



# JEFFERSON PARISH PUBLIC SCHOOL SYSTEM

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## TRENDS, ENROLLMENTS, AND PROJECTIONS 2015-2020

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*December 3, 2015*



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## ACKNOWLEDGEMENTS

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On behalf of Villavaso & Associates, LLC, we would like to extend our appreciation to the Jefferson Parish Public School System for the opportunity to develop this Enrollment Report. We would like to thank the staff of the Jefferson Parish Public School System for their invaluable help in providing data, past research, and oversight for this project. As a planning team, we hope this document will serve the Jefferson Parish Public School System for years to come.

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## EXECUTIVE SUMMARY

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This study considers several factors that are likely to affect the System's enrollment between 2015 and 2021. To account for different probabilities of demographic events, four scenarios of population and enrollment changes were developed. Under three of the four scenarios, the school-age population enrolled in the Jefferson Parish Public School System will increase.

Over the next five years, JPPSS will see overall gains in school enrollments but will see the growth drop off in one to two years as the momentum slows but then rises again in four to five years as higher birth rates take effect.

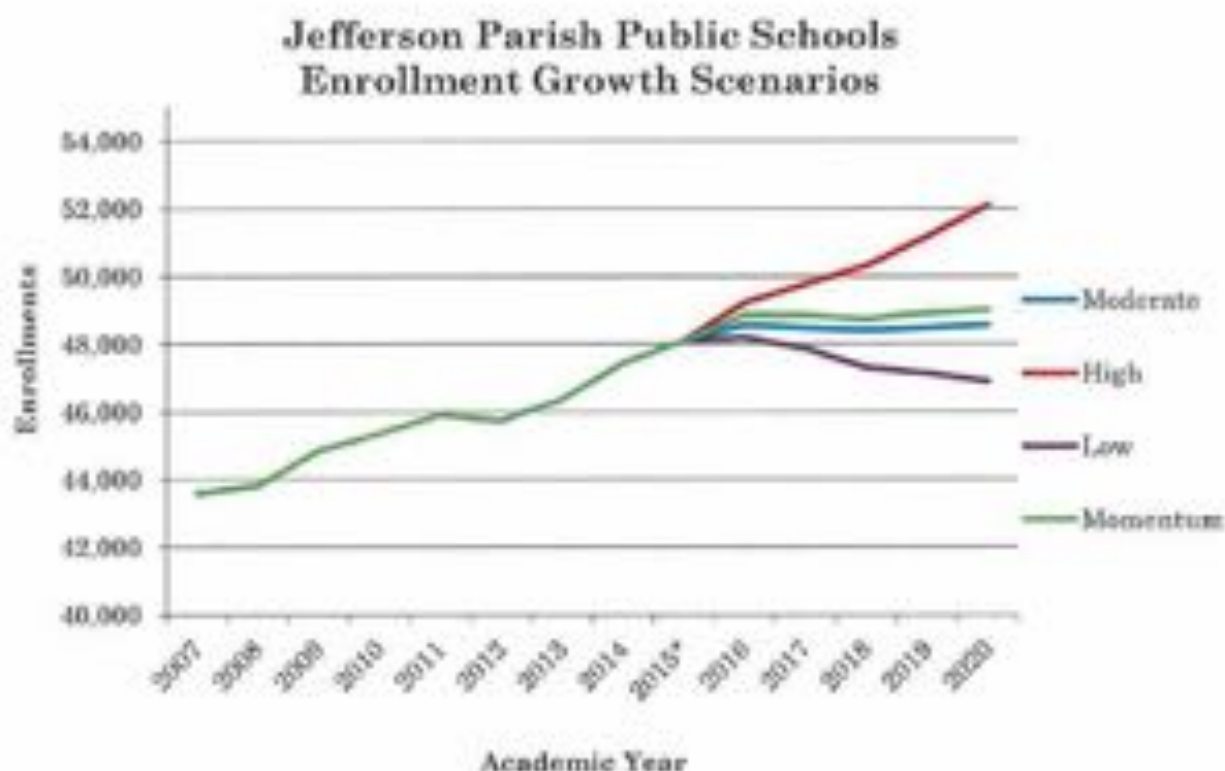
- In 2007 and 2008, Jefferson Parish saw significantly higher than average live birth rates, meaning an increase in the number of children born to mothers residing at that time in Jefferson Parish. Those children, as they move up the grade levels, will continue to positively impact the system. The two birth years will serve to skew their respective grade levels for the next several years, especially in the Middle School years in 2018-2020, but the subsequent decrease in birth numbers from 2010-2013 will reduce this growth momentum.
- In 2013, the Jefferson Parish live birth rate dropped to the lowest since Katrina, and this low birth rate will show itself in the Kindergarten classes of 2018. However, 2014 shows a large spike in birth rates, leading to possible recovery years starting in 2019 and 2020 for Kindergarten enrollments.
- The capture rate, the percentage of children born in Jefferson Parish who go on to attend Kindergarten in Jefferson Parish, is 61.6 percent. On the West Bank, the numbers are currently higher, with an increasing capture rate of 69.3 percent but lower on the East Bank with a capture rate of 55.9 percent. The five-year capture rate average for the West Bank is 70.3 percent while the East Bank average is 60.1 percent. Overall, the capture rates have decreased three and a half percent since 2010.
- Economically, Jefferson Parish is in a weaker position than nearby Orleans, Tangipahoa, and St. Tammany Parishes. Limited business and industrial growth is affecting economic stability. Restricted choices in moderate income housing restrict new and young families from establishing roots in Jefferson Parish.
- Jefferson Parish Public Schools System's in-migration growth from international sources is increasing at a significant rate. Unfortunately, this in migration is hard to predict as recent trend in international migration appear to be political and humanitarian in nature.
- Jefferson Parish is also experiencing an internal out-migration, residents leaving Jefferson Parish for other parishes and states, which has the potential to lessen overall school enrollment growth in Jefferson Parish. In recent years, Jefferson Parish has seen higher income families leave for these parishes and other destinations.
- Population and economic growth in Jefferson Parish will not change significantly overall in the next five years as Jefferson Parish will experience few fluctuations in



total population, leveling off of in-migration and out-migration, limited residential growth, and nominal upward changes in economic growth.

- Jefferson Parish Public Schools will see limited increases in enrollment from private school transfers and home school enrollments.

Assuming the growth scenarios, the Pre-K-12 school enrollment population growth will range from approximately -2,000 students to +4,000 students through the 2020-2021 school year. The Momentum Scenario, the momentum of those children already enrolled in the system and the young families who recently moved into the area might continue to affect school enrollment over the next few years, seems the most likely indicator of the enrollment outlook in Jefferson Parish.



School enrollment in Jefferson Parish is strongly tied to the economic health of Jefferson Parish. The West Bank, and more specifically the western half of the West Bank, is more strongly impacted by the vagaries of economic growth. Jefferson Parish has little developable land to encourage strong residential growth. Until Jefferson Parish sees economic growth bringing in more residential population as well as more choices in residential housing, the long term growth (10 years plus) of the district is uncertain.

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## INTRODUCTION

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In July 2015, the Jefferson Parish Public School District requested that Villavaso & Associates, LLC update and prepare school enrollment projections for Jefferson Parish Public School System up to the 2019-20 academic year. This report constitutes an update to a study conducted by Villavaso & Associates, LLC (V&A) in 2014 to address the short-range planning needs of the Jefferson Parish Public School System.

This report will provide annual enrollment forecasts by grade for the Jefferson Parish Public School System from 2015 to 2020 and beyond. The "expected" future enrollments that will result from the most likely population patterns are presented in four scenarios – for moderate, high, low, and momentum growth assumptions.

The report starts with a report of preliminary data, trends and findings, providing a snapshot of existing conditions in Jefferson Parish. The second part of the report continues with the description of the methodology used in the development of the population and enrollment forecasts. Next, it presents the enrollment projections by grade levels and by the geographical areas. The report then concludes with micro geographies and local trends revealed by mapping the changes in enrollments and populations, as shown on the embedded maps.

The mapping system, a Geographic Information System (GIS), is used to gather and analyze data about features of any locality. The software draws the integration of data: geographic coordinates (or "where things are") and sets of attributes (or "what things are like"), processed according to rules set by the user. This study targets "hot spots", areas of significant change in population, construction and school enrollment numbers, as indicated by GIS mapping. By pinpointing these "hot spots", we can infer which areas are in need of redistricting, and/or even areas in need of additional facilities.

Finally, the report discusses the assumptions used in the study and circumstances that may change the assumptions and affect the prediction accuracy and ability of these forecasts.

## PART 1: PRELIMINARY DATA, TRENDS, AND FINDINGS

Jefferson Parish, Louisiana's largest parish, spans some 370 square miles and is located in southeast Louisiana on the north central border of the Gulf of Mexico, bordered on the north by Lake Pontchartrain and on the south by the Gulf of Mexico. Orleans and Plaquemines Parishes form the eastern border of the parish, while St. Charles and Lafourche Parishes lie directly west of Jefferson Parish. Jefferson is a major urban parish in the New Orleans Metropolitan Statistical Area (MSA). Its proximity to New Orleans and its position around the Mississippi River have spurred both residential and industrial development.

Jefferson Parish, developed decades ago as a suburb of New Orleans, has six incorporated cities: Kenner, Gretna, Westwego, Harahan, Lafitte, and Grand Isle. Since 1884, Gretna has served as the parish seat of government. Jefferson Parish stretches sixty miles from the shores of Lake Pontchartrain to the Gulf of Mexico and is divided near its top half by the Mississippi River. This division creates two distinct economic areas: the East Bank and the West Bank of Jefferson Parish. The East Bank is north of the Mississippi River and is immediately adjacent to the city of New Orleans.

Over the years, Jefferson Parish has developed into a commercial and retail trade center with some of the state's largest shopping malls. The West Bank, located south of the river across from New Orleans, is more industrial than the East Bank. Although West Bank residential development is less concentrated, the construction of bridges across the river has increased access between the West Bank and New Orleans.

Of Jefferson Parish's two major areas the West Bank is seen as the part of Jefferson Parish with the highest growth potential as there is some vacant land for new development and appears to be a prime area for first time homebuyers. The East Bank is mostly built out with any new development actually being the redevelopment of older areas, with the exception of more upscale housing developments on the lakefront.

The Jefferson Parish Public School System is one of the largest school systems in the State of Louisiana. Currently it has 80 schools, including charter schools, from pre-Kindergarten to 12<sup>th</sup> grade and employs over 3,600 faculty members, serving approximately 49,000 students.

Typically, Jefferson Parish's population growth has mirrored the population growth of the State of Louisiana. Since 1980, the population of Jefferson Parish has remained fairly stable, increasing or decreasing less than one percent per year and less than 2 percent per decade until the events of 2005.

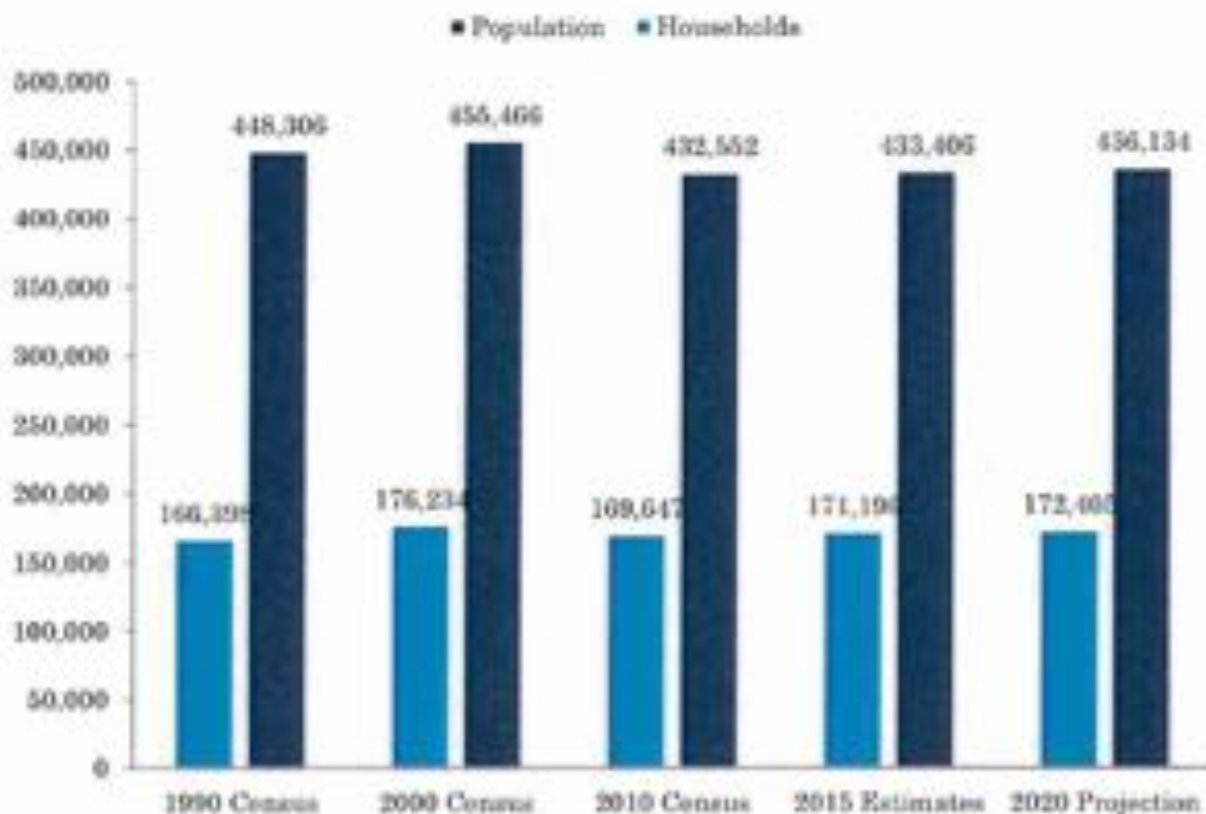


## POPULATION TRENDS

The U.S. Census Bureau released the results of its decennial census with the 2010 population of Jefferson Parish stands at 432,552 persons. The U.S. Census Bureau has released a July 1, 2014 Population Estimate of 435,716 for Jefferson Parish.

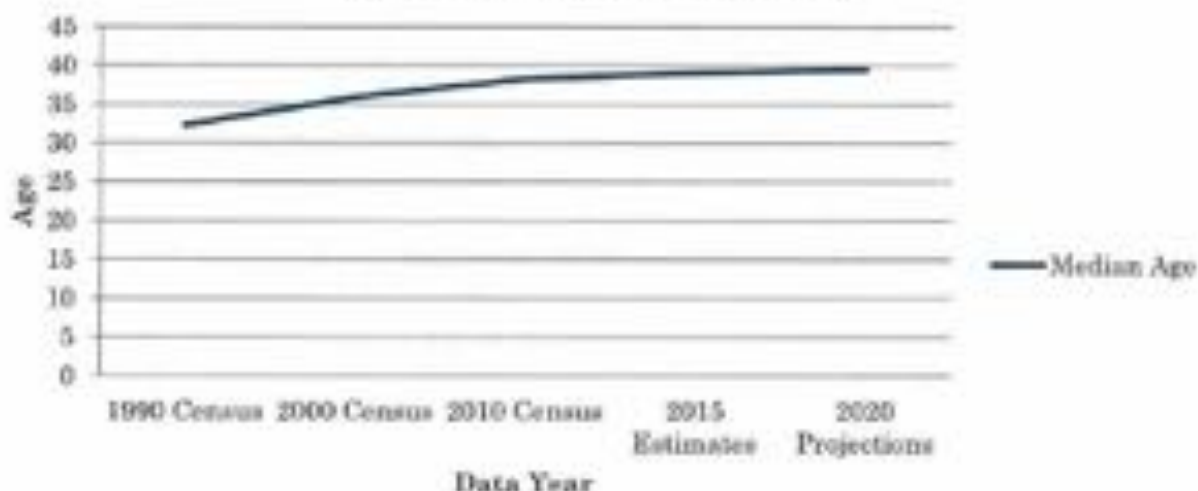
Jefferson Parish Public School System: Jefferson Parish and Louisiana Historical Populations		
Year	LOUISIANA	JEFFERSON PARISH
1830	215,739	6,846
1840	352,411	10,470
1850	517,762	23,093
1860	708,002	15,372
1870	726,915	17,767
1880	939,946	12,166
1890	1,118,588	13,221
1900	1,381,625	15,321
1910	1,656,388	18,247
1920	1,798,509	21,563
1930	2,101,593	40,032
1940	2,363,880	50,427
1950	2,683,516	103,873
1960	3,257,022	208,769
1970	3,641,306	337,568
1980	4,205,900	454,592
1990	4,219,973	448,306
2000	4,468,976	455,466
2010	4,533,372	432,552
<i>Source: U.S. Census Bureau Historical Census, U.S. Census Bureau 2000 and 2010 Census SPT</i> <i>Prepared by Villavaso &amp; Associates, LLC (January 2014)</i>		

## Jefferson Parish



ESRI provides more detailed estimates and forecasts for five year periods, with the most recent being the 2015/2020 Estimates and Forecasts. ESRI models the change in population and households by block group from three primary sources—InfoBase database from Axiom Corporation, residential delivery statistics from the U.S. Postal Service, and residential construction data from Hanley Wood Market Intelligence, in addition to several other sources. The U.S. Postal Service (USPS) establishes carrier routes to enable efficient mail delivery and publishes monthly counts of residential deliveries for every U.S. postal carrier route. This represents the most comprehensive and current information available for small, sub-county geographic areas.

### Jefferson Parish Median Age



Currently ESRI Estimates and Projections show a growing, but aging population in Jefferson Parish, with the largest growth in the age co-horts of age 55 and above. Since 2000, the population aged 55 and above is estimated to have increased almost 25%, with the median age of the Jefferson Parish increasing from 35.9 years in 2000 to an estimated median age of 39.1 years in 2015.

Jefferson Parish, Louisiana: Parish Demographic Profile										
Population by Age	1990 Census		2000 Census		Census 2010		2015 Estimates		2020 Projections	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 - 4	32,777	7.3%	30,226	6.6%	28,708	6.6%	26,098	6.2%	26,510	6.1%
5 - 9	34,538	7.7%	31,811	7.0%	28,429	6.1%	27,191	6.3%	26,137	6.0%
10 - 14	33,405	7.5%	32,657	7.2%	25,994	6.0%	25,287	5.9%	27,824	6.3%
15 - 19	32,438	7.2%	32,436	7.1%	27,647	6.2%	23,866	5.5%	24,519	5.8%
20 - 24	32,671	7.3%	29,793	6.5%	29,457	6.4%	26,911	6.2%	23,838	5.5%
25 - 34	60,307	17.9%	64,551	14.2%	61,239	14.2%	63,914	14.7%	61,187	14.0%
35 - 44	71,009	15.8%	73,391	16.1%	74,455	12.6%	73,329	12.3%	78,103	13.3%
45 - 54	87,964	20.0%	84,824	14.2%	83,256	13.1%	87,747	13.2%	92,719	11.9%
55 - 64	37,625	8.4%	41,658	9.1%	43,344	12.4%	59,646	13.8%	58,098	13.5%
65 - 74	38,743	8.4%	30,823	6.9%	31,645	7.2%	39,705	9.2%	46,009	10.5%
75 - 84	13,657	3.0%	18,915	4.2%	19,559	4.3%	19,395	4.5%	22,672	5.2%
85+	3,372	0.8%	5,375	1.2%	7,745	1.8%	9,017	2.1%	9,115	2.1%

Prepared by: Villavaso & Associates, LLC (August 31, 2014)  
 Source: U.S. Census Bureau - 1990, 2000, 2010 Census of Population and Housing & 2010 American Community Survey; ESRI forecasts for 2015 and 2020.

While Jefferson Parish has regained much of the post-Katrina population losses, youth population is substantially lower than pre-Katrina levels. Overall, the population of school aged children in Jefferson Parish has declined steadily since 1980. Since 2000, the population age 19 and younger has decreased an estimated 22.6%. This movement is a reflection of the nationwide trend of smaller families and households.

**Jefferson Parish Public School System:  
All Teenagers and Children Estimates and Projections**

Age	Census 2010	2011 Estimates	2012 Estimates	2013 Estimates	2014 Estimates	2015 Estimates	2020 Projections
<b>Total</b>	<b>432,552</b>	<b>434,056</b>	<b>434,575</b>	<b>435,524</b>	<b>435,716</b>	<b>433,496</b>	<b>426,134</b>
<b>Under 5 years</b>	<b>28,366</b>	<b>28,357</b>	<b>27,901</b>	<b>27,483</b>	<b>27,293</b>	<b>26,698</b>	<b>26,516</b>
<b>5 to 9 years</b>	<b>26,420</b>	<b>26,390</b>	<b>26,758</b>	<b>27,070</b>	<b>27,152</b>	<b>27,191</b>	<b>26,127</b>
<b>10 to 14 years</b>	<b>25,995</b>	<b>26,192</b>	<b>25,888</b>	<b>25,715</b>	<b>25,426</b>	<b>25,787</b>	<b>27,624</b>
<b>15 to 19 years</b>	<b>27,047</b>	<b>25,536</b>	<b>25,172</b>	<b>24,712</b>	<b>24,392</b>	<b>23,986</b>	<b>24,519</b>

Source: U.S. Census Bureau, Annual Estimates of the Resident Population for Selected Groups: April 1, 2010 to July 1, 2014; ESRI Population Estimates and Projections 2015 and 2020  
Prepared by Villavaso & Associates, LLC (July 2015)

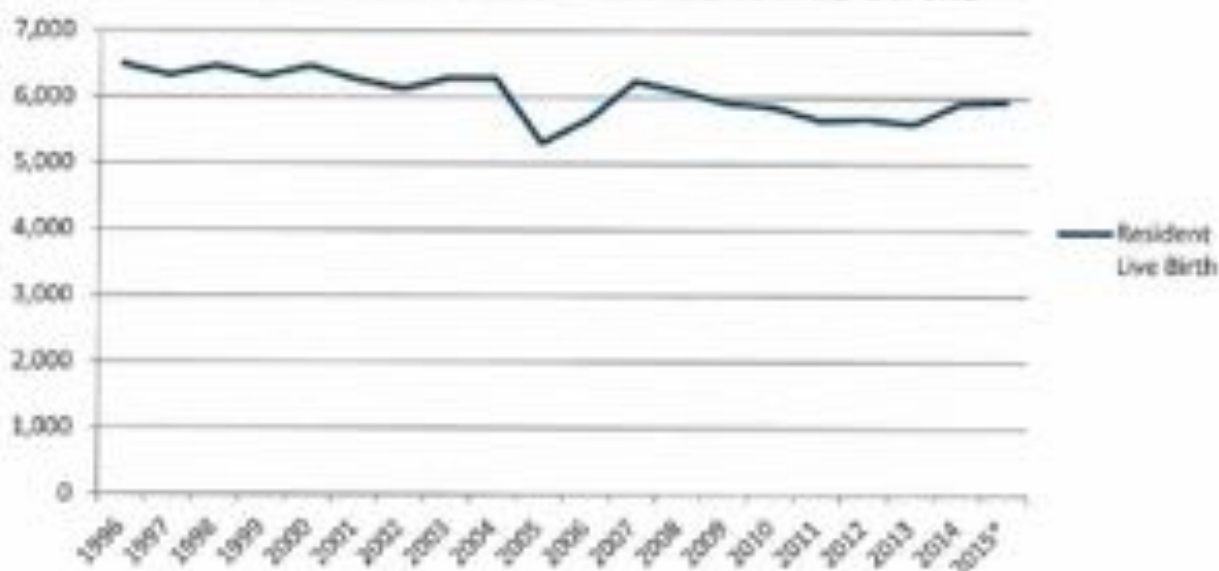
The school age populations are projected to be declining, except for small gains in the 10-14 year old age co-hort, the age that most closely aligns with the middle school student population. In 2007 and 2008, Jefferson Parish saw significantly higher than average live birth rates, meaning an increase in the number of children born to mothers residing at that time in Jefferson Parish. Those children, as they grow will continue to positively impact their successive age co-horts. The two birth years will serve to bubble their respective co-horts for the next several years but the subsequent decrease in birth numbers will reduce this growth momentum.

#### LIVE BIRTH RATES

"Resident live birth" does not mean a baby born in Jefferson Parish - it means a baby born to a resident of Jefferson Parish. The National Center for Health Statistics and the Louisiana State Center for Health Statistics provide these numbers. As people move, many of those babies born to Jefferson Parish residents won't be here five years later.



### Jefferson Parish Resident Live Births



Live birth rates in Jefferson Parish had a small recovery to near Pre-Katrina levels for the 2007-2009 birth years, but those numbers have been steadily declining since the 2007 post-Katrina peak but will rebound for 2014 and 2015.

Jefferson Parish Public School System					
Decennial Census Populations by East Bank/West Bank					
East Bank	Population	Under 5	Age 5-17	Households	Housing Units
1990	200,739	16,916	44,485	103,296	112,195
2000	257,501	15,275	42,073	107,528	113,918
2010	243,782	14,745	34,517	102,490	113,311
West Bank	Population	Under 5	Age 5-17	Households	Housing Units
1990	187,637	16,040	42,598	62,969	72,877
2000	197,965	14,951	42,966	68,706	73,989
2010	188,770	13,621	34,514	67,213	75,824
Total	Population	Under 5	Age 5-17	Households	Housing Units
1990	448,396	32,956	87,083	166,265	185,072
2000	455,466	30,226	85,039	176,234	187,907
2010	432,552	28,366	69,031	169,703	189,135

Source: U.S. Census Bureau (1990, 2000, 2010)  
 Prepared by Villavaso & Associates, LLC (November 2014)

Overall, population growth for Jefferson Parish has diminished since 1990, primarily based on the storms of 2005 and the economic decline of the 1990s. However, overall population and economic growth in Jefferson Parish will see minor upward growth in the next five years as Jefferson Parish will experience few fluctuations in population and nominal upward changes in economic growth.

Jefferson Parish Public School System: Annual Estimates of the Population Geographic Area: Jefferson Parish				
	Estimate date	Population Estimate	Population Estimate % Change	Actual Population Change
Census Population estimates	July 1, 2015	Not released	Not released	
	July 1, 2014	435,716	0.22%	2010-2014
	July 1, 2013	434,767	0.25%	3,164
	July 1, 2012	433,676	0.04%	0.72%
	July 1, 2011	433,523	0.22%	
	July 1, 2010	432,649	0.02%	
April 1, 2010	Estimates base (Census)	432,552	-2.50%	2000-2010
	July 1, 2009	443,660	-0.22%	-22,914
	July 1, 2008	444,635	0.98%	-5.03%
	July 1, 2007	440,339	4.83%	
	July 1, 2006	420,065	-6.88%	
	July 1, 2005	451,124	-0.26%	
	July 1, 2004	452,280	0.22%	
	July 1, 2003	451,300	0.01%	
	July 1, 2002	451,248	-0.16%	
	July 1, 2001	451,970	-0.75%	
	July 1, 2000	455,406	-0.01%	
April 1, 2000	Estimates base (Census)	455,406		1990-2000
Census Population estimates	July 1, 1999	447,790	-0.43%	7,130
	July 1, 1998	449,708	-0.33%	1.59%
	July 1, 1997	451,179	-0.52%	
	July 1, 1996	453,548	-0.41%	
	July 1, 1995	455,408	-0.02%	
	July 1, 1994	455,499	0.07%	
	July 1, 1993	455,198	-0.05%	
	July 1, 1992	455,412	0.70%	
	July 1, 1991	452,264	0.85%	
	July 1, 1990	448,308	-0.01%	
April 1, 1990	Estimates base (Census)	448,336		1980-2000
April 1, 1980	Census	454,592		-6256
				-1.38%

Source: U.S. Bureau of the Census Decennial Census and Annual Estimates  
Prepared and Updated by Villavaso & Associates, LLC (August 2015)

## MIGRATION

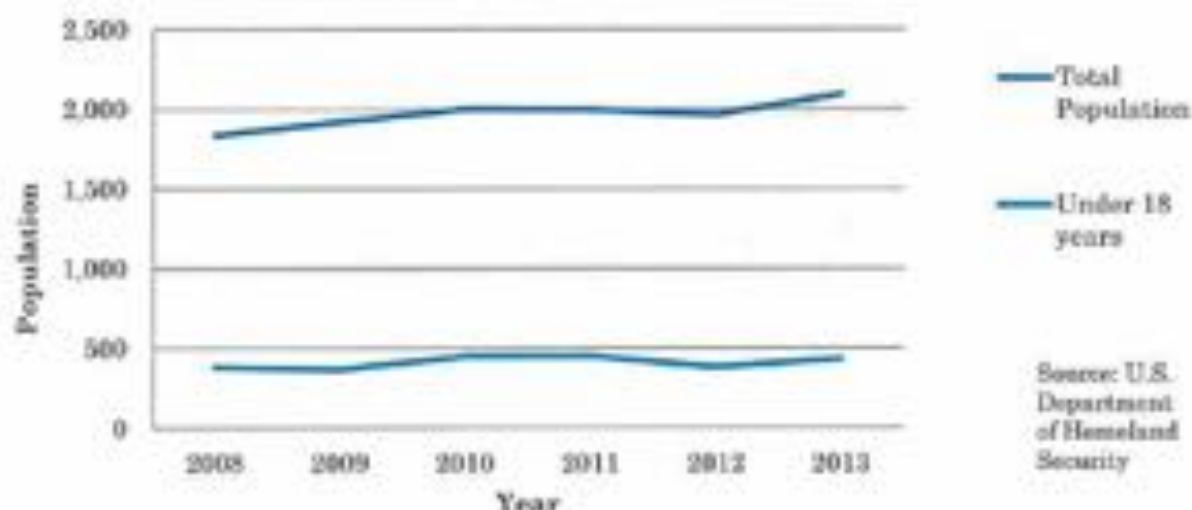
The most difficult part of projecting population is determining an estimate of the in- and out-migration for the area. Since little reliable data are available to study in- and out-migration, one typically works with net migration rates, which is the balance between in- and out-migration. Net migration is positive when more people move into the area than leave and negative if the opposite is true.

Jefferson Parish Public School System Parish Estimates of the Components of Population Change			
Year	Net Migration*		
	Total	Inter- national	Internal
2000-2001	-4,555	928	-5,483
2001-2002	-2,489	917	-3,406
2002-2003	-1,759	898	-2,657
2003-2004	-863	854	-1,749
2004-2005	-3,284	715	-3,999
2005-2006	-28,996	796	-29,792
2006-2007	2,405	738	1,667
2007-2008	-4,935	634	-5,569
2008-2009	-2,391	822	-3,213
2009-2010	-1,564	609	-2,173
2010-2011	-1,741	781	-2,522
2011-2012	-1,445	1,493	-2,938
2012-2013	-648	1,580	-2,228
2013-2014	-1,193	1,811	-3,004
*Estimates			
Source: Population Division, U.S. Census Bureau and the National Center for Health Statistics (National Vital Statistics)			
Prepared by Villavaso & Associates, LLC (August 2015)			

The importance of foreign immigration to population growth in Jefferson Parish is the result of not only the increasing number of foreign immigrants but also the significant number of domestic (internal) out-migrants from Jefferson Parish, meaning those residents moving from Jefferson Parish to another location within the United States. For example, it is estimated by the U.S. Census Bureau that Jefferson Parish experienced net domestic out-migration of 3,004 residents in 2014 compared to an influx of 1,811 foreign immigrants.

Core Based Statistical Areas (CBSA) are geographic areas defined by the U.S. Office of Management and Budget and are used by the U.S. Department of Homeland Security to track legal permanent residents annually. Legal Permanent Residents (LPRs) are foreign nationals who have been granted the right to reside permanently in the United States. LPRs are often referred to simply as "immigrants," but they are also known as "permanent resident aliens" and "green card holders."

### Persons Obtaining Legal Permanent Resident Status CBSA: New Orleans-Metairie-Kenner, LA



There are two major issues with accurately determining immigrant population in Jefferson Parish. First, the immigration data tracked by government agencies is usually released one to two years after the actual event, therefore not keeping pace with current events and trends. Second, only legal immigration is tracked.

The illegal immigrant population of the United States is almost impossible to ascertain because of difficulty in counting and tracking individuals in this population. The "residual method" has been used to estimate the unauthorized immigrant population. Using this method, the known number of legal immigrants to the United States is subtracted from the reported U.S. Census number of foreign born people to obtain the total, unauthorized immigrant (residual) population. However, this method is limited as the Census is conducted every 10 years and once again, data would be out of date to current events.

Under federal law, all children are entitled to a free public education, regardless of their immigration status. In the past year, the United States has experienced a surge in unaccompanied immigrant children. During the first six months of 2014, 1,275 unaccompanied immigrant children, mostly from Central American countries, were released to family sponsors in Louisiana. From January to July of 2014, the U.S. Department of Health and Human Service's Office of Refugee and Resettlement placed 533 unaccompanied children within Jefferson Parish.

Factors influencing migration could include a continuing recession, international, national or local crises that would increase out-migration and decrease in-migration, or an accelerated economic growth similar to one that took place in second half of the 1990's and brought in many new residents.

The foreign-born share of Louisiana's population rose from 2.6% in 2000, to 4.4% in 2010, to 4.6% in 2013, according to the U.S. Census Bureau. Of the Louisiana Parishes, Jefferson Parish currently has the highest percentage of foreign born residents at 12.5%, based on 2013 population estimates. The foreign born population in Jefferson Parish was 7.4% in



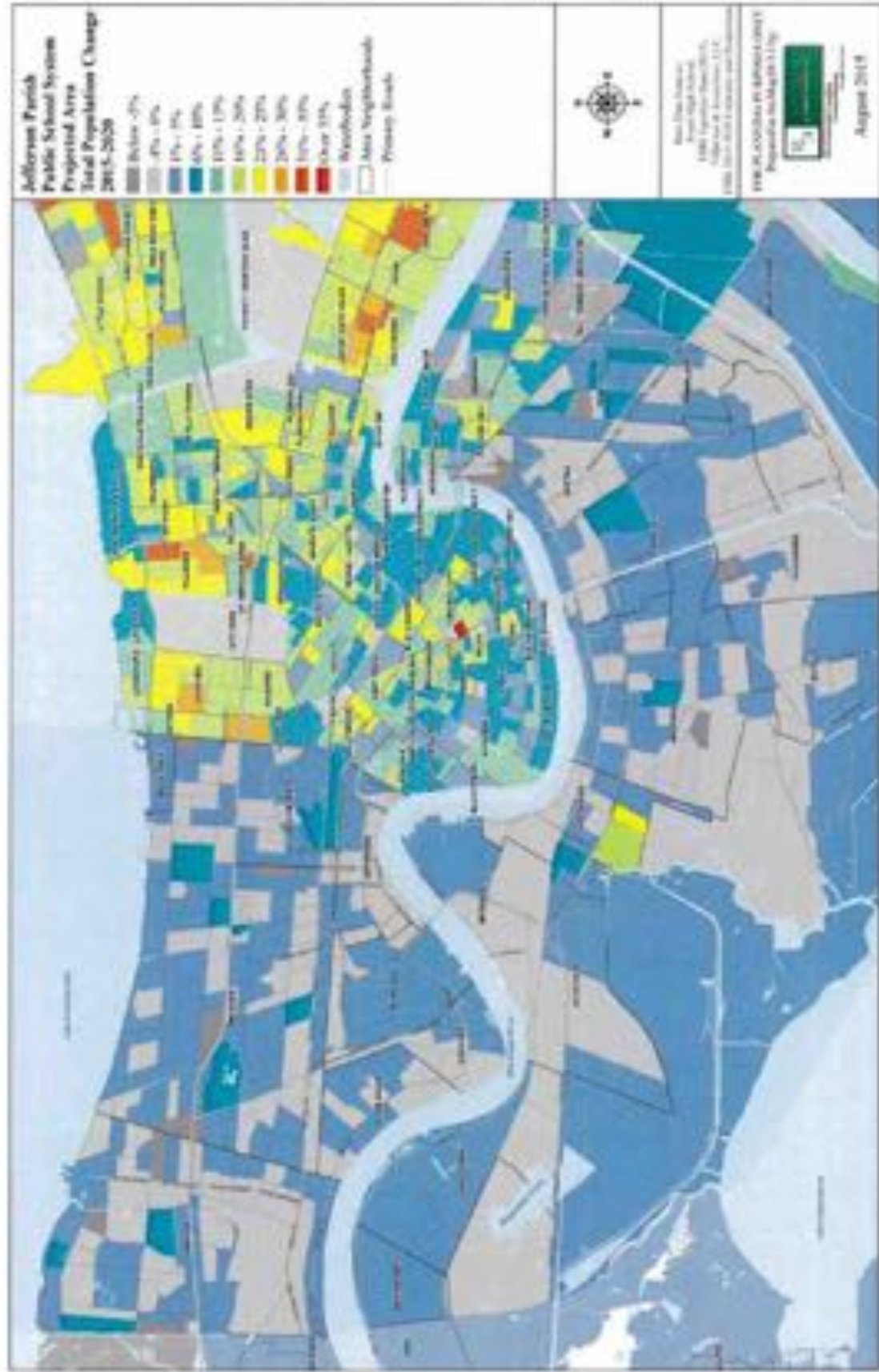
2000 and 11.2% in 2010. In 2013, 5.9% of immigrants in Jefferson Parish were born in Puerto Rico or other U.S. territories, born abroad to American parents, or were naturalized U.S. citizens.

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## PROJECTED GROWTH AREAS

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Using ESRI data, we developed maps showing potential areas of growth in Jefferson Parish based on block groups. We know from experience just how difficult it is to assess change accurately—growth or decline. We also understand the difficulty of measuring demographic change for the smallest areas: block groups. Block groups are the most frequently used. The following maps show the projected growth areas from 2015 to 2020 in Jefferson Parish by total population and age co-horts.















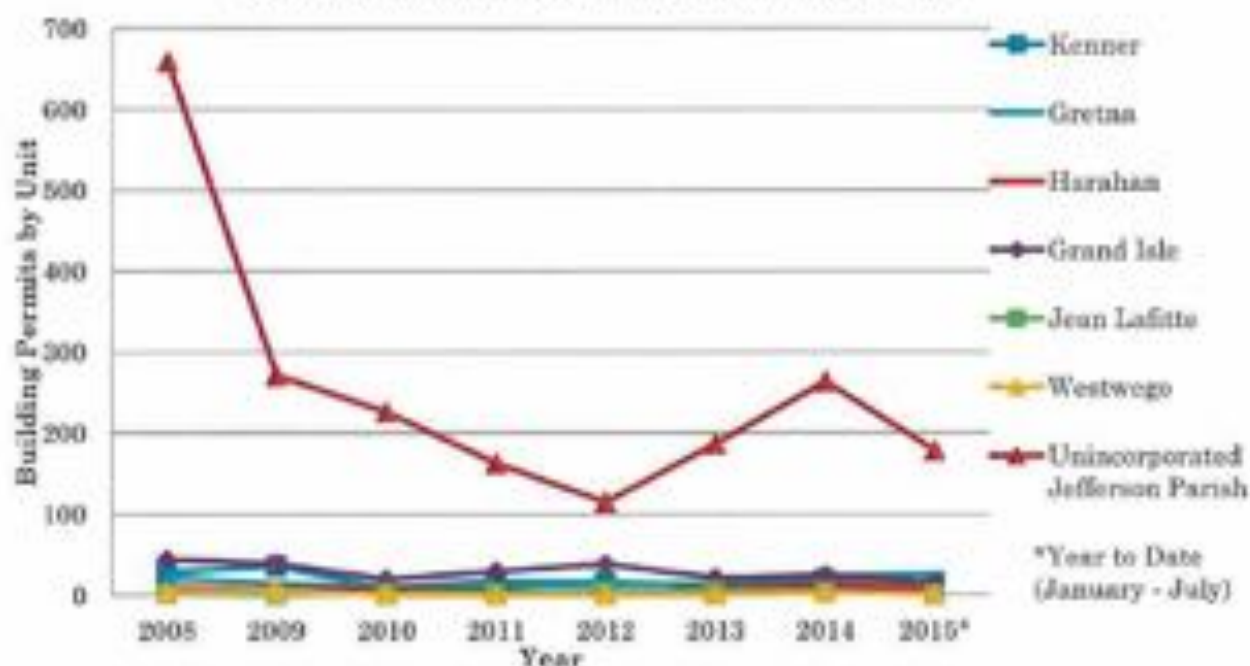


## ECONOMIC TRENDS: RESIDENTIAL CONSTRUCTION

In order to develop assumptions for future growth in the Jefferson Parish Public School System, Villavaso & Associates reviewed available construction and housing data from the U.S. Census Bureau and the Jefferson Parish Planning Department. The Real Estate Market Analysis: New Orleans and Northshore Regions, Volumes 46, April 2014 (REMA), produced annually by the Institute for Economic Development and Real Estate Research at the University of New Orleans is also used in this report.

Construction activity is a greatly observed indicator of economical activity at all levels, including national, regional and local. For Southeastern Louisiana, new residential construction is fueled by the continued replacement of housing inventory damaged or destroyed in the storms of 2005. The Southeastern Parishes are experiencing steady gains in population and are generating a steady pace of housing demand that is being met for the time being with new residential inventory. For Jefferson Parish, unsold housing inventories continued to decrease as the new construction neared 350 units in 2014.

Jefferson Parish Building Permits by Year



In Jefferson Parish, new construction permits are experiencing gains, with 2015 being on track to issue approximately 300 single family building permits. The expected growth is mostly single-family residential construction as Jefferson Parish has had only four multi-family permits applications in the last four years. Multi-Family housing is classified as two or more residential units in a structure. Jefferson's Parish highest multi-family permit volume since 2003 occurred in 2008 and has declined steadily since.

Jefferson Parish Public School System: Residential Building Permits		
<i>Jefferson Parish Applications Only</i>		
Year	Total Permits	Total Units
2000	709	817
2001	754	1,236
2002	946	1,304
2003	1,175	1,195
2004	1,181	1,217
2005	919	944
2006	711	716
2007	809	877
2008	589	769
2009	353	372
2010	271	271
2011	225	225
2012	186	186
2013	234	235
2014	343	346
Jan-July 2015	236	243

*Sources: U.S. Census Bureau Annual New Privately-Owned Residential Building Permits (2000-2014), Jefferson Parish Planning Department  
Prepared and Updated by Villavaso & Associates, LLC (August 2015)*

The only large available undeveloped space for additional residential development on the East Bank is the site of the former Colonial Golf Course in Harahan. Development plans for Colonial are uncertain at this time. The 264 unit apartment complex Bella Ridge, completed in 2015 is open in the Elmwood area. Located at the intersection of Dickory and Mound, these high end units are targeted at the 25-34 year age co-hort.

The Kenner mixed use development being planned in Laketown bears watching. The development site is owned by the state but leased by Kenner, and sits on the lakeside of the levee from the Pontchartrain Center, adjacent to the Treasure Chest Casino, Pontchartrain Center, Coconut Beach Volleyball facilities and more. The city is offering a 30 year lease to the developer to possibly include: restaurants, clubs, shops, kiosks, souvenirs, boating, apparel, gaming, hotels, and residential development.

Kenner City Council recently gave approval to the construction of a 265-unit apartment complex called The Gateway at Esplanade on the site of the now shuttered Hollywood Cinemas 9 Theater, just west of The Esplanade shopping mall. The theater has been closed since 2013. Proposed rent ranges from \$1,000 to 2,000 for one to three bedroom apartments. This mid range may appeal to new families and could add about 100 children into the Kenner area schools over time.





Jefferson Parish Public School System: Jefferson Parish Total Housing Units (Estimates)	
April 1, 2000 (Estimates Base)	187,907
April 1, 2000 (Census 2000)	187,907
July 1, 2000	188,034
July 1, 2001	188,538
July 1, 2002	189,518
July 1, 2003	190,549
July 1, 2004	191,453
July 1, 2005	192,373
July 1, 2006	190,245
July 1, 2007	190,704
July 1, 2008	181,328
July 1, 2009	181,827
April 1, 2010 (Census 2010)	189,135
July 1, 2011	189,046
July 1, 2012	188,911
July 1, 2013	188,736
July 1, 2014	189,066

Source: US Census Bureau Population Estimates Program; US Census Bureau American Community Survey 1 Year Estimates

Prepared and Updated by Villavaso & Associates, LLC (August 2015)

If housing demolitions are occurring in Jefferson Parish, these must also be taken into account. For instance, if housing demolitions / withdrawals have increased rapidly over recent years while new housing starts have remained relatively constant over many years, the conclusion may be that some of the new housing starts will simply be replacements for the families displaced by the demolitions. Of course, housing value and household composition would need to be further analyzed to confirm that this is indeed the case. It is possible that enrollment may remain flat or even decline although there is new housing occurring in the area.

Multi-family housing is most appealing to 18-34 year old age co-horts. However, as noted, the construction of multi-family housing in Jefferson Parish is bucking the national trend in multi-family housing growth. The lack of new multi-family housing in Jefferson Parish will affect growth of households, primarily young families. Most multi-family housing is used as starter homes for new families.

The unresolved question seems to be how much a continuing economic recovery will add to multi-family housing demand as young people get jobs and finally form their own households. Large numbers of young people are entering the housing market. Immigration has recovered from the lows of the recession—and immigrants are significantly more likely to

rent.<sup>3</sup> The numbers of single-person households and single parents are growing while the number of married couples is falling.

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### ECONOMIC TRENDS: REAL ESTATE

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According to the REMA, steady gains in the residential sales market in Jefferson Parish have helped reduce unsold building inventories throughout much of the region. Price growth is slowing down as smaller houses are becoming more common. According to the New Orleans Metropolitan Association of Realtors February and August 2015 Reports (NOMAR), the Westbank led Jefferson Parish in sales pace and price growth. The West Bank growth is not quite a sign of a booming West Bank, but more of an indicator that the market hit bottom and is showing early signs of bouncing back.

Single family home sales activity in all of Jefferson Parish rose significantly through 2013, producing a Parish-wide rise in average price from \$174,156 in 2012 to \$194,500 at mid-2015. Affordable housing availability throughout Jefferson for households earning at the median income level is very good with little price change over the past 10 years. Housing prices in East Jefferson are now beginning to rise by zip code at a 2% to 6% rate (70001 to 70005 in 2015) per year.

Jefferson Parish home prices rose to \$106 per square foot in 2015, just above the pre-Katrina average of \$105 per square foot. For the first half of 2015, Jefferson Parish housing process stayed flat but the neighborhoods with the highest prices per square foot included parts of Old Metairie and Bucktown, where homes sold for an average of \$494,724, or \$204 per square foot.

Jefferson Parish remains a single family housing market that offers an abundant range of homeownership options at prices that are generally affordable given the Parish's household income structure. This will work well for recruiting and retaining business to further strengthen the economy of Jefferson Parish.

The homeownership rate among younger families has fallen, reflecting both the loss of many homes through distressed sales but mostly through delayed entry into homeownership among newly formed households. The house-price gains that have helped mainly older families to rebuild homeowners' equity have been overshadowed among younger families by the ongoing retreat from homeownership. Young families are not moving into Jefferson Parish.

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### ECONOMIC TRENDS: EMPLOYMENT

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The New Orleans Metropolitan Statistical Area (New Orleans, Metairie and Kenner) shows unemployment settling down to 6.1% in September 2015<sup>4</sup>. Jefferson Parish experienced a 5.7% unemployment rate in September 2015. At 6.0%, Louisiana has a relatively low unemployment rate and comparable with Gulf Coast neighbor Mississippi (6.1%). In comparison, the national unemployment rate was 5.1% for September 2015.

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<sup>3</sup> National Real Estate Investor, <http://driehonline.com/multifamily/good-news-multifamily-rent-growth>

<sup>4</sup> United States Department of Labor, Bureau of Labor Statistics, Economy at a Glance, [http://www.bls.gov/bag/eng/la\\_news/econs\\_nsa.htm](http://www.bls.gov/bag/eng/la_news/econs_nsa.htm)



The relatively low unemployment rate in the Gulf Coast combined with the job increases may be attributed to an older population aging out of employment.

The U.S. Census Bureau produces business patterns data on an annual basis by Parish and zip code. The most recent data was for 2013 and was released in May 2015. Using the U.S. Census Bureau Zip Code Business Patterns, the trends in Jefferson Parish is fewer businesses and jobs, but an increase in payroll. The most recent data for Jefferson Parish is 2013, recording 11,630 establishments and 178,459 jobs for a loss of approximately 1,200 businesses and over 38,000 jobs since 2000.

Jefferson Parish Public School System: Parish Business Patterns						
Year	Paid employees for pay period including March	First-quarter Payroll	Annual Payroll	Total Establishments	Average Payroll per Establishment	Average Annual Pay per Employee
2000	216,762	\$1,433,425,000	\$5,879,988,000	12,842	\$457,872	\$27,124
2001	212,766	\$1,483,196,000	\$6,121,242,000	12,694	\$452,492	\$28,794
2002	209,974	\$1,484,747,000	\$6,182,795,000	12,655	\$488,605	\$29,448
2003	206,250	\$1,479,192,000	\$6,149,310,000	12,686	\$484,732	\$29,815
2004	203,114	\$1,512,333,000	\$6,246,745,000	12,693	\$492,141	\$30,755
2005	199,475	\$1,527,194,000	\$6,355,873,000	12,493	\$492,678	\$30,864
2006	187,373	\$1,604,631,000	\$6,849,673,000	12,142	\$564,126	\$37,765
2007	188,766	\$1,708,812,000	\$7,092,129,000	12,388	\$569,835	\$36,899
2008	191,346	\$1,814,736,000	\$7,427,487,000	12,107	\$613,487	\$38,817
2009	186,338	\$1,763,941,000	\$7,226,544,000	11,928	\$605,847	\$38,782
2010	178,959	\$1,702,874,000	\$7,185,634,000	11,805	\$608,779	\$40,158
2011	179,280	\$1,765,671,000	\$7,477,828,000	11,697	\$639,290	\$41,729
2012	180,743	\$1,876,494,000	\$7,697,946,000	11,614	\$635,258	\$42,569
2013	178,459	\$1,879,155,000	\$7,746,957,000	11,630	\$666,118	\$43,410

Prepared and Updated by Villavaso & Associates, LLC (July 2015)  
Source: U.S. Bureau of the Census Economic Census

## SCHOOL ENROLLMENT TRENDS: PUBLIC

The U.S. Department of Education reports in its "Condition of Education 2015" from school years 2013-14 through 2024-25, overall public elementary and secondary school enrollment is projected to increase by 6.0 percent (from 49.8 to 52.9 million students), with Louisiana expected to experience a decline in student enrollment of approximately five percent.

However, from school year 1999-2000 to 2011-12, the number of students nationwide enrolled in public charter schools increased from 0.3 million to 2.1 million students. During this period, the percentage of public school students who attended charter schools increased from 0.7 to 4.2 percent. Louisiana experienced a growth in Public Charter School enrollment between five and ten percent during the same time period.

Since the storms, Jefferson Parish has added schools, modified schools, renamed schools, moved schools, changed the grades of schools, changed administration at schools, changed curriculum at schools, and modified boundaries of schools. These modifications also serve to shift enrollment numbers at these certain schools.

Our analysis begins by examining historic patterns of growth in the System from 1990 to 2015, the most recent school year for which enrollment data are available. Census data for

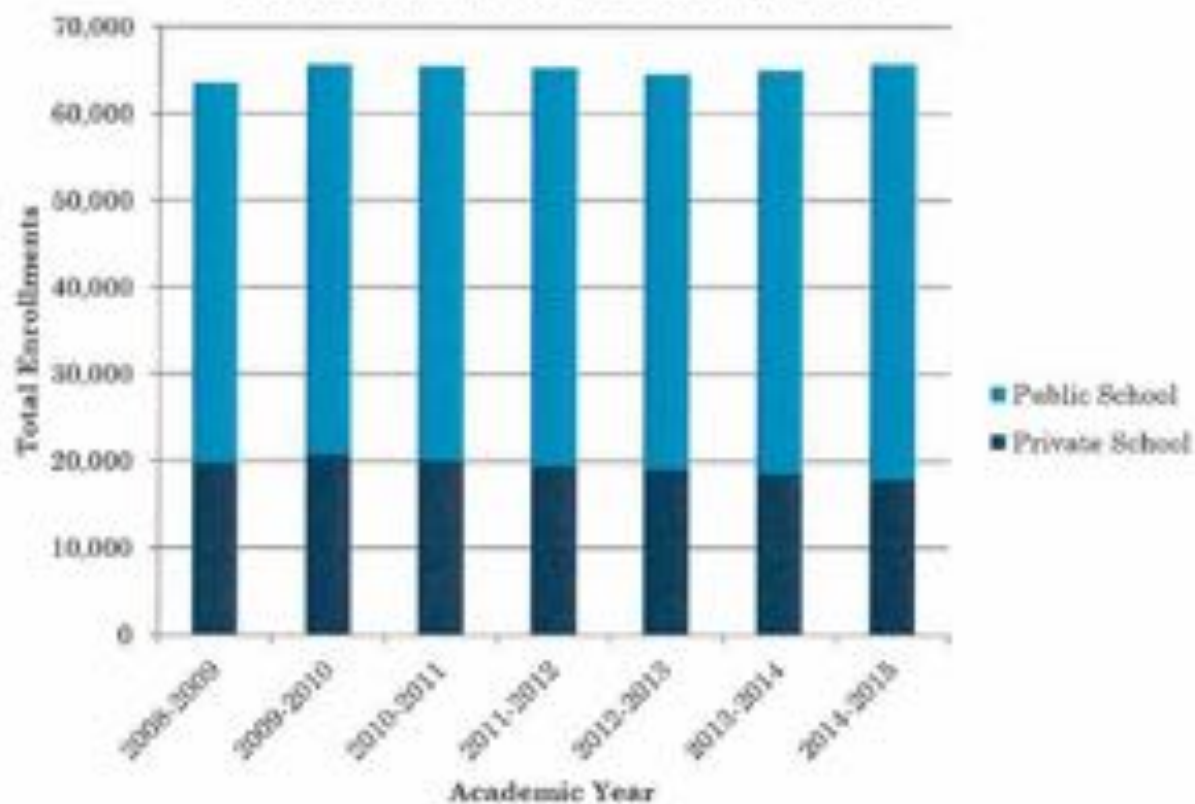


1990, 2000, and 2010 as well as ESRI Estimates and Forecast for 2015 and 2020 also provide critical information on population and housing that is needed to make the enrollment forecast.

Jefferson Parish Public Schools experienced a school year enrollment high of 52,724 total students in 1998-1999, but the population fluctuated to a low of 40,152 students in the 2006-2007 school year. Latest preliminary enrollment for Jefferson Parish Public School system is 49,200 total students for the 2015-2016 academic year. While Jefferson Parish seems to be on a trend of increasing but stable enrollment, the differences in the levels of recent growth raise questions about what growth rates are likely to be experienced in the future.

For this study, we are focusing on the number of students enrolled in traditional Pre-Kindergarten through Twelfth grades. As of the February 2014, Jefferson Parish School System enrollment was over 49,000 total students with over 48,000 being enrolled in Pre-K through 12, with the others enrolled in alternative or special education programs not specified by an individual grade.

**School Enrollments in Jefferson Parish**



#### **SCHOOL ENROLLMENT TRENDS: PRIVATE**

Overall, private schools served about ten percent of the nation's kindergarten through 12<sup>th</sup> grade students. The U.S. Department of Education reported in its "Condition of Education 2015" that private, religious school enrollment increased from 5.9 million in 1995-96 to 6.3 million in 2001-02, then decreased to 5.3 million in 2011-12. The percentage of all students in private schools decreased from 12 percent in 1995-96 to 10 percent in 2011-12.

Nationwide, all private school enrollments fell from a high of 6.3 million students in the 2001-2002 school year to 5.5 million in 2009-2010, and again declined to 4.5 million in 2011-2012, according to figures released in April 2015 by the National Center for Education Statistics.

Per the Louisiana Department of Education Non-Public School Data for the 2014-2015 school year, enrollment has dropped 3.91% at Jefferson Parish private schools but risen 0.58% at neighboring Orleans Parish private schools in the past year.

The Archdiocese of New Orleans' Office of Catholic Schools' new master plan indicates some Jefferson Parish area schools will be closed and/or consolidated on the East Bank and West Bank. We will need to revisit this subject in a year as private school closings could be another significant enrollment projection factor for Jefferson Parish.

Bank	Private Schools in Jefferson Parish	School Enrollment 2014-2015	School Enrollment 2013-2014	School Enrollment 2012-2013	School Enrollment 2011-2012	School Enrollment 2010-2011	Percent Change in Enrollment 2014 vs. 2013
East	Archbishop Chapelle High School	706	750	776	793	844	-10.97%
East	Archbishop Rummel Junior High School	242	251	245	276	299	-12.32%
East	Archbishop Rummel Senior High School	412	451	477	500	591	-11.60%
East	Conquering Word Christian		New for 2014				
East	Stonement Lutheran School	218	244	249	267	258	-18.35%
East	Community Day School (New Orleans)		27	38	52	51	-100.00%
East	Crescent City Christian School	349	337	323	305	303	14.43%
East	Ecce Christus	250	258	250	284	293	-11.97%
East	Faith Lutheran School	66	65	78	67	72	-1.49%
East	Heritage Academy	CLOSED	CLOSED	CLOSED	50	70	
East	Islamic School Of Greater New Orleans	130	143	136	141	169	-7.80%
East	John Curtis Christian School	849	853	798	796	749	4.66%
East	Kelso-Franco School	132	448	502	531	543	-17.08%
East	Lutheran High School	103	79	77	55	75	87.27%
East	Memorial Baptist Christian	48	47	36	39	61	23.08%
East	Metairie Park Country Day School	730	724	710	722	709	1.11%
East	New Direction Academy	530	595	New for 2013			
East	Our Lady Of Divine Providence School	188	235	239	230	267	-18.20%
East	Our Lady Of Perpetual Help School	232	220	219	173	194	28.99%
East	Ridgewood Preparatory School	236	257	234	246	227	-4.07%
East	St. Agnes School	155	212	222	167	185	-7.19%
East	St. Angela Merici School	178	207	187	186	185	-2.07%
East	St. Ann Elementary School	520	551	547	518	706	0.24%
East	St. Bernice School	222	230	239	208	246	-33.43%
East	St. Catherine Of Siena	406	393	393	482	450	-4.08%
East	St. Christopher Elementary School	585	606	636	677	699	-33.15%
East	St. Clement Of Rome School	490	492	490	536	521	-30.48%
East	St. Edward The Confessor School	437	444	457	451	502	-11.00%
East	St. Elizabeth Ann Seton School	427	454	491	487	493	-12.32%
East	St. Francis Xavier School	411	415	418	400	422	3.75%
East	St. Louis King Of France School	251	251	230	362	254	-30.66%
East	St. Martin's Episcopal School	479	488	523	513	511	-4.63%
East	St. Mary Magdalen School	301	317	353	363	398	-17.08%
East	St. Matthew The Apostle School	401	429	442	497	548	-19.32%
East	St. Philip Neri School	609	627	608	649	635	-4.41%
East	St. Rita School	313	342	385	382	392	-10.21%
East	Torch Academy	18	CLOSED	CLOSED	15	14	20.00%
East	Victory Christian Academy	201	190	196	197	141	2.03%
East	PRIVATE SCHOOL ENROLLMENTS	12,587	13,646	13,307	13,398	12,718	-7.39%

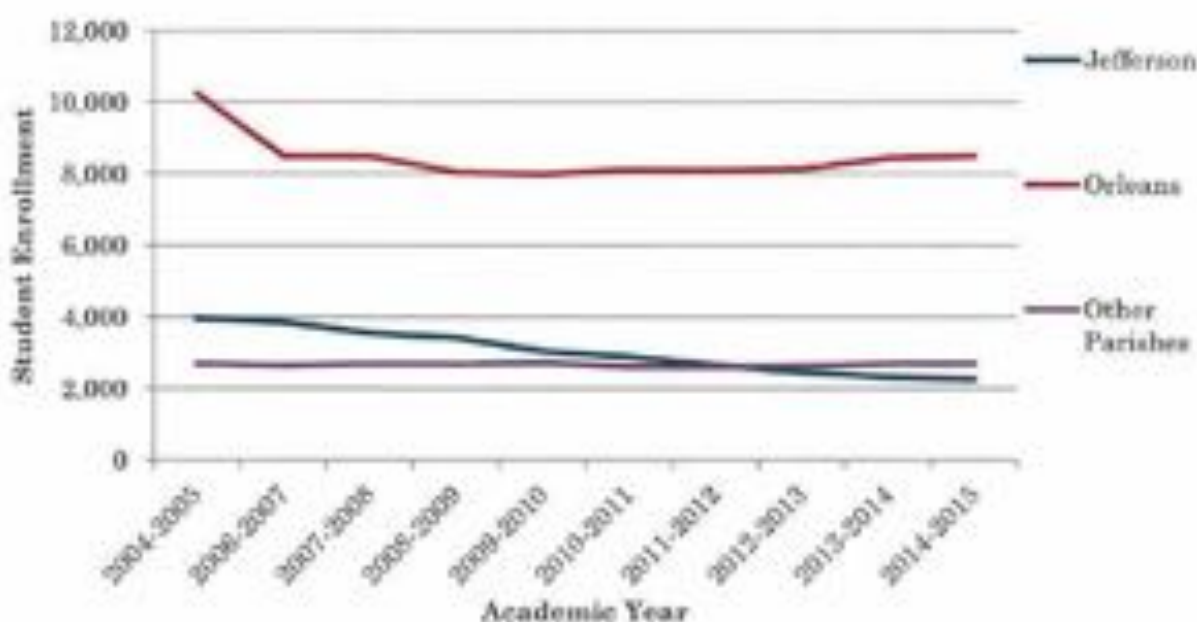
Rank	Private Schools in Jefferson Parish	School Enrollment 2004-2005	School Enrollment 2013-2014	School Enrollment 2013-2014	School Enrollment 2011-2012	School Enrollment 2009-2010	Percent Change in Enrollment 2014 vs. 2004
West	Academy of Our Lady	474	462	473	513	556	-11.87%
West	Archbishop Shaw Junior High School	118	123	129	154	179	-24.68%
West	Archbishop Shaw Senior High School	274	282	330	351	378	-21.54%
West	Arden Catholic Academy	494	423	430	417	368	-1.12%
West	Bellevue Life Christian Academy	CLOSED	CLOSED	CLOSED	CLOSED	367	
West	Christ The King Elementary School	300	353	369	371	339	-19.34%
West	Concordia Lutheran School	195	217	229	217	219	-18.37%
West	Conquering Word Christian	50	63	75	151	213	-60.13%
West	Faith Academy	66	44	83	106	136	-37.74%
West	Immaculate Conception School	285	618	675	738	747	-20.72%
West	Knights Academy and High School	42	43	59	62	58	-32.36%
West	Muslim Academy	228	218	180	181	179	19.37%
West	Our Lady Prompt Succor School	310	354	387	384	171	68.68%
West	Salem Lutheran School	CLOSED	CLOSED	CLOSED	CLOSED	241	
West	St. Anthony School	262	273	249	234	237	11.97%
West	St. Cletus Elementary School	520	563	579	553	455	-5.97%
West	St. Rosalie Elementary School	625	469	713	733	710	-14.30%
West	Stepping Stones Montessori School	73	67	47			
West	Weatherford Academy	<10	<10	New for 2012			
West	Vivian of Our Lady School	680	727	737	767	730	-11.54%
West	PRIVATE SCHOOL ENROLLMENTS	5,152	5,414	5,696	5,760	6,271	-19.34%
ALL	TOTAL PRIVATE SCHOOL ENROLLMENTS	17,774	18,460	18,603	19,378	19,389	-8.27%

Data Source: Louisiana Department of Education

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Enrollment in New Orleans Area Catholic Schools has decreased over 20% since Hurricane Katrina, with Jefferson Parish seeing their Catholic School enrollments cut almost in half.

### New Orleans Area Catholic School Enrollments by Parish





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## SCHOOL ENROLLMENT TRENDS: OTHER

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Homeschooling, unregistered private schools, school completion and lack of schooling can account for over 7,000-11,000 school aged children in Jefferson Parish. The U.S. Census Bureau American Community Survey (2013) reports there are 77,572 Jefferson Parish kids (3+ years of age or older) enrolled in a school. In 2015, the estimate 5-19 year old population is 79,964 children for Jefferson Parish.

For the 2014-2015 school year, 47,977 children were enrolled in JPPSS, with 17,775 enrolled in private school with the remaining Jefferson Parish school aged children in alternative schools, in unregistered private schools, graduated or dropped out, in private pre-schools and kindergartens, in home schools, or enrolled out of Parish.

Nationally, about 3% of the population is home-schooled. The opposition to Common Core appears to be the current rallying point for withdrawing students from public schools in Louisiana. Louisiana has not determined the exact number of home-schoolers but the number of students signing up through "registered private schools" has doubled in a decade, to 13,000.

In Louisiana, home-schoolers have three options for education: registered private schools, virtual charter schools, and home study. Currently there are 836 students in registered private schools in Jefferson Parish. Registered private schools are essentially family schools with 2.8 students (mostly siblings studying together) registered per school. Louisiana only requires families to register when children are 7, so there's no way to tell how many younger children are learning from home.



## PART 2: PROJECTING ENROLLMENT IN JEFFERSON PARISH

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This study employs a modified version of a commonly used demographic forecasting method, called the "co-hort survival method". It models future populations and school enrollments as outcomes of the life events occurring in populations over time. These events are comprised of births and migration patterns into- or out- of the area. Thus, the Parish population would grow when births outnumber deaths and more people move into the parish than leave it.

The co-hort survival method depends on the availability of accurate data on age and gender composition of the Parish's population. The most precise information about population structure of an area is usually provided by the most recent population census; the farther away from this known census population the forecast moves, the less certain its predictions. The model is also sensitive to the rates of "life events" applied to the known population cohorts. These rates are usually derived from the known data such as data provided by the Census, and then they are modified to account for the most recent trends as well as the likely future ones.

The population data the study used originated from the 2000 and 2010 Census of Population and ESRI 2015/2020 Forecasts; the National Center for Health Statistics and the Louisiana State Center for Health Statistics provided information on live birth rates, while the Jefferson Parish Public School System, the Louisiana Department of Education and the National Center for Education Statistics furnished past and current enrollment. Area to area migration data came from the Census Bureau and the Statistics of Income Division of the IRS.

These initial enrollment projections for Jefferson Parish Public Schools are developed using a modified co-hort survival projection analysis. A true co-hort survival is simply the rate of survival from one grade to the next. Kindergarten is determined by the number of "resident live births" multiplied by the average percent of Jefferson Parish Live Births reporting to Kindergarten five years later.

The variables of this formula are the number of resident live births in the Parish and the previous enrollments in the School System. This analysis has been further modified with the addition of effects of housing trends, economic trends, natural disasters and the population changes that result. This analysis is based on the assumption that what has happened in the past will continue to occur in the future which is valid because population shifts tend to occur gradually.

## HOUSING AND POPULATION GROWTH ASSUMPTIONS

Population growth assumptions are based on anticipated residential building activity. Anticipated residential building activity is new and proposed construction in Jefferson Parish. This number gives an estimate of the number of new residents, and based on the projected family size the construction targets, calculates the potential student yield to each school and the System in general.

We estimate that there will be little immediate change from current conditions, and that approximately 300 new single family housing units will be added annually in Jefferson Parish during the next five years. If this should occur, the Parish's population would increase by less than .02 percent annually between 2015 and 2020.

Enrollment projections can also be determined by analyzing the housing data for the areas that make up a school district. Yield factors can be established by comparing the historic change in enrollment from year to year divided by the total number of building or occupancy permits issued. For example, if student enrollment has increased by approximately 100 students each year and approximately 200 building permits have been issued each year for the past ten years, then the yield factor would be approximately .5 students per building permit.

Grade	2014-2015 Change in Enrollment	Yield	2013-2014 Change in Enrollment	Yield	2012-2013 Change in Enrollment	Yield	2011-2012 Change in Enrollment	Yield	2010-2011 Change in Enrollment	Yield	2009-2010 Change in Enrollment	Yield
Pre-Kindergarten	1	0.0284	140	0.0283	88	0.0281	9	0.0282	19	0.0291	88	0.0291
Kindergarten	279	0.4189	54	0.0285	222	0.1189	859	0.4821	1180	0.5019	47	0.0291
First Grade	120	0.3544	152	0.0290	254	0.0031	98	0.0291	204	0.1197	138	0.0292
Second Grade	165	0.1120	276	0.1120	151	0.1120	40	0.0294	118	0.0291	128	0.0292
Third Grade	84	0.0293	80	0.0293	48	0.0293	20	0.0293	51	0.0293	181	0.0291
Fourth Grade	49	0.0299	10	0.0292	127	0.0299	47	0.0299	241	0.0299	120	0.0292
Fifth Grade	176	0.1120	130	0.0294	88	0.0291	10	0.0297	103	0.1144	108	0.0295
Sixth Grade	72	0.1189	74	0.0294	84	0.0294	80	0.1193	80	0.0293	58	0.0294
Seventh Grade	202	0.0284	40	0.0295	8	0.0293	40	0.0287	9	0.0291	100	0.0291
Eighth Grade	180	0.0283	228	0.0294	100	0.0289	4	0.0293	20	0.0292	228	0.0291
Ninth Grade	412	0.0293	110	0.0290	170	0.0297	123	0.0294	400	0.1140	10	0.0292
Tenth Grade	170	0.0293	90	0.0298	280	0.0294	80	0.1144	100	0.0293	180	0.0292
Eleventh Grade	200	0.0289	180	0.0297	180	0.0289	180	0.0289	200	0.0289	80	0.0293
Twelfth Grade	124	0.1193	74	0.1193	186	0.1193	80	0.0293	110	0.0293	120	0.0291
Grand Total	1480	0.0283	248	0.0290	88	0.0289	180	0.0293	864	0.0289	248	0.0291

There is relative uncertainty about housing construction in the upcoming years, and actual construction of new housing depends on the local economic conditions and the demand for new housing. Given current housing conditions, we base population and school enrollment assumptions on a range of about 200 to 300 new single family housing units added each year during the next five years. If 300 new single family housing units are added each year in the School System, the System's population should increase by 1.0 percent each year, maintaining enrollment growth at close to recent levels.

Once yield factors are established, the number of new students per year can be estimated by multiplying the yield factor by the number of projected new housing units. The large amount of live births in 2007 and 2008 may be skewing the housing yield numbers in recent years to indicate a higher than average housing yields resulting in more school enrollments.

As of now, each new building permit in Jefferson Parish seems to indicate 1.5 students enrolled in the Jefferson Parish School System. Should the future population and housing trends deviate significantly from the assumptions presented here, they will affect this forecast. Yet, some components of population change are less sensitive to changes than others. Entry level housing, or lack thereof, seems to be the major factor in holding down the growth of Jefferson Parish.

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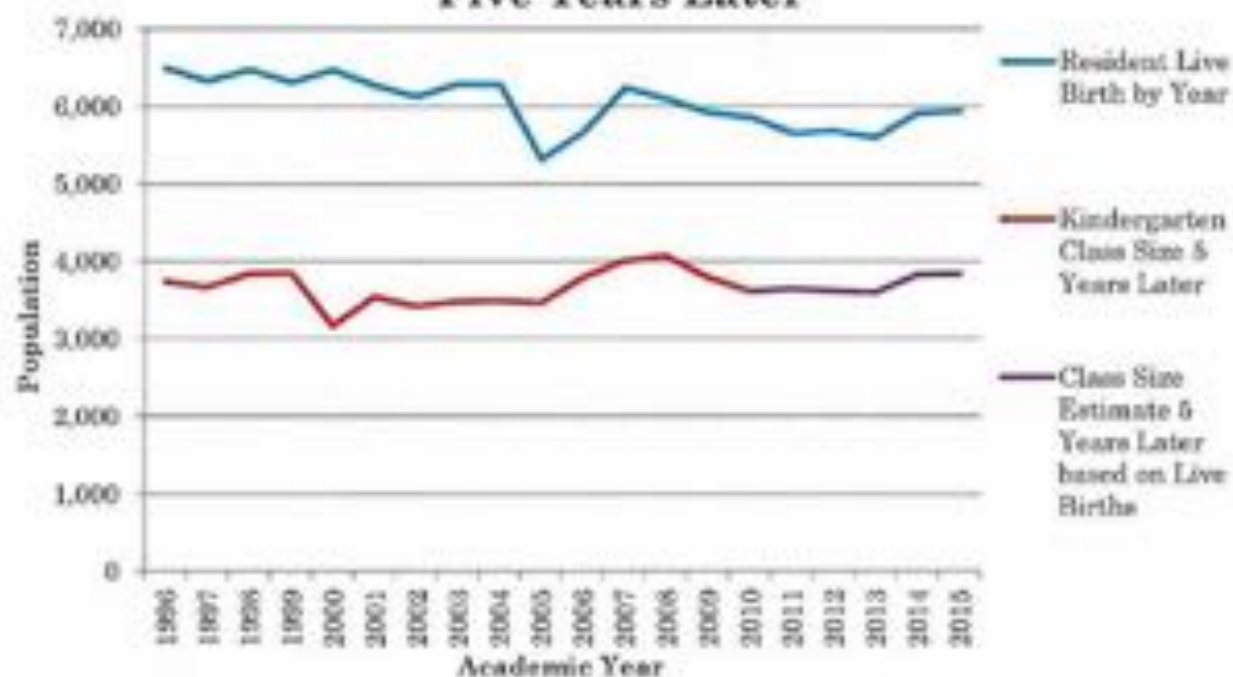
### LIVE BIRTH RATES

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Live Birth Rates tend to change more with time but still are reasonably stable indicators. The model uses a set of live birth rates for Jefferson Parish based on observed rates since 1996 and assumptions about their future levels. Live birth rates have, while varied, shown a spike and then leveling out in recent years in Jefferson Parish. If a greater proportion of in-migration were to include couples with higher fertility, this would increase overall future fertility levels and would lead to more students entering this school system.

The National Center for Health Statistics and the Louisiana State Center for Health Statistics provide the live birth numbers. "Resident live birth" does not mean a baby born in Jefferson Parish - it means a baby born to a resident of Jefferson Parish. The live birth number for 2014 is considered to be preliminary. As people move, many of those babies born to Jefferson Parish residents will not reside in the Parish five years later. In 2002, 6,124 live births were recorded as being born to mothers whose usual residence was Jefferson Parish. Those 6,124 live births equaled 3,415 students entering Kindergarten in Jefferson Parish Public Schools for a capture rate of 55.76% in 2007. In recent years, over sixty percent of the resident live births for a year have shown up in Jefferson Parish Public School kindergarten classes five years later. From 2011-2015, the West Bank has had an average capture rate of 70% while the East Bank has experienced an average capture rate of 60%.

## Live Births vs Kindergarten Class Size Five Years Later





Jefferson Parish Public School System: Projecting Enrollment by Number of Resident Live Births for Jefferson Parish						
Jefferson Parish Live Births By Mother's Place of Residence			Kindergarten Class Size			
Data: National Center for Health Statistics; Louisiana State Center for Health Statistics			Data: Louisiana Department of Education			
Year	Resident Live Birth	% change from previous year	Year	Class Size Actual	% of Live Births in class	Class Size Estimate based on Live Births*
2015**	5,940	0.47%	2020**		64.56%	3,833
2014	5,912	3.63%	2019**		64.62%	3,820
2013	5,596	-1.48%	2018**		64.23%	3,594
2012	5,680	0.49%	2017**		63.64%	3,613
2011	5,654	-3.40%	2016**		64.38%	3,640
2010	5,858	-1.01%	2015	3,608	61.59%	3,608
2009	5,918	-2.89%	2014	3,844	64.99%	3,844
2008	6,094	-2.31%	2013	4,058	66.59%	4,058
2007	6,238	10.10%	2012	4,002	64.10%	4,002
2006	5,666	6.66%	2011	3,790	66.89%	3,790
2005	5,312	-15.39%	2010	3,461	65.19%	3,461
2004	6,278	-0.14%	2009	3,489	55.58%	3,489
2003	6,287	2.66%	2008	3,477	55.30%	
2002	6,124	-2.38%	2007	3,415	55.30%	
2001	6,267	-3.11%	2006	3,537	56.44%	
2000	6,468	2.49%	2005	3,161	48.87%	
1999	6,311	-2.44%	2004	3,845	60.93%	
1998	6,469	2.34%	2003	3,833	59.29%	
1997	6,327	-2.54%	2002	3,666	57.94%	
1996	6,492		2001	3,733	57.90%	

\* Live Birth multiplied by the average percent of Jefferson Parish Live Births reporting to Kindergarten 5 years later

"Resident live birth" does not mean a baby born in Jefferson Parish - it means a baby born to a resident of Jefferson Parish. The National Center for Health Statistics and the Louisiana State Center for Health Statistics provide these numbers. As people move, many of these babies born to Jefferson Parish residents won't be here five years later. In 2002, 6124 live births were recorded as being born to mother's whose usual residence was Jefferson Parish. Typically about 50-60 percent of the resident live births for a year actually show up in kindergarten classes five years later.

Prepared by Villavaso & Associates, LLC (November 2015)

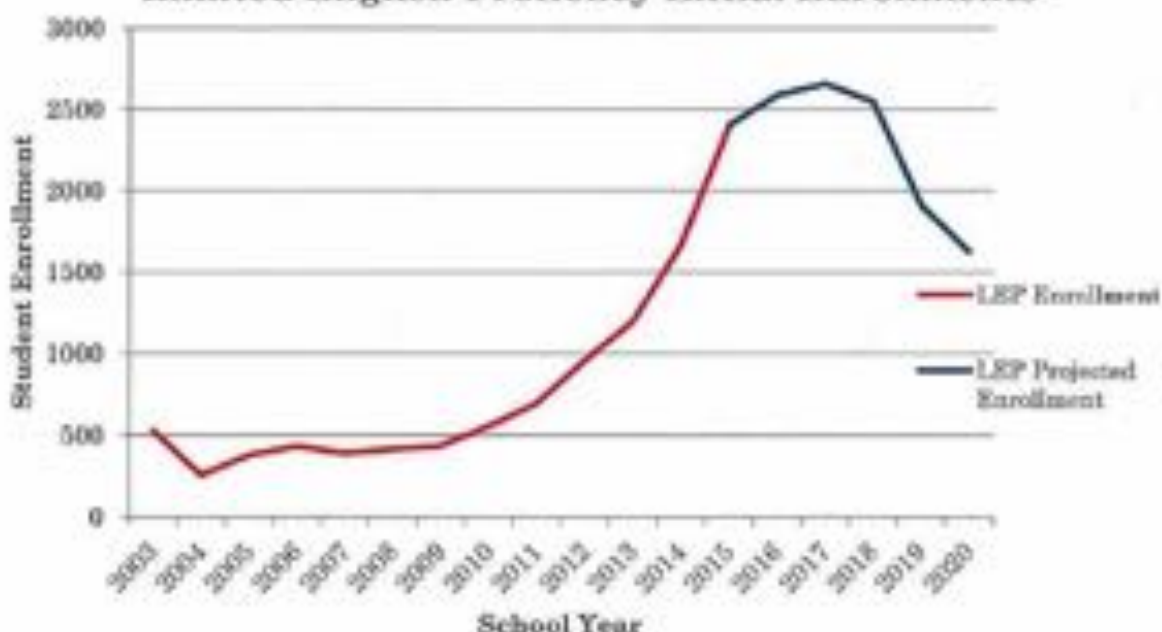
\*\* Base Number Projection

## MIGRATION

Net migration rates used in the co-hort survival model can be interpreted as the number of people who are added to (or subtracted from) a given co-hort per each 100 persons due to migration over a given time period (in our case, five years). The net migration rates used to forecast the Parish's future school population will be modified to reflect most likely future migration patterns. Our study, at present, shows that migration will positively impact the rates of population and new enrollment growth in the Jefferson Parish Public School System as more international migrants make their homes in Jefferson Parish.

Using LEP new enrollments and the residual method, Jefferson Parish Public Schools System's in-migration growth from international sources is increasing at a vital rate. However, Jefferson Parish is also experiencing an internal out-migration, residents leaving Jefferson Parish for other parishes and states, which has the potential to lessen overall school enrollment growth in Jefferson Parish. Current national and state trends and projections in international immigrations seem to suggest a slight increase then tapering off of foreign born immigrants in the next several years.

**Jefferson Parish Public Schools  
Limited English Proficiency Initial Enrollments**

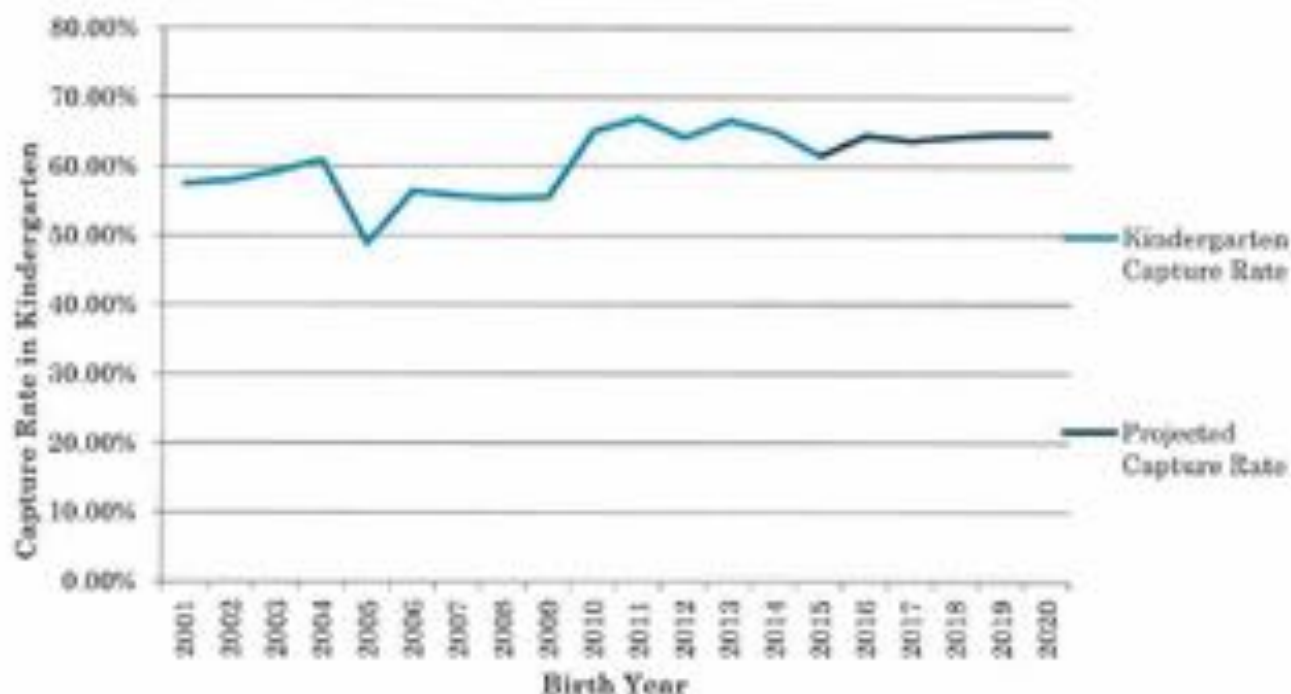


## CAPTURE RATES

Analyzing data on 2010-2015 enrollments, numbers of home-schooled children, and students in private schools led us to estimate the capture rate for the Jefferson Parish Public School System at a level of close to 62 percent overall, a 3.5% decrease in the past five years since 2010. This means that six out of ten born to mothers residing in Jefferson Parish go on to attend Kindergarten in Jefferson Parish Public Schools.

On the East Bank, the numbers are currently smaller, with a capture rate of close to 56 percent but the West Bank has a higher capture rate of almost 70 percent. The moderate and high-growth scenarios discussed in the next section assume that the capture rates will marginally increase for the 2015-2020 timeframe as slightly more students attend public school instead of private school.

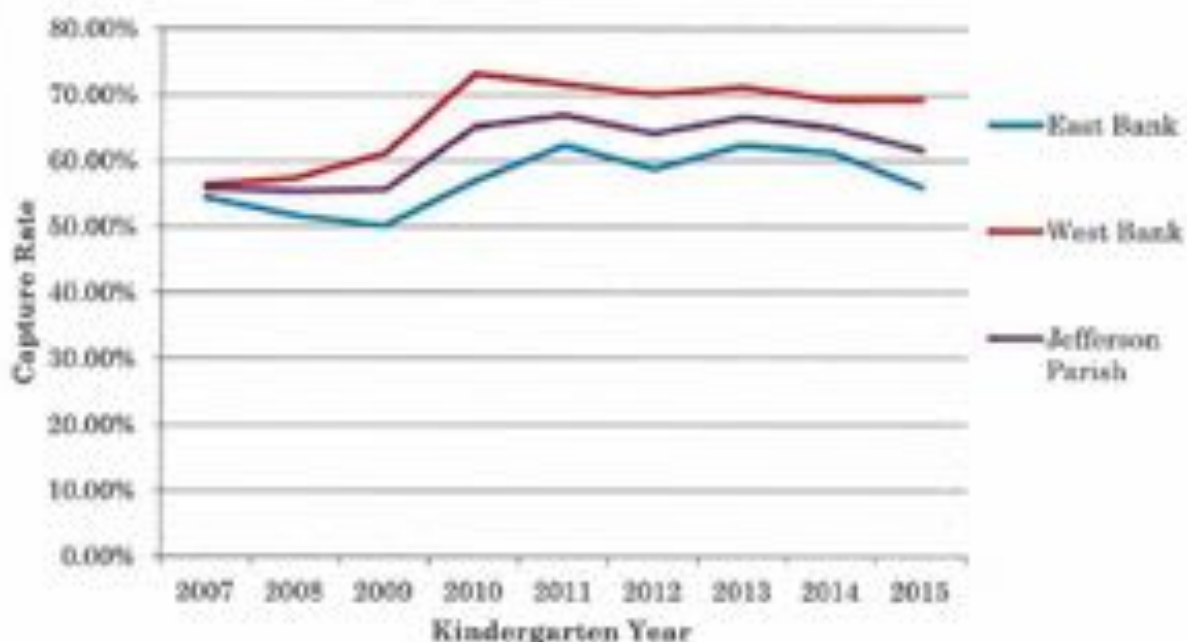
### Birth Year to Kindergarten Capture Rates



The Jefferson Parish Public School System is devising programs to make public school more attractive to those living in Jefferson Parish and has been making strides to increase enrollment. For example, the past school year the system opened several charter schools. With possible additions of more magnet, arts, and/or science schools in the Jefferson Parish Public School System, this capture rate should have minor increases in the years ahead.



### Jefferson Parish Kindergarten Capture Rates



The smaller the forecasted population, the higher the probability of an error associated with any forecast: an unforeseen change of 10 people in a population of 100 will be more noticeable than that in a population of 10,000. Due to the small size of the cohorts, each grade in an elementary attendance area was forecasted to grow at the same rate as the area itself, an assumption that rarely holds true in reality.

The table below shows the relation of the live birth rate and the Under 5 population to Kindergarten enrollment. In Jefferson Parish, the Live Birth Rate is roughly 1.3 to 1.4 percent of the entire population and about 20.6 percent of the Under 5 Years population.

Jefferson Parish Public School System: Live Births in relation to Kindergarten Enrollment and Under 5 Population								
Year	Population	Current Year Live Birth Rate	Live Birth as % of population	Under 5 population	Live Birth Percent of under 5 pop	Live Birth as % Under 5	Current Year Kindergarten Class Size	Kindergarten class size as a percent of US population
2001	453,154	6,297	1.39%	29,813	21.12%	6,297	3,733	12.82%
2002	453,429	6,124	1.35%	29,919	20.47%	6,124	3,666	12.25%
2003	454,533	6,287	1.38%	30,202	20.82%	6,504	3,833	12.69%
2004	456,602	6,278	1.37%	30,609	20.68%	6,278	3,845	12.64%
2005	456,554	5,312	1.16%	30,699	17.30%	5,312	3,161	10.30%
2006	456,785	5,666	1.23%	31,468	22.27%	5,666	3,537	13.90%
2007	452,683	6,238	1.44%	27,384	22.78%	6,238	3,360	12.27%
2008	431,739	6,094	1.41%	28,422	21.44%	6,094	3,442	12.11%
2009	431,921	5,918	1.37%	28,368	20.86%	5,918	3,489	12.30%
2010	432,882	5,858	1.35%	28,566	20.65%	5,858	3,461	12.28%
2011	433,426	5,654	1.30%	28,339	19.95%	5,654	3,790	13.37%
2012	433,577	5,680	1.31%	27,832	20.41%	5,680	4,002	14.38%
2013	434,767	5,596	1.29%	27,164	20.60%	5,596	4,058	14.94%
2014	435,716	5,912	1.36%	27,293	21.66%	5,912	3,844	14.08%
2015	435,786	5,940	1.36%	26,608	22.25%	5,940	3,608	13.51%
2016	435,855	5,822	1.34%	27,052	21.23%	5,743	3,803	14.06%
2017	435,925	5,828	1.34%	27,014	21.44%	5,791	3,833	14.19%
2018	435,995	5,870	1.34%	26,921	21.64%	5,827	3,637	13.67%
2019	436,064	5,879	1.33%	26,995	21.64%	5,842	3,732	13.82%
2020	436,134	5,818	1.33%	26,516	21.49%	5,897	3,713	14.00%

Numbers in bold are actual Census, Health and Education statistics. All other numbers are estimates and projections.

Numbers in Italics are F.B.I. estimates.

Prepared and Updated by Villavaso & Associates, LLC (November 2015)

The projections above were prepared using a modified demographic multiplier method. This method was based on an evaluation of the population residing in the school district. This method assumes that the grade populations of school aged children will increase or decrease at the same rate as the general population. Multiplying the annual school enrollment by the average projected population growth rate for the period 2010-2015 derived the enrollment projections and serves as the basis of our Moderate Growth Assumptions.

Co-hort survival is a straight line method of projecting school enrollment numbers. As population numbers can fluctuate from year to year, they can also vary from school to school, and even from grade year to grade year. As shown in the following table, co-hort survival rates change from one grade to the next, especially in a school district the size of Jefferson Parish.

Jefferson Parish Public School System Cohort Analysis and Survival							
School Year	2010-2011*	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
Live Births	5,854	5,918	6,094	6,238	6,466	6,712	6,278
Birth Year	2010	2009	2008	2007	2006	2005	2004
Cohort Survival: Birth - Pre-K	0.36417	0.22222	0.22594	0.25412	0.25264	0.24446	0.21822
Pre-Kindergarten	2,059	1,952	2,012	2,158	2,206	2,203	2,280
Cohort Survival: Pre-K - K	0.61291	0.64924	0.66590	0.69132	0.66398	0.63134	0.63273
Kindergarten	3,409	3,544	4,055	4,892	3,790	3,463	3,489
Cohort Survival: K - 1	1.02342	1.09093	1.06172	1.09296	1.04264	1.02292	1.12269
First Grade Students	4,834	4,363	4,753	4,191	3,747	3,543	3,545
Cohort Survival: 1 - 2	0.24382	0.31363	0.36172	0.37332	0.36228	0.36321	0.37377
Second Grade Students	4,139	4,193	3,941	3,668	3,700	3,746	3,654
Cohort Survival: 2 - 3	0.29494	1.00000	0.26201	0.39428	0.39322	1.00000	1.00000
Third Grade Students	4,155	3,969	3,613	3,643	3,691	3,669	3,576
Cohort Survival: 3 - 4	0.37369	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000
Fourth Grade Students	3,845	3,733	3,812	3,831	3,958	3,911	3,923
Cohort Survival: 4 - 5	0.36236	0.32396	0.40000	0.37347	0.36028	0.32298	0.32089
Fifth Grade Students	3,596	3,543	3,328	3,453	3,363	3,350	3,192
Cohort Survival: 5 - 6	0.33427	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000
Sixth Grade Students	3,539	3,356	3,489	3,418	3,423	3,295	3,202
Cohort Survival: 6 - 7	0.39778	1.00172	0.32476	0.32542	0.37221	1.00281	0.37523
Seventh Grade Students	3,315	3,495	3,195	3,201	3,107	3,211	3,062
Cohort Survival: 7 - 8	1.00000	1.00000	1.00000	0.33437	0.34579	0.33762	0.33537
Eighth Grade Students	3,035	3,341	3,097	3,179	3,019	3,049	3,051
Cohort Survival: 8 - 9	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000
Ninth Grade Students	3,720	3,366	3,599	3,361	3,532	3,698	3,651
Cohort Survival: 9 - 10	0.36713	0.32917	0.33248	0.74466	0.73091	0.34781	0.33644
Tenth Grade Students	3,243	2,907	2,747	2,608	2,949	2,912	2,874
Cohort Survival: 10 - 11	0.37695	0.66712	0.36827	0.37637	0.32229	0.33762	0.37642
Eleventh Grade Students	2,810	2,428	2,416	2,383	2,696	2,551	2,501
Cohort Survival: 11 - 12	1.00000	1.00000	0.39677	0.32417	1.00000	0.33662	0.37687
Twelfth Grade Students	2,448	2,471	2,559	2,485	2,593	2,390	2,332
Total Enrollment Pre-K through Twelfth Grade	48,696	47,420	46,325	45,783	45,883	45,253	44,781

Prepared by Villavaso & Associates, LLC December 2015

## PRE-KINDERGARTEN CAPTURE RATES

Typically, birth rates can be used to calculate pre-kindergarten capture rates. However in Jefferson Parish, this is not feasible due to the fluid nature of the Pre-Kindergarten program in general. Except for the past few years, the Pre-Kindergarten program has been subject to the vagaries of upper grade enrollments, meaning the Pre-Kindergarten classrooms move locations depending on the enrollment and classroom needs of the higher grades. However, a strong Pre-Kindergarten program leads to a higher Kindergarten capture rates.

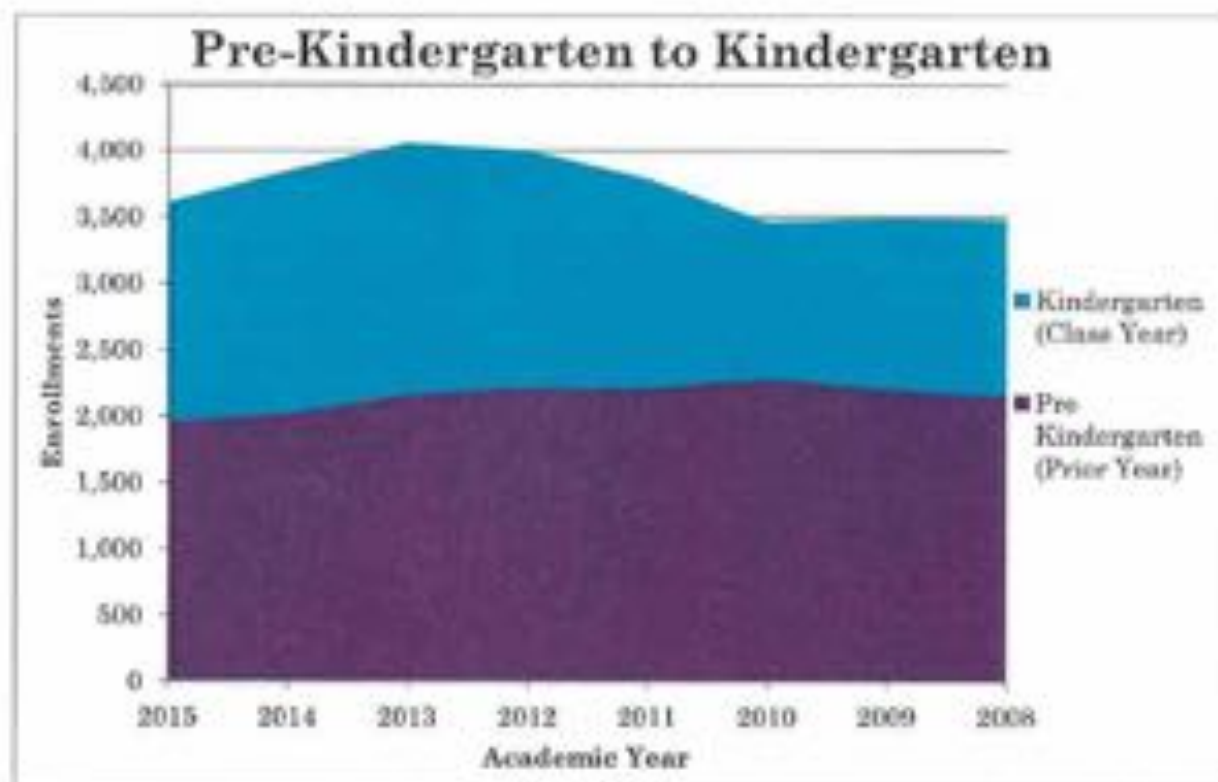


Jefferson Parish Public School System: Pre-Kindergarten to Kindergarten Co-hort Survival			
Kindergarten Year	Kindergarten Enrollment (Class Year)	Pre Kindergarten (Prior Year)	Co-hort Survival Rate
2015	3,608	1,952	1.85
2014	3,844	2,012	1.91
2013	4,068	2,158	1.88
2012	4,002	2,206	1.81
2011	3,790	2,201	1.72
2010	3,461	2,280	1.52
2009	3,489	2,191	1.59
2008	3,477	2,147	1.62

Prepared by Villavaso & Associates, LLC (November 2015)

Data Source: Jefferson Parish Public School System

In recent years the Pre-Kindergarten programs in Jefferson Parish Public School System have been stable, meaning the children that go to Pre-Kindergarten are reasonably assured they will attend Kindergarten in the same school. When this happens, more children attend Kindergarten when the Pre-Kindergarten classrooms in the same campus as Kindergarten classes and more students stay in the Jefferson Parish Public School System.

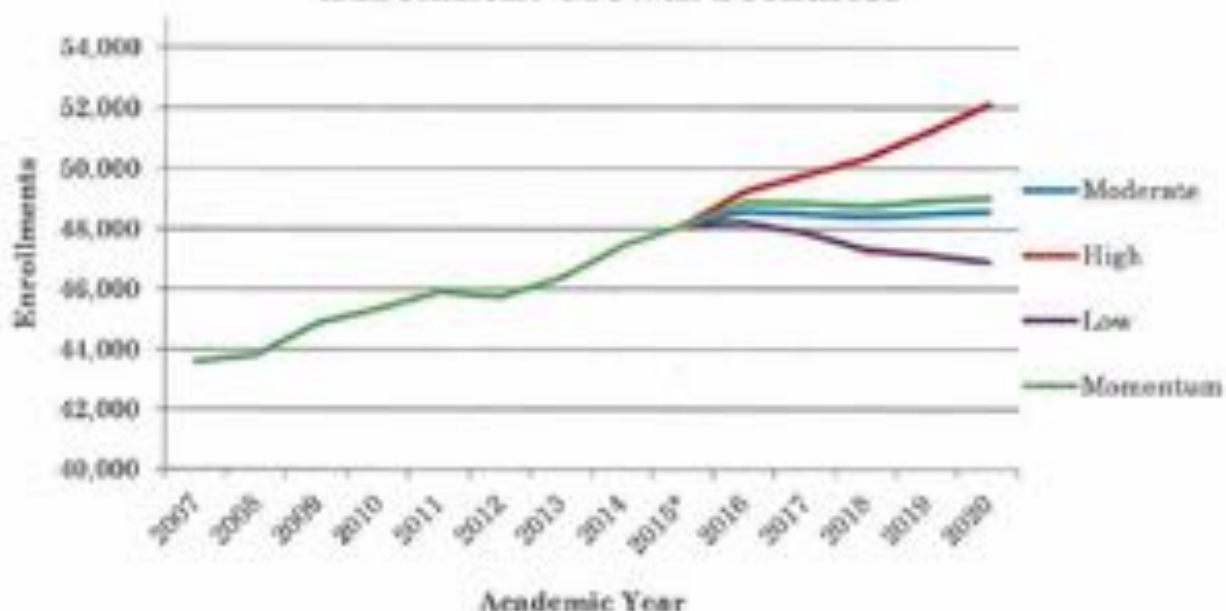


## PART 3: GROWTH SCENARIOS

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Four growth scenarios (moderate, high, low, and momentum) are assumed for these enrollment forecasts. The next section describes the assumptions made for each of the four scenarios. As discussed in this document, each growth scenario -- moderate, high, low, and momentum growth -- predicts that the Jefferson Parish Public School System enrollment will increase over the forecast horizon.

### Jefferson Parish Public Schools Enrollment Growth Scenarios



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### MODERATE (BASELINE) GROWTH ASSUMPTIONS

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The Moderate Growth model is a baseline model that projects enrollments using the assumption that average trends from the last five years, will continue into the future and that births will continue to remain over the next five years at a pace similar to that of the last several years. It is an average growth model that generally assumes that average trends of the past will continue into the future.

- Moderate population gains
- Modest gains in housing starts
- Slight increases in private school transfers
- Economic stability

With the moderate growth assumptions, we expect a leveling in enrollments. Jefferson Parish may see modest increases due to more students enrolling in public school versus private school, more parents enrolling students in Jefferson Parish's special curriculum schools, but a leveling off in Kindergarten enrollments, and no gains from live births. Even

if private school enrollment reverses course or more students are homeschooled and population growth continues at a very modest rate, Jefferson Parish Public's school enrollments would remain constant.

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### HIGH GROWTH ASSUMPTIONS

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High Growth Assumptions use progression ratios from the last two years to project what future enrollments would look like if recent high growth patterns were representative of future trends. The model also assumes that births in Jefferson Parish will reverse trend and increase over the next five years. Similarly to the Low Growth model, the High Growth model might also serve as a point of comparison against the Moderate Growth model, as High Growth is meant to represent the highest enrollment counts that could reasonably be expected over the next several years. The model assumes that the housing market will increase dramatically and that in-migration to the district area will increase.

- Increases in population
- Continued gains in housing starts
- Greater than expected private school transfers
- High Kindergarten captures from Pre-Kindergarten
- Continued success and expansion of special curriculum programs
- Economic growth

Based on the high growth assumption, we expect an initial jump in enrollment followed by periods of moderate increases in enrollments. This possible initial jump in enrollment would be due to a complete combination of all the following factors: less students (500 or more fewer students) enrolling in private schools due to economic hardships, the great success of special curriculum schools (Arts, Science, Magnet schools, etc.) in Jefferson Parish Public Schools, the natural increase in populations, and the continued economic stability of the area. As the Middle School population increases, High School populations show the greatest declines and those students will soon age out of the Jefferson Parish Public School System. As the greatest population growth is projected to be in the 10-14 Years age group, these are the up and coming students in Jefferson Parish that will stretch the limits of the school system.

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### LOW GROWTH ASSUMPTIONS

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The Low Growth Projection model assumes that the recent downturn in housing development will further reduce net migration to Jefferson Parish, this downturn will continue for the foreseeable future, and any growth will taper off over the next several years.

Future births are decreasing from their 2012 count, and the birth to kindergarten ratio is held at one of the lower ratios experienced in the district in the last five years. Overall, this model is meant to serve as a point of comparison with the other models or as a lowest reasonable enrollment scenario. Future enrollment patterns will likely only follow this



trend over the long term if the current housing market downturn is prolonged for several years or if some other unexpected change reduces in-migration to the district area.

- No population growth
- No increase in housing starts
- Limited private school transfers
- Weak economy
- Continued in-migration decline

With the low growth assumptions, we expect decreasing changes in student enrollments. These projections are based on recent historic trends in births and population as well as trends in the progression of students from one grade to the next. Jefferson Parish should see some loss due to a reduction in the population overall, little to no new construction, no private school transfers, and a weakening economy.

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### **MOMENTUM ASSUMPTION**

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Demographers use the term "population momentum" to refer to population growth that occurs after the factors driving the growth (e.g. high birth rates or high transfer rates) have subsided. For instance, when birth rates are high, the age structure of the population is young, and even if the number of births *per woman* declines, the number of births *overall* can continue to increase for a period of time because the number of women in their prime childbearing years continues to increase over a lag period. The same concept applies to school enrollment changes in Jefferson Parish.

Even though the housing development has slowed dramatically and evidence suggests that transfer rates may be slowing as well, the momentum of those children already enrolled in the system and the young families who recently moved into the area might continue to affect school enrollment over the next few years.

- Birth rates picking back up in 4 years
- Small gains in immigration
- Continued elevated Kindergarten enrollments
- Significant Kindergarten captures from Pre-Kindergarten
- Small housing growth
- Economic stability

Following this concept, the Momentum model assumes that the birth numbers and birth to kindergarten ratios of the last few years will continue over the next two years (following the momentum of recent school program changes), then decline somewhat as the force of low housing development years (2008-2013) makes its impact on district enrollment but then picking back up as higher birth rates come into play. More specifically, Kindergarten and lower grade enrollments will be reasonably high over the next two years but decline as time passes but rise based on the 2014-2015 birth rates. Middle school populations will increase

as those high birth rate years of 2007-2009 will affect the system as those children age into the middle school grades. The other grade progression ratios are held to the last three year average.

We think the amount of housing and population growth forecast for the School System will produce modest enrollment increases over the next decade using the momentum model. It should be emphasized that the model forecasts short and long-term school enrollment levels and may not necessarily be accurate on a year-to-year basis.

The differences between the low, medium, high, and momentum assumptions become more pronounced after a few years. In the immediate one or two years, there are relatively modest differences between the momentum, low and moderate growth assumptions, while the high growth assumption is significantly more than the three. Moreover, after a few years, it will become apparent whether the School System's population resumes more rapid growth or continues with somewhat lower growth levels.

Jefferson Parish School Enrollment Projections: Live Birth Rate and Modified Co-Hort Survival Method																
Mathematical Model (Assumptions) Assumptions																
School Year	Birth Year	Pre-K-3 Enrollment	Live Births	Pre-K Enrollment	Kindergarten Age	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade	Sixth Grade	Seventh Grade	Eighth Grade	Ninth Grade	Tenth Grade	Twelfth Grade
2020-21	2020	24,176	3,097	3,097	3,097	1,754	1,754	1,754	1,754	1,754	1,754	1,754	1,754	1,754	1,754	1,754
2021-22	2021	23,585	3,095	3,095	3,095	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752
2022-23	2022	23,139	3,064	3,064	3,064	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743
2023-24	2023	22,856	3,046	3,046	3,046	1,737	1,737	1,737	1,737	1,737	1,737	1,737	1,737	1,737	1,737	1,737
2024-25	2024	22,837	3,044	3,044	3,044	1,736	1,736	1,736	1,736	1,736	1,736	1,736	1,736	1,736	1,736	1,736
2025-26	2025	22,344	3,114	3,114	3,114	1,784	1,784	1,784	1,784	1,784	1,784	1,784	1,784	1,784	1,784	1,784
2026-27	2026	22,878	3,095	3,095	3,095	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752
2027-28	2027	21,126	3,152	3,152	3,152	1,785	1,785	1,785	1,785	1,785	1,785	1,785	1,785	1,785	1,785	1,785
2028-29	2028	20,310	3,241	3,241	3,241	1,852	1,852	1,852	1,852	1,852	1,852	1,852	1,852	1,852	1,852	1,852
2029-30	2029	20,436	3,265	3,265	3,265	1,872	1,872	1,872	1,872	1,872	1,872	1,872	1,872	1,872	1,872	1,872
2030-31	2030	19,225	3,125	3,125	3,125	1,745	1,745	1,745	1,745	1,745	1,745	1,745	1,745	1,745	1,745	1,745
2031-32	2031	18,438	3,029	3,029	3,029	1,694	1,694	1,694	1,694	1,694	1,694	1,694	1,694	1,694	1,694	1,694
2032-33	2032	18,454	3,026	3,026	3,026	1,692	1,692	1,692	1,692	1,692	1,692	1,692	1,692	1,692	1,692	1,692
Jefferson Parish School Enrollment Projections: Live Birth Rate and Modified Co-Hort Survival Method																
High Growth Assumptions																
School Year	Birth Year	Pre-K-3 Enrollment	Live Births	Pre-K Enrollment	Kindergarten Age	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade	Sixth Grade	Seventh Grade	Eighth Grade	Ninth Grade	Tenth Grade	Twelfth Grade
2020-21	2020	24,176	3,097	3,097	3,097	1,754	1,754	1,754	1,754	1,754	1,754	1,754	1,754	1,754	1,754	1,754
2021-22	2021	24,396	3,095	3,095	3,095	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752
2022-23	2022	23,906	3,064	3,064	3,064	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743
2023-24	2023	23,454	3,046	3,046	3,046	1,737	1,737	1,737	1,737	1,737	1,737	1,737	1,737	1,737	1,737	1,737
2024-25	2024	23,099	3,044	3,044	3,044	1,736	1,736	1,736	1,736	1,736	1,736	1,736	1,736	1,736	1,736	1,736
2025-26	2025	22,344	3,114	3,114	3,114	1,784	1,784	1,784	1,784	1,784	1,784	1,784	1,784	1,784	1,784	1,784
2026-27	2026	22,038	3,095	3,095	3,095	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752	1,752
2027-28	2027	21,126	3,152	3,152	3,152	1,785	1,785	1,785	1,785	1,785	1,785	1,785	1,785	1,785	1,785	1,785
2028-29	2028	20,310	3,241	3,241	3,241	1,852	1,852	1,852	1,852	1,852	1,852	1,852	1,852	1,852	1,852	1,852
2029-30	2029	19,225	3,125	3,125	3,125	1,745	1,745	1,745	1,745	1,745	1,745	1,745	1,745	1,745	1,745	1,745
2030-31	2030	18,438	3,029	3,029	3,029	1,694	1,694	1,694	1,694	1,694	1,694	1,694	1,694	1,694	1,694	1,694
2031-32	2031	18,454	3,026	3,026	3,026	1,692	1,692	1,692	1,692	1,692	1,692	1,692	1,692	1,692	1,692	1,692

Prepared by Villavaso & Associates, LLC (November 2018)

\*2018 Enrollment Numbers are Preliminary Projections



# Jefferson Parish School Enrollment Projections: Live Birth Rate and Modified Co-Hort Survival Method

Live Birth Rate Assumption

School Year	Pre K-12 Enrollment	Live Births	Pre-Kindergr. Enr.	Kindergarten Enr.	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade	Sixth Grade	Seventh Grade	Eighth Grade	Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
2022/23	22,495	3,097	966	1,340	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2023/24	22,508	3,095	966	1,340	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2024/25	22,475	3,064	970	1,313	1,025	1,302	1,580	1,847	2,124	2,400	2,676	2,952	3,228	3,504	3,780	4,056
2025/26	22,422	2,946	979	1,260	976	1,250	1,527	1,794	2,061	2,328	2,595	2,862	3,129	3,396	3,663	3,930
2026/27	22,336	2,804	976	1,206	921	1,200	1,472	1,739	2,006	2,273	2,540	2,807	3,074	3,341	3,608	3,875
2027/28	22,344	3,114	964	1,341	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2028/29	22,038	3,096	1,003	1,365	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2029/30	21,126	3,152	1,030	1,365	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2030/31	20,610	3,243	1,045	1,365	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2031/32	20,486	3,868	1,076	1,365	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2032/33	20,097	3,731	1,119	1,365	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2033/34	19,977	3,133	1,169	1,365	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2034/35	19,125	3,133	1,169	1,365	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2035/36	18,136	3,825	1,200	1,365	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2036/37	18,184	3,736	1,200	1,365	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082

# Jefferson Parish School Enrollment Projections: Live Birth Rate and Modified Co-Hort Survival Method

Modified Assumption

School Year	Pre K-12 Enrollment	Live Births	Pre-Kindergr. Enr.	Kindergarten Enr.	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade	Sixth Grade	Seventh Grade	Eighth Grade	Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
2022/23	22,495	3,097	966	1,340	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2023/24	22,545	3,095	966	1,340	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2024/25	22,554	3,064	970	1,313	1,025	1,302	1,580	1,847	2,124	2,400	2,676	2,952	3,228	3,504	3,780	4,056
2025/26	22,614	2,946	979	1,260	976	1,250	1,527	1,794	2,061	2,328	2,595	2,862	3,129	3,396	3,663	3,930
2026/27	22,678	2,904	979	1,260	976	1,250	1,527	1,794	2,061	2,328	2,595	2,862	3,129	3,396	3,663	3,930
2027/28	22,344	3,114	964	1,341	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2028/29	22,038	3,096	1,003	1,365	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2029/30	21,126	3,152	1,030	1,365	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2030/31	20,610	3,243	1,045	1,365	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2031/32	20,486	3,868	1,076	1,365	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2032/33	19,997	3,731	1,119	1,365	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2033/34	19,675	3,133	1,169	1,365	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2034/35	19,426	3,825	1,200	1,365	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082
2035/36	18,184	3,736	1,200	1,365	1,052	1,329	1,607	1,874	2,150	2,426	2,702	2,978	3,254	3,530	3,806	4,082

Prepared by Villavaso & Associates, LLC (December 2015)

\*2011 Maryland Post-Natal and Infant Mortality Report

## Jefferson Parish School Enrollment Projections: Live Birth Rate and Modified Co-Mort Survival Method

Molecular weight (Molecular weight) Molecular weight (Molecular weight)

[illegible]

## Jefferson Parish School Enrollment Projections: Live Birth Rate and Modified Co-Hort Survival Method

High Growth Industries

School Year	Rank	Pre K-12 Enrollment	Live Members	Per Capita Contribution	Kindergrgs	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade	Sixth Grade	Seventh Grade	English Grade	Math Grade	Health Grade	Twelfth Grade
2000-01	1st	27,110	2,642	1.16	2,861	2,169	1,911	2,624	2,641	1,921	1,918	2,002	2,137	2,191	1,969	1,711
2001-02	1st	26,557	2,817	1.107	2,854	2,192	2,020	2,631	2,671	1,912	2,129	2,072	1,951	2,137	1,879	1,712
2002-03	1st	26,406	2,632	1.038	1,861	2,193	2,063	1,885	1,992	2,000	2,112	1,921	1,924	2,031	1,781	1,791
2003-04	1st	26,106	2,724	1.047	1,950	2,062	1,901	1,981	2,156	2,003	1,954	1,902	1,893	2,106	1,722	1,700
2004-05	1st	25,110	2,709	1.080	1,873	2,025	1,997	2,191	2,171	1,926	1,929	1,899	1,822	1,890	1,826	1,611
2005-06	1st	25,152	2,709	1.080	1,897	2,076	2,193	2,165	2,641	1,902	1,900	1,793	1,822	2,031	1,785	1,611
2006-07	1st	25,192	2,816	1.09	1,907	2,253	2,145	2,674	1,898	1,900	1,907	1,917	1,904	2,013	1,854	1,611
2007-08	1st	25,126	2,843	1.053	2,891	1,717	2,065	1,947	2,097	1,786	1,975	1,810	1,922	1,910	1,799	1,492
2008-09	1st	25,196	2,997	1.113	2,585	2,139	2,001	2,611	2,201	1,964	1,913	1,814	1,781	1,871	1,693	1,397
2009-10	1st	25,426	2,798	1.108	2,893	2,069	2,619	2,613	2,266	1,908	1,972	1,837	1,640	1,971	1,693	1,411
2010-11	1st	25,136	2,607	1.083	1,907	1,717	1,746	2,651	2,305	1,913	1,713	1,795	1,716	2,102	1,971	1,352
2000-01	2nd	25,508	3,145	1.117	1,941	2,224	2,677	2,658	2,272	1,907	1,884	1,738	2,024	1,970	1,654	1,397
2001-02	2nd	25,162	2,498	1.071	1,964	2,116	2,603	2,611	2,351	1,798	1,737	1,685	1,817	2,004	1,626	1,222
2002-03	2nd	25,110	1,808	1.006	1,867	1,109	2,063	1,876	1,297	1,556	2,113	1,915	1,911	1,891	1,771	1,181

Prepared by: Vikram K. Arora, LL.D. December 2010

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# Jefferson Parish School Enrollment Projections: Live Birth Rate and Modified Co-Hort Survival Method

Live Birth Rate Assumption

School Year	Birth Year	Pre-K-13 Enrollment	Live Births	Pre Kindergarten	Kindergarten	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade	Sixth Grade	Seventh Grade	Eighth Grade	Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
2010-11	2010	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2011-12	2011	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2012-13	2012	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2013-14	2013	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2014-15	2014	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2015-16	2015	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2016-17	2016	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2017-18	2017	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2018-19	2018	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2019-20	2019	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2020-21	2020	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2021-22	2021	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400

# Jefferson Parish School Enrollment Projections: Live Birth Rate and Modified Co-Hort Survival Method

Modified Assumptions

School Year	Birth Year	Pre-K-13 Enrollment	Live Births	Pre Kindergarten	Kindergarten	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade	Sixth Grade	Seventh Grade	Eighth Grade	Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
2010-11	2010	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2011-12	2011	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2012-13	2012	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2013-14	2013	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2014-15	2014	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2015-16	2015	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2016-17	2016	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2017-18	2017	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2018-19	2018	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2019-20	2019	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2020-21	2020	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400
2021-22	2021	24,400	2,412	3,116	3,065	3,007	2,951	2,895	2,840	2,785	2,730	2,675	2,620	2,565	2,510	2,455	2,400

Prepared by Villavaso & Associates, LLC (November 2018)

\*2015 Enrollment Numbers are Preliminary Projections



# Jefferson Parish School Enrollment Projections: Live Birth Rate and Modified Co-Hort Survival Method

Modestine (Maestros) Assumption

School Year	Pre K-13 Enrollment	Live Births	Pre Kindergarten	Kindergarten	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade	Sixth Grade	Seventh Grade	Eighth Grade	Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
2010/11	48,914	5,915	2,092	2,248	3,360	3,679	3,685	3,787	3,828	3,735	3,632	3,521	3,425	3,319	3,203	3,087
2011/12	48,794	5,915	2,072	2,228	3,340	3,659	3,665	3,767	3,808	3,715	3,612	3,501	3,405	3,299	3,183	3,067
2012/13	48,425	5,906	2,051	2,207	3,319	3,638	3,644	3,746	3,787	3,694	3,591	3,480	3,384	3,278	3,162	3,046
2013/14	48,473	5,895	2,030	2,186	3,298	3,617	3,623	3,725	3,766	3,673	3,570	3,459	3,363	3,257	3,141	3,025
2014/15	48,556	5,874	2,109	2,165	3,277	3,596	3,602	3,704	3,745	3,652	3,549	3,438	3,342	3,236	3,120	3,004
2015/16	48,097	5,854	2,088	2,144	3,256	3,575	3,581	3,683	3,724	3,631	3,528	3,417	3,321	3,215	3,099	2,983
2016/17	47,420	5,816	2,067	2,123	3,235	3,554	3,560	3,662	3,703	3,610	3,507	3,396	3,300	3,194	3,078	2,962
2017/18	46,873	5,778	2,046	2,102	3,214	3,533	3,539	3,641	3,682	3,589	3,486	3,375	3,279	3,173	3,057	2,941
2018/19	45,897	5,660	2,025	2,081	3,193	3,512	3,518	3,620	3,661	3,568	3,465	3,354	3,258	3,152	3,036	2,920
2019/20	45,353	5,517	2,004	2,060	3,172	3,491	3,497	3,599	3,640	3,547	3,444	3,333	3,237	3,131	3,015	2,899
2020/21	44,813	5,374	2,000	2,039	3,151	3,470	3,476	3,578	3,619	3,526	3,423	3,312	3,216	3,110	2,994	2,878
2021/22	44,300	5,231	2,000	2,018	3,130	3,449	3,455	3,557	3,598	3,505	3,402	3,291	3,195	3,089	2,973	2,857
2022/23	43,878	5,114	2,147	2,000	3,110	3,428	3,434	3,536	3,577	3,484	3,381	3,270	3,174	3,068	2,952	2,836

# Jefferson Parish School Enrollment Projections: Live Birth Rate and Modified Co-Hort Survival Method

High Growth Assumption

School Year	Pre K-13 Enrollment	Live Births	Pre Kindergarten	Kindergarten	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade	Sixth Grade	Seventh Grade	Eighth Grade	Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
2010/11	52,106	5,915	2,092	2,248	3,360	3,679	3,685	3,787	3,828	3,735	3,632	3,521	3,425	3,319	3,203	3,087
2011/12	51,173	5,915	2,072	2,228	3,340	3,659	3,665	3,767	3,808	3,715	3,612	3,501	3,405	3,299	3,183	3,067
2012/13	50,375	5,906	2,051	2,207	3,319	3,638	3,644	3,746	3,787	3,694	3,591	3,480	3,384	3,278	3,162	3,046
2013/14	49,708	5,895	2,030	2,186	3,298	3,617	3,623	3,725	3,766	3,673	3,570	3,459	3,363	3,257	3,141	3,025
2014/15	49,217	5,874	2,109	2,165	3,277	3,596	3,602	3,704	3,745	3,652	3,549	3,438	3,342	3,236	3,120	3,004
2015/16	48,697	5,854	2,088	2,144	3,256	3,575	3,581	3,683	3,724	3,631	3,528	3,417	3,321	3,215	3,099	2,983
2016/17	47,420	5,816	2,067	2,123	3,235	3,554	3,560	3,662	3,703	3,610	3,507	3,396	3,300	3,194	3,078	2,962
2017/18	46,873	5,778	2,046	2,102	3,214	3,533	3,539	3,641	3,682	3,589	3,486	3,375	3,279	3,173	3,057	2,941
2018/19	46,353	5,660	2,025	2,081	3,193	3,512	3,518	3,620	3,661	3,568	3,465	3,354	3,258	3,152	3,036	2,920
2019/20	45,813	5,517	2,004	2,060	3,172	3,491	3,497	3,599	3,640	3,547	3,444	3,333	3,237	3,131	3,015	2,899
2020/21	45,300	5,374	2,000	2,039	3,151	3,470	3,476	3,578	3,619	3,526	3,423	3,312	3,216	3,110	2,994	2,878
2021/22	44,878	5,231	2,147	2,000	3,110	3,428	3,434	3,536	3,577	3,484	3,381	3,270	3,174	3,068	2,952	2,836

Prepared by Villavaso & Associates, LLC, September 2010

\*2011 Enrollment Numbers are Preliminary Enrollments

# Jefferson Parish School Enrollment Projections: Live Birth Rate and Modified Co-Hort Survival Method

Live Birth Rate and Modified Co-Hort Survival Method

School Year	Pre-K to 12 Enrollment	Live Births	Pre-K to 12 Enrollment	Kindergarten	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade	Sixth Grade	Seventh Grade	Eighth Grade	Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
2007-2008	48,486	3,348	2,092	3,032	3,032	3,032	3,032	3,032	3,032	3,032	3,032	3,032	3,032	3,032	3,032	3,032
2008-2009	47,133	3,312	2,075	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016
2009-2010	45,476	3,276	2,058	2,980	2,980	2,980	2,980	2,980	2,980	2,980	2,980	2,980	2,980	2,980	2,980	2,980
2010-2011	43,819	3,240	2,041	2,944	2,944	2,944	2,944	2,944	2,944	2,944	2,944	2,944	2,944	2,944	2,944	2,944
2011-2012	42,162	3,204	2,024	2,908	2,908	2,908	2,908	2,908	2,908	2,908	2,908	2,908	2,908	2,908	2,908	2,908
2012-2013	40,505	3,168	2,007	2,872	2,872	2,872	2,872	2,872	2,872	2,872	2,872	2,872	2,872	2,872	2,872	2,872
2013-2014	38,848	3,132	2,000	2,836	2,836	2,836	2,836	2,836	2,836	2,836	2,836	2,836	2,836	2,836	2,836	2,836
2014-2015	37,191	3,096	2,000	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800
2015-2016	35,534	3,060	2,000	2,764	2,764	2,764	2,764	2,764	2,764	2,764	2,764	2,764	2,764	2,764	2,764	2,764
2016-2017	33,877	3,024	2,000	2,728	2,728	2,728	2,728	2,728	2,728	2,728	2,728	2,728	2,728	2,728	2,728	2,728
2017-2018	32,220	2,988	2,000	2,692	2,692	2,692	2,692	2,692	2,692	2,692	2,692	2,692	2,692	2,692	2,692	2,692
2018-2019	30,563	2,952	2,000	2,656	2,656	2,656	2,656	2,656	2,656	2,656	2,656	2,656	2,656	2,656	2,656	2,656
2019-2020	28,906	2,916	2,000	2,620	2,620	2,620	2,620	2,620	2,620	2,620	2,620	2,620	2,620	2,620	2,620	2,620
2020-2021	27,249	2,880	2,000	2,584	2,584	2,584	2,584	2,584	2,584	2,584	2,584	2,584	2,584	2,584	2,584	2,584
2021-2022	25,592	2,844	2,000	2,548	2,548	2,548	2,548	2,548	2,548	2,548	2,548	2,548	2,548	2,548	2,548	2,548
2022-2023	23,935	2,808	2,000	2,512	2,512	2,512	2,512	2,512	2,512	2,512	2,512	2,512	2,512	2,512	2,512	2,512
2023-2024	22,278	2,772	2,000	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476
2024-2025	20,621	2,736	2,000	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440

# Jefferson Parish School Enrollment Projections: Live Birth Rate and Modified Co-Hort Survival Method

Live Birth Rate and Modified Co-Hort Survival Method

School Year	Pre-K to 12 Enrollment	Live Births	Pre-K to 12 Enrollment	Kindergarten	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade	Sixth Grade	Seventh Grade	Eighth Grade	Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
2007-2008	48,486	3,348	2,092	3,032	3,032	3,032	3,032	3,032	3,032	3,032	3,032	3,032	3,032	3,032	3,032	3,032
2008-2009	47,133	3,312	2,075	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016	3,016
2009-2010	45,476	3,276	2,058	2,980	2,980	2,980	2,980	2,980	2,980	2,980	2,980	2,980	2,980	2,980	2,980	2,980
2010-2011	43,819	3,240	2,041	2,944	2,944	2,944	2,944	2,944	2,944	2,944	2,944	2,944	2,944	2,944	2,944	2,944
2011-2012	42,162	3,204	2,024	2,908	2,908	2,908	2,908	2,908	2,908	2,908	2,908	2,908	2,908	2,908	2,908	2,908
2012-2013	40,505	3,168	2,007	2,872	2,872	2,872	2,872	2,872	2,872	2,872	2,872	2,872	2,872	2,872	2,872	2,872
2013-2014	38,848	3,132	2,000	2,836	2,836	2,836	2,836	2,836	2,836	2,836	2,836	2,836	2,836	2,836	2,836	2,836
2014-2015	37,191	3,096	2,000	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800
2015-2016	35,534	3,060	2,000	2,764	2,764	2,764	2,764	2,764	2,764	2,764	2,764	2,764	2,764	2,764	2,764	2,764
2016-2017	33,877	3,024	2,000	2,728	2,728	2,728	2,728	2,728	2,728	2,728	2,728	2,728	2,728	2,728	2,728	2,728
2017-2018	32,220	2,988	2,000	2,692	2,692	2,692	2,692	2,692	2,692	2,692	2,692	2,692	2,692	2,692	2,692	2,692
2018-2019	30,563	2,952	2,000	2,656	2,656	2,656	2,656	2,656	2,656	2,656	2,656	2,656	2,656	2,656	2,656	2,656
2019-2020	28,906	2,916	2,000	2,620	2,620	2,620	2,620	2,620	2,620	2,620	2,620	2,620	2,620	2,620	2,620	2,620
2020-2021	27,249	2,880	2,000	2,584	2,584	2,584	2,584	2,584	2,584	2,584	2,584	2,584	2,584	2,584	2,584	2,584
2021-2022	25,592	2,844	2,000	2,548	2,548	2,548	2,548	2,548	2,548	2,548	2,548	2,548	2,548	2,548	2,548	2,548
2022-2023	23,935	2,808	2,000	2,512	2,512	2,512	2,512	2,512	2,512	2,512	2,512	2,512	2,512	2,512	2,512	2,512
2023-2024	22,278	2,772	2,000	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476
2024-2025	20,621	2,736	2,000	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440

Prepared by Villavaso & Associates, LLC November 2019

\*2013 Enrollment Numbers are Preliminary Enrollment

## MICRO-GEOGRAPHIES: INDIVIDUAL ELEMENTARY SCHOOL ENROLLMENT PROJECTIONS

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In projecting enrollment for individual schools, a key challenge is that the schools' projections are keyed to their attendance boundaries, but the data needed to support those projections are registered to geographies that aren't consistent with attendance boundaries.

A second challenge is that school choice is made available at some schools through option areas, which are geographical areas where the attendance boundaries of multiple schools overlap. The third challenge is determining whether or not enrollment growth is tied to the population or due to secondary or tertiary reasons.

In all, we had to factor in the following variables:

- 6 elementary schools with boundary changes
- 5 elementary schools adding 7<sup>th</sup> and 8<sup>th</sup> grades
- 9 Advanced Studies Academies with no attendance boundaries
- 5 existing Charter Schools with no attendance boundaries and adding 2 Charter Schools for the 2015-2016 school year
- 11 Magnet Schools with traditional attendance boundaries that accept students from outside those boundaries
- 2 new elementary schools

To make individual school enrollment projections Villavaso & Associates, LLC relied on historical births by zip code, 2010 Census Block 5-Year Age Co-Horts, forecast births by parish, 2015 ESRI Population Estimates by block group and 2020 ESRI Population Projections, historical enrollment records, elementary school attendance boundaries, housing growth, private school enrollment, individual school grade configurations and historical population data for ages 5 – 17 by census tract and block group.

In predicting enrollment for individual Jefferson Parish Public Schools for 2020-2021, we started with the historical enrollment records, for what happened in the past will usually occur again. From the five year historical enrollment records, a co-hort survival rate was determined for each grade at each school. This co-hort survival rate was modified for the 2020-2021 school year with the Jefferson Parish birth rate zip codes proportioned to the individual school enrollment boundary and compared with the 2010 Census five year age co-hort populations and 2015 Estimates for accuracy.

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### CALCULATING CO-HORT SURVIVAL RATE OF ATTENDING STUDENTS

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#### TRADITIONAL ENROLLMENT SCHOOLS

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Five years of attending enrollment at traditional attendance zone schools are used to calculate the rate of survival or rate of students matriculating to the next level within JPPSS by grade. Attending enrollment is the total number of students within the attendance zone



that are attending their geographically assigned school. Determining the co-hort survival rate assumes the boundaries and feeder patterns remain intact as the grades matriculate.

$$\text{2nd grade by school survival rate 2013-14} = \\ (\# \text{ of 2013-14 attending 2nd graders}) / (\# \text{ of 2012-2013 attending 1st graders})$$

Once the attrition rate is calculated for each grade, grades one through twelve, over the past five years, it is then averaged and used as a factor to obtain next year's projections for that grade. For example:

$$\text{Projected 2014-2015 2nd graders} = \\ (\text{average 2nd grade attrition rate from 2008-2013}) * (\# \text{ of 2013-2014 attending 1st graders})$$

To calculate subsequent years of projections by grade, the model uses the projected rate of attrition based on the projected enrollment of the previous year to calculate the next projections year. For example:

$$\text{Projected 2015-16 2nd graders} = \\ (\text{average 2nd grade projected attrition rate from 2009-2014}) * (\# \text{ of projected 2014-15 attending 1st graders})$$

Projections for each grade are then reviewed school-by-school. Survival rates can cause projections to be exceedingly high or low in which case they will have to be adjusted so as not to cause an exponential effect in outer projection years.

The school-by-school Cohort Survival model projections, by grade, are compared and tested for reasonableness with other relevant data. Accordingly, adjustments may be made to the Cohort Survival model based on the following factors:

- Public School closures
- Boundary adjustments
- New school openings
- Changes/additions in program offerings
- Preschool program closures and relocations
- Multi-grade schools (K-8, 6-12, etc)
- Change in grade configuration
- Interest rates/unemployment shifts
- Magnet/Charter/Private school openings or closures
- Zoning changes
- Administrative changes
- Unplanned new housing activity
- Planned, but not built, housing
- Natural disasters
- Catastrophic events

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## NO ATTENDANCE ZONE OR OUT-OF-BOUNDARY SCHOOLS (OOB)

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Out-of-boundary (OOB) are schools without a traditional attendance zone.

OOB Schools include the Advanced Studies Academies of:

- Airline Park Academy for Advanced Studies (PK-5)
- Metairie Academy for Advanced Studies (PK-5)
- Haynes Academy for Advanced Studies (6-12)
- Gretna #2 Academy for Advanced Studies (PK-5)
- Marrero Academy for Advanced Studies (PK-5)
- Ruppel Academy for Advanced Studies (6-8)
- Thomas Jefferson High School (9-12)
- Patrick Taylor Science and Technology Academy (6-12)

And the Charter Schools of:

- Kenner Discovery Health Science Academy (K-7)
- Young Audiences Academy (K-4)
- International School of Louisiana (K-8)
- Jefferson Chamber Foundation (9-12)
- Woodmere Celerity
- Jefferson RISE
- Laureate Academy

This study assumes that OOB students at each grade level at each school will be the same as the existing year and will have an overall survival rate of close to 100% as they matriculate through the grade levels. However, adjustments are made to OOB schools if enrollments naturally decline based on the calculated cohort survival rate yet economic or other conditions may suggest enrollment should increase or if schools are eligible to receive assignment transfers. Since assignment data is determined after the release of the projections and is subject to change, the OOB students typically remain constant in the model based on the current year's data.

One exception to this constant is the Patrick Taylor Science and Technology Academy. Recently relocated to the West Bank in new facilities, Patrick Taylor has a capacity of 500 and will be near that capacity within three years. In addition, Kenner Discovery and Young Audiences will both be increasing to a K-8 grade configuration, adding at least a grade per year for the next several years. The trend should be for these schools to grow and to be near capacity within five years.

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## MICRO-GEOGRAPHY BIRTH RATES

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To calculate birth rates by school enrollment boundaries, we computed the proportion of students per micro-geography inside attendance boundaries, and the approximate proportion of children per zip code outside attendance boundaries. We are then able to estimate the number of births per micro-geography. When the birth data are re-aggregated up to the attendance boundary level, we have our measure of births per school attendance area, a necessary component for forecasting incoming classes of kindergarten and first grade students for that school.

Using the Zip Code 70123 as an example, the live birth rate in 2009 was approximately 299 births. The two elementary schools that share this Zip Code are Hazel Park and Harahan. The number of live births allocated to Hazel Park was about 152 and to Harahan was approximately 147 and this lead to a Live Birth to Kindergarten Co-Hort survival rate of .51020 for the 2013 school year. The live birth rates for the successive years to 2018 were calculated for each elementary school based on zip code to determine the kindergarten and first grade classes from 2014-2018. The 2013 birth rate numbers were estimated based on current trends and used to project the 2018 Kindergarten and First Grade enrollment numbers.

From the current and potential 5 year age group co-hort numbers, we calculated the percentage of children from the school age as a whole to compare to those children actually enrolled in a Jefferson Parish Public School to further determine potential growth or decline areas. In the Harahan Elementary School Boundary area, 544 students were enrolled in grades K-4 in 2013. The K-4 numbers most closely align with the Census and 5-9 Years age co-hort estimates using eleven block groups. Based on this methodology, Harahan Elementary in 2013 had over 80 percent of the K-4 aged children enrolled. Using the 2018 projections, this would equate to a possible Harahan Elementary enrollment of 520 in grades K-4 in 2018, an annualized growth rate of -5 students or -1.5% just based on existing populations. This was done for each elementary school with traditional enrollment boundaries to give us a snap shot of the 2018 enrollment scenarios.

From that point, we added the following multipliers: housing growth (block group), private school enrollment (parish-wide), population projections (block group), economic factors (local and parish wide), and housing permits (East Bank/West Bank split).

Jefferson Parish Public School System: Estimated Birth Rates by Zip Code:												
Eastbank	ESTIMATED BIRTH RATES (Modified)											
ZIP CODE	2015*	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004
70001	583	576	583	509	577	551	490	543	479	454	433	456
70002	221	232	166	210	239	290	276	244	251	185	154	235
70003	399	395	436	375	256	476	452	516	549	434	451	543
70005	309	347	361	330	340	258	298	280	277	360	353	394
70006	309	293	268	190	146	163	217	185	225	285	172	183
70007	339	312	325	334	265	290	244	275	253	295	253	250
70065	573	559	439	573	614	658	687	690	728	661	619	723
70121	87	101	71	65	90	102	137	160	147	113	123	142
70123	257	237	239	278	336	258	316	280	302	290	273	299
Totals	3,097	2,955	2,954	2,940	2,904	3,114	3,090	3,152	3,241	2,868	2,731	3,133
Westbank	ESTIMATED BIRTH RATES (Modified)											
ZIP CODE	2015*	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004
70018	77	75	57	44	59	12	11	13	13	16	16	14
70013	230	237	213	217	209	247	199	231	240	235	199	223
70016	627	627	558	609	656	644	662	654	661	688	528	676
70018	509	571	509	485	411	569	554	621	642	625	557	650
70067	24	25	25	19	39	39	34	48	41	35	34	38
70072	980	871	797	817	945	783	823	873	873	856	802	971
70094	497	483	501	458	469	420	492	478	514	454	450	509
70358	12	11	17	12	8	14	19	13	11	8	10	12
Totals	2,642	2,817	2,632	2,726	2,750	2,738	2,816	2,943	2,997	2,790	2,607	3,145

Data Source: National Census for Health Statistics (National Vital Statistics 2004-2014); US Census Bureau; American Community Survey 2008-2014; BIRTH 2011 Estimates  
 Prepared by: Villavaso & Associates, LLC (updated November 2015)

\*VSA Estimate



In working with such small numbers in comparison to Jefferson Parish Public School System as a whole, the margin of error in forecasting future enrollment increases. The magnitude of the error is inversely related to the size of the population—the smaller the population, the larger the error. As expected, errors are reduced as the geography level increases.

Also, forecasts of rapidly changing populations are invariably less accurate than forecasts of stable population areas. If no one moved into or out of an area, it would be easy to project the population each year. However, business closings or openings, school program changes, and new or demolished housing tend to change living habits. Annual updates improve accuracy by including the most recent changes to the population base. Therefore, it is more accurate to forecast what will happen in one year rather than in five years.

Jefferson Parish is projected to have a slightly higher than past years' rise in the 10-14 year old age group demographic. However due to grade configuration changes at five elementary schools, most traditional Middle Schools in Jefferson Parish will see losses of well over 10% of the enrollment population. Jefferson Parish is experiencing the grade re-configurations in five elementary schools, adding 7<sup>th</sup> and 8<sup>th</sup> grades. It is important to note that these schools will adversely affect the enrollment of those middle schools while middle school enrollments as a whole will increase.

As requested by the Jefferson Parish Public School Board, Villavaso & Associates, LLC developed a "best case" individual school growth scenario for all Jefferson Parish Public Elementary Schools with traditional enrollment boundaries. As noted earlier, individual schools are more subject to the vagaries of local factors affecting school enrollment such as housing changes, construction projects, and business openings and closures. As such, individual school enrollments can fluctuate +/- five (5) percent or more.

Five Elementary Schools (Lincoln, Ellis, Estelle, Matas, and Chateau Estates) have recently changed their grade configurations from PreK/K-5 to PreK/K-8. The addition of grade 7 and 8 at these schools will reduce the enrollment at the majority of middle schools in Jefferson Parish. Kenner Discovery Health Sciences Academy and Young Audiences Charter School, both Charter Schools with no enrollment boundaries, will also be increasing to be K-8, furthermore serving to reduce the enrollments at neighboring elementary and middle schools. The third elementary/middle Charter School, International School of Louisiana is already K-8.

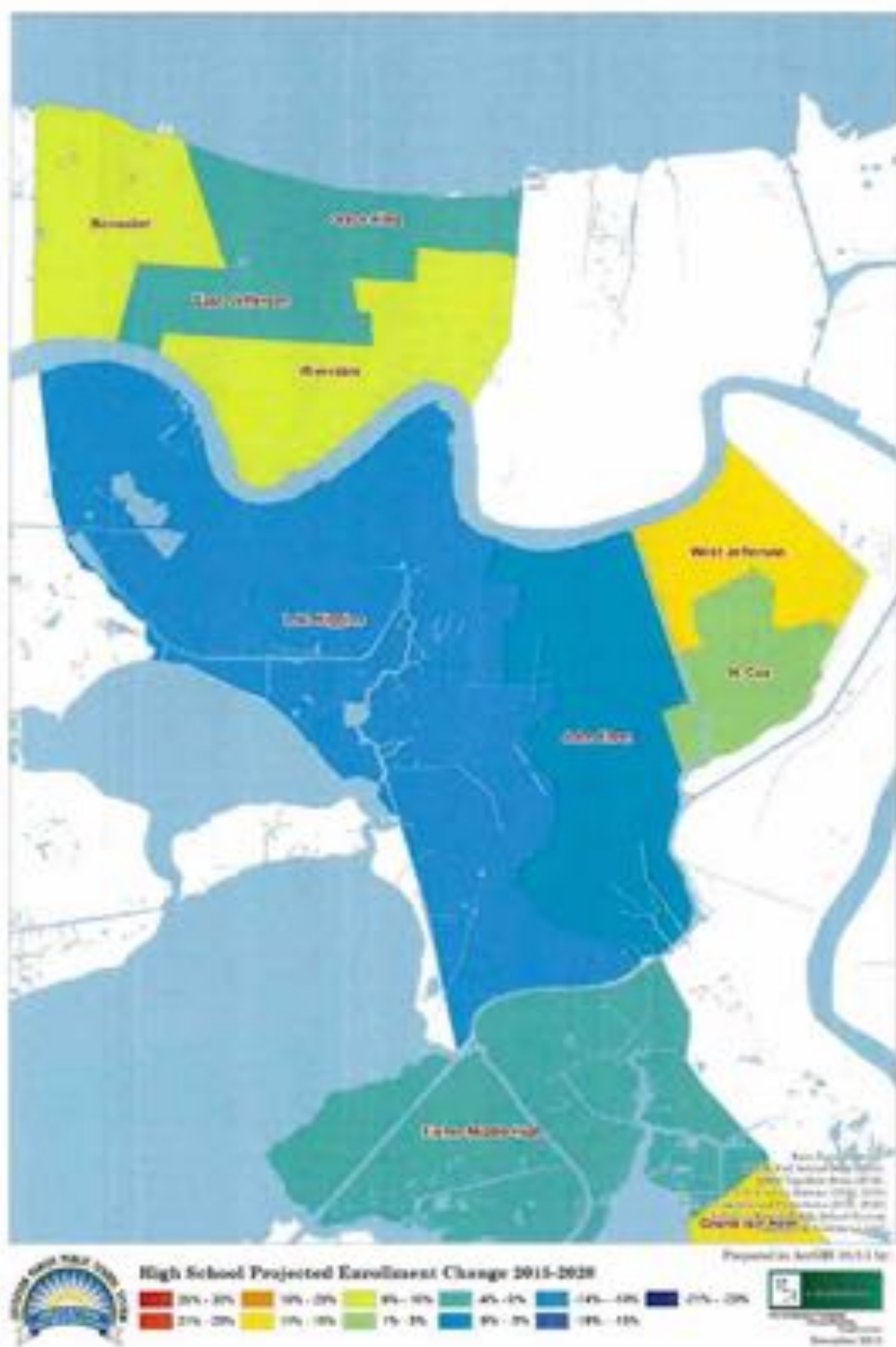
The following table shows the projected enrollment changes for schools with traditional enrollment boundaries. The maps show the projected enrollment changes for schools with current enrollment boundaries.

## Jefferson Parish Public School System Projections: Traditional Schools

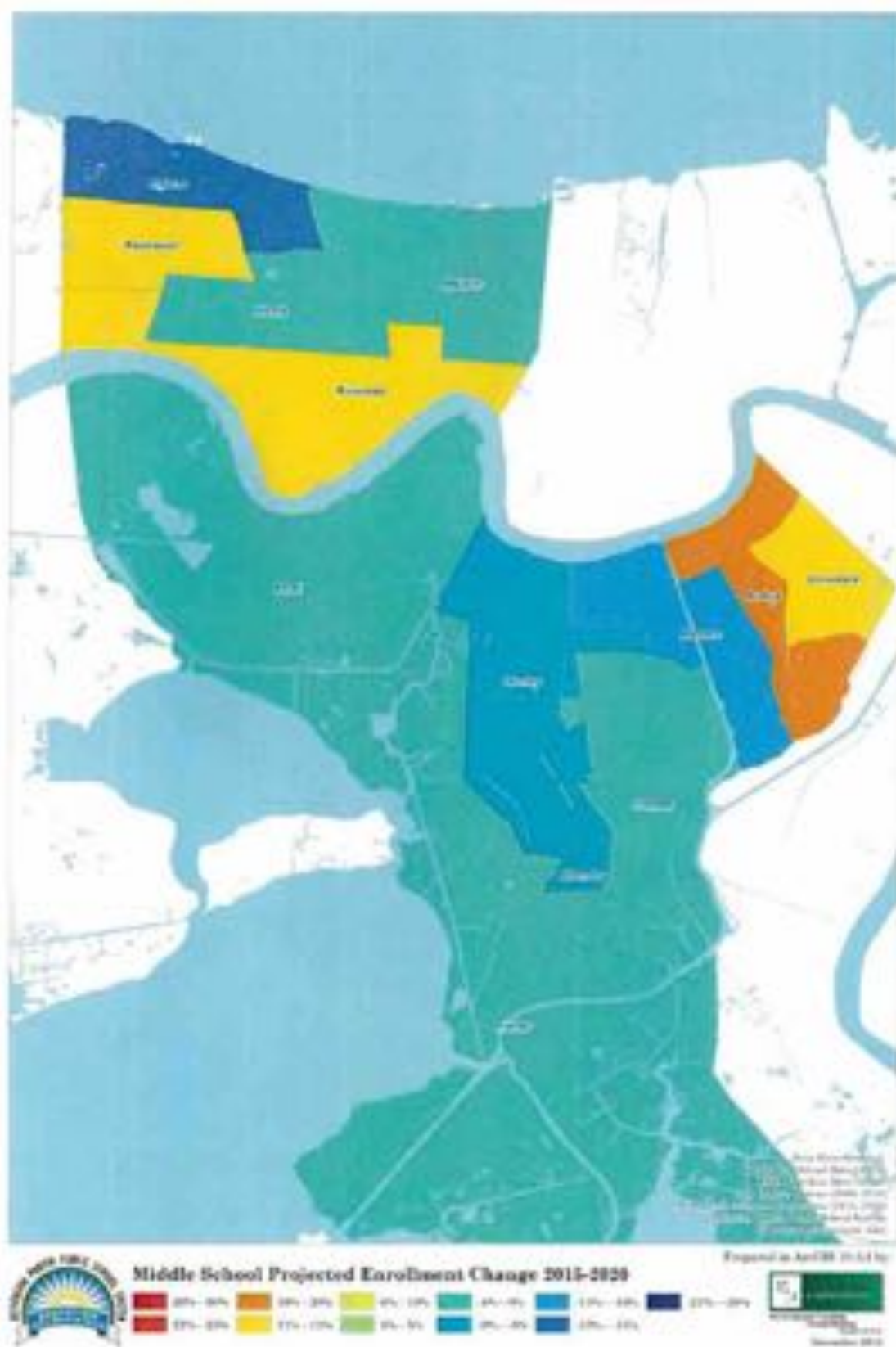
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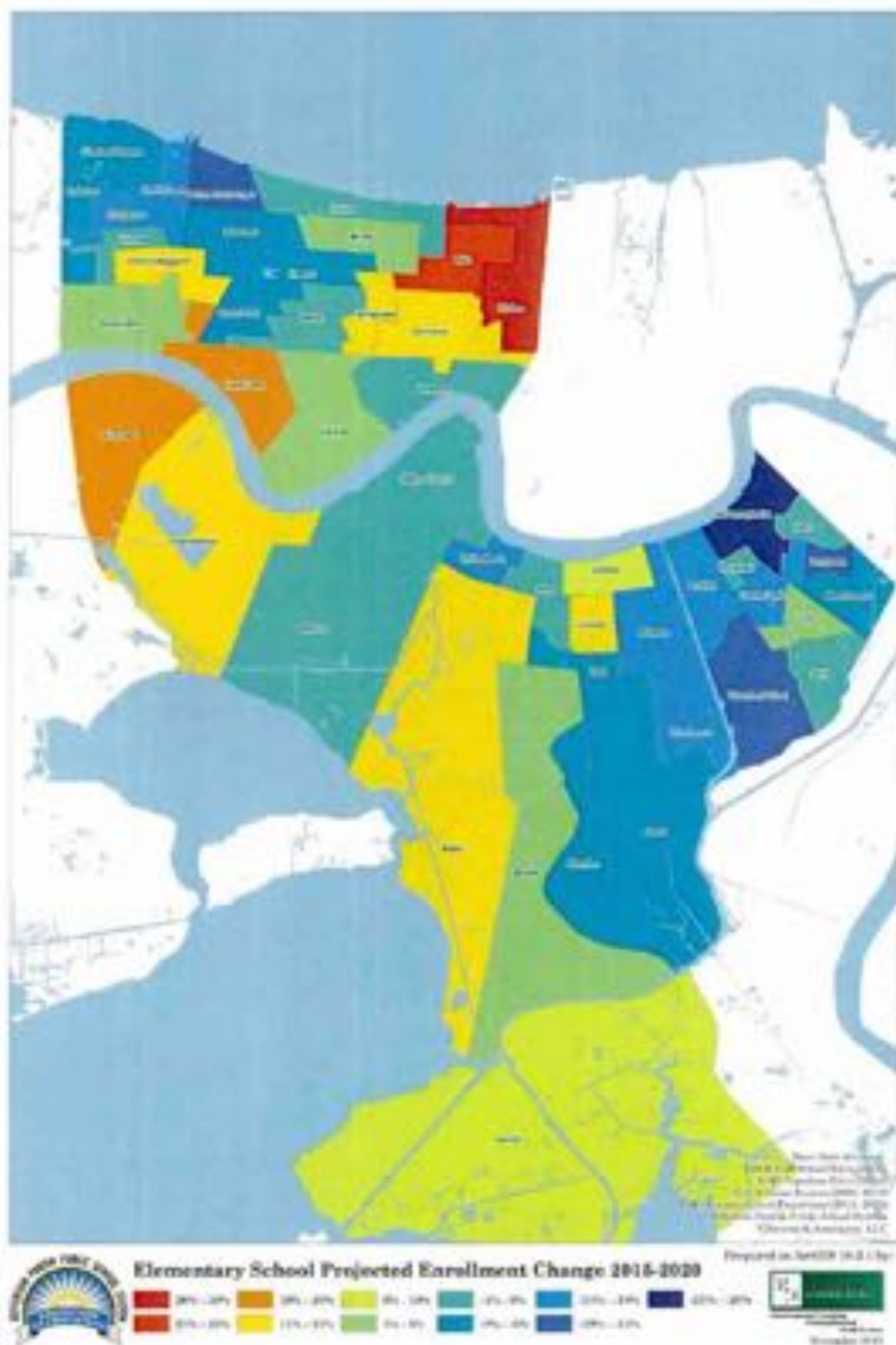
Downloaded by [University of Toronto Libraries] at 11:27 06 November 2014

<sup>a</sup> 100% *Staphylococcus aureus* and *Escherichia coli* strains.









East Bank will see the steady increases in enrollment overall based on economic stability and school quality. Private school transfers also have the potential to further increase enrollment at Jefferson Parish Schools.

The schools located in the western section of the West Bank may see decreases in enrollment due to past enrollment trends, economic uncertainty, and construction shortfalls. The expansion of the Huey P. Long Bridge has not yet impacted population or economic growth.



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## APPENDIX

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Census and Estimates of the Population of Jefferson Parish, Louisiana: 1950-2015

Year	Population	Under 2	2 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 years and over
1950	202,622	3,147	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
1955	208,745	3,147	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
1960	214,498	3,147	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
1965	220,321	3,147	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
1970	226,194	3,147	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
1975	232,067	3,147	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
1980	237,940	3,147	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
1985	243,813	3,147	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
1990	249,686	3,147	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
1995	255,559	3,147	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
2000	261,432	3,147	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
2005	267,305	3,147	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
2010	273,178	3,147	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
2015	279,051	3,147	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000

Reported by Villavaso &amp; Associates, LLC (August 2015)

Source: U.S. Census Bureau (Decennial Census, 1950-2000; Louisiana Population Estimates, 1990-2014)

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# Jefferson Parish, Louisiana: Parish Demographic and Income Profile

Summary	1990 Census		2000 Census		Census 2010		2015 Estimates		2020 Projections	
Population	448,306		435,466		432,332		433,406		436,134	
Households	166,398		176,234		169,647		175,196		172,409	
Average Household Size	2.68		2.56		2.53		2.51		2.54	
Families	118,308		120,343		111,817		111,418		111,831	
Average Family Size	3.24		3.13		3.69		3.09		3.07	
Owner-Occupied Housing Units	104,611		112,548		108,044		103,120		101,761	
Renter-Occupied Housing Units	61,787		63,685		61,603		68,076		68,648	
Vacant Housing Units	18,634		11,673		29,498		18,343		19,880	
Total Housing Units	183,032		185,907		199,145		190,539		190,449	
Median Age	32.3		33.9		38.3		39.1		39.5	
Trends: 2015 - 2020 Annual Rate					Jefferson Parish		Louisiana		United States	
Population					0.13%		0.40%		0.79%	
Households					0.14%		0.93%		0.77%	
Families					-0.07%		0.71%		0.69%	
Owner EDs					0.12%		0.91%		0.70%	
Median Household Income					1.32%		2.09%		2.66%	
					2010 American Community Survey		2015 Estimates		2020 Projections	
Households by Income	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<\$10,000	41,965	25.2%	38,234	17.1%	23,870	14.1%	21,780	13.9%	21,524	12.7%
\$10,000 - \$14,999	11,476	18.9%	24,962	14.1%	21,684	12.9%	21,833	12.8%	19,304	9.5%
\$15,000 - \$24,999	28,852	17.4%	25,357	14.4%	18,662	11.0%	19,406	11.3%	17,940	10.4%
\$25,000 - \$34,999	30,839	18.1%	30,474	17.3%	26,793	15.2%	25,467	14.9%	26,439	15.3%
\$35,000 - \$44,999	22,624	13.6%	30,426	18.9%	39,810	17.1%	29,375	17.0%	31,363	18.2%
\$45,000 - \$54,999	6,281	3.8%	15,893	9.0%	19,345	11.4%	18,247	10.7%	19,643	11.3%
\$55,000 - \$64,999	1,317	1.9%	10,439	5.9%	18,322	10.6%	17,835	10.4%	19,617	11.4%
\$65,000 - \$74,999	1,801	1.1%	2,318	1.4%	5,768	3.4%	7,636	4.5%	9,835	5.7%
\$75,000+			3,221	1.8%	6,616	3.9%	7,775	4.5%	9,078	5.3%
Median Household Income	\$21,516		\$38,363		\$46,199		\$46,302		\$51,931	
Average Household Income	\$24,316		\$31,064		\$43,787		\$48,187		\$56,965	
Per Capita Income	\$12,543		\$15,513		\$21,069		\$21,034		\$30,086	
					1990 Census		2000 Census		Census 2010	
Population by Age	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 - 4	32,777	7.3%	30,226	6.9%	26,166	6.0%	26,698	6.2%	26,516	6.2%
5 - 9	34,538	7.7%	31,811	7.3%	26,428	6.1%	27,181	6.3%	28,317	6.6%
10 - 14	33,403	7.5%	32,657	7.5%	25,995	6.0%	25,787	5.9%	27,624	6.3%
15 - 19	32,434	7.2%	32,436	7.5%	27,647	6.4%	23,988	5.5%	24,519	5.6%
20 - 24	32,871	7.3%	29,769	6.8%	29,431	6.8%	26,911	6.2%	23,838	5.3%
25 - 34	86,207	19.2%	64,551	14.8%	61,230	14.2%	63,514	14.7%	61,187	14.0%
35 - 44	71,089	15.8%	71,201	16.3%	64,433	14.9%	63,329	14.6%	58,103	13.3%
45 - 54	67,664	15.1%	64,834	14.9%	63,250	14.6%	57,387	13.2%	51,519	11.9%
55 - 64	37,623	8.4%	41,632	9.6%	53,344	12.3%	50,646	11.7%	50,698	11.6%
65 - 74	28,763	6.4%	30,023	6.9%	31,643	7.3%	30,783	7.1%	40,039	9.2%
75 - 84	13,657	3.0%	18,915	4.3%	19,338	4.5%	19,363	4.5%	22,632	5.2%
85+	3,372	0.8%	3,373	1.2%	7,743	1.8%	9,017	2.1%	8,132	2.1%
					1990 Census		2000 Census		Census 2010	
Race and Ethnicity	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
White Alone	342,094	77.0%	313,062	69.8%	272,113	62.9%	265,373	61.2%	258,269	59.2%
Black Alone	79,353	17.5%	104,121	23.9%	113,887	26.3%	115,768	26.7%	118,870	27.2%
American Indian Alone	1,752	0.4%	2,032	0.4%	2,638	0.6%	2,179	0.5%	2,294	0.5%
Asian Alone	9,880	2.2%	14,065	3.2%	16,683	3.9%	18,149	4.2%	18,086	4.1%
Pacific Islander Alone	101	0.0%	154	0.0%	179	0.0%	211	0.0%	237	0.1%
Some Other Race Alone	6,314	1.4%	9,239	2.0%	18,479	4.3%	21,883	4.9%	24,826	5.7%
Two or More Races	4,866	1.1%	1,853	0.4%	9,221	2.1%	10,765	2.5%	12,346	2.8%
Hispanic Origin (Any Race)	26,613	5.9%	32,438	7.5%	33,702	7.8%	44,635	10.2%	72,088	16.5%

Data Note: Income is expressed in current dollars.

Prepared by: Villavaso & Associates, LLC (September 1, 2015)

Source: U.S. Census Bureau - 1990, 2000, 2010 Census of Population and Housing & 2010 American Community Survey; USRA Reports for 2015 and 2020