

# JEFFERSON CITY SCHOOL DISTRICT

UPDATED ENROLLMENT AND  
DEMOGRAPHICS  
STUDY  
WITH 2010 CENSUS DATA

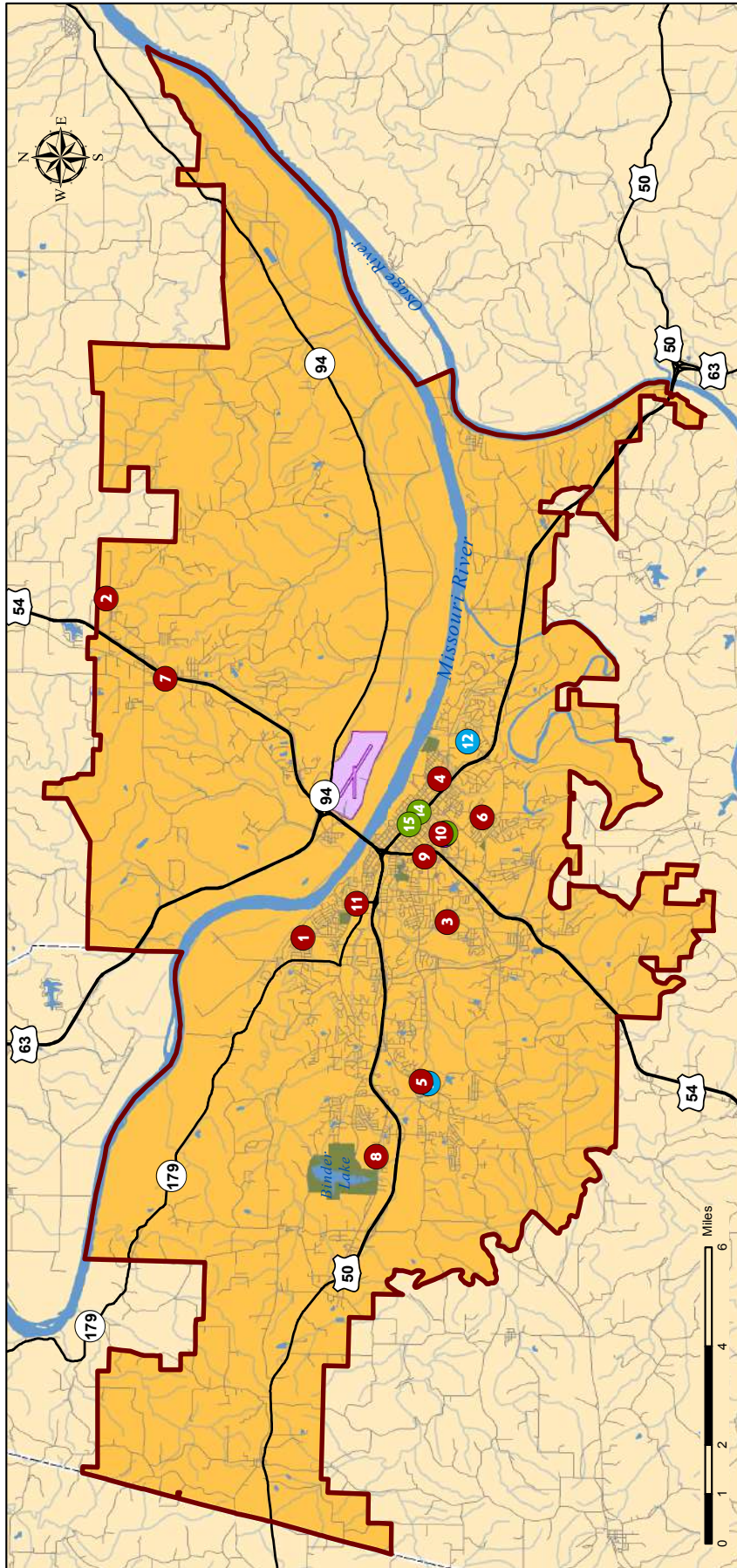
© **BUSINESS INFORMATION SERVICES, LLC**

*A High-Tech Business Doing Business the Old-Fashioned Way*



**October 2011**

# Jefferson City School District



- |                               |                               |                               |  |
|-------------------------------|-------------------------------|-------------------------------|--|
| <b>1</b> Belair Elem.         | <b>5</b> Lawson Elem.         | <b>9</b> South Elem.          | <b>12</b> Lewis and Clark Middle       |
| <b>2</b> Callaway Hills Elem. | <b>6</b> Moreau Heights Elem. | <b>10</b> Thorpe Gordon Elem. | <b>13</b> Thomas Jefferson Middle      |
| <b>3</b> Cedar Hill Elem.     | <b>7</b> North Elem.          | <b>11</b> West Elem.          | <b>14</b> Simonsen 9th Grade Ctr.      |
| <b>4</b> East Elem.           | <b>8</b> Pioneer Trail Elem.  |                               | <b>15</b> Jefferson City Academic Ctr. |
|                               |                               |                               | <b>16</b> Jefferson City High          |
|                               |                               |                               | <b>17</b> Nichols Career Ctr.          |
- 
- |          |        |          |                 |
|----------|--------|----------|-----------------|
| Streets  | Rivers | Parks    | School District |
| Highways | Water  | Airports | MoCounties      |

<b><i>Table of Contents</i></b>	
Executive Summary	<b>4</b>
Key Findings	<b>5</b>
Reasons for the Study	<b>7</b>
Building Analysis	<b>8</b>
District Census Data	<b>12</b>
Enrollment Projections	<b>36</b>

## Executive Summary

**T**he Jefferson City School District realized a small enrollment increase in 2011-12—88 students. Even though enrollment has increased gradually since 2004, we do not believe the demographics in the area support a long-term or large enrollment growth trend, especially given the erratic enrollment patterns in the district for the last 25 years.

That said, we do not have an explanation for the enrollment growth during the last few school years, based on data given by the school district and obtained through many other sources. Under the most plausible enrollment model, we believe that during the next 10 years, the district enrollment could increase to as much as 9,919 students by 2021.

The big unknown factor in the Jefferson City School District is whether enrollment will continue strong in the parochial schools. If it does, then there is little reason to believe that the public school district enrollment will grow substantially. If the economy continues to weaken, and parochial tuitions become harder for families to afford, then the public schools could see an influx. But to this point, the parochial enrollments continue as strong as they have during the last 20 years.

Business Information Services, LLC has no financial interest in the Jefferson City School District. Special thanks go to Superintendent Dr. Brian Mitchell and the district's data processing staff who provided data upon request. Neither the school administration nor school board has attempted to influence the findings of this study in any way.

A draft was delivered to the district via email on September 26, 2011.



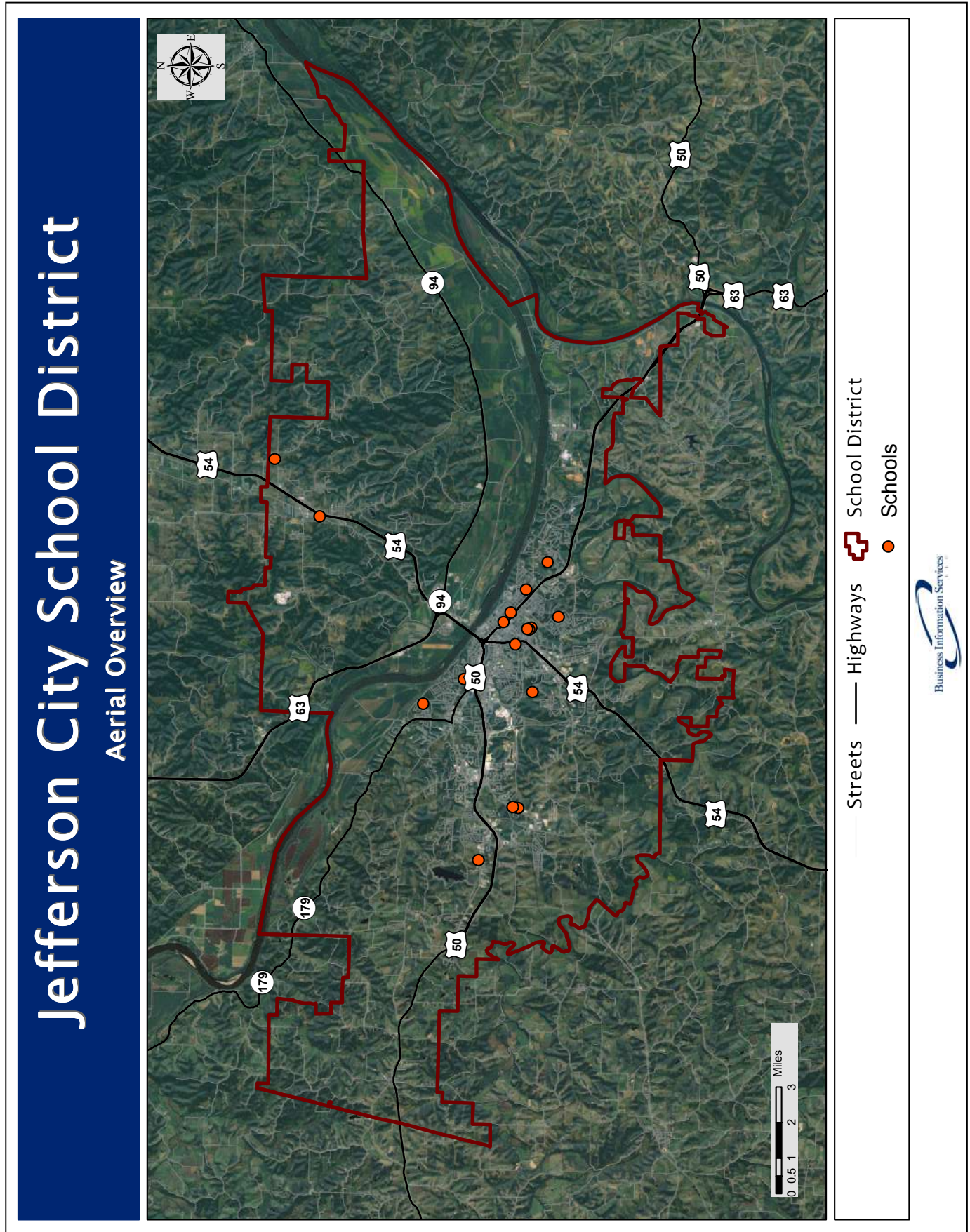
Preston Smith  
Principal Owner  
Business Information Services, LLC

## Key Findings

- Under three different statistical projections, the Jefferson City School District would have a total enrollment by 2021 of 8,931, about 300 more students than today's enrollment or as high as 9,919. While the models that show increased enrollment are statistically accurate, we have many concerns about recommending a high-end model of sustained enrollment growth. There are simply too many factors that point to flat or decreased enrollment in the district, such as the large decrease in the number of childbearing-age couples (p. 15) during the last decade, lower employment in the area (p. 21) and an extremely low percentage of school-age children attending the district's schools (p. 22). Most of the 2010 Census data points to age cohorts similar to those of the 2000 Census; throughout most of the 2000s, enrollment in the district's schools decreased. For those reasons and more, we are therefore emphasizing that we think the more reasonable enrollment scenarios would be the low- and medium-range (see p. 56-57).
- There are many puzzling facts in the data concerning the district. Between 2000 and 2010, the Jefferson City School District added 4,142 persons. The enrollment in the district schools in 1999-2000 was 8,395 and was 8,438 in 2009-10, a net change of only 38 students. That means that for every 109 people who moved to the school district during the 2000s, only one student was added to the enrollment. In 2009, only 66 new houses were built in the district. Between January 2008 and January 2010, 2,400 jobs left the Jefferson City area, yet enrollment in the district's schools increased. Even when more than a thousand new homes were built between 2003 and 2006, and employment remained stable—which should be a perfect formula for enrollment growth—the district realized only a net increase of 25 students.



Figure 1. Aerial view of the Jefferson City School District.



## Reasons for the Study

The Jefferson City School District, at the center of the state and hosting the center of the state's government, has a diverse and highly changeable population. In February 2010, district administrators asked our firm to perform this analysis with an in-depth demographic study of the district's residents and student population. This study is a follow-up to that study, and includes updated enrollment data and the new 2010 Census data, released in August 2011.

In our 2010 study, we saw signs of overcrowding, especially in the Simonsen 9th Grade Center and Jefferson City High School. A national standard calculation shows that the Jefferson City High School has about 114 sq. ft. available per student and that a national standard of 160 sq. ft. per student should be available. Even though overall enrollment for 2011-12 is down almost a hundred students from a year earlier, we still see overcrowding at the Simonsen 9th Grade Center and the high school, along with preliminary overcrowding at the elementaries of East, Lawson, Moreau Heights and West.

Throughout the rest of this updated study, we look at how the present buildings can support the present enrollment and where the enrollment will be during the next decade. We also look at some of the factors that influence enrollment in the district.

**Figure 2. Current building enrollment and room capacity levels for the Jefferson City School District.**

School	Grades	2011-12 Enrollment	2011-12 Square Footage per Building	Gross Square Footage per Student	Square Footage Per Student Standard	Variance	Square Footage Advantage/Disadvantage
Belair Elem	K-5	429	47,530	111	110	1	0.72%
Callaway Hills Elem	K-5	273	43,357	159	110	49	44.38%
Cedar Hill Elem	K-5	390	46,583	119	110	9	8.59%
East Elem	K-5	348	35,151	101	110	-9	-8.17%
Lawson Elem	K-5	452	44,226	98	110	-12	-11.05%
Moreau Heights Elem	K-5	399	41,374	104	110	-6	-5.73%
North Elem	K-5	395	40,866	103	110	-7	-5.95%
Pioneer Trail Elementary	K-5	523	65,000	124	110	14	12.98%
South Elem	K-5	244	44,104	181	110	71	64.32%
Thorpe Gordon Elem	K-5	315	40,598	129	110	19	17.17%
West Elem	K-5	384	40,784	106	110	-4	-3.45%
Lewis & Clark Middle School	6-8	899	140,000	156	130	26	19.79%
Thomas Jefferson Middle School	6-8	929	140,000	151	130	21	15.92%
Simonsen 9th Grade Center	9	687	80,020	116	160	-44	-27.20%
Jefferson City High School	9-12	1,936	216,000	112	160	-48	-30.27%
<b>15</b>		<b>8,603</b>	<b>974,706</b>				

# Jefferson City School District

**Figure 3. Elementary building enrollments and capacity levels for 2011-12.**

School	Grades	2011-12 Enrollment	2011-12 Square Footage per Building	Gross Square Footage per Student	Square Footage Per Student Standard	Variance	Square Footage Advantage/ Disadvantage
Belair Elem	K-5	429	47,530	111	110	1	0.72%
Callaway Hills Elem	K-5	273	43,357	159	110	49	44.38%
Cedar Hill Elem	K-5	390	46,583	119	110	9	8.59%
East Elem	K-5	348	35,151	101	110	-9	-8.17%
Lawson Elem	K-5	452	44,226	98	110	-12	-11.05%
Moreau Heights Elem	K-5	399	41,374	104	110	-6	-5.73%
North Elem	K-5	395	40,866	103	110	-7	-5.95%
Pioneer Trail Elementary	K-5	523	65,000	124	110	14	12.98%
South Elem	K-5	244	44,104	181	110	71	64.32%
Thorpe Gordon Elem	K-5	315	40,598	129	110	19	17.17%
West Elem	K-5	384	40,784	106	110	-4	-3.45%
<b>11</b>		<b>4,152</b>	<b>489,573</b>	<b>118</b>	<b>110</b>	<b>8</b>	<b>7.19%</b>

**Figure 4. Middle school building enrollments and capacity levels for 2011-12.**

School	Grades	2011-12 Enrollment	2011-12 Square Footage per Building	Gross Square Footage per Student	Square Footage Per Student Standard	Variance	Square Footage Advantage/ Disadvantage
Lewis & Clark Middle School	6-8	899	140,000	156	130	26	19.79%
Thomas Jefferson Middle School	6-8	929	140,000	151	130	21	15.92%
<b>2</b>		<b>1,828</b>	<b>280,000</b>	<b>153</b>	<b>130</b>	<b>23</b>	<b>17.83%</b>

**Figure 5. High school building enrollments and capacity levels for 2011-12.**

School	Grades	2011-12 Enrollment	2011-12 Square Footage per Building	Gross Square Footage per Student	Square Footage Per Student Standard	Variance	Square Footage Advantage/ Disadvantage
Simonsen 9th Grade Center	9	687	80,020	116	160	-44	-27.20%
Jefferson City High School	9-12	1,936	216,000	112	160	-48	-30.27%
<b>2</b>		<b>2,623</b>	<b>296,020</b>	<b>113</b>	<b>160</b>	<b>-47</b>	<b>-29.47%</b>



In Figures 3, 4 and 5, we separate the building data by elementary, middle school and high school, to determine the sum-total of enrollment versus total square footage in the system. In Figure 3, we show that even the overall capacity of the elementary schools with redrawing attendance boundary lines, the entire elementary building capacity is 7.19 percent above the square footage standard. So while there are five elementary schools that are showing over-capacity, altering the attendance lines should fix this problem.

The middle schools are showing that 130 sq. ft. are needed for each student and a total of 153 sq. ft. is available, giving an excess capacity of 17.8 percent. No problems here.

But the Simonsen 9th grade center and the high school are severely overcrowded. With a standard of 160 sq. ft. per student needed, only 113 is available among those two campuses, a shortfall of 29 percent.

In Figure 6, we try to take advantage of some of the excess capacity in the middle schools by shifting the 9th grade, split evenly, into the two middle schools, and then move the 10th grade into the Simonsen Center. While this did ease the overcrowding in the high school, this didn't help in the Simonsen Center and just made the middle schools more crowded. So this isn't an option.

**Figure 6. Current building enrollment and room capacity levels, shifting the 9th grade into the middle schools and the 10th grade into the Simonsen center.**

School	Grades	2011-12 Enrollment	2011-12 Square Footage per Building	Gross Square Footage per Student	Square Footage Per Student Standard	Variance	Square Footage Advantage/ Disadvantage
Belair Elem	K-5	429	47,530	111	110	1	0.72%
Callaway Hills Elem	K-5	273	43,357	159	110	49	44.38%
Cedar Hill Elem	K-5	390	46,583	119	110	9	8.59%
East Elem	K-5	348	35,151	101	110	-9	-8.17%
Lawson Elem	K-5	452	44,226	98	110	-12	-11.05%
Moreau Heights Elem	K-5	399	41,374	104	110	-6	-5.73%
North Elem	K-5	395	40,866	103	110	-7	-5.95%
Pioneer Trail Elementary	K-5	523	65,000	124	110	14	12.98%
South Elem	K-5	244	44,104	181	110	71	64.32%
Thorpe Gordon Elem	K-5	315	40,598	129	100	29	28.88%
West Elem	K-5	384	40,784	106	100	6	6.21%
Lewis & Clark Middle School	6-9	1,243	140,000	113	130	-17	-13.33%
Thomas Jefferson Middle School	6-9	1,272	140,000	110	130	-20	-15.34%
Simonsen 10th Grade Center	10	730	80,020	110	160	-50	-31.49%
Jefferson City High School	11-12	1,206	216,000	179	160	19	11.94%
<b>15</b>		<b>8,603</b>	<b>974,706</b>				

# Jefferson City School District

Figure 7. Aerial view of the Jefferson City School District.

School	Grades	2013-14 Projected Enrollment	2011-12 Square Footage per Building	Gross Square Footage per Student	Square Footage Per Student Standard	Variance	Square Footage Advantage/ Disadvantage
Belair Elem	K-5	427	47,530	111	110	1	1.19%
Callaway Hills Elem	K-5	323	43,357	134	110	24	22.03%
Cedar Hill Elem	K-5	381	46,583	122	110	12	11.15%
East Elem	K-5	372	35,151	94	110	-16	-14.10%
Lawson Elem	K-5	474	44,226	93	110	-17	-15.18%
Moreau Heights Elem	K-5	392	41,374	106	110	-4	-4.05%
North Elem	K-5	374	40,866	109	110	-1	-0.67%
Pioneer Trail Elementary	K-5	565	65,000	115	110	5	4.59%
South Elem	K-5	296	44,104	149	110	39	35.45%
Thorpe Gordon Elem	K-5	333	40,598	122	110	12	10.83%
West Elem	K-5	396	40,784	103	110	-7	-6.37%
Lewis & Clark Middle School	6-8	954	140,000	147	130	17	12.89%
Thomas Jefferson Middle School	6-8	956	140,000	146	130	16	12.65%
Simonsen 9th Grade Center	9	658	80,020	122	160	-38	-23.99%
Jefferson City High School	9-12	1,987	216,000	109	160	-51	-32.06%
<b>15</b>		<b>8,888</b>	<b>974,706</b>				

Figure 8. Aerial view of the Jefferson City School District.

School	Grades	2015-16 Enrollment	2011-12 Square Footage per Building	Gross Square Footage per Student	Square Footage Per Student Standard	Variance	Square Footage Advantage/ Disadvantage
Belair Elem	K-5	415	47,530	115	110	5	4.12%
Callaway Hills Elem	K-5	363	43,357	119	110	9	8.58%
Cedar Hill Elem	K-5	373	46,583	125	110	15	13.53%
East Elem	K-5	380	35,151	93	110	-17	-15.91%
Lawson Elem	K-5	484	44,226	91	110	-19	-16.93%
Moreau Heights Elem	K-5	387	41,374	107	110	-3	-2.81%
North Elem	K-5	361	40,866	113	110	3	2.91%
Pioneer Trail Elementary	K-5	593	65,000	110	110	0	-0.35%
South Elem	K-5	328	44,104	134	110	24	22.24%
Thorpe Gordon Elem	K-5	347	40,598	117	110	7	6.36%
West Elem	K-5	389	40,784	105	110	-5	-4.69%
Lewis & Clark Middle School	6-8	1,018	140,000	138	130	8	5.79%
Thomas Jefferson Middle School	6-8	1,070	140,000	131	130	1	0.65%
Simonsen 9th Grade Center	9	696	80,020	115	160	-45	-28.14%
Jefferson City High School	9-12	1,944	216,000	111	160	-49	-30.57%
<b>15</b>		<b>9,148</b>	<b>974,706</b>				

Figure 9. Aerial view of the Jefferson City School District.

School	Grades	2021-22 Enrollment	2011-12 Square Footage per Building	Gross Square Footage per Student	Square Footage Per Student Standard	Variance	Square Footage Advantage/ Disadvantage
Belair Elem	K-5	411	47,530	116	110	6	5.13%
Callaway Hills Elem	K-5	392	43,357	111	110	1	0.55%
Cedar Hill Elem	K-5	380	46,583	123	110	13	11.44%
East Elem	K-5	392	35,151	90	110	-20	-18.48%
Lawson Elem	K-5	487	44,226	91	110	-19	-17.44%
Moreau Heights Elem	K-5	399	41,374	104	110	-6	-5.73%
North Elem	K-5	348	40,866	117	110	7	6.76%
Pioneer Trail Elementary	K-5	601	65,000	108	110	-2	-1.68%
South Elem	K-5	335	44,104	132	110	22	19.69%
Thorpe Gordon Elem	K-5	354	40,598	115	110	5	4.26%
West Elem	K-5	380	40,784	107	110	-3	-2.43%
Lewis & Clark Middle School	6-8	1,031	140,000	136	130	6	4.45%
Thomas Jefferson Middle School	6-8	1,155	140,000	121	130	-9	-6.76%
Simonsen 9th Grade Center	9	839	80,020	95	160	-65	-40.37%
Jefferson City High School	9-12	2,415	216,000	89	160	-71	-44.10%
<b>15</b>		<b>9,919</b>	<b>974,706</b>				

If we take the 10-year enrollment projections with the building capacities, and take multiple-year snapshots, one can get an idea of how the present buildings will not support the enrollment. The tables on p. 10 show enrollments for 2013-14, 2015-16, and 2021-22 using the high-end projection model.

Figure 10, below, shows that 256,715 sq. ft. of additional building space will be needed by the 2021-22 school year to adequately support the district's enrollment. A column has been added to the table to show how many additional square feet have been added to bring each building up to a reasonable sq. footage per student, without altering boundary lines. Clearly, most of the square footage requirements in the elementary schools can be taken care of through redistricting, but not all of it. Between the 9th grade center and the high school, we estimate that 224,610 sq. ft. would be needed, which is about 58 percent the total square footage in the present high school. This would not be the break point of recommending an entirely new high school, but we question whether only additional temporary classrooms could fill the deficit.

**Figure 10. Current building enrollment and room capacity levels, shifting the 9th grade into the middle schools and the 10th grade into the Simonsen center.**

School	Grades	2021-22 Enrollment	2011-12 Square Footage per Building	Gross Square Footage per Student	Square Footage Per Student Standard	Variance	Sq Footage Added	Square Footage Advantage/ Disadvantage
Belair Elem	K-5	411	47,530	116	110	6	0	5.13%
Callaway Hills Elem	K-5	392	43,357	111	110	1	0	0.55%
Cedar Hill Elem	K-5	380	46,583	123	110	13	0	11.44%
East Elem	K-5	392	43,121	110	110	0	7,970	0.00%
Lawson Elem	K-5	487	53,571	110	110	0	9,345	0.00%
Moreau Heights Elem	K-5	399	43,889	110	110	0	2,515	0.00%
North Elem	K-5	348	40,866	117	110	7	0	6.76%
Pioneer Trail Elementary	K-5	601	66,110	110	110	0	1,110	0.00%
South Elem	K-5	335	44,104	132	110	22	0	19.69%
Thorpe Gordon Elem	K-5	354	40,598	115	110	5	0	4.26%
West Elem	K-5	380	41,799	110	110	0	1,015	0.00%
Lewis & Clark Middle School	6-8	1,031	140,000	136	130	6	0	4.45%
Thomas Jefferson Middle School	6-8	1,155	150,150	130	130	0	10,150	0.00%
Simonsen 9th Grade Center	9	839	134,200	160	160	0	54,180	0.00%
Jefferson City High School	9-12	2,415	386,430	160	160	0	170,430	0.00%
<b>15</b>		<b>9,919</b>	<b>1,231,421</b>				<b>256,715</b>	

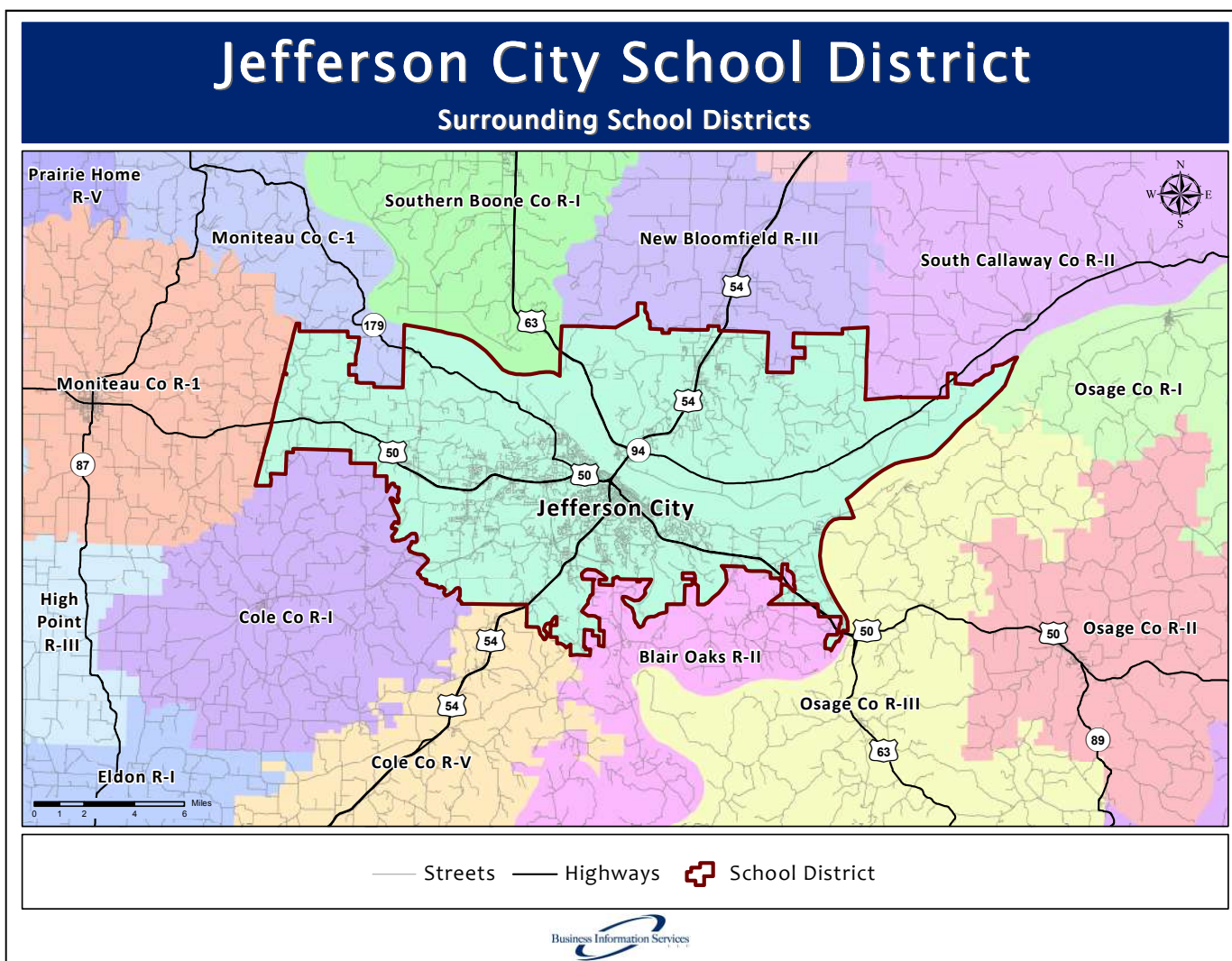
## Overview of the District and 2010 Census Data

The Jefferson City School District covers approximately 215.6 sq. miles in central Missouri. The average school district in the state is 142.4 sq. miles. It is surrounded by 10 other school districts adjacent to it. The school district is nearly exactly half in Cole County and half in Callaway County, with the Missouri River and Highway 50 splitting the district.

Figure 12 on p. 13 compares the population growth in municipalities within Jefferson City and the Jefferson City School District. (No 1980 data is available for the school district population.) The 2010 Census shows that the school district's population grew by 6.1 percent since 2000, but this was a slower growth rate than either Cole or Callaway County, or the City of Jefferson City, which is hard to explain. On average, the school district added 460 persons per year since 2000, which was almost half the rate of growth that it had between 1990 and 2000.

To give some perspective on this growth, the population in the United States increased nationally by 9.7 percent between 2000 and 2010. That is less than 1 percent per year growth, far slower than in previous Census. But the population in the Jefferson City School District grew by even less.

**Figure 11. School districts near the Jefferson City School District.**





Between 2000 and 2010, the Jefferson City School District added 4,142 persons. The enrollment in the district schools in 1999-2000 was 8,395 and was 8,438 in 2009-10, a net change of only 38 students. (The Census was taken on April 1 in 2000 and 2010.) That means that for every 109 people who moved to the school district during the 2000s, only one student was added to the enrollment. This is the highest ratio of population to students that we have ever seen, where usually the ratio is seven or nine new person added for each student enrolled. Part of the issue is the one out of three school-age children living in the district are either home-schooled or attend private schools. But that does not come close to explaining why there are so few students enrolled in the district's schools during the last decade.

Figure 13 shows that the percentage change in Black and Hispanic populations increased sharply in the school district during the last decade while White population grew only slightly. The number of Blacks added to the district exceeded Whites slightly, 1,678 versus 1,504.

**Figure 12. Total population growth in Cole and Callaway counties, the Cities of Holts Summit, Centertown, St. Martins and Jefferson City, in 1980, 1990, 2000 and 2010 Census.**

Geography	1980 Population	1990 Population	% Growth 1980-1990	2000 Population	% Growth 1990-2000	2010 Population	% Growth 2000-2010
Cole County	56,663	63,579	12.2%	71,397	12.3%	75,990	6.4%
Callaway County	32,252	32,809	1.7%	40,766	24.3%	44,332	8.7%
City of Holts Summit	2,540	2,292	-9.8%	2,935	28.1%	3,247	10.6%
City of Centertown	304	356	17.1%	257	-27.8%	278	8.2%
City of St. Martins	739	717	-3.0%	1,023	42.7%	1,140	11.4%
City of Jefferson City	33,619	35,481	5.5%	39,636	11.7%	43,079	8.7%
Jefferson City School District		59,769		67,849	13.5%	71,991	6.1%
Growth Per Year				808	1.4%	460	0.7%

**Figure 13. Ethnic population changes in Cole and Callaway counties, the Cities of Holts Summit, Centertown, St. Martins and Jefferson City, 2000 Census versus 2010 Census.**

Geography	2000 White Population	2010 White Population	% Change	2000 Black Population	2010 Black Population	% Change	2000 Hispanic Population	2010 Hispanic Population	% Change
Cole County	62,158	64,137	3.2%	7,084	8,512	20.2%	915	1,795	96.2%
Callaway County	37,420	40,778	9.0%	2,307	2,032	-11.9%	377	707	87.5%
City of Holts Summit	2,774	2,991	7.8%	87	128	47.1%	37	73	97.3%
City of Centertown	255	270	5.9%	0	2	#DIV/0!	0	2	#DIV/0!
City of St. Martins	996	1,087	9.1%	9	13	44.4%	13	14	7.7%
City of Jefferson City	32,303	33,599	4.0%	5,828	7,263	24.6%	616	1,103	79.1%
Jefferson City School District	58,330	59,834	2.6%	7,020	8,698	23.9%	920	1,896	106.1%

Figure 15 on p. 15 shows that in the spring 2010 there was a large 3-year-old cohort, which should translate into a larger Kindergarten class for 2012. But after this blip, the successive cohorts are more in line with past years. It is interesting to compare the 2010 school-age cohorts with those from the 2000 Census, shown in light blue rows. The overall change is only 69 more school-age children in 2010 compared with 2000, despite the large variations from one age cohort to the next.

The national cohort data is not yet released, but to compare the Missouri data with the Jefferson City School District shows some interesting differences. For example, the 3-year-old cohort in the district increased by 24 percent compared with the 2000 Census, but increased statewide only 8.1 percent between 2000 and 2010.

One of the clearest trends in the age data is the 11.4 percent decrease in the childbearing-age groups of 30 to 49, and the large increase in the older age cohorts, above 50 years old. Both groups in the school district have increased significantly greater than statewide during the last decade. The population for the age groups from 50 to 69 years old increased by nearly 50 percent. Neither one of these factors is at all encouraging for a long-term enrollment growth for the Jefferson City School District.

Because of the depressed housing market, nearly one out of every 11 houses were vacant in 2010, and it is unlikely that during the last 18 months since the Census was taken that this has improved. This vacancy rate is actually lower than the statewide average of 12.4 percent. In 2000, the statewide vacancy rate was 10.1 percent, as shown in Figure 14, below.

**Figure 14. Housing units in the Jefferson City School District, 2000 and 2010 Census data.**

Geography	2000 Housing Units			2010 Housing Units		
	Occupied	Vacant	% Vacant	Occupied	Vacant	% Vacant
Cole County	27,040	1,875	6.9%	29,722	2,602	8.8%
Callaway County	14,416	1,751	12.1%	16,333	2,189	13.4%
City of Holts Summit	1,124	92	8.2%	1,377	195	14.2%
City of Centertown	117	16	13.7%	128	23	18.0%
City of St. Martins	391	8	2.0%	451	23	5.1%
City of Jefferson City	15,794	1,189	7.5%	17,278	1,574	9.1%
Jefferson City School District	25,941	1,725	6.6%	28,575	2,473	8.7%

**Figure 15. Age cohorts in the Jefferson City School District, compared in the 2000 and 2010 Census, along with percentage changes statewide.**

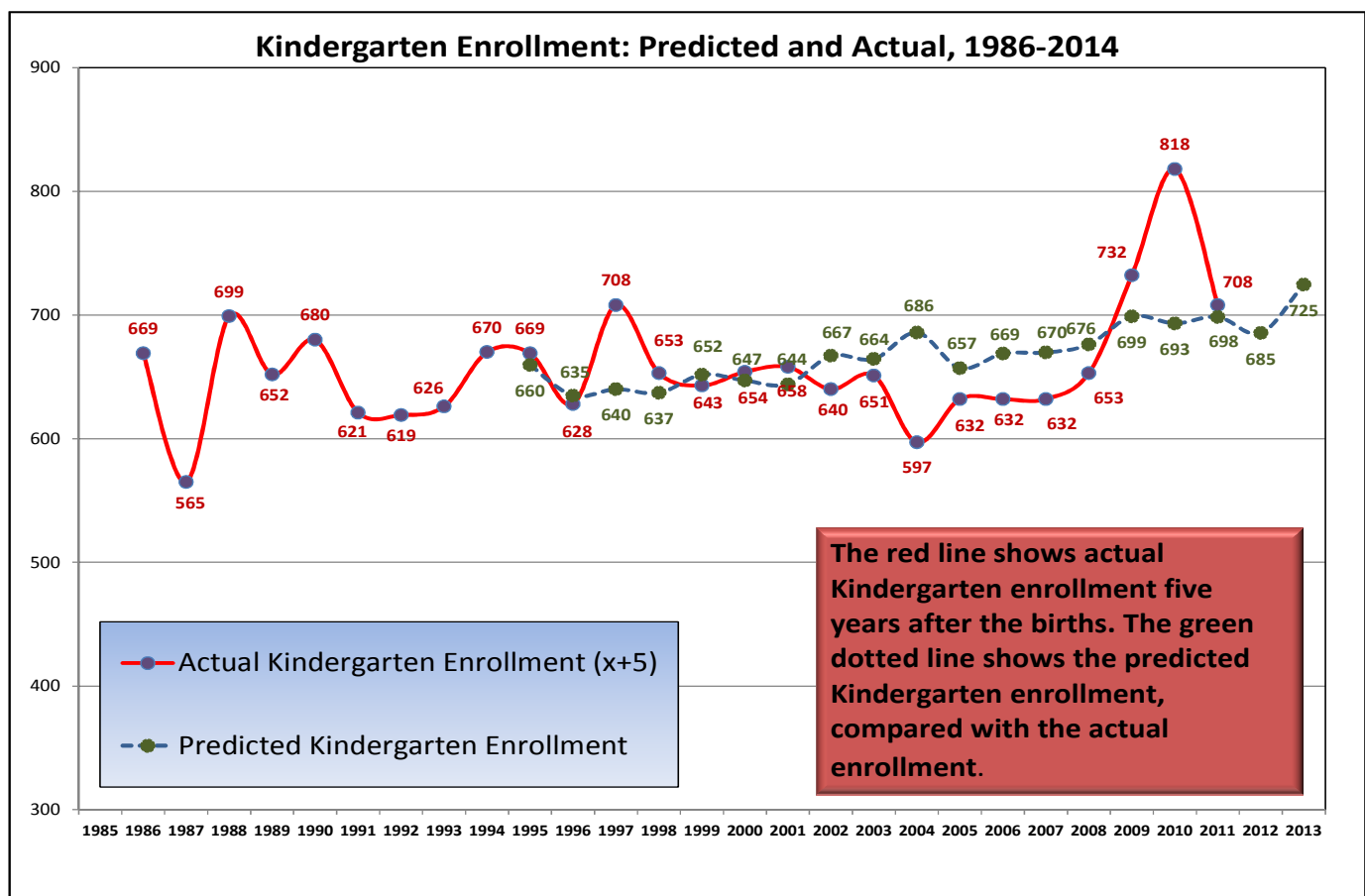
Age Cohorts in Jefferson City School District: 2000 Census and 2010 Census												
Age	2010 Census				2000 Census				Overall Change 2000 > 2010	Overall % Change 2000 > 2010	2010 Census Missouri % Change 2000 > 2010	
	Number			Percent	Number			Percent				
	Both sexes	Male	Female	Both sexes	Both sexes	Male	Female	Both sexes				
Total population (all ages)	71,991	36,284	35,707	100.0%	67,860	34,770	33,090	100.0%	4,131	6.1%	7.0%	
Under 5 years	4,840	2,417	2,423	6.7%	3,740	1,880	1,860	5.5%	1,100	29.4%	5.5%	
Under 1 year	929	464	465	1.3%	820	330	490	1.2%	109	13.3%	4.5%	
1 year	961	475	486	1.3%	945	475	470	1.4%	16	1.7%	3.4%	
2 years	964	453	511	1.3%	910	410	500	1.3%	54	5.9%	6.9%	
3 years	1,018	510	508	1.4%	820	445	375	1.2%	198	24.1%	8.1%	
4 years	968	515	453	1.3%	1,065	550	515	1.6%	-97	-9.1%	4.6%	
5 to 9 years	4,596	2,316	2,280	6.4%	4,570	2,370	2,200	6.7%	26	0.6%	-2.1%	
5 years	959	464	495	1.3%	810	395	415	1.2%	149	18.4%	3.1%	
6 years	974	486	488	1.4%	880	430	450	1.3%	94	10.7%	0.6%	
7 years	901	472	429	1.3%	970	535	435	1.4%	-69	-7.1%	-3.6%	
8 years	895	451	444	1.2%	920	465	455	1.4%	-25	-2.7%	-5.5%	
9 years	867	443	424	1.2%	990	545	445	1.5%	-123	-12.4%	-4.7%	
10 to 14 years	4,463	2,252	2,211	6.2%	4,425	2,240	2,185	6.5%	38	0.9%	-3.7%	
10 years	910	462	448	1.3%	780	375	405	1.1%	130	16.7%	-4.6%	
11 years	860	451	409	1.2%	990	520	470	1.5%	-130	-13.1%	-3.5%	
12 years	888	447	441	1.2%	895	440	455	1.3%	-7	-0.8%	-2.6%	
13 years	924	464	460	1.3%	785	405	380	1.2%	139	17.7%	-3.0%	
14 years	881	428	453	1.2%	975	500	475	1.4%	-94	-9.6%	-4.6%	
15 to 19 years	4,607	2,363	2,244	6.4%	4,530	2,230	2,300	6.7%	77	1.7%	2.5%	
15 years	876	452	424	1.2%	985	465	520	1.5%	-109	-11.1%	-1.9%	
16 years	908	464	444	1.3%	820	450	370	1.2%	88	10.7%	0.9%	
17 years	846	418	428	1.2%	820	375	445	1.2%	26	3.2%	2.3%	
18 years	1,009	521	488	1.4%	900	490	410	1.3%	109	12.1%	5.9%	
19 years	968	508	460	1.3%	1,005	450	555	1.5%	-37	-3.7%	5.6%	
20 years	931	445	486	1.3%	1,005	490	515	1.5%	-74	-7.4%	NA	
21 years	851	394	457	1.2%	950	565	385	1.4%	-99	-10.4%	NA	
22 to 24 years	2951	1520	1431	4.1%	2,815	1,555	1,260	4.1%	136	4.8%	NA	
25 to 29 years	5,359	2,845	2,514	7.4%	5,315	3,020	2,295	7.8%	44	0.8%	11.3%	
30 to 34 years	4,946	2,712	2,234	6.9%	5,255	2,990	2,265	7.7%	-309	-5.9%	-1.1%	
35 to 39 years	4,720	2,598	2,122	6.6%	5,935	3,220	2,715	8.7%	-1,215	-20.5%	-17.0%	
40 to 44 years	4,739	2,544	2,195	6.6%	5,715	3,100	2,615	8.4%	-976	-17.1%	-14.4%	
45 to 49 years	5,361	2,825	2,536	7.4%	5,410	2,800	2,610	8.0%	-49	-0.9%	12.4%	
50 to 54 years	5,455	2,723	2,732	7.6%	4,375	2,330	2,045	6.4%	1,080	24.7%	28.0%	
55 to 59 years	5,102	2,528	2,574	7.1%	3,085	1,515	1,570	4.5%	2,017	65.4%	39.7%	
60 and 61 years	1774	850	924	2.5%	960	435	525	1.4%	814	84.8%	NA	
62 to 64 years	2347	1198	1149	3.2%	1,315	670	645	1.9%	1,032	78.5%	NA	
65 and 66 years	1222	595	627	1.7%	910	425	485	1.3%	312	34.3%	25.2%	
67 to 69 years	1522	702	820	2.1%	1,275	595	680	1.9%	247	19.4%	3.0%	
70 to 74 years	1,962	904	1,058	2.7%	1,870	820	1,050	2.8%	92	4.9%	-1.2%	
75 to 79 years	1,701	711	990	2.4%	1,480	570	910	2.2%	221	14.9%	11.6%	
80 to 84 years	1,241	460	781	1.7%	1,100	385	715	1.6%	141	12.8%	NA	
85 years and over	1301	382	919	1.8%	1,010	240	770	1.5%	291	28.8%	NA	

In some school districts, there is a high correlation between births in a county or city and Kindergarten enrollment five years later. That is definitely not the case in the Jefferson City School District as shown in Figure 8 below. But with the exception of the 818 student enrollment in 2010, the model would have been a fairly accurate predictor during the last 10 years.

The correlation rate is 0.42 for births in the ZIP codes within the district with Kindergarten enrollment in the Jefferson City Schools. A rate of 1.0 would mean that every time there is a birth in the district's ZIP codes, for example, there would be a Kindergartner entering Jefferson City schools. The statistical predictability is only 0.18, which 1.0 would be perfect. The births in the Jefferson City ZIP codes, steadily increased since 2002. (The green numbers show the predicted Kindergarten enrollment based on the actual births.)

For 2011-12 school year, the model predicted 698 and the actual enrollment was 708, a difference of only 10 students. We believe that the birth rate in the Jefferson City School District will follow the national trend of

**Figure 16. Relationship between births, Kindergarten enrollment and projected births.**





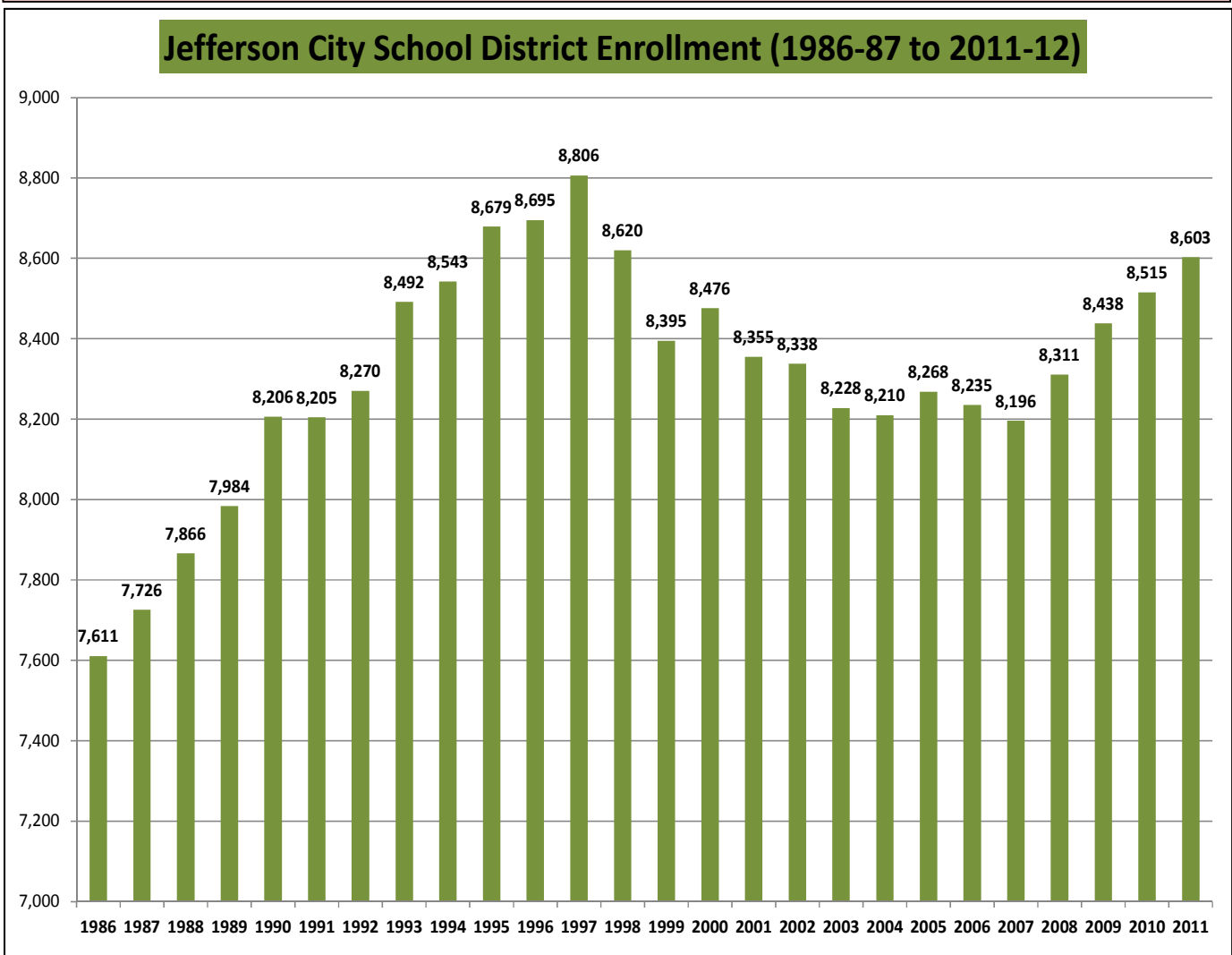
fewer births. Just between 2008 and 2009, we saw a birth rate decrease of more than 10 percent in the school district.

**Figure 17. Relationship between births, and actual and projected Kindergarten enrollment. (Shown in chart in Figure 16.)**

Birth Year	Total Births	Kindergarten Year	Actual Kindergarten Enrollment	Predicted Kindergarten Enrollment	Variance Actual vs Predicted Kindergarten
1980					
1981		1986	669		
1982		1987	565		
1983		1988	699		
1984		1989	652		
1985		1990	680		
1986		1991	621		
1987		1992	619		
1988		1993	626		
1989		1994	670		
1990	974	1995	669	660	9
1991	979	1996	628	635	-7
1992	923	1997	708	640	68
1993	897	1998	653	637	16
1994	943	1999	643	652	-9
1995	962	2000	654	647	7
1996	971	2001	658	644	14
1997	942	2002	640	667	-27
1998	967	2003	651	664	-13
1999	1,041	2004	597	686	-89
2000	949	2005	632	657	-25
2001	1,007	2006	632	669	-37
2002	968	2007	632	670	-38
2003	1,032	2008	653	676	-23
2004	1,073	2009	732	699	33
2005	1,039	2010	818	693	125
2006	1,099	2011	708	698	10
2007	1,075	2012		685	
2008	1,108	2013		725	
2009	1,000	2014			

Enrollment in the Jefferson City School District has not followed a normal growth pattern since 1997, when it peaked at 8,806. In fact, at a time when the population in the school district was increasing since 2000, enrollment in the district was declining or remaining flat. It appears that when the economic collapse started in 2008, enrollment in the district started to increase. This would make sense, since parochial education can be costly and there is a large pool of students living in the district who do not attend the district's schools. (See analysis on p. 22.) However, we could not determine that parochial enrollment had decreased appreciably during that time. In fact, we cannot point to any factor that would contribute to the enrollment growth since 2004.

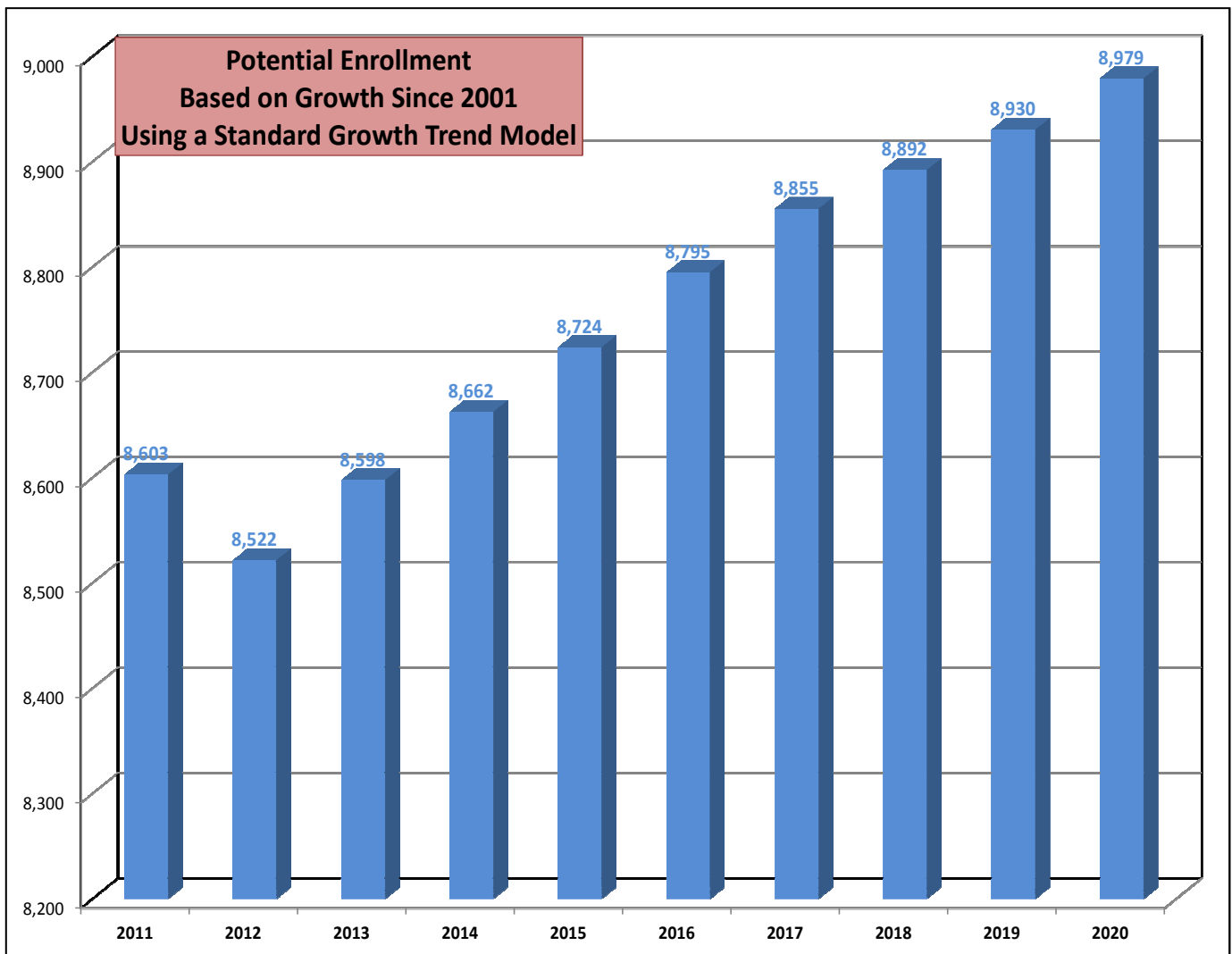
**Figure 18. Total enrollment, Jefferson City School District, 1986-2011. Source: National Center for Education Statistics, based on data provided by the Missouri Department of Elementary and Secondary Education.**



Based on this growth model, the Jefferson City School District could have 8,979 students by 2020, as shown in Figure 18. (This would be in-line with our low-end scenario, shown on p. 56-57).

This model, of course, would be based on the same level of enrollment during the next 10 years as has occurred during the last 10. From 2002 until 2010, enrollment grew steadily. We are not convinced, however, that given the demographic trends that we have already mentioned, that this type of steady enrollment growth is probable

**Figure 19. Projected enrollment in the Jefferson City School District, 2011-2020.**



**Figure 20. Year-by-year enrollment, Jefferson City Schools, 1986-2011.**

Figure 20 shows a year-by-year comparison of Jefferson City enrollment. For the 2011-12 school year, decreases occurred in eight grades. Anomalies can show through in this table, for example, by looking at the 6th grade class in 2009-10. In 2010-11, the 7th grade was only 593, a drop of 29 students. The 2011-12 8th grade class maintained at 596 members. While one class was decreasing, another was increasing. In 2009-10, the 8th grade had 640 members. In 2010-11, there are 714 9th graders, an increase of 74, which usually doesn't happen in 9th grades.

	1986-87	1987-88	% Change	1988-89	% Change	1989-90	% Change	1990-91	% Change	1991-92	% Change	1992-93	% Change	1993-94	% Change	1994-95	% Change	1995-96	% Change	1996-97	% Change	1997-98	% Change	1998-99	% Change	1999-2000	% Change
Pre-K	0	0	0.00%	0	0.00%	0	0.00%	153	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	41	0.00%	70	0.00%	48	0.00%	56	NA
Kindergarten	669	665	-15.55%	689	23.72%	652	-6.72%	680	4.29%	621	-8.68%	619	-0.32%	628	1.3%	670	7.03%	669	-0.15%	628	-6.13%	708	12.74%	653	-7.77%	643	-1.53%
1st Grade	598	700	17.06%	585	-16.43%	711	21.54%	680	-4.36%	685	0.74%	632	-7.71%	651	3.01%	626	-4.76%	649	3.67%	680	4.78%	658	-3.24%	668	1.52%	638	-4.49%
2nd Grade	578	568	-1.73%	660	12.24%	581	-11.97%	676	16.35%	657	-2.81%	688	4.72%	646	-6.10%	645	-0.15%	607	-5.89%	654	7.74%	655	0.15%	643	-1.83%	661	2.80%
3rd Grade	568	605	6.51%	595	-1.65%	662	11.25%	581	-12.24%	688	18.42%	683	-0.73%	697	2.05%	676	-2.85%	645	-4.59%	621	-3.72%	664	6.92%	629	-5.27%	670	6.52%
4th Grade	540	580	7.41%	618	6.55%	585	-5.34%	659	12.85%	597	-9.41%	691	15.75%	702	1.59%	682	-1.29%	660	-3.23%	645	-2.27%	631	-2.17%	661	4.75%	657	-0.61%
5th Grade	533	577	8.13%	603	4.51%	598	-0.83%	633	5.51%	621	-1.90%	668	10.79%	641	-3.93%	714	11.33%	672	-1.88%	713	6.10%	663	-1.40%	680	2.56%	624	-8.24%
6th Grade	522	569	9.00%	590	3.69%	618	4.75%	633	2.43%	682	8.83%	668	-2.00%	641	-4.63%	714	11.33%	672	-1.88%	713	6.10%	663	-1.40%	680	2.56%	624	-8.24%
7th Grade	520	571	9.81%	603	3.69%	622	3.15%	617	-0.80%	665	7.78%	617	-7.22%	728	17.67%	640	-11.85%	728	13.75%	685	-5.91%	720	5.11%	654	-5.17%	666	1.83%
8th Grade	562	586	4.27%	582	-0.68%	601	3.26%	626	4.16%	636	1.60%	669	5.19%	652	-2.54%	720	10.43%	680	5.58%	729	7.21%	689	-5.49%	718	4.21%	675	-5.99%
9th Grade	621	640	3.06%	647	1.09%	650	0.46%	655	0.77%	696	6.26%	680	-2.30%	688	0.88%	643	-6.27%	736	14.46%	653	-11.28%	730	11.79%	684	-3.30%	705	3.07%
10th Grade	605	649	7.27%	638	-1.69%	627	-1.72%	623	-0.64%	614	-1.44%	637	3.75%	692	8.63%	716	3.47%	705	-1.54%	781	10.78%	694	-11.44%	783	12.82%	729	6.80%
11th Grade	564	559	-0.89%	543	-2.86%	510	-6.08%	542	6.27%	570	5.17%	560	-1.75%	577	3.04%	602	4.33%	652	8.31%	602	-7.67%	678	12.62%	551	-18.73%	632	-14.70%
12th Grade	482	537	11.41%	503	6.33%	513	1.99%	483	-5.85%	473	-2.07%	507	7.19%	499	-1.58%	514	3.01%	563	9.53%	606	7.64%	580	-4.29%	624	7.59%	374	-40.06%
Ungraded	229	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
TOTAL	7,611	7,726	1.51%	7,866	1.81%	7,984	1.50%	8,206	2.78%	8,205	-0.01%	8,270	0.79%	8,492	2.68%	8,543	0.60%	8,679	1.59%	8,695	0.18%	8,806	1.28%	8,820	-0.11%	8,395	-2.61%

	2000-01	% Change	2001-02	% Change	2002-03	% Change	2003-04	% Change	2004-05	% Change	2005-06	% Change	2006-07	% Change	2007-08	% Change	2008-09	% Change	2009-10	% Change	2010-11	% Change	2011-12	% Change	1986 vs 2012
Pre-K	72	28.57%	71	-1.39%	75	0.00%	0	-100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	N/A
Kindergarten	654	1.77%	658	0.61%	640	-2.74%	651	1.72%	597	-8.29%	632	5.86%	632	0.00%	632	0.00%	653	3.32%	732	12.10%	818	11.75%	708	-13.45%	5.83%
1st Grade	651	2.04%	637	-2.15%	641	0.63%	649	1.25%	645	-0.62%	638	-1.00%	620	-3.00%	628	1.29%	644	2.55%	673	4.50%	700	4.01%	788	12.57%	31.77%
2nd Grade	633	-4.24%	625	-1.26%	620	-0.80%	642	3.55%	634	-1.25%	627	-1.00%	613	-2.23%	589	-9.92%	643	9.17%	641	-0.31%	675	5.30%	707	4.74%	22.32%
3rd Grade	662	-6.69%	626	-5.99%	607	-3.04%	606	-0.16%	637	5.12%	662	4.36%	636	-2.35%	608	-4.40%	607	-0.16%	653	7.58%	639	-2.14%	670	4.65%	17.96%
4th Grade	659	0.30%	670	1.67%	626	-6.57%	596	-4.79%	622	4.36%	623	0.16%	661	6.10%	619	-6.35%	622	0.48%	614	-1.29%	641	4.40%	654	2.03%	21.11%
5th Grade	644	-3.16%	656	1.86%	662	0.91%	635	-4.08%	613	-3.46%	616	0.49%	629	2.11%	660	4.93%	625	-5.30%	618	-1.12%	606	-1.94%	625	3.14%	13.02%
6th Grade	655	4.97%	646	-1.37%	663	2.63%	668	0.75%	636	-4.75%	595	-8.45%	613	3.03%	630	2.77%	644	2.22%	622	-3.42%	606	-2.57%	629	3.80%	20.50%
7th Grade	611	-8.28%	671	9.82%	641	-4.47%	655	2.18%	676	3.21%	620	-7.85%	592	-8.92%	617	4.22%	651	5.51%	680	4.45%	593	-12.79%	603	1.89%	15.96%
8th Grade	650	-3.70%	608	-8.46%	671	10.36%	652	-2.83%	666	2.15%	662	-0.90%	637	-4.50%	596	-8.44%	618	3.69%	640	3.56%	652	1.88%	596	-8.59%	6.05%
9th Grade	664	-5.82%	642	-3.31%	611	-4.83%	673	10.15%	719	6.84%	759	5.56%	765	3.00%	775	1.31%	782	0.82%	812	3.83%	714	3.33%	705	-1.27%	13.53%
10th Grade	760	4.25%	701	-7.76%	714	1.85%	678	-5.04%	673	-0.74%	645	-4.82%	673	2.91%	671	-0.30%	682	1.64%	653	-4.25%	662	1.38%	730	10.27%	20.66%
11th Grade	568	-9.97%	608	6.85%	574	-5.59%	601	4.70%	575	-4.33%	635	10.43%	598	-5.83%	634	6.02%	645	1.74%	644	-0.16%	628	-2.48%	620	-1.27%	9.93%
12th Grade	602	60.96%	536	-10.96%	593	-1.86%	522	-11.97%	517	-0.96%	514	-0.58%	566	10.12%	537	-5.12%	565	5.21%	577	2.12%	581	0.69%	568	-2.24%	17.84%
Ungraded	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0.00%
TOTAL	8,476	0.96%	8,355	-1.43%	8,338	-0.20%	8,228	-1.32%	8,210	-0.22%	8,268	0.71%	8,235	-0.40%	8,196	-0.47%	8,311	1.40%	8,438	1.53%	8,515	0.91%	8,603	1.03%	13.09%



A key factor involved in having growing enrollment in a school district is the employment profile in an area. Again, this is not positive for the Jefferson City School District. As the seat of state government, employment in local, state and federal government accounts for 35 percent of all area jobs. Since 2004, government employment has shrunk by 4.55 percent; since July 2011 the metro area has seen 400 government jobs leave. Given the status of national and state budgets, we do not see a short-term reason for increases in government employment, and unless the state legislature were to approve a second nuclear plant in Callaway County or some private business, we don't see increased employment resulting in an increase in district enrollment.

## Employment in the Jefferson City, MO Metropolitan Area (Aug 2010 vs Aug 2011)

Industry	Number of Jobs			Net Change From:	
	Aug 2011	Jul 2011	Aug 2010	July 2011	Aug 2010
Total Nonfarm	76,500	76,800	78,100	-300	-1,600
Total Private	49,200	49,100	50,600	100	-1,400
Goods Producing	9,600	9,700	9,500	-100	100
Service-Providing	66,900	67,100	68,000	-200	-1,100
Private Service Providing	39,600	39,400	41,100	200	-1,500
Trade	12,500	12,200	13,700	300	-1,200
Retail Trade	9,100	9,100	8,600	0	500
Government	27,300	27,700	26,900	-400	400
Federal Government	800	900	900	-100	-100
State Government	21,400	21,500	20,900	-100	500
Local Government	5,100	5,300	5,100	-200	0

Produced by MERIC in cooperation with U.S. Department of Labor, Bureau of Labor Statistics

Figure 21 and 22.  
Employment in the Jefferson City metro area.

## Change in the Number of Jobs in the Jefferson City Metro Area

Industry	Number of Jobs								Change 2011 < 2004	Percentage Change 2011 < 2004
	Aug-11	Jan-10	Jan-09	Jan-08	Jan-07	Jan-06	Jan-05	Jan-04		
Total Nonfarm	76,500	76,700	78,500	79,100	78,200	77,100	77,700	77,100	-600	-0.78%
Total Private	49,200	48,600	49,400	50,400	49,800	49,200	48,500	48,500	700	1.44%
Goods Producing	9,600	8,700	9,600	10,000	10,000	10,400	9,800	10,500	-900	-8.57%
Service-Providing	66,900	68,000	68,900	69,100	68,200	66,700	67,900	66,600	300	0.45%
Private Service Providing	39,600	39,900	39,800	40,400	39,800	38,800	38,700	38,000	1,600	4.21%
Trade	12,500	13,200	13,300	13,800	13,700	13,800	13,800	13,600	-1,100	-8.09%
Retail Trade	9,100	8,500	8,100	8,900	8,900	8,800	9,000	9,200	-100	-1.09%
Government	27,300	28,100	29,100	28,700	28,400	27,900	29,200	28,600	-1,300	-4.55%
Federal Government	800	900	900	800	800	800	800	900	-100	-11.11%
State Government	21,400	21,400	22,400	22,300	22,100	21,700	23,000	22,300	-900	-4.04%
Local Government	5,100	5,800	5,800	5,600	5,500	5,400	5,400	5,400	-300	-5.56%

Figure 23, below, shows that, in 2010, 72.19 percent of the children living within the school district attended the Jefferson City schools. In 1990, the percentage was 76.12. Admittedly, the school enrollment data was gathered in the fall and the Census data was captured in the spring of the following year. But this is the closest comparison that we have of actual versus possible enrollment. There is virtually no change between the 2000 Census and the 2010 Census in the percentage attending the district schools. This means that in 2010, 28 percent of the children were either home-schooled, or attended private schools or other public school. Statewide, about 14 percent of the students do not attend public schools at the district in which they live.

In 2010, we compiled Figure 25 on p. 23 that showed that there were 11,144 school-age children living in the district. With the Census showing 11,689 children living in the district, we were able to account for all except 4.8 percent of the children. (We calculated the home-school attendance by using a factor of 3 children per household and multiplying by 160 confirmed home-school households within the district's border. Since home-school families may be larger than that factor, we have likely underestimated the home-school enrollment.) We cannot emphasize enough that the impact of non-public school students on the attendance levels of the Jefferson

**Figure 23. 2000 Census versus 2009 estimated population with Jefferson City School District enrollment.**

Comparison of 2000 Census and 2010 Census Population and Jefferson City School District Enrollment						
	2000 Census	2000-01 Enrollment	% of Census to Enrollment	2010 Census	2009-10 Enrollment	% of Estimated Population to Enrollment
Under 1 yrs	820			929		
1 yr olds	945			961		
2 yr olds	910			964		
3 yr olds	820			1,018		
4 yr olds	1,065			968		
Kindergarten	810	654	80.74%	959	732	76.33%
1st Grade	880	651	73.98%	974	673	69.10%
2nd Grade	970	633	65.26%	901	641	71.14%
3rd Grade	920	652	70.87%	895	653	72.96%
4th Grade	990	659	66.57%	867	614	70.82%
5th Grade	780	644	82.56%	910	618	67.91%
6th Grade	990	655	66.16%	860	622	72.33%
7th Grade	895	611	68.27%	888	680	76.58%
8th Grade	785	650	82.80%	924	640	69.26%
9th Grade	975	664	68.10%	881	691	78.43%
10th Grade	985	760	77.16%	876	653	74.54%
11th Grade	820	569	69.39%	908	644	70.93%
12th Grade	820	602	73.41%	846	577	68.20%
<b>Total (K-12)</b>	<b>11,620</b>	<b>8,404</b>	<b>72.32%</b>	<b>11,689</b>	<b>8,438</b>	<b>72.19%</b>

Figure 24. 1990 Census versus 1990 estimated population with Jefferson City School District enrollment.

Comparison of 1990 Census and Jefferson City School District 1990 Enrollment				
	1990 Census	1990-01 Enrollment	% of Census to Enrollment	% of Total Population
Under 1 yrs	861			18.20%
1 yr olds	883			18.66%
2 yr olds	715			15.11%
3 yr olds	775			16.38%
4 yr olds	788			16.65%
Kindergarten	846	680	80.38%	17.88%
1st Grade	866	680	78.52%	18.30%
2nd Grade	842	676	80.29%	17.79%
3rd Grade	913	581	63.64%	19.29%
4th Grade	890	659	74.04%	18.81%
5th Grade	928	598	64.44%	19.61%
6th Grade	823	633	76.91%	17.39%
7th Grade	751	617	82.16%	15.87%
8th Grade	718	626	87.19%	15.17%
9th Grade	725	655	90.34%	15.32%
10th Grade	773	623	80.60%	16.34%
11th Grade	694	542	78.10%	14.67%
12th Grade	811	483	59.56%	17.14%
<b>Total (K-12)</b>	<b>10,580</b>	<b>8,053</b>	<b>76.12%</b>	

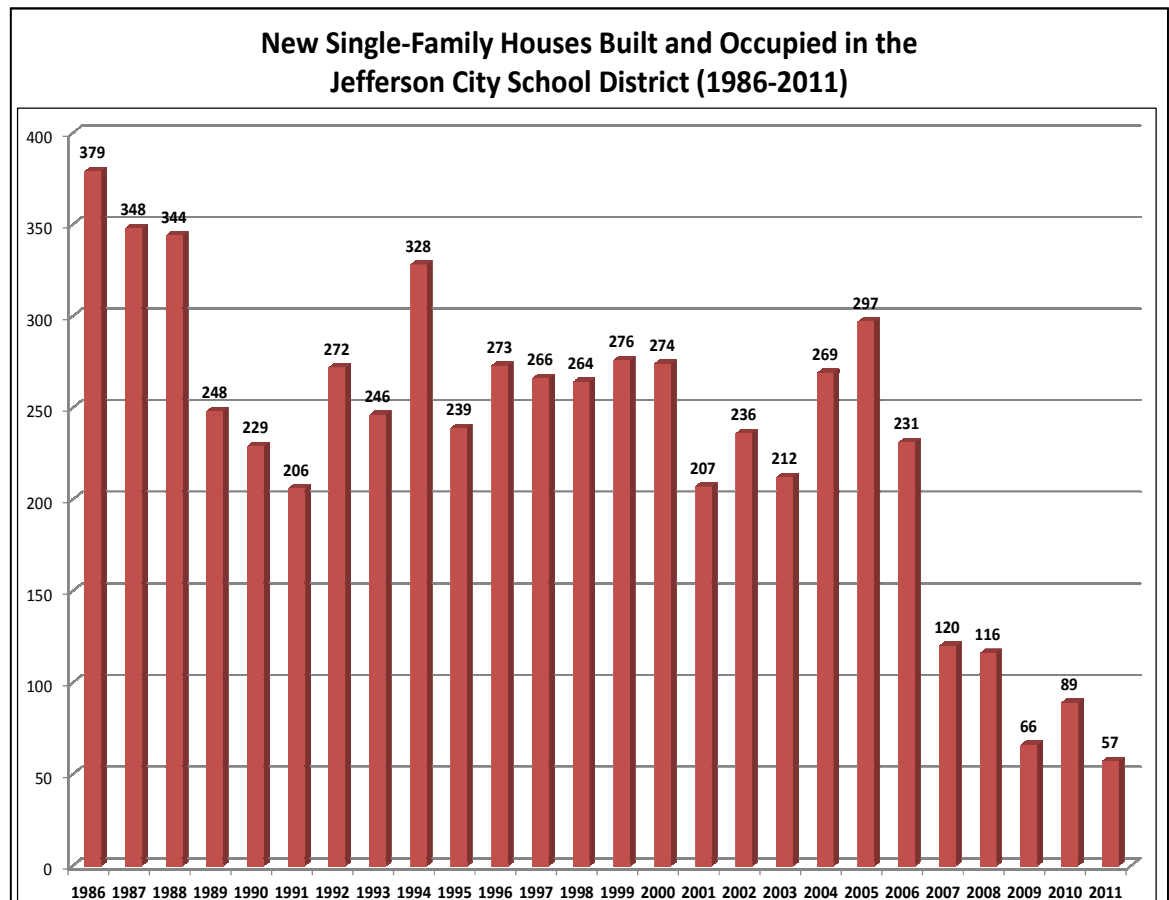
City School District is significant. In the United States, private school enrollment has decreased between 15 and 30 percent since 2008, but it appears that little to no decrease has occurred in the Jefferson City area, especially how the percentage of children attending the district's schools have changed so little during the last 20 years.

Figure 25. Analysis of the school-age population in the Jefferson City School District, 2010.

Analysis of the School-Age Population in the Jefferson City School District		
Criteria	Number	%
2009-10 Jefferson City School District Enrollment	8,438	75.7%
2010-11 Private School Enrollment	2,226	20.0%
2010-11 Est. Home-School Enrollment	480	4.3%
Estimated Number of Total School-Age Children	11,144	100.0%

**Figure 26. New single-family houses in Jefferson City School District, 1986-2011 and the enrollment relationship, right, and overall single-family houses built, Figure 27, below.**

Year SF Home Built	Count of New Houses Built	District Enrollment	District Enrollment Increase	Ratio of Enrollment Increase to New Houses Built
1986	379	7,611		
1987	348	7,726	115	0.330
1988	344	7,866	140	0.407
1989	248	7,984	118	0.476
1990	229	8,206	222	0.969
1991	206	8,205	-1	-0.005
1992	272	8,270	65	0.239
1993	246	8,492	222	0.902
1994	328	8,543	51	0.155
1995	239	8,679	136	0.569
1996	273	8,695	16	0.059
1997	266	8,806	111	0.417
1998	264	8,620	-186	-0.705
1999	276	8,395	-225	-0.815
2000	274	8,476	81	0.296
2001	207	8,355	-121	-0.585
2002	236	8,338	-17	-0.072
2003	212	8,228	-110	-0.519
2004	269	8,210	-18	-0.067
2005	297	8,268	58	0.195
2006	231	8,235	-33	-0.143
2007	120	8,196	-39	-0.325
2008	116	8,311	115	0.991
2009	66	8,438	127	1.924
2010	89	8,695	257	2.888
2011	57	8,603	-92	-1.614
Average	234		36	0.204

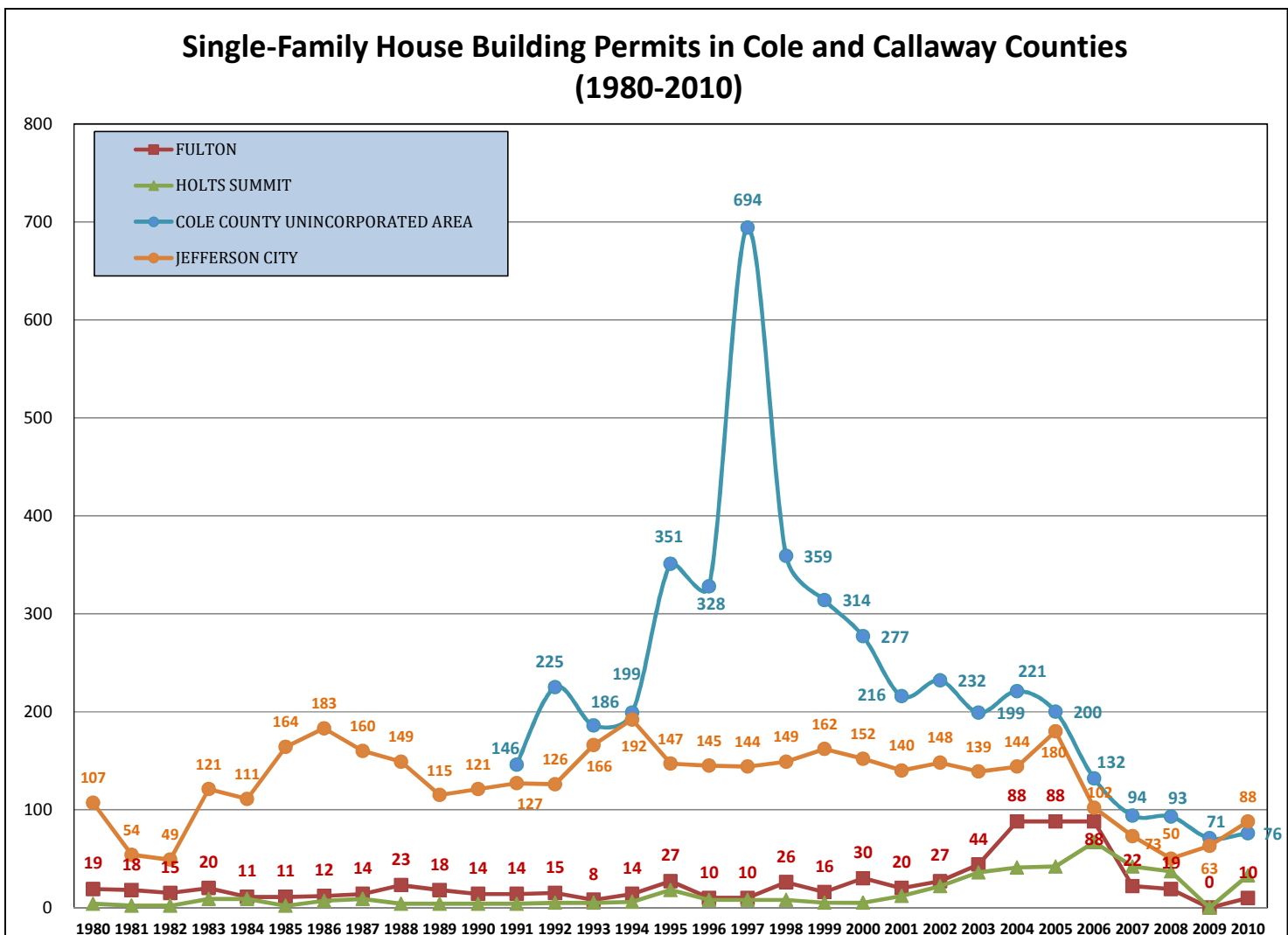




Since 2007, a total of 302 new single-family houses have been built in the Jefferson City School District in Cole County. (We could not obtain data from Callaway County to indicate levels of housing.) In 2005 there were 297 new homes constructed and occupied. The nationwide depression in the home building industry has affected the school district, where there has been a huge drop-off in construction.

We show in Figure 229 below that just because there are a large number of building permits issued does not necessarily mean the house was constructed. Builders may not have been able to get financing after getting the permit. We also have shown there is little relationship between new homes built and actual enrollment increases, therefore, we will focus for the rest of this section on an analysis of parcels that impacts the finances of the district.

**Figure 28. New single-family house building permits in Cole and Callaway Counties, 1980-2010.**



As part of this updated study, we compared several demographic factors tracked in the 2010 Census as well as the 2000 Census, and those tables are shown in Figure 29 on p. 27 through Figure 34 on p. 35. In those rows where there is “NA” or is blank, those factors were not included in both censuses.

**There are 1,204 more rental units in 2010 than in 2000. In 2000, free and clear ownership wasn't tracked. The overall ownership numbers haven't changed much. One out of every three housing units in the district is a rental unit.**

**The number of large households dropped significantly in owner-occupied housing, but increased in renter units. This would seem to imply that these families were moving into houses and renting them rather than apartments. Data in this recessions indicates that the economy has forced these families into rental houses and out of their owner-occupied houses.**

**This is a big drop in the main cohort that would usually be group involved in child-rearing.**

**Rental properties for the over-65-year-old crowd has increased dramatically during the last decade.**

Figure 29. Households and tenure in the Jefferson City School District, 2000 and 2010 Census data.

Households and Tenure in the Jefferson City School District: 2000 and 2010 Census						
Subject	2010 Census		2000 Census		Change 2000 > 2010	% Change 2000 > 2010
	Number	Percent	Number	Percent		
TENURE						
Occupied housing units	28,575	100.0%	25,941	100.0%	2,634	10.2%
Owned with a mortgage or loan	12,860	45.0%	17,230	66.4%		
Owned free and clear	5,800	20.3%	NA			
Renter occupied	9,915	34.7%	8,711	33.6%	1,204	13.8%
TENURE BY HOUSEHOLD SIZE						
Owner-occupied housing units	18,660	100.0%	17,205	100.0%	1,455	8.5%
1-person household	4,207	22.5%	3,555	20.7%	652	18.3%
2-person household	7,501	40.2%	6,285	36.5%	1,216	19.3%
3-person household	2,958	15.9%	3,055	17.8%	-97	-3.2%
4-person household	2,533	13.6%	2,775	16.1%	-242	-8.7%
5-person household	1,002	5.4%	1,150	6.7%	-148	-12.9%
6-person household	341	1.8%	325	1.9%	16	4.9%
7-or-more-person household	118	0.6%	55	0.3%	63	114.5%
Renter-occupied housing units	9,915	100.0%	8,720	100.0%	1,195	13.7%
1-person household	4,478	45.2%	4,075	46.7%	403	9.9%
2-person household	2,514	25.4%	2,325	26.7%	189	8.1%
3-person household	1,392	14.0%	1,180	13.5%	212	18.0%
4-person household	892	9.0%	740	8.5%	152	20.5%
5-person household	377	3.8%	255	2.9%	122	47.8%
6-person household	181	1.8%	115	1.3%	66	57.4%
7-or-more-person household	81	0.8%	30	0.3%	51	170.0%
TENURE BY AGE OF HOUSEHOLDER						
Owner-occupied housing units	18,660	100.0%	17,205	100.0%	1,455	8.5%
15 to 24 years	311	1.7%	265	1.5%	46	17.4%
25 to 34 years	2,230	12.0%	2,145	12.5%	85	4.0%
35 to 44 years	3,042	16.3%	4,010	23.3%	-968	-24.1%
45 to 54 years	4,190	22.5%	4,270	24.8%	-80	-1.9%
55 to 64 years	4,316	23.1%	1,430	8.3%	2,886	201.8%
65 years and over	4,571	24.5%	1,210	7.0%	3,361	277.8%
65 to 74 years	2,405	12.9%	2,190	12.7%	215	9.8%
75 to 84 years	1,616	8.7%	1,335	7.8%	281	21.0%
85 years and over	550	2.9%	350	2.0%	200	57.1%
Renter-occupied housing units	9,915	100.0%	8,720	100.0%	1,195	13.7%
15 to 24 years	1,310	13.2%	1,360	15.6%	-50	-3.7%
25 to 34 years	2,652	26.7%	2,445	28.0%	207	8.5%
35 to 44 years	1,760	17.8%	1,775	20.4%	-15	-0.8%
45 to 54 years	1,631	16.4%	1,405	16.1%	226	16.1%
55 to 64 years	1,232	12.4%	445	5.1%	787	176.9%
65 years and over	1,330	13.4%	185	2.1%	1,145	618.9%
65 to 74 years	570	5.7%	430	4.9%	140	32.6%
75 to 84 years	436	4.4%	445	5.1%	-9	-2.0%
85 years and over	324	3.3%	230	2.6%	94	40.9%

# Jefferson City School District

Figure 30. Household types in the Jefferson City School District, 2000 and 2010 Census data.

During the 2000s, females in the school district who were household heads increased by 41 percent.

One-person households increased overall by 13.8 percent; 7-person households increased by 134 percent since 2000. The number of 4- and 5- person households fell slightly.

The number of husband-wife families in the school district has decreased by nearly 20 percent since 2000 and a female without a husband increased by 31 percent.

Household Types in the Jefferson City School District: 2000 and 2010 Census						
Subject	2010 Census		2000 Census		Change 2000 > 2010	% Change 2000 > 2010
	Number	Percent	Number	Percent		
HOUSEHOLD TYPE						
Total households	28,575	100.0%	25,925	100.00%	2,650	10.2%
Family households [1]	18,236	63.8%	16,935	65.32%	1,301	7.7%
Male householder	13,068	45.7%	13,290	51.26%	-222	-1.7%
Female householder	5,168	18.1%	3,650	14.08%	1,518	41.6%
Nonfamily households [2]	10,339	36.2%	10,650	41.08%	-311	-2.9%
Male householder	4,636	16.2%	3,950	15.24%	686	17.4%
Living alone	3,703	13.0%	3,205	12.36%	498	15.5%
Female householder	5,703	20.0%	5,060	19.52%	643	12.7%
Living alone	4,982	17.4%	4,450	17.16%	532	12.0%
HOUSEHOLD SIZE						
Total households	28,575	100.0%	25,925	100.00%	2,650	10.2%
1-person household	8,685	30.4%	7,630	29.43%	1,055	13.8%
2-person household	10,015	35.0%	8,610	33.21%	1,405	16.3%
3-person household	4,350	15.2%	4,235	16.34%	115	2.7%
4-person household	3,425	12.0%	3,515	13.56%	-90	-2.6%
5-person household	1,379	4.8%	1,405	5.42%	-26	-1.9%
6-person household	522	1.8%	440	1.70%	82	18.6%
7-or-more-person household	199	0.7%	85	0.33%	114	134.1%
Average household size	2.35		2.39		-0.04	-1.7%
Average family size	2.92		2.97		-0.05	-1.7%
FAMILY TYPE AND PRESENCE						
Families [3]	18,236	100.0%	16,935	100.00%	1,301	7.7%
With related children under 18	8,908	48.8%	NA	NA	NA	NA
With own children under 18	8,345	45.8%	NA	NA	NA	NA
Under 6 years only	2,142	11.7%	NA	NA	NA	NA
Under 6 and 6 to 17 years	1,646	9.0%	NA	NA	NA	NA
6 to 17 years only	4,557	25.0%	NA	NA	NA	NA
Husband-wife families	13,675	100.0%	13,460	100.00%	215	1.6%
With related children under 18	5,677	41.5%	6,615	49.15%	-938	-14.2%
With own children under 18	5,412	39.6%	NA	NA	NA	NA
Under 6 years only	1,279	9.4%	1,575	11.70%	-296	-18.8%
Under 6 and 6 to 17 years	1,175	8.6%	1,480	11.00%	-305	-20.6%
6 to 17 years only	2,958	21.6%	3,555	26.41%	-597	-16.8%
Female householder, no husband	3,387	100.0%	2,580	100.00%	807	31.3%
With related children under 18	2,422	71.5%	1,860	72.09%	562	30.2%
With own children under 18	2,193	64.7%	NA	NA	NA	NA
Under 6 years only	632	18.7%	NA	NA	NA	NA
Under 6 and 6 to 17 years	376	11.1%	NA	NA	NA	NA
6 to 17 years only	1,185	35.0%	NA	NA	NA	NA

X Not applicable.

[1] A household that has at least one member of the household related to the householder by birth, marriage, or adoption is a "Family household." Same-sex couple households are included in the family households category if there is at least one additional person related to the householder by birth or adoption. Same-sex couple households with no relatives of the householder present are tabulated in nonfamily households. Responses of "same-sex spouse" were edited during processing to "unmarried partner."

[2] "Nonfamily households" consist of people living alone and households which do not have any members related to the householder.

[3] "Families" consist of a householder and one or more other people related to the householder by birth, marriage, or adoption. They do not include same-sex married couples even if the marriage was performed in a state issuing marriage certificates for same-sex couples. Same-sex couples are included in the families category if there is at least one additional person related to the householder by birth or adoption. Responses of "same-sex spouse" were edited during processing to "unmarried partner." Same-sex couple households with no relatives of the householder present are tabulated in nonfamily households.

Source: U.S. Census Bureau, 2010 Census.

**Figure 31. Race in the Jefferson City School District, 2000 and 2010 Census data.**

Race in the Jefferson City School District: 2000 and 2010 Census						
Subject	2010 Census		2000 Census		Change 2000 > 2010	% Change 2000 > 2010
	Number	Percent	Number	Percent	Number	Percent
<b>RACE</b>						
Total population	71,991	100.0%	67,860	100.0%	4,131	6.1%
One race	70,511	97.9%	66,760	98.4%	3,751	5.6%
White	59,834	83.1%	58,330	86.0%	1,504	2.6%
Black or African American	8,698	12.1%	7,020	10.3%	1,678	23.9%
American Indian and Alaska Native	246	0.3%	245	0.4%	1	0.4%
American Indian, specified	142	0.2%	NA	NA	NA	NA
Alaska Native, specified	2	0.0%	NA	NA	NA	NA
Both American Indian and Alaska Native, specified	0	0.0%	NA	NA	NA	NA
American Indian or Alaska Native, not specified	102	0.1%	NA	NA	NA	NA
Asian	975	1.4%	660	1.0%	315	47.7%
Native Hawaiian and Other Pacific Islander	46	0.1%	55	0.1%	-9	-16.4%
Some Other Race	712	1.0%	450	0.7%	262	58.2%
Two or More Races	1,480	2.1%	1,100	1.6%	380	34.5%
Two races with Some Other Race	144	0.2%	NA	NA	NA	NA
Two races without Some Other Race	1,250	1.7%	NA	NA	NA	NA
Three or more races with Some Other Race	10	0.0%	NA	NA	NA	NA
Three or more races without Some Other Race	76	0.1%	NA	NA	NA	NA
<b>HISPANIC OR LATINO</b>						
Total Population	71,991	100.0%	67,860	100.0%	4,131	6.1%
Hispanic or Latino (of any race)	1,896	2.6%	920	1.4%	976	106.1%
Mexican	1,267	1.8%	NA	NA	NA	NA
Puerto Rican	123	0.2%	NA	NA	NA	NA
Cuban	37	0.1%	NA	NA	NA	NA
Other Hispanic or Latino	469	0.7%	NA	NA	NA	NA
Not Hispanic or Latino	70,095	97.4%	66,940	98.6%	3,155	4.7%

Minority populations in the district have increased far faster than the White population since 2000, mirroring trends nationwide.

In 2010, the Census was much more specific about cataloging race than in previous censuses.



There is a 43 percent increase in vacant housing in the district since 2000. Even with a strong government presence, the area is not immune of the effects of the deep recession.

Of the vacant housing, there has been a 33 percent increase in rental units since 2000. The “other vacant” would include foreclosed and bank-owned properties.

Rental units among Hispanics increased by about the same proportion as ownership decreased among Hispanics.

Figure 32. Housing tenure in race in the Jefferson City School District, 2000 and 2010 Census data.

Housing Tenure by Race in the Jefferson City School District: 2000 and 2010 Census						
Subject	2010 Census		2000 Census		Change 2000 > 2010	% Change 2000 > 2010
	Number	Percent	Number	Percent		
OCCUPANCY STATUS						
Total housing units	31,048	100.0%	27,650	100.0%	3,398	12.3%
Occupied housing units	28,575	92.0%	25,925	93.8%	2,650	10.2%
Vacant housing units	2,473	8.0%	1,725	6.2%	748	43.4%
TENURE						
Occupied housing units	28,575	100.0%	25,925	100.0%	2,650	10.2%
Owner occupied	18,660	65.3%	17,205	66.4%	1,455	8.5%
Owned with a mortgage or loan	12,860	45.0%	NA	NA	NA	NA
Owned free and clear	5,800	20.3%	NA	NA	NA	NA
Renter occupied	9,915	34.7%	8,720	33.6%	1,195	13.7%
VACANCY STATUS						
Vacant housing units	2,473	100.0%	1,725	100.0%	748	43.4%
For rent	906	36.6%	680	39.4%	226	33.2%
Rented, not occupied	50	2.0%	NA	NA	NA	NA
For sale only	391	15.8%	390	22.6%	1	0.3%
Sold, not occupied	109	4.4%	145	8.4%	-36	-24.8%
For seasonal, recreational, or occasional use	318	12.9%	305	17.7%	13	4.3%
For migratory workers	0	0.0%	0	0.0%	0	0.0%
▶ Other vacant	699	28.3%	205	11.9%	494	241.0%
TENURE BY HISPANIC OR LATINO ORIGIN OF HOUSEHOLDER BY						
Occupied housing units	28,575	100.0%	25,925	100.0%	2,650	10.2%
Owner-occupied housing units	18,660	65.3%	17,205	66.4%	1,455	8.5%
Not Hispanic or Latino householder	18,429	64.5%	16,885	65.1%	1,544	9.1%
White alone householder	17,458	61.1%	16,485	63.6%	973	5.9%
Black or African American alone householder	655	2.3%	410	1.6%	245	59.8%
American Indian and Alaska Native alone householder	53	0.2%	50	0.2%	3	6.0%
Asian alone householder	126	0.4%	90	0.3%	36	40.0%
Native Hawaiian and Other Pacific Islander alone householder	7	0.0%	20	0.1%	-13	-65.0%
Some Other Race alone householder	6	0.0%	55	0.2%	-49	-89.1%
Two or More Races householder	124	0.4%	100	0.4%	24	24.0%
▶ Hispanic or Latino householder	231	0.8%	320	1.2%	-89	-27.8%
White alone householder	137	0.5%	NA	NA	NA	NA
Black or African American alone householder	3	0.0%	NA	NA	NA	NA
American Indian and Alaska Native alone householder	5	0.0%	NA	NA	NA	NA
Asian alone householder	1	0.0%	NA	NA	NA	NA
Native Hawaiian and Other Pacific Islander alone householder	0	0.0%	NA	NA	NA	NA
Some Other Race alone householder	69	0.2%	NA	NA	NA	NA
Two or More Races householder	16	0.1%	NA	NA	NA	NA
Renter-occupied housing units	9,915	34.7%	8,720	33.6%	1,195	13.7%
Not Hispanic or Latino householder	9,634	33.7%	8,515	32.8%	1,119	13.1%
White alone householder	7,431	26.0%	6,965	26.9%	466	6.7%
Black or African American alone householder	1,781	6.2%	1,365	5.3%	416	30.5%
American Indian and Alaska Native alone householder	40	0.1%	45	0.2%	-5	-11.1%
Asian alone householder	205	0.7%	145	0.6%	60	41.4%
Native Hawaiian and Other Pacific Islander alone householder	5	0.0%	10	0.0%	-5	-50.0%
Some Other Race alone householder	10	0.0%	75	0.3%	-65	-86.7%
Two or More Races householder	162	0.6%	110	0.4%	52	47.3%
▶ Hispanic or Latino householder	281	1.0%	205	0.8%	76	37.1%
White alone householder	128	0.4%	NA	NA	NA	NA
Black or African American alone householder	16	0.1%	NA	NA	NA	NA
American Indian and Alaska Native alone householder	8	0.0%	NA	NA	NA	NA
Asian alone householder	2	0.0%	NA	NA	NA	NA
Native Hawaiian and Other Pacific Islander alone householder	0	0.0%	NA	NA	NA	NA
Some Other Race alone householder	99	0.3%	NA	NA	NA	NA
Two or More Races householder	28	0.1%	NA	NA	NA	NA

**The number of prisoners fell by 20 percent since 2000.**

**45 percent more parents live with their adult children than in 2000.**

**Nonrelatives living in the household has doubled since the last census. Unemployment and foreclosures are forcing more people to double- and triple-up under the same roof.**

**More than 1,100 children live in a home where there is a male head-of-house only. And 839 children are being raised by grandparents.**

**Figure 33. Housing relationships in the Jefferson City School District, 2000 and 2010 Census data.**

Housing Relationships in the Jefferson City School District: 2000 and 2010 Census						
Subject	2010 Census		2000 Census		Change 2000 > 2010	% Change 2000 > 2010
	Number	Percent	Number	Percent		
HOUSEHOLD AND GROUP QUARTERS POPULATION						
Total population	71,991	100.0%	67,860	100.0%	4,131	6.1%
In households	67,009	93.1%	62,090	91.5%	4,919	7.9%
In group quarters	4,982	6.9%	5,775	8.5%	-793	-13.7%
▶ Institutionalized population	3,990	5.5%	5,045	7.4%	-1,055	-20.9%
Noninstitutionalized population	992	1.4%	730	1.1%	262	35.9%
HOUSEHOLD RELATIONSHIP						
Household population	67,009	100.0%	62,090	100.0%	4,919	7.9%
Householder	28,575	42.6%	16,935	27.3%	11,640	68.7%
Spouse [1]	13,675	20.4%	13,465	21.7%	210	1.6%
Child	19,017	28.4%	18,485	29.8%	532	2.9%
Under 18 years	15,154	22.6%	NA	NA	NA	NA
Grandchild	989	1.5%	570	0.9%	419	73.5%
Brother or sister	386	0.6%	375	0.6%	11	2.9%
▶ Parent	364	0.5%	250	0.4%	114	45.6%
Other relatives of householder	626	0.9%	380	0.6%	246	64.7%
▶ Nonrelatives of householder	3,377	5.0%	1,640	2.6%	1,737	105.9%
Roomer or boarder	162	0.2%	NA	NA	NA	NA
Housemate or roommate	656	1.0%	NA	NA	NA	NA
Unmarried partner	1,841	2.7%	NA	NA	NA	NA
Other nonrelatives	718	1.1%	NA	NA	NA	NA
HOUSEHOLD RELATIONSHIP FOR SELECTED AGE GROUPS						
Household population under 18 years	16,497	100.0%	NA	NA	NA	NA
Householder or spouse	5	0.0%	NA	NA	NA	NA
Child of householder	15,154	91.9%	NA	NA	NA	NA
In husband-wife family	10,194	61.8%	NA	NA	NA	NA
With female householder, no husband	3,768	22.8%	NA	NA	NA	NA
▶ With male householder, no wife present	1,192	7.2%	NA	NA	NA	NA
▶ Grandchild	839	5.1%	NA	NA	NA	NA
Other relatives	180	1.1%	NA	NA	NA	NA
Nonrelatives	319	1.9%	NA	NA	NA	NA
Household population 65 years and over	8,488	100.0%	NA	NA	NA	NA
Householder	5,901	69.5%	NA	NA	NA	NA
Family householder [2]	3,047	35.9%	NA	NA	NA	NA
Male	2,598	30.6%	NA	NA	NA	NA
Female	449	5.3%	NA	NA	NA	NA
Nonfamily householder [3]	2,854	33.6%	NA	NA	NA	NA
Male	732	8.6%	NA	NA	NA	NA
Living alone	682	8.0%	NA	NA	NA	NA
Female	2,122	25.0%	NA	NA	NA	NA
Living alone	2,073	24.4%	NA	NA	NA	NA
Spouse	2,138	25.2%	NA	NA	NA	NA
Parent	215	2.5%	NA	NA	NA	NA
Other relatives	128	1.5%	NA	NA	NA	NA
Nonrelatives	106	1.2%	NA	NA	NA	NA

X Not applicable.

[1] "Spouse" represents spouse of the householder. It does not reflect all spouses in a household. Responses of "same-sex spouse" were edited during processing to "unmarried partner."

[2] A household that has at least one member of the household related to the householder by birth, marriage, or adoption is a "Family household." The householder is termed a "family householder." All persons living in family households are included in this total regardless of their relationship to the householder. Same-sex couples are included in the nonrelatives category.

[3] "Nonfamily households" consist of people living alone and households which do not have any members related to the householder. The householder is termed a "nonfamily householder."

Consistently, rental housing has fewer children than owner-owned housing in national research for the last 20 years. It holds true also for the Jefferson City School District in 2010.

Home ownership took a big step backward in the district among all age groups that were families.

The difference between a family and household is that a family is made up of relatives and a household can be made up of non-relatives.

More than 4,400 households have no children in them.



Figure 34. Housing populations in the Jefferson City School District, 2000 and 2010 Census data.

Housing Populations in the Jefferson City School District: 2000 and 2010 Census						
Subject	2010 Census		2000 Census		Change 2000 > 2010	% Change 2000 > 2010
	Number	Percent	Number	Percent		
HOUSEHOLD POPULATION						
Occupied housing units	28,575	100.0%	25,925	100.0%	2,650	10.2%
Owner-occupied housing units	18,660	65.3%	17,205	66.4%	1,455	8.5%
Population in owner-occupied housing units	46,183	NA	NA	NA	NA	NA
▶Average household size of owner-occupied units	2.47	NA	NA	NA	NA	NA
Renter-occupied housing units	9,915	34.7%	8,720	33.6%	1,195	13.7%
Population in renter-occupied housing units	20,826	NA	NA	NA	NA	NA
▶Average household size of renter-occupied units	2.10	NA	NA	NA	NA	NA
HOUSEHOLD TYPE						
Owner-occupied housing units	18,660	100.0%	17,205	100.0%	1,455	8.5%
Family households [1]	13,717	73.5%	13,235	76.9%	482	3.6%
Householder 15 to 64 years	10,942	58.6%	13,340	77.5%	-2,398	-18.0%
Householder 65 years and over	2,775	14.9%	3,875	22.5%	-1,100	-28.4%
Husband-wife family	11,651	62.4%	11,690	67.9%	-39	-0.3%
Male householder, no wife present	618	3.3%	440	2.6%	178	40.5%
Female householder, no husband present	1,448	7.8%	1,110	6.5%	338	30.5%
▶Nonfamily households [2]	4,943	26.5%	3,965	23.0%	978	24.7%
Householder 15 to 64 years	3,147	16.9%	NA	NA	NA	NA
Householder 65 years and over	1,796	9.6%	NA	NA	NA	NA
Male householder	2,019	10.8%	NA	NA	NA	NA
Living alone	1,610	8.6%	NA	NA	NA	NA
65 years and over	403	2.2%	NA	NA	NA	NA
Living with others	409	2.2%	NA	NA	NA	NA
Female householder	2,924	15.7%	NA	NA	NA	NA
Living alone	2,597	13.9%	NA	NA	NA	NA
65 years and over	1,329	7.1%	NA	NA	NA	NA
Living with others	327	1.8%	NA	NA	NA	NA
Renter-occupied housing units	9,915	100.0%	8,720	100.0%	1,195	13.7%
Family households [1]	4,519	45.6%	3,705	42.5%	814	22.0%
Householder 15 to 64 years	4,247	42.8%	7,620	87.4%	-3,373	-44.3%
Householder 65 years and over	272	2.7%	1,100	12.6%	-828	-75.3%
Husband-wife family	2,024	20.4%	1,830	21.0%	194	10.6%
Male householder, no wife present	556	5.6%	445	5.1%	111	24.9%
Female householder, no husband present	1,939	19.6%	1,430	16.4%	509	35.6%
Nonfamily households [2]	5,396	54.4%	5,015	57.5%	381	7.6%
Householder 15 to 64 years	4,338	43.8%	NA	NA	NA	NA
Householder 65 years and over	1,058	10.7%	NA	NA	NA	NA
▶Householder Living Alone	4,478	45.2%	4,075	46.7%	403	9.9%
Male householder	2,617	26.4%	1,910	21.9%	707	37.0%
Living alone	2,093	21.1%	NA	NA	NA	NA
65 years and over	279	2.8%	NA	NA	NA	NA
Living with others	524	5.3%	NA	NA	NA	NA
Female householder	2,779	28.0%	2,165	24.8%	614	28.4%
Living alone	2,385	24.1%	NA	NA	NA	NA
65 years and over	744	7.5%	NA	NA	NA	NA
Living with others	394	4.0%	NA	NA	NA	NA

X Not applicable.

[1] A household that has at least one member of the household related to the householder by birth, marriage, or adoption is a "Family household." All persons living in family households are included in this total regardless of their relationship to the householder. Same-sex couple households are included in the family households category if there is at least one additional person related to the

householder by birth or adoption. Same-sex couple households with no relatives of the householder present are tabulated in nonfamily households. Responses of "same-sex spouse" were edited during processing to "unmarried partner."

[2] "Nonfamily households" consist of people living alone and households which do not have any members related to the householder.

**These projections were done by FinCo GeoDemographics, LLC, a firm headed by two accomplished professors of Geography at Oklahoma State University. The principal, Dr. Jon Comer, has authored 24 peer-reviewed research articles, received \$300,000 in research grants and has served as a board of directors of the Spatial Analysis and Modeling Specialty Group of the Association of American Geographers.**

## Summary

As noted in an enrollment projection report submitted to this district in 2010, making population or enrollment projections without the 2010 Census data in hand was challenging. Now that 2010 Census data are available, as well as the fall 2011 enrollment figures for the district, it is possible to both evaluate the projections made in 2010 (revised projections were subsequently provided to the district in November 2010 based on new fall 2010 enrollment figures) and to update them with the newly available information. This report is therefore not a mere revision of the 2010 report with new numbers simply replacing old, but instead an explanation of what significant new information is now available, a discussion how this impacts the new projections, and documentation of the new projections for the district from 2012 out to 2021, a ten-year projection horizon. However, as will be noted shortly, only projections out to 2015 are based entirely on data about the population currently living in the district (as of April 2010, the date of the Census); after 2015, even stronger assumptions must be made about the source of new students than is the case for projections up through 2015.

The most notable new piece of information is Kindergarten enrollment in fall 2011. A year ago, when the most recent projections were completed, an astonishing 818 Kindergarteners had enrolled in the district in September 2010. The previous five years' enrollments were 732 (2009), 653 (2008), and 632 each in the year 2007, 2006, and 2005. This jump, combined with American Community Survey estimates of steady growth in Jefferson City since 2004 and Cole County through virtually the entire decade from 2000 to 2010, led to an assumption of future Kindergarten totals of over 800 and growing steadily into the future. This proved not to be the case in September 2011 as just 708 Kindergarteners enrolled, fewer even than in 2009.

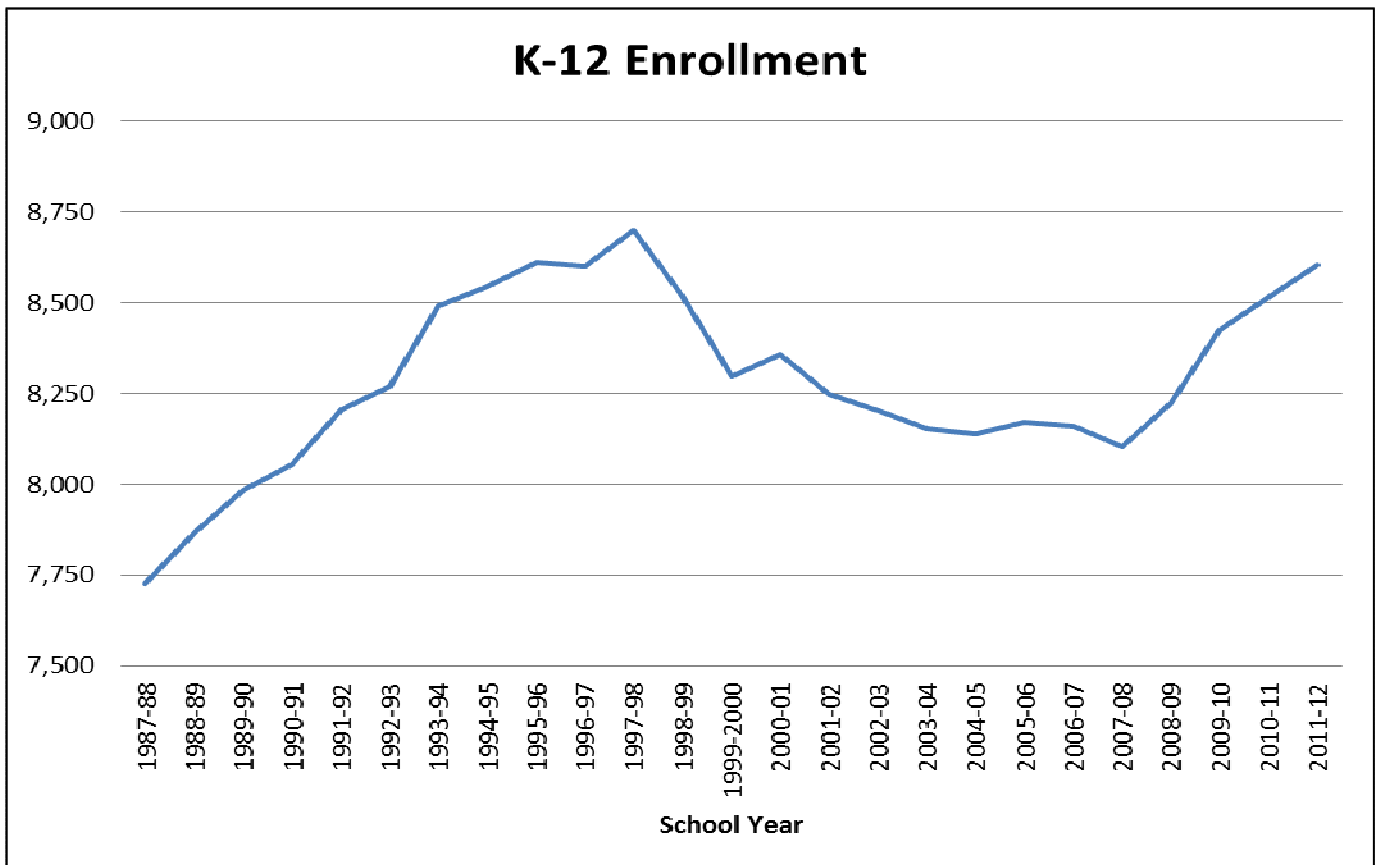
Additionally, the 2010 Census age cohort breakdowns point to another one-year bump possibly occurring next year (2012). The following table shows the population of children aged 5 and younger in the district from the Census (as of April, 2010) and the year they would be expected to enter Kindergarten as a group:

Age	5 years old	4 years old	3 years old	2 years old	1 year old	< 1 year
Entering K	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	Fall 2015
Number	959	968	1,018	964	961	929

Thus, assuming 5 year-olds in April 2010 entered Kindergarten in fall 2010 (818 of 959, at least), this year's cohort of Kindergarteners came from the 4 year-olds (708 out of 968). Thus, fall 2012 could see a modest uptick based on over 1,000 3 year-olds living in the district at the time of the Census entering Kindergarten that year. Afterwards, a downward trend could occur as seen from the next three groups. Of course, this ignores migration, child mortality, private schooling, and the like, but this is the most firm information at hand.

The second significant piece of new information is the overall district enrollment in fall 2011, providing another year's information to add to recent trends. Overall, compared to the data used a year ago, the district witnessed another year of moderate growth. Though the district continues on an upward trajectory compared to the decade from 1997-98 through 2007-08, the growth of the last two years has been somewhat slower than the preceding two years. In 2008 the district increased by 118 students over the previous year and in 2009 it grew by another 200 students. In 2010, however, the growth was 92 students and this year it has been 88 students based on September 2011 numbers.

**Figure 35. Births in the Jefferson City School District.**



Because of the inconsistent nature of enrollment growth over the past 25 years, the lack of predictability in parental migration, private school, or home schooling choices, and historically poor match between district births and Kindergarten enrollments five years later (as was noted in the 2010 report), Jefferson City remains one of the most difficult districts to model in the experience of this analyst. District personnel were unable to explain the decline of enrollments from 1997-98 through 2007-08, a period in which population of the district does not seem to have been similarly declining, and so the analysts can only make assumptions about the district based on publicly available Census data and enrollments provided.

### **Evaluation of Projections Provided in 2010**

The analyst as a matter of practice provides three sets of enrollment projections out to ten years beyond present: high, medium, and low. Although this could be thought of as system with a “most likely” outcome (medium) with confidence intervals or a boundary envelope (high and low), it is really meant to provide three distinct trajectories that districts can evaluate based on their first-hand knowledge and experience. It is up to each district to evaluate the three models and base its planning on which model seems most feasible in that time and place.

However, the first interpretation listed above could have certainly applied to the projections provided to the district in 2010. The total enrollment estimate for 2011 for the medium model was 8,610, whereas the district currently has 8,603 students. However, while the district total was relatively accurate, some grade-level estimates were not as accurate. This mostly occurred due to high Kindergarten estimates based on the fall 2010 jump and expectations that enrollments over 800 Kindergarteners per year would become the norm in the district.

Figure 36, on p. 39, compares the three projections for the 2011-12 school year as projected in 2010 alongside actual 2011 enrollments. As can be seen, all Kindergarten enrollments were overestimated by at least 100 due to the influence of 2010 Kindergarten enrollments. This drove estimates for other grades lower, and notably the 4<sup>th</sup>, 6<sup>th</sup>, and 8<sup>th</sup> grades were all underestimated by the models (and 2<sup>nd</sup> graders and high school seniors, to a lesser extent).

<u>Grade</u>	<b>2011 enrollments</b>			<u>Actual</u>	<b>Differences</b>		
	<u>High</u>	<u>Medium</u>	<u>Low</u>		<u>High</u>	<u>Medium</u>	<u>Low</u>
K	<b>835</b>	<b>822</b>	<b>809</b>	708	<b>127</b>	<b>114</b>	<b>101</b>
1	805	802	799	788	17	14	11
2	694	691	689	707	-13	-16	-18
3	674	671	669	670	4	1	-1
4	632	630	627	654	-22	-24	-27
5	629	627	624	625	4	2	-1
6	587	585	583	629	-42	-44	-46
7	605	603	601	603	2	0	-2
8	572	570	568	596	-24	-26	-28
9	707	704	702	705	2	-1	-3
10	735	732	730	730	5	2	0
11	623	620	618	620	3	0	-2
12	554	552	550	568	-14	-16	-18
Totals	8651	8610	8569	8603	48	7	-34

**Figure 36, above, compares 2011-12 projections with 2011 actual enrollments. Figure 37, below, projections changing Kindergarten enrollment to 708 in 2011.**

A simple reevaluation of last year's estimates, changing only the number of projected Kindergarteners to the known 2011 total of 708, produces the following comparisons:

<u>Grade</u>	<b>2011 enrollments</b>			<u>Actual</u>	<b>Differences</b>		
	<u>High</u>	<u>Medium</u>	<u>Low</u>		<u>High</u>	<u>Medium</u>	<u>Low</u>
K	708	705	701	708	0	-3	-7
1	818	814	810	788	30	26	22
2	705	702	699	707	-2	-5	-8
3	685	681	678	670	15	11	8
4	642	639	636	654	-12	-15	-18
5	639	636	633	625	14	11	8
6	596	593	591	629	-33	-36	-38
7	615	612	609	603	12	9	6
8	582	579	576	596	-14	-17	-20
9	718	715	711	705	13	10	6
10	747	743	740	730	17	13	10
11	633	630	627	620	13	10	7
12	563	560	557	568	-5	-8	-11
Totals	8651	8610	8569	8603	48	7	-34



Locking in the known number of 2011 Kindergarteners has the effect of redistributing the expected district totals of 8,651 (high), 8,610 (medium), and 8,569 (low) across all the different grades, but overall only the 1<sup>st</sup> and 6<sup>th</sup> grades demonstrate differences of more than 20 students per grade between the model projections and the known enrollments for fall 2011.

The models upon which the projections of a year ago were based were as follows. High projections were based on a cubic model using enrollments back to 1986 (25 years), medium projections were based on a quadratic model using enrollments back to 1999 (12 years), while low projections were based on a linear model using enrollments back to 2003 (8 years). These models did not fit the district's enrollment patterns as well as the analyst has seen in other districts, as the trend evident in the enrollment figure given earlier is quite atypical in the experience of the analyst. However, the best models available at the time were chosen for making the projections as of fall 2010. As was noted in the 2010 report, the projections are very sensitive to estimates of incoming Kindergarten classes and as such, while overall district enrollment projections were quite accurate (especially the medium model), individual grade totals were skewed by the overly large (over 800) estimates of future Kindergarten classes. Hopefully this situation has been avoided with the new projections contained in this report, but only time will tell as each new year's Kindergarten cohort enrolls in the fall.

## **New Projections Incorporating Fall 2011 Enrollments and 2010 Census Data**

A significant change in methodology from projections provided one year ago is that more focused Kindergarten enrollment projections are made through 2015. Overall, the district enrolls slightly under 73% of the school-age population living within the district based on 2010 Census population values for each age 5-17 (Kindergarten through 12<sup>th</sup> grade students, based on the typical age of most students when they enter school in August of each year). Each age varies somewhat, from a high of 82.9% of 15 year-olds (10<sup>th</sup> graders) in the district to a low of 61.6% of 17 year-olds (12<sup>th</sup> graders). This last number is not surprising in light of early graduations and dropouts. Furthermore, the district average of 72.8% matriculation has been very consistent for the district's current elementary school population (grades K-5) and is applied to the upcoming classes of Kindergarteners based on the populations shown in the population table given earlier in this report. Thus, all models start with base estimates of about 740 Kindergarteners in 2012 (based on an estimated population of 1,018 three year-olds in

the Census in 2010 who will be 5 years old in 2012), about 710 Kindergarten in 2013 (based 964 two year-olds in 2010), about 720 Kindergarten in 2014 (based on 961 one year-olds), and just over 700 Kindergarten in 2015 based on 929 infants in the Census. Actual estimates for each model are the result of proportional adjustments based on the high, medium, and low models (which also capture in-migration). After 2015, lacking firm information on births after 2010, the models progressively grow the Kindergarten classes at high, medium, and low growth rates along with all other grades in the last five years of the projection horizon.

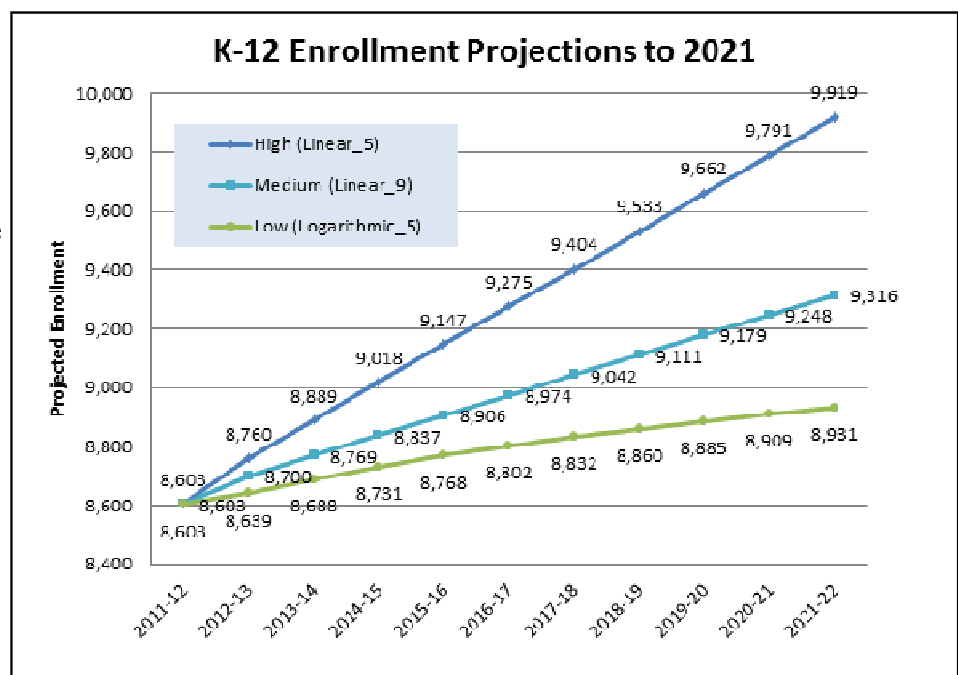
A reanalysis using fall 2011 enrollment figures is thus conducted and, after evaluating several possible models and time periods, the range of models is limited to linear and logarithmic models and the analyses only use district enrollment data back to either 2007 or 2003. Attempting to model the district with enrollment data earlier than 2003 is simply too uncertain given the overall pattern of district enrollments since the mid-1980s.

The linear growth model takes the functional form  $Y=b_0+b_1t$  and the logarithmic growth model takes the functional form  $Y=b_0+(b_1*\ln(t))$ , where the  $b$  values are intercept ( $b_0$ ) and slope coefficients ( $b_1$ ) and  $t$  is a sequence (time) indicator, with values of  $b_i$  differing between the models. The linear model simply multiplies the time indicator by the slope coefficient while the logarithmic model multiplies the natural logarithm ( $\ln$ ) of time by the slope coefficient.

A linear model based on the period 2007-11 thus produces the highest enrollment projections for the district (Linear\_5), a linear growth model for the period 2003-11 produces intermediate projections (Linear\_9), and a logarithmic model for the period 2007-11 provides a low-end set of projections (Logarithmic\_5). These three models are shown in Figure 2.

For comparison purposes, the projections provided a year ago estimated that fall 2012 enrollments would be 8,807 (high), 8,732 (medium),

**Figure 38. High, medium and low-growth models in the Jefferson City School District, 2011-21.**



and 8,610 (low), whereas new projections for fall 2012 are 8,760 (high), 8,700 (medium), and 8,639 (low). The high and medium projections are somewhat lower in the reanalysis, whereas the low projections are a bit higher because the old low growth model was flatter in the first five years of the projections than the new low growth model.

At the other end of the projection horizon, the projections provided a year ago estimated that fall 2020 enrollments would be 11,628 (high), 10,280 (medium), and 8,938 (low), whereas new projections for fall 2020 are 9,791 (high), 9,248 (medium), and 8,909 (low), all lower than the projections that were made a year ago. The two low models (old and new), though, nearly converge as the new low model flattens out in the latter five years being a logarithmic model. For comparative purposes, actual population growth between 2000 and 2010 was 6.1% in the district, 8.7% in Jefferson City, and 6.4% in Cole County. Meanwhile, the low projection represents 3.8% growth over a decade, the medium model 8.3%, and the high model 15.3%.

The high projections are still not considered likely but are an upper bound in case Kindergarten enrollments and overall district growth prove to be extremely healthy. Nonetheless, another year of enrollment data, a significant decline of over 100 Kindergarteners between fall 2010 and 2011, and new Census data showing a gradual decline in numbers of children in the district from ages 3-0 in 2010 all result in more modest estimates of future enrollments. The difference between old and new model projections for 2012 are 47 (high), 31 (medium), and 29 (low) fewer students in the new models. In 2020, the differences are really noticeable as the new high model projects over 1,800 fewer students than the old high model, the new medium model projects over 1,000 fewer students, while the new low model has only 28 fewer students in 2020 than the old low model. Unless the Census data are significantly in error, in-migration significantly increases, or fertility rates of the resident population noticeably increase, it is difficult to find evidence in the data that the district will experience excessively high growth in enrollments and a gain of between 500-1,000 students over the coming decade (50 or 100 new students per year) seems the most likely outcome based on current data (note that the medium model predicts an increase of 713 students by 2021-22, or 8.3% growth as noted earlier).

As with past modeling, grade-level estimates across the district are based on the three aforementioned models. A standard cohort progression model provides an estimate of each year's basic enrollment assuming steady-state trends, which are then adjusted by the varying growth rates represent-

ed by the high, medium, and low growth models evinced above. Finally, K-8 enrollments must be divided across various schools in their current configurations. Current proportions of students at each of the eleven elementary schools at any given grade level K-5 and both of the middle schools' grades 6-8 are assumed to remain in effect, lacking any other sound source of information except the last four years' enrollment figures.

Although ninth graders are actually located at the Simonsen Center, they are simply treated as high school students in ninth grade to reduce the need for an extra table and graph in the spreadsheet for that grade. Likewise, any students in grades 9-12 who are actually attending classes at the Jefferson City Academic Center (JCAC) are allocated to their respective grades at the high school.

In order to facilitate future planning by the district, the submitted spreadsheet breaks down the three projection models by grade ("Summaries by Grade") and by school ("Summaries by School"). The basic projection methods and results are on a separate tab ("District") and the individual school charts are likewise available ("Charts").

## **Conclusion**

The results presented in this report and the comparisons to the report submitted in 2010 highlight the challenges in estimating school enrollments for most school districts, but especially one such as Jefferson City that has non-linear historical enrollment trends, poor correlations between births and Kindergarten enrollments five years later, variable matriculation rates of eligible school-age populations in the district (as noted earlier, between 61.6% and 82.9%, with a district average of 72.8%), and declining school enrollments (between 1997 and 2007) when the overall population in the district was almost certainly growing.

A year ago, with another healthy gain in total students (from 8,423 in fall 2009 to 8,515 in fall 2010), and a huge increase in Kindergarteners (from 732 to 818 for the same two years), led to optimism that the district was on a strong upward trend. While the district grew again this year by nearly the same number of students (from 8,515 to 8,603, or 88 students compared to 92 last year), most of the gains resulted from growth in the same grade from last year to this year, offset by the huge decline in the number of Kindergarteners (or, alternatively, a return to more representative Kindergarten enrollments). Another small bump in Kindergarteners could occur next year (fall 2012) based on Census tallies of 3 year-olds

living in the district in 2010, but even so this district has not shown a strong correlation between births and Kindergarten enrollments. Thus, the sizes of incoming Kindergarten classes continue to be the primary influence on the accuracy of projection models.

Another factor that has not been satisfactorily explained is the annual increase of around 50 new students in 9<sup>th</sup> grade compared to that age cohort's size as 8<sup>th</sup> graders in the district the year before. It is assumed that this jump is caused by previously private- or home-schooled students switching to public school either because the private schools end at 8<sup>th</sup> grade or these students wish to partake of athletic (sports teams), academic (advanced placement or college-bound courses), or artistic (band, orchestra, chorale) opportunities only afforded by a large public high school. This "freshman 50" has been evident at least since 2007 and if it were to suddenly stop then future projections of freshman classes would be affected as the models all incorporate this bump in some fashion.

Finally, as noted in the 2010 report, the reasons for the district matriculating just 72.8% of the eligible school-age population relate primarily to private and home schooling, phenomena which have always proven challenging to not only model but to even document or track in the experience of the analysts. Likewise, birth rates fluctuate with the economy and are very hard to predict. Neither the district nor the analysts have much ability to anticipate short-term changes in these influences on district populations and thus enrollments.

## **Model Details**

The statistical information, especially goodness-of-fit statistics ( $r^2$ , F), the intercept  $b_0$  (constant) and slope  $b_1$  and  $b_2$  (Case Sequence) parameters, the standard errors, and the functional forms of the models used, are provided below.

### **High growth profile**

The high growth profile is based on a linear model fit to enrollment trends in the K-12 grades of the district for the period 2007 to 2011. The functional form of this model is:

$$Y = b_0 + b_1 t$$



**Model Summary**

R	R Square	Adjusted R Square	Std. Error of the Estimate
.988	.977	.969	36.471

**ANOVA**

	Sum of Squares	df	Mean Square	F	Sig.
Regression	165894.400	1	165894.400	124.720	.002
Residual	3990.400	3	1330.133		
Total	169884.800	4			

**Coefficients**

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
Case Sequence	128.800	11.533	.988	11.168	.002
(Constant)	7987.400	38.251		208.815	.000

### Medium growth profile

The medium growth profile is based on a linear model fit to enrollment trends in the K-12 grades of the district for the period 2003 to 2011. The functional form of this model is:

**Model Summary**

R	R Square	Adjusted R Square	Std. Error of the Estimate
.859	.739	.701	101.734

**ANOVA**

	Sum of Squares	df	Mean Square	F	Sig.
Regression	204633.600	1	204633.600	19.772	.003
Residual	72448.622	7	10349.803		
Total	277082.222	8			

**Coefficients**

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
Case Sequence	58.400	13.134	.859	4.447	.003
(Constant)	7984.444	73.908		108.032	.000

$$Y = b_0 + b_1 t$$

#### Low growth profile

The low growth profile is based on a logarithmic model fit to enrollment trends in the K-12 grades of the district for the period 2007 to 2011. The functional form of this model is:

$$Y = b_0 + (b_1 * \ln(t))$$

**Model Summary**

R	R Square	Adjusted R Square	Std. Error of the Estimate
.981	.963	.951	45.636

**ANOVA**

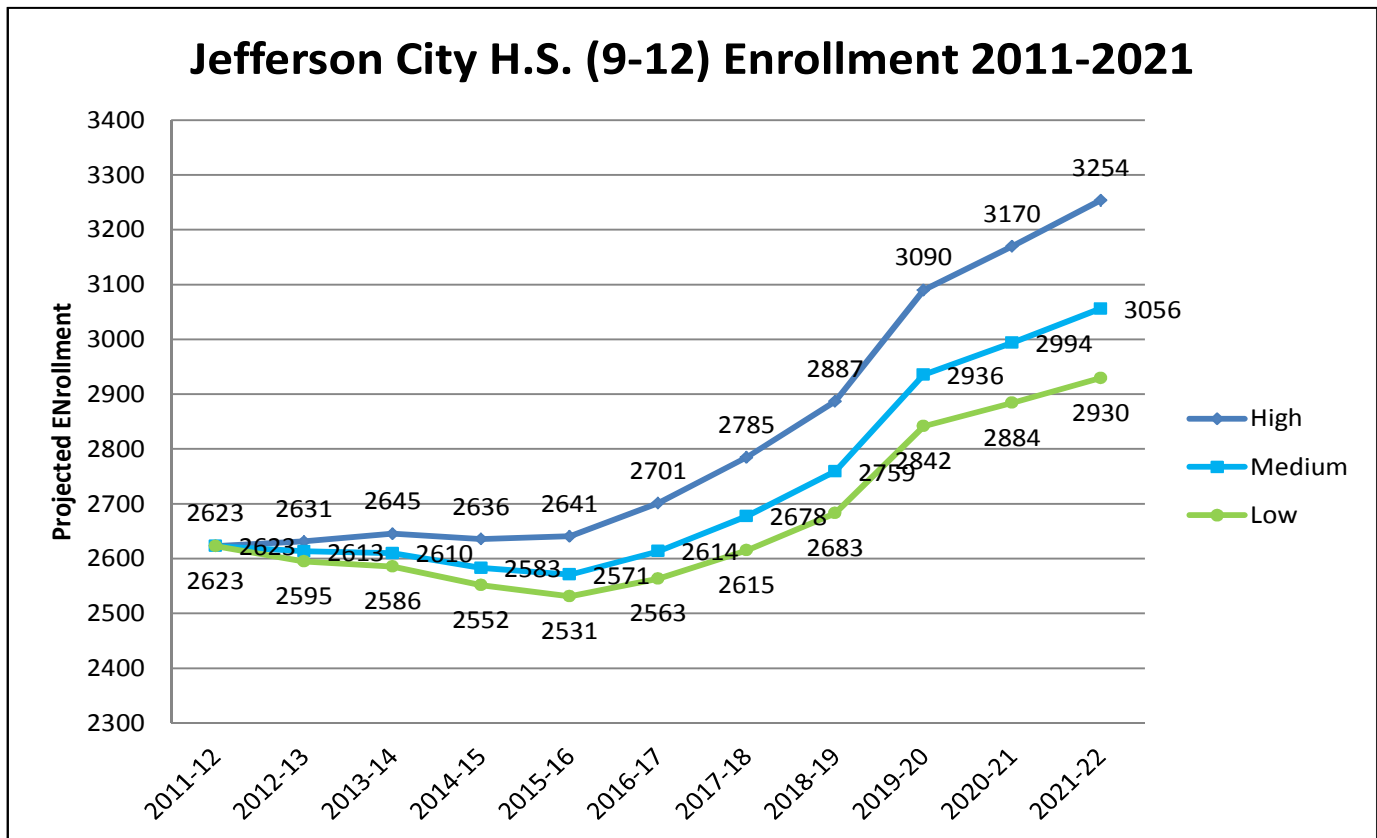
	Sum of Squares	df	Mean Square	F	Sig.
Regression	163636.753	1	163636.753	78.570	.003
Residual	6248.047	3	2082.682		
Total	169884.800	4			

**Coefficients**

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
ln(Case Sequence)	318.265	35.905	.981	8.864	.003
(Constant)	8069.062	39.981		201.823	.000

PAGE DELIBERATELY LEFT BLANK

**Figure 39. Enrollment projections for the Jefferson City High School, 2011-2021.**



**Figure 40. Enrollment projections for Lewis & Clark Middle School, 2011-2021.**

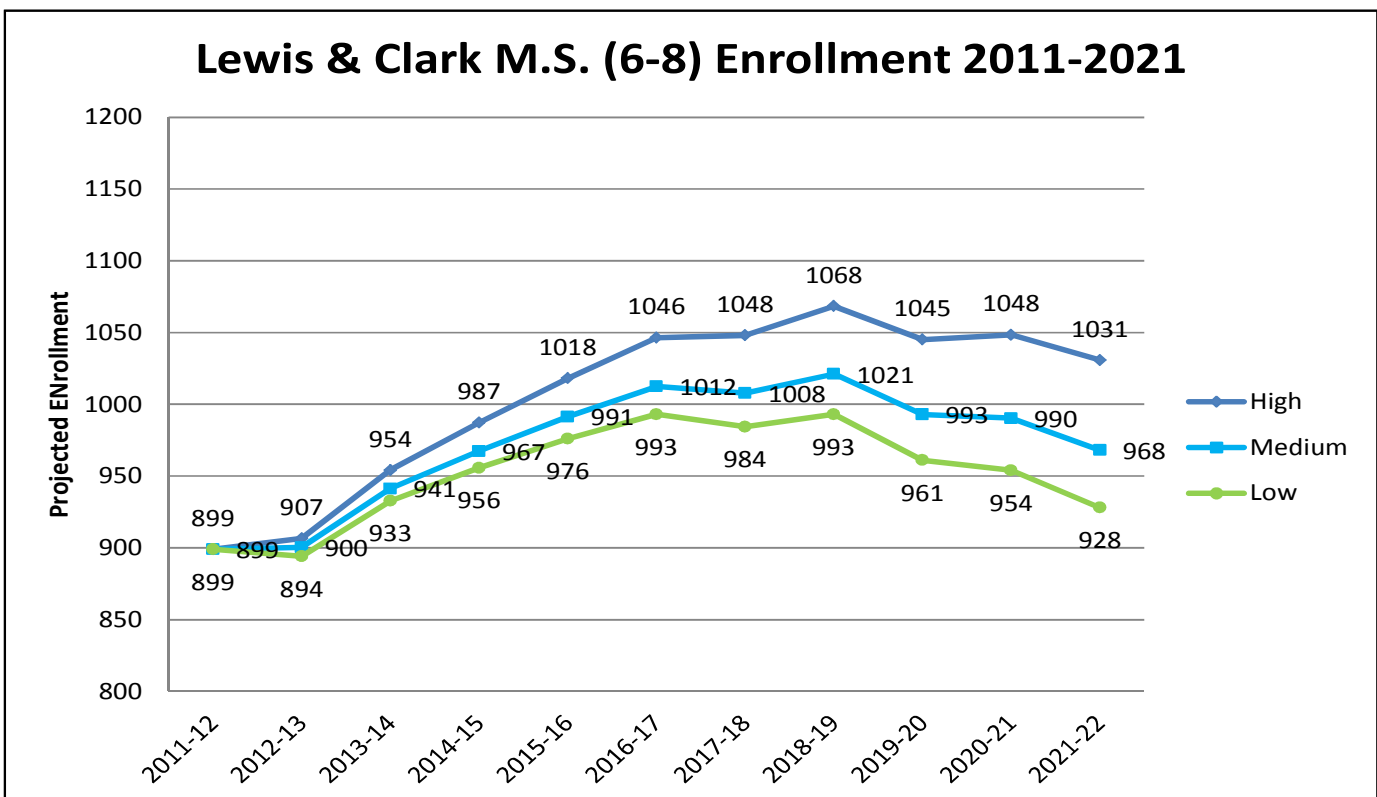


Figure 41. Enrollment projections for Thomas Jefferson Middle School, 2011-2021.

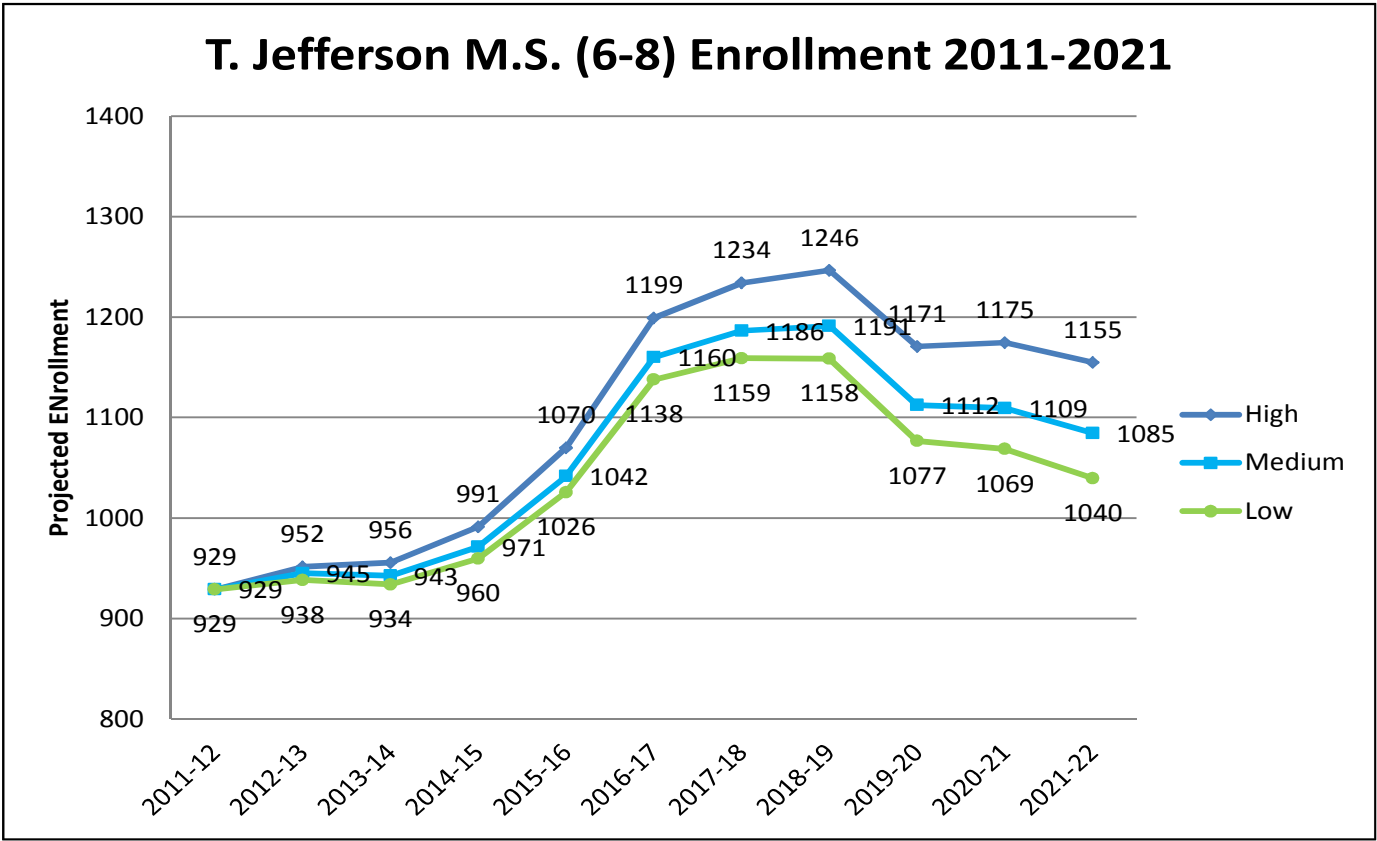
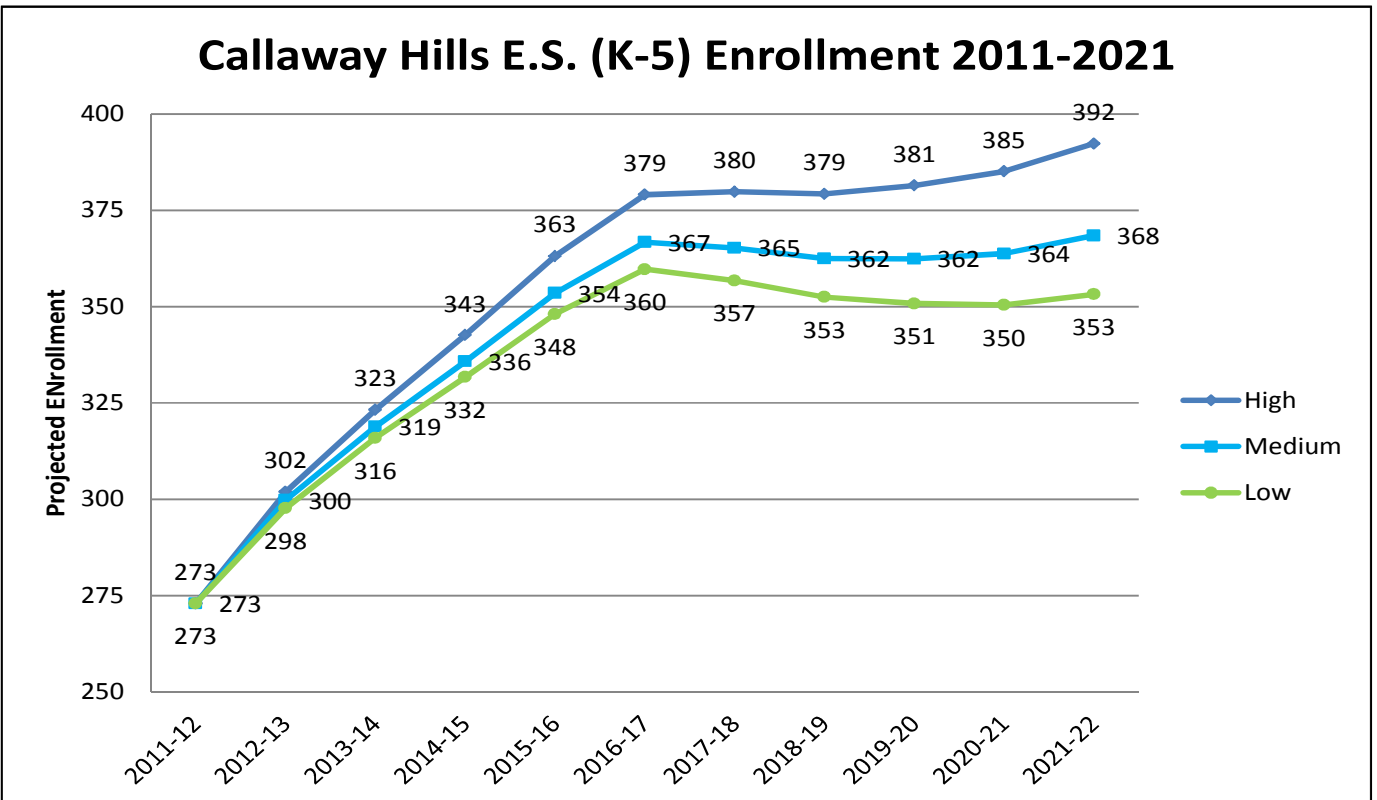
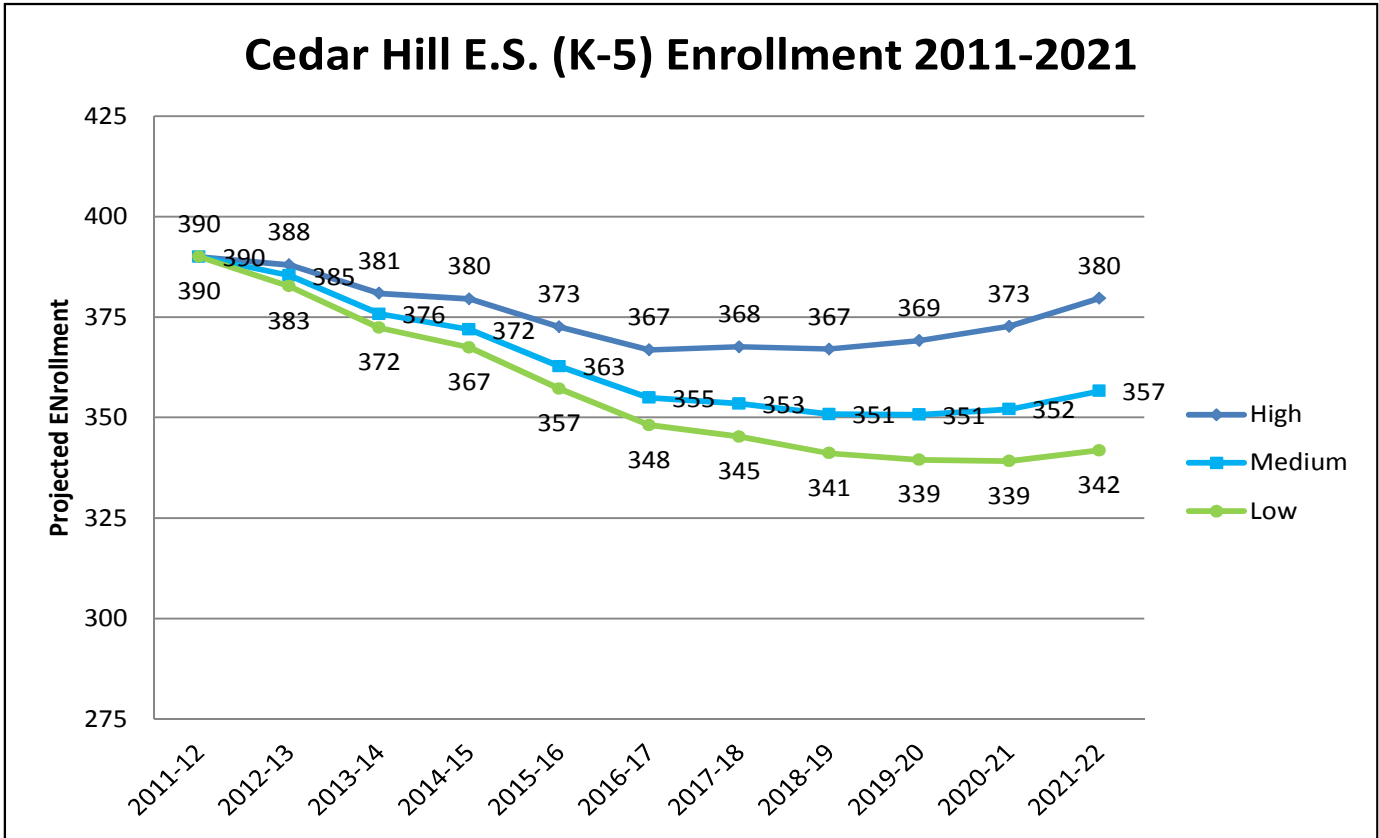


Figure 41. Enrollment projections for Callaway Elementary School, 2011-2021.



**Figure 42. Enrollment projections for Cedar Hill Elementary School, 2011-2021.**



**Figure 43. Enrollment projections for East Elementary School, 2011-2021.**

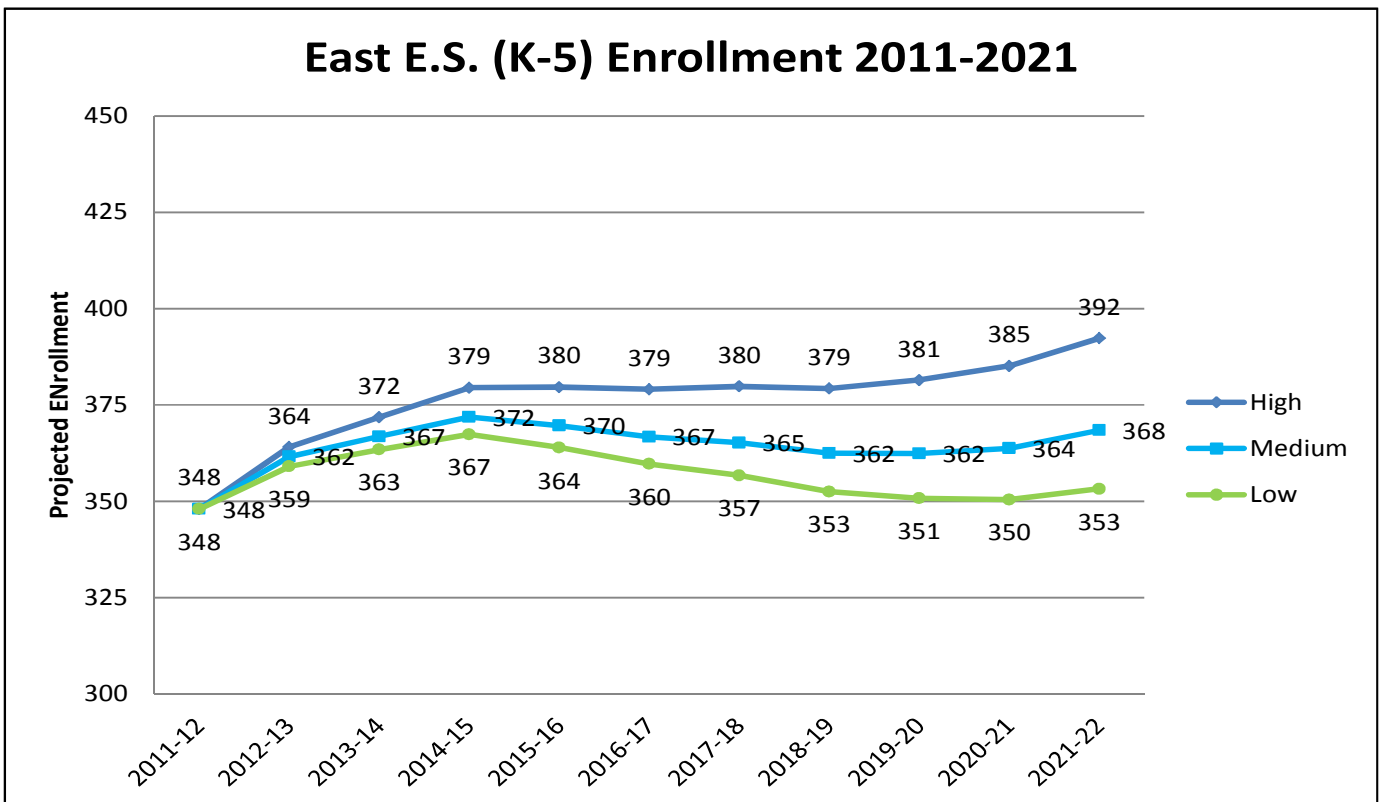




Figure 44. Enrollment projections for Moreau Heights Elementary School, 2011-2021.

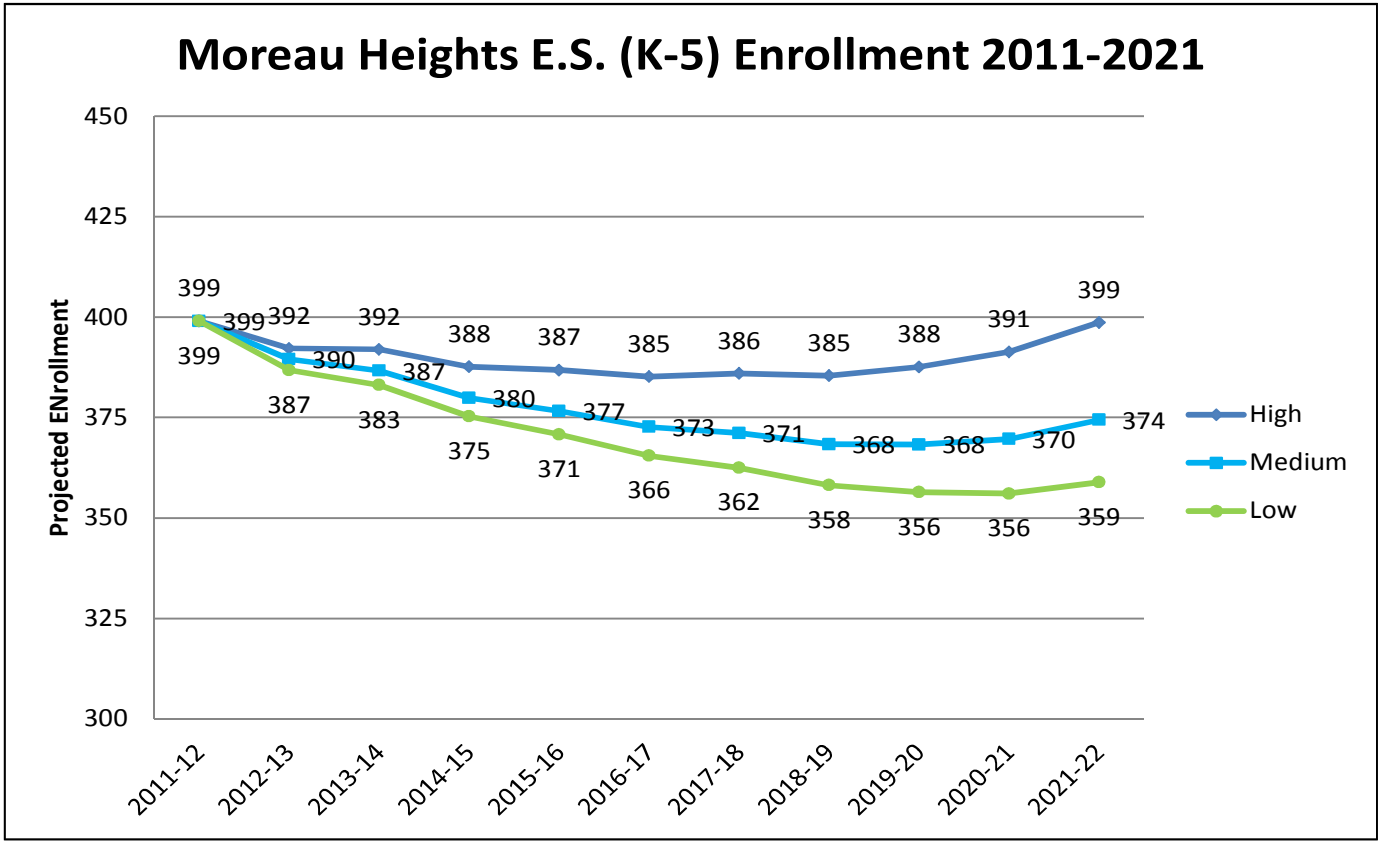
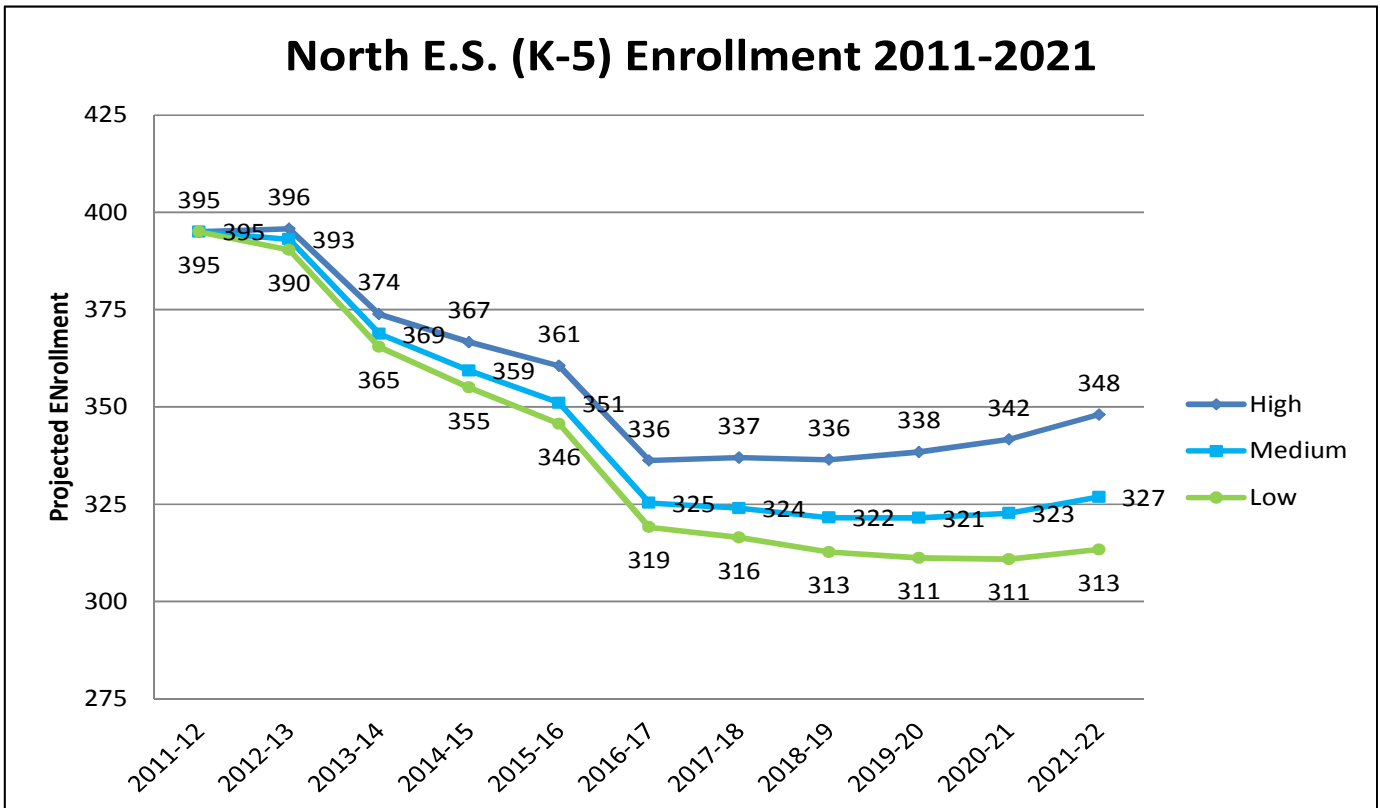
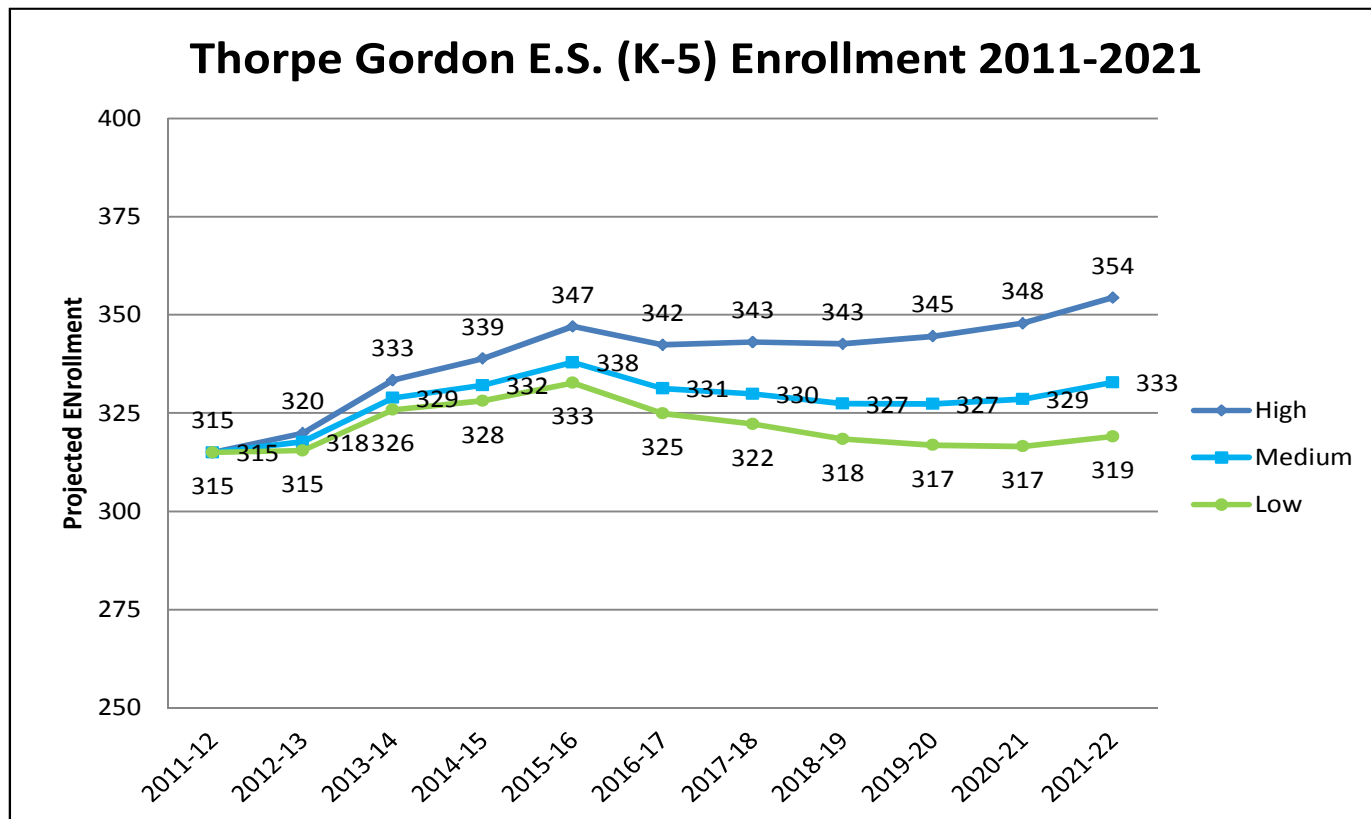


Figure 45. Enrollment projections for North Elementary School, 2011-2021.



**Figure 46. Enrollment projections for Thorpe Gordon Elementary School, 2011-2021.**



**Figure 47. Enrollment projections for Belair Elementary School, 2011-2021.**

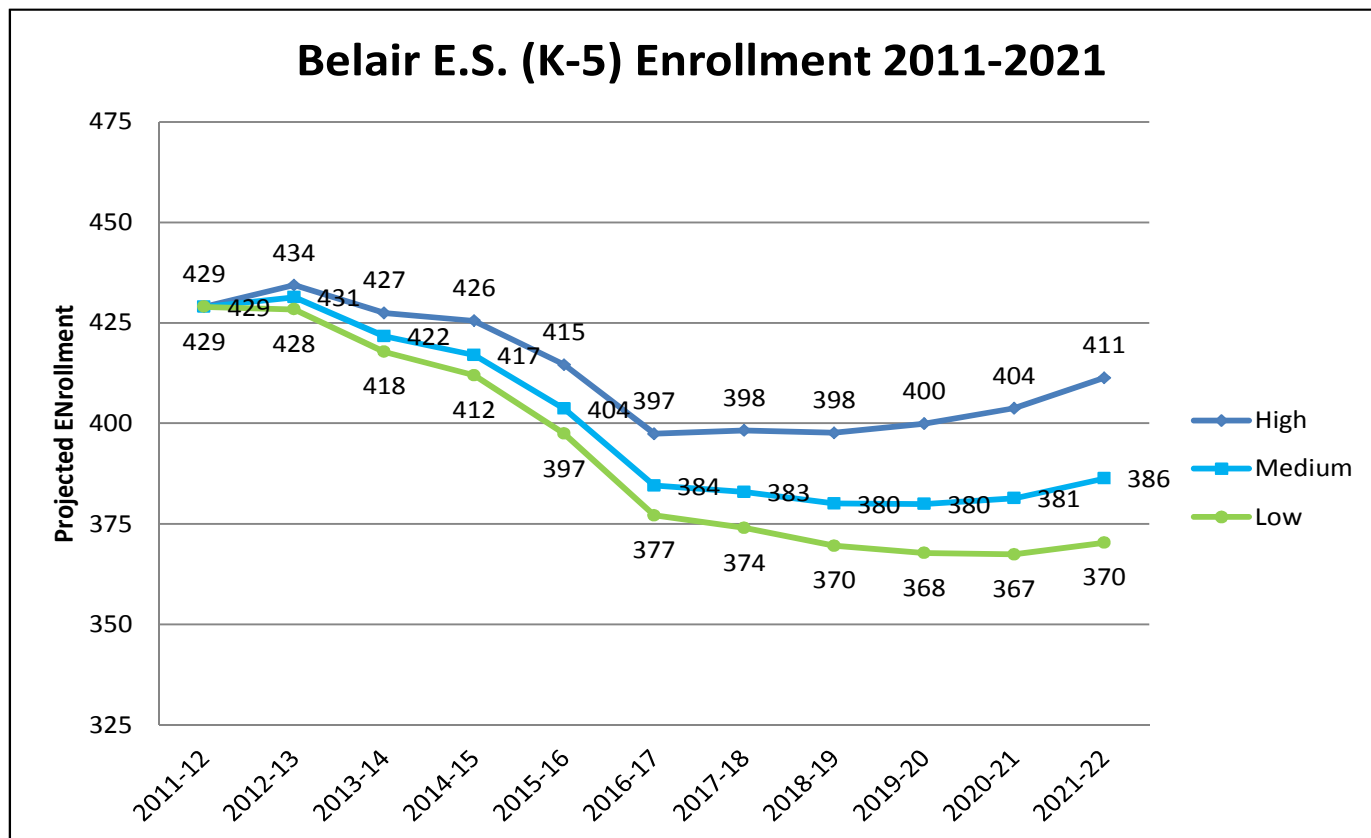


Figure 48. Enrollment projections for Lawson Elementary School, 2011-2021.

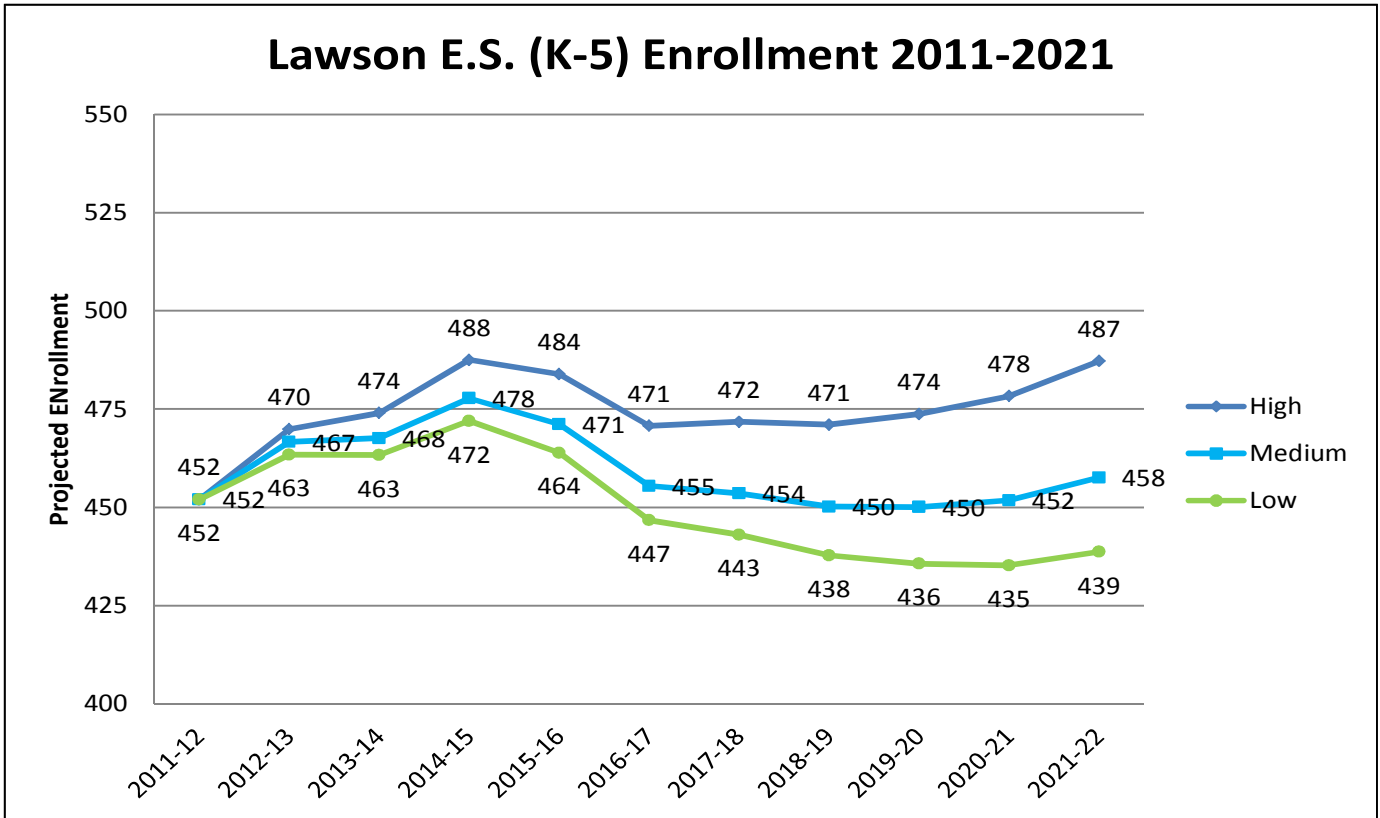
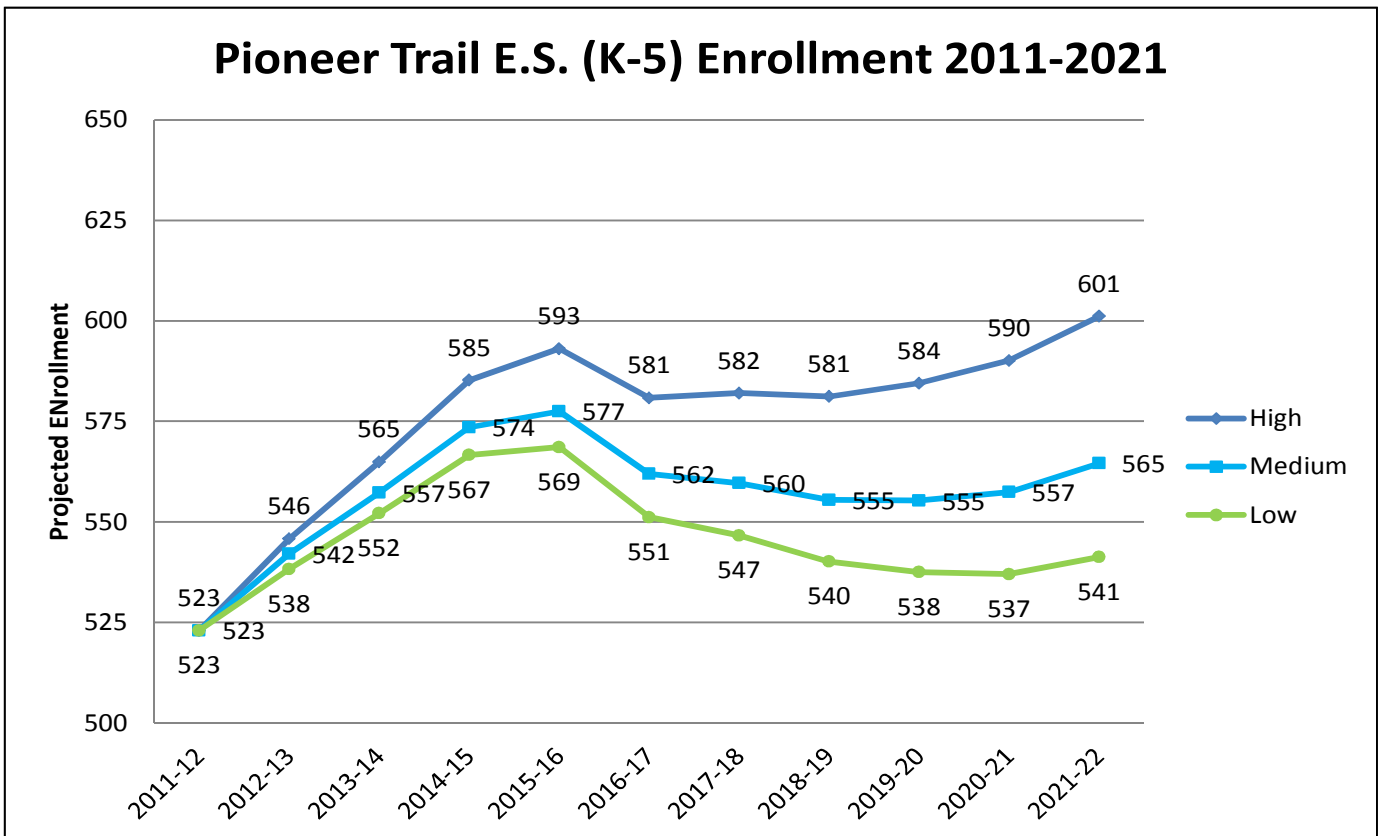
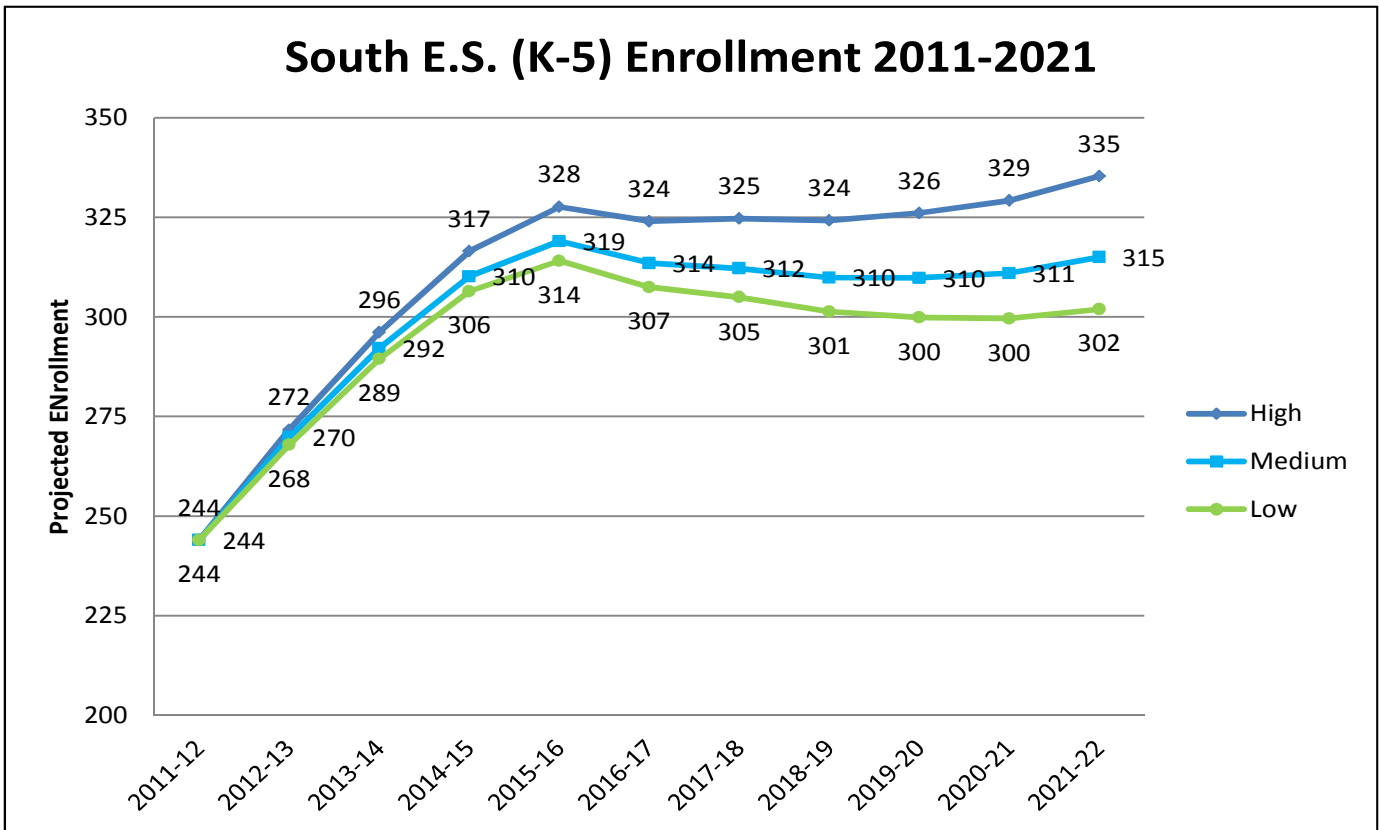


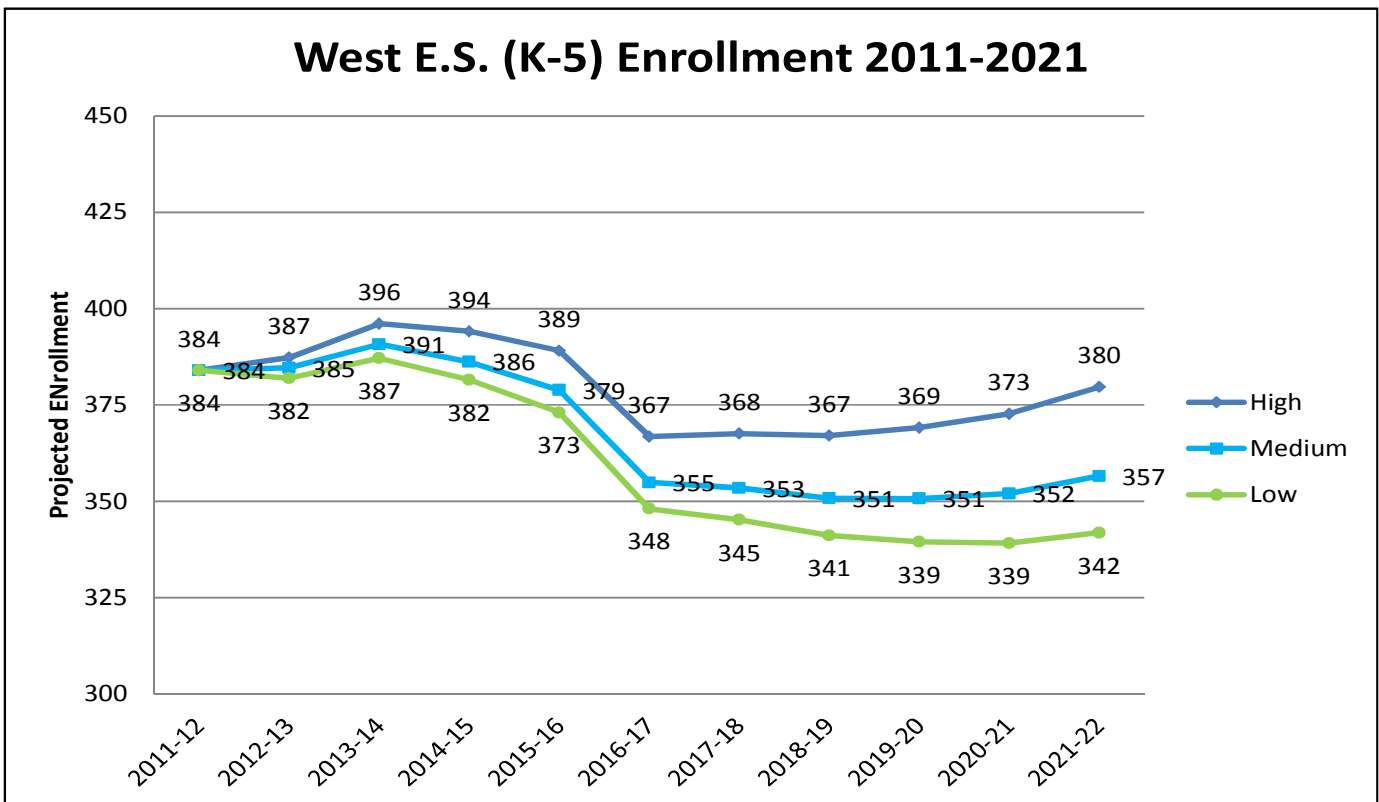
Figure 49. Enrollment projections for Pioneer Trail Elementary School, 2011-2021.



**Figure 50. Enrollment projections for South Elementary School, 2011-2021.**



**Figure 51. Enrollment projections for West Elementary School, 2011-2021.**



PAGE DELIBERATELY LEFT BLANK

**Figure 52. Enrollment projections by grade in the Jefferson City School District, 2012-2022.**

Enrollment Projections for the Jefferson City School District, 2012-2021, by Grade											
District	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
High	8,603	8,760	8,889	9,018	9,147	9,275	9,404	9,533	9,662	9,791	9,919
Medium	8,603	8,700	8,769	8,837	8,906	8,974	9,042	9,111	9,179	9,248	9,316
Low	8,603	8,639	8,688	8,731	8,768	8,802	8,832	8,860	8,885	8,909	8,931
High	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
K	708	744	711	718	704	733	737	743	747	754	764
1	788	698	726	699	709	686	715	721	725	732	742
2	707	794	708	739	712	716	694	724	729	736	745
3	670	711	799	715	749	714	719	697	727	735	744
4	654	677	720	817	730	758	724	729	707	740	749
5	625	647	670	715	815	720	749	717	721	701	736
6	629	631	658	690	732	828	733	763	729	736	718
7	603	633	626	662	695	729	826	733	761	730	739
8	596	594	626	627	660	688	723	820	726	757	728
9	705	657	658	693	696	727	757	797	903	802	839
10	730	719	667	677	711	708	740	772	812	923	822
11	620	695	688	638	650	677	673	706	735	775	884
12	568	561	632	629	583	590	614	612	641	669	708
Medium	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
K	708	739	702	704	685	709	709	710	710	713	718
1	788	693	716	685	690	664	688	689	689	692	696
2	707	788	698	725	693	693	667	692	693	695	700
3	670	706	788	700	729	691	691	667	691	694	698
4	654	672	710	801	710	734	696	697	672	699	704
5	625	643	661	701	793	697	720	685	685	662	691
6	629	626	649	676	713	801	705	729	693	695	674
7	603	629	617	649	677	705	795	700	723	690	694
8	596	590	618	614	643	666	695	783	690	715	684
9	705	652	649	679	678	703	728	762	858	758	788
10	730	714	658	663	692	685	712	738	771	871	772
11	620	690	679	625	633	655	647	675	698	732	831
12	568	557	624	616	568	570	590	585	609	632	665
Low	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
K	708	734	695	696	675	695	692	690	687	686	688
1	788	688	709	677	679	651	672	670	667	666	668
2	707	783	692	716	683	680	651	673	671	670	671
3	670	701	781	692	718	678	675	648	669	668	670
4	654	667	704	791	699	720	680	678	650	673	675
5	625	638	655	692	781	684	703	666	663	638	663
6	629	622	643	668	702	786	689	709	671	670	646
7	603	624	612	641	666	692	776	681	700	665	666
8	596	586	612	607	633	653	679	762	668	688	656
9	705	648	643	671	667	690	711	741	830	730	755
10	730	709	652	655	682	672	695	717	746	840	740
11	620	685	673	617	623	642	632	656	676	706	796
12	568	553	618	609	559	559	577	569	589	609	638



Figure 53. Enrollment projections by building in the Jefferson City School District, 2012-2022.

Enrollment Projections for the Jefferson City School District, 2012-2021, by Building											
District	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
High	8,603	8,760	8,889	9,018	9,147	9,275	9,404	9,533	9,662	9,791	9,919
Medium	8,603	8,700	8,769	8,837	8,906	8,974	9,042	9,111	9,179	9,248	9,316
Low	8,603	8,639	8,688	8,731	8,768	8,802	8,832	8,860	8,885	8,909	8,931
High School	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
High	2,623	2,631	2,645	2,636	2,641	2,701	2,785	2,887	3,090	3,170	3,254
Medium	2,623	2,613	2,610	2,583	2,571	2,614	2,678	2,759	2,936	2,994	3,056
Low	2,623	2,595	2,586	2,552	2,531	2,563	2,615	2,683	2,842	2,884	2,930
L&C M.S.	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
High	899	907	954	987	1,018	1,046	1,048	1,068	1,045	1,048	1,031
Medium	899	900	941	967	991	1,012	1,008	1,021	993	990	968
Low	899	894	933	956	976	993	984	993	961	954	928
TJ M.S.	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
High	929	952	956	991	1,070	1,199	1,234	1,246	1,171	1,175	1,155
Medium	929	945	943	971	1,042	1,160	1,186	1,191	1,112	1,109	1,085
Low	929	938	934	960	1,026	1,138	1,159	1,158	1,077	1,069	1,040
Callaway	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
High	273	302	323	343	363	379	380	379	381	385	392
Medium	273	300	319	336	354	367	365	362	362	364	368
Low	273	298	316	332	348	360	357	353	351	350	353
Cedar	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
High	390	388	381	380	373	367	368	367	369	373	380
Medium	390	385	376	372	363	355	353	351	351	352	357
Low	390	383	372	367	357	348	345	341	339	339	342
East	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
High	348	364	372	379	380	379	380	379	381	385	392
Medium	348	362	367	372	370	367	365	362	362	364	368
Low	348	359	363	367	364	360	357	353	351	350	353
Moreau	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
High	399	392	392	388	387	385	386	385	388	391	399
Medium	399	390	387	380	377	373	371	368	368	370	374
Low	399	387	383	375	371	366	362	358	356	356	359
North	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
High	395	396	374	367	361	336	337	336	338	342	348
Medium	395	393	369	359	351	325	324	322	321	323	327
Low	395	390	365	355	346	319	316	313	311	311	313
Thorpe Gordor	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
High	315	320	333	339	347	342	343	343	345	348	354
Medium	315	318	329	332	338	331	330	327	327	329	333
Low	315	315	326	328	333	325	322	318	317	317	319
Belair	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
High	429	434	427	426	415	397	398	398	400	404	411
Medium	429	431	422	417	404	384	383	380	380	381	386
Low	429	428	418	412	397	377	374	370	368	367	370
Lawson	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
High	452	470	474	488	484	471	472	471	474	478	487
Medium	452	467	468	478	471	455	454	450	450	452	458
Low	452	463	463	472	464	447	443	438	436	435	439
Pioneer	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
High	523	546	565	585	593	581	582	581	584	590	601
Medium	523	542	557	574	577	562	560	555	555	557	565
Low	523	538	552	567	569	551	547	540	538	537	541
South	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
High	244	272	296	317	328	324	325	324	326	329	335
Medium	244	270	292	310	319	314	312	310	310	311	315
Low	244	268	289	306	314	307	305	301	300	300	302
West	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
High	384	387	396	394	389	367	368	367	369	373	380
Medium	384	385	391	386	379	355	353	351	351	352	357
Low	384	382	387	382	373	348	345	341	339	339	342

## Philosophy and Ethics Statement

I am an entrepreneur who strives to serve my firm's clients as best I can. I provide information and analysis to several clients on a contractual basis. I also commit to the following business principles:

- Uphold a high professional level of competence, honesty and confidentiality.
- Provide my clients the most current, accurate and complete information requested, within their timeframe and budget constraints.
- Accept only those projects that require that I use legal and publicly-available techniques to obtain information.
- Respect my client's confidentiality.
- Maintain a professional relationship with my clients, and comply with all their requirements for information disclosure.
- Assume responsibility for all my employees and subcontractors to comply with this statement.
- Meet all deadlines and modifications for my clients.
- Deliver first-rate value for my clients with the aim of establishing a long-term relationship where both parties receive what they expected.



**Business Information Services, LLC** is a Missouri-registered Limited Liability Corporation, owned by Preston Smith of Blue Springs, Missouri.

Smith has an undergraduate journalism degree from the University of Missouri and a Master's in Public Administration from the University of Missouri-Kansas City, with a specialization in statistics and quantitative analysis. Certified GIS analyst Sarah Rose provided the maps. Researcher Deb Liptak provided in-depth research. Proofreader Andrew Felker did much to improve readability and clean up all the typos.

Special thanks for FinCo GeoDemographics, LLC principals Dr. Jonathan C. Comer and G. Allen Finchum, who are also geography professors at Oklahoma State University, for their work on the enrollment projections in this study. We appreciate their credibility and in-depth analysis.

Smith consults with school districts around the Midwest and has prepared more than 60 demographic analysis studies for school districts.

Preston Smith, [pvsmith@sbcglobal.net](mailto:pvsmith@sbcglobal.net) 816-224-3498

[www.businessinformationservices.biz](http://www.businessinformationservices.biz)