 as well as through the balance of the projection period.

TABLE 59
5 Year Trend Projection Model
Warrens Elementary

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	16	15	16	16	16	16	16	16	16	16
K	18	17	17	18	18	18	18	18	18	18
1	16	17	17	16	17	17	17	17	17	18
2	15	16	18	18	17	18	18	18	18	18
3	19	15	17	19	19	18	19	19	19	19
4	18	19	15	17	19	19	18	19	19	19
5	23	18	19	15	17	19	18	18	19	19
TOTAL	125	117	119	119	123	125	124	125	126	127



2 Year “Trend” Projection

The Two Year “Trend” model (Table 60) uses the last two years’ grade progression ratios to project what future enrollments would look like if even more recent patterns were representative of future trends. This model projects that 4K-5 enrollment at Warrens will decline moderately through 2022/23—9 students—then remain level.

TABLE 60
2 Year "Trend" Projection Model
Warrens Elementary

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	16	15	16	16	16	16	16	16	16	16
K	15	15	14	15	15	15	15	15	15	15
1	16	15	15	14	15	15	15	15	15	15
2	15	17	16	16	15	16	16	16	16	16
3	18	15	17	16	16	16	16	17	16	16
4	18	18	15	17	16	16	15	16	16	16
5	24	18	18	15	17	16	16	15	16	16
TOTAL	122	113	111	109	110	110	109	110	110	110

Kindergarten Trend Projection

Table 61 shows the projected enrollment for the Kindergarten Trend model, using the long-term trend in kindergartners at Warrens, and then applying five-year grade progression ratios to project 1st through 5th grades. This model projects that 4K-5 enrollment at Warrens will vary close to the current enrollment of 119 through 2022/23 and the remainder of the projection period.

TABLE 61
Kindergarten Trend Projection Model
Warrens Elementary

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K	16	15	16	16	16	16	16	16	16	16
K	17	17	17	16	16	16	16	16	16	16
1	16	16	16	16	16	16	16	16	16	16
2	15	16	17	17	17	17	17	17	17	16
3	19	15	17	18	18	18	18	18	18	18
4	18	19	15	17	18	18	18	18	18	18
5	23	18	19	15	17	18	18	17	17	17
TOTAL	124	116	117	115	118	119	119	118	118	117



Comparison of Projection Models—Warrens

Enrollment projections for Warrens Elementary are shown in Figure 28 and Table 62. The models project a range of 110 to 128 at 2022/23.

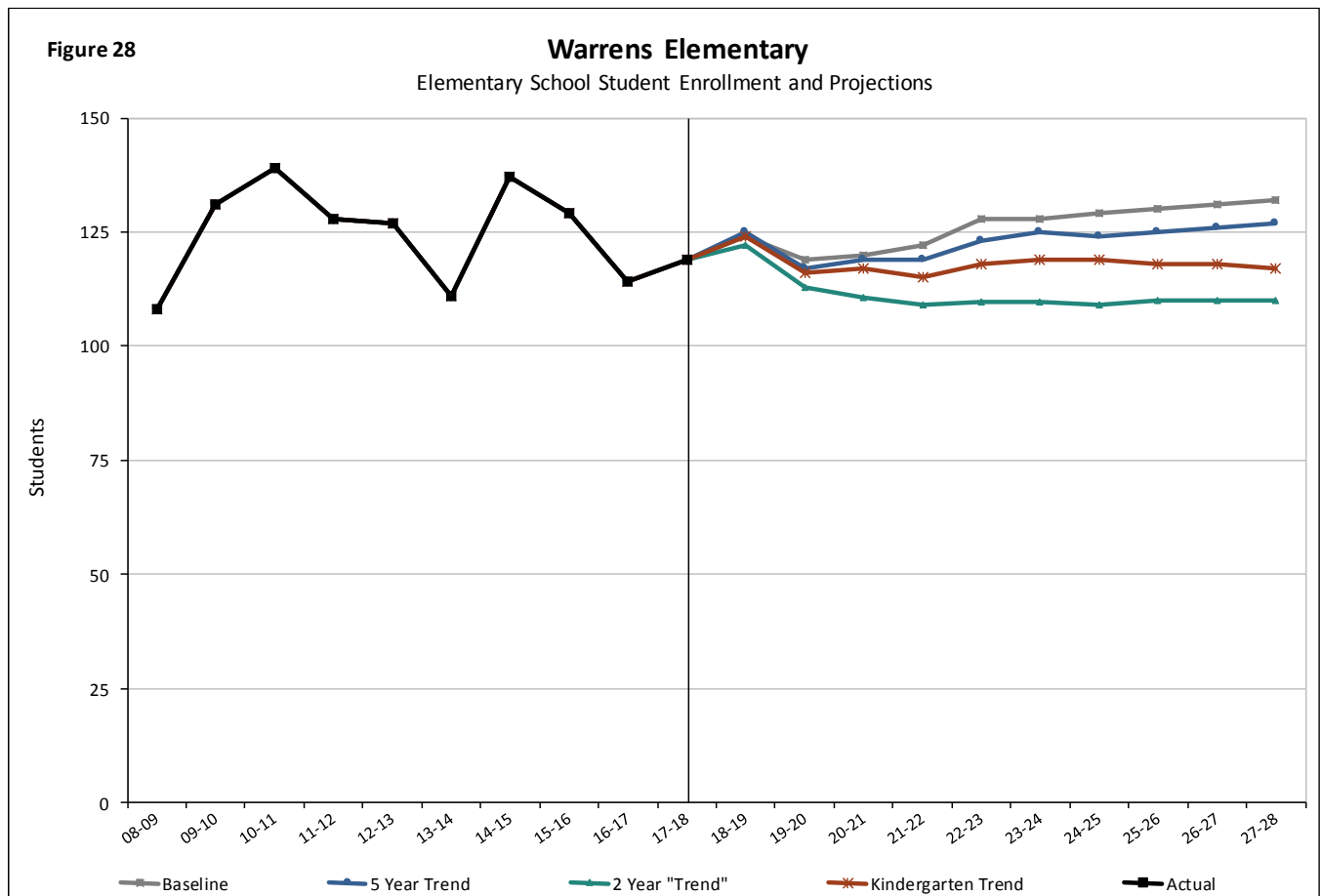


TABLE 62
Summary of Elementary School Enrollment Projections
Warrens Elementary

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	124	119	120	122	128	128	129	130	131	132
5 Year Trend	125	117	119	119	123	125	124	125	126	127
2 Year "Trend"	122	113	111	109	110	110	109	110	110	110
Kindergarten Trend	124	116	117	115	118	119	119	118	118	117



Wyeville Elementary

Figure 29 and Table 63 below illustrate the enrollment history of Wyeville Elementary (grades K-5) for the past ten years. K-5 enrollment has been variable—from a minimum of 100 to a maximum of 127, in the current school year—averaging 112 annually.

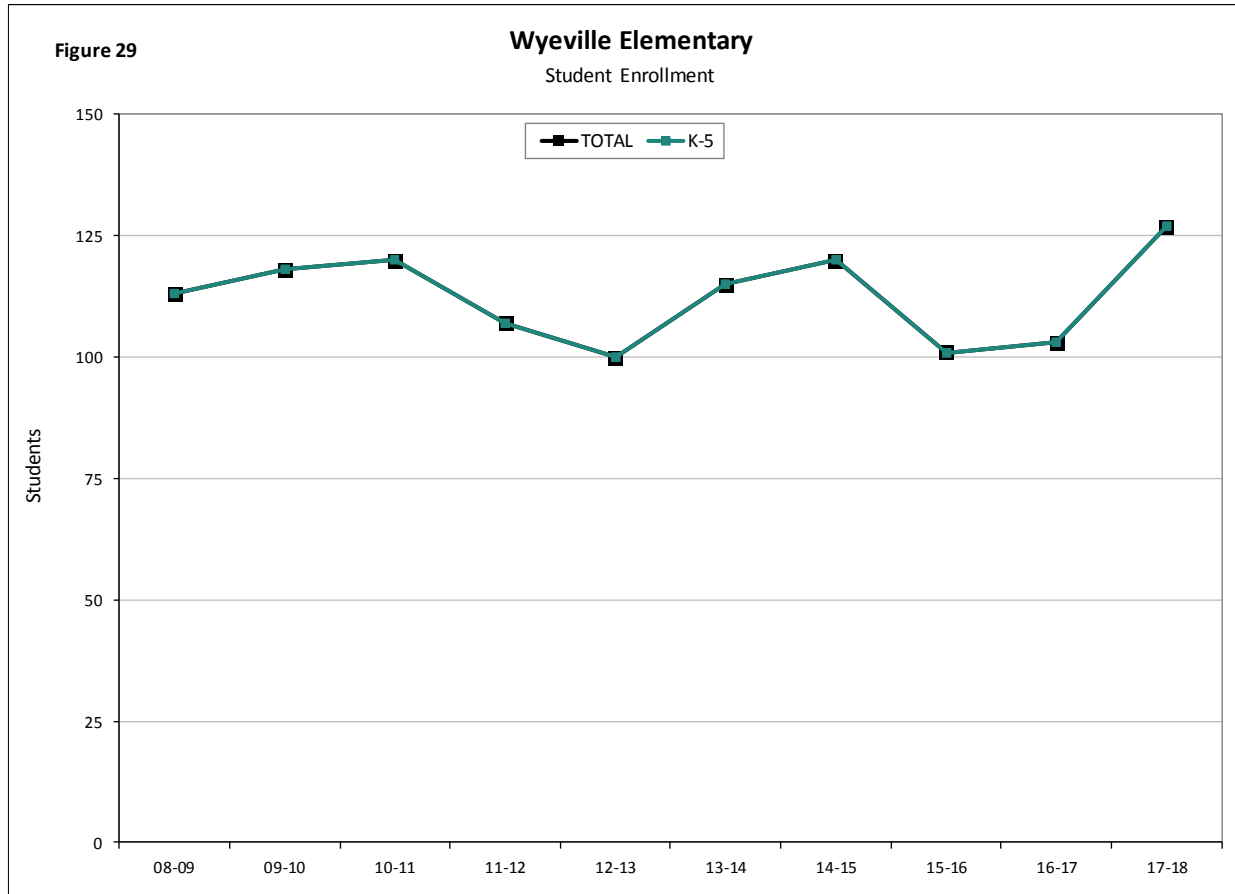


TABLE 63
Student Enrollment
Wyeville Elementary

	SCHOOL YEAR									
	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
4K										
K	19	20	16	20	17	16	21	13	15	22
1	14	15	20	14	20	20	14	20	12	21
2	19	21	19	22	13	23	21	13	19	17
3	24	19	17	18	19	17	24	15	15	24
4	18	26	21	15	17	22	16	24	16	20
5	19	17	27	18	14	17	24	16	26	23
TOTAL	113	118	120	107	100	115	120	101	103	127
K-5	113	118	120	107	100	115	120	101	103	127



The average grade progression ratios for Wyeville Elementary, displayed in Table 64, are above 1.0 in the 5 Year Trend and 2 Year Trend models for grades 1 through 5, suggesting that these models' projections will indicate increasing enrollment.

TABLE 64
Grade Progression Ratios
Wyeville Elementary

YEAR CHANGES	B:K	K:1	1:2	2:3	3:4	4:5
08-09/09-10	0.076	0.789	1.500	1.000	1.083	0.944
09-10/10-11	0.064	1.000	1.267	0.810	1.105	1.038
10-11/11-12	0.082	0.875	1.100	0.947	0.882	0.857
11-12/12-13	0.068	1.000	0.929	0.864	0.944	0.933
12-13/13-14	0.060	1.176	1.150	1.308	1.158	1.000
13-14/14-15	0.079	0.875	1.050	1.043	0.941	1.091
14-15/15-16	0.049	0.952	0.929	0.714	1.000	1.000
15-16/16-17	0.056	0.923	0.950	1.154	1.067	1.083
16-17/17-18	0.085	1.400	1.417	1.263	1.333	1.438
Baseline	0.070	0.972	1.103	0.970	1.043	1.013
5 Year Trend	0.066	1.065	1.099	1.096	1.100	1.122
2 Year "Trend"	0.071	1.162	1.183	1.209	1.200	1.260

*Shaded progression ratios are excluded from the Baseline

NOTE: Births are not available specifically for the Wyeville attendance area. The B:K values represent the share of births in the district area that "feed into" the Wyeville kindergarten.



Baseline Projection

The Baseline model (Table 65) uses the grade progression ratios from the last ten years and the long-term birth trends to project future enrollment. This model predicts that K-5 enrollment at Wyeville will slip slightly through 2022/23—by seven students—and then remain stable.

TABLE 65
Baseline Projection Model
Wyeville Elementary

	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K										
K	19	19	18	19	19	19	19	19	19	19
1	21	18	18	17	18	19	18	18	19	19
2	23	24	20	20	19	20	21	20	20	20
3	16	22	23	20	19	19	20	20	20	20
4	25	17	23	24	21	20	19	21	21	21
5	20	25	17	24	24	21	21	20	21	21
TOTAL	124	125	119	124	120	118	118	118	120	120

5 Year Trend Projection

The Five Year Trend model (Table 66) uses the last five years’ grade progression ratios and recent trends in births to project what future enrollments would look like if more recent patterns were representative of future trends. This model projects that K-5 enrollment at Wyeville will increase by 13 students through 2022/23 and then decline slightly through the balance of the projection period.

TABLE 66
5 Year Trend Projection Model
Wyeville Elementary

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K										
K	18	18	17	18	18	18	18	18	18	18
1	23	19	19	18	19	19	19	19	19	19
2	23	26	21	21	20	21	21	21	21	21
3	19	25	28	23	23	22	23	23	23	23
4	26	21	28	31	25	25	24	25	26	25
5	22	30	23	31	35	28	28	27	28	29
TOTAL	131	139	136	142	140	133	133	133	135	135



2 Year “Trend” Projection

The Two Year “Trend” model (Table 67) uses the last two years’ grade progression ratios to project what future enrollments would look like if even more recent patterns were representative of future trends. The very high grade progression ratios of 2017/18 lead this model to project that K-5 enrollment at Wyeville will increase substantially through 2022/23—64 students or 50%. This forecast should be viewed with caution; the other three models are more probable outcomes.

TABLE 67
2 Year "Trend" Projection Model
Wyeville Elementary

GRADE	SCHOOL YEAR									
	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K										
K	19	19	18	19	19	19	19	19	19	20
1	26	22	22	21	22	23	22	22	23	23
2	25	30	26	26	25	26	27	26	27	27
3	21	30	37	32	32	30	32	32	32	32
4	29	25	36	44	38	38	36	38	39	38
5	25	36	31	45	55	48	48	46	48	49
TOTAL	145	162	170	187	191	184	184	183	188	189

Kindergarten Trend Projection

Table 68 shows the projected enrollment for the Kindergarten Trend model, using the mid-range trend in kindergartners at Wyeville, and then applying five-year grade progression ratios to project 1st through 5th grades. This model projects that K-5 enrollment at Wyeville will increase moderately through 2022/23 and then remain level beyond that.

TABLE 68
Kindergarten Trend Projection Model
Wyeville Elementary

GRADE	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
4K										
K	18	18	18	19	19	19	19	20	20	20
1	23	19	19	20	20	20	20	21	21	21
2	23	26	21	21	22	22	22	22	23	23
3	19	25	28	23	23	24	24	24	25	25
4	26	21	28	31	25	26	26	26	27	27
5	22	30	23	31	35	28	29	29	30	30
TOTAL	131	139	137	145	144	139	140	142	146	146



Comparison of Projection Models—Wyeville

Enrollment projections for Wyeville Elementary are shown in Figure 30 and Table 69. The models project a range of 120 to 191 at 2022/23, although it is likely that the 2 Year Trend is overstating potential growth. A range of 120 to 144 is more probable.

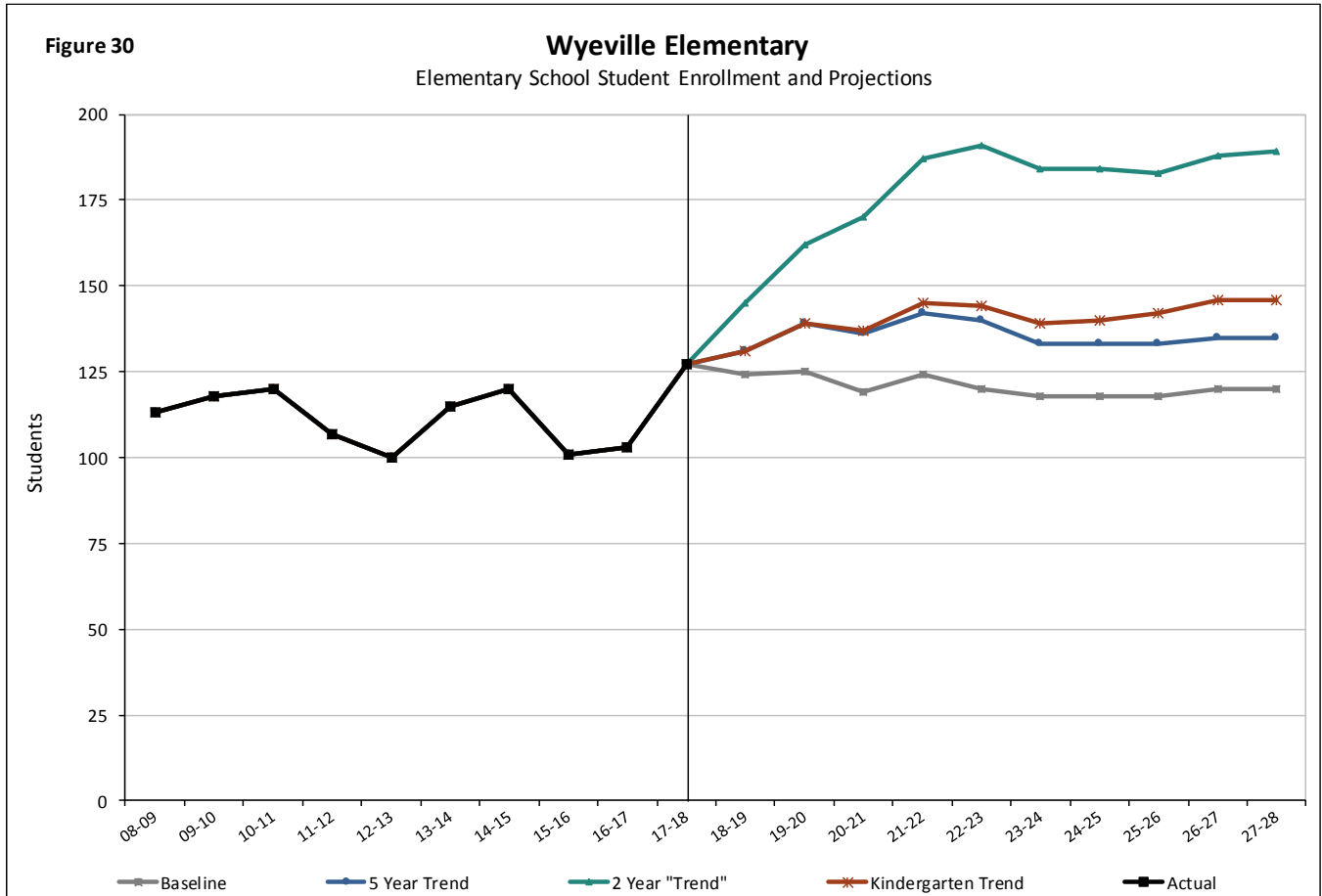


TABLE 69
Summary of Elementary School Enrollment Projections
Wyeville Elementary

	18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Baseline	124	125	119	124	120	118	118	118	120	120
5 Year Trend	131	139	136	142	140	133	133	133	135	135
2 Year "Trend"	145	162	170	187	191	184	184	183	188	189
Kindergarten Trend	131	139	137	145	144	139	140	142	146	146



Conclusions

These district-level and elementary 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-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, these enrollment projections point to these conclusions:

- The change in Tomah Area's in-district students will be minimal over the next five years, with a predicted increase of 0% to 6% (0 to 180 students). Growth beyond 2022/23 may pick up slightly as the number of births in the area is increasing currently.
- Similarly, the change in the FTE count of students is projected to be minimal as well, increasing 1% to 6% (18 to 164 students) through 2022/23.
- The relatively large increases in students in the past two school years—both in-district and FTE—leads to the Two Year Trend producing the highest projected future enrollments, across elementary, middle and high school levels.
- Projections for the elementary schools are varied: those most likely to remain within the low and high span of their enrollments of the past 10 years are Oakdale/Camp Douglas, Lemonweir and Warrens; LaGrange, Miller and Wyeville are projected to gain students beyond their recent enrollment patterns.

The district should continue to monitor its enrollment change. If growth in the next two years is closer to the district's experience of the last two years, then the higher projections predicted by the Two Year Trend may be the most applicable of the four models. Otherwise, growth may be relatively modest in future years.

