

JEFFERSON PARISH PUBLIC SCHOOL SYSTEM

TRENDS, ENROLLMENTS, AND PROJECTIONS 2015-2020

December 3, 2015





ACKNOWLEDGEMENTS

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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Stephen D. Villavaso, FAICP Patricia J. Sinel, AICP Fred Neal Jr., AICP Cara Bartholomew

6304 Beauregard Avenue New Orleans, LA 70124 Phone: 504-343-9096 www.villavasoplanning.com

TABLE OF CONTENTS

JEFFERSON PARISH PUBLIC SCHOOL SYSTEM	
Acknowledgements	2
Executive Summary	4
Introduction	6
PART 1: PRELIMINARY DATA, TRENDS, AND FINDINGS	7
Population Trends	8
Migration	14
Projected Growth Areas	16
Economic Trends: Residential Construction	22
Economic Trends: Real Estate	26
Economic Trends: Employment	26
School Enrollment Trends: Public	27
School Enrollment Trends: Private	28
School Enrollment Trends: Other	31
PART 2: PROJECTING ENROLLMENT IN JEFFERSON PAR	ISH 32
Housing and Population Growth Assumptions	33
Live Birth Rates	34
Migration	37
Capture RateS	38
Pre-Kindergarten Capture Rates	41
PART 3: GROWTH SCENARIOS	43
Moderate (Baseline) Growth Assumptions	43
High Growth Assumptions	44
Low Growth Assumptions	44
Momentum Assumption	45
MICRO-GEOGRAPHIES: INDIVIDUAL ELEMENTARY SCHOOL	OOL
ENROLLMENT PROJECTIONS	53
Calculating Co-Hort Survival Rate of Attending Students	53
Micro-Geography Birth Rates	55
DATA SOURCES AND REFERENCES	63
APPENDIX	A-1

EXECUTIVE SUMMARY

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.

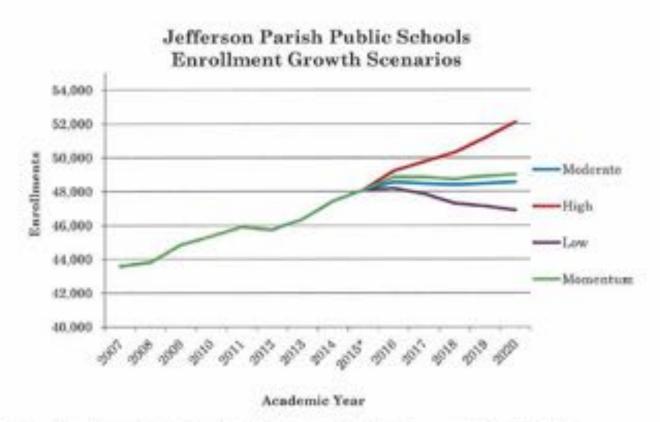
Over the next five years, JPPSS will see overall gains in school enrollments but will see the growth drop off in one to two years as the momentum slows but then rises again in four to five years as higher birth rates take effect.

- 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,
 Tangipahon, 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.

INTRODUCTION

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 geographics 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 "het 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 sent 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 12th 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

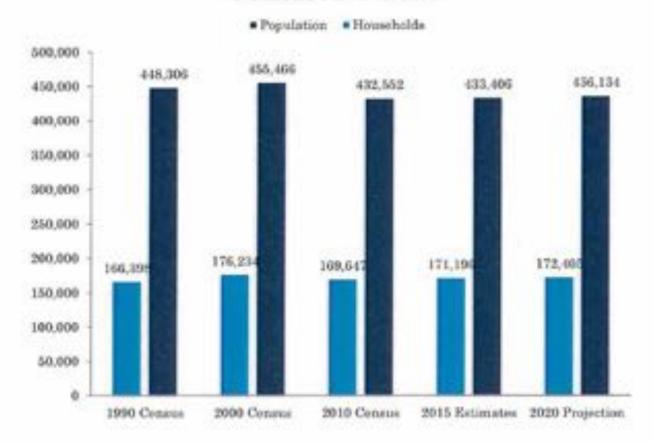
The U.S. Census Bureau released the results of its decennial census with the 2010 population of Jefferson Parish stands at 432,552 persons. The U.S. Census Bureau has released a July 1, 2014 Population Estimate of 435,716 for Jefferson Parish.

Year	LOUISIANA	JEFFERSON PARISH
1830	215,739	6,846
1840	352,411	10,470
1850	517,762	25,093
1860	708,002	15,372
1870	726,915	17,767
1880	939,946	12,160
1890	1,118,588	13,221
1900	1,381,625	15,32
1910	1,656,388	18,247
1920	1,798,509	21,563
1930	2,101,593	40,033
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	448,300
2000	4,468,976	455,466
2010	4,533,372	432,552

Source: U.S. Creaus Barons Wistorical Creaus, U.S. Creaus Burness 2000 and 2010 Creaus SFT

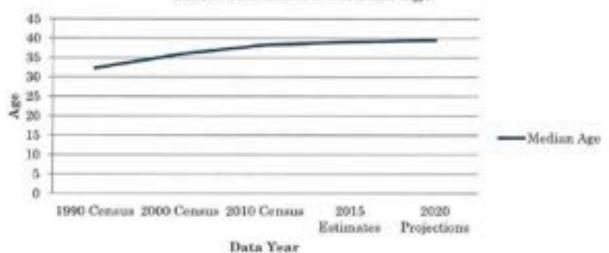
Prepared by Villavaso & Associates, LLC (January 2014)

Jefferson Parish



ESRI provides more detailed estimates and forecasts for five year periods, with the most recent being the 2015/2020Estimates and Forecasts. ESRI models the change in population and households by block group from three primary sources—InfoBase database from Acxiom 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.





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.

Population.	1990 Ceneau		2000 Census		Cenama 2010		2015 Estimates		2020 Projections	
by Age	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 - 4	32,777	7,3%	30,220	6.6%	25,796	6.6%	26,008	6.2%	26,519	6.1%
6 - 9	34,538	3.7%	31,811	7.0%	26,439	618	27,291	6.2%	26,137	6,01
10 - 14	33,405	7,6%	32,657	7,2%	25,995	6.0%	29,787	5,9%	27,624	6.35
15 - 19	32,438	7.2%	32,436	7.1%	27,047	6.2%	23,966	5,5%	24,519	5.65
20 - 24	82,871	1.3%	29,793	6.5%	19,457	6.6%	36,911	6,2%	23,838	5.5%
25 - 34	80,307	17.9%	64,551	14.2%	61,239	14.2%	63,914	14.7%	40,187	:14,0%
35 - 44	71,005	35.8%	73,390	16.1%	54,455	12.6%	33,329	12.3%	58,103	13.3%
45 - 54	87,864	30.6%	64,824	14.2%	65,256	13.1%	57,747	13,3%	53,719	11.95
55 - 64	37,625	8.4%	41,658	9.1%	\$5,544	12.4%	39,646	13.8%		18.55
65 - 74	28,743	6.4%	30,003	6.6%	27,645	7.7%	39,785	9.2%	46,009	19.5%
75 - 84	13,657	3.0%	18,915	4.2%	19,659	4.8%	19,395	6,504	22,672	5.2%
83+	3,372	0.8%	5,975	1.2%	7,745	1.8%	9.017	2.1%	9,112	2.1%

Prepared by Villareau & Associates, LLC (August 31, 2010)

Strover: U.S. Cennus Florence - 1890, 2000, 2000 Cennus of Psychologies and Housing & 2010 American Community Survey: ESSI forecasts for 2005 and 2000.

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.

		Public So Children I	CONTRACTOR OF THE PARTY OF THE		tions		
Age	Census 2010	2011 Estimates	2012 Estimates	2013 Estimates	2014 Estimates	2015 Estimates	2020 Projections
Total	432,552	434,056	434,575	435,524	435,716	433,406	426,134
Under 5 years	28,366	28,357	27,901	27,483	27,293	26,698	26,516
5 to 9 years	26,420	26,390	26,758	27,070	27,152	27,191	26,137
10 to 14 years	25,995	26,192	25.888	25,715	25,426	25,787	27,624
15 to 19 years	27,047	25,596	25,172	24,712	24,392	23,986	24,519

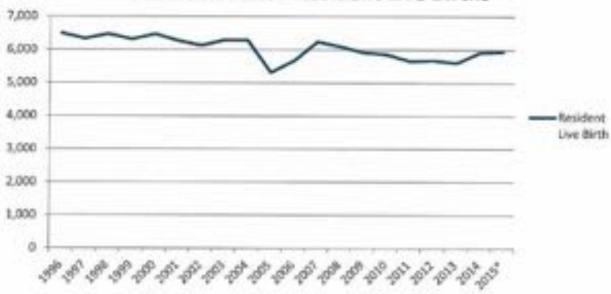
Source: U.S. Census Bureau, Armual Estimates of the Resident Population for Selected Groups: April 1, 2010 to July 1, 2014; ESRI Population Estimates and Projections 2015 and 2020 Propaged by Villavase & Associates, LLC (July 2015)

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.





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.

East Bank	Population	Under 5	Age 5-17	Households	Housing Units
1990	260,739	16.916	44.485	103,296	112,190
2000	257,501	15,275	42,073	107,528	113,918
2010	243,782	14,745	34,517	102,430	113,311
West Bank	Population	Under 5	Age 5-17	Households	Housing Units
1990	187,637	16,040	42,598	62,959	72,877
2000	197,965	14,951	42,956	68,706	73,986
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	166,255	185,072
2000	435,466	30,226	85.029	179,234	187,907
2010	432,552	28,366	69,031	169,643	189,135

Prepared by Villacesso & Associates, LLC (November 20141)

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 Paris			
	Estimate date	Population Estimate	Population Estimate % Change	Actual Population Change
	July 1, 2015	Not released	Not released	
Census	July 1, 2014	435,716	0.22%	2010-2014
Population	July 1, 2013	434,767	0.25%	3,164
estimates	July 1, 2012	433,676	0.04%	0.73%
	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	444,655	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, 2043	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)	455,466		1990-2000
April 1, 2000 Census Population	July 1, 1999	447,790	-0.43%	7,130
	July 1, 1998	449,768	-0.33%	1.59%
	July 1, 1997	451,179	-0.52%	C =000 1 (***)
22/2005/07	July 1, 1996	453,548	-0.41%	
Committee of the second	July 1, 1995	455,468	-0.02%	
	July 1, 1994	455,499	0.07%	
estimates	July 1, 1993	455,198	-0.05%	
	July 1, 1992	455,412	0.70%	
	July 1, 1991	452,264	0.88%	
	July 1, 1990	448,308	-0.01%	li.
April 1, 1990	Estimates base (Census)	445,336		1990-2000
April 1, 1980	Census	454,592		-6256
	1.52			-1.38%

Source: U.S. Bureau of the Consus Decennial Consus and Annual Estimates Proposed and Updated by Villarase & Associates, LLC (August 2015)

MIGRATION

The most difficult part of projecting population is determining an estimate of the in- and outmigration 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 outmigration. Net migration is positive when more people move into the area than leave and negative if the opposite is true.

	Net Migration*						
Year	Total	Inter- national	Internal				
2000-2001	-4,555	928	-5,481				
2001-2002	-2,489	917	-3,406				
2002-2003	-1,759	898	-2.657				
2003-2004	-865	854	-1,749				
2004-2005	-3,284	715	-3,995				
2005-2006	-28,996	796	-29,795				
2006-2007	2,405	738	1,665				
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				

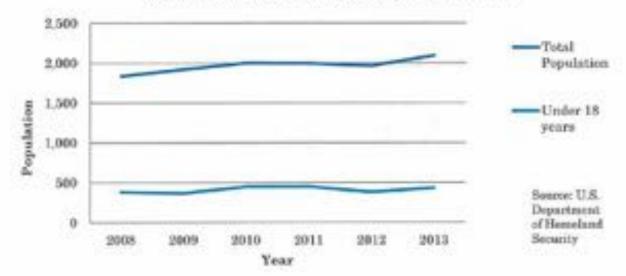
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Prepared by Villacoso & Associates, LLC (August 2015)

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.

PROJECTED GROWTH AREAS

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.

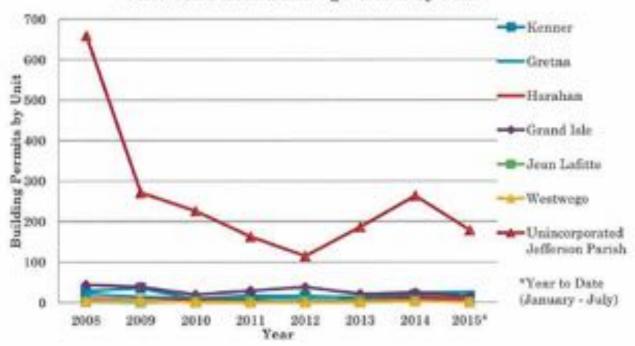
December 3, 2015

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.

	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	768
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 (2000-20154), 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 Mounes, 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 Trensure 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.



While no new residential developments are currently planned on the West Bank, the 8,500 acre tract of mostly undeveloped land on the West Bank, known as Churchill/Fairfield, is in the initial planning stages for development as part of the Jefferson Parish's Envision 2020 comprehensive land use plan. Delgado Community College's new campus, which could bring in 3,000 students to the area every week, is expected to open at Churchill in 2016. With the expansion of the Huey P. Long Bridge, the TPC Louisians Golf Course, the Alario Event Center, the Patrick F. Taylor School, and the recently created Churchill Technology & Business Park, new developments from the Fairfield area may force the need for additional residential options on the West Bank.

According to one of the goals of the proposed Fairfield Strategic Plan, the Plan seeks to create residential, commercial, industrial, and mixed use neighborhoods that attract regional investment and growth. While the Fairfield development will probably not impact school enrollments in the next few years, JPPSS will likely need to reassess the development plans of this area in future years.

The Westbank Strategic Plan: Rebranding Report recommended that the Parish complete the wetland delineation of the Churchill/Fairfield area, pursue a FEMA map amendment, create and adopt a master land use plan, and address development regulations for the area.

The limited land resources in Jefferson Parish play a significant factor in residential and school enrollment growth. However, the East Bank's convenient location and aging housing stock means that many sites could be redeveloped into new and possibly denser housing while the West Bank's increased accessibility could lead to the only large scale residential development possible in Jefferson Parish.

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	180,245
July 1, 2007	180,704
July 1, 2008	181,828
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 I 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. The numbers of single-person households and single parents are growing while the number of married couples is falling.

ECONOMIC TRENDS: REAL ESTATE

According to the REMA, steady gains in the residential sales market in Jefferson Parish have helped reduce unseld 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.

ECONOMIC TRENDS: EMPLOYMENT

The New Orleans Metropolitan Statistical Area (New Orleans, Metairie and Kenner) shows unemployment settling down to 6.1% in September 2015. 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.

National Real Estate Investor, http://revionine.com/multifamilu/good-news-multifamily-reet-growth

^{*} United States Department of Labor, Sureau of Labor Statistics. Economy at a Glance. http://www.bls.gov/eas/leas.la neworkers.mca.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.

Year	Paid employees for pay period including March	First-quarter Payroll	Annual Payroll	Total Establishments	Average Payroll per Establishment	Annual Pay per Employee
2000	216,782	\$1,433,425,000	\$3,879,968,000	12,843	\$457,872	827,124
2001	212,766	\$1,483,196.000	86,124,242,000	12,694	\$482,452	\$28,784
2002	209,974	\$1,484,747,000	\$6,152,795,000	12,655	\$488,565	\$29,446
2803	206,250	\$1,479,192,000	86,149,310,000	12,680	\$484,732	\$29,815
2004	203,114	\$1,512,332,000	\$6,246,745,000	12,693	\$492,141	830,755
2805.	199,425	81,527,194,000	96,155,023,000	12,493	\$492,678	\$30,664
2006	161,373		\$6,949,623,000	12,142	3564,126	\$87,765
2007	189,766	\$1,708,812,000	87,002,129,000	12,288	\$360,835	\$36,899
2006	191,346	\$1,814,736,000	\$7,427,487,000	12,107	9613,487	\$38,817
2009	[86,338]	\$1,763,941,000	\$7,226,544,000	11,928	\$805,847	\$38,792
2010	178,959	\$1,702,874,000	\$7,186,634,000	11,805	\$608,779	\$40,158
2011	179,250	\$1,765,671,000	\$7,477,828,000	11,697	\$639,295	\$41,729
2012	180,743	\$1,876,494,000	\$7,657,946,000	11,614	8689,258	\$42,369
2013	178(499)	\$1,879,155,000	\$7,745,951,000	11.630	8666,118	\$43.410

Prepared and Updated to Villocaso & Associates, EET Gluty 3815)

Source: E.S. Bureau of the Centus Servicesia General

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.

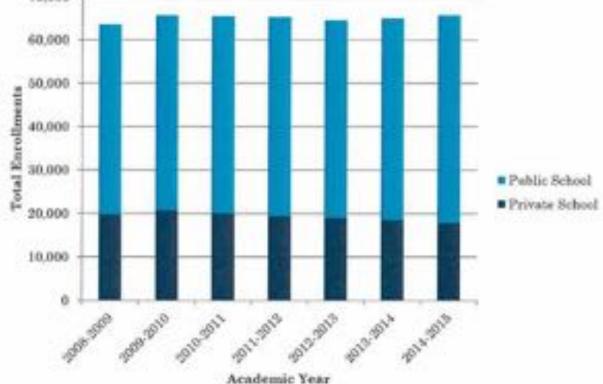
Our analysis begins by examining historic patterns of growth in the System from 1990 to 2015, the most recent school year for which enrollment data are available. Census data for

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 2005-2006 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 ENROLLMENT TRENDS: PRIVATE

Overall, private schools served about ten percent of the nation's kindergarten through 12th 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 School's 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 Excellment 2014-2015	School Excellences 9819-9014	School EarsCount 2012-2012	School Recollected \$800 deta	Subsoil Ternilmoni 2000 2011	Percent Change to Enveloped 2014 vs 2016
East.	Archheshop Chapelle High School	706	750	776	793	844	-10.97%
East	Archbishap Rammel Junier High School	242	851	245	276	299	-12.92%
East	Archbishop Rummel Senior High School	1442	451	-677	560	591	-11.60%
East.	Conguering Word Christian		New Su 2014	7-319			
East -	Atonement Lutheran School	216	244	249	347	256	-18.35%
East	Common sty Day School (New Orleans)		27	38	50	91	-200.00%
East.	Creacing City Christian School	349	307	323	365	303	14.43%
East-	Excle Classapin	250	116	1900	384	293	-11.97%
East.	Faith Latheran School	66	65	28	67	73	1.49%
East.	Hentage Academy	CLOSED	CLOSED.	C1.068(1)	50	70	
Eart	Inhonic School Of Greater New Orleans	130	163	116	161	109	-7.89%
East	John Curtis Christian School	849	453	796	796	769	6.66%
East	Kehoe-France School	132	440	. 1402	891	561	-17.09%
East.	Lutheren High fichool	103	79	77	-55	76	.87.27% ·
East.	Memorial Baptist Christian	4#.	47	36	.29	61	23.08%
East:	Metairie Park Country Day School	710	724	710	722	209	1.11%
Enst	New Direction Academy	530	6.90	New for 2010			100000000000000000000000000000000000000
Enst	Our Lody Of Divine Providence School	186	235	236	250	267	-15.20%
East	Our Lady of Perpetual Help School	233	220	219	173	294	36.99%
East	Ridgewood Preparatory School	236	257	234	246	237	-4.07%
East	St. Agnes School	155	212	222	107	185	-7.19%
East	St. Angela Moriei School	378	397	367	384	385	2.07%
East	St. Ann Elementary School	529	651	647	RIN	796	0.24%
East	St. Benilde School	132	236	239	268	246	-33.43%
East	St. Cutherine Of Sieta	506	59.1	300	882	850	4.08%
East	St. Christopher Elementary School	588	606	656	677	600	+33,15%
East	St. Clement Of Rome School	490	492	450	536	521	-10.45%
East.	St. Edward The Confessor School	437	444	497	491	592	-11.00%
East.	St. Elizaboth Ann Seton School	427	464	491	487	493	-12.32%
East	St. Francis Xavier School	413	416	418	400	422	3,75%
East.	St. Leuis Ring Of France School	251	251	220	362	254	-30.66%
East	St. Martin's Euroopal School	479	488	523	113	511	4.63%
East-	St. Mary Magdaleo School	301	817	.053	363	398	+17.0904
East	38t, Matthew The Apostlo School	401	429	442	497	546	-19.72%
East	St. Philip Nen School	699	627	668	649	635	4.41%
East.	St. Sita School	343	362	395	382	392	-10.21%
East :	Torah Academie	18	CLOSED	CLOSED	15	14	20.00%
East	Victory Christian Academy	291	190	196	197	141	2.03%
East	PRIVATE SCHOOL ENROLLMENTS	12,687	12,646	12,307	13,596	12,718	-7.39%

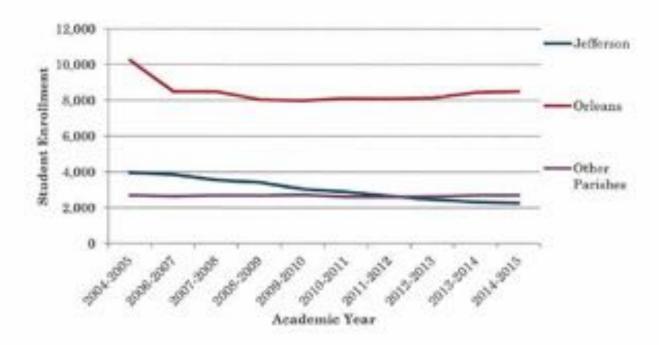
Bank	Private Schools In Jefferson Parish	School Excolleges persons	Referred Envolvement justi-justs	Solved Secodlosent 2013-2013	Period Enrollmont (011-3001	School Englished	Person Change in Services 9014 rs 3014
West	Academy of Our Lady	474	462	473	533	556	-11.07%
West.	Archbishop Shaw Junior High School	116	123	129	154	179	-24.68%
West	Archbishep Shaw Senior High School	274	282	330	351	378	-21.54%
West	Anden Cahill Academs	494	621	430	417	366	-3.12%
West	Believers Life Christian Academs	CLOSED	CLOSED	CLOSED	CLOSED	367	
West	Christ The King Elementary School	300	353	369	371	359	-19.14%
West	Concordia Letheran School	193	217	229	237	210	18.57%
West	Conquering Word Christian	50	63	75	151	213	-90,13%
West	Faith Academy	66	44	85	106	136	-37,74%
West.	Immaculate Conception School	565	618	675	138	747	-20,73%
West	Knights Academy and High School	42	63	59	62	-56	-32.26%
West	Muslim Acodony	225	218	190	191	176	19.37%
West	Our Lasly Prompt Succes School	310	254	297	184	171	68.48%
West	Saless Lutheran School	CLOSED	CLOSED	CLOSED	CLOSED	241	
West	St. Anthony School	262	271	249	234	237	11.97%
West	St. Cietus Elementary School	100	361	579	553	455	-5.97%
West	St. Rosskie Elementary School	625	665	783	733	710	-14.80%
West	Stepping Stones Montreweri School	13	. 62	67			
West	Weatherford Academy	=10	≤30	New for 3003	1000	1000	CONTRACTOR
West	Vinitation of Our Lady School	680	727	797	767	730	-11.54%
West	PRIVATE SCHOOL ENROLLMENTS	5,182	5,414	5,696	5,760	6,271	-10.315
ALL	TOTAL PRIVATE SCHOOL ENROLLMENTS	17,774	15,460	25,002	19,378	15,385	-8.27%

Data Seator: Evaluate Security of Advances

President by Villarian & Associates, LSC (Single-biller 2015)

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



SCHOOL ENROLLMENT TRENDS: OTHER

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-echooled. 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

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 co-horts. 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 Ferecasts; 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.

Crade	Mise pers Change in Enrollment	Yield	Onisions Change in Carolinast		SHOT-SHITE Change in Exercises	Tietd	(661-0015 Charge in Errelment	Yould	2008-2833 Change in Exercises	Youte	SHE-JEST Cleange in Encodings	Yield
Ten Kondreigerbie		0.0094	-146	44890	1.00	-4:30# i	-	4-9000	- /9:	-0.2953		9.292
Rieslang school	-019	4,91,98	36	0.7798	. 322	3.1259		3,4603	1.193	4.10/19		0.003
Plot Deale	300	63544	150	25500	304	1,300.0	- 04	4-4201	306	1,140.7	114	0.528
Second Strate	160	8,0369	476	1.17(6)	- 9	3,1790		49048	-1.06	-0.A095	134	0.600
Search Greate	55.0	1,09790	- (4)	-91190	-48	4.3541	100	8,0058		0.0404	180	0.001
Proords-Dande	-49	< 2160	-26	-0.0962	-125	-0.9900	- 47	1,2181	261	1,2568	120	0.304
Philis-Grade	179	63200	1300	-0.058.6	99	8-1000	10	_BMAT	:143	-0.11346	100	0.280
Risch Grode		4,1700		93004		1.0064	340	1:1700	98	93488	The	9.794
Screenth Oracle	350	1,0294	- 4	-0.00050		1,000	-15	-0.00001	- 1	0:0001	-310	-8100
Fighth-Death:	140	6.000	IIP	-0.903H	149	0.2489	- 4	62878	- 91	4967	120	5401
Klants Strade	41.0	3,3063	1100	33966	-126	43941	1427	-0.0644	400	3.2540	18	0:043
Footb Grade	124		. 60	0.07500	-016	-0.4054	100	0.1046	-119	-1.9603	8100	. 94607
Directorit Consider	30%	0.0000	-180	-0.7310	+100	-0.0636	100	0.9000	-800	-3.88008	- 570	-0:10:0
Decidio Cirade	1854	4380		353163	1706	343400	200	3,8006	-180	-6.4653	130	6368
Lit Total	3400	4.0960	7940	3.8956	100	0.1591	187	A.7465	854	9.3506	246	8.600

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.

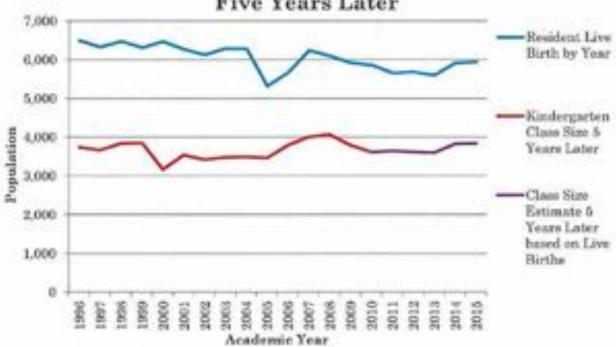
As of now, each new building permit in Jefferson Parish seems to indicate 1.5 students enrolled in the Jefferson Parish School System. Should the future population and housing trends deviate significantly from the assumptions presented here, they will affect this forecast. Yet, some components of population 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.

LIVE BIRTH RATES

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



ALTERNATION AND ADDRESS.	Enrollment by		sident Live I	Births for Jeff	erson Parish	
Jefferson Par of Residence	ish Lise Births By		Kindergarte	n Class Size		
1000 PART TO THE	Center for Health a Center for Health	100000000000000000000000000000000000000	Data: Louisian	a Department of	Education	
Year	Resident Live	% change from provious year	Year	Class Size	% of Live Births in class	Class Size Extinute based on Live Births*
2015**	5,940	0.47%	2020**		64.56%	3,835
2014	5,912	5,63%	2019**		64.62%	3,820
2013	5,596	-7,48%	2018**		64.23%	3,594
2012	5,680	0.49%	2017**		63,64%	3,615
2011	5,654	+3.48%	2016**		64.38%	3,649
2010	5,858	+1,01%	2015	3,648	41,59%	3,608
2009	5,918	-2.89%	2014	3,844	64.59%	3,844
2005	6,094	-2.31%	2013	4,058	66,59%	4,058
2007	6,238	30.10%	2012	4,002	64.16%	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%	870000
2002	6,124	+2.28%	2007	3,415	55,76%	5
2001	6,267	-3.11%	2006	3,537	56.48%	
2000	6,468	2,49%	2005	3,161	48.87%	7
1999	6311	2.44%	2004	3,845	60,93%	
1998	6,469	2.34%	2003	3,833	59,25%	
1997	6,327	-2.54%	2002	3,666	57,98%	

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

2001

Prepared by Villarians & Associates, LLC (November 2015)

6,492

1996

57.50%

3,733

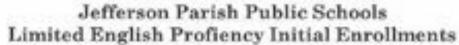
[&]quot;Resident live birth" does not mean a huly born in Jefferson Parish - it means a huly bose to a resident of Jefferson Parish. The National Center for Health Statistics and the Louisians State Center for Health Statistics provide these numbers. As people move, many of those babies born to Jefferson Parish residents won't be here five years later. In 2002, 6134 live births were recorded as being born to resident sould residence was Jefferson Parish. Typically about 50-60 percent of the resident line births for a year actually show up in kindergarten classes five years later.

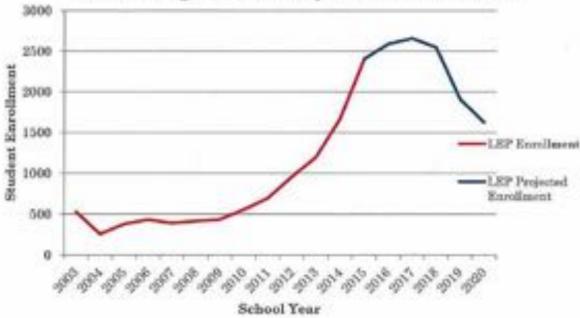
^{**} Base Number Projection.

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.



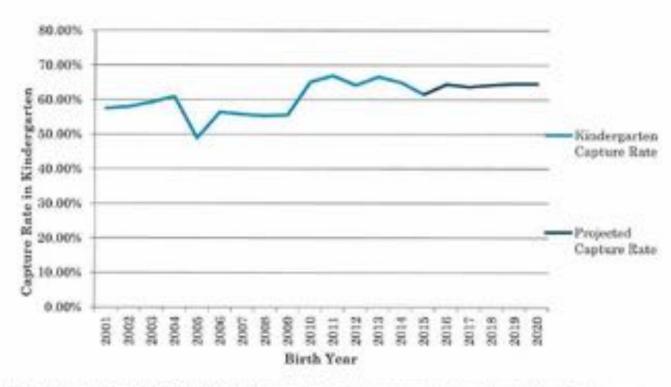


CAPTURE RATES

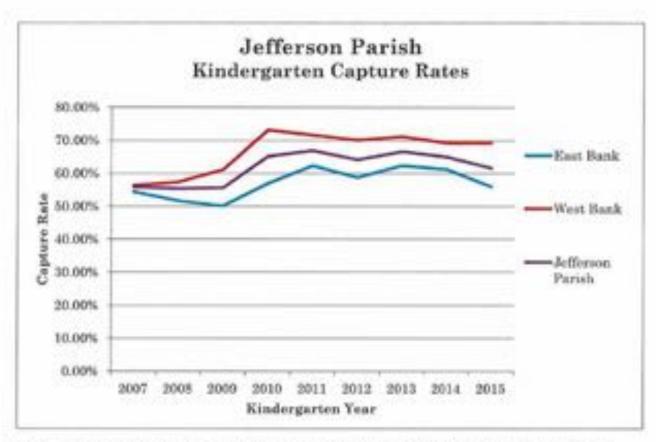
Analyzing data on 2010-2015 enrollments, numbers of home-schooled children, and students in private schools led us to estimate the capture rate for the Jefferson Parish Public School System at a level of close to 62 percent overall, a 3.5% decrease in the past five years since 2010. This means that six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



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.

Veur	Papalistina	Current New Live Sirth Race	Lise Stirth as % of population	Civiler 8 population	Live Birth Percent of modes 5 pap	Live Birth using Under S	Curent Vent Kindergarten Class Sine	Sündergarten class size as a percent of US population
2007	453,154	6,297	1,39%	29,813	21.12%	6,297	3,733	12.52%
2002	453,429	6,124	1,35%	29,919	20,47%	6,124	3,666	12,25%
2003	454,533	6,387	1,38%	30,202	20.82%	6,514	3,833	12,699
3094	456,602	6,278	1,37%	30,609	20.65%	6,278	3,845	12,64%
3005	456,554	5,312	1,1676	30,699	17,34%	5,312	3,161	10,30%
3604	426.285	5,666	1.33%	25,448	22.27%	5.666	3,537	13,90%
2007	432,683	6,238	1,44%	27,384	22.78%	6,238	3,360	12.27%
2008	431,759	6,094	1.41%	28,422	21,44%	6,094	3,442	12.115
2009	431.921	5,918	1.37%	28,368	20.86%	5,918	3,489	12,30%
2010	432,552	5,858	1.35%	28,366	20.68%	5,858	3,461	12,2016
2011	433,426	5,654	1,30%	28,339	19,99%	5,654	3,790	13.37%
1012	433,577	5,680	1,31%	27,832	20.41%	5,680	4,002	14,38%
1013	434,767	5,596	1.29%	27,164	20.60%	5,596	4,058	14.94%
1014	435,716	5,912	1,36%	27,293	21,66%	5.972	3,844	14,08%
1015	435,786	5,940	1.36%	26,698	22,25%	5,946	3,608	13,51%
2696	415,855	3,922	1.34%	27,052	21.23%	3,743	3,803	74,06%
2017	425,525	5,626	1.34%	27,014	27.44%	3.797	3.833	14.19%
2698	435,995	5,870	1.34%	26,921	27.64%	3,827	3.687	13.67%
2907	436,064	5,879	7.32%	28,996	27.64%	3,842	3,732	23.62%
2626	406,04	5,618	1.33%	36,336	22,49%	3,697	3,715	14.00%

Nandary in bold are actual Census, Builth and Education statistics. All other market are estimates and projections

Transbers in Station are FB. 8 estimates Proposed and Epidered by Fillmann & Societaes, LEC (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.

School Year	2015-2016*	2014-2015	2013-2014	2612-2013	2011-2012	2010-2011	2009-2010
Live Births	5,858	5,918	6,094	6.238	5,666	5,812	6.27
Barth Year	2010	2009	2008	2007	2004	2005	2004
Co-Arm Surraugt Birth - Pre-K	0.36417	0.73522	0.32538	0.25412	0.75244	0.28846	0.43303
Pre-Kinderparten	2,659	1,952	2,012	2,158	2,206	2,201	2.2%
Codent Surment Roth of	0.61591	8.64954	0.66590	0.00155	6.66898	0.65156	0.55573
Gedengertes	3,606	3,844	4.058	4,002	1,790	3.463	3.489
Co-Aust Sanwoll K - I	1,04343	7.09003	F-DEETE.	1.09000	1.04294	7.16593	1.12769
First Grade Students	4.634	4,383	4,2530	4,101	3,147	3.845	3,861
Co-hoet Surgical: 1 - F	0.54552	8.88169	0.06272	8.97532	0.96229	8.96931	0.97474
Second Guade Students	4,159	4,193	3,941	3,668	3,700	3,746	3.656
Co-hart Sanual: 2-2	11.35969-7	7.86689	0.00503	0.59455	0.59035	1.00002	2.02009
Third Grade Students	4.255	3,964	3.613	1.641	3.691	5,669	8,504
Co-hart Surmal, 8-8	8,97968	1.00022	2.04673	1.62732	-1.67877	1.69552	2.24974
Forarth Geade Students	3,885	8,788	3.817	3.831	3,958	3.911	3.923
Co-hort Survival: 4-5	0.96230	0.32256	0.000001	0.07947	0 865.25	0.52394	0.85589
Fifth Grade Students	3,596	3,543	3,330	3,453	2,365	3.350	3,191
Clarkert Surpried: 5 - 6	8.59637	1.01084	1.01047	1.01575	1.02745	1.07314	1.63575
South Grade Students	3,539	3,356	3,489	3,418	3,412	3.265	3.701
Calary Survival: 4 . 2	6.59778	1,00172	9,92470	0.53542	0.97323	1.00281	0.97933
Severath Grade-Students	3,315	3,495	3,195	8.201	3,197	8.211	3.062
Co-hart Sunday: 1 - 8	7,68980	1.05837	7.06415	0.99437	0.94579	0.93767	0.58507
Eighth Grade Students	3,401	3,381	3,691	2,179	3,030	3.049	3.351
Co-hert Survival: # - 9	7.76627	1.10527	7.10098	1.11400	1,16575	1.09818	1.10220
Ninth Goade Stadents	3,720	3,766	3,500	3,381	3,553	3,680	3,451
Co-Aeri Survious 8-10	0.86773	0.83057	0.51248	0.74866	0.75894	CARRELL.	0.63644
Treath Grade Students	1,243	2.907	2,747	2,600	2,910	2.912	2,874
Co-hart Surmour 20-12	W.97695	0.88313	6.36527	9,81857	0.92329	0.88763	0.97641
Elevanth Grade Students	2,810	2.426	2,416	8,083	7,686	8,554	2,501
Co-Anri Survicul: 11 - 12	1.00307	1.00276	0.35077	0.03417	1.01040	0.04662	0.91881
Two litth Grade Students	2,448	2.471	2,559	2,485	2,503	2,390	2,333
Total Enrellment Pre-K	8078		150.6	1.00		3 - 023	
through Twelfth Grade	48,006	47,420	46,025	45,760	45,883	45,253	44,751

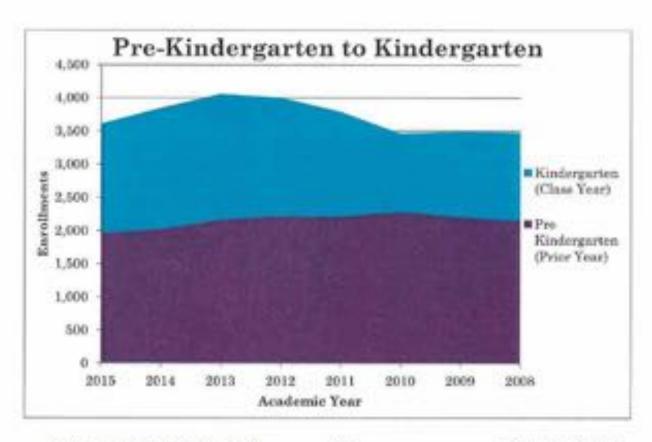
PRE-KINDERGARTEN CAPTURE RATES

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.

		School Syster parten Co-hort St	
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	4,058	2,158	1,88
2012	4,003	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
2006	3,477	2,147	1.62

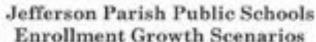
Prepared by Villacaso & Associates, LLC (November 2015) Data Source: Jefferson Purish Public School System

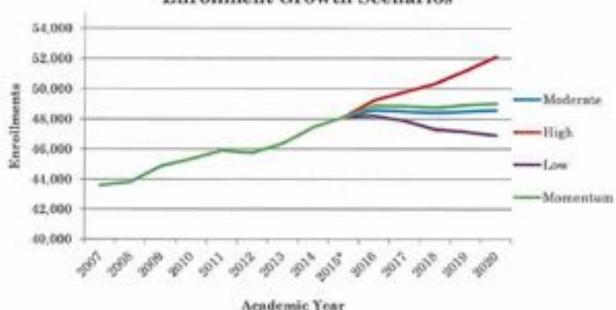
In recent years the Pre-Kindergarten programs in Jefferson Parish Public School System have been stable, meaning the children that go to Pre-Kindergarten are reasonably assured they will attend Kindergarten in the same school. When this happens, more children attend Kindergarten when the Pre-Kindergarten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



PART 3: GROWTH SCENARIOS

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.





MODERATE (BASELINE) GROWTH ASSUMPTIONS

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.

HIGH GROWTH ASSUMPTIONS

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.

LOW GROWTH ASSUMPTIONS

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.

MOMENTUM ASSUMPTION

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 noman 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 carollment 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.

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DOM: NO	19	23,580	3.090	100	1,399	1,631	1,755	1,394	1,841	1,000	1.934	1,007	LYM	1,963	Lette	1381	1.86
SUS East	7	88,139	1,964	951	1,719	1,616	1.783	1315	1,000	1,934	1.938	1,001	1,756	1.886	Lette	1.340	1.16
BETTER	¥	21,936	1,986	904	1,309	1,883	1,990	1387	1019	1,600	1,745	1,646	1,606	1,284	1,479	1,130	1.30
2014 Evet	¥	22,807	1,904	87.6	1,14	1,891	1,994	1,996	2,036	1,743	1,530	1,504	1,084	1,840	1.384	1,336	130
2013° Ka	¥	75,344	4,114	387	1340	2016	1361	1980	1342	1,600	1.001	1,522	1,610	1,63%	1,460	1387	1.00
2004 Kart	1	22,609	1,096	1,003	1,996	2,130	1,000	1,800	1,744	1,636	1349	1,564	1,477	1,256	1,090	1.642	1.00
2013 Kast	¥	21.120	3,150	1,000	1,965	7,034	1,828	1,666	1,660	1,834	1.542	CMB	1,007	1,611	1,177	1.686	1.80
2012 Kad	¥	28.510	1,341	3,040	1,904	1,950	1.663	1425	1,625	1,549	1,500	1.347	5.438	LMO	1,170	1.6/8	1.16
2011 East	¥	20,430	1,508	ALC:N	1,247	1,086	1001	1,418	1,782	1,477	1.450	1,365	1,990	1.648	1.487	1300	100
1919/East	¥	19,507	1,191	1,019	1,354	1,728	1,366	1,618	1,696	1381	1.912	1.421	1, 324	1.658	1,518	1,380	180
2000 East	¥	19,225	1,110	1,363	1,348	1.648	1381	1,812	1,055	LMA	1,394	1,900	1,311	1.481	1,200	1.600	G6
2006[544	y	18, 438	1,529	1,100	1,498	1,614	LATE	1.408	1,000	1,500	1,369	1,000	1,314	1,438	1,040	1.805	8
FEBRY Sant	-	18.44.1	# 70cc	1.647	1 1006	1 664	9.480	1 1004	1007.0	1 881	1 3000	0.5064	0.007	1 1100	1		1

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9019	No.	24,306	1,090	368	LADA	1,947	1,855	1.815	1,100	1.886	1,876	1.942	1,000	2000	1,679	1.487	1.470
2018(3	200	201, 906.	1,964	973	1,794	1,953	1,120	1,274	1,930	1,804	1338	1,574	1,760	1561	1.540	1413	15
2017	10	23,462	2396	200	1,780	1.881	1,381	1,944	1,947	1,901	Link	1,678	1,696	1,400	1.585	1301	1,000
2916	H	23,000	1,301	212	1,790	1.838	1,343	1,961	1000	1.790	1.648	1.4609	11811	1,880	1.384	1,356	1.364
20005	144	22,364	3,114	1904	1,740	1000	1,964	1,589	1,042	1,690	1,401	LARK	1,630	1.636	1,465	1,287	1,000
10114	- See	23,000	3,996	E,4603	1,686	2.130	2,00%	1,791	1,744	1,4000	1,349	1,584	17477	1.758	1.592	Lact	198
20135	188	#5C/#	A.15g	1,959	1,960	1000	1,478	1,660	1,095	1.500	1,543	1,345	1,445	1.601	11111	1.0000	1 000
2012	H	200,010	1,241	1,940	1,000	1,967	1,663	1,427	1,636	1.86	1,505	1.3400	LAIM	1,307	1,170	1.806	1,188
2011]	Cant	20,436	1,868	1.078	1,787	1,660	1.351	1,618	1,7800	1,471	1,412	1.063	1,390	1.562	1.357	1.919	11.66
30180	×	19,397	2,331	1,139	LSN	1720	1,586	1,618	1,400	1,387	LAIS	1,440	1,326	1,524	1.534	1.100	188
28090	1885	18,225	3,198	1,140	1,000	1,642	1,381	1,512	1,331	1,365	1,396	1,363	1,815	1.481	1.220	1.625	928
2000	Jan.	18,096	4,829	1,130	1,460	1,634	1,477	1.460	1,480	1,300	1,588	1,384	1,314	1,438	1.865	1,615	504
paorii	Sant.	38,464	2356	1.947	1,434	1,594	1.452	1,385	1,430	1,251	1.996	1,3960	1.818	1400	1.596	1.000	ľ
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SMOODLANG	22,430	3,007	300	1,566	1,882	1,780	1661	1,674	1,688	1.784	1.548	1,365	1	1.000	1 200	1.80
2011(E) Last	22,50%	1,000	909	1,744	1.804	1,799	1.668	1,786	1,5455	1,843	E	1400	1.834	1,000	1.046	1 80
2014(Kest	22,429	7,954		1,673	1.796	1,665	1,574	1,939	1987	1,800	1,620	1,648	1,696	1,965	1.500	1
2017 Last	22,522	2,346	979	1,660	1,789	1,365	1,914	1,978	1,894	1,712	1.601	1,520	1,4000	1,000	1,306	1.80
2010/Sett	22,539	1,301	973	1,400	1,871	1363	1.950	2,029	1,796	1,384	1,5427	1,585	1,800	1,313	1,199	4
BITT Kest	22,944	9.114	36.4	3,740	2096	1987	1,949	1,943	1,480	1,601	1,522	1,630	1,686	1.003	1961	1.00
201 (Cont.)	22,639	3,000	1,000	1,000	2.130	2,006	1,890	1,744	1,636	1,540	1,566	1,077	1,358	1200	1.042	1.00
2011[East	21,128	3,152	1,000	1,940	X 000	1,658	1.600	1,665	1.694	1,642	1,395	1.467	1,611	1117	1,636	1.06
2012 Sant	20,638	3,241	(1940)	1,960	1983	1,663	1425	1.629	1,548	1,000	1,347	1,418	1,500	1.178	1.63%	1.18
2010Zert	20,056	2,808	1.075	1,747	1,660	1391	1,618	1,704	1,477	1.452	1363	1,906	1,584	170	1,313	114
2010 Keed	19,697	2,733	1,119	1,554	1,738	1,268	1,618	1,62%	1,867	1.632	1777	1,124	1,278	1,338	1.166	1.60
BOOK Part	100,000	3,133	1,160	1,000	1648	1387	1.512	1,581	1,865	1,298	1,300	1.317	1,480	1,250	1.016	*
2000 Keet.	25.538	4,425	1,120	1,400	1400	1,477	1.404	1,690	1,800	1,300	1,302	1314	1,439	1,0903	1,615	8
mechant	28.084	2.544	1,043	1.4384	1.5086	1.4501	1300	1.433	1.804	1.3990	1 365	- 416	1,038	100	1 468	2

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	Select Bas	-	Live Bride	Kinderger ion	Kindargar	Franch	25	David Overhood	Freezh	Pritts Coafe	Stata	Serest'S Grade	Spirate Grade	Name	Condi	R.	Twelfth
12 12 13 13 13 13 13 13	2027/Each	22,495	1,000	2000	1,975	2,60%	Н	1.842	1,877	1,738	1,629	1,659	1.677	1.656	1,500	L	130
	2019 Uses	22.745	3,000	2000	1.904	II foots		1,884	1,780	LKIE	1,784	1.658	1.004	1,480	1380	Ш	1.84
	2014(Saot	22,054			1,890	1,5434		1,384	1.014	1,864	1,720	1.5427	1,500	1,710	1.344		136
Act 22,076 27804 278 1,876 1,854 1,854 1,854 1,854 1,854 1,854 1,864 1,750 1,662	2047(East	22,414	2.94	61.6	1,641	1.961		1,502	1,973	1,090	1,641	1,521	1,619	1,6008	1,380	Ш	1.32
Act 2014 A.1.4 Print L. Note 1,541 1,691 1,692 1,691 1,422 1,693 1,442 1,692 1,442 1,693 1,442 1,693 1,442 1,693 1,442 1,693 1,493	2015/East	22.678	2.90	60.6	1,8734	15.00		1.80	2,080	1,780	1,563	1.587	1,600	1,725	1,981	П	1.28
Act 1.156 1.766 1.866 1.766 1.866 1.766 1.866 1.766 1.866 1.766 1.866 1.766 1.866	2015* East	22,344			1,741	E.604		1,560	1,842	1,605	1001	1,522	1,620	NOW!	1,4831		1.86
1,15c 1,000 1,900 2,000 1,700 1,500 1,500 1,500 1,500 1,500 1,100 1	2001 (Done)	22,038	3,000	1,000	1,880	1300		1,690	1,744	1,686	1,500	1,584	1,472	1,788	1.390		1.62
1254: 1,645 1,980 1,980 1,880 1,637 1,658 1,540	2011(Spec)	21,126			1,960	2006		1,666	1,000	1,504	1347	1,385	1, 867	LGIII	H	ш	1.00
2,560 1,671 1,787 1,587 1,589 1,511 1,000 1,471 1,452 1,513 1,330	2012[Sact	20,618	124	1	1,980	1,962		1,620	1,628	1,549	1,5065	CHES	LAIN	1300	1,150	Г	1.180
4.75 1.15 1.654 1.725 1.559 1.618 1.650 1.457 1.457 1.457 1.458 1.459 1.	2011 Shell	20,136	2.80	1	1,585	1,686		1618	1,700	CAT	1.450	1,365	1,290	1,580	1,062	L	136
4,191 1,162 1,568 1,628 1,581 1,512 1,501 1,385 1,380 1,381 1,317 1,481 1,229 1,642 1,642 1,642 1,642 1,642 1,642 1,642 1,642 1,642 1,642 1,642 1,642 1,644	2000 Pant	19,990	878		1	1.729		1,618	1,60%	1,481	1,342	17771	1.324	1,578	1.10M	L	19
4,542 1,420 1,430 1,631 1,472 1,486 1,480 1,580 1,880 1,880 1,881	Dett Cast	19,245	113	1,169	1,505	1.643		1.512	1,554	1,385	1.304	1,003	1.817	1007	122	L	9
1,100 1,000	2009 Keet	18,438		1,120	1,4400	1.601		1,400	1,486	1,000	1,569	1,902	1,314	1,000	1,0801	П	8
	2000 East	13,468	3,70	1,047	1,496	1,3960		1,395	1,430	1,254	1.399	1961	1.812	1.438	1.130		×

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1000	- 13			ľ	1000	2000											
		20,150	1961		1,861	1,000	1,814	1,500	1,090	1,736	1809	1,966	1,946	1.90%	1,136	3696	1,50
2010/West	West	40.0%	2,811	1,007	3,894	1.942	1,842	1.9420	1,90%	1,785	1,997	1.961	1,348	2.640	1,188	1,5000	1,57
DB18 WAS	Want	25,1940	2.632	1.136	1,819	1,566	1,5900	1,540	1,584	1,5605	T. stern	1,750	2,878	2,650	1691	ľ	1,660
3817	West	25,540	2,724	(earl	1,879	2.001	1,963	1,909	3,400	1,090	1,880	1,865	1,0000	1,500	1,680		1,00
1000	Wash	10,199	8,734	2,010	1,897	3,607	1,954	3,157	2,255	1,774	1.904	1,86.1	1,386	2.825	1,727		1,53
MONTH.	West	15,753	2,739	1,004	1.897	2,600	2,135	2,1400	2,613	1,963	1,1034	1,780	1,885	1,004	1,780	1,559	1,44
在15日前	West	17,190	8.816	913	1,849	1.153	1,185	3,60%	1,990	1,900	1,690	1,913	1,304	1911	1,625	ľ	1,44
2015	Work.	25,429	2,942	953	2,903	2,217	2,000	1,847	2,697	1.796	1,95%	1,810	1,922	1,910	1,570		1.69
2965	West	95.390	2,007	1,113	1,000	2 150	2,005	2,000	1,000	1,564	1.912	1324	1,261	1.654	1,490		13
111青	Work.	12,150	1,758	1,1280	2,803	1,009	2,6495	2,003	2,256	1,565	1,975	1,601	3,646	1,991	1,660		1,444
3810	M-10 Treet	15,536	2,400	1,082	1,901	4,117	2,156	2.661	1387	1,0435	1,750	1,796	1,718	2,102	1,504		1.05
20000	West.	20,600	3,145	11111	3,961	2,522	2,600	2,000	S. S. S. S.	1,897	1.884	1,730	2,034	1.900	1.654		1,35
3000	West	11,162	1,638	1,001	1,962	1,135	2,655	2,691	2,153	1,790	1,7875	2,005	1,817	1,804	1.600		1,00
2007	Wast	20,186	3.908	1, 1006	1,860	1,120	1.063	1.858	1200	1.000	2.112	1.985	1.981	1.960	1.773		1.16

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11	1	110	100	Dadenger	Eladregae net	Grade	Greek	Greek	See a	d de la constante de la consta	110	Second) Great	Eagle Greeks	Shark	Grade	Derreith	19
m/00060	Year	27,189	2.642	1,116	2,967	2,150	1060	1,600	2,847	1361	1,540	1,080	2,137	1000	1.500	1	1,74
28-15 V	West.	28,667	2,817	1,007	2,806	1,800	2,600	2.003	1,963	1,942	2,150	2,079	1961	1,197	1,859	1,654	1
T-80.00	Ther	30,418	2,482	1,538	1.801	1.623	1,063	1,580	1.962	2,000	2,132	1,9823	1,3354	2.004	1,197		1.78
28477W	Want	26,500	2,754	1,627	1,900	2.002	(340)	1.987	2,156	2,062	1,00.6	1,900	1,890	2.010	1,386	l	1,700
2010 Want	Treet.	20,100	3,730	1,130	1.973	2,005	1,997	2,152	2,171	1,996	1,000	1,8900	1,652	1,990	1,000	L	197
20137 TT-141	T-test	88,158	2,738	1,099	1,807	2,808	2,195	2.166	2.043	1,900	1,508	1,798	1,835	1007	1,780	1,553	1.66
MELLIN	Tiest	20,392	2,036	200	1,340	1,250	2.185	2,60%	1,5000	1,0000	1,880	1,917	1.904	2.613	1,635		1.66
2011/Y	Tona.	15,139	2.942	197	3,863	4,817	1,006	1,947	1,000	3,786	5067	1,4166	(Sept	1,910	1,130	П	1.60
2812 7	1,000	23,290	2,990	1000	2,980	2.139	2.00%	2,638	1,300	1,964	1,913	1,854	1,361	1,850	1,490		1.99
2001174	Tant.	25,456	1,38	(13)	2,803	1.000	2,6479	2,603	2.2760	1,8600	1,978	1,847	1.646	1267	1.660	П	1,44
2010(1	Trees.	15,130	7,000	1,090	1,907	1,117	2.134	2.661	2,360	1,963	1,773	1,796	1,716	1,000	1395	ľ	1,380
Theory T	Wast	25,636	5.145	1,1157	1,963	X 3040	1,077	1,000	2,372	1,067	1,994	1,756	2,034	1,970	1.654		1.35
20017	Vent	11,162	3,400	LARCI	1,384	2.115	2.60M	2.601	2,053	1,790	1,737	2,065	1,617	2.804	1,646		1,22
merch	Tiest.	A11.11A	3.300	1 1000	1.8417	E 1800	12.00 m.	1.854	STREET,	1 45.64	0.114	1 dank	1 444	. 4000		l	

Of the Committee of the																
1	Pos K. 13 Davelloyed	Electric Street	Lindwiger	Endopped to	Sales of the sales	14	Part of	Passeth Grade	PARE	Brash Grada	Spenach	Betak	Sheft Great	Teath	Grade	Treethib
2020 West	24,460	2342	3,316	1,5991	1.941	1,816	1,801	17947	1,548	1,367	1.665	1.604	1.841	1.005.6	1.694	1.414
2015 West	24,424	2,817	1,007	1,3892	1,8656	1,887	1,899	2,923	1,564	1,000	1,642	1,734	2013	1.005	1,630	1.400
2018 West	24,863	2,639	1,120	1,748	1.907	1,938	1,90%	2,925	1.912	1,007	1.728	1,000	2.019	1.501	1,479	1,600
LTWest.	25,135	2,724	3,327	1,530	1,9609	1,981	1,980	2,290	2,907	1.361	1,666	LAST	1,900	1,616	1,575	1.500
MISC West	20,654	3,746	8,3300	LNAT	2.030	1,545.6	2.156	2,330	1,760	1,981	1,80%	1,765	1,978	1,714	1,620	1,100
MCD-CWest	25,153	E. T.18	1,095	1,007	2,618	2,195	2,100	2,000	1,900	1.900	1,736	Coope	2,091	1,346	1,000	1.448
2014 Week	がなれ	2.834	943	1,549	3,250	0.1800	2,671	1,960	1,909	1,607	1,941	1,004	2012	1,615	1384	1.486
2013 Wyel	10,120	2,942	252	2,003	2.207	1,000	1,947	2,090	1386	1,973	1,830	1,998	1,918	1,076	1,380	1.461
9012 West	25,216	1390	1,113	7, 100	\$ 130	2,000	2,018	2,900	1901	1,915	1,654	1,763	1,854	1,000	1545	(A)
2011 West	25,455	2,798	1,100	2,003	1,600	2,0400	2,973	2,284	1,000	1,972	1.831	1.646	1,953	1,660	1.00	1.404
PEWSH.	25,336	2,090	1,082	1,597	\$1111	2,154	2,002	2,360	2.5863	CTUB	1,790	1,736	2,182	1,674	1,440	1.353
Wilders.	25,419	3,143	E.117	17WEST	3,322	2.001	0.056	2372	1.807	1.801	1,140	3.6514	1,958	1,654	1,000	1.34
SCWeet.	10,300	3,436	1,071	1,5625	2.113	2,06M	2.01	2,23,0	1,799	1,257	2.660	LARTE	2,000	1.546	1,524	1,219
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5000	West	25,194	2,840	1,134	2,086	1,130	1161	119611	2012	1.787	1.950	2 628	1.600	0110	1.664	1 (400)	1 500
30190	West	38,157	2.817	L169	2,005	1.901	2.00%	1,011	1.590	1,774	2 167	2405	1.942			1,000	1 600
20150	Wood	26.160	2,003	1,138	1,922	2,000	2,000	1,893	1,905	1,963	2119	1,862	1.80%	1,000	1 684	1.643	100
2001)	West	26,21.5	2,720	1,117	2,017	2,139	1,935	1,922	2,186	1,9673	3,000	2.071	1.826	1,866	1.786	15	1 636
30700	Witer	26,113	2,790	1,180	2,04T	1,999	1,964	\$ 156	3,180	1,8600	2,187	1,823	1,403	1,006	1380	1000	1,574
30125	West	\$5,753	1,130	1,090.1	1,995.1	3,848	3,795	E.1600	2,013	1,0000	1,948	1,393	CROSS	3.084	1,780	1443	1.400
20014	West	35,793	3,806	949	1,549	3,250	2,185	2,638	1,000	1,5000	1,807	1,912	(1904)	2.612	1 dith	1,384	1,4460
2001.9	West	25,229	2.912	191	2,0963	2,115	3,0000	1.947	2,090	1,7863	1.975	0.8.1	1,802	1,800	1,838	1 900	1 608
200120	West	25,216	2,000	1,113	2,109	8,139	2,005	2,603	1,389	1,000	1101	1,854	1,201	1,854	1,480	1.546	1
20011	West	10,400	1,784	1,12%	2,000	2,000	2,0:00	2,613	2.250	1,6866	1.073	1.631	1,646	1.601	1.660	1.40.0	1 444
20000	Want	25,338	2.68	Lose	1,380d	2,117	3,1500	2,061	3,380	1,963	1,773	961	1,178	2,380	1,874	1.645	1 900
2000	West.	25,418	3,145	1,117	1.911	2,222	3,977	2.00M	E 8128	1,000	1,804	3,7356	2.694	1,900	1.654	1.400	1.00
2005	Wast	15,362	3,458	1.013	1,042	2,115	2,000	1,001	2,353	1,790	1,787	2,665	1.417	2.000	1.646	1,584	1 9108
2000	With the	25,115	3,369	1,1903	1,982	2,130	3,063	1,828	1,397	1,056	2,111	1.985	1.801	1.580	1771	1,486	1 143
Property	v Villa	Min de James	Mar 110	(Normalise 2)	SERIE .	1,1	115 English	at Mumber	sars Police	man Excells	nette			١	١		

1	1	fact.it	Britis	Kinderpr	Sinderport .	Please Greate	Second	Bard	Drawth Grants	Oraș	State Contact	Street,	Elgheth Orosto	Needs	Town	Breed	Twelfts Comb
30396A	13	26.010	5,040	2.040	3.756	1.000	2 629	2000	1,300	3.108	8.780	2000	1000	11995	4316	0.000	7.00
A0196A	3	-08,792	5,912	2,005		8,772	1,696	20,730	1320	XATT	3,618	2,673	3.597	4,000	3.907	2 609	2.500
SOLINGA	d	18,400	0.000	1.091	2,500	3,887	3,743	3,756	1.903	1,696	1542	8.442	3.654	1,004	1001	2.600	2,748
3007504	-3	48,473	0,699	2,098	1,566	1,977	122	3,877	4,310	3,916	1,966	1500	1,455	1138	3.161	8,380	£.900
301464	14.	38,590	5,654	2,169	3.627	3,695	3,879	4367	1299	8.512	3,644	2,433	3,352	13857	3.915	8008	1,466
A145165	-1	48,007	5,838	2,000	1,618	1027	4,130	4,150	1381	3,396	3,510	3,313	3,460	1,380	1,243	2,849	2,440
2014[A17	171	41,430	3,918	1,992	2,544	4,383	4,1900	1,548	1,733	3,546	3,394	3.495	2.361	1,366	2,907	1.00	347
201801	-	46,355	6,004	2,012	4,056	4,253	1966	3,683	1,502	3,326	1,517	2.185	1,500	1252	2,547	2414	E.Mio
3012SA	77	46.756	4.934	2,154	4.000	4,101	3,668	3,643	1.881	3,402	3,419	3,391	3,128	1.381	(1,000)	9,043	9,485
AUUK	177	45,000	1,000	1,706	8,790	3,787	1,600	3,691	1,958	3,363	3,434	3,196	3.004	8,955	2,940	2,765	2,550
months.	7	45,330	0,313	2,395	1,041	3,845	1,748	2,600	1341	1,000	3.245	1221	0.6-00	1,040	2312	2,555	1,84
2009[A17	17	44,843	6,076	2.040	3,499	1,600.	1,638	3.520	1.901	3,195	A.292	1,042	1981	1,451	2,874	2,000	E.SER
A2000C	177	43,600	629	2,191	2,462	8,149	1,574	3,420	A231	3,000	3,189	1,397	3,131	3,496	2.759	8000	3,196
MODELLA.	-	20.00	4.100	0.1.78	4 5000	244.0	0.000	-	4.4.00	0.414	10000	100.00	Mark Street	4 400	A ALL	7 1000	

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

Part (box of the box						ı	İ	I									
Approx Z.0042 X.0042 A.2054 A.2054<	Year Bank	Park II	Herbs	Orderper	Ninderger I	Bred Grade	Second	Sala	Frank	Craft	Hath Creek	Served Code	Stebsh Grade	Nuch	Towns	Hereoth Coats	Parith Couls
5,073 2,075 3,994 3,996 3,796 3,796 4,011 3,896 4,011 3,896 4,011 3,896 4,011 3,896 4,011 3,896 4,011 3,896 4,011 3,896 4,011 3,896 4,012 3,996 4,012 3,012 3,012 3,019 3,019 4,019 4,019 4,196 3,196 4,196 4,196 4,196 4,196 4,196 4,196 3,196 4,196 4,196 4,196 3,196 4,196 3,196 4,196 3,196 4,196 3,196 3,196 3,196 3,196 3,196 3,196 3,196 3,196 3,196 3,196 3,196 3,196 3,196 3,196 3,196 3,196 3,196 3,196 <th< td=""><td>DIMENT.</td><td>52,106</td><td>5,940</td><td>2,092</td><td>1,914</td><td>4,556</td><td>1,882</td><td>11.656</td><td>1.859</td><td>3,946</td><td>8,613</td><td>1,956</td><td>4.222</td><td>4.421</td><td>3,717</td><td>и</td><td>3,156</td></th<>	DIMENT.	52,106	5,940	2,092	1,914	4,556	1,882	11.656	1.859	3,946	8,613	1,956	4.222	4.421	3,717	и	3,156
AAMS 2.001 3.001 3.001 3.754 3.954 3.754 3.964 3.754 3.964 3.754 3.964 3.754 3.964 3.754 3.964 3.754 3.964 3.754 3.964 3.754 3.964 3.754 3.964 3.754 3.864 3.754 3.754 3.754 3.754 3.754 3.754 3.754 3.754 3.754 3.754 3.754 3.754 3.754 3.754	BOTHLALL.	51,179	5,913	2,003	3,904	3,973	3,890	3,867	1,500	3,500	3,996	4.011	3.854	4.832	1557		0.19
Actes E.711 R.943 R.722 R.121 C.504 R.724 R.121 C.504 R.724 R.124 C.504 R.724 R.124 C.504 R.724 R.124 C.504 R.124 R.124 <th< td=""><td>2018[ALL.</td><td>\$0,334</td><td>0,098</td><td>2,091</td><td>3,657</td><td>3,536</td><td>1381</td><td>3,754</td><td>3.948</td><td>3.500</td><td>4,000</td><td>1000</td><td>2,719</td><td>4,004</td><td>1.134</td><td></td><td>3,000</td></th<>	2018[ALL.	\$0,334	0,098	2,091	3,657	3,536	1381	3,754	3.948	3.500	4,000	1000	2,719	4,004	1.134		3,000
5,674 \$,520 \$,511 \$,473 \$,194 \$,415 \$,430 \$,43	\$017[ALL.	49,700	3,688	2,094	M.TR.L.	1,943	8,780	ESSE .	4.121	4,000	0.729	1434	1,100	23.00	3,355		3.04
5,629 2,620 3,624 4,724 4,126 1,166 3,176 <th< td=""><td>2016/ALL</td><td>49,277</td><td>5,654</td><td>2,160</td><td>8,732</td><td>1,473</td><td>1,940</td><td>1150</td><td>4.383</td><td>1,199</td><td>3,613</td><td>3,036</td><td>3,433</td><td>3,000</td><td>3.178</td><td></td><td>2,88</td></th<>	2016/ALL	49,277	5,654	2,160	8,732	1,473	1,940	1150	4.383	1,199	3,613	3,036	3,433	3,000	3.178		2,88
Auto 1,007 2,044 4,262 4,193 2,546 1,133 1,546 1,194 2,493 2,134 2,194	2012-ALL	149,007	5,838	2,000	1,600	4,034	4,139	4,150	1.885	3,596	3,539	33/15	3,465	9,726	1.201		2,46
6,279 2,290 3,400 3,200 3,200 3,500 3,500 3,500 3,410 3,190	SOLE ALL.	41,430	0,018	1,900	3.844	4,383	4,193	3,908	8.755	8.545	A.BM	0.495	3,001	3.766	1397		2,47
6,278 2,190 4,000 4,001 3,600 3,601 <th< td=""><td>DOLENTLE.</td><td>46,855</td><td>6,004</td><td>2012</td><td>4,004</td><td>4,053</td><td>3,944</td><td>3,613</td><td>1,754</td><td>3,226</td><td>3,512</td><td>2135</td><td>2,389</td><td>1221</td><td>3,347</td><td>L</td><td>0,000</td></th<>	DOLENTLE.	46,855	6,004	2012	4,004	4,053	3,944	3,613	1,754	3,226	3,512	2135	2,389	1221	3,347	L	0,000
\[\lambda_{0.00} \] \[\frac{2,000}{2,00} \] \[\frac{3,750}{2,00} \] \[\frac{3,200}{2,00} \] \[\frac{3,750}{2,00} \] \[\frac{3,200}{2,00} \] \[\frac{3,750}{2,00} \] \[\frac{3,200}{2,00} \] \[\frac{3,200}{3,00} \] \[\frac{3,200}{3,20} \]	sotriALL.	45.736	4.236	2,150	4,002	1007	3,660	2,643	1,831	3,463	3,418	1331	3,159	1,681	2.665		2.480
5,518 [285 2,485 3,485 3,585 3,595 3,595 3,195 3,196 3,295 3,211 3,586 3,295 3,295 3,485 3,485 3,595 3,595 3,595 3,195 3	gottijat2.	45,001	3,066	2,200	3,7940	1,347	1,600	1001	1,901	3,363	3,404	3.190	1,000	1,554	2310	Н	2,50
3.4450 3.8645 3.624 3.520 3.552 3.190 3.292 3.864 3.351 3.851	BOTH ALL.	45,885	6,513	1,391	1.461	5,843	8.746	1,000	1.9(1)	3,356	3,255	11211	2,040	1,550	2312		1.39
3,544 3,149 3,554 3,459 4,759 3,886 3,154 3,387 3,131	2009,417.	14,843	6,27%	2,390	3.489	3,965	1,639	3,500	1361	3,190	3,782	1.062	3,351	3,451	2.874		2,33
	TIV/secon	43,000	6,223	2,191	3,442	3,169	1,535	3,430	4.733	3,096	3,186	1387	3,331	3,436	2.739		2.19
3,513 3,778 5,540 2,812 3,512 3,515 1,245	2007[A12,	41,579	0,134	E.147	1,3000	3,718	3,513	8.973	0.540	2,872	1,512	1.050	12,243	3,627	2.900		2,14
Bradham Vantan at Polanian of Polanian	count to Villans	on & Associat	an 116 66	number 11115			Spendings.	Manahers a	- Pichania	v Steetling	4						

1	Pass A	Park of	1000	Ondergo	Kinderger	Fire	No.	The same	Parent .	Firms	dies.	Seconds	Hapteh	Ninds	Party	Hereit	Treelle
1100			mercons	V	100	Control	Section .	96730	tyrade.	Criste	Overdo	Creedy	Grade	Grade	Grade	Grade	9
pospt[ALL:	177	345,8000	3,540	3,093	3,637	3,870	8,042	1346	3,621	3,454	3.555	2,658	1,127	3,667	3.136		9.63
2013/412	177	45,130	3,912	2,975	3,636	1000	1390	1,556	1,013	3,000	8,799	3,721	1.363	1.847	8.016	2.684	7.7
Selection	177	43,236	1,396	2,001	3,460	3,735	1,600	1,123	1,943	3,654	8,877	3,842	3,502		2,900		17.7
2017[512	777	43,837	1,4940	3,00%	3,490	3,738	1,760	3,843	4.967	3,960	11478	11100	2.400	п	3.684	R118	2.00
2016[ALL	-77	48,198	3,654	3,166	3,490	3,9405	3,663	4315	4.353	3,678	1,615	3,621	3,986	3,771	3.600	2,948	12
MINI	145.0	48,097	5,839	3,000	3,618	4,014	4,150	4.100	3,580	3,596	1,539	3,355	0.465	1,000	1224	2,836	3,44
A) stoc	-	42,530	A318	1,914	3,844	1,363	4,1900	1,948	A733	3,545	1396	3,105	1.001	1500	2,997	1.436	2.40
2013	177	45,330	16004	2,912	1,036	1253	1,544	3,413	3.790	3,500	8.007	3,195	3, 809	1,727	2547	2.016	2.50
2012	17.	45.736	4.258	3,156	4,000	4,141	1,000	11843	3,800	3,483	3,473.6	1301	87.73	1.181	2,000	2,862	1.68
Victor .	ALL.	40,460	1,600	2,206	3,790	3,747	1,000	3,491	3,956	3,365	1.428	2,190	3,000	1,554	3,940	8,765	2.38
TIV/(cox	177	43,330	0.313	4,201	0.490	1845	8,746	1.000	0.015	1,956	1,000	2,211	3,040	3,690	2.912	2.685	1,18
DOOR ALL	Mar	44,843	4,276	2,390	3,696	3.866	3,656	1,570	2,922	8,150	1,217	3,062	1361	3.455	2.874	2.560	2.31
TV SOOR Y	ULL	43,406	4.297	2,190	1,442	3,749	3,552	1,420	3,733	1,094	1,136	BANT	8.193	3,130	2.728	8778	E.19
20000	7	41 5 750	8.124	2,147	3.3600	2716	2.112	R 275	18.648	SANS.	8.65-9	9 140	4.464	4 4000	new	Section 1	

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

Settored name	Preticial	Libre		Kladerper	Plent	Parent.	Third	Poseth	Fifth	Sint.	Second.	Deho	Wheth	Thereit	ğ	Touch
Year	Tampana.	Skribe	100	The same of	Contra	Grade	Grade	Crade	C. In	Geste	Gesdo	Grade	Grade	Grade.	400	Grand
DODGALL	48,996	A.397	2,092	1,063	4,195	3,00	1,601	3,869	3,040	1,637	ATTE	8.727	1.224	3.241	П	2.78
2015[ALL.	44,000	1,498	3,413	4,019	3,004	2,807	1,906	3,677	1,686	1.054	3,730	3,529	8,877	3,112	Г	2.85
2016/ALL	48,733	3,707	3,900	3,890	4.002	3,947	3.476	9.646	1643	1,590	2,499	3,564	1,714	3.095	Н	2.80
BOTT ALL	44.836	1,484	1,096	3,656	4,120	3,982	3,824	4,158	1,004	3,671	1,000	3,445	1.624	3,064		1,003
JUA HOLL	44,045	3,425.0	2,100	3,926	3,636	1,808	4.718	4,188	8,573	1,790	8,390	3,413	1,590	2.100	Г	2.85
mest ALL	49,000	0,856		1,639	4.004	4,159	4.105	3.845	1,006	1,500	4315	3,460	8,520	3,343	Ŀ	1.40
geneland.	47,430	5,918	1,910	3,844	4.563	4,195	3366	2,122	1,545	1,350	3,495	1381	3,766	2.560	ш	7.4
MANUALL.	49,530	4,004	2,012	1,034	1,000	1,941	11811	3,763	1,330	8.5577	8,196	3.869	1,527	2,545	п	2.30
metalata.	45,138	4,238	2,138	1,000	4,380	1,668	1.643	3,850	1,453	8.450	1000	3,179	8,280	1,000	L	2.48
TIVE SE	45,890	0,499	2,000	3,790	3,747	3.000	1001	0.954	1,060	1,424	3,196	3,000	3,553	1540		2.50
30000[ALL	45,335	5,319	2.560	3,460	0.5-45	3,190	1,4607	2,913	1,350	1,235	3,311	3,940	A.Gers	2912	L	12.0
MANAGE ALL.	44.843	4,278	2,250	3,046	3,865	1.008	3.570	3,904	3,1992	4,392	3,662	3,351	2.450	2,874	П	14.1
TROOT VITE	43,300	4,297	2,190	3,442	8,749	LAKE	3,439	9,739	1,060	1,120	3,281	3,131	3,636	128K	Н	1.11
good[ALL	41,579	4,104	3,147	1,800	3.738	1.516	1273	2.640	2,812	2.64.0	11380	3.54%	1.487	1,000	н	#11

MICRO-GEOGRAPHIES: INDIVIDUAL ELEMENTARY SCHOOL ENROLLMENT PROJECTIONS

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 7th and 8th 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.

CALCULATING CO-HORT SURVIVAL RATE OF ATTENDING STUDENTS

TRADITIONAL ENROLLMENT SCHOOLS

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.

2nd grade by school survival rate 2013-14 = (# of 2013-14 attending 2nd graders) / (# 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:

Projected 2014-2015 2nd graders = (average 2nd grade attrition rate from 2008-2013) * (# 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:

Projected 2015-16 2nd graders = (average 2nd grade projected attrition rate from 2009-2014) * (# 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

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

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.

MICRO-GEOGRAPHY BIRTH RATES

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 Hazahan 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).

Jellimon Pre	ish Public S	chool Sys	emi Ret	munted B	trih Rass	other Zip	Code			-		- 3
Earthank	10000000	1193	110000	EST	IMATED	BERTH	RATESO	Middlford)	100	WATE A		3717
CUP COOPE	29015*	2014	2013	2012	2013	2010	2009	2036	2000	2006	2005	2004
70001	5830	556	583	505	577	951	4500	532	479	454	-433	404
70002	221	232	166	210	239	290	2780	206	251	186	164	230
70000	350	.196	436	376	256	470	4525	\$16	349	434	45.0	541
10005	369	347	361	310	840	259	295	280	277	250	257	294
2000G	209	200	260	196	046	1030	#17	165	225	285	177	190
2000Z	320	312	325	334	260	200	200	275	250	295)	255	254
10005	572	989	412	573	614	968	687	690	725	661)	600	727
30121	87	101	710	65	95	168	137	340	147	110	123	142
30123	357	337	- 339	316	336	256	316	286	302	290	278	299
Totals	3,097	3.495	2.964	2,946	2,904	3,114	3,096	3,152	3.241	2.666	£.731	2.133
Westback	A 44.03%		-	ENT	IMATED	BERTH	RATESO	dod.(Sed)	Contract	5625 C	250	100
SIP CODE	2015"	2014	2013	2012	2011	2019	2009	2008	2007	2000	2005	2054
30016	377	25	17	44	20	15	- 11	13	15	146	140	- 14
70015	. 230	2877	E130	29.7	100	247	1590	231	210	195	1990	223
70016	637	637	550	6000	656	644	662	684	961	600	559	608
70001a	509	521	50%	485	441	560	584	621	642	625	357	650
70067	24	25	280	19	20	29	84	460	41	32	94	34
70072	502	877	. 7975	847	948	780	823	873	813	856	802	971
70004	490	483	501	458	4600	430	480	476	514	458	450	559
70858	115	-11	17	13	- 00	14	. 19	11	- 14	- 0	107	1.5
Cotale	2,542	2.817	7,631	2.724	2,750	2,739	2.834	2,942	2,991	2,796	2,607	3,145

Data Reserve: National Commercial Research Research (National Vital Statement 2004-1814). EVI Community Revenue. Assertions, Community Survey 2008-2004, ECCL 2003-2004 (National Property In Vital Surveyork In Vital Surveyo

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.

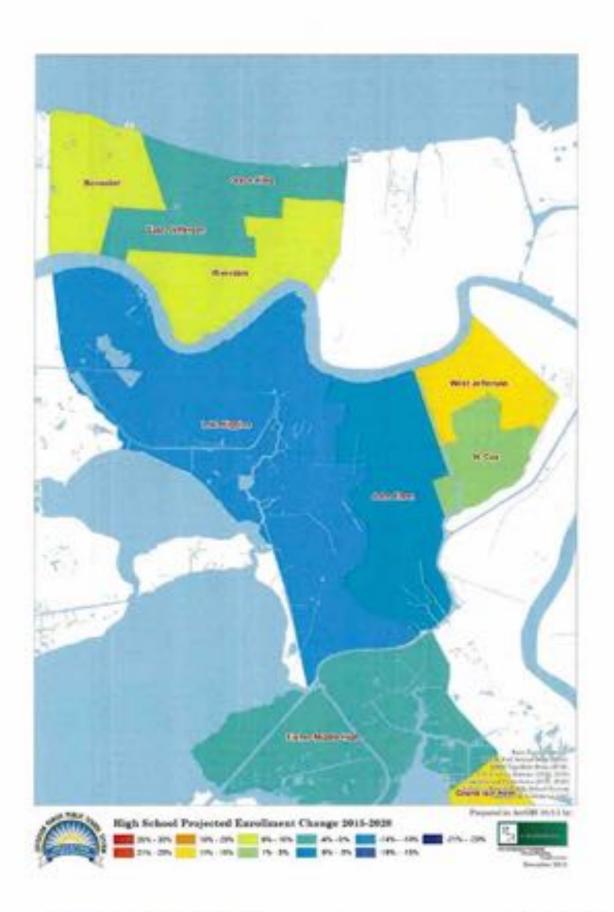
Jefferson Parish is projected to have a slightly higher than past years' rise in the 10-14 year old age group demographic. However due to grade configuration changes at five elementary schools, most traditional Middle Schools in Jefferson Parish will see losses of well over 10% of the enrollment population. Jefferson Parish is experiencing the grade re-configurations in five elementary schools, adding 7th and 8th 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.

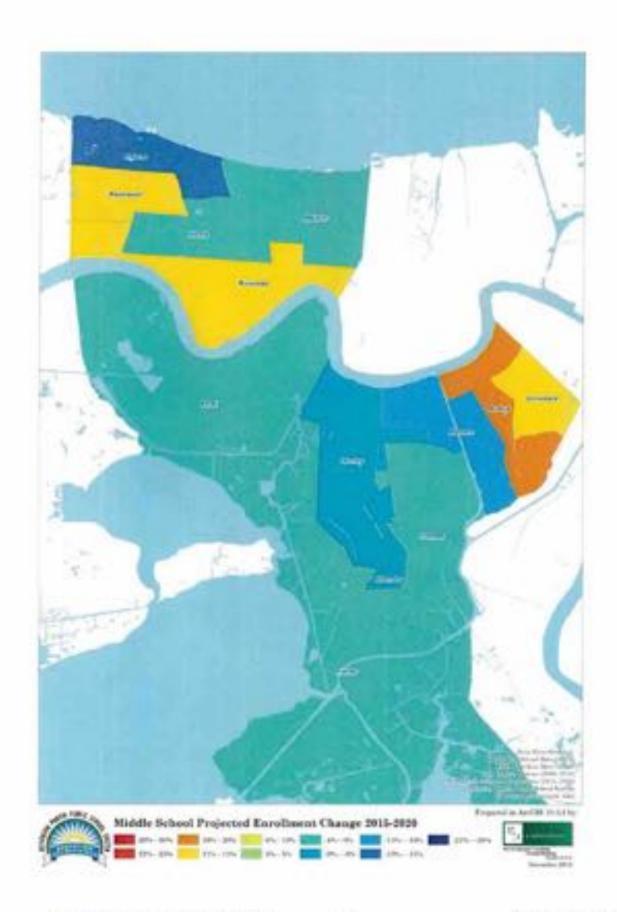
As requested by the Jefferson Parish Public School Beard, Villavuso & Associates, LLC developed a "best case" individual school growth scenario for all Jefferson Parish Public Elementary Schools with traditional enrollment boundaries. As noted earlier, individual schools are more subject to the vagaries 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.

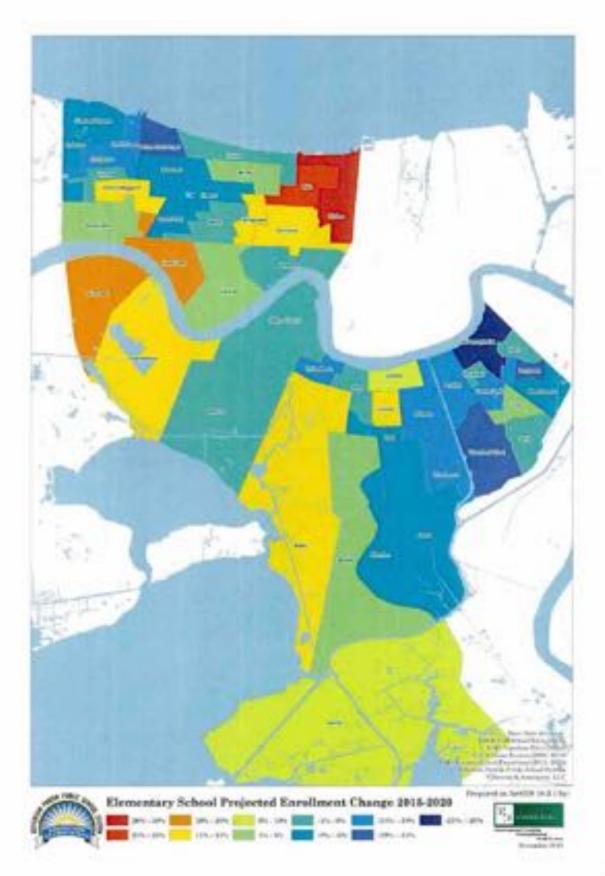
Five Elementary Schools (Lincoln, Ellis, Estelle, Matas, and Chateau Estates) have recently changed their grade configurations from PreK/K-5 to PreK/K-8. The addition of grade 7 and 8 at these schools will reduce the enrollment at the majority of middle schools in Jefferson Parish. Kenner Discovery Health 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.

	2500 15000		MONTHS.	DEACH.	25/19/20/2018	3812-3036
	2001-0151 Post-order	2919-0109	2016-0019 Projections	2917-2008	2616-0017	Prelimina
Name John Q Adama Maldle School	Progressions disc		Proportion (9)			Executioner
A.C. Alexander Elementary Below?	347	879		500	649	
J.J. Andelson Elementory School	421	450		469	10/0	_
Alice M. Strater Ellementary School	671	190	634	609	653	- 1
Rissonst Pleas Kinneylogy School	100	- 600	800	454	654	- 4
Bronneled Magnet Acedemy High Robots	1408		1460	1/550	1 100	
Mildred Harris/Bridge City Disseratory School	195		23.74		100	
Rindgefiels Riesmettery School Seineps Gen Elementery School	612	485	401	607	415	_
Stries Cox High-School	271		415	(E)	100	
Cile Delicante Compensary School	121	310	103	ANA	401	-
Cast Jefferson High School	1129	1800	11/56	1195	\$200	- 11
John Eltert High School	3849		3619	2154	1187	- 11
Clearly Hotels School	479	480	400	385	322	
C. Ella Elektristery School	100	860	843	414	800	- 1
Cote Se Eleanoriesy School	110		73.6	790	791	
Fasher Middle Migh School Messey Freet Middle School	480	485 545	500	ART 55.7	603	- 1
Creek Site Righ School	100	168	146	130	501 137	-1
Grown Park Elementum	405	the second second	100	100	603	-
Osperdeen Torono Kinemetraly School	400	401	440	100	179	
Gronne Mobile School	814	910	800	786	- 743	- 9
Blader Administration Field Elementary School	400	404	400	4000	110	- 60
Sarahan Elementary School	800	479	41	450	479	- 4
L.K. Horris McMile Robert	615 314	5/4	60	950		- 4
Edina Surt Elementus School		315	315	116	167	- 8
Leonate Anaboxy Charley Facel Pschribbs Kardf School	33.6	106	140	-40	107	
Phoelis House School	504	100	185	(M)	417	- 1
W. Higgins High School	1296	129	1288	1296	1004	- 0
refleren Etranstacy Johns.	310	366	871	2014	196	- 4
Servici Keller Elementury Selson?	500	MOR.	400	178	890	- 4
Destr. King Bigh Tuberi	1,3236	1141	146	3108	1534	140
Les modein Middle School	198	701	890	388	790	- 0
Lyn Osk Master Dissentary Billiani Lift Marries Heide School	990	179	201	261	265	
Corbolyth Mariae Strikest	124 (2)	TS1 862	99	787	796	
ticforegt #20 Elementary School	31.1	31.7	207	141	Del	- 1
D. Minister Middle Arbuil	196	691	454	713	Tell	- 1
Victoria Acadomy for Advanced Studies	275	379	380	913 375	368	- 1
Vir.A. Piter Elementary School	376	. 865	279	. 298	400	
(th C. Passes Remedate School	515		316	349	664	
Greedule High-Subout	10009	2300	960	1818	367	
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Volter 12 Schoolsedurger Clear School	676	652 ETX	641	400	600	- 0
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erderuk Druglass Elementury	275	100	284	250	286	28







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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Summery	1990 Centure 440 Vin		2000 C	****	Critical	2010	2015 Ib io	catto	1929 Projection			
Population	448,306		435,466		432,332		403,406		436,134			
Diseastorida	166,768		175(234)		169,647		170,096		172,409			
Average Branchold Sec	248		2.56		2.53		2.51		2.56			
Families	BOCKE		120,943		171,817		111,416		111,011			
Average Frends Size:	3.24		313		3.69		3.07		307			
Owner Occupied Housing Units	104,611		110,549		265,044		100,120		165,761			
Storter Occupied Housing Cens	61,787		63,885		61,662		68,00%		48,616			
Vacant Howard Units	18,674		HATT		29,498		19,500		19(040)			
Total Housing Usin	183,072		181907		189.535		390,539		191,445			
Median Age	10.3		35.9		38.2		20.1		36.5			
Trends: 2015 - 2020 Annual Rate					Arthurse	Paris	Louis	tens	Children	Clares.		
Population					0.0%		0.675		0.75%			
Households					0.04%		0.90%		677%			
Funding					-0.67%		0.71%		6900			
Owner 13th					0.12%		0.91%		0.76%			
Median Household Income					132%		2.6%		2.66%			
	3790 C		2000 C	*****	2019.6a Cassesson		2015 Epin	NAME OF TAXABLE PARTY.	2020 Pro	pertions.		
Households in income	Number	Percent	Number	Percent		Percent.	Number	Percent.	Number	Percen		
49100	41.965	25.2%	39,294	17.1%	23.929	ACPN	25.786	13.9%	21,904	12.7%		
\$15,000 - \$21,999	11,426	18.9%	21,967	14.1%	21,884	12.9%	21,810	17.8%	19,394	0.5%		
999,472 - 000,352	28,852	17.4%	15.167	14.6%	10.667	11.0%	79,466	11.3%	17,940	10.4%		
\$15,000 - \$19,000	30,039	18.7%	30,424	13.8%	26,293	73.5%	25,467	14.9%	36,439	15.3%		
\$30,000 - \$74,999	22,624	11.6%	33,426	18,9%	29,816	27.7%	29,075	17.0%	31,363	18.2%		
\$71,000 - \$00,000	6.281	3.8%	15,80	10%	19,146	17.4%	88,247	10.7%	19,545	11.3%		
\$200,000 - \$140,900	3,317	1.9%	10,459	5.994	68,322	20,896	17,655	10.4%	19,617	11.4%		
\$100,000 - \$200,000	1,800	8.2%	2,518	1.4%	5.768	3.6%	TANK	4.5%	9,035	3.7%		
\$200,000+	1.000		3,228	1.0%	8,616	3.9%	1,715	4.9%	9,079	5.3%		
Modian Fleuschofd Income	\$27.516		\$38,563		\$40,700		\$40,000		\$51,900			
Average Household Income	DUNK		\$11,064		\$83,797		\$16,167		\$76,665			
Per Capita Incomo	\$12,945		\$15,510		323,069		\$27,014		\$30,486			
	199E C	OSE DE	2000 C	- FEB 600 C	Centus 2914		2015 firm	nation	2820 Proj	inches		
Proportation by Age	Number	Percent	Number	Percent	Number	Percent	Number	Present	Sumber	Perrest		
9-4	32,777	2.3%	30,224	5.6%	28,166	6.6%	25,616	82%	25,516	.6.7%		
2-9	34,598	3.2%	31,811	2.0%	26,429	6.1%	21,191	6.3%	26,332	6.0%		
30 - 14	33,405	7.5%	32,617	7.2%	25,995	6.0%	25,761	5.9%	21,626	6.7%		
15-19	50,494	7.2%	32,436	7.2%	27,647	6.3%	23,986	5.3%	24,519	5.6%		
30 - 34	30,001	1.0%	29,798	6.2%	29,437	6.8%	26,911	62%	21,338	3.2%		
25 - 34	86,297	179%	64,551	14.2%	61,730	14.2%	63,914	14.7%	61,007	14.0%		
35-94	71,009	13.8%	73,201	16.1%	34.437	12.6%	30,329	12.3%	38,309	11.2%		
45 - 54	67,564	10.6%	64,834	14.2%	65,256	18.7%	57,767	13.3%	51,319	11.9%		
35-64		1.6%	41,632	9.7%	55,344	12.8%	50,586	13.8%	55,676	11.9%		
15-24	20,703	6.0%	30,025	6.6%	32.645	7.3%	39,783	9.2%	45,009	10.5%		
75 - 84	110,000	10%	1695	4.2%	(839)	4.5%	19,369	4.3%	22,672	5.2N		
6)-	3,372	0.8%	3,375	1.2%	7.745	7.8%	9,017	2.0%	9,112	2.8%		
	1990 C		2000 (5)		Cemm	Comm 2010		netes.	2629 Proj	extines		
Bace and Obstring	Number	Percent	Sumber	Percent .	Number	Percent	Number	Percent	Number	Present		
When Alone	M2,094	77.4%	NAME	69.8%	272.175	62,9%	265,379	61,2%	259,269	312%		
Black Alone	79,353	17.5%	104,121	22.9%	112,867	26.3%	115,706	26.7%	118,400	272%		
American Indian Alinna	1,752	6.7%	2,992	0.69	2.098	4.7%	2,179	0.7%	1,296	0.5%		
Asian Alone	1,000	2.2%	14,065	3.1%	16.603	3,890	15,149	4.2%	15,096	4.5%		
Photie Inlander Alone	100	4.0%	154	0.2%	179	9.8%	211	0.0%	297	9.1%		
Some Other Racy, Alone	4,314	1.0%	5209	20%	18,479	4.2%	71,000	4.8%	24,806	3.7%		
Ywo or More Rapes	4,500	0.7%	1381	1.7%	0.224	2.7%	10,765	2.9%	12,360	2.8%		

Hispani: Organ (Anv Race) 25,611

Data Note: Insuinc is expressed in control dollars.

Prepared by Willmann & Associates, LLC (September 1, 2013)

Source: U.S. Centus Bursos - 1990, 2000, 2000-Centus of Population and Honoray & 2010 American Community Survey; \$1887 Sentents for 2015 and 2000.

5.9%