



# ST. JOHN THE BAPTIST PARISH HAZARD MITIGATION UPDATE - 2015



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# ST. JOHN THE BAPTIST PARISH HAZARD MITIGATION PLAN UPDATE

*Prepared for:*

**St. John the Baptist Parish**



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## ACKNOWLEDGMENTS

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Special thanks is directed to all of those who assisted in contributing feedback and expertise on this document, especially the St. John the Baptist Parish Office of Homeland Security and Emergency Management. These combined efforts have made this project possible. The Parish Steering Committee consists of the following individuals, who are credited in the creation of this document:

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## 1 Introduction

Hazard Mitigation is defined as sustained actions taken to reduce or eliminate long-term risk from hazards and their effects. Hazard Mitigation Planning is the process through which natural hazards that threaten communities are identified, likely impacts of those hazards are determined, mitigation goals are set, and appropriate strategies that would lessen the impacts are determined, prioritized, and implemented.

In that regard, this plan (a) documents the St. John the Baptist Parish Hazard Mitigation Plan Update (HMPU) process, (b) identifies natural hazards and risks within the parish, and (c) identifies the parish's hazard mitigation strategy to make St. John the Baptist Parish less vulnerable and more disaster resistant. It also includes mitigation project scoping to further identify scopes of work, estimated costs, and implementation timing requirements of proposed selected mitigation projects. Information in the plan will be used to help guide and coordinate mitigation and local policy decisions affecting future land use.

The St. John the Baptist Parish Hazard Mitigation Plan is a single jurisdictional plan that covers the unincorporated communities of LaPlace, Reserve, Garyville, and Edgard. Multi-Jurisdictional requirements are not required nor addressed in this plan update.

The Federal Emergency Management Agency (FEMA), now under the Department of Homeland Security, has made reducing losses from natural disasters one of its primary goals. The Hazard Mitigation Plan (HMP) and subsequent implementation of recommended projects, measures, and policies is the primary means to achieving these goals. Mitigation planning and project implementation has become even more significant in a post-Katrina and Rita environment in south Louisiana.

This Hazard Mitigation Plan is a comprehensive plan for disaster resiliency in St. John the Baptist Parish. The parish is subject to natural hazards that threaten life and health and have caused extensive property damage. To better understand these hazards and their impacts on people and property, and to identify ways to reduce those impacts, the parish's Office of Homeland Security and Emergency Preparedness (OHSEP) undertook this Natural Hazards Mitigation Plan. "Hazard mitigation" does not mean that all hazards are stopped or prevented. It does not suggest complete elimination of the damage or disruption caused by such incidents. Natural forces are powerful, and most natural hazards are well beyond our ability to control. Mitigation does not mean quick fixes. It is a long term approach to reduce hazard vulnerability. As defined by FEMA, hazard mitigation means "any sustained action taken to reduce or eliminate the long-term risk to life and property from a hazard event".

Every community faces different hazards, and every community has different resources and interests to bring to bear on its problems. Because there are many ways to deal with natural hazards and many agencies that can help, there is no one solution for managing or mitigating their effects. Planning is one of the best ways to correct these shortcomings and produce a program of activities that will best mitigate the impact of local hazards and meet other local needs. A well-prepared plan will ensure that all possible activities are reviewed and implemented so that the problem is addressed with the most appropriate and efficient solutions. It can also ensure that activities are coordinated with each other and with other goals and programs, preventing conflicts and reducing the costs of implementing each individual activity.

Under the Disaster Mitigation Act of 2000 (42 USC 5165), a mitigation plan is a requirement for Federal mitigation funds. Therefore, a mitigation plan will both guide the best use of mitigation funding and meet the

prerequisite for obtaining such funds from FEMA. FEMA also recognizes plans through its Community Rating System (CRS), a program that reduces flood insurance premiums in participating communities. This program is described in further detail in Section 3.

This plan identifies activities that can be undertaken by both the public and the private sectors to reduce safety hazards, health hazards, and property damage caused by natural hazards. It fulfills the Federal mitigation planning requirements, qualifies for CRS credit, and provides the parish and its communities with a blueprint for reducing the impacts of these natural hazards on people and property.

## Location, Demography, and Economy

### Location

St. John the Baptist Parish is located between the cities of Baton Rouge and New Orleans along the Mississippi River. Lake Maurepas and Manchac Pass form the watery northern border with Livingston and Tangipahoa Parishes. Lake Pontchartrain forms the eastern border with St. Charles Parish. Lac Des Allemands forms the southern border with Lafourche Parish, and to the west is St. James Parish. St. John the Baptist Parish is divided into two sections by the Mississippi River, with 70% of the land being east of the river and the balance on the west bank. St. John the Baptist Parish consists of an area of 219 square miles (140,104 acres) of land and 129 square miles (82,529 acres) of water, and is located in the terrace and Mississippi flood plain region of southeast Louisiana.



Figure 1-1: St. John the Baptist Parish

St. John the Baptist Parish's topography is relatively flat. In the southern portion of the parish, the land is ten to fifteen feet above sea level along the riverbanks, sloping gradually down to five feet away from the river. This sloping resulted from natural levees formed by the Mississippi River.

St. John the Baptist Parish is primarily rural. Land uses within the parish consist of industrial, commercial, and residential areas, agricultural land, woodlands, and wetlands. The majority of the industrial and commercial areas are located along the Mississippi River corridor. The residential areas are along the Mississippi River and in the northeast portion of the parish, near the intersection of I-10 and I-55. Agricultural land, woodlands, and wetlands comprise the rest of the parish's acreage.

Approximately 80% of the total land area of St. John the Baptist Parish is located within FEMA's 100-year floodplain. The majority of the floodplain is found between I-10 and the parish's northern boundary, as well as south of LA Highway 3127 to the parish boundary.

St. John the Baptist Parish is characterized by humid summers and mild winters. Average summer and winter temperatures are 83 degrees Fahrenheit (°F) and 53°F, respectively. The annual precipitation averages 54 to 58 inches.

### Population

The population of St. John the Baptist Parish is estimated at 43,745 (2014 estimate), with a population percent change from April 1, 2010 – July 1, 2014 of -4.80%.

*Table 1-1: St. John the Baptist Parish Population  
(Source: US Census)*

	2010 Census	2013 Census	(Current Yr) Estimate	Percent Change 2010-2013	Percent Change 2010–Current Year
Total Population	45,817	43,619	43,745	-4.80%	-4.80%
Population Density (Pop/Sq. Mi.)	215.5	—	—	—	—
Total Households	15,440	15,440	—	—	—

Table 1-2: St. John the Baptist Parish Business Patterns  
(Source: Censtats.census.gov)

Business Description	Number of Employees	Number of Establishments	Annual Payroll (\$1,000)
Agriculture, Forestry, Fishing and Hunting	0-19	1	1,000
Retail Trade	1,604	110	38,056
Manufacturing	3,028	23	267,706
Health Care and Social Assistance	1,218	70	46,497
Mining, Quarrying, and Oil and Gas Extraction	250-499	3	-
Utilities	20-99	4	1,000
Transportation and Warehousing	1,061	44	52,293
Construction	1,000-2,499	64	-
Administrative and Support and Waste Management and Remediation Services	929	45	31,525
Real Estate and Rental Leasing	164	32	7,287
Wholesale Trade	670	32	46,253
Other Services (Except Public Administration)	590	57	21,048
Accommodation and Food Services	1,193	77	14,617
Finance and Insurance	291	59	13,564
Professional, Scientific, and Technical Services	387	56	19,925
Information	98	9	4,935
Educational Services	261	12	8,488
Arts, Entertainment, and Recreation	190	13	2,574
Management of Companies and Enterprises	20-99	2	-

## Hazard Mitigation

To fully understand hazard mitigation efforts in St. John the Baptist Parish and throughout Louisiana, it is first crucial to understand how hazard mitigation relates to the broader concept of emergency management. In the early 1980s, the newly-created FEMA was charged with developing a structure for how the federal, state, and local governments would respond to disasters. FEMA developed the *four phases of emergency management*, an approach which can be applied to all disasters. The four phases are as follows:

- **Hazard Mitigation**—described by FEMA and the Disaster Mitigation Act of 2000 (DMA 2000) as “any sustained action taken to reduce or eliminate long-term risk to life and property from a hazard event.” The goal of mitigation is to save lives and reduce property damage. Besides significantly aiding in the obviously desirous goal of saving human lives, mitigation can reduce the enormous cost of disasters to property owners and all levels of government. In addition, mitigation can protect critical community facilities and minimize community disruption, helping communities return to usual daily living in the aftermath of disaster. Examples of mitigation involve a range of activities and actions including the following: land-use planning, adoption and enforcement of building codes, and construction projects (e.g., flood proofing homes through elevation, or acquisition or relocation away from floodplains).
- **Emergency Preparedness**—includes plans and preparations made to save lives and property, and to facilitate response operations in advance of a disaster event

- **Disaster Response**—includes actions taken to provide emergency assistance, save lives, minimize property damage, and speed recovery immediately following a disaster
- **Disaster Recovery**—includes actions taken to return to a normal or improved operating condition following a disaster

*Figure 1-2* illustrates the basic relationship between these phases of emergency management. While hazard mitigation may occur both before and after a disaster event, it is significantly more effective when implemented before an event occurs. This is one of the key elements of this plan and its overall strategy: reduce risk before disaster strikes in order to minimize the need for post-disaster response and recovery.

As *Figure 1-2* demonstrates, mitigation relies on updating in the wake of disaster. This can give the appearance that mitigation is only reactive rather than proactive. In reality, however, post-disaster revision is a vital component of improving mitigation. Each hazardous event affords an opportunity to reduce the consequences of future occurrences.

Unfortunately, this cycle can be painful for a community. For instance, the risks of disasters that could create catastrophic incidents in Louisiana were thought to be relatively well-understood prior to 2005. However, the impact of the 2005 hurricane season on the Gulf Coast region of the United States prompted a new level of planning and engagement related to disaster response, recovery, and hazard mitigation. Hurricanes Katrina and Rita hit three weeks apart, and together caused astonishing damage to human life and to property. The two storms highlighted a hurricane season that spawned 28 total storms—an amount unparalleled in American history. The 2005 hurricane season confirmed Louisiana’s extreme exposure to natural disasters, as well as both the positive effects and the concerns resulting from engineered flood-protection solutions.



*Figure 1-2: The four phases of emergency management and their relation to future hazard mitigation*  
(Source: Louisiana State Hazard Mitigation Plan 2014)

The catastrophic events of 2005 had profound impacts on emergency management and hazard mitigation throughout Louisiana. As detailed later in this document, significant funding has been made available to the state of Louisiana and its parishes for the purpose of hazard mitigation planning. The storms also raised awareness of the importance of hazard mitigation among decision-makers and the general population, which has been particularly important since natural hazards will likely be increasing in frequency, magnitude, and impact in the coming years due to climate change.

### General Strategy

During the last update to the Louisiana State Hazard Mitigation Plan, the State Hazard Mitigation Team (SHMT) began a long-term effort to better integrate key components of all plans with hazard mitigation implications in Louisiana to ensure that the programs, policies, recommendations, and implementation

strategies are internally consistent. As each of these documents has been adopted by various agencies within the state, the SHMT has worked to incorporate this information into the decision process.

Part of the ongoing integration process is that the Governor's Office of Homeland Security and Emergency Preparedness (GOHSEP) encourages the parishes and the local communities with independent hazard mitigation plans to utilize the same plan format and methodologies as the State Hazard Mitigation Plan in order to create continuity of information from local to state mitigation plans and programs.

The 2015 St. John the Baptist Parish Hazard Mitigation Plan maintains much of the information from the 2006 and 2010 plan versions, but it now reflects the order and methodologies of the 2014 Louisiana State Hazard Mitigation Plan. The sections of the 2010 St. John the Baptist HMP were as follows:

- Section One Introduction
- Section Two Parish Profile
- Section Three Planning Process
- Section Four Risk Assessment
- Section Five Mitigation Strategy
- Section Six Plan Maintenance Procedures
- Section Seven Action Plan
- Tables
- Figures
- Appendices

This plan update now also coheres with the Plain Writing Act of 2010, which requires federal agencies to use clear communication that is accessible, consistent, understandable, and useful to the public. While the state of Louisiana and its political subdivisions are not required to meet such standards, the Act aligns with best practices in hazard mitigation. Since successful hazard mitigation relies on full implementation and cooperation at all levels of government and community, a successful hazard mitigation plan must also be easily used at all of these levels. Nevertheless, the St. John the Baptist Parish Hazard Mitigation Steering Committee was not ignorant or dismissive of the successful analysis and mitigation planning executed in previous plan updates. This plan update remains coherent with those documents, retaining language and content when needed, deleting it when appropriate, and augmenting it when constructive.

### 2015 Plan Update

This 2015 plan update proceeds with the previous goals of the St. John the Baptist Parish Hazard Mitigation Plan. The current goals are as follows:

1. Identify and pursue preventative measures that will reduce future damages from hazards
2. Enhance public awareness and understanding of disaster preparedness
3. Reduce repetitive flood losses in the parish
4. Facilitate sound development and rebuilding in the parish so as to reduce or eliminate the potential impacts of hazards

This plan update makes a number of textual changes throughout, with the most obvious changes being structural and data related. First, the Spatial Hazard Events and Losses Database for the United States (SHELDUS) was used as a data source for hazard identification because it incorporates all storm event data from the National Climatic Data Center (NCDC) Storm Events Database used in previous plans, as well as storm event data from other sources including the National Oceanic and Atmospheric Administration (NOAA) Storm Prediction Center, National Hurricane Center, and U.S. Fire Administration. Furthermore, all of the

sections were updated to reflect the most current information and the most current vision of the plan update. Second, instead of ten separate sections for numerous tables, maps, and appendices, the Hazard Mitigation Plan Update has four sections and five appendices. The most significant changes are the newly developed hazard profiles and risk assessments, as well as the removal of much repetition between sections from the previous plan updates. The 2015 plan update is organized generally as follows:

- Section One Introduction
- Section Two Hazard Identification and Parish-Wide Risk Assessment
- Section Three Capability Assessment
- Section Four Mitigation Strategies
- Appendix A Planning Process
- Appendix B Plan Maintenance
- Appendix C Essential Facilities
- Appendix D Plan Adoption
- Appendix E State Required Worksheets

*Table 1-3: 2015 Plan Update Crosswalk*

2010 Plan	Revised Plan (2015)
Section 1: Introduction	Section 1: Introduction
Section 2: Parish Profile	Section 1: Introduction
Section 3: Planning Process	Appendix A: Planning Process
Section 4: Risk Assessment	Section 2: Hazard Identification and Parish-wide Risk Assessment; Appendix C: Essential Facilities
Section 5: Mitigation Strategy	Section 4: Mitigation Strategy
Section 6: Plan Maintenance Procedures	Appendix B: Plan Maintenance
Section 7: Action Plan	Section 4: Mitigation Strategy
List of Tables/Figures; Appendices	Section 3: Capability Assessment, Appendix D: Plan Adoption, Appendix E: State Required Worksheets

Despite numerous changes in this plan update, the plan remains consistent in its emphasis on the few types of hazards that pose the most risk to loss of life, injury, and property in St. John the Baptist Parish and its communities. The extent of this risk is dictated primarily by its geographic location. Most significantly, St. John the Baptist Parish remains at high risk of water inundation from various sources, including flooding, failure of dams/levees and forced drainage systems, tornadoes, and tropical cyclone activity. All of the parish is also at high risk of damages from high winds and wind-borne debris, both caused by various meteorological phenomena. Other hazards threaten the parish and/or its communities, although not to such great degrees and not in such widespread ways. In all cases, the relative social vulnerability of areas threatened and affected plays a significant role in how governmental agencies and their partners (local, parish, state, and federal) prepare for and respond to disasters.

Mitigation efforts related to particular hazards are highly individualized by jurisdiction. While St. John the Baptist Parish has a single jurisdiction plan, they do have multiple communities that are partners in mitigation strategy efforts. Flexibility in response and planning is essential. The most important step forward to improve hazard management capability is to improve coordination and information sharing between the various levels of government regarding hazards.

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## 2 Hazard Identification and Parish-Wide Risk Assessment

This section assesses the various hazards that St. John the Baptist Parish faces in order to identify a strategy for mitigation. Having identified the categories of hazards, emergencies, disasters, and catastrophes, this section details the major climatological and natural/human-influenced hazards by (1) defining them, (2) explaining how they are measured, (3) describing their geographic extent, (4) surveying their previous occurrences, and (5) evaluating their future likelihood of occurrences.

The table below provides an overview of the hazards that had been previously profiled in the St. John the Baptist Parish Hazard Mitigation Plan (HMP) published in 2010, as well as the hazards that were identified in the state's 2014 Hazard Mitigation Plan that were considered to be of high or medium risk for the parish by the state. Those hazards identified as high or medium risk by the state, or previously identified as a risk by the parish, have been determined to provide a risk to the parish and will be profiled in this section.

*Table 2-1: Hazard Profile Summary*

Hazard	Profiled in Last Plan	Considered Medium or High Risk in the state's HM Plan	Profiled in the 2015 Update
Coastal Land Loss			
Drought	X		X
Earthquakes			
Expansive Soils	X		X
Fog			
Flooding	X	X	X
Extreme Heat	X		Discounted
Sinkholes			
Subsidence			
Termites			
Thunderstorms (Hail, Lightning & Wind)	X	X	X
Tornadoes	X	X	X
Tropical Cyclones	X	X	X
Wildfires			
Winter Storms	X		X

### Prevalent Hazards to the Community

While many of the hazards identified in *Table 2-1* occur in the parish, their occurrence did not warrant further study by the Planning Committee. The determination was made to focus attention and resources on the most prevalent hazards, which include the hazards previously profiled, along with sinkholes. The following hazards have been selected to be included in this risk assessment:

- a) Drought
- b) Expansive Soils
- c) Extreme Heat
- d) Flooding (backwater, storm surge, riverine, localized stormwater event)
- e) Thunderstorms (hail, lightning, and wind)
- f) Tornadoes
- g) Tropical Cyclones (flooding and high winds)
- h) Winter Storms

For analysis purposes, the impact of the critical and prevalent hazards is summarized as follows:

- Flooding from rivers and waterways, rain storms, tropical storms, and hurricanes in the following forms:
  - a) Riverine
  - b) Stormwater
  - c) Surge
  - d) Backwater flooding (as the result of river flooding and surge)
- High wind damage most commonly resulting from hurricanes, thunderstorms, and tornadoes

The potentially destructive power of a tropical cyclone was determined to be the most prevalent and the most frequent hazard to the parish. Twelve of the sixteen Presidential Declarations that St. John the Baptist Parish has received have resulted from tropical cyclones, which validates this as the most significant hazard to the parish. Therefore, the potential threat of hurricanes will serve as a primary focus during the mitigation planning process. Hurricanes present risks for the potential for flooding, primarily resulting from storm surge and high wind speeds. Storm surge is considered to be the hazard with the most potential to cause destruction and will be included in the risk assessment as additional types of flooding. Since 1972, St. John the Baptist Parish has received four Presidential Declarations as a result of flooding.

Hurricanes, tropical storms, and heavy storms are fairly common occurrences, and resultant wind damage from these events is of utmost concern. Damage from high winds can include roof damage, destruction of homes and commercial buildings, downed trees and power lines, and damage and disruption to services caused by heavy airborne debris. A wind map for St. John the Baptist is included in the hurricane risk assessment.

### Previous Occurrences

*Table 2-2* summarizes federal disaster declarations for St. John the Baptist Parish since 1972. Information includes disaster declaration numbers, dates, and types of disasters.

*Table 2-2: St. John the Baptist Parish Major Disaster Declarations*

Disaster Declaration Number	Date	Type of Disaster
374	4/27/1973	Severe Storm, Flood
556	5/9/1978	Severe Storm, Flood
752	11/1/1985	Tropical Cyclone – Hurricane Juan
956	8/26/1992	Tropical Cyclone – Hurricane Andrew
1049	5/10/1995	Severe Storm, Flood
1246	9/23/1998	Tropical Cyclone – TS Frances and Hurricane Georges
1380	6/11/2001	Tropical Cyclone – Tropical Storm Allison
1435	9/27/2002	Tropical Cyclone – Tropical Storm Isidore
1437	10/3/2002	Tropical Cyclone – Hurricane Lili
1548	10/18/2004	Tropical Cyclone – Hurricane Ivan
1603	8/29/2005	Tropical Cyclone – Hurricane Katrina
1607	9/24/2005	Tropical Cyclone – Hurricane Rita
1786	9/2/2008	Tropical Cyclone – Hurricane Gustav
1792	9/13/2008	Tropical Cyclone – Hurricane Ike
3322	8/18/2011	Severe Storm, Flood
4080	8/27/2012	Tropical Cyclone – Hurricane Isaac

### Probability of Future Hazard Events

The probability of a hazard event occurring in St. John the Baptist Parish is estimated in the table on the following page. The percent chance of an event happening during any given year was calculated by posting past events, then dividing by the time period. Unless otherwise indicated, the time period used to assess probability followed the method used in the state of Louisiana's most current Hazard Mitigation Plan. The primary source for historical data used throughout the plan is the Spatial Hazards Events and Losses Database (SHELDUS), which provides historical hazard data from 1960 to 2014. In staying consistent with the State Hazard Mitigation Plan, the SHELDUS database was evaluated for the last twenty-five years (1989 – 2014) in order to determine future probability of a hazard occurrence. While the twenty-five year record used by the state was adopted for the purpose of determining the overall probability, in order to assist with determining estimated losses, unless otherwise stated, the full fifty-four year record was used when HAZUS-MH was not available to determine losses. This full record was used to provide a more extensive determination of losses. All assessed damages were adjusted for inflation in order to reflect the equivalent amount of damages with the value of the U.S. dollar today.

The following table shows the annual probability for each hazard occurring across the parish:

*Table 2-3: Probability of Future Hazard Reoccurrence*

St. John the Baptist Parish	
Hazard	Probability
Drought	8%
Expansive Soils	100%
Flooding	36%
Thunderstorm - Hail	4%
Thunderstorm - Lightning	4%
Thunderstorm - Winds	96%
Tornadoes	24%
Tropical Cyclones	100%
Winter Storms	12%

As shown in *Table 2-3*, tropical cyclones and expansive soils have the highest chance of occurrence in the parish (100%), followed by thunderstorm winds (96%) and floods (36%). Tornadoes have a 24% annual chance of occurrence within St. John the Baptist Parish, and winter storms have a 12% annual chance of occurrence. The annual chance of occurrence of a drought is calculated at 8%, while both hail and lightning events have a 4% annual chance of occurrence. Extreme heat has been discounted as a result of no events occurring that have caused property or crop damage and injuries or fatalities.

### Inventory of Assets for the Entire Parish

As part of the Risk Assessment, the planning team identified essential facilities throughout the parish. Several methods were used to assist in identifying all essential facilities, including field data collected by the Louisiana Governor's Office of Homeland Security and Emergency Preparedness (GOHSEP) on critical infrastructure from a previous hazard mitigation project.

Within the entire planning area, there is an estimated value of \$4,280,777,000 in structures throughout the parish. The table on the following page provides the total estimated value for each structure by occupancy.

*Table 2-4: Estimated Total of Potential Losses throughout St. John the Baptist Parish*

<b>Occupancy</b>	<b>St. John the Baptist Parish</b>
Agricultural	\$5,338,000
Commercial	\$472,112,000
Government	\$27,086,000
Industrial	\$105,143,000
Religion	\$57,436,000
Residential	\$3,557,675,000
Education	\$55,987,000
Total	\$4,280,777,000

Essential Facilities of the Parish

The following pages contain maps which show the locations and names of the essential facilities within the parish.

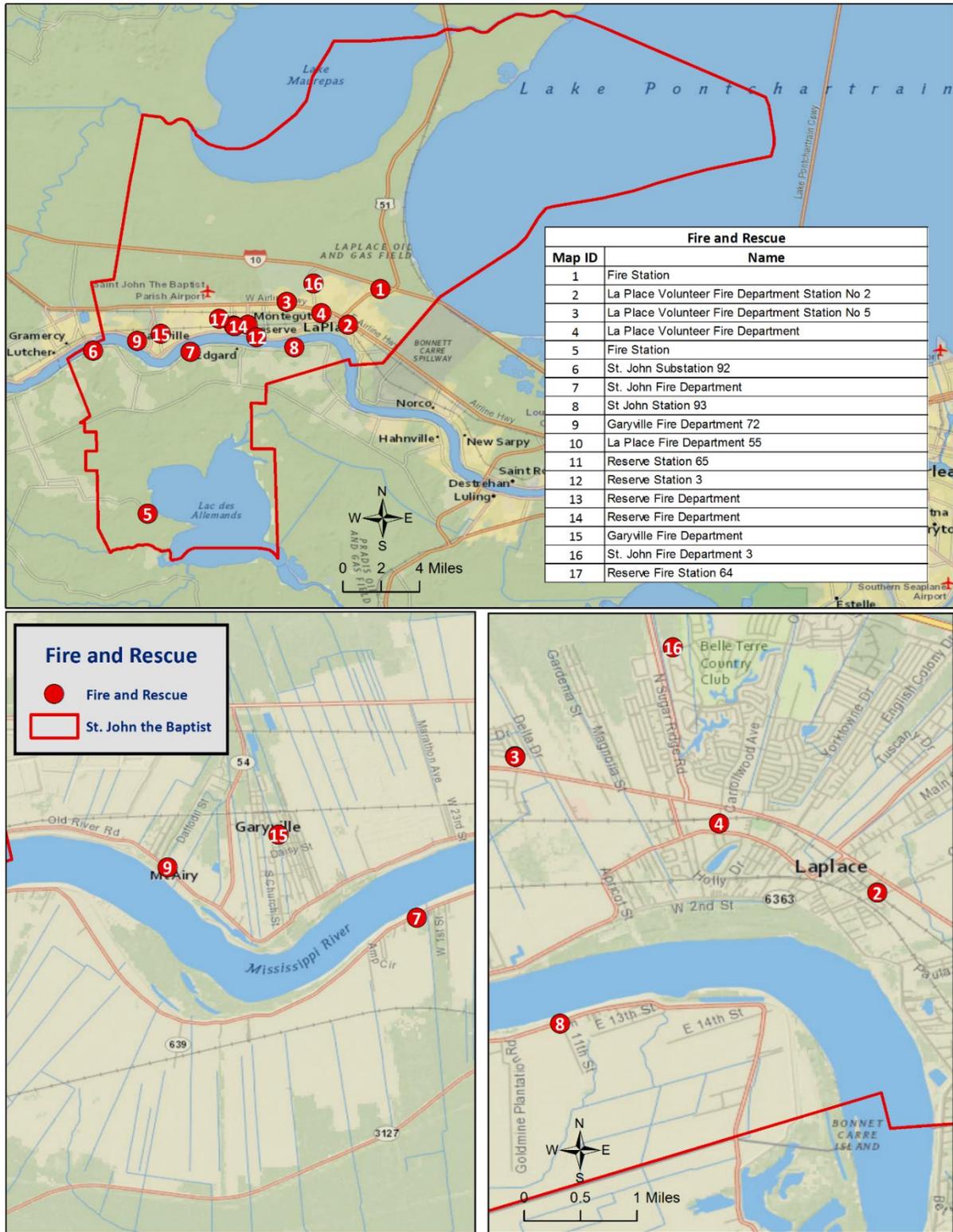


Figure 2-1: Fire Stations throughout St. John the Baptist Parish

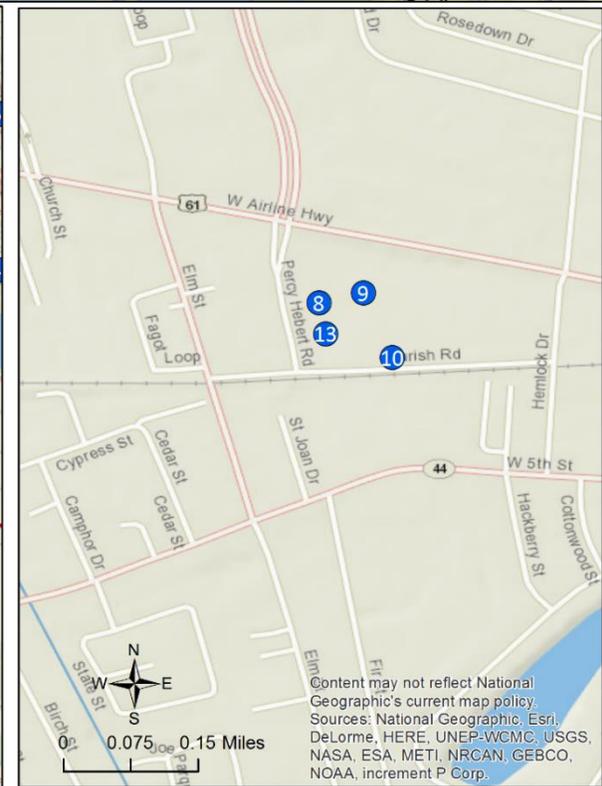
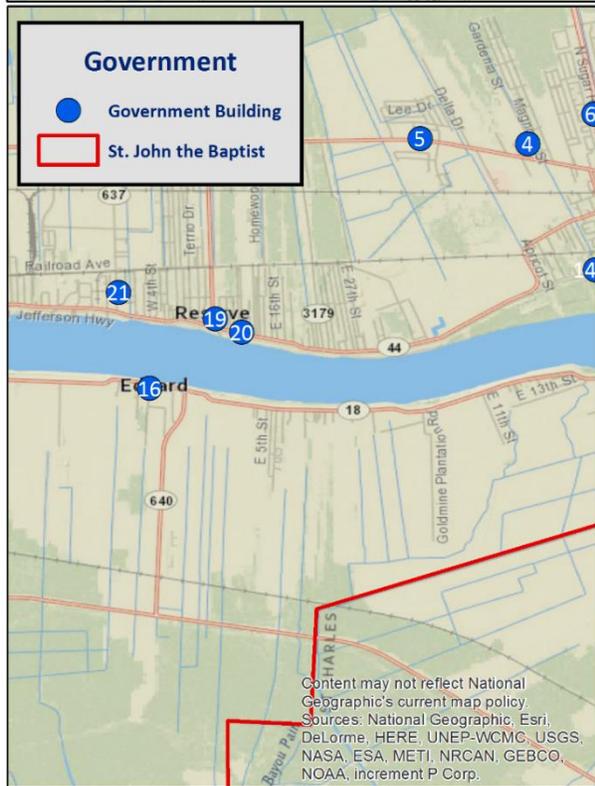
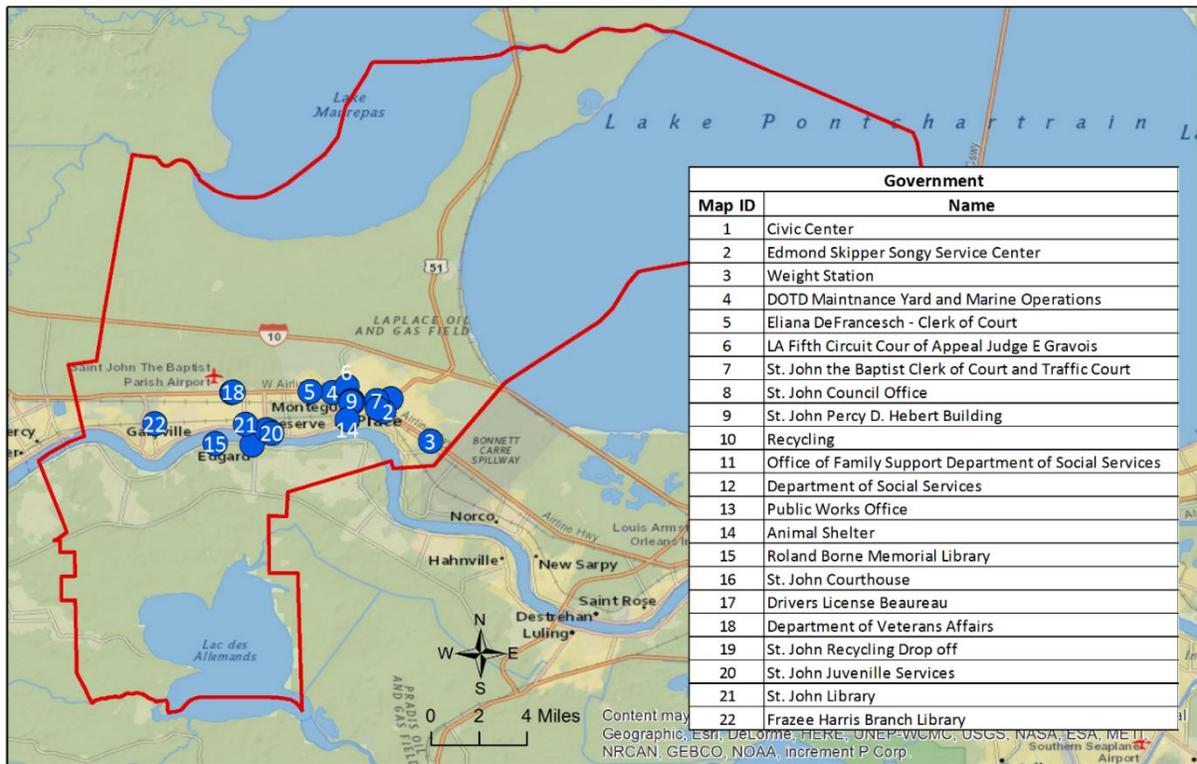


Figure 2-2: Government Buildings throughout St. John the Baptist Parish

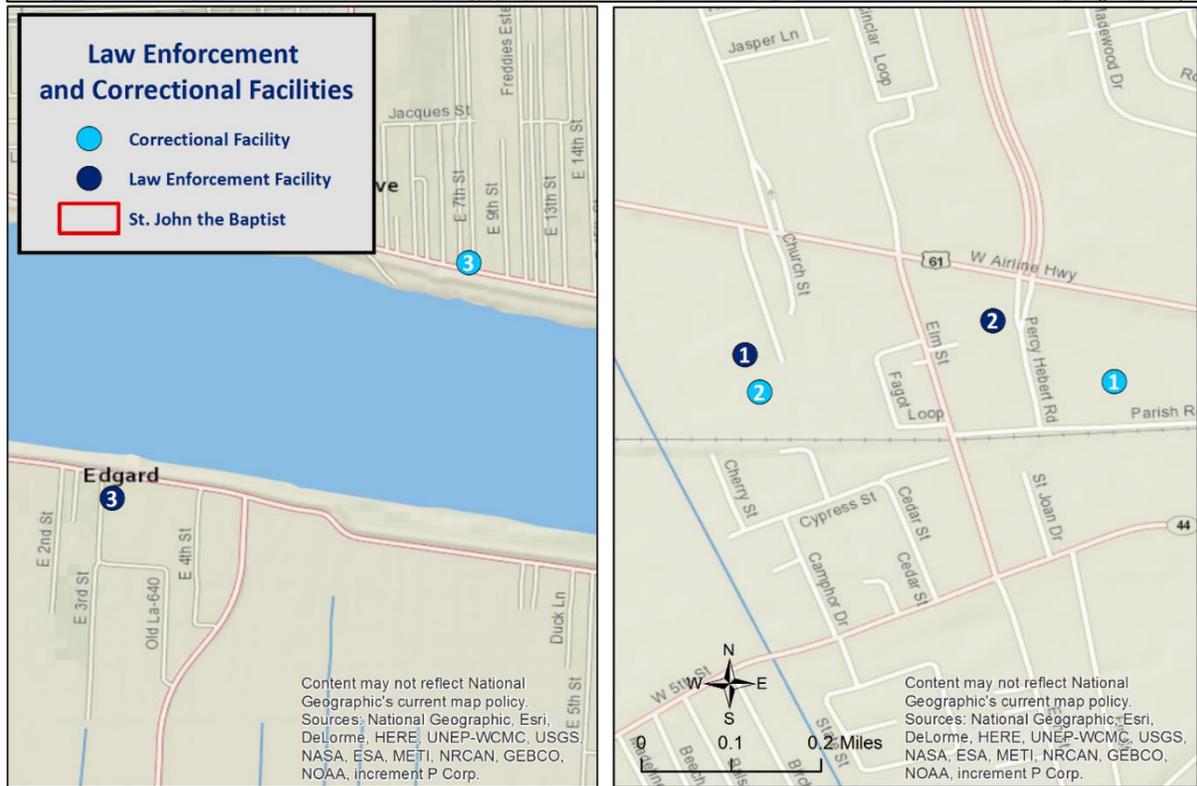
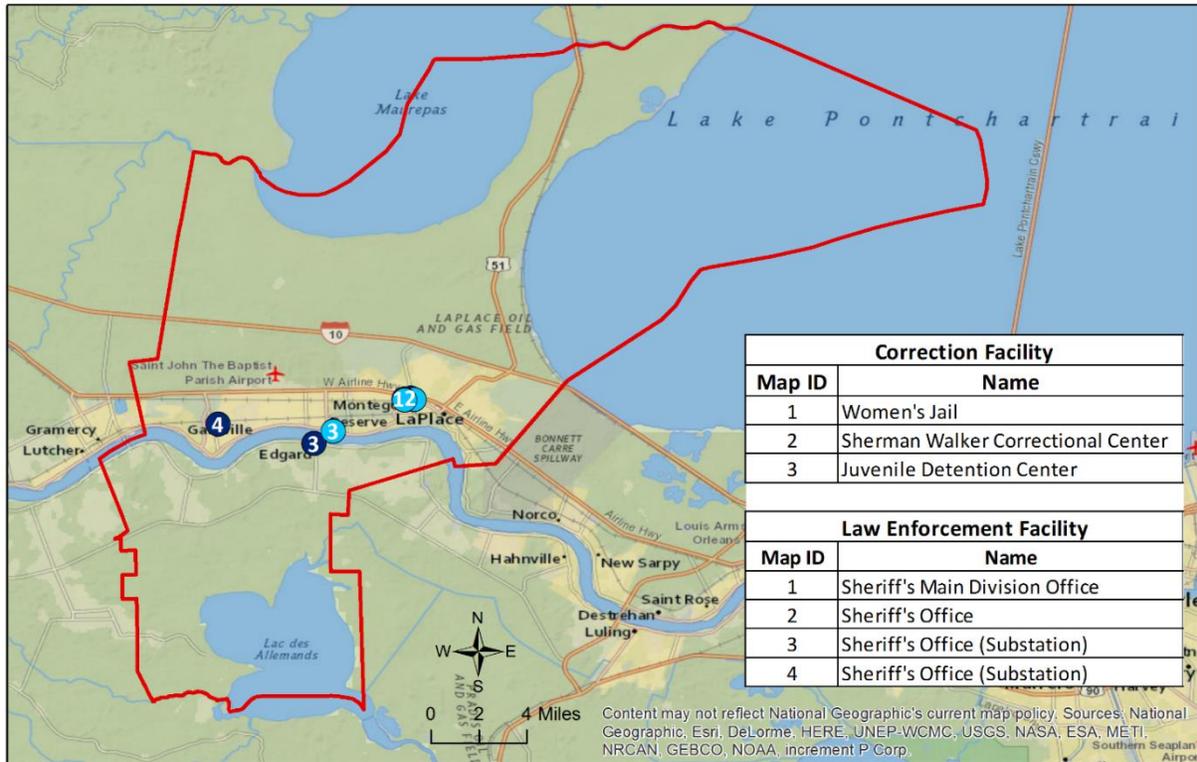


Figure 2-3: Law Enforcement Facilities in St. John the Baptist Parish

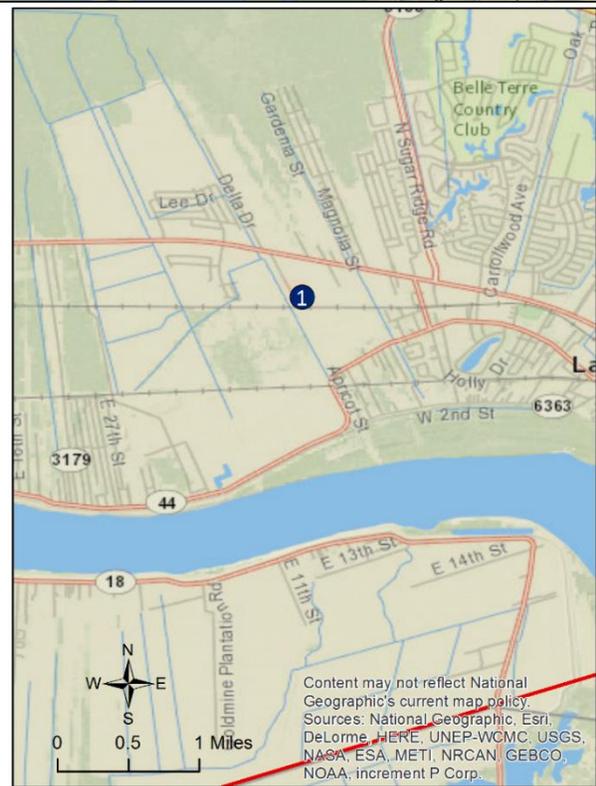
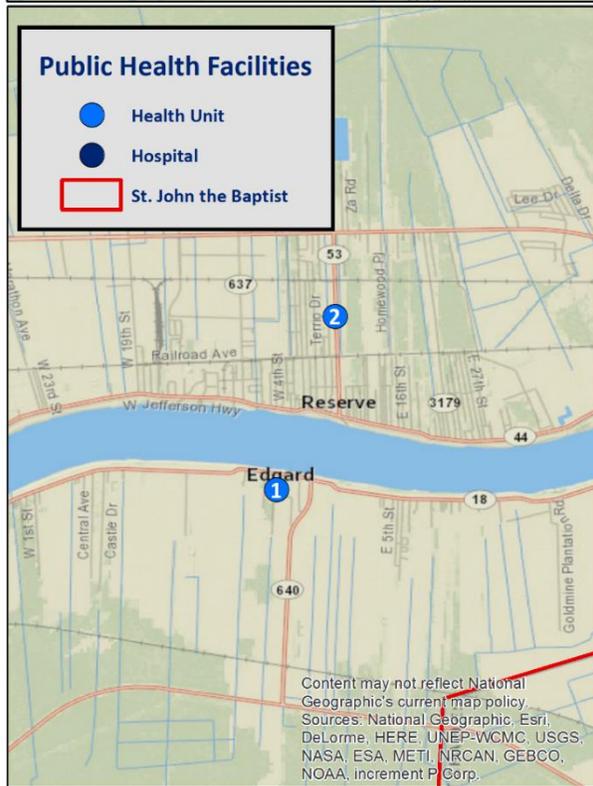
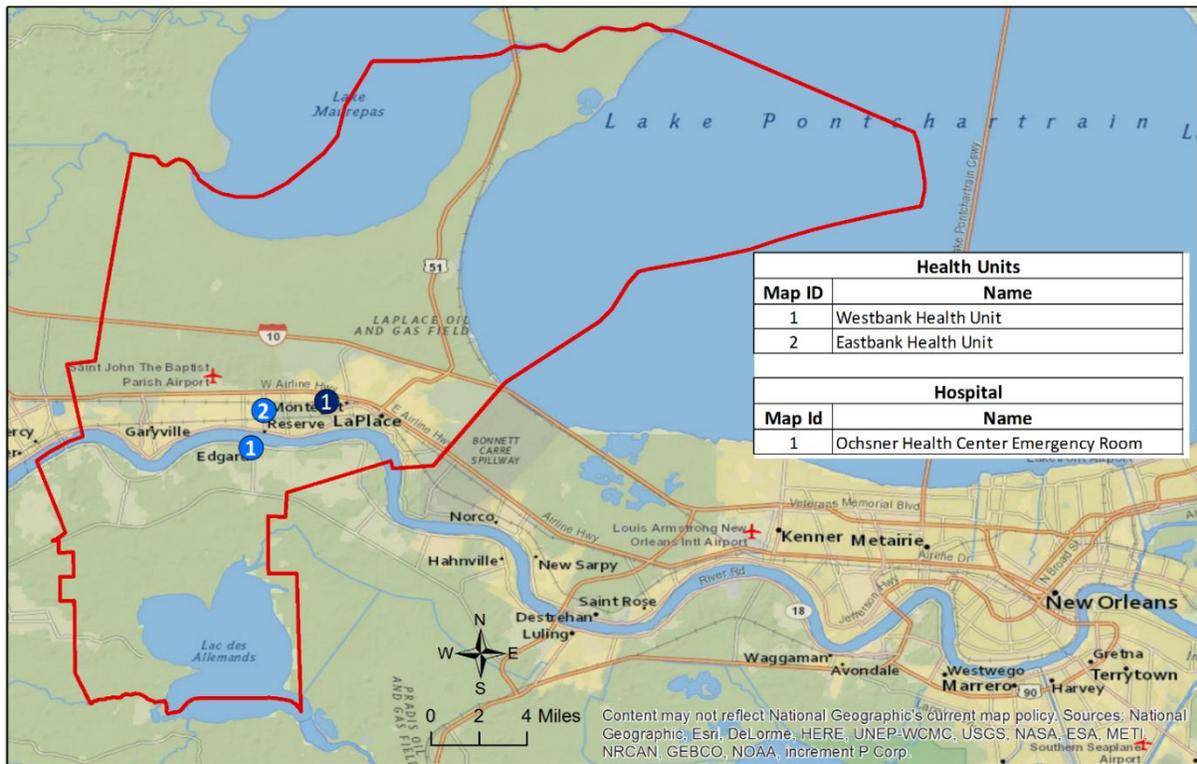


Figure 2-4: Public Health Facilities in St. John the Baptist Parish

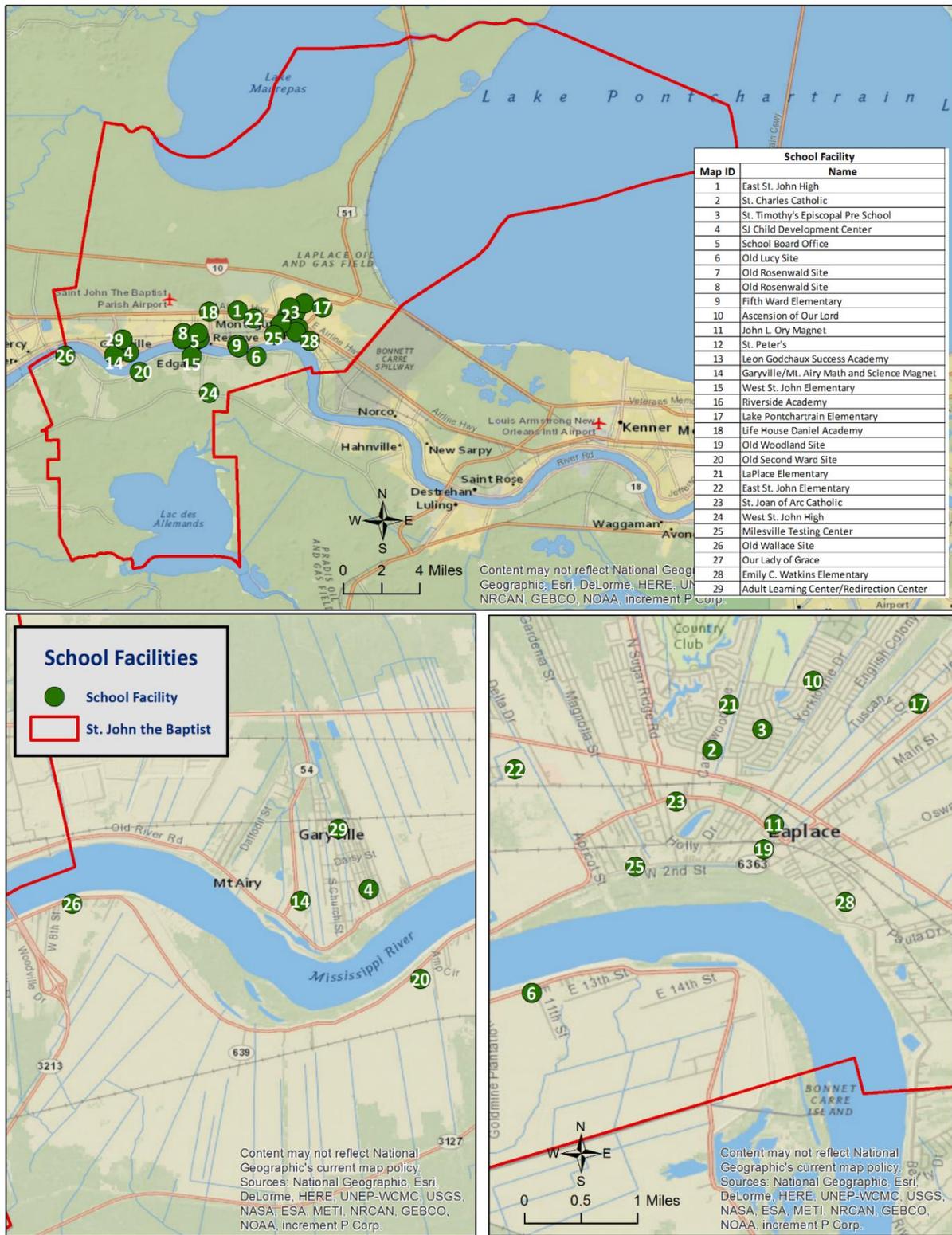


Figure 2-5: Educational Facilities in St. John the Baptist Parish

### Future Development Trends

St. John the Baptist Parish experienced a slight growth in population and housing units from the years 2000 to 2010. Population grew from 43,044 to 45,924 at an annual growth rate of 0.7%. Annual housing growth rates during this time period were slightly higher at 1.3%, and housing units increased from 15,532 to 17,510. Both population and housing rates began to decline in 2010, and by 2013, the population had shrunk from 45,924 to 45,139, while housing units decreased from 17,510 to 17,495. The future population and number of buildings can be estimated using U.S. Census Bureau housing and population data. The tables below show population and housing unit estimates from 2000 to 2013.

*Table 2-5: Population Growth Rate for St. John the Baptist Parish*

Total Population	St. John the Baptist Parish
1-Apr-00	43,044
1-Apr-10	45,924
1-Jul-13	45,139
Population Growth between 2000 – 2010	6.7%
Average Annual Growth Rate between 2000 – 2010	0.7%
Population Growth between 2010 – 2013	-1.7%
Average Annual Growth Rate between 2010 – 2013	-0.57%

*Table 2-6: Housing Growth Rate for St. John the Baptist Parish*

Total Housing Units	St. John the Baptist Parish
1-Apr-00	15,532
1-Apr-10	17,510
1-Jul-13	17,495
Housing Growth between 2000 – 2010	12.7%
Average Annual Growth Rate between 2000 – 2010	1.3%
Housing Growth between 2010 – 2013	-0.1%
Average Annual Growth Rate between 2010 – 2013	0.0%

As shown in *Table 2-5* and *Table 2-6*, St. John the Baptist Parish population and housing grew slightly from the years 2000 to 2010, but have been declining from 2010 to the present.

### Future Hazard Impacts

Hazard impacts were estimated for five years and ten years in the future (2019 and 2024). Yearly population and housing growth rates were applied to parish inventory assets for composite flood and tropical cyclones. St. John the Baptist Parish has experienced a decrease in population since the year 2010. Based on this population decrease, further infrastructure growth within St. John the Baptist Parish is not expected. A summary of estimated future impacts is shown in the table below. Dollar values are expressed in future costs and assume an annual rate of inflation of 1.02%.

*Table 2-7: Estimated Future Impacts, 2019-2024  
(Source: Hazus, US Census Bureau)*

Hazard / Impact	Total in Parish (2014)	Hazard Area (2014)	Hazard Area (2019)	Hazard Area (2024)
<b>Flood Damage</b>				
Structures	17,495	5,262	5,262	5,262
Value of Structures	\$4,324,440,925	\$1,300,609,225	\$1,368,307,322	\$1,454,212,375
# of People	45,139	13,576	13,576	13,576
<b>Tropical Cyclone</b>				
Structures	17,495	17,495	17,495	17,495
Value of Structures	\$4,324,440,925	\$4,324,440,925	\$4,549,532,687	\$4,835,161,390
# of People	45,139	45,139	45,139	45,139

### Land Use

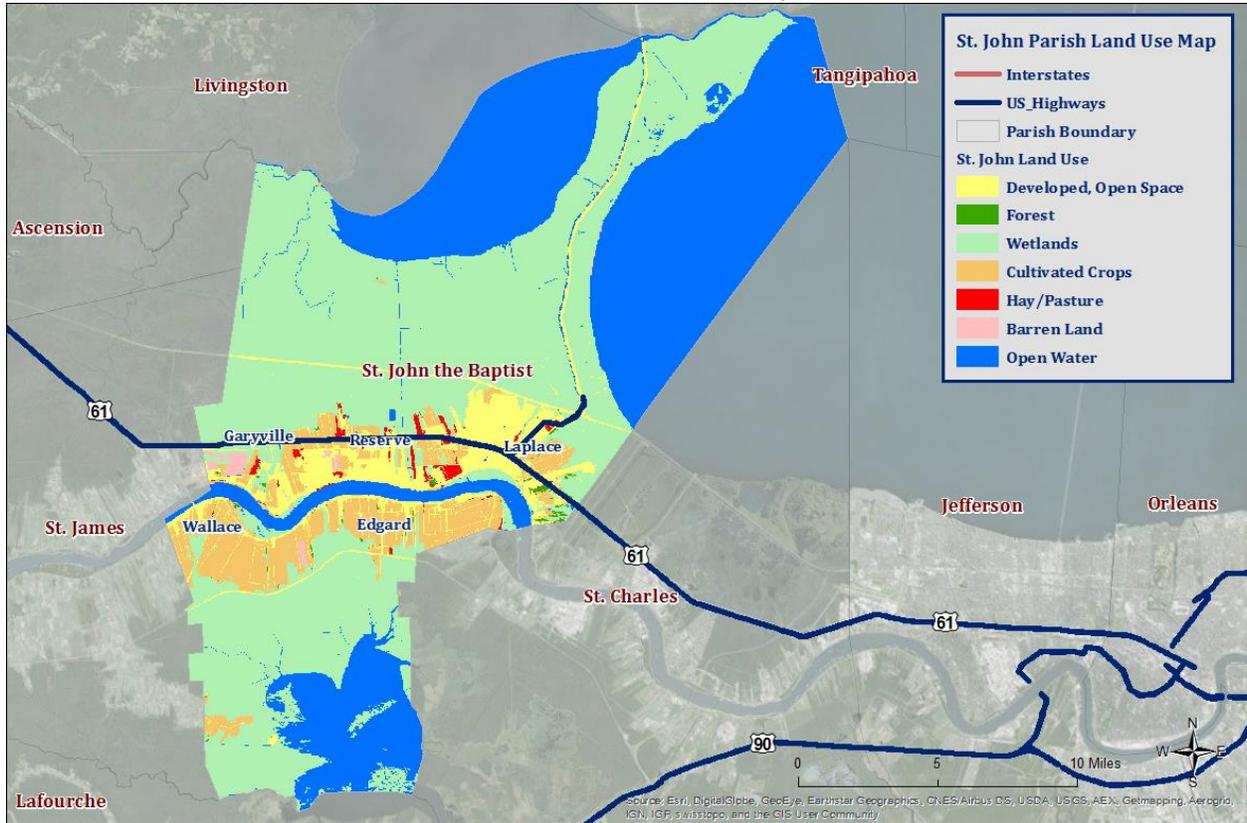
The St. John the Baptist Parish Land Use table is provided below. Residential, commercial, and industrial areas account for only 8% of the parish's land use. Wetlands at 105,893 acres is by far the largest category, accounting for 47% of parish land. The parish also consists of water areas (37%) and agricultural land (8%).

*Table 2-8: St. John the Baptist Parish Land Use  
(Source: USGS Land Use Map)*

Land Use	Acres	Percentage
Agricultural Land, Cropland, and Pasture	17,067	8%
Wetlands	105,893	47%
Forest Land (not including forested wetlands)	454	0%
Urban/Development	16,993	8%
Water	82,079	37%

The parish's patterns of land use distribution are clearly defined or influenced by the geography of the parish, most notably the Mississippi River and the marshes and swamps to the north and south. All of the major urban development is located on the eastern bank between Interstate 10 and the Mississippi River, while on the western bank, development is concentrated between the river and Louisiana Highway 3127. Many of the major transportation corridors generally flow along and close to the river, since this is traditionally the "high ground" of the parish.

Figure 2-6: St. John the Baptist Parish Land Use Map  
 (Source: USGS Land Use Map)



## Hazard Identification

### Drought

A drought is a deficiency in water availability over an extended period of time, caused by precipitation totals and soil water storages that do not satisfy the environmental demand for water, either by evaporation or transpiration through plant leaves. It is important to note that the lack of precipitation alone does not constitute drought; the season during which the precipitation is lacking has a major impact on whether drought occurs. For example, a week of no precipitation in July, when the solar energy to evaporate water and vegetation's need for water to carry on photosynthesis are both high, may trigger a drought, while a week of no precipitation in January may not initiate a drought.

Drought is a unique and insidious hazard. Unlike other natural hazards, no specific threshold of "dryness" exists for declaring a drought. In addition, the definition of drought depends on stakeholder needs. For instance, the onset (and demise) of agricultural drought is quick, as crops need water every few days; once they get rainfall, they improve. However, hydrologic drought sets in (and is alleviated) only over longer time periods. A few dry days will not drain a reservoir, but a few rain showers cannot replenish it either. Moreover, different geographical regions define drought differently based on the deviation from local, normal precipitation. Drought can occur anywhere, triggered by changes in the local-to-regional-scale atmospheric circulation over an area, or by broader-scale circulation variations such as the expansion of semi-permanent oceanic high-pressure systems or the stalling of an upper-level atmospheric ridge in place over a region. The severity of a drought depends upon the degree and duration of moisture deficiency, as well as the size of the affected area. Periods of drought tend to be associated with other hazards, such as wildfires and/or heat waves.

Drought is a slow onset event, causing less direct—but tremendous indirect—damage. Depletion of aquifers, livestock and wildlife mortality rates, and crop loss are examples of direct impacts. Since the groundwater found in aquifers is the source of about 38% of all county and city water supplied to households (and comprises 97% of the water for all rural populations that are not already supplied by cities and counties), droughts can potentially have direct, disastrous effects on human populations. The indirect consequences of drought, such as unemployment, reduced tax revenues, increased food prices, reduced outdoor recreation opportunities, higher energy costs as water levels in reservoirs decrease and consumption increases, and water rationing, are not often fully known. This complex web of impacts causes drought to affect people and economies well beyond the area physically experiencing the drought.

This particular hazard is often measured using the Palmer Drought Severity Index (PDSI, also known operationally as the Palmer Drought Index). The PDSI, first developed by Wayne Palmer in a 1965 paper for the U.S. Weather Bureau, measures drought through recent precipitation and temperature data with regard to a basic supply-and-demand model of soil moisture. It is most effective in long-term calculations. Three other indices used to measure drought are the Palmer Hydrologic Drought Index (PHDI), the Crop Moisture Index (CMI), which is derived from the PDSI, and the Keetch-Byram Drought Index (KBDI), created by John Keetch and George Byram in 1968 for the U.S. Forest Service. The KBDI is used mainly for predicting the likelihood of wildfire outbreaks. As a compromise, the PDSI is used most often for droughts since it is a medium-response drought indicator. The objective of the PDSI is to provide measurements of moisture conditions that are standardized so that comparisons using the index can be made between locations and between months. *Table 2-9* displays the range and Palmer classifications of the PDSI index. *Figure 2-7* displays the current drought monitor for the State of Louisiana and its parishes.

*Table 2-9: Palmer Drought Severity Index Classification and Range*

Range	Palmer Classifications
4.0 or more	Extremely Wet
3.0 to 3.9	Very Wet
2.0 to 2.9	Moderately Wet
1.0 to 1.99	Slightly Wet
0.5 to 0.99	Incipient Wet Spell
0.49 to -0.49	Near Normal
-0.5 to -0.99	Incipient Dry Spell
-1.0 to -1.99	Mild Drought
-2.0 to -2.99	Moderate Drought
-3.0 to -3.99	Severe Drought
-4.0 or less	Extreme Drought

The PDSI best measures the duration and intensity of drought-inducing circulation patterns at a somewhat long-term time scale, although not as long term as the PHDI. Long-term drought is cumulative, so the intensity of drought during the current month is dependent on the current weather patterns in addition to the effects of cumulative patterns of previous months or years. Although weather patterns can change almost overnight from a long-term drought pattern to a long-term wet pattern, as a medium-response indicator, the PDSI responds relatively rapidly. Data compiled by the National Drought Mitigation Center indicates normal conditions exist in St. John the Baptist Parish at the time this plan went to publication (*Figure 2-7*).

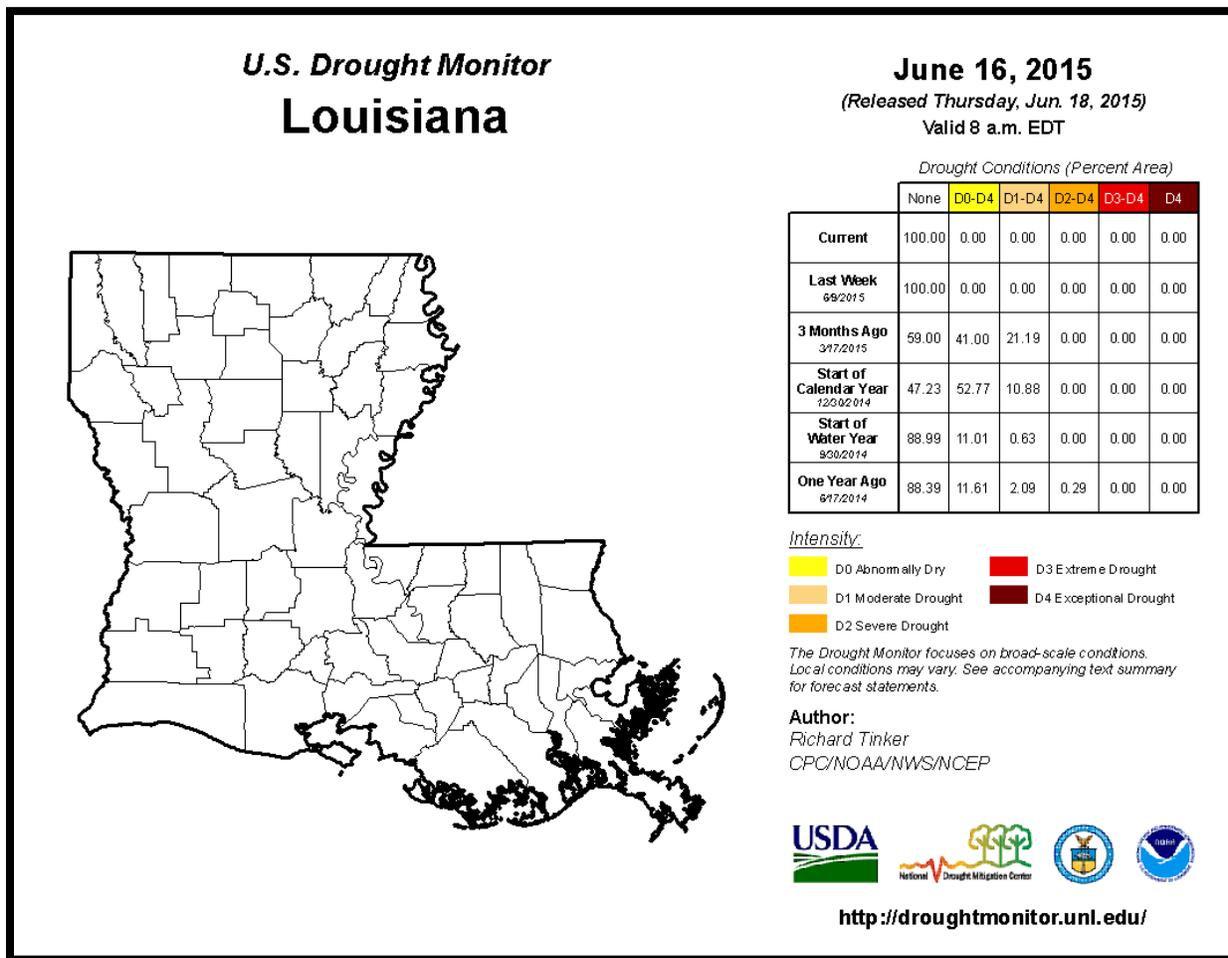


Figure 2-7: United States Drought Monitor for the State of Louisiana and its Parishes (Source: The National Drought Mitigation Center)

*Location*

Drought typically impacts a region and not one specific parish. While the entire parish can experience drought, the major impact of a drought event in St. John the Baptist Parish is on the agricultural community.

*Previous Occurrences / Extents*

The SHELUDS database reports a total of two drought events occurring within the boundaries of St. John the Baptist Parish from the years of 1989 to 2014. *Table 2-10* identifies the date of occurrence, estimated crop damage, and severity of the events that have occurred in St. John the Baptist Parish. Based on previous occurrences and in accordance with the Palmer Classification, the worst case scenario for drought in St. John the Baptist Parish would be a severe drought.

*Table 2-10: Drought Events with Crop Damage Totals for St. John the Baptist Parish  
(Source: SHEL DUS)*

Date	Crop Damage	Palmer Classification
August 1998	\$5,034,626	Moderate Drought
December 2000	\$6,072,695	Severe Drought

#### *Frequency / Probability*

Based on previous occurrences of two drought events in 25 years, the probability of drought occurrence in the St. John the Baptist Parish in any given year is 8%.

#### *Estimated Potential Losses*

According to the SHEL DUS database, there have been two drought events that have caused some level of crop damage. The total agricultural damage from these events is \$11,107,321, with an average cost of \$5,553,660 per drought event. When annualizing the total cost over the 25-year record, total annual losses based on drought is estimated to be \$444,293. *Table 2-11* presents an analysis of agricultural exposure that is susceptible to droughts by major crop type for St. John the Baptist Parish.

*Table 2-11: Agricultural Exposure by Crop Type for Drought in St. John the Baptist Parish  
(Source: LSU Ag Center 2014 Parish Totals)*

Agricultural Exposure by Type for Drought				
Soybeans	Sugarcane	Tomatoes	Sweet Corn	Total
\$767,929	\$7,654,543	\$235,200	\$123,000	\$8,780,672

There have been no reported injuries or deaths as a direct result to drought in St. John the Baptist Parish.

### Expansive Soils

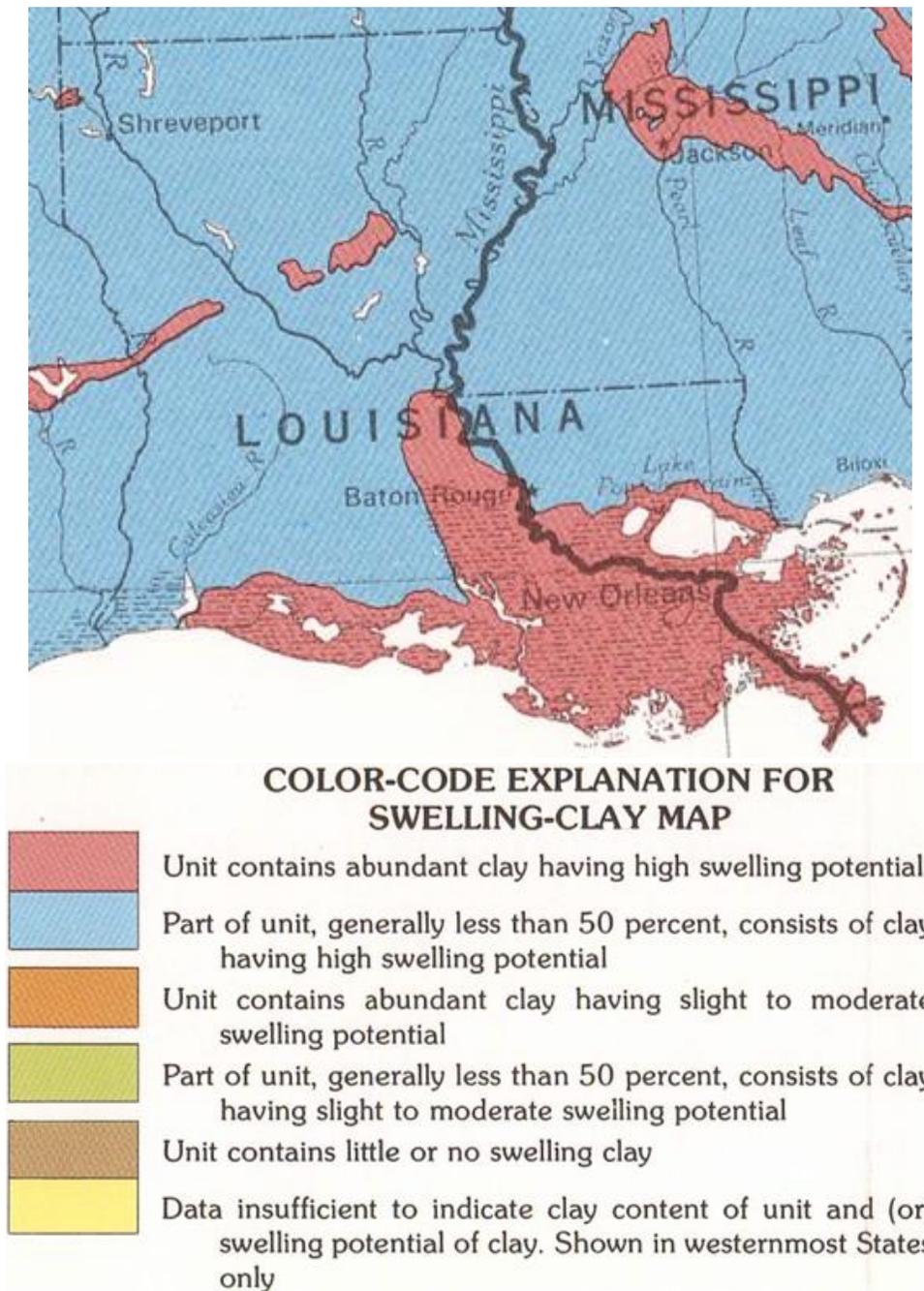
Soils and soft rock that tend to swell or shrink due to changes in moisture content are commonly known as expansive soils. Changes in soil volume present a hazard primarily to structures built on top of expansive soils. The most extensive damage from this hazard occurs to highways and streets.

“Clay” is defined as a natural, earthy, fine-grained material that develops plasticity when mixed with a limited amount of water. Swelling clay is clay that is capable of absorbing large quantities of water, thus increasing greatly in volume.

Variations in moisture content and volume changes are greatest in clays found in regions of moderate to high precipitation, where prolonged periods of drought are followed by long periods of rainfall. It is in these regions, which include many of the southern, central, and western states, that swelling of clays resulting from climatic fluctuations cause the most severe engineering problems.

### Location

The availability of data on expansive soils varies greatly. In or near metropolitan centers and at dam sites, abundant information on the amount of clay generally is available. However, for large areas of the United States, little information is reported other than field observations of the physical characteristics of clay of a particular stratigraphic unit. Therefore, fixed criteria for determining the swelling potential have not been devised. However, one method that was devised in 1989 was based mostly on numerous published descriptions of the physical and mineralogical properties of clays. Using this classification system, it is evident that the southeastern portion of Louisiana, primarily along the Mississippi River from around East Baton Rouge Parish to the mouth of the Mississippi River, is abundant with high swelling potential clays. Clays in the Quaternary Alluvium of the lower Mississippi River valley in Louisiana are reported to be of the "montmorillonite type". Clayey soils of the alluvial valley have high "shrink-swell capacity", and foundation problems in the area are associated with changing water levels and the instability of clayey soils. Foundation failures in alluvial deposits of the Mississippi River valley are common. *Figure 2-8* shows the primary locations of swelling clays in Louisiana and *Figure 2-9* shows the areas within the planning area that are at risk to expansive soils.



*Figure 2-8: Location of Swelling Clays in Louisiana*

*(Source: "Swelling Clays Map of the Conterminous United States", W.W. Olive, A.F. Chleborad, C.W. Frahme, J. Schlocker, R.R. Schneider, and R.L. Shuster; 1989)*

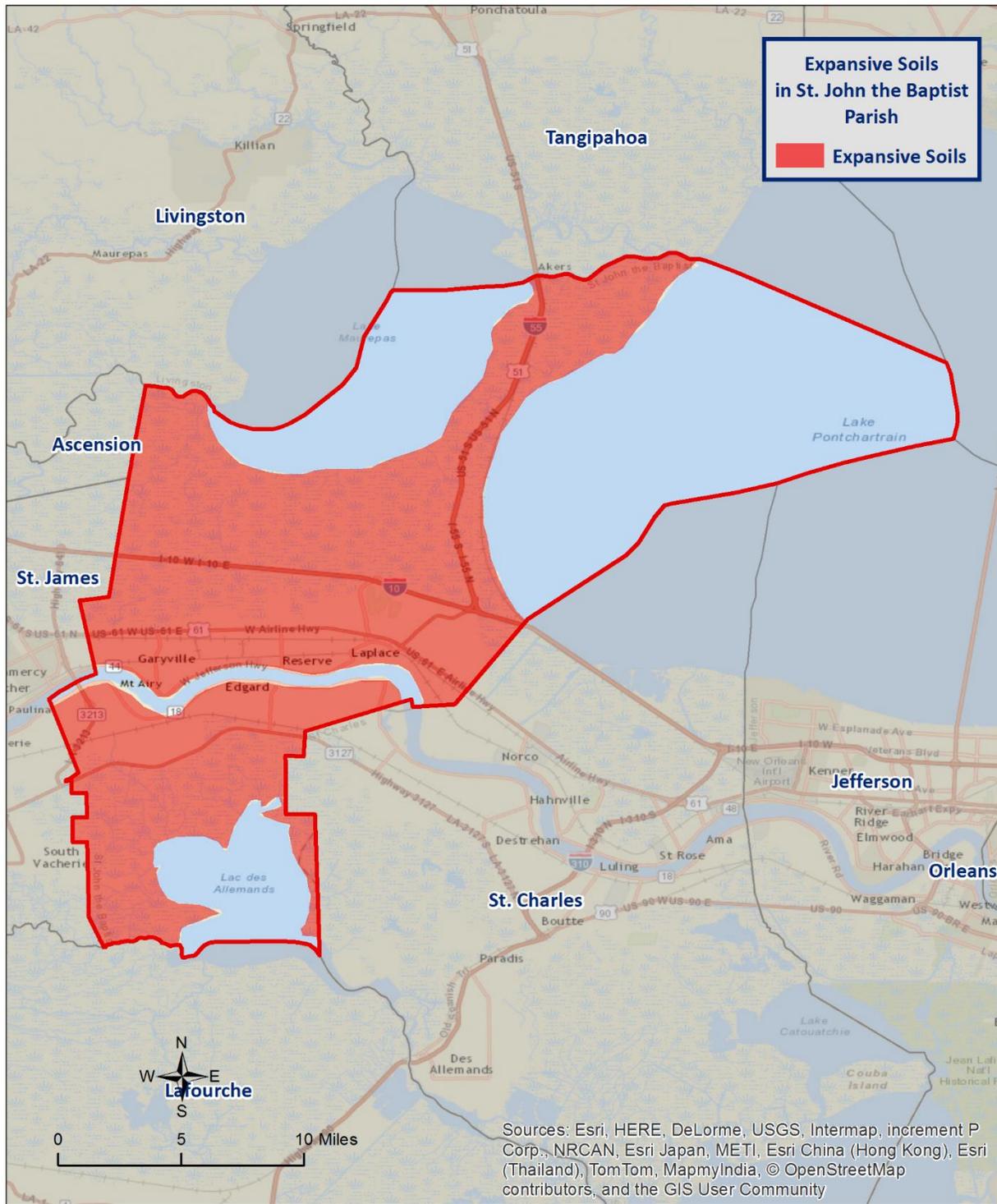


Figure 2-9: Location of Swelling Clays in St. John the Baptist Parish  
 (Source: "Swelling Clays Map of the Conterminous United States", W.W. Olive, A.F. Chleborad, C.W. Frahme, J. Schlocker, R.R. Schneider, and R.L. Shuster; 1989)

Based on the map in *Figure 2-9*, the entire parish is susceptible to expansive soils.

#### *Previous Occurrences / Extent*

The soils in St. James Parish consist primarily of Barbary association (31% of the parish, primarily in low, ponder backswamps), Cancienne silt loam (5% of the parish), Maurepas muck (5.2%), and Kenner muck (3.6%), which are frequently flooded. The anticipated maximum swell volume for the soils is 10.5% and the anticipated minimum swell volume is 5.6% based on an average soil plasticity index (National Cooperative Soil Survey) and the methodology established by the U.S. Army Engineer Waterways Experiment Station.

There is insufficient historical data for previous occurrences of expansive soils in St. John the Baptist Parish.

#### *Frequency / Probability*

Based on *Figure 2-9*, expansive soils are found throughout St. John the Baptist planning area, and an annual chance of occurrence is calculated at 100%.

#### *Estimated Potential Losses*

Because SHELDS and NCDC do not track expansive soils, it is difficult to estimate the annualized losses that have occurred within the parish. The following table presents an analysis of building exposure types that are susceptible to expansive soils by general occupancy type for St. John the Baptist Parish.

*Table 2-12: Building Exposure by General Occupancy Type for Expansive Soils in St. John the Baptist Parish*

Building Exposure by General Occupancy Type for Expansive Soils						
Exposure Types (\$1,000)						
Residential	Commercial	Industrial	Agricultural	Religion	Government	Education
3,557,675	472,112	105,143	5,338	57,436	27,086	55,987

#### *Vulnerability*

See Appendix C for parish building exposure to expansive soils hazard.

### Extreme Heat

There is no operational definition for defining heat or a heat wave. Heat waves are the consequence of the same weather pattern as drought, and therefore both hazards often occur concurrently. A heat wave is an extended period of oppressive and above normal temperatures over a given period of time. The World Meteorological Organization recommends the declaration of a heat wave when the daily maximum temperature exceeds the average maximum temperatures by 9 °F and lasts for a period of at least five days.

However, temperature alone is insufficient to describe the stress placed on humans (as well as flora and fauna) in hot weather. It is crucial to consider the effect of relative humidity since it is essential to the body's ability to perspire and cool. Once the air temperature reaches 95 °F, perspiration becomes a very significant biophysical mechanism to ensure heat loss. Perspiration is ineffective as a cooling mechanism if the water cannot evaporate (i.e., sweating in high relative humidity is reduced as compared to during dry conditions). To communicate this relationship between temperature and humidity, the National Weather Service (NWS) developed the Heat Index (HI), which provides a warning system based on a combination of air temperature and relative humidity. The HI is presented in [Table 2-13](#), and [Table 2-14](#) summarizes the HI risk levels and protective measures. The NWS devised the index for shady, light wind conditions, and thus advises that the HI value can be increased by as much as 15 °F if a person is in direct sunlight with strong, hot winds present.

Most heat disorders (e.g., sunburn, heat cramps, heat exhaustion, and heat stroke) occur because the victim has been overexposed to heat, or has over-exercised in relation to their age and physical condition. Other circumstances that can induce heat-related illnesses include stagnant atmospheric conditions and poor air quality. Seniors and children are most at risk from adverse heat effects. Extreme heat can also damage roads, bridges, pipelines, utilities, and railroads. High temperatures can be partially responsible for deflection of rails and related railroad accidents.

According to NOAA, extreme heat is the leading weather-related cause of death in the United States. While heat-related deaths in Louisiana are not common, due in part to the consistency and predictability of high seasonal temperatures, they do occur and are intense and dangerous. Such deaths happen in a variety of circumstances, often in ways that are not easily categorized due to their unexpectedness. For instance, although exposure to heat is higher at the beach than usual, NOAA does not track heat-related deaths there because such deaths happen infrequently.

Table 2-13: Heat Index Advisor Based on Air Temperature (°F) and Relative Humidity  
(Source: National Weather Service)

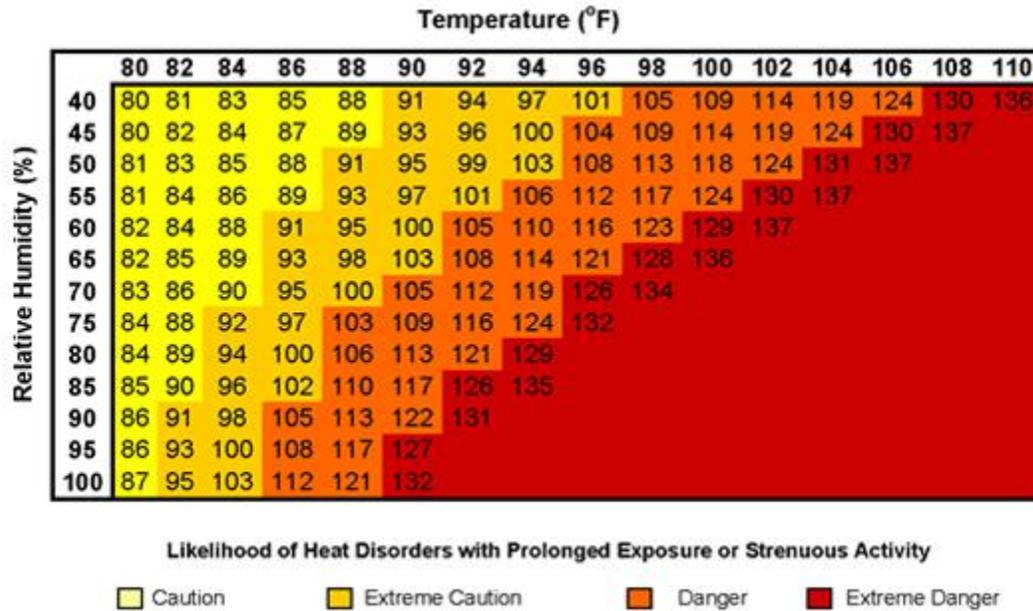


Table 2-14: Summary of Heat Index Risk Levels with Protective Measures  
(Source: National Weather Service)

Heat Index	Risk Level	Protective Measures
Less than 91°F	Lower (Caution)	Basic heat safety and planning.
91°F to 103°F	Moderate	Implement precautions and heighten awareness.
103°F to 115°F	High	Additional precautions to protect workers.
Greater than 115°F	Very High to Extreme	Triggers even more aggressive protective measures.

#### Location

Extreme heat typically impacts a region and not one specific parish. Because extreme heat is a climatological based hazard and has the same probability of occurring in St. John the Baptist Parish as all of the adjacent parishes, the entire parish is equally at risk for extreme heat.

#### Previous Occurrences / Extents

The SHELUDS database reports no significant extreme heat events occurring within the boundaries of St. John the Baptist Parish between the years of 1989 - 2014.

#### Frequency / Probability

The SHELUDS database reports no extreme heat events occurring within the boundaries of St. John the Baptist Parish within the past 25 years. Based on this historical data, an extreme heat event is considered to be a rare event for the entire planning area of St. John the Baptist Parish.

*Estimated Potential Losses*

Because an extreme heat event that causes property or crop damage and injuries or loss of life has not occurred within the boundaries of St. John the Baptist Parish in the past 25 years, extreme heat events are not carried forward into the risk assessment.

## Flooding

A flood is the overflow of water onto land that is usually not inundated. The National Flood Insurance Program (NFIP) defines a flood as:

A general and temporary condition of partial or complete inundation of two or more acres of normally dry land area or of two or more properties from overflow of inland or tidal waves, unusual and rapid accumulation or runoff of surface waters from any source, mudflow, or collapse or subsidence of land along the shore of a lake or similar body of water as a result of erosion or undermining caused by waves or currents of water exceeding anticipated cyclical levels that result in a flood as defined above.

Factors influencing the type and severity of flooding include natural variables such as precipitation, topography, vegetation, soil texture, and seasonality, as well as anthropogenic factors such as urbanization (extent of impervious surfaces), land use (agricultural and forestry tend to remove native vegetation and accelerate soil erosion), and the presence of flood-control structures such as levees and dams.

Excess precipitation, produced from thunderstorms or hurricanes, is often the major initiating condition for flooding. Louisiana may experience high rainfall totals at any time of day or year. During the cooler months, slow-moving frontal weather systems produce heavy rainfalls, while the summer and autumn seasons produce major precipitation in isolated thunderstorm events (often on warm afternoons) that may lead to localized flooding. During these warmer seasons, floods are overwhelmingly of the flash flood variety, as opposed to the slower-developing river floods caused by heavy stream flow during the cooler months.

In cooler months, particularly in the spring, Louisiana is in peak season for severe thunderstorms. The fronts that cause these thunderstorms often stall while passing over the state, occasionally producing rainfall totals exceeding ten inches within a period of a few days. Since soil tends to be nearly saturated at this time (due to relatively low overall evaporation rates), spring typically becomes the period of maximum stream flow across the state. Together, these characteristics increase the potential for high water, with low-lying, poorly drained areas being particularly susceptible to flooding during these months.

In Louisiana, six specific types of floods are of main concern: riverine, flash, ponding, backwater, urban, and coastal.

- **Riverine flooding** occurs along a river or smaller stream. It is the result of runoff from heavy rainfall or intensive snow or ice melt. The speed with which riverine flood levels rise and fall depends not only on the amount of rainfall, but even more on the capacity of the river itself, including the contour and land cover of its drainage basin. The smaller the river, the faster that water levels rise and fall. Thus, the Mississippi River levels rise and fall slowly due to its large capacity. Generally, elongated and intensely-developed drainage basins will reach faster peak discharges and faster falls than circular-shaped and forested basins of the same area.
- **Flash flooding** occurs when locally intense precipitation inundates an area in a short amount of time, resulting in local stream flow and drainage capacity being overwhelmed.
- **Ponding** occurs when concave areas (e.g., parking lots, roads, and clay-lined natural low areas) collect water and are unable to drain.
- **Backwater flooding** occurs when water slowly rises from a normally unexpected direction where protection has not been provided. A model example is the flooding that occurred in LaPlace during Hurricane Isaac in 2012. Although the town was protected by a levee on the side facing

the Mississippi River, floodwaters from Lake Maurepas and Lake Pontchartrain crept into the community on the side of town opposite the Mississippi River.

- **Urban flooding** is similar to flash flooding but is specific to urbanized areas. It takes place when storm water drainage systems cannot keep pace with heavy precipitation, and water accumulates on the surface. Most urban flooding is caused by slow-moving thunderstorms or torrential rainfall.
- **Coastal flooding** can appear similar to any of the other flood types, depending on its cause. It occurs when normally dry coastal land is flooded by seawater, but may be caused by direct inundation (when the sea level exceeds the elevation of the land), overtopping of a natural or artificial barrier, or the breaching of a natural or artificial barrier (i.e., when the barrier is broken down by the sea water). Coastal flooding is typically caused by storm surge, tsunamis, or gradual sea level rise.

In St. John the Baptist Parish, all six types of flooding have historically been observed. For purposes of this assessment, ponding, flash flooding, and urban flooding are considered to be flooding as a result of storm water from heavy precipitation thunderstorms.

Based on stream gauge levels and precipitation forecasts, the NWS posts flood statements, watches, and warnings. The NWS issues the following weather statements with regard to flooding:

- **Flood Categories**
  - Minor Flooding: Minimal or no property damage, but possibly some public threat.
  - Moderate Flooding: Some inundation of structures and roads near streams. Some evacuations of people and/or transfer of property to higher elevations.
  - Major Flooding: Extensive inundation of structures and roads. Significant evacuations of people and/or transfer of property to higher elevations.
  - Record Flooding: Flooding which equals or exceeds the highest stage or discharge at a given site during the period of record keeping.
- **Flood Warning**
  - Issued along larger streams when there is a serious threat to life or property.
- **Flood Watch**
  - Issued when current and developing hydrometeorological conditions are such that there is a threat of flooding, but the occurrence is neither certain nor imminent.

Floods are measured primarily by probability of occurrence. A 10-year flood event, for example, is an event of small magnitude (in terms of stream flow or precipitation) but with a relatively high annual probability of recurrence (10%). A 100-year flood event is larger in magnitude, but it has a smaller chance of recurrence (1%). A 500-year flood is significantly larger than both a 100-year event and a 10-year event, but it has a lower probability than both to occur in any given year (0.2%). It is important to understand that an X-year flood event does not mean an event of that magnitude occurs only once in X years. Instead, it means that on average, a flood event of that magnitude can be expected to occur once every X years. Given that such statistical probability terms are inherently difficult for the general population to understand, the Association of State Floodplain Managers (ASFPM) promotes the use of more tangible expressions of flood probability. As such, the ASFPM also expresses the 100-yr flood event as having a 25% chance of occurring over the life of a 30-yr mortgage.

It is essential to understand that the magnitude of an X-year flood event for a particular area depends on the source of flooding and the area's location. The size of a specific flood event is defined through historic data of precipitation, flow, and discharge rates. Consequently, 100-year flood events may have very different impacts. The 100-year flood event in two separate locations have the same likelihood to occur, but they do not necessarily have the same magnitude. For example, a 100-year flood event for the Mississippi River means something completely different in terms of discharge values ( $\text{ft}^3/\text{s}$ ) than for the Amite River. Not only are the magnitudes of 100-yr events different between rivers, they can be different along any given river. A 100-year flood event upstream is different from one downstream due to the variation of river characteristics (volume, discharge, and topography). As a result, the definition of what constitutes a 100-year flood event is specific to each location, river, and time, since floodplain and river characteristics temporally fluctuate. Finally, it is important to note that each flood event is unique. Two hypothetical events at the same location, given the same magnitude of stream flow, may still produce substantially different impacts, if there were different antecedent moisture characteristics, different times of day of occurrence (which indicates the population's probable activities at the flood's onset), or other characteristic differences.

The 100-year event is of particular significance since it is the regulatory standard that determines the obligation (or lack thereof) to purchase flood insurance. Flood insurance premiums are set depending on the flood zone as modeled by NFIP Rate Maps. The NFIP and FEMA suggest insurance rates based on Special Flood Hazard Areas (SFHAs), as diagrammed in *Figure 2-10*.

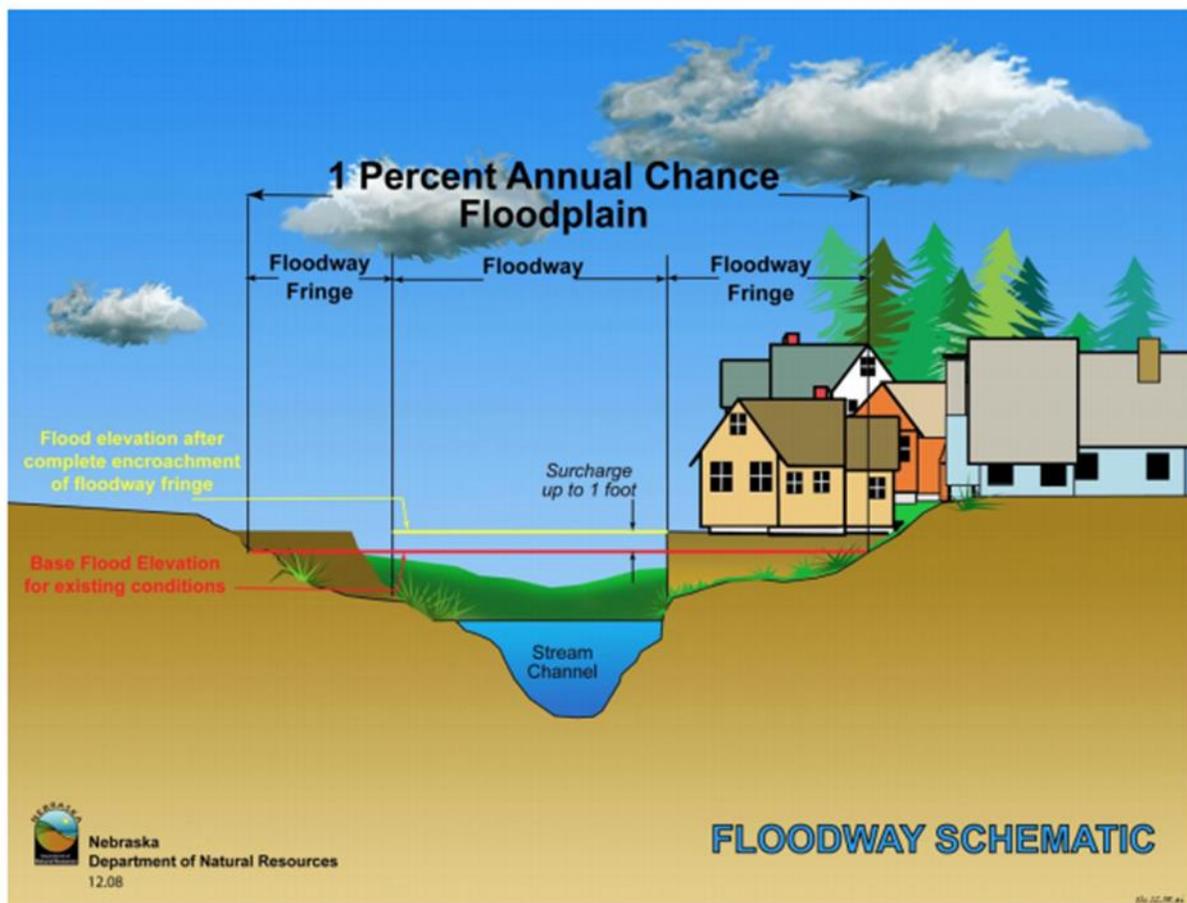


Figure 2-10: Schematic of 100 year Floodplain. The special hazard area (SFHA) extends to the end of the floodway fringe.

(Source: Nebraska Department of Natural Resources)

A SFHA is the land area covered by the floodwaters of the base flood (red line in *Figure 2-1010*), where the NFIP's floodplain management regulations must be enforced and the area where the mandatory purchase of flood insurance applies.

#### *Property Damage*

The depth and velocity of flood waters are the major variables in determining property damage. Flood velocity is important because the faster water moves, the more pressure it puts on a structure and the more it will erode stream banks and scour the earth around a building's foundation. In certain circumstances, deep and fast moving waters can push a building off its foundation. Structural damage can also be caused by the weight of standing water (hydrostatic pressure).

Another threat to property from a flood is called "soaking". When soaked, many materials change their composition or shape. Wet wood will swell, and if dried too quickly, will crack, split, or warp. Plywood can come apart and gypsum wallboard can deteriorate if it is bumped before it has time to completely dry. The longer these materials are saturated, the more moisture, sediment, and pollutants they absorb.

Soaking can also cause extensive damage to household goods. Wooden furniture may become warped, making it unusable, while other furnishings such as books, carpeting, mattresses, and upholstery usually are not salvageable. Electrical appliances and gasoline engines will flood, making them worthless until they are professionally dried and cleaned.

Many buildings that have succumbed to flood waters may look sound and unharmed after a flood, but water has the potential to cause severe property damage. Any structure that experiences a flood should be stripped, cleaned, and allowed to dry before being reconstructed. This can be an extremely expensive and time consuming effort.

#### *Repetitive Loss Properties*

Repetitive loss structures are structures covered by a contract for flood insurance made available under the NFIP that:

- a. Have incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event; and
- b. At the time of the second incidence of flood-related damage, the contract for flood insurance contains increased cost of compliance coverage.

Severe Repetitive Loss (SRL) is defined by the Flood Insurance Reform Act of 2004 and updated in the Biggert-Waters Flood Insurance Reform Act of 2012. For a property to be designated SRL, the following criteria must be met:

- a. Is covered under a contract for flood insurance made available under the NFIP; and
- b. Has incurred flood related damage –
  - 1) For which four or more separate claims payments have been made under flood insurance coverage with the amount of each claim exceeding \$5,000 and with the cumulative amount of such claims payments exceeding \$20,000; or
  - 2) For which at least two separate claims payments have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the insured structure.

Repetitive loss properties for St. John the Baptist Parish are provided below:

Table 2-15: Repetitive Loss Structures for St. John the Baptist Parish

Jurisdiction	Number of Structures	Residential	Commercial	Government	Total Claims	Total Claims Paid	Average Claim Paid
St. John the Baptist Parish	221	215	6	0	559	\$20,118,852	\$35,991

All 221 repetitive loss structures were able to be geocoded in order to provide an overview of where the repetitive loss structures were located throughout the parish. *Figure 2-11* shows the approximate location of the 221 structures, while *Figure 2-12* shows where the highest concentration of repetitive loss structures are located. Through the density map, it is clear that the primary concentrated area of repetitive loss structures is focused around the unincorporated area of LaPlace and along the banks of the Mississippi River.

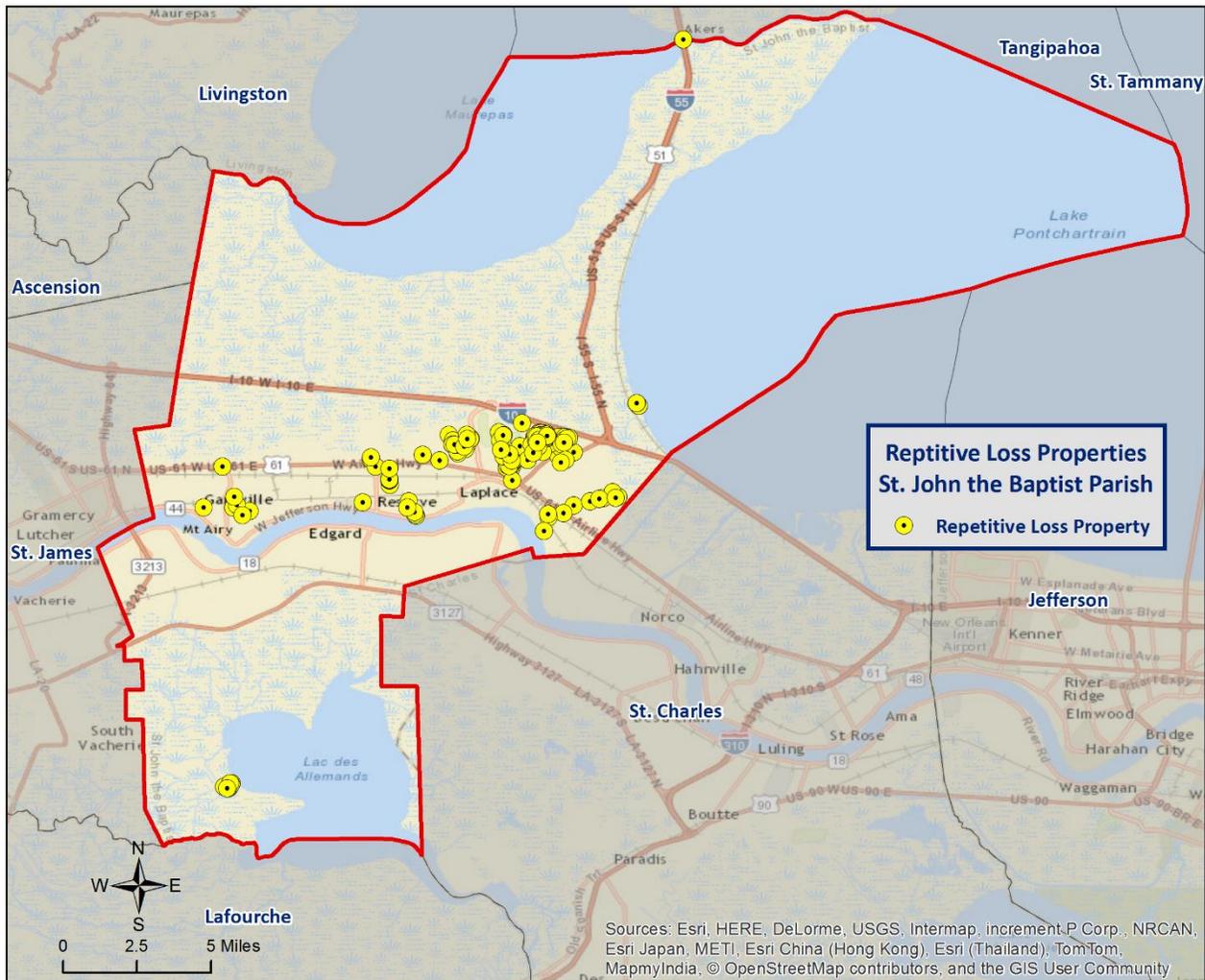


Figure 2-11: Repetitive Loss Properties in St. John the Baptist Parish

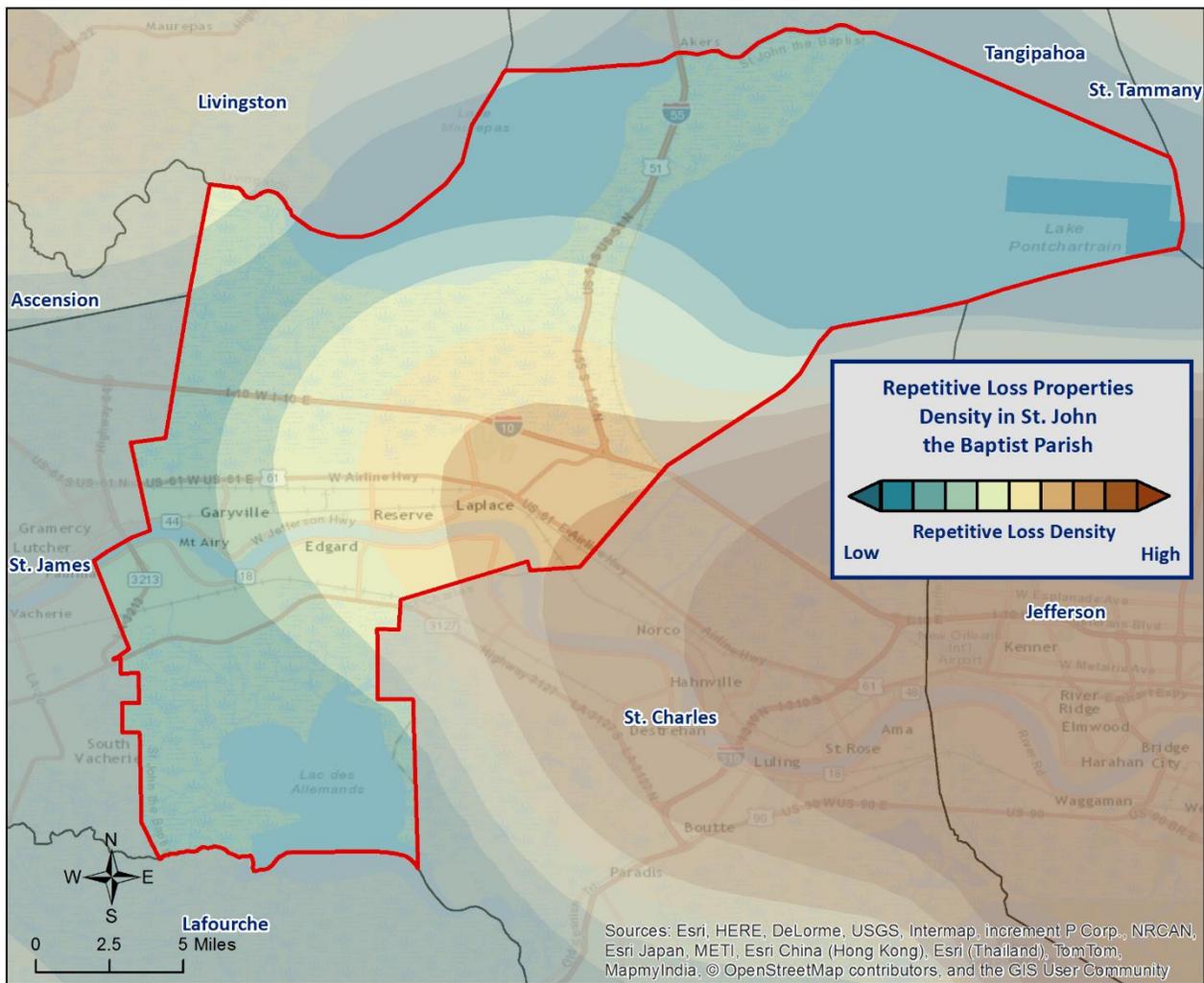


Figure 2-12: Repetitive Loss Property Densities in St. John the Baptist Parish

National Flood Insurance Program (NFIP)

Flood insurance statistics indicate that St. John the Baptist Parish has 6,996 flood insurance policies with the NFIP, with total annual premiums of approximately \$5 million. St. John the Baptist Parish will continue to adopt and enforce floodplain management requirements, including regulating new construction in SFHAs, and will continue to monitor activities including local requests for map updates. Flood insurance statistics and additional NFIP participation details for St. John the Baptist Parish are provided in the tables to follow.

Table 2-16: Summary of NFIP Policies for St. John the Baptist Parish

Location	No. of Insured Structures	Total Insurance Coverage Value	Annual Premiums Paid	No. of Insurance Claims Filed Since 1978	Total Loss Payments
St. John the Baptist Parish	6,996	\$1,906,622,500	\$5,019,694	4,889	\$263,412,801

Table 2-17: Summary of Community Flood Maps for St. John the Baptist Parish

CID	Community Name	Initial FHBM Identified	Initial FIRM Identified	Current Effective Map Date	Date Joined the NFIP	Tribal
220164	St. John the Baptist Parish	8/9/1974	7/16/1980	11/4/2010	7/16/1980	No

According to the Community Rating System (CRS) list of eligible communities dated June 1, 2014, St. John the Baptist Parish participates in the CRS.

Table 2-18: Participants in the CRS

Community Number	Name	CRS Entry Date	Current Effective Date	Current Class	% Discount for SFHA	% Discount for Non-SFHA	Status
220164	St. John the Baptist Parish	10/1/1994	5/1/2010	8	10%	5%	C

### Threat to People

Similar to the effects on property, depth and velocity are major factors in determining the threat posed to people by flooding. It takes very little depth or velocity for flood waters to become dangerous. A car will float in less than two feet of moving water, and can be swept downstream into deeper waters, trapping passengers within the vehicle. Victims of flooding have often put themselves in perilous situations by entering flood waters that they believe to be safe, or by ignoring travel advisories.

Major health concerns are also associated with floods. Floodwaters can transport materials such as dirt, oil, animal waste, and chemicals (e.g., farm, lawn, and industrial) that may cause illnesses of various degrees when coming in contact with humans. Flood waters can also infiltrate sewer lines and inundate wastewater treatment plants, causing sewage to backup and creating a breeding ground for dangerous bacteria. This infiltration may also cause water supplies to become contaminated and undrinkable.

### Flooding in St. John the Baptist Parish

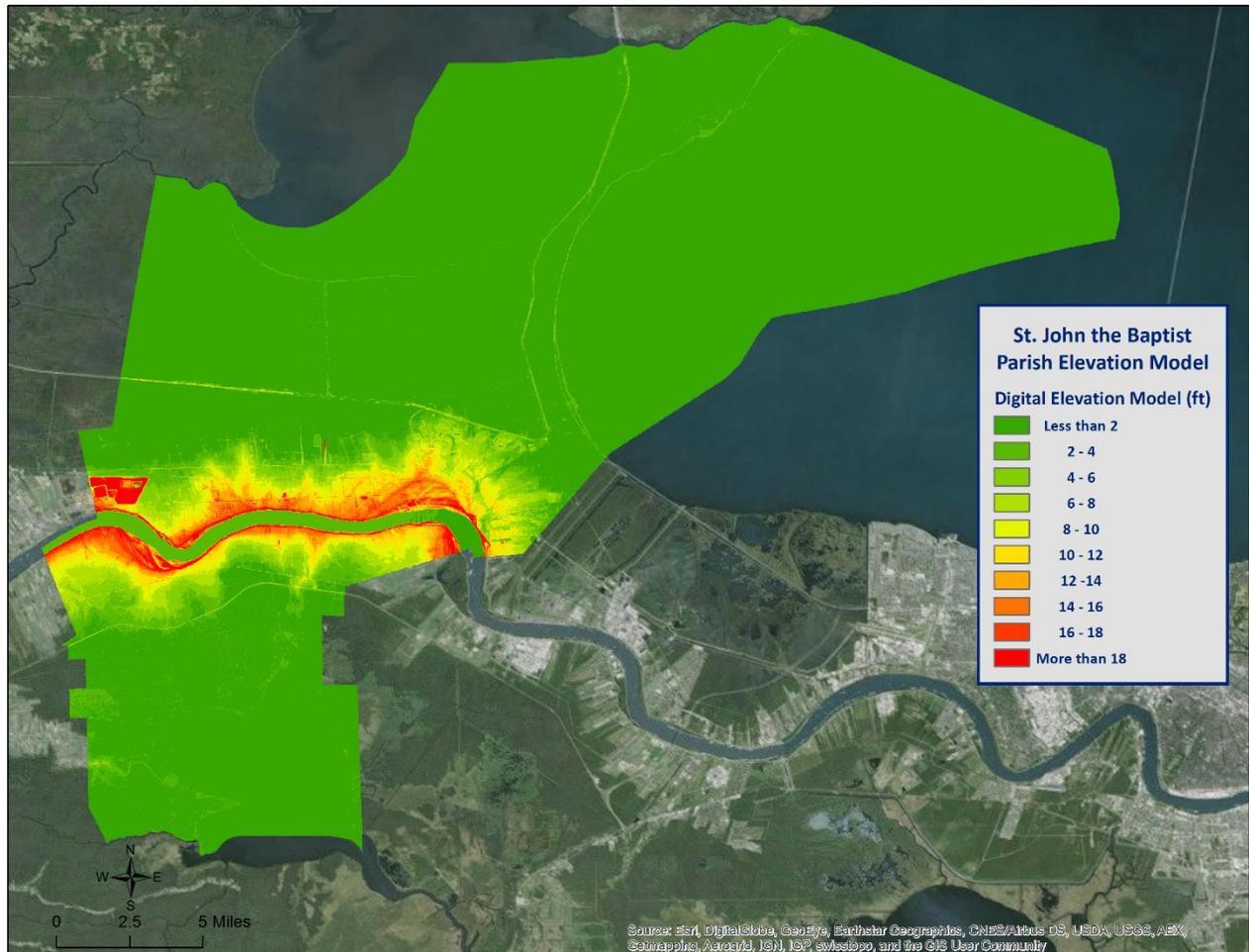
By definition, flooding is caused when an area receives more water than the drainage system can convey. Below is a brief synopsis of the types of flooding events that affect St. John the Baptist Parish.

**Riverine flooding:** Overbank flooding of rivers and streams occur in the relatively flat floodplain areas of the parish. These areas may remain inundated for days or even weeks.

**Flash flooding:** Characterized by a rapid rise in water level, high velocity, and large amounts of debris. Flash flooding is capable of uprooting trees, undermining bridges and buildings, and scouring new channels. Major factors in flash flooding are the high intensity and short duration of rainfall, as well as the steepness of watershed and stream gradients.

**Local Drainage or High Groundwater Levels:** Locally heavy precipitation may produce flooding in areas other than delineated floodplains or along recognizable drainage channels. If local conditions cannot accommodate intense precipitation through a combination of infiltration and surface runoff, water may accumulate and cause flooding problems.

**Fluctuating Lake Levels:** Water levels in lakes can fluctuate on a short-term, seasonal basis or on a long-term basis over periods of months or years. Heavy seasonal rainfall can cause high lake levels for short periods of time. Not only does this cause levels to rise, but it prevents natural drainage and causes flooding. Examples of this are Lakes Maurepas and Pontchartrain, as well as Lac Des Allemands.



*Figure 2-13: Elevation throughout St. John the Baptist Parish*

Looking at the digital elevation model (DEM) in *Figure 2-13* for St. John the Baptist Parish is instructive in visualizing where the low lying and high risk areas are for the parish. The average elevation throughout the parish is approximately fifteen feet. In the southern portion of the parish, the land is dominated by wetlands approximately ten to fifteen feet above sea level along the riverbanks, sloping gradually down to five feet away from the river towards Lac Des Allemands. The northern portion of the parish is comprised mostly of forested wetlands with elevations ranging from less than two feet up to five feet.

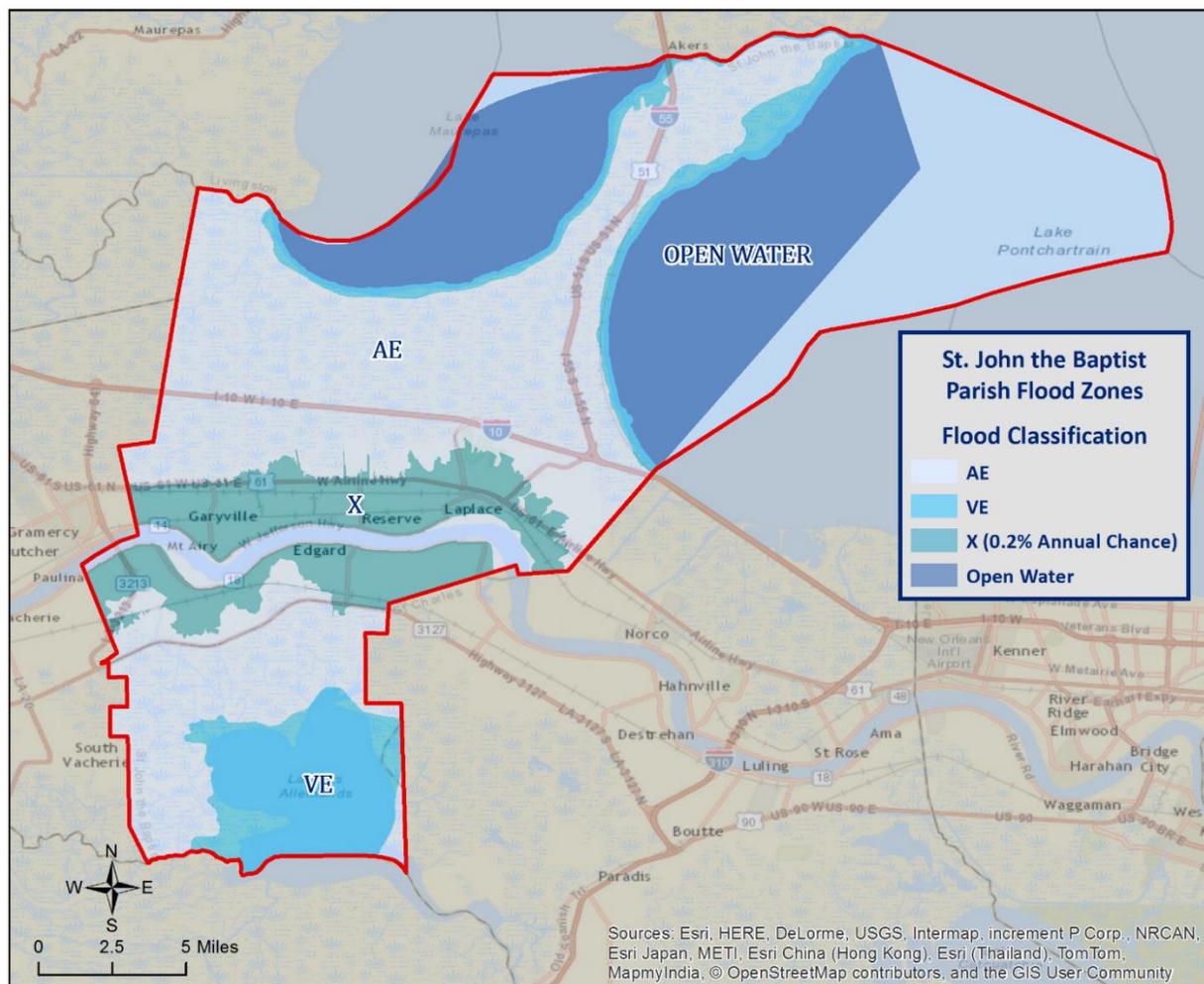


Figure 2-14: The 100-Year Floodplain for St. John the Baptist Parish

### Location

St. John the Baptist Parish has experienced significant flooding in its history and can expect more in the future. St. John the Baptist Parish is susceptible to several different types of flooding (riverine, flash, and storm surge) due to its geographical location.

### Previous Occurrences and Extents

Historically, there have been nine flooding events that have created significant flooding in St. John the Baptist Parish between 1989 and 2014. The following pages contains a brief synopsis of the nine flooding events over the last 25 years, including those that have occurred since the parish's last planning update.

Table 2-19: Historical Floods in St. John the Baptist Parish with Locations from 1989 - 2014

Date	Extents	Type of Flooding	Estimated Damages	Location
May 5, 1991	Coastal flooding along the eastern shores of the parish occurred, causing extensive flood damage throughout the parish.	Coastal Flood	\$316,425	EASTERN PORTION OF PARISH
October 5, 1996	Coastal flooding resulted from a sustained period of strong east winds. Tides of 3 to 4 feet above normal developed over the southeast Louisiana coastal areas from the mouth of the Pearl River through the mouth of the Mississippi River to Grand Isle and areas around Lake Pontchartrain.	Coastal Flood	\$742,374	EASTERN PORTION OF PARISH
April 1, 1997	Flooding along the Mississippi River caused several barge and ship accidents along the river.	Flood	\$111,826	MISSISSIPPI RIVER
June 26, 1999	Intense rainfall overwhelmed local drainage systems, producing flash flooding throughout the parish. Several streets and homes were flooded throughout the parish.	Flash Flood	\$20,975	PARISH-WIDE
June 8, 2001	Rains from Tropical Storm Allison caused severe street flooding and some homes within the parish were flooded.	Flash Flood	\$178,850	PARISH-WIDE
June 10, 2001	Remnants of Tropical Storm Allison caused flash flooding of several streets and homes throughout the parish.	Flash Flood	\$150,000	PARISH-WIDE
April 25, 2004	Thunderstorms produced up to 12 inches of rain in some areas of southern Louisiana. The parish experienced flash flooding because of this, and 1 home was flooded.	Flash Flood	\$2,466	PARISH-WIDE
December 8, 2009	Heavy rainfall estimated between 4 and 7 inches caused widespread street flooding. Between 15 and 20 homes had minor flooding.	Flash Flood	\$81,439	GARYVILLE
May 28, 2014	Approximately 15 to 20 homes were flooded in the Garyville area due to intense storms that caused flash flooding in the area.	Flash Flood	\$200,000	RESERVE

Based on previous flood events, the worst-case scenarios are based on several different types of flooding events. Storm water excesses primarily affect the low lying areas of the parish, and these areas can expect flood depths of up to four to six feet. Areas located along the banks of the Mississippi River can expect flood depths of approximately five feet in the future.

#### Frequency / Probability

Based on historical record, the overall probability for the entire St. John the Baptist Parish planning area is 36%, with nine events occurring over a 25-year period.

#### Estimated Potential Losses

Using the Hazus-MH Flood Model, along with the Parish DFIRM, the 100-year flood scenario was analyzed to determine losses from this worst-case scenario. *Table 2-20* shows the total economic losses that would result from this occurrence.

*Table 2-20: Estimated Losses in St. John the Baptist Parish from a 100-year Flood Event*

Jurisdiction	Estimated Total Losses from 100-Year Flood Event
St. John the Baptist Parish	\$523,021,000

The Hazus-MH Flood Model also provides a breakdown for seven primary sectors (Hazus occupancy) throughout the parish. The losses by sector are listed in the table below.

*Table 2-21: Estimated Losses in St. John the Baptist Parish from a 100-year Flood by Sector (Source: Hazus-MH)*

St. John the Baptist Parish	Estimated Total Losses from 100 Year Flood Event
Agricultural	\$491,000
Commercial	\$54,292,000
Government	\$541,000
Industrial	\$17,664,000
Religious / Non-Profit	\$5,111,000
Residential	\$430,478,000
Schools	\$14,444,000
<b>Total</b>	<b>\$523,021,000</b>

### Threat to People

The total population within the parish that is susceptible to a flood hazard is shown in the table below.

*Table 2-22: Vulnerable Populations Susceptible to a 100-year Flood Event  
(Source: Hazus-MH)*

Number of People Exposed to Flood Hazards			
Location	# in Community	# in Hazard Area	% in Hazard Area
St. John the Baptist Parish	45,924	13,812	30.1%

The Hazus-MH Flood Model was extrapolated to provide an overview of vulnerable populations throughout the parish in the tables below:

*Table 2-23: Vulnerable Populations Susceptible to a 100-year Flood Event in St. John the Baptist Parish  
(Source: Hazus-MH)*

St. John the Baptist Parish		
Category	Total Numbers	Percentage of People in Hazard Area
Number in Hazard Area	13,812	30.1%
Persons Under 5 Years	1,012	7.3%
Persons Under 18 Years	2,703	19.6%
Persons 65 Years and Over	1,424	10.3%
White	5,865	42.5%
Minority	7,947	57.5%

### Vulnerability

See Appendix C for parish buildings that are susceptible to flooding due to proximity within the 100-year flood plain.

## Thunderstorms

The term “thunderstorm” is usually used as a catch-all term for several types of storms. Here, “thunderstorm” is defined to include any precipitation event in which thunder is heard or lightning is seen. Thunderstorms are often accompanied by heavy rain and strong winds, and depending on conditions, occasionally by hail or snow. Thunderstorms form when humid air masses are heated, which causes them to become convectively unstable. Consequently, the air masses rise. Upon rising, the air masses’ water vapor condenses into liquid water and/or deposits directly into ice when they rise sufficiently to cool to the dew-point temperature.

Thunderstorms are classified into four main types (single-cell, multi-cell, squall line, and supercell), depending on the degree of atmospheric instability, the change in wind speed with height (called wind shear), and the degree to which the storm’s internal dynamics are coordinated with those of adjacent storms. There is no such interaction for single-cell thunderstorms, but there is significant interaction with clusters of adjacent thunderstorms in multi-cell thunderstorms, and with a linear “chain” of adjacent storms in squall line thunderstorms. Though supercell storms have no significant interactions with other storms, they have very well-organized and self-sustaining internal dynamics, which allows them to be the longest-lived and most severe of all thunderstorms.

The life of a thunderstorm proceeds through three stages: the developing (or cumulus) stage, the mature stage, and the dissipation stage. During the developing stage, the unstable air mass is lifted as an updraft into the atmosphere. This sudden lift rapidly cools the moisture in the air mass, releasing latent heat as condensation and/or deposition occurs, which warms the environment, thus making it less dense than the surrounding air. This process intensifies the updraft and creates a localized lateral rush of air from all directions into the area beneath the thunderstorm to feed continued updrafts. At the mature stage, the rising air is accompanied by downdrafts caused by the shear of falling rain (if melted completely), or hail, freezing rain, sleet, or snow (if not melted completely). The dissipation stage is characterized by the dominating presence of the downdraft as the hot surface that gave the updrafts their buoyancy is cooled by precipitation. During the dissipation stage, the moisture in the air mass largely empties out.

The Storm Prediction Center, in conjunction with the NWS, has the ability to issue advisory messages based on forecasts and observations. The following are the advisory messages that may be issued, along with definitions of each:

- *Severe Thunderstorm Watch:* Issued to alert people to the possibility of a severe thunderstorm developing in the area. Expected time frame for these storms is three to six hours.
- *Severe Thunderstorm Warning:* Issued when severe thunderstorms are imminent. This warning is highly localized and covers parts of one to several parishes (counties).

A variety of hazards might be produced by thunderstorms, including lightning, hail, tornadoes or waterspouts, flash flooding, and high-speed winds called downbursts. Nevertheless, given all of the criteria, the National Oceanic and Atmospheric Administration (NOAA) characterizes a thunderstorm as severe when it produces one or more of the following:

- Hail of one inch in diameter or larger
- Wind gusts to 58 mph or greater
- One or more tornadoes

Tornadoes and flooding hazards have been profiled within this report; therefore, for the purpose of thunderstorms, the sub-hazards of hail, high winds, and lightning will be profiled.

Thunderstorms occur throughout Louisiana at all times of the year, although the types and severity of those storms vary greatly, depending on a wide variety of atmospheric conditions. Thunderstorms generally occur more frequently during the late spring and early summer when extreme variations exist between ground surface temperatures and upper atmospheric temperatures.

#### *Hazard Description*

##### *Hailstorms*

Hailstorms are severe thunderstorms in which balls or chunks of ice fall along with rain. Hail initially develops in the upper atmosphere as ice crystals that are bounced about by high-velocity updraft winds. The ice crystals grow through deposition of water vapor onto their surface. They then fall partially to a level in the cloud where the temperature exceeds the freezing point, melt partially, and then get caught in another updraft, whereupon re-freezing and deposition grows another concentric layer of ice. After several trips up and down the cloud, they develop enough weight to fall. The size of hailstones varies depending on the severity and size of the thunderstorm. Higher surface temperatures generally mean stronger updrafts, which allow more massive hailstones to be supported by updrafts, leaving them suspended longer. This longer suspension time results in larger hailstone sizes. The following tables display the TORRO Hailstorm Intensity Scale, along with a spectrum of hailstone diameters and their everyday equivalents.

Table 2-24: TORRO Hailstorm Intensity Scale

Intensity Category		Hail Diameter (mm)	Probable Kinetic Energy	Typical Damage Impacts
H0	Hard Hail	5	0 - 20	No damage
H1	Potentially Damaging	5 - 15	>20	Slight general damage to plant, crops
H2	Significant	10 - 20	>100	Significant damage to fruit, crops, vegetation
H3	Severe	20 - 30	>300	Severe damage to fruit and crops, damage to glass and plastic structures, paint and wood scored
H4	Severe	25 - 40	>500	Widespread glass damage, vehicle body work
H5	Destructive	30 - 50	>800	Wholesale destruction of glass, damage to tiled roofs, significant risk of injuries
H6	Destructive	40 - 60		Bodywork of grounded aircraft dented, brick walls pitted
H7	Destructive	50 - 75		Severe roof damage, risk of serious injuries
H8	Destructive	60 - 90		Severe damage to aircraft bodywork
H9	Super Hailstorms	75 - 100		Extensive structural damage. Risk of severe or even fatal injuries to persons caught in the open
H10	Super Hailstorms	>100		Extensive structural damage. Risk of severe or even fatal injuries to persons caught in the open

Table 2-25: Spectrum of Hailstone Diameters and their Everyday Description  
(Source: NWS)

Spectrum of Hailstone Diameters	
Hail Diameter Size	Description
1/4"	Pea
1/2"	Plain M&M
3/4"	Penny
7/8"	Nickle
1" (severe)	Quarter
1 1/4"	Half Dollar
1 1/2"	Ping Pong Ball / Walnut
1 3/4"	Golf Ball
2"	Hen Egg / Lime
2 1/2"	Tennis Ball
2 3/4"	Baseball
3"	Teacup / Large Apple
4"	Softball
4 1/2"	Grapefruit
4 3/4" – 5"	Computer CD-DVD

Hailstorms can cause widespread damage to structures, automobiles, and crops. While the damage to individual structures or vehicles is often minor, the cumulative cost to communities, especially across large metropolitan areas, can be quite significant. Hailstorms can also be devastating to crops. The severity of hailstorms depends on the size of the hailstones, the length of time the storm lasts, and where it occurs. Hail rarely causes loss of life, although large hailstones can cause bodily injury.

### High Winds

In general, high winds can occur in a number of different ways, within and without thunderstorms. FEMA distinguishes these as shown in *Table 2-26*.

*Table 2-26: High Winds Categorized by Source, Frequency, and Duration  
(Source: Making Critical Facilities Safe from High Wind, FEMA)*

High Winds Categories			
High Wind Type	Description	Relative Frequency in Louisiana	Relative Maximum Duration in Louisiana
Straight-line Winds	Wind blowing in straight line; usually associated with intense low-pressure area	High	Few-minutes – 1 day
Downslope Winds	Wind blowing down the slope of a mountain; associated with temperature and pressure gradients	N/A	N/A
Thunderstorm Winds	Wind blowing due to thunderstorms, and thus associated with temperature and pressure gradients	High (especially in the spring and summer)	Few minutes – several hours
Downbursts	Sudden wind blowing down due to downdraft in a thunderstorm; spreads out horizontally at the ground, possibly forming horizontal vortex rings around the downdraft	Medium-to-High (~5% of all thunderstorms)	~15 – 20 minutes
Northeaster (nor'easter) Winds	Wind blowing due to cyclonic storm off the east coast of North America; associated with temperature and pressure gradients between the Atlantic and land	N/A	N/A
Hurricane Winds	Wind blowing in spirals, converging with increasing speed toward eye; associated with temperature and pressure gradients between the Atlantic and Gulf and land	Low-to-Medium	Several days
Tornado Winds	Violently rotating column of air from base of a thunderstorm to the ground with rapidly decreasing winds at greater distances from center; associated with extreme temperature gradient	Low-to-Medium	Few minutes – few hours

The only high winds of present concern are thunderstorm winds and downbursts. Straight-line winds are common but are a relatively insignificant hazard (on land) compared to other high winds. Downslope winds are common but are relatively insignificant in the mountainous areas of Louisiana where they occur. Nor'easters are cyclonic events that have at most a peripheral effect on Louisiana, and none associated with high winds. Winds associated with hurricanes and tornadoes will be considered in their respective sections.

Table 2-27 presents the Beaufort Wind Scale, first developed in 1805 by Sir Francis Beaufort, which aids in determining relative force and wind speed based on the appearance of wind effects.

Table 2-27: Beaufort Wind Scale  
(Source: NOAA's SPC)

Beaufort Wind Scale			
Force	Wind (MPH)	WMO Classification	Appearance of Wind Effects on Land
			Calm, smoke rises vertically
1	1-3	Light Air	Smoke drift indicates wind direction, still wind vanes
2	4-7	Light Breeze	Wind felt on face, leaves rustle, vanes begin to move
3	8-12	Gentle Breeze	Leaves and small twigs constantly moving, light flags extended
4	13-17	Moderate Breeze	Dust, leaves, and loose paper lifted, small tree branches move
5	18-24	Fresh Breeze	Small trees in leaf begin to sway
6	25-30	Strong Breeze	Larger tree branches moving, whistling in wires
7	31-38	Near Gale	Whole trees moving, resistance felt walking against wind
8	39-46	Gale	Twigs breaking off trees, generally impedes progress
9	47-54	Strong Gale	Slight structural damage occurs, slate blows off roofs
10	55-63	Storm	Seldom experienced on land, trees broken or uprooted, "considerable structural damage"
11	54-73	Violent Storm	N/A
12	74+	Hurricane	N/A

Major damage directly caused by thunderstorm winds is relatively rare, while minor damage is common, pervasive, and most noticeable when it contributes to power outages. These power outages can have major negative impacts such as increased tendency for traffic accidents, loss of revenue for businesses, increased vulnerability to fire, food spoilage, and other losses that might be sustained by a loss of power. Power outages may pose a health risk for those requiring electric medical equipment and/or air conditioning.

### Lightning

Lightning is a natural electrical discharge in the atmosphere that is a by-product of thunderstorms. Every thunderstorm produces lightning. There are three primary types of lightning: intra-cloud, cloud-to-ground, and cloud-to-cloud. Cloud-to-ground lightning has the potential to cause the most damage to property and crops, while also posing as a health risk to the populace in the area of the strike.

Damage caused by lightning is usually to homes or businesses. These strikes have the ability to damage electrical equipment inside the home or business, and can also ignite a fire that could destroy homes or crops.

Lightning continues to be one of the top three storm-related killers in the United States per FEMA, but it also has the ability to cause negative long-term health effects to the individual that is struck. The following table outlines the lightning activity level which is a measurement of lightning activity.

*Table 2-28: Lightning Activity Level (LAL) Grids*

LAL	Cloud and Storm Development	Lightning Strikes/15 Min
1	No thunderstorms.	-
2	Cumulus clouds are common but only a few reach the towering cumulus stage. A single thunderstorm must be confirmed in the observation area. The clouds produce mainly virga, but light rain will occasionally reach the ground. Lightning is very infrequent.	1-8
3	Towering cumulus covers less than two-tenths of the sky. Thunderstorms are few, but two to three must occur within the observation. Light to moderate rain will reach the ground, and lightning is infrequent.	9-15
4	Towering cumulus covers two to three-tenths of the sky. Thunderstorms are scattered and more than three must occur within the observation area. Moderate rain is common and lightning is frequent.	16-25
5	Towering cumulus and thunderstorms are numerous. They cover more than three-tenths and occasionally obscure the sky. Rain is moderate to heavy and lightning is frequent.	>25
6	Similar to LAL 3 except thunderstorms are dry	

*Hazard Profile*

## Hailstorms

## Location

Because a hailstorm is a climatological based hazard, the entire planning area for St. John the Baptist Parish is equally at risk for hailstorms.

*Previous Occurrences / Extents*

The SHELDUS database reports one significant hailstorm event occurring within the boundaries of St. John the Baptist Parish between the years of 1989-2014. According to the National Climatic Data Center, the hailstorm diameters experienced in St. John the Baptist Parish have ranged from 0.75 inches to 1.75 inches over the 25-year period. The most frequently recorded hail sizes have been 0.75 and one inch diameters.

*Figure 2-15* displays the density of hailstorms in St. John the Baptist Parish and adjacent parishes. *Table 2-29* provides an overview of hail storms that have impacted the St. John the Baptist Parish planning area since 1989 based on the National Climatic Data Center dataset. St. John the Baptist Parish can expect to experience hail up to 1.75 inches for future events.

*Table 2-29: Previous Occurrences of Hailstorms in St. John the Baptist Parish  
(Source: NCDC)*

Date	Recorded Hail Size (inches)	Location
April 4, 1989	1.75	PARISH-WIDE
March 25, 1992	0.75	PARISH-WIDE
May 28, 1994	0.75	LAPLACE
April 14, 1996	1	LAPLACE
March 29, 2011	1.75	LAPLACE

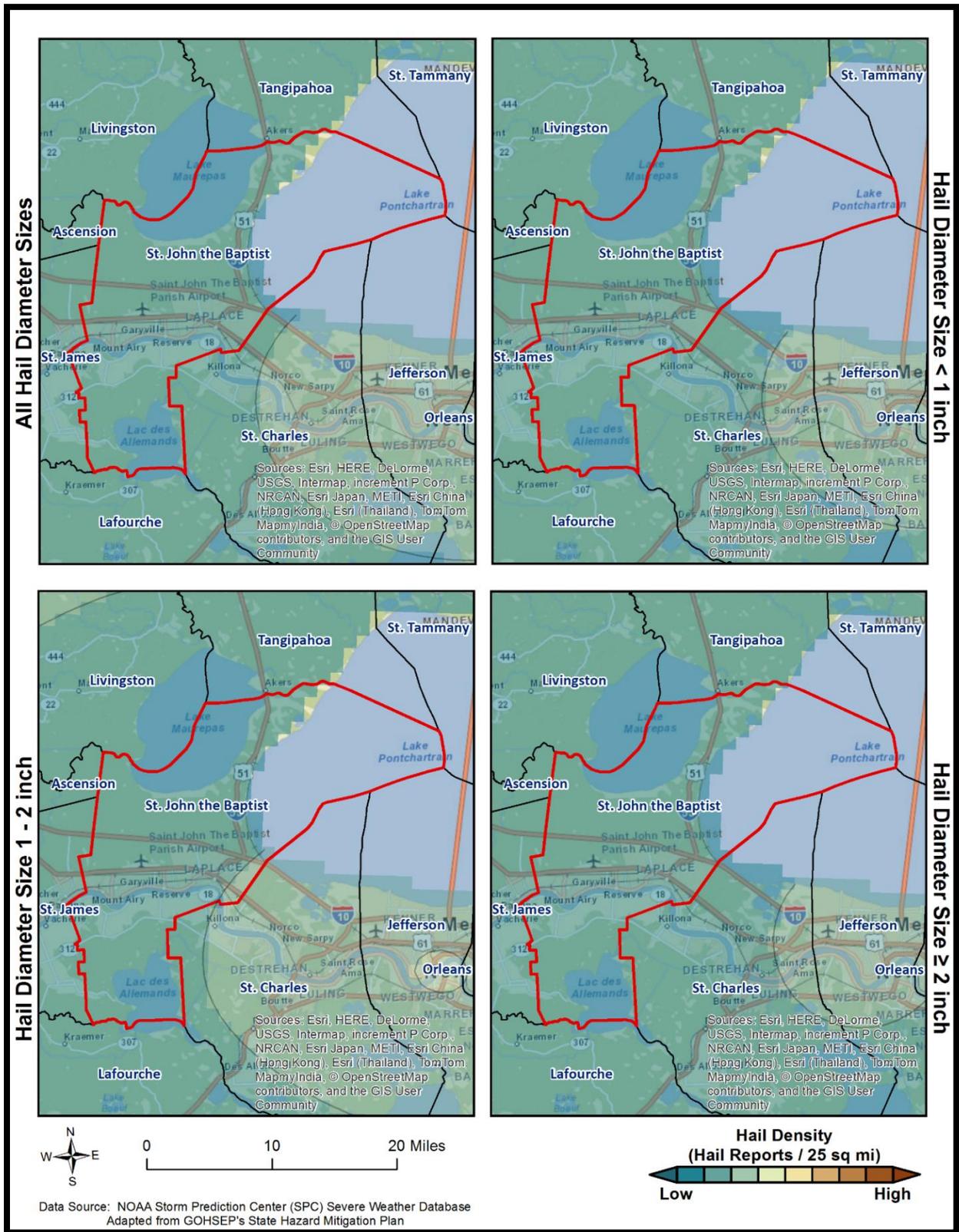


Figure 2-15: Density of Hailstorms by Diameter from 1950-1964  
(Source: State of Louisiana Hazard Mitigation Plan 2014)

### Frequency

The annual probability of occurrence for hail events in St. John the Baptist is calculated at 4%.

### Estimated Potential Losses

According to the SHELDUS database, property damage due to hailstorms in St. John the Baptist Parish has totaled approximately \$27,674 since 1989. A list of total damages by event can be found in [Table 2-30](#). To estimate the potential losses of a severe weather event on an annual basis, the total damages recorded for hailstorms was divided by the total number of years of available hailstorm data in SHELDUS (1960 – 2014). This provides an annual estimated potential loss of \$1,107. The following table provides an estimate of potential property losses for St. John the Baptist Parish:

*Table 2-30: Property Damage Caused by Hailstorms in St. John the Baptist Parish  
(Source: SHELDUS)*

Date	Property Damage
June 1992	\$27,674

*Table 2-31: Estimated Annual Property Losses in St. John the Baptist Parish from Hailstorms*

Estimated Annual Potential Losses from Hailstorms for St. John the Baptist Parish
\$1,107

The parish has suffered no deaths or injuries due to hailstorms from 1989 – 2014.

### Vulnerability

See Appendix C for parish buildings that are susceptible to hailstorms.

## High Winds

### Location

Because high winds are a climatological based hazard, the entire planning area for St. John the Baptist Parish is equally at risk for high winds.

### Previous Occurrences / Extents

The SHELDUS database reports a total of 24 thunderstorm related wind events occurring within the boundaries of St. John the Baptist Parish between the years of 1989-2014. The significant thunderstorm related wind events experienced in St. John the Baptist Parish have ranged in wind speed from 60 mph to 75 mph. St. John the Baptist Parish can expect to receive winds up to 75 mph for future high wind events.

*Table 2-32: Previous Occurrences for Thunderstorm High Wind Events*

Location	Date	Recorded Wind Speeds (mph)	Property Damage	Crop Damage
EDGARD	March 26, 2009	75	\$40,000	\$0
LAPLACE	April 2, 2009	60	\$0	\$0
GARYVILLE	March 29, 2011	70	\$15,000	\$0
LAPLACE	April 4, 2011	69	\$5,000	\$0
LAPLACE	April 4, 2011	63	\$1,000	\$0
MT AIRY	June 29, 2011	69	\$5,000	\$0
FRENIER	May 10, 2013	60	\$0	\$0
LAPLACE	June 23, 2014	60	\$10,000	\$0
LAPLACE	July 2, 2014	60	\$20,000	\$0
LAPLACE	July 18, 2014	60	\$10,000	\$0

### Frequency

High winds are a fairly common occurrence within St. John the Baptist Parish, with an annual chance of occurrence calculated at 96%.

### Estimated Potential Losses

Since 1989, there have been 24 significant wind events that have resulted in property damages according to the SHELDUS database. The total property damages associated with those storms have totaled \$479,478. To estimate the potential losses of a wind event on an annual basis, the total damages recorded for wind events was divided by the total number of years of wind data available in SHELDUS (1989 – 2014). This provides an annual estimated potential loss of \$19,179. The table on the following page provides an estimate of potential property losses for St. John the Baptist Parish:

*Table 2-33: Estimated Annual Property Losses in St. John the Baptist Parish Resulting from Wind Damage*

<b>Estimated Annual Potential Losses from Thunderstorm Winds for St. John the Baptist Parish</b>
\$19,179

There have been no reported injuries or fatalities as a result of a wind event over the 25-year record.

#### Vulnerability

See appendix C for parish buildings that are susceptible to high winds.

## Lightning

### Location

Like hail and high winds, lightning is a climatological based hazard and has the same probability of occurring throughout the entire planning area for St. John the Baptist Parish.

### Previous Occurrences / Extent

The SHELDUS database reports one lightning event occurring within the boundaries of St. John the Baptist Parish between the years of 1989-2014. The SHELDUS database only records lightning events that cause death, injuries, crop damage, and/or property damage, so these numbers do not accurately reflect the number of lightning events in St. John the Baptist Parish, which occur on a nearly monthly basis. The planning area can expect to have a lightning density of 11-12 flashes per square mile per year per *Figure 2-16*. The table below provides an overview of significant lightning strikes over the last twenty-five years:

*Table 2-34: Previous Occurrences of Significant Lightning Strikes in St. John the Baptist Parish, 2009-2014  
(Source: NCDC and SHELDUS)*

Location	Date	Summary	Property Damage
EDGARD	June 23, 1998	Lightning struck a barge on the Mississippi River, causing 1 fatality.	\$0

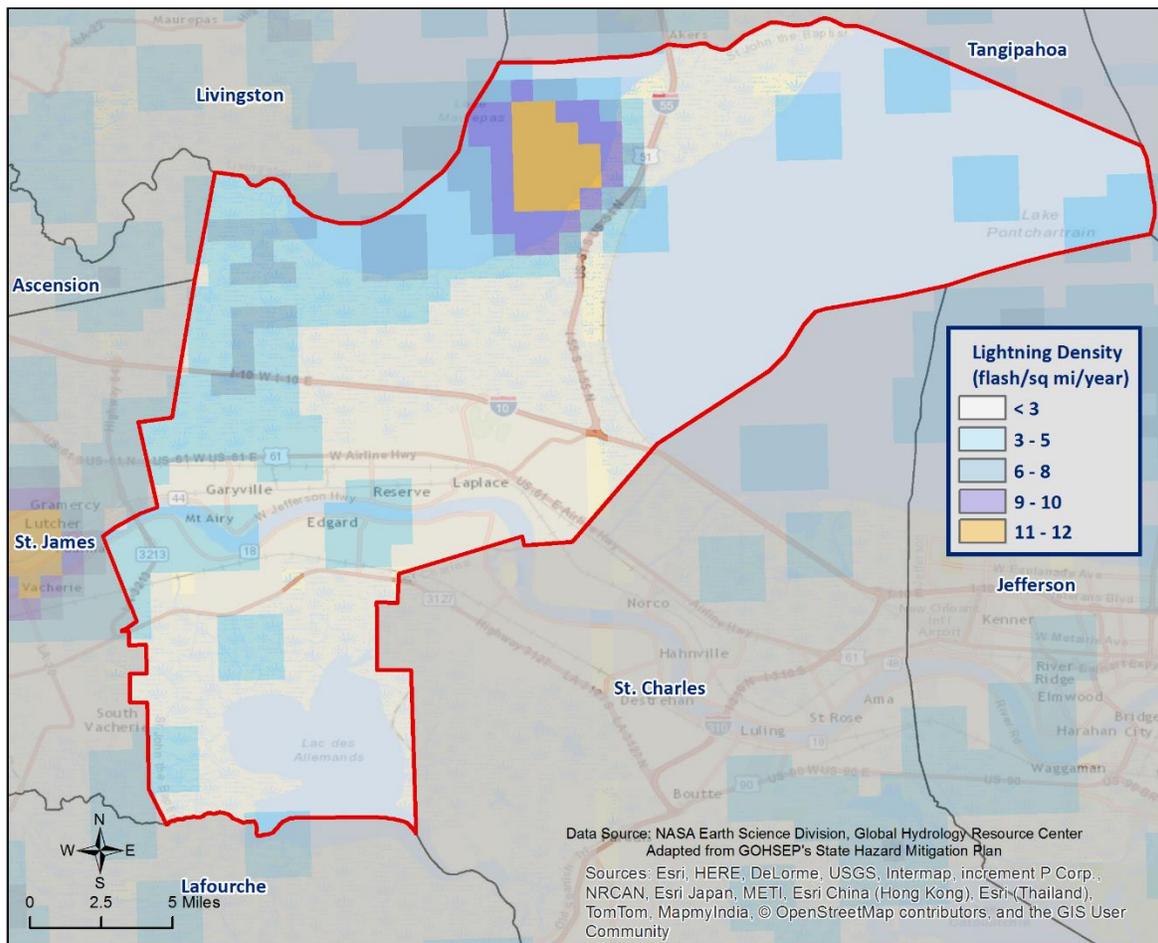


Figure 2-16: Lightning Density Reports for St. John the Baptist Parish

### Frequency

Lightning can strike anywhere and is produced by every thunderstorm, so the chance of lightning occurring in St. John the Baptist Parish is high. However, lightning that meets the definition used by SHELDUS and the NCDC that actually results in damages to property and injury or death to people is a less likely event. One lightning event has caused property damages or injuries over the last 25 years, establishing an annual probability of 4%.

### Estimated Potential Losses

Since 1989, there has been one significant lightning strike. This strike did not cause any property damage, but it did cause one fatality when the lightning struck a barge along the Mississippi River.

### Vulnerability

See Appendix C for parish building exposure to lightning hazards.

## Tornadoes

Tornadoes (also called twisters or cyclones) are rapidly rotating funnels of wind extending between storm clouds and the ground. For their size, tornadoes are the most severe storms, and 70% of the world's reported tornadoes occur within the continental United States, making them one of the most significant hazards Americans face. Tornadoes and waterspouts form during severe weather events, such as thunderstorms and hurricanes, when cold air overrides a layer of warm air, causing the warm air to rise rapidly. This usually results in a counterclockwise direction in the northern hemisphere. The updraft of air in tornadoes always rotates because of wind shear (differing speeds of moving air at various heights), and it can rotate in either a clockwise or counterclockwise direction; clockwise rotations (in the northern hemisphere) will sustain the system, at least until other forces cause it to die seconds to minutes later.

Since February 1, 2007, the Enhanced Fujita (EF) Scale has been used to classify tornado intensity. The EF Scale classifies tornadoes based on their damage pattern rather than wind speed; wind speed is then derived and estimated. This contrasts with the Saffir-Simpson scale used for hurricane classification, which is based on measured wind speed. *Table 2-35* shows the EF scale in comparison with the old Fujita (F) Scale, which was used prior to February 1, 2007. When discussing past tornadoes, the scale used at the time of the hazard is used. Damage and adjustment between scales can be made using the following tables.

*Table 2-35: Comparison of the Enhanced Fujita (EF) Scale to the Fujita (F) Scale*

Wind Speed (mph)	Enhanced Fujita Scale					
	EF0	EF1	EF2	EF3	EF4	EF5
	65-85	86-110	111-135	136-165	166-200	>200
	Fujita Scale					
	F0	F1	F2	F3	F4	F5
<73	73-112	113-157	158-206	207-260	>261	

*Table 2-36: Fujita and Enhanced Fujita Tornado Damage Scale*

Scale	Typical Damage
F0/EF0	Light damage. Some damage to chimneys; branches broken off trees; shallow-rooted trees pushed over; sign boards damaged.
F1/EF1	Moderate damage. Peels surface off roofs; mobile homes pushed off foundations or overturned; moving autos blown off roads.
F2/EF2	Considerable damage. Roofs torn off frame houses; mobile homes demolished; boxcars overturned; light-object missiles generated; cars lifted off ground.
F3/EF3	Severe damage. Roofs and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars lifted off the ground and thrown.
F4/EF4	Devastating damage. Well-constructed houses leveled; structures with weak foundations blown away some distance; cars thrown and large missiles generated.
F5/EF5	Incredible damage. Strong frame houses leveled off foundations and swept away; automobile-sized missiles fly through the air in excess of 100 meters (109 yards); trees debarked; incredible phenomena will occur.

The NWS has the ability to issue advisory messages based on forecasts and observations. The following are the advisory messages that may be issued with definitions of each:

- *Tornado Watch:* Issued to alert people to the possibility of a tornado developing in the area. A tornado has not been spotted but the conditions are favorable for tornadoes to occur.
- *Tornado Warning:* Issued when a tornado has been spotted or when Doppler radar identifies a distinctive “hook-shaped” area within a thunderstorm line.

Structures within the direct path of a tornado vortex are often reduced to rubble. Structures adjacent to the tornado’s path are often severely damaged by high winds flowing into the tornado vortex, known as inflow winds. It is here, adjacent to the tornado’s path, that the building type and construction techniques are critical to the structure’s survival. Although tornadoes strike at random, making all buildings vulnerable, mobile homes, homes with crawlspaces, and buildings with large spans are more likely to suffer damage.

The major health hazard from tornadoes is physical injury from flying debris, or being in a collapsed building or mobile home. Within a building, flying debris or missiles are generally stopped by interior walls. However, if a building has no partitions, any glass, brick, or other debris blown into the interior is life threatening. Following a tornado, damaged buildings are a potential health hazard due to instability, electrical system damage, and gas leaks. Sewage and water lines may also be damaged.

Peak tornado activity in Louisiana occurs during the spring, as it does in the rest of the United States. Nearly one-third of observed tornadoes in the United States occur during April. About half of those in Louisiana, including many of the strongest, occur between March and June. Fall and winter tornadoes are less frequent, but the distribution of tornadoes throughout the year is more uniform in Louisiana than in locations farther north.

#### *Location*

Because tornadoes are a climatological based hazard, the entire planning area for St. John the Baptist Parish is equally at risk for tornadoes.

#### *Previous Occurrences / Extent*

SHELDUS reports a total of six tornadoes or waterspouts occurring within the boundaries of St. John the Baptist Parish between the years of 1989-2014. The tornadoes experienced in St. John the Baptist Parish have ranged from EF0 to EF1 on the EF scale, and ranged from F0 to F4 on the F scale. The worst case scenario St. John the Baptist Parish can expect in the future is an EF5 tornado.

The tornado that caused the most damage to property was also one of the largest tornadoes ever recorded in southeast Louisiana. The F4 tornado occurred on December 6, 1983 and caused in excess of

\$25 million worth of damage. The tornado that resulted in the most injuries and fatalities was an F3 tornado that occurred on August 25, 1992, resulting in 32 injuries and two deaths.

*Table 2-37: Historical Tornadoes in St. John the Baptist Parish with Locations from 1989-2014*

Date	Impacts	Property Damage	Location	Magnitude
September 2, 1990	0.5 mile path with a width of 30 yards	\$89	PARISH-WIDE	F0
August 25, 1992	9 mile path with a width of 150 yards.	\$20,111,429	PARISH-WIDE	F3
June 30, 2003	0.2 mile path with a width of 40 yards. Destroyed several buildings at a private school and approximately 20 trailers.	\$2,532,141	RESERVE	F1
May 15, 2010	0.06 mile path with a width of 20 yards. Damaged a mobile home near Lucy.	\$10,683	LUCY	EFO
March 29, 2011	0.08 mile path with a width of 50 yards. Downed large limbs and damaged the corner of a roof.	\$10,356	TIGERVILLE	EFO
May 28, 2014	2.55 mile path with a width of 75 yards. Damaged a door at a firehouse and downed several trees.	\$0	LIONS	EF1

Since 2010, the year in which the last update to this hazard mitigation plan was written, St. John the Baptist Parish has had two tornadoes touch down. The following is a brief synopsis of these events:

#### [March 29, 2011 – EFO Tornado in Tigerville](#)

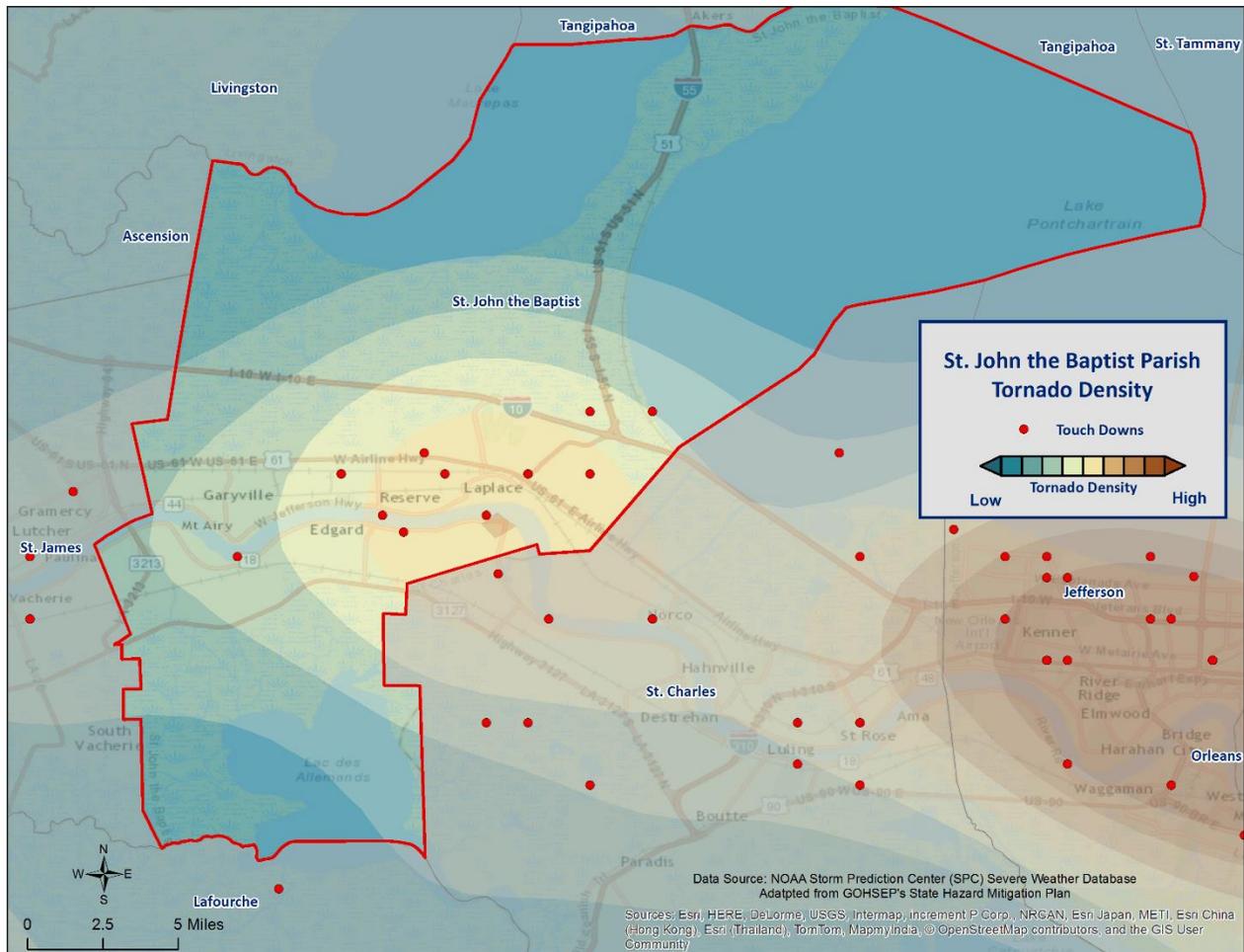
Upper level disturbances moving over a very warm and unstable air mass produced numerous reports of severe weather in the area. An EFO tornado touched down in the Edgard area downing large limbs in its path. Shingles on the corner of a roof were removed due to the high winds. Maximum winds were estimated at 65 mph.

#### [May 28, 2014 – EF1 Tornado in Lions](#)

An upper low moving across Oklahoma and Arkansas aided in the development of several rounds of thunderstorms in Louisiana. An EF1 tornado formed from one of these storms, touching down west of Edgard and moving east towards Garyville. In the Edgard area, a large firehouse door was damaged and several trees were downed. In the eastern bank areas, the tornado passed across an oil refinery, causing minor damage. Maximum winds were estimated at 105 mph.

### Frequency / Probability

Tornadoes are a sporadic occurrence within St. John the Baptist Parish, with an annual chance of occurrence calculated at 24% based on the records for the past 25 years (1989-2014). *Figure 2-177* displays the density of tornado touch downs in St. John the Baptist Parish and neighboring parishes.



*Figure 2-17: Location and Density of Tornadoes to Touch Down in St. John the Baptist Parish (Source: NOAA/SPC Severe Weather Database)*

### Estimated Potential Losses

According to the SHELUDS database, there have been six tornadoes that have caused some level of property damage. The total damage from the actual claims for property is \$22,664,699, with an average cost of \$3,777,450 per tornado strike. When annualizing the total cost over the 25-year record, total annual losses based on tornadoes are estimated to be \$906,588. *Table 2-38* provides an annual estimate of potential losses for St. John the Baptist Parish.

*Table 2-38: Estimated Annual Losses for Tornadoes in St. John the Baptist Parish*

St. John the Baptist Parish
\$906,588

*Table 2-39* presents an analysis of building exposure types that are susceptible to tornadoes by general occupancy type for St. John the Baptist Parish, along with the percentage of building stock that are mobile homes.

*Table 2-39: Building Exposure by General Occupancy Type for Tornadoes in St. John the Baptist Parish  
(Source: FEMA's Hazus 2.2)*

Building Exposure by General Occupancy Type for Tornadoes Exposure Types (\$1,000)							
Residential	Commercial	Industrial	Agricultural	Religion	Government	Education	Mobile Homes (%)
3,557,675	472,112	105,143	5,338	57,436	27,086	55,987	11.7%

The Parish has suffered through a total of two days in which tornadoes or waterspouts have accounted for 36 injuries and two fatalities during this 25 year period (*Table 2-40*). The average number of injuries per event for St. John the Baptist Parish is six, with an average of 1.44 per year for the 25-year period. The average number of fatalities per event is 0.33, with an average of 0.08 per year for the 25-year period.

*Table 2-40: Tornadoes in St. John the Baptist Parish by Magnitude that Caused Injuries or Deaths*

Date	Magnitude	Deaths	Injuries
August 25, 1992	F3	2	32
June 30, 2003	F1	0	4

In assessing the overall risk to population, the most vulnerable population throughout the parish are those residing in manufacturing housing. Approximately 11.7% of all housing in St. John the Baptist Parish consists of manufactured housing. Based on location data collected by the parish, there are approximately 2,000 known locations of manufactured homes. The main concentration of these homes are along the north and south banks of the Mississippi River. Two small clusters of manufactured homes are located along the western banks of Lake Pontchartrain and Lac des Allemands. The location and density of manufactured housing can be seen in *Figure 2-18*.

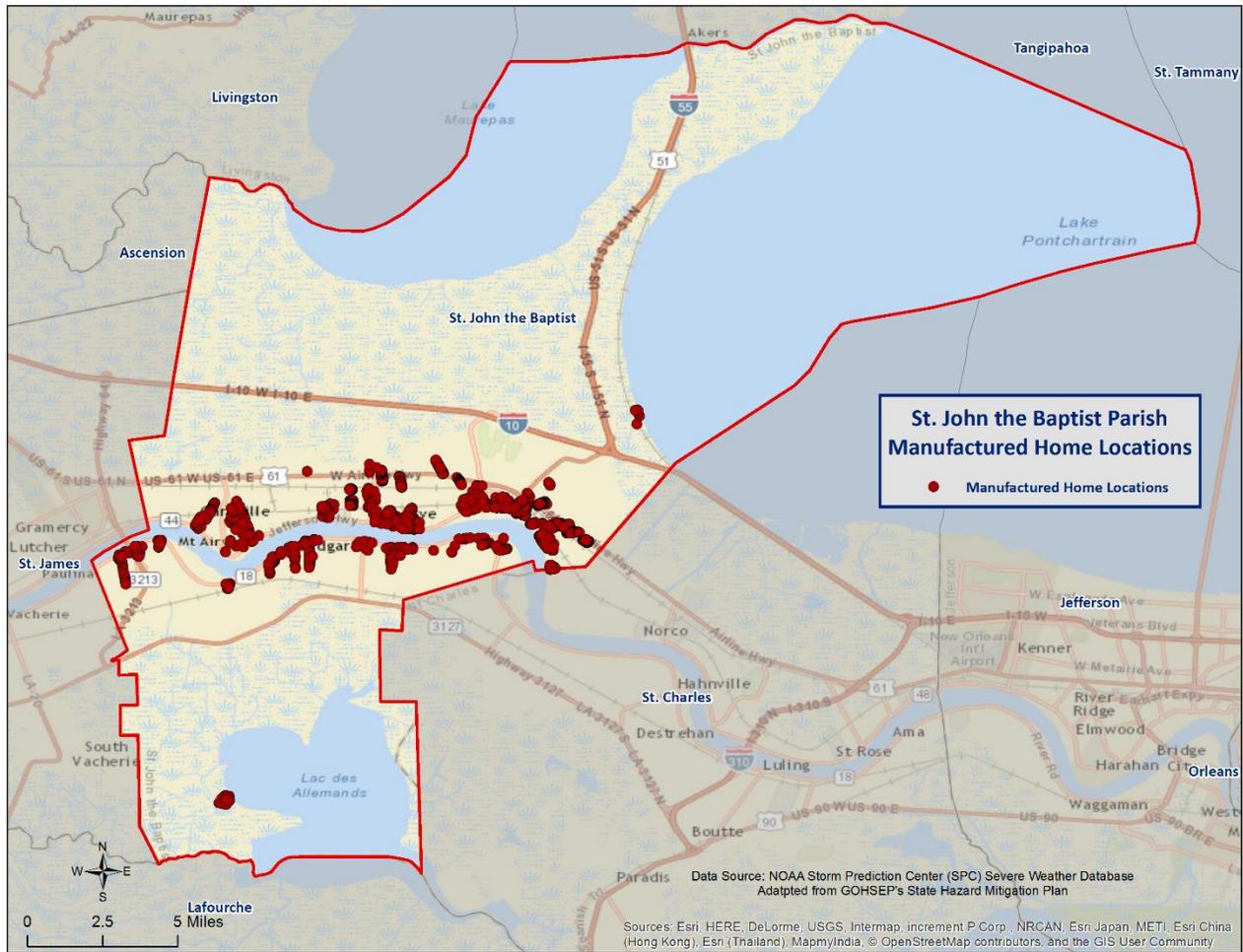


Figure 2-18: Location and Density of Manufactured Housing throughout St. John the Baptist Parish

*Vulnerability*

See Appendix C for parish building exposure to tornado hazards.

## Tropical Cyclones

Tropical cyclones are among the worst hazards Louisiana faces. These spinning, low-pressure air masses draw surface air into their centers and attain strength ranging from weak tropical waves to the most intense hurricanes. Usually, these storms begin as clusters of oceanic thunderstorms off the western coast of Africa, moving westward in the trade wind flow. The spinning of these thunderstorm clusters begins because of the formation of low pressure in a perturbation in the westerly motion of the storms associated with differential impacts of the Earth's rotation. The west-moving, counterclockwise-spinning collection of storms, now called a tropical disturbance, may then gather strength as it draws humid air toward its low-pressure center. This results in the formation of a tropical depression (defined when the maximum sustained surface wind speed is 38 mph or less), then a tropical storm (when the maximum sustained surface wind ranges from 39 mph to 73 mph), and finally a hurricane (when the maximum sustained surface wind speeds exceed 73 mph). *Table 2-41* presents the Saffir-Simpson Hurricane Wind Scale, which categorizes tropical cyclones based on sustained winds.

*Table 2-41: Saffir-Simpson Hurricane Wind Scale*

Saffir-Simpson Hurricane Wind Scale			
Category	Sustained Winds	Pressure	Types of Damage Due to Winds
Tropical Depression	<39 mph	N/A	N/A
Tropical Storm	39-73 mph	N/A	N/A
1	74-95 mph	>14.2 psi	Very dangerous winds will produce some damage. Well-constructed frame homes could have damage to roof, shingles, vinyl siding, and gutters. Large branches of trees will snap and shallow-rooted trees may be toppled, especially after the soil becomes waterlogged. Extensive damage to power lines and poles likely will result in power outages that could last several days.
2	96-110 mph	14-14.2 psi	Extremely dangerous winds will cause extensive damage. Well-constructed frame homes could sustain major roof and siding damage. Many shallow-rooted trees will be snapped or uprooted, especially after the soil becomes waterlogged, and block numerous roads. Near total power loss is expected, with outages that could last from several days to weeks.
3	111-129 mph	13.7 -14 psi	Devastating damage will occur. Well-built framed homes may incur major damage or removal of roof decking and gable ends. Many trees will be snapped or uprooted, especially after the soil becomes waterlogged, blocking numerous roads. Electricity and water may be unavailable for several days to weeks after the storm passes.
4	130-156 mph	13.3-13.7 psi	Catastrophic damage will occur. Well-built framed homes can sustain severe damage with loss of most of the roof structure and/or some exterior walls. Most trees will be snapped or uprooted, especially after the soil becomes waterlogged, and power poles downed. Fallen trees and power poles will isolate residential areas. Power outages will last weeks to possibly months. Most of the area will be uninhabitable for weeks or months.
5	157 mph or higher	<13.7 psi	Catastrophic damage will occur. A high percentage of framed homes will be destroyed, with total roof failure and wall collapse. Fallen trees and power poles will isolate residential areas. Power outages will last for weeks to possibly months. Most of the area will be uninhabitable for weeks to months.

Many associated hazards can occur during a hurricane, including heavy rains, flooding, high winds, and tornadoes. A general rule of thumb in coastal Louisiana is that the number of inches of rainfall to be expected from a tropical cyclone is approximately 100 divided by the forward velocity of the storm in mph. For example, a fast-moving storm (20 mph) might be expected to produce five inches of rain while a slow-moving (5 mph) storm could produce totals of around twenty inches of rain. However, no two storms are alike, and such generalizations have limited utility for planning purposes. Hurricane Beulah, which struck Texas in 1967, spawned 115 confirmed tornadoes. In recent years, extensive coastal development has increased the damage amounts from storm surge so much that it has become the greatest natural hazard threat to property and loss of life in the state. Storm surge is a temporary rise in sea level, generally caused by reduced air pressure and strong onshore winds associated with a storm system near the coast. Although storm surge can technically occur at any time of the year in Louisiana, surges caused by hurricanes can be particularly deadly and destructive. Such storm surge events are often accompanied by large, destructive waves (exceeding ten meters in some places) that can inflict a high number of fatalities and economic losses. In 2005, Hurricane Katrina clearly demonstrated the destructive potential of this hazard, as it produced the highest modern-day storm surge levels in the state of Louisiana, reaching up to 18.7 feet near Alluvial City in St. Bernard Parish.

Property can be damaged by the various forces that accompany a tropical storm. High winds can directly impact structures in three ways: wind forces, flying debris, and pressure. By itself, the force of the wind can knock over trees, break tree limbs, and destroy loose items such as television antennas and power lines. As winds increase, so does the pressure against stationary objects. Pressure against a wall rises with the square of the wind speed. For some structures, this force is enough to cause failure. The potential for damage to structures is increased when debris breaks the building “envelope” and allows the wind pressures to impact all surfaces (the building envelope includes all surfaces that make up the barrier between the indoors and the outdoors, such as the walls, foundation, doors, windows, and roof). Mobile home and buildings in need of maintenance are most subject to wind damage. High winds contribute to the formation of larger sized waves. Extended pounding by waves can demolish any poorly or improperly designed structure. Large waves also erode sand beaches, roads, and foundations, which can lead to building collapse.

Nine out of ten deaths during hurricanes are caused by storm surge flooding. Falling tree limbs and flying debris caused by high winds have the ability to cause injury or death. Downed trees and damaged buildings are a potential health hazard due to possible instability, electrical system damage, broken pipelines, chemical releases, and gas leaks. Sewage and water lines may also be damaged. Salt water and fresh water intrusions from storm surge may cause animals, such as snakes, to move into areas occupied by humans.

#### *Location*

Hurricanes are the single biggest threat to all of south Louisiana. With any single hurricane having the potential to devastate multiple parishes at once, the risk of a tropical cyclone has the probability of impacting anywhere within the planning area for St. John the Baptist Parish.

#### *Previous Occurrences / Extent*

The central Gulf of Mexico coastline is among the most hurricane-prone locations in the United States, and hurricanes can affect every part of the state. The SHELDUS database reports a total of 12 tropical cyclone events occurring within the boundaries of St. John the Baptist Parish between the years 2002-2014 (*Table 2-42*). The tropical cyclone events experienced in St. John the Baptist Parish include depressions, storms, and hurricanes. As a worst case scenario, St. John the Baptist Parish can expect to experience hurricanes at the Category 3 level in the future.

Table 2-42: Historical Tropical Cyclone Events in St. John the Baptist Parish from 2002-2014  
(Source: SHEL DUS)

Date	Name	Storm Type While Impacting Parish Name Parish
August 4, 2002	Bertha	Tropical Storm
September 25, 2002	Isidore	Tropical Storm
October 2, 2002	Lili	Hurricane – Cat 1
June 30, 2003	Bill	Tropical Storm
September 15, 2004	Ivan	Tropical Storm
October 9, 2004	Matthew	Tropical Depression
July 5, 2005	Cindy	Hurricane – Cat 1
August 28, 2005	Katrina	Hurricane – Cat 3
September 23, 2005	Rita	Tropical Storm
September 1, 2008	Gustav	Tropical Storm
September 11, 2008	Ike	Tropical Storm
August 28, 2012	Isaac	Tropical Storm

#### Hurricane Betsy (1965)

Hurricane Betsy made landfall in September of 1965 as a Category 3 hurricane and caused extensive damage in St. John the Baptist Parish. Winds were measured at up to 115 mph within the parish. Hurricane Betsy caused extensive damage to property and agriculture. Approximately \$25,000 worth of cattle were lost, and an estimated 250,000 eggs were destroyed. Over 14,000 people took refuge in shelters during the storm.

#### Hurricane Andrew (1992)

Hurricane Andrew came ashore in Louisiana on August 26, 1992, as a Category 3 storm. In St. John the Baptist Parish, Hurricane Andrew produced wind speeds of approximately 75 mph. Virtually every road in the parish was covered with debris. Approximately 8,000 customers were without power because of Hurricane Andrew. Fallen trees, power lines, and high water blocked many streets and roads in the parish.



Figure 2-19: Hurricane Andrew Path and Satellite Image taken on 25 August 1992

#### [Tropical Storm Allison \(2001\)](#)

In June 2001, Tropical Storm Allison made landfall in the state of Texas and moved across Louisiana, causing extensive flood damage. Tropical Storm Allison produced more than 20 inches of rain within St. John the Baptist Parish. Numerous automobile accidents occurred, and many roads were flooded in the parish.

#### [Tropical Storm Isidore \(2002\)](#)

Tropical Storm Isidore made landfall at Grand Isle, Louisiana on September 27, 2002. Tropical Storm Isidore had a large circulation with high force winds extending several hundreds of miles from its center. This caused significant storm surge over a large area specifically, on Lake Pontchartrain, where storm surges of 4 to 5 feet above normal were measured. Low lying areas, roadways, and some non-elevated structures on the lake were flooded. Rain bands associated with Tropical Storm Isidore produced heavy rainfall in a wide area prior to and shortly after landfall. Rainfall totals of 10 to 15 inches were common across southeast Louisiana. Most areas recorded sustained winds of 35 to 45 mph with some gusts to 50 mph in squalls. The Louisiana Office of Emergency Preparedness reported approximately 2,500 people sought refuge in approximately 40 shelters throughout the state.

#### [Hurricane Lili \(2002\)](#)

In October 2002, Hurricane Lili made landfall along the western shore of Vermilion Bay in south central Louisiana as a Category 2 hurricane. During the day, the hurricane made steady progress northward and by 2pm, Lili was downgraded to a tropical storm. More than 40 roads were closed due to high water in St. John the Baptist Parish. Approximately 10,700 customers were without power, and downed trees and power lines were widespread through the parish. Very little, if any, structural damage was reported due to Hurricane Lili.

#### [Hurricane Katrina \(2005\)](#)

Hurricane Katrina was one of the strongest and most destructive hurricanes on record to impact the coast of the United States. The National Hurricane Center ranked Katrina as the costliest storm (both before and after adjusting for inflation) and the third deadliest in the U.S. since 1851. The hurricane initially made landfall in Plaquemines Parish on August 29, 2005, as a Category 3 storm and continued on a north northeast track with a second landfall occurring near the Louisiana-Mississippi border.

Emergency operations were conducted throughout St. John the Baptist Parish. Power and communications were down, emergency traffic was heavy, pump motors at lift stations were flooded, and roadways were blocked by debris. The public water supply for the parish was also damaged during the storm, causing the parish to issue a boil order.

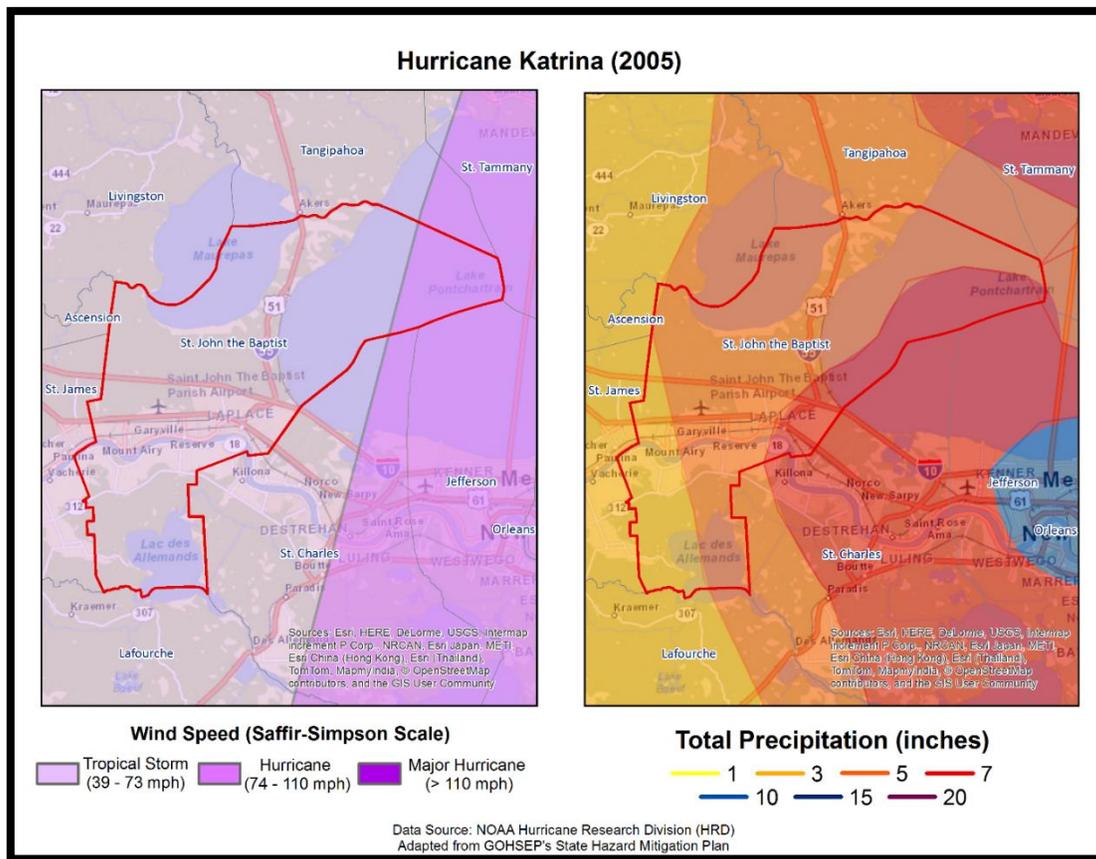


Figure 2-20: Wind Speed and Precipitation Totals in St. John the Baptist Parish for Hurricane Katrina

### Hurricane Rita (2005)

While Hurricane Katrina and resulting levee failures captured headlines worldwide, lesser known (but just as destructive) Hurricane Rita wreaked havoc on southwestern Louisiana less than a month later. The storm made landfall as a Category 3 hurricane in Cameron Parish. Across southeast Louisiana, the main affect from Hurricane Rita was the substantial storm surge flooding that occurred in low lying communities across coastal areas of southern Terrebonne, southern Lafourche, and southern Jefferson Parishes, where numerous homes and businesses were flooded. Some of the most substantial damage occurred in southern Terrebonne Parish, where storm surge of 5 to 7 feet above normal overtopped or breached local drainage levees, inundating many small communities. Newspaper accounts indicated approximately 10,000 structures were flooded in Terrebonne Parish. Lafitte and other communities in lower Jefferson Parish also suffered extensive storm surge flooding. Storm surge flooding also occurred in areas adjacent to Lake Pontchartrain and Lake Maurepas, with some homes and businesses flooded from Slidell to Mandeville and Madisonville. Approximately 1,500 structures were reported as flooded in Livingston Parish near Lake Maurepas. Repaired levees damaged by Hurricane Katrina in late August were overtopped or breached along the Industrial Canal in New Orleans, resulting in renewed flooding in adjacent portions of New Orleans and St. Bernard Parish. However, the flooding was much more limited in scope than during Hurricane Katrina.

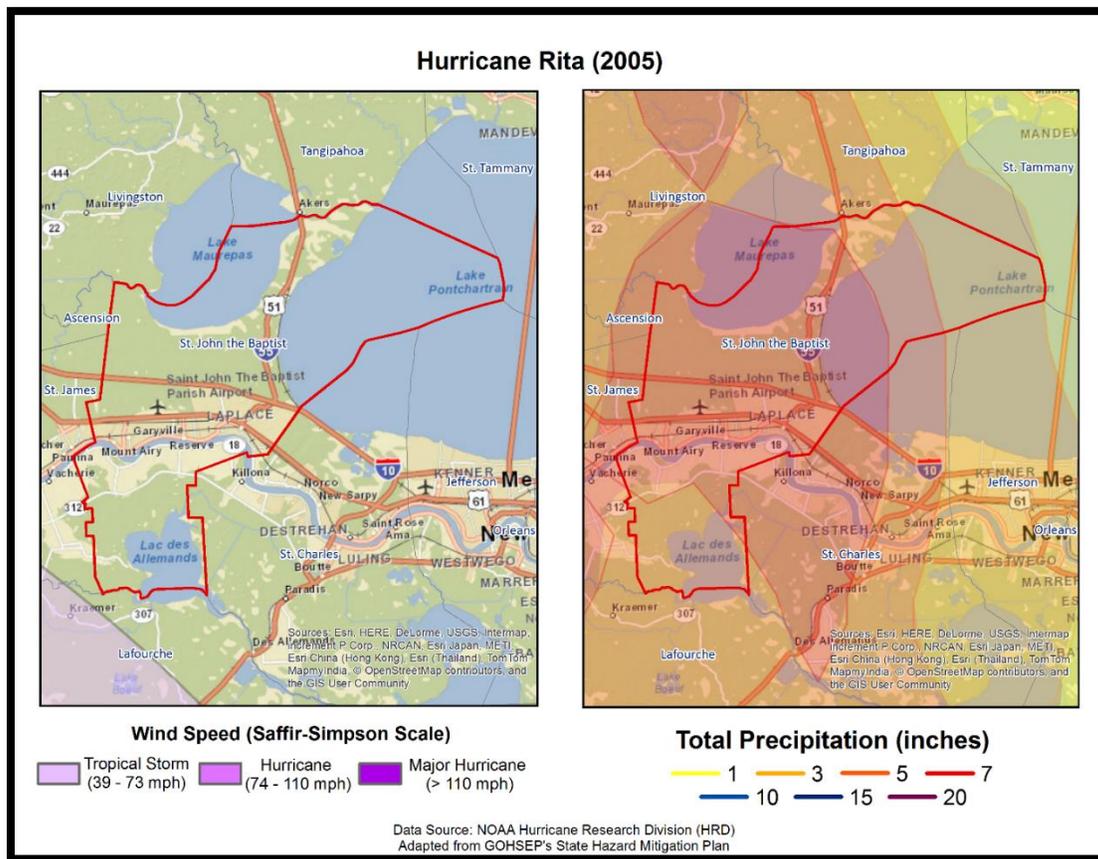


Figure 2-21: Wind Speed and Precipitation Totals in St. John the Baptist Parish for Hurricane Rita

### Hurricane Gustav (2008)

Hurricane Gustav entered the southeast Gulf of Mexico as a major Category 3 hurricane on August 31<sup>st</sup>, 2008, after developing in the Caribbean Sea and moving across western Cuba. Gustav tracked northwestward across the Gulf toward Louisiana and made landfall as a Category 2 hurricane near Cocodrie, Louisiana during the morning of September 1<sup>st</sup>. Gustav continued to move northwest across south Louisiana and weakened to a Category 1 storm over south central Louisiana later that day. The storm diminished to a tropical depression over northwestern Louisiana on September 2<sup>nd</sup>.

The highest wind gust recorded was 117 mph (102 knots) at a USGS site at the Houma Navigational Canal and at the Pilot Station East C-MAN at near the Southwest Pass of the Mississippi River. The highest sustained wind of 91 mph was recorded at the Pilot's Station East C-MAN site. However, due to the failure of equipment at some observation sites during the storm, higher winds may have occurred. The minimum sea level pressure measured was 951.6 millibars at a USGS site at Caillou Lake, southwest of Dulac, and 954.5 millibars at the LUMCON facility near Dulac. Rainfall varied considerably across southeast Louisiana, ranging from around 4 inches to just over 11 inches.

Gustav produced widespread wind damage across southeast Louisiana, especially in the area from Houma and Thibodaux through the greater Baton Rouge area. Hurricane force wind gusts also occurred across the inland areas, including the Baton Rouge area and surrounding parishes. A peak wind gust of 91 mph was recorded at the Baton Rouge (Ryan Field) Airport at 1:12 PM CST. This was only one mph less than the highest wind gust recorded during Hurricane Betsy in 1965. After the storm, the electric utility

company serving most of southeast Louisiana reported 75 to 100 percent of utility customers were without power, in areas ranging from Lafourche and Terrebonne Parishes northwest through the Baton Rouge area to southwest Mississippi and central Louisiana. Considerable damage occurred to many houses and structures as large tree limbs and trees were toppled by the hurricane force winds. Preliminary estimates from the American Red Cross indicated that around 13,000 single family dwellings were damaged by the hurricane in southeast Louisiana, and several thousand more apartments and mobile homes were also damaged. Early estimates from Louisiana Economic Development indicated that Gustav caused at least \$4.5 billion in property damage in Louisiana, including insured and uninsured losses.

Hurricane Gustav’s force driven winds severely damaged and destroyed trees throughout St. John the Baptist Parish. Large volumes of debris due to storm surge and wind were deposited in the parish, causing an extensive clean up. Minor structural damage was sustained by both public and private buildings and facilities.

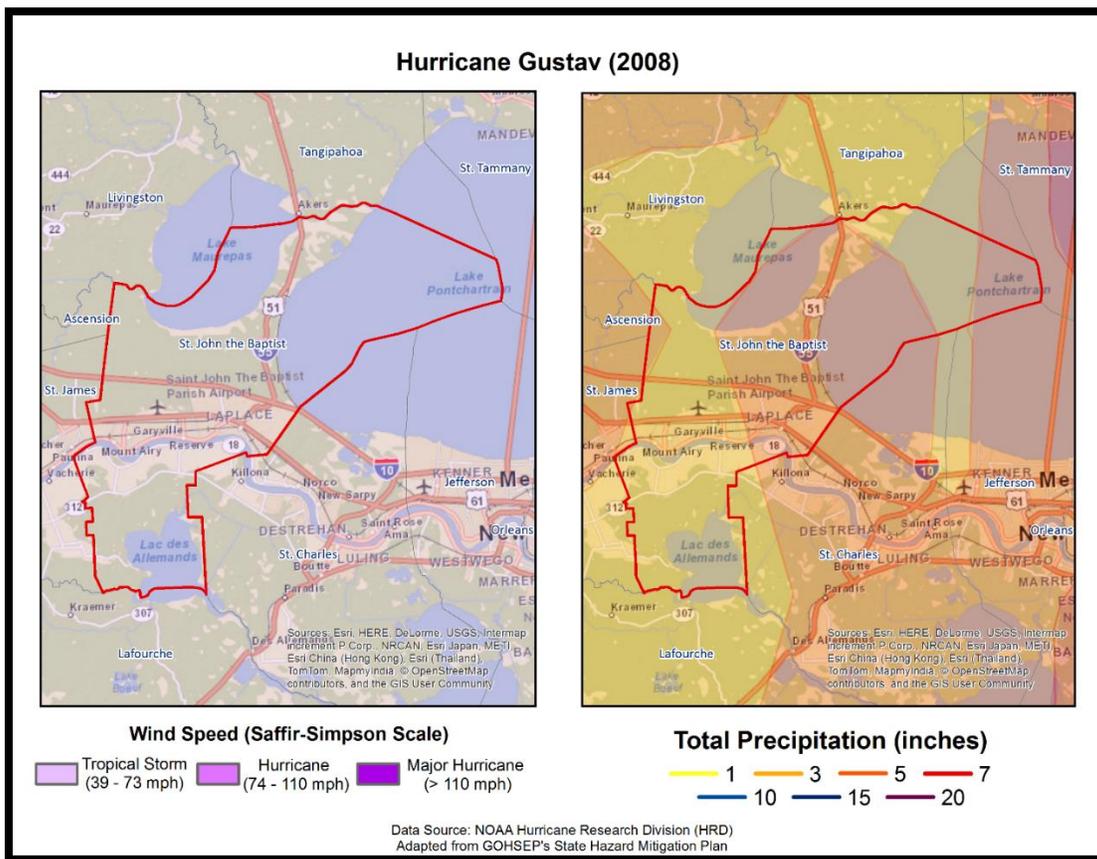


Figure 2-22: Wind Speed and Precipitation Totals in St. John the Baptist Parish for Hurricane Gustav

Hurricane Ike (2008)

Hurricane Ike caused wind damage, storm surge flooding, and tornadoes across southwest Louisiana. Ike made landfall near Galveston, TX early in the morning on September 13th as a strong Category 2 hurricane. Sustained hurricane force winds were confined to extreme western Cameron Parish. The highest winds recorded in southwest Louisiana were at Lake Charles Regional Airport, with sustained winds of 53 mph (46 kts) and gusts of 77 mph (67 kts). The lowest pressure reading occurred at Southland Field near Sulphur, LA, with a low of 994.6 mb. Several tornadoes were reported across southwest Louisiana. The most significant one was near Mamou, where 10-15 homes were damaged, and another home lost its roof. Storm surge was a significant event. Water levels ranged from 14 feet in western Cameron Parish, to 8 feet in St. Mary Parish. This resulted in widespread flooding of the same areas that flooded during Hurricane Rita in 2005. Most of Cameron Parish was under water. Over 3,000 homes were flooded. This extended north into Calcasieu Parish, where another 1,000 homes flooded in Lake Charles, Westlake, and Sulphur. In Vermilion Parish, at least 1,000 homes flooded in Pecan Island, Forked Island, Intracoastal City, and Henry. This extended east into Iberia Parish, where another 1,000 homes flooded south of Highway 14 and Highway 90. In St. Mary Parish, some of the worst flooding occurred in Franklin, where a man-made levee failed, flooding over 450 homes. Maximum storm total rainfall ranged from 6 to 8 inches across Cameron, Calcasieu, and Beaufort Parishes. No fatalities were reported in southwest Louisiana. Total property damages, however, were high. Losses are estimated to be almost \$420 million dollars across southwest Louisiana. Agricultural losses were over \$225 million.

In St. John the Baptist Parish, high winds and rain from Hurricane Ike caused severe damage to trees and vegetation. Large volumes of debris were deposited on parish streets and private property causing an immediate threat to public health and safety.

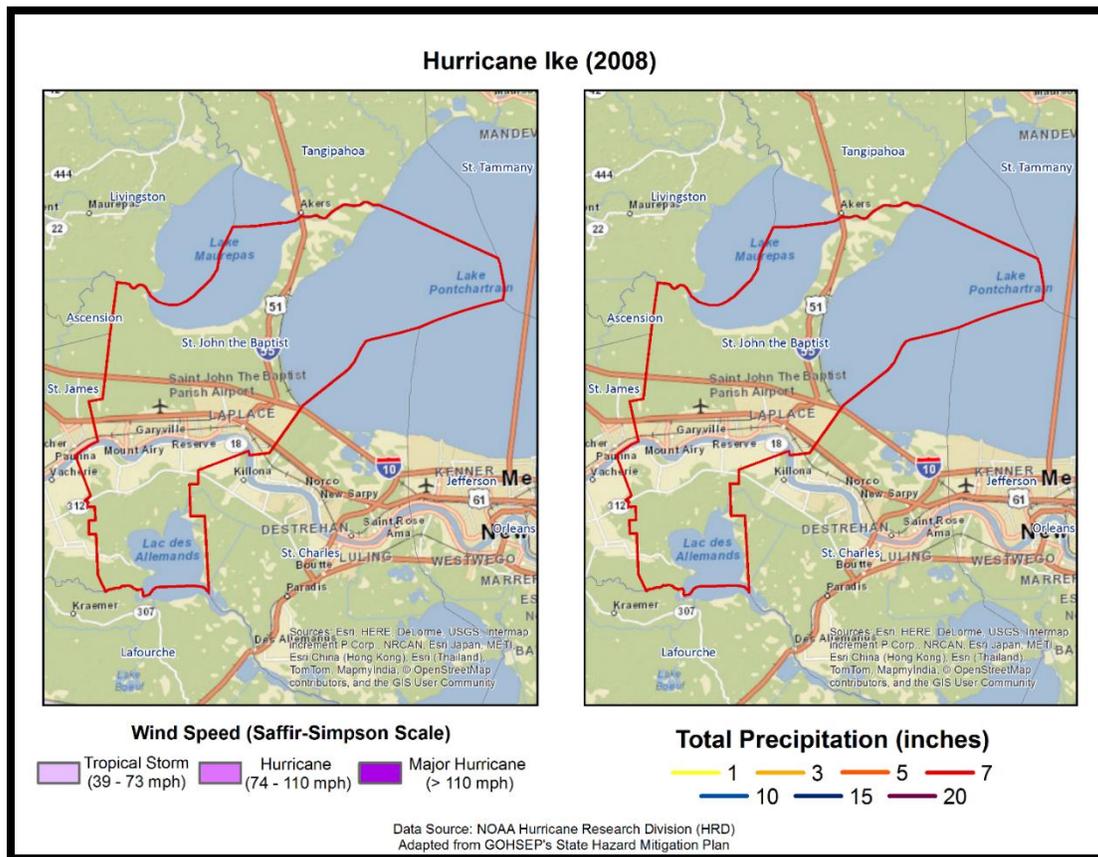


Figure 2-23: Wind Speed and Precipitation Totals in St. John the Baptist Parish for Hurricane Ike

## Hurricane Isaac (2012)

Hurricane Isaac entered the Gulf of Mexico as a tropical storm on August 26, moving northwest after crossing Haiti, Cuba, and the Florida Straits. Isaac strengthened into a hurricane on the morning of the 28th when it was 75 miles south-southeast of the mouth of the Mississippi River. Isaac made its initial landfall in Plaquemines Parish as a Category 1 Hurricane near Southwest Pass of the Mississippi River on the evening of the 28th. A second landfall occurred near Port Fourchon the following morning. The storm weakened to a tropical storm on the afternoon of the 29th about 50 miles west southwest of New Orleans, and weakened further to a tropical depression on the afternoon of the 30th near Monroe, Louisiana.

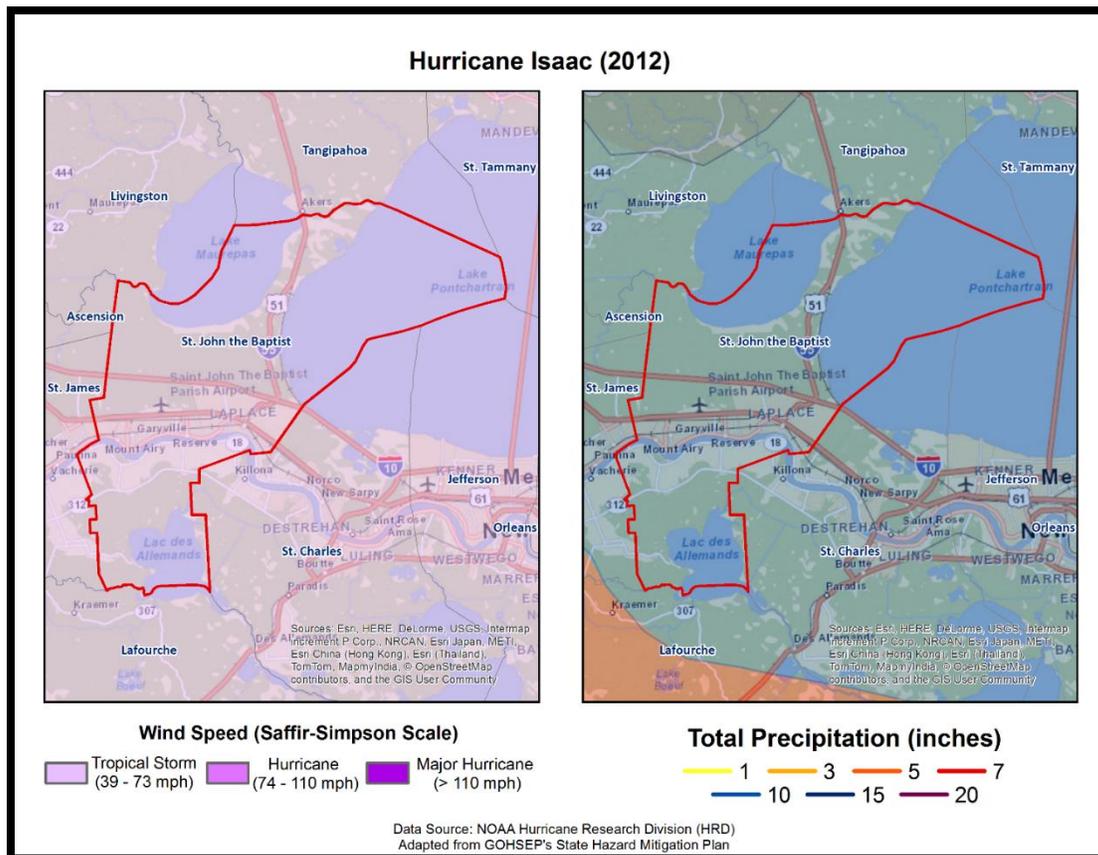


Figure 2-24: Wind Speed and Precipitation Totals in St. John the Baptist Parish for Hurricane Isaac

The highest wind gust recorded on land in Louisiana was 86 mph, or 75 knots, measured on the evening of August 28 by a Texas Tech University portable weather station located near Buras. The maximum sustained winds in Louisiana were 75 mph, or 65 knots, recorded at the same portable weather station near Buras on the evening of August 28. There were several marine observations near the coast that had slightly higher wind readings, but their observation heights were generally 80 ft or higher.

Due to Isaac's very large size, and slow forward speed, tropical storm force winds lasted in excess of 48 hours in many areas of coastal southeast Louisiana. Occasional hurricane gusts of 70 to 85 mph were recorded across southeast Louisiana, especially south of Lake Pontchartrain, during the night of Aug 28th and early on the 29th. Interior areas of southeast Louisiana such as around Baton Rouge and northward experienced tropical storm force winds. Widespread power outages occurred across the area. Local utility companies reported over 700,000 customers were without power at the peak of the storm in southeast

Louisiana. Generally, most of the wind damage was limited to downed trees and power lines, and roof damage caused by wind and debris.

Significant impact also occurred around Lakes Pontchartrain and Maurepas with a storm tide of 5 to 9 feet. Five to ten thousand homes were flooded in low lying areas that border the aforementioned lakes in the following parishes: St. Tammany, Tangipahoa, Livingston, Ascension, St James, and St John the Baptist. LaPlace, in St. John the Baptist Parish, was especially hard hit with over 5,000 homes flooded by storm surge. An additional storm surge fatality occurred in St. Tammany Parish on the morning of the 30th when a 75 year old man drove his car into a storm surge filled ditch. Storm surge flooding also affected areas south and southwest of New Orleans with a storm tide of 4 to 7 feet. Roadways and low lying property were flooded. Local levees around Lafitte and Myrtle Grove were overtopped and/or breached, resulting flooding of numerous houses and property in this area.

Many areas of southeast Louisiana received 8 to 12 inches of rain, with a few locations having 15 inches of rain or more. Maximum storm total rainfall was 20.66 inches at the New Orleans Carrollton gauge on the Mississippi River. Rainfall run-off produced moderate to major flooding on the Tangipahoa, Tchefuncte, Tickfaw, Amite, Pearl, Bogue Chitto, and Bogue Falaya Rivers. Storm surge and high tides restricted outflow of the rivers near the coast and lakes, exacerbating flooding in those areas.

Overall impacts of Hurricane Isaac resulted in at least \$600 million in damages in southeast Louisiana, 3 direct fatalities, and 2 indirect fatalities. Storm surge flooding accounted for the bulk of damage, estimated around \$500 million, and the three direct storm surge fatalities in Louisiana. Winds accounted for a much lesser amount of slightly more than a \$100 million.

On the next page, *Figure 2-25* displays the wind zones that affect St. John the Baptist Parish in relation to critical facilities throughout the Parish.

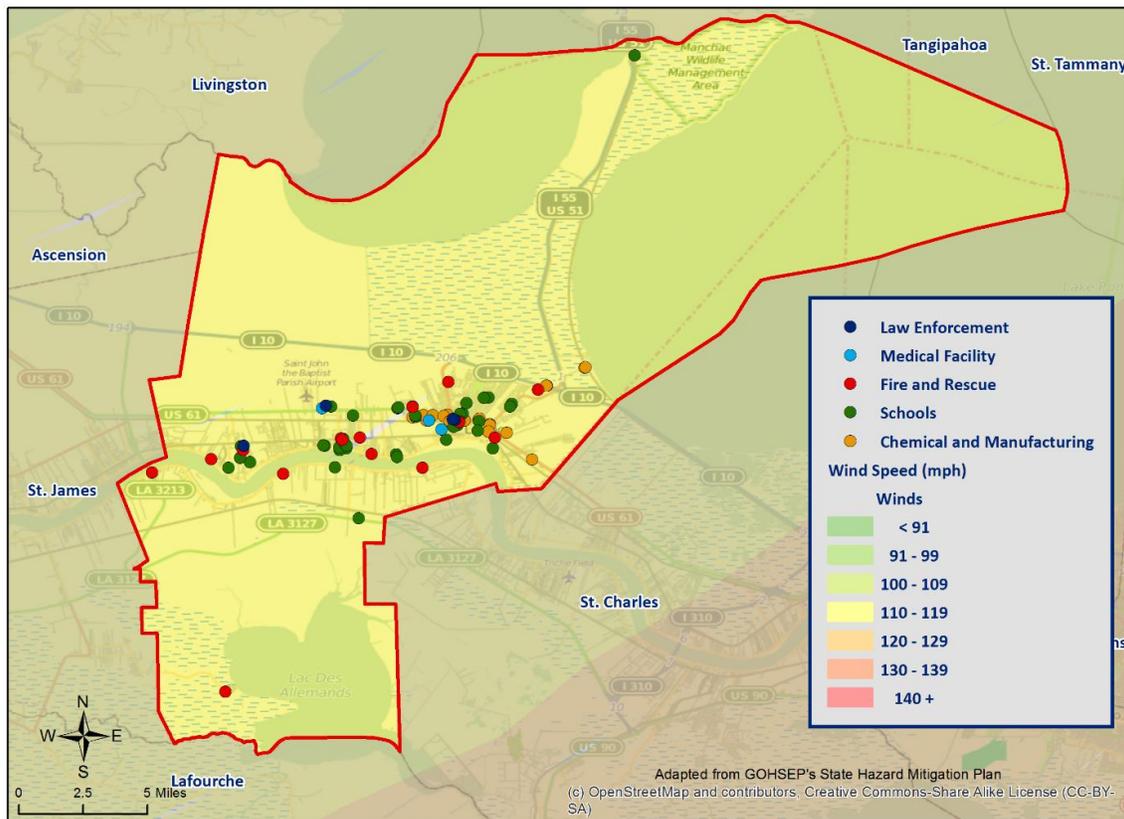


Figure 2-25: Winds Zones for St. John the Baptist Parish in Relation to Critical Facilities

Frequency / Probability

Tropical cyclones are large natural hazard events that regularly impact St. John the Baptist Parish. The annual chance of occurrence for a tropical cyclone occurrence is estimated at 100% for St. John the Baptist parish and its municipalities.

The tropical cyclone season for the Atlantic Basin is from June 1<sup>st</sup> through November 30<sup>th</sup>, with most of the major hurricanes (Saffir-Simpson Categories 3, 4, & 5) occurring between the months of August and October. Based on geographical location alone, St. John the Baptist Parish is highly vulnerable to tropical cyclones. This area has experienced several tropical cyclone events in the past and can expect more in the future.

Estimated Potential Losses

Using Hazus-MH 100-year Hurricane Model, the 100-year hurricane scenario was analyzed to determine losses from this worst-case scenario. Table 2-43 shows the total economic losses that would result from this occurrence.

Table 2-43: Total Estimated Losses for a 100-year Hurricane Event (Source: Hazus-MH)

Jurisdiction	Estimated Total Losses from 100-Year Hurricane Event
St. John the Baptist Parish	\$172,012,061

The Hazus-MH hurricane model also provides a breakdown for seven primary sectors (Hazard occupancy) throughout the parish. The losses by sector are listed in the table below.

*Table 2-44: Estimated Losses in St. John the Baptist Parish for a 100-year Hurricane Event  
(Source: Hazus-MH)*

St. John the Baptist Parish	Estimated Total Losses from 100-Year Hurricane Event
Agricultural	\$367,922
Commercial	\$11,925,827
Government	\$1,542,027
Industrial	\$2,300,729
Religious / Non-Profit	\$1,033,646
Residential	\$153,387,625
Schools	\$1,454,286
<b>Total</b>	<b>\$172,012,061</b>

#### *Threat to People*

The total population within the parish that is susceptible to a hurricane hazard are shown in the table below.

*Table 2-45: Number of People Susceptible to a 100-year Hurricane Event in St. John the Baptist Parish  
(Source: Hazus-MH)*

Number of People Exposed to Hurricane Hazards			
Location	# in Community	# in Hazard Area	% in Hazard Area
Parish	<b>45,924</b>	<b>45,924</b>	<b>100%</b>

The HAZUS-MH hurricane model was also extrapolated to provide an overview of vulnerable populations throughout the parish, shown in the table below:

*Table 2-46: Vulnerable Populations in St. John the Baptist Parish for a 100-year Hurricane Event  
(Source: Hazus-MH)*

St. John the Baptist Parish		
Category	Total Numbers	Percentage of People in Hazard Area
Number in Hazard Area	45,924	100.0%
Persons Under 5 Years	3,366	7.3%
Persons Under 18 Years	8,987	19.6%
Persons 65 Years and Over	4,735	10.3%
White	19,499	42.5%
Minority	26,425	57.5%

#### *Vulnerability*

See Appendix C for parish buildings that are susceptible to hurricanes.

## Winter Storms

For Louisiana and other parts of the southeastern United States, a severe winter storm occurs when humid air from the Gulf of Mexico meets a cold air mass from the north. Once the cold air mass crosses Louisiana and the temperature falls, precipitation may fall in the form of snow or sleet. If the ground temperature is cold enough but air temperature is above freezing, rain can freeze instantly on contact with the surface, causing massive ice storms.

The winter storm events that affect the state of Louisiana are ice storms, freezes, and snow events. Of the winter storm types listed above, ice storms are the most dangerous. Ice storms occur during a precipitation event when warm air aloft exceeds 32°F while the surface remains below the freezing point. Ice will form on all surfaces when precipitation originating as rain or drizzle contacts physical structures. These ice storms are usually accompanied by freezing temperatures and occasionally snow.

Winter storms can be accompanied by strong winds, creating blizzard conditions with blinding, wind driven snow, severe drifting, and dangerous wind chill. These types of conditions are very rare in Louisiana, even in north Louisiana, but ice storms are more common. The climatic line between snow and rain often stalls over north Louisiana, creating ideal conditions for ice accumulation.

In a typical winter storm event, homes and buildings are damaged by ice accumulation, either directly by the weight of the ice on the roofs or by trees and/or limbs falling on buildings. While it is not very prevalent in the state, this type of damage can occur in Louisiana, particularly in north Louisiana. Effects of winter weather more likely to occur in Louisiana, especially south Louisiana, include extreme temperatures which can cause waterlines to freeze and sewer lines to rupture. This is especially true with mobile homes since cold air is able to access more of the building's infrastructure. Winter storms can also have a devastating effect on agriculture, particularly on crops (like citrus) that are dependent on warm weather. Long exposures to low temperatures can kill many kinds of crops, and ice storms can weigh down branches and fruit.

Winter storms are not only a direct threat to human health through conditions like frostbite and hypothermia, but they are also an indirect threat to human health due to vehicle accidents and loss of power and heat, which can be disrupted for days. However, these impacts are rarely seen in Louisiana. As people use space heaters and fireplaces to stay warm, the risk of household fires and carbon monoxide poisoning increases.

Winter storm events occur throughout Louisiana usually during the colder calendar months of December, January, and February. Severe weather events do not occur with the same frequency within all parts of Louisiana. The northern quarter of Louisiana has historically experienced the most severe winter events between 1987 and 2012. The central and, to an even greater extent, the southern parts of the state, such as St. John the Baptist Parish, experience the fewest severe winter events.

The following table shows the Sperry-Piltz Ice Accumulation Index which is utilized to predict the potential damage to overhead utility systems from freezing rain and ice storms.

*Table 2-47: Sperry-Piltz Ice Accumulation Index*

Ice Damage Index	Damage and Impact Descriptions
0	Minimal risk of damage to exposed utility systems; no alerts or advisories needed for crews, few outages.
1	Some isolated or localized utility interruptions are possible, typically lasting only a few hours. Roads and bridges may become slick and hazardous.
2	Scattered utility interruptions expected, typically lasting 12 to 24 hours. Roads and travel conditions may be extremely hazardous due to ice accumulation.
3	Numerous utility interruptions with some damage to main feeder lines and equipment expected. Tree limb damage is excessive. Outages lasting 1 – 5 days.
4	Prolonged and widespread utility interruptions with extensive damage to main distribution feeder lines and some high voltage transmission lines/structure. Outages lasting 5 – 10 days.
5	Catastrophic damage to entire exposed utility systems, including both distribution and transmission networks. Outages could last several weeks in some areas. Shelters needed.

*Location*

Because a winter storm is a climatological based hazard and has the same probability of occurring in St. John the Baptist Parish as all of the adjacent parishes, the entire area in St. John the Baptist Parish is equally at risk for winter storms.

*Previous Occurrences / Extents*

According to SHELUDUS, there have been 3 reported winter storm events that have occurred within the boundaries of St. John the Baptist Parish between the years of 1989-2014. On the next page, *Table 2-47* provides a brief synopsis of each event.

Table 2-47: Previous Occurrences for Winter Weather Events

Date	Synopsis	Property Damage	Crop Damage
December 3, 1989	A winter storm caused icing of highways across Louisiana and Mississippi. Icing caused several vehicle accidents within the parish.	\$14,677	\$0
March 6, 1993	An arctic air mass spread over southeast Louisiana, causing hard freezing conditions in the overnight hours. Agriculture was impacted the hardest, resulting in several lost crops for the season.	\$0	\$224,191
February 2, 1996	An arctic air mass extended into southeast Louisiana, bringing with it subfreezing temperatures. Temperatures stayed below freezing for several days. Several minor house fires occurred due to malfunctioning heaters.	\$0	\$1,349,771

Based on historic data, St. John the Baptist Parish can expect an ice damage index of 2 on the Sperry-Piltz Ice Accumulation Index.

#### Frequency / Probability

With 3 recorded events in 25 years, winter storm events within the boundaries of St. John the Baptist Parish have an annual chance of occurrence calculated at 12% based on the SHELDUS dataset.

#### Estimated Potential Losses

Since 1989, there have been 3 reported winter weather events that have resulted in property and/or crop damages according to the SHELDUS database. The total property damages associated with these storms have totaled \$14,677. To estimate the potential losses of a winter weather event on an annual basis, the total damage recorded for winter weather events was divided by the total number of years of available winter weather data in SHELDUS (1989 – 2014). This provides an annual estimated potential loss of \$587. The following table provides an estimate of potential property losses for St. John the Baptist Parish.

Table 2-48: Estimated Annual Losses for Winter Weather Events in St. John the Baptist Parish

St. John the Baptist Parish
\$587

There have no reported injuries or fatalities as a result of winter weather in St. John the Baptist Parish from the years 1989 – 2014.

#### Vulnerability

See Appendix C for parish building exposure to winter weather hazards.

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### 3 Capability Assessment

This section summarizes the results of St. John the Baptist Parish and other agency efforts to develop policies, programs, and activities that directly or indirectly support hazard mitigation. It also provides information on resources and gaps in the parish's infrastructure, as well as relevant changes in its law since the last Plan Update, in order to suggest a mitigation strategy.

Through this assessment, St. John the Baptist Parish was able to identify strengths that could be used to reduce losses and reduce risk throughout the communities. It also identifies areas where mitigation actions might be used to supplement current capabilities and create a more resilient community before, during, and after a hazard event.

#### Policies, Plans, and Programs

St. John the Baptist Parish capabilities are unique to the parish, including planning, regulatory, administrative, technical, financial, and education and outreach resources. There are a number of mitigation-specific acts, plans, executive orders, and policies that lay out specific goals, objectives, and policy statements which already support or could support pre- and post-disaster hazard mitigation. Many of the ongoing plans and policies hold significant promise for hazard mitigation. They take an integrated and strategic look holistically at hazard mitigation in St. John the Baptist Parish to propose ways to continually improve it. These tools are valuable instruments in pre- and post-disaster mitigation as they facilitate the implementation of mitigation activities through the current legal and regulatory framework. Examples of existing documents in St. John the Baptist Parish include the following:

Table 3-1: Planning and Regulatory Capabilities

Planning and Regulatory		
Please indicate which of the following plans and regulatory capabilities your jurisdiction has in place.		
	<b>St. John the Baptist Parish</b>	<b>Comments</b>
<b>Plans</b>	<b>Yes / No</b>	
Comprehensive / Master Plan	Yes	Adopted 2014
Capital Improvements Plan	No	n/a
Economic Development Plan	No	n/a
Local Emergency Operations Plan	Yes	Every 4 years.
Continuity of Operations Plan	No	n/a
Transportation Plan	No	n/a
Stormwater Management Plan	No	n/a
Community Wildfire Protection Plan	No	n/a
Other plans (redevelopment, recovery, coastal zone management)	No	n/a
<b>Building Code, Permitting and Inspections</b>	<b>Yes / No</b>	<b>Comments</b>
Building Code	Yes	Version / Year • International Residential Code , 2012 • International Building Code, 2012 • International Existing Building Code, 2012 • International Mechanical Code, 2012 • International Fuel Gas Code, 2012 • Louisiana State Plumbing Code, 2013 • National Electric Code, 2011
Building Code Effectiveness Grading Schedule (BCEGS) Score	Yes	Score = Third class for 1 and 2 family residential and third class for commercial and industrial
Fire Department ISO/PIAL rating	No	n/a
Site plan review requirements	Yes	n/a
<b>Land Use Planning and Ordinances</b>	<b>Yes / No</b>	<b>Comments</b>
Zoning Ordinance	Yes	Yes
Subdivision Ordinance	Yes	Yes
Floodplain Ordinance	Yes	Yes
Natural Hazard Specific Ordinance (stormwater, steep slope, wildfire)	No	n/a
Flood Insurance Rate Maps	Yes	Yes
Acquisition of land for open space and public recreation uses	No	n/a
Other	No	n/a

St. John the Baptist Parish will work to expand their capabilities by adding to these plans, as well as work to create new plans that will address a long-term recovery and resiliency framework. In instances where there are no existing plans, there will be a commitment to explore opportunities to create new plans that will address long-term recovery and resiliency framework as parish and local resources allow.

### Building Codes, Permitting, Land Use Planning and Ordinances

As of the 2015 Update, St. John the Baptist Parish ensures that all adopted building codes are enforced and in compliance relating to the construction of any structure within the boundaries of the parish. St. John the Baptist Parish follows the International Building Code with its referenced standards. Additional referenced codes and ordinances for St. John the Baptist Parish include the following: International Building Code 2012, International Existing Building Code 2012, International Mechanical Code 2012, International Fuel Gas Code 2012, Louisiana State Plumbing Code 2013, and National Electric Code 2011. Some examples of leveraging these capabilities within the parish are shown in *Table 3-1*.

While local capabilities for mitigation can vary from community to community, St. John the Baptist Parish as a whole has a system in place to coordinate and share these capabilities through the Office of Homeland Security and Emergency Preparedness (OHSEP) and through this Parish Hazard Mitigation Plan.

Some programs and policies, such as the above described, might use complementary tools to achieve a common end, but fail to coordinate with or support each other. Thus, coordination among local mitigation policies and programs is essential to hazard mitigation.

### Administration, Technical, and Financial

As a community, St. John the Baptist Parish has administrative and technical capabilities in place that may be utilized in reducing hazard impacts or implementing hazard mitigation activities. Such capabilities include staff, skillset, and tools available in the community that may be accessed to implement mitigation activities and to effectively coordinate resources. The ability to access and coordinate these resources is also important. The tables on the following pages show examples of resources in place in St. John the Baptist Parish.

Table 3-2: Administration and Technical Capabilities

St. John the Baptist Parish		Comments
<b>Administration and Technical</b>		
Identify whether your community has the following administrative and technical capabilities. For smaller jurisdictions without local staff resources, if there are public resources at the next higher level government that can provide technical assistance, indicate so in your comments.		
<b>Administration</b>	<b>Yes / No</b>	<b>Comments</b>
Planning Commission	Yes	n/a
Mitigation Planning Committee	No	n/a
Maintenance programs to reduce risk (tree trimming, clearing drainage systems)	No	n/a
<b>Staff</b>	<b>Yes / No;</b>	
Chief Building Official	Yes	Third Party Contractor
Floodplain Administrator	Yes	n/a
Emergency Manager	Yes	n/a
Community Planner	No	n/a
Civil Engineer	No	n/a
GIS Coordinator	Yes	n/a
Grant Writer	No	n/a
Other	No	n/a
<b>Technical</b>	<b>Yes / No</b>	
Warning Systems / Service (Reverse 911, outdoor warning signals)	No	n/a
Hazard Data & Information	No	n/a
Grant Writing	No	n/a
Hazus Analysis	No	n/a
Other	No	n/a

Financial capabilities are the resources that St. John the Baptist Parish has access to or are eligible to use in order to fund mitigation actions. Costs associated with implementing the actions identified by the parish may vary from little/no cost actions, such as outreach efforts, or substantial action costs such as acquisition of flood prone properties. The following financial resources are available to fund mitigation actions in St. John the Baptist Parish:

Table 3-3: Financial Capabilities

St. John the Baptist Parish		Comments
<b>Financial</b>		
Identify whether your jurisdiction has access to or is eligible to use the following funding resources for hazard mitigation.		
Funding Resource	Yes / No	
Capital Improvements project funding	No	n/a
Authority to levy taxes for specific purposes	No	n/a
Fees for water, sewer, gas, or electric services	No	n/a
Impact fees for new development	No	n/a
Stormwater Utility Fee	No	n/a
Community Development Block Grant (CDBG)	No	n/a
Other Funding Programs	No	n/a

### Education and Outreach

A key element in hazard mitigation is promoting a safer, more disaster resilient community through Education and Outreach activities and/or programs. Successful outreach programs provide data and information that improves overall quality and accuracy of important information for citizens to feel better prepared and educated with mitigation activities. These programs enable the individual communities and the parish as a whole to maximize opportunities for implementation of activities through greater acceptance and consensus of the community.

St. John the Baptist Parish has existing education and outreach programs to implement mitigation activities, as well as communicate risk and hazard related information to its communities. Specifically focusing on advising repetitive loss property owners of ways they can reduce their exposure to damage by repetitive flooding remains a priority for the entire parish. The existing programs are outlined on the following page.

Table 3-4: Education and Outreach Capabilities

		St. John the Baptist Parish	Comments
Education and Outreach			
Identify education and outreach programs and methods, already in place that could be used to implement mitigation activities and communicate hazard-related information.			
Program / Organization	Yes / No		
Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc.	No	n/a	
Ongoing public education or information program (responsible water use, fire safety, household preparedness, environmental education)	No	n/a	
Natural Disaster or safety related school program	No	n/a	
Storm Ready certification	No	n/a	
Firewise Communities certification	No	n/a	
Public/Private partnership initiatives addressing disaster-related issues	No	n/a	
Other	No	n/a	

The communities within St. John the Baptist Parish rely on St. John the Baptist OHSEP and/or St. John the Baptist Parish Government Agencies for the above listed planning and regulatory, Administrative and Technical, Financial, and Education and Outreach Capabilities.

As reflected in the aforementioned existing regulatory mechanisms, programs, and resources within the parish, St. John the Baptist Parish remains committed to expanding and improving on the existing capabilities within the parish. Communities, along with St. John the Baptist Parish, will work together toward increased participation in funding opportunities and available mitigation programs. Should funding become available, the hiring of additional personnel to dedicate to hazard mitigation initiatives and programs, as well as increasing ordinances within the parish, will all enhance and expand risk reduction for all of St. John the Baptist.

### Flood Insurance and Community Rating System

Under the Federal Emergency Management Agency’s (FEMA’s), the National Flood Insurance Program (NFIP) administers the Community Rating System (CRS), in which St. John the Baptist Parish currently participates. Under the CRS, flood insurance premiums for properties in participating communities are reduced to reflect the flood protection activities that are being implemented. This program can have a major influence on the design and implementation of flood mitigation activities, so a brief summary is provided here.

A community receives a CRS classification based upon the credit points it receives for its activities. It can undertake any mix of activities that reduce flood losses through better mapping, regulations, public information, flood damage reduction and/or flood warning and preparedness programs.

There are ten CRS classes: Class 1 requires the most credit points and gives the largest premium reduction; Class 10 receives no premium reduction (see *Figure 3-1*). A community that does not apply for the CRS or that does not obtain the minimum number of credit points is a class 10 community.

CLASS	DISCOUNT	CLASS	DISCOUNT
1	45%	6	20%
2	40%	7	15%
3	35%	8	10%
4	30%	9	5%
5	25%	10	—

SFHA (Zones A, AE, A1-A30, V, V1-V30, AO, and AH): Discount varies depending on class.  
 SFHA (Zones A99, AR, AR/A, AR/AE, AR/A1-A30, AR/AH, and AR/AO): 10% discount for Classes 1-6; 5% discount for Classes 7-9.\*  
 Non-SFHA (Zones B, C, X, D): 10% discount for Classes 1-6; 5% discount for Classes 7-9.

\* In determining CRS Premium Discounts, all AR and A99 Zones are treated as non-SFHAs.

*Figure 3-1: CRS Discounts by Class*  
 (Source: FEMA)

During the last update, thirty-eight Louisiana communities participated in the CRS. As of the 2015 update, Jefferson, East Baton Rouge, and Terrebonne Parishes all lead the state with best classifications, Class 6.

As of May 2012, 310 communities in the state of Louisiana participate in the FEMA's NFIP. Of these communities, 41 (or 13%) participate in the CRS. Of the top fifty Louisiana communities, in

terms of total Flood Insurance policies held by residents, 27 participate in the CRS. The remaining 23 communities present an outreach opportunity for encouraging participation in the CRS.

The CRS provides an incentive not just to start new mitigation programs, but to keep them going. There are two requirements that "encourage" a community to implement flood mitigation activities. Once the parish has become a participant and has obtained a CRS rating, the parish will receive CRS credit for this Plan when it is adopted. To retain that credit, though, the parish must submit an evaluation report on progress toward implementing this plan to FEMA by October 1 of each year. That report must be made available to the media and the public. Second, the parish must annually recertify to FEMA that it is continuing to implement its CRS credited activities. Failure to maintain the same level of involvement in flood protection can result in a loss of CRS credit points and a resulting increase in flood insurance rates to residents.

In 2011<sup>1</sup>, the NFIP completed a comprehensive review of the CRS that will result in the release of a new CRS Coordinator's Manual. The changes to the 2013 CRS Coordinator's Manual are the result of a multi-year program evaluation that included input from a broad group of contributors to evaluate the CRS and refine the program to meet its stated goals. The upcoming changes will drive new achievements in the following six core flood loss reduction areas important to the NFIP: (1) reduce liabilities to the NFIP Fund; (2) improve disaster resiliency and sustainability of communities; (3) integrate a Whole Community approach to addressing emergency management; (4) promote natural and beneficial functions of floodplains; (5) increase understanding of risk, and; (6) strengthen adoption and enforcement of disaster-resistant building codes.

<sup>1</sup> <https://www.fema.gov/national-flood-insurance-program-community-rating-system>

The 2013 CRS Coordinator's Manual changes will impact each CRS community differently. Some communities will see an increase in the points they receive since points for certain activities have increased (e.g., Activity 420 Open Space Preservation). Other communities will receive fewer points for certain activities (e.g., Activity 320 Map Information Service). It is likely that some communities with marginal CRS Class 9 programs will have to identify new CRS credits in order to remain in the CRS.

Typically, CRS communities do not request credit for all the activities they are currently implementing unless it would earn enough credit to advance the community to a higher CRS Class. A community that finds itself losing CRS credit with the 2013 Manual could likely identify activities deserving credit they had not previously received. Due to the changes in both activities and CRS points, community CRS coordinators should speak with their ISO/CRS Specialist to understand how the 2013 Manual will impact their community and when.

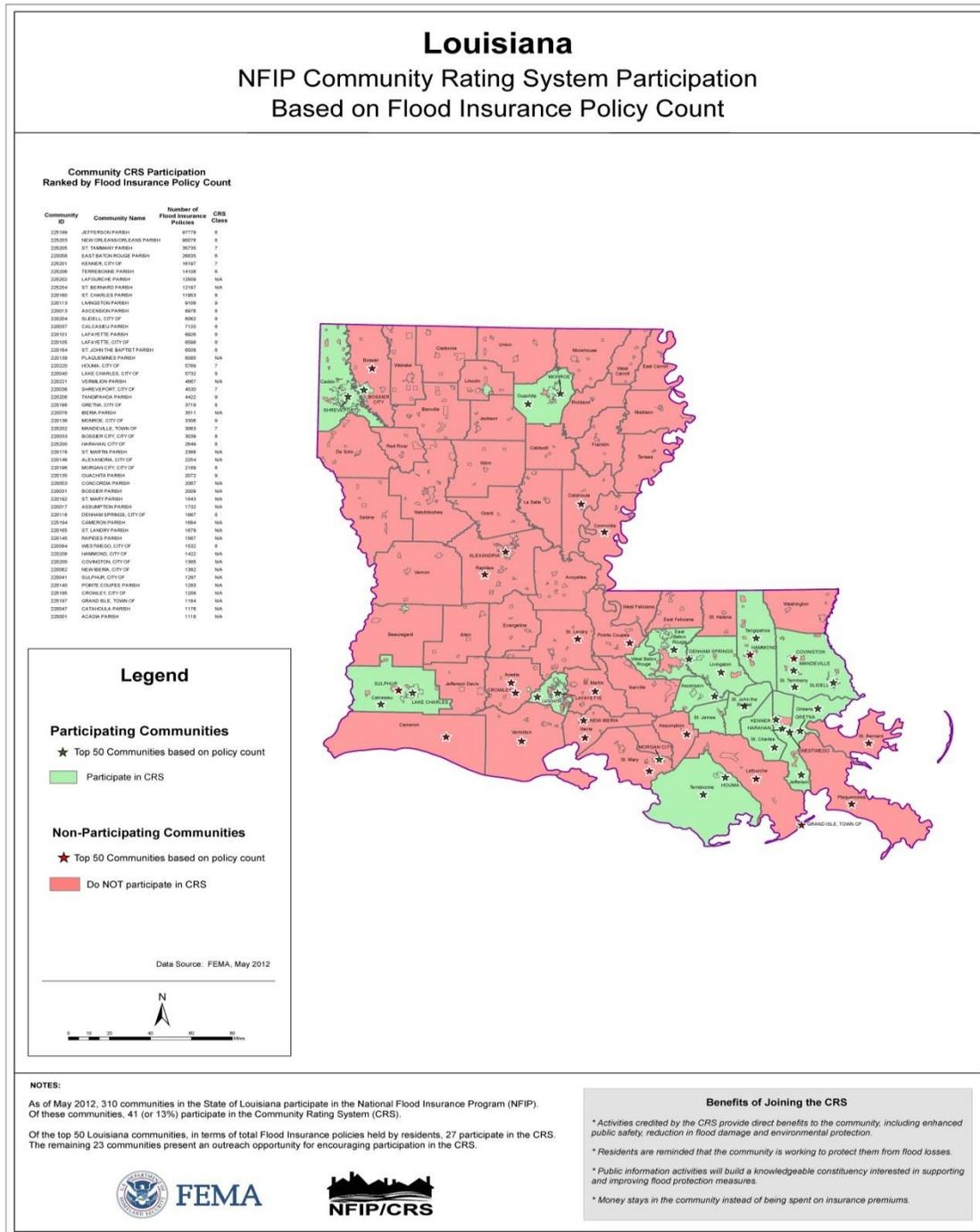


Figure 3-2: Louisiana CRS Participation  
(Source: FEMA)<sup>2</sup>

<sup>2</sup> [http://www.fema.gov/media-library-data/20130726-2128-31471-9581/ks\\_ky\\_la\\_crs\\_may\\_2012\\_508.zip](http://www.fema.gov/media-library-data/20130726-2128-31471-9581/ks_ky_la_crs_may_2012_508.zip)

In addition to the direct financial reward for participating in the Community Rating System, there are many other reasons to participate in the CRS. As FEMA staff often say, “If you are only interested in saving premium dollars, you’re in the CRS for the wrong reason.” The other benefits that are more difficult to measure in dollars include:

1. The activities credited by the CRS provide direct benefits to residents, including:
  - Enhanced public safety
  - A reduction in damage to property and public infrastructure
  - Avoidance of economic disruption and losses
  - Reduction of human suffering
  - Protection of the environment
  
2. A community’s flood programs will be better organized and more formal. Ad hoc activities, such as responding to drainage complaints rather than an inspection program, will be conducted on a sounder, more equitable basis.
  
3. A community can evaluate the effectiveness of its flood program against a nationally recognized benchmark.
  
4. Technical assistance in designing and implementing a number of activities is available at no charge from the Insurance Services Office.
  
5. The public information activities will build a knowledgeable constituency interested in supporting and improving flood protection measures.
  
6. A community would have an added incentive to maintain its flood programs over the years. The fact that its CRS status could be affected by the elimination of a flood related activity or a weakening of the regulatory requirements for new developments would be taken into account by the governing board when considering such actions.
  
7. Every time residents pay their insurance premiums, they are reminded that the community is working to protect them from flood losses, even during dry years.

As a community, St. John the Baptist Parish has conducted multiple outreach activities and efforts since the last Hazard Mitigation Plan Update, in order to involve the public on floodplain management and flood mitigation. Documentation for these community outreach events and community-wide efforts is provided in Appendix F.

**\*\*More information on the CRS can be found at [www.fema.gov/nfip/crs.shtm](http://www.fema.gov/nfip/crs.shtm)\*\***

### NFIP Worksheets

Parish NFIP worksheets can be found in Appendix E: State Required Worksheets.

## 4 Mitigation Strategy

### Introduction

St. John the Baptist Parish's Hazard Mitigation Strategy has a common guiding principle and is the demonstration of the parish's commitment to reduce risks from hazards. The strategy also serves as a guide for parish and local decision makers as they commit resources to reducing the effects of hazards.

St. John the Baptist Parish confirmed the goals, objectives, actions, and projects over the period of the Hazard Mitigation Plan Update process. The mitigation actions and projects in this 2015 HMP update are a product of analysis and review of the St. John the Baptist Parish Hazard Mitigation Plan Steering Committee under the coordination of the St. John the Baptist Parish Office of Homeland Security and Emergency Preparedness. The committee was presented a list of projects and actions, new and from the 2010 plan, for review from July 2015 – August 2015.

An online public opinion survey was conducted of St. John the Baptist Parish residents in July and August 2015. The survey was designed to capture public perceptions and opinions regarding natural hazards in St. John the Baptist Parish. In addition, the survey collected information regarding the methods and techniques preferred by the respondents for reducing the risks and losses associated with local hazards.

During the public meeting, the committee provided a status of the projects from 2010 and the proposed actions for the 2015 update. Committee members then agreed on the submission of each project based on feasibility for funding, ease of completion, and other community specific factors. The actions were later prioritized.

This activity confirms that the goals and action items developed by the St. John the Baptist Parish Hazard Mitigation Plan Steering Committee are representative of the outlook of the community at large. Full survey results can be found here: <https://www.surveymonkey.com/results/SM-3WQQLVS2/>.

When asked to gauge from a list which categories were more susceptible to impacts caused by natural hazards, the top three categories selected were:

1. Human (Loss of life and/or injuries)
2. Infrastructure (Damage or loss of bridges, utilities, schools, etc.)
3. Economic (Business closures and/or job losses)

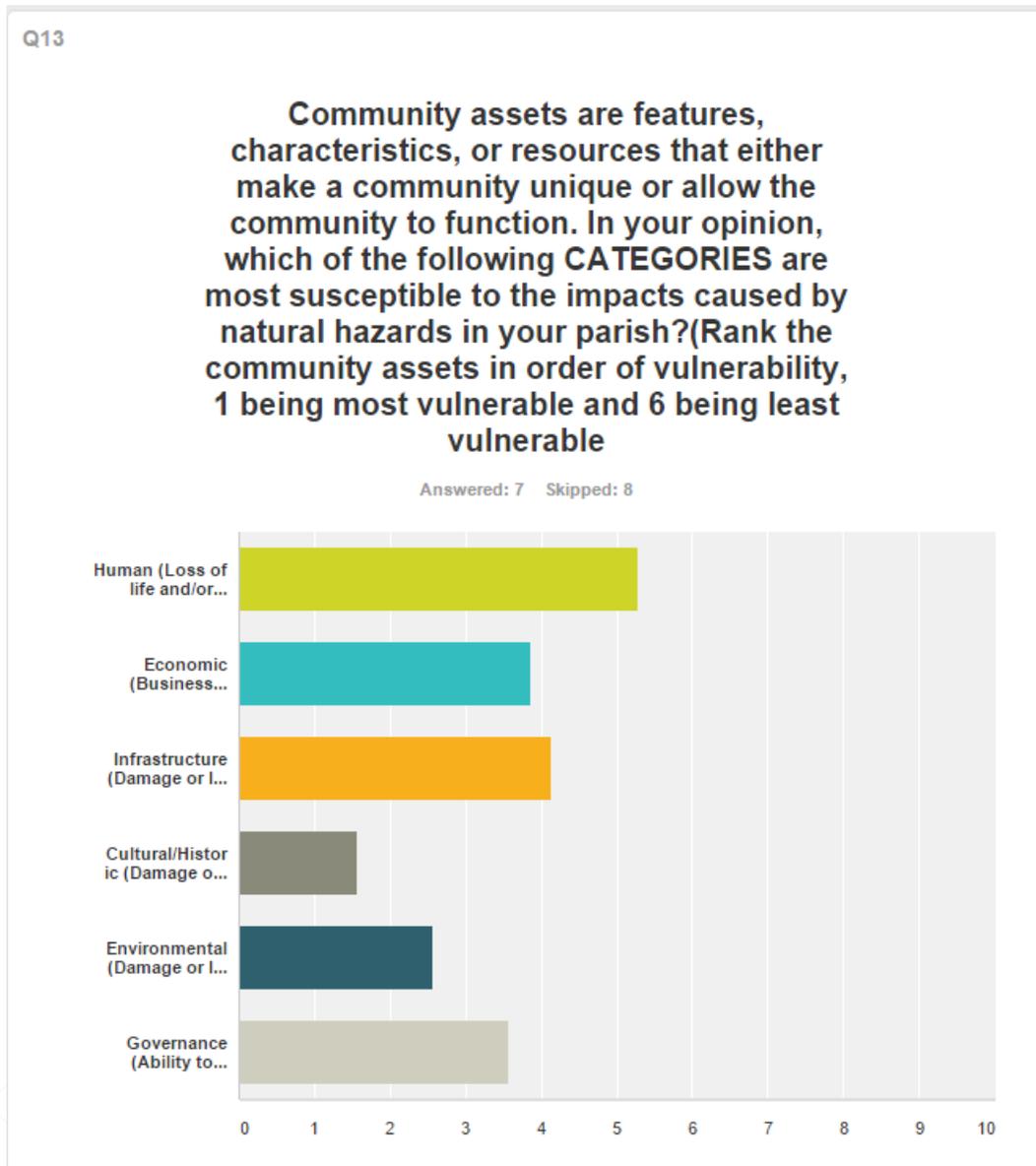


Figure 4-1: Public Opinion Survey - Community Perception of Vulnerability

Respondents to the public opinion survey ranked their top five types of community assets to be the following:

1. Hospitals
2. Major Bridges
3. Police and Fire Stations
4. Schools (K-12)
5. Nursing Home/Assisted Living Facilities

Q14

Next we would like to know what specific types of **COMMUNITY ASSETS** are most important to you. (Check the corresponding box for each asset)

Answered: 7 Skipped: 8

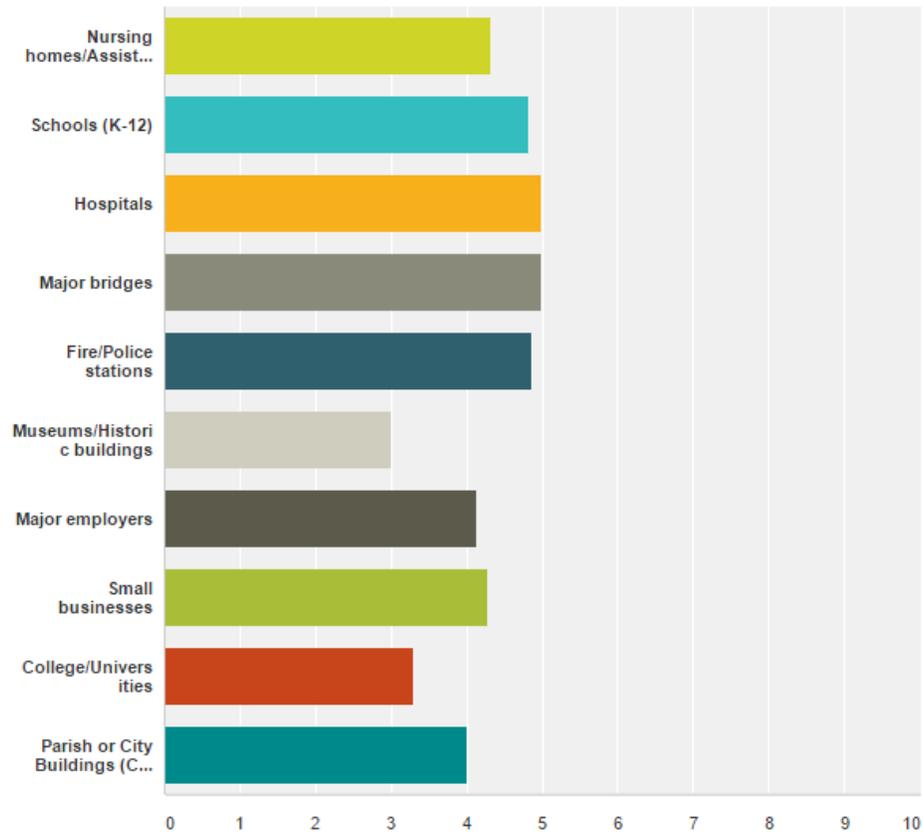


Figure 4-2: Importance of Community Assets

Conducting the public opinion survey activity qualifies that the goals and action items developed by the parish are representative of the outlook of the community at large.

## Goals

The goals represent the guidelines that the parish and its communities want to achieve with this plan update. To help implement the strategy and adhere to the mission of the Hazard Mitigation Plan, the preceding section of the plan update was focused on identifying and quantifying the risks faced by the residents and property owners in St. John the Baptist Parish from natural and manmade hazards. By articulating goals and objectives based on the previous plans, the risk assessment results, and intending to address those results, this section sets the stage for identifying, evaluating, and prioritizing feasible, cost effective, and environmentally sound actions to be promoted at the parish and municipal level – and

to be undertaken by the state for its own property and assets. By doing so, St. John the Baptist Parish can make progress toward reducing identified risks.

For the purposes of this Plan Update, goals and action items are defined as follows:

- **Goals** are general guidelines that explain what the parish wants to achieve. Goals are expressed as broad policy statements representing desired long-term results.
- **Action Items** are the specific steps (projects, policies, and programs) that advance a given goal. They are highly focused, specific, and measurable.

The current goals of the St. John the Baptist Parish Hazard Mitigation Plan Update Steering Committee represent long-term commitments by the parish. After assessing these goals, the committee decided that the current remain valid.

The goals are as follows:

1. Identify and pursue preventative measures that will reduce future damages from hazards
2. Enhance public awareness and understanding of disaster preparedness
3. Reduce repetitive flood losses in the parish
4. Facilitate sound development and rebuilding in the parish so as to reduce or eliminate the potential impacts of hazards

The Mitigation Action Plan focuses on actions to be taken by St. John the Baptist Parish. All of the activities in the Mitigation Action Plan will be focused on helping the parish and its communities in developing and funding projects that are not only cost effective, but also meet the other DMA 2000 criteria of environmental compatibility and technical feasibility.

The Hazard Mitigation Plan Steering Committee reviewed and evaluated the potential action and project lists in which consideration was given to a variety of factors. Such factors include determining a project's eligibility for federal mitigation grants, as well as its ability to be funded. This process required evaluation of each project's engineering feasibility, cost effectiveness, and environmental and cultural factors.

### [2015 Mitigation Actions and Update on Previous Plan Actions](#)

The St. John the Baptist Parish Hazard Mitigation Plan Steering Committee identified actions that would reduce and/or prevent future damage within St. John the Baptist Parish. In that effort, the parish focused on a comprehensive range of specific mitigation actions. These actions were identified in thorough fashion by the consultant team and the committee by way of frequent and open communications and meetings held throughout the planning process.

As outlined in the Local Mitigation Planning Handbook the following are eligible types of mitigation actions:

- **Local Plans and Regulations** – These actions include government authorities, policies, or codes that influence the way land and buildings are developed and built.
- **Structure and Infrastructure Projects** – These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area, and also includes projects to construct manmade structures to reduce the impact of hazards.
- **Natural System Protection** – These actions minimize the damage and losses and also preserve or restore the functions of natural systems.
- **Education and Awareness Programs** – These actions inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them.

The established and agreed upon parish actions relative to the parish-wide goals are below. Additionally, action updates from the previous plan updates can be found below the new actions.

St. John the Baptist Parish Mitigation Actions

Table 4-1: 2015 Mitigation Actions - St. John the Baptist Parish Unincorporated

St. John the Baptist Parish - Unincorporated							
Jurisdiction-Specific Action	Action Description	Funding Source	Target Completion Date	Responsible Party, Agency, or Department	Hazard	Goal	Status
SJB1: Drainage improvements	Improve drainage ways including, but not limited to, by enlarging and upgrading any inferior culverts, upgrading pumps and flapper valves, and installing retention ponds to ensure water flows freely within the drainage system, which will protect the surrounding area from flooding. Expand the drainage districts to cover the entire parish.	Community Development Block Grant (CDBG), Flood Mitigation Assistance (FMA) Project Funds, Hazard Mitigation Grant Program (HMGP) Funds, Small Business Administration (SBA), U.S. Army Corps of Engineers - Section 205, and State Capital Outlay, Local Drainage Funds	On-Going	Parish Floodplain Manager/Public Works Director	Flooding, Tropical Cyclone	1, 3, 4	New

St. John the Baptist Parish - Unincorporated							
Jurisdiction-Specific Action	Action Description	Funding Source	Target Completion Date	Responsible Party, Agency, or Department	Hazard	Goal	Status
SJB2: Update master drainage plan	Update the master drainage plan which will increase drainage capacity at major drainage laterals and evaluate drainage projects at major drainage laterals to determine best method of increasing drainage capacity. Implement recommended projects resulting from drainage plan to reduce the number of flooded structures by increasing the volume of water the pumps can handle at the final outfall.	Parish Budget/Grant Funding	On-Going	Parish Engineer	Flooding, Tropical Cyclone	1, 3, 4	New
SJB3: Hardening of governmental buildings and critical facilities	Harden critical facilities including, but not limited to, utilizing applicable floodproofing techniques, adding roof tie-downs and additional storm protecting features such as storm shutters or impact resistant glass, and add back up power supply/generators at these locations. Benefits include the providing of safety and a source of power during power outages to continue essential operations. Creates a more disaster resistant structure, which will prevent interruption of services in times of emergencies.	Parish Budget/Grant Funding	On-Going	Parish Emergency Manager	Flooding, Thunderstorm - High Wind, Tornado, Tropical Cyclone	1, 4	New
SJB4: Implementation of new mitigation initiatives	Implement new initiatives including, but not limited to, the Pilot Planning Grant Program (PPGP), Pilot Reconstruction, and Repetitive Flood Claims, developed by the state and FEMA.	Staff Time/Grant Funding	On-Going	Parish Emergency Manager	Expansive Soils, Flooding, Tropical Cyclone	1, 3, 4	New

St. John the Baptist Parish - Unincorporated							
Jurisdiction-Specific Action	Action Description	Funding Source	Target Completion Date	Responsible Party, Agency, or Department	Hazard	Goal	Status
SJB5: Improvement of public notification system	Improve coverage of the public notification system by upgrading the technology including, but not limited to, sirens and a call down system with a backup communication.	Parish Budget/Grant Funding	On-Going	Parish Emergency Manager	Tornado	1, 2, 4	New
SJB6: Promotion of participation in the NFIP	Continue to promote the purchase of flood insurance. Advertise the availability, cost, and coverage of flood insurance through the NFIP. This enables homeowners to financially recover from the devastating effects of flooding as rapidly as possible. Serves to educate area residents that any homeowner, regardless of location, can purchase flood insurance.	Parish Budget	On-Going	Parish Emergency Manager	Flooding, Tropical Cyclone	1, 2, 3	New
SJB7: Mitigation Education and Public Outreach	Continue to increase public awareness of hazards and hazardous areas by the following: distribute public awareness information regarding flood hazards, SFHA's, and potential mitigation measures using the local newspaper, utility bill inserts, inserts in the phone book, and parish hazards awareness website; provide an educational program for school age children; integrate "Disaster Resistance Education" into the public school curriculum; provide public education on the importance of maintaining the ditches; sponsor "Multi-Hazard Awareness Activities" for public education purposes	Parish Budget/Grant Funding	On-Going	Parish School Board and Parish Emergency Manager	Drought, Expansive Soils, Flooding, Thunderstorms - High Wind, Hail and Lightning, Tornado, Tropical Cyclone, Winter Storm	1, 2	New

St. John the Baptist Parish - Unincorporated							
Jurisdiction-Specific Action	Action Description	Funding Source	Target Completion Date	Responsible Party, Agency, or Department	Hazard	Goal	Status
SJB8: Elevation and acquisition projects	Pursue elevation/ acquisition/ flood proofing/reconstruction projects and structural solutions to flooding using available grant funding for repetitive loss structures and severe repetitive loss structures. Annually review and correct the Repetitive Loss list by submitting correction worksheets to FEMA.	Parish Budget	On-Going	Building Permit Director/Emergency Manager	Flooding, Tropical Cyclone	1, 3, 4	New
SJB9: CRS Participation	Continue to participate in the CRS. Review the existing floodplain ordinance and evaluate ways to improve the Parish's rating to reduce the flood insurance premium. Choose from the variety of methods and projects available that can be implemented to improve the CRS rating. Benefits: Reduce flood insurance premiums and thereby encourage more people to purchase flood insurance, which would potentially result in lower cost and a more timely recovery	Parish Budget	On-Going	Parish Floodplain Manager	Flooding, Tropical Cyclone	1, 3, 4	New
SJB10: Hardening of future industrial, commercial, and residential structures	Continue to review and evaluate improved building regulations of industrial, commercial, and residential structures, and future or new structures. Benefits: Results in additional techniques to harden structures and thereby withstand impacts of hazards.	Parish Budget	On-Going	Parish Floodplain Manager/Inspection and Code Planning Department/Parish Department of Public Works	Thunderstorm - High Wind and Hail, Tornado, Tropical Cyclone	1, 4	On-going, we continue to look at all improved building regulations that may mitigate any new structures. We are 20% complete.

St. John the Baptist Parish - Unincorporated							
Jurisdiction-Specific Action	Action Description	Funding Source	Target Completion Date	Responsible Party, Agency, or Department	Hazard	Goal	Status
SJB11: Safe room construction	Construct safe rooms for governmental buildings and critical facilities	HMGP	1 - 5 years	Building Permit Director/Emergency Manager	Thunderstorm - High Wind and Hail, Tornado	1, 4	New
SJB12: Generator installation for governmental buildings and critical facilities	Install generators for governmental buildings and critical facilities as needed	HMGP	1 - 5 years	Building Permit Director/Emergency Manager	Thunderstorm - High Wind, Tropical Cyclone, Tornado, Winter Weather	1, 4	New
SJB13: Expansive Soil Data Collection and Tracking	Create a monitoring system in an effort to track losses due to expansive soil occurrences	FEMA	1-5 Years	St. John the Baptist Parish Government	Expansive Soils	1,2	New
SJB14: Lightning Mitigation	Procurement and installation of lightning rods and surge protectors for public buildings to preserve life and property	FEMA, Local	1-5 years	St. John the Baptist Parish OHSEP/Parish Engineer/ Parish Department of Public Works	Thunderstorms (Lightning)	1	New
SJB15: Potable Water	Create redundancy of potable water supply to critical facilities, especially hospitals in the parish, and provide protection of potable water supply by acquisition/installation of backflow preventers at appropriate critical locations.	FEMA, Local	1-5 years	St. John the Baptist Parish OHSEP/Parish Engineer/ Parish Department of Public Works	Tropical Cyclones, Thunderstorms (lightning, high wind, hail), Tornadoes, Drought	1	New

St. John the Baptist Parish Mitigation Action Update

Table 4-2: Mitigation Action Update - St. John the Baptist Parish Unincorporated

St. John the Baptist Parish - Unincorporated							
Jurisdiction-Specific Action	Action Description	Funding Source	Target Completion Date	Responsible Party, Agency, or Department	Hazard	Goal	Status
Hardening of governmental buildings and critical facilities	Harden critical facilities including, but not limited to, utilizing applicable floodproofing techniques, adding roof tie-downs and additional storm protecting features such as storm shutters or impact resistant glass, and add back up power supply/generators at these locations. Benefits include the providing of safety and a source of power during power outages to continue essential operations. Creates a more disaster resistant structure, which will prevent interruption of services in times of emergencies.	Parish Budget/Grant Funding	On-Going	Parish Emergency Manager	Thunderstorm - High Wind, Tornado, Tropical Cyclone	1, 4	35% complete
Improvement of public notification system	Improve coverage of the public notification system by upgrading the technology including, but not limited to, sirens and a call down system with a backup communication.	Parish Budget/Grant Funding	On-Going	Parish Emergency Manager	Tornado	1, 2, 4	25% complete
Improvement in weather safety prediction devices	Pursue monitoring opportunities including, but not limited to, gauges and remote sensing devices, to timely relay weather conditions to emergency personnel for adequate response time.	Staff Time/Grant Funding/Local Funding	On-Going	Parish Emergency Manager, USGS, NOAA, USACE, LADOTD, LSU Remote Sensing Unit Lab	Thunderstorm - High Wind, Tornado	1, 2, 4	Complete - Recently acquired flood gauge in Lake Pontchartrain and is now online.

St. John the Baptist Parish - Unincorporated							
Jurisdiction-Specific Action	Action Description	Funding Source	Target Completion Date	Responsible Party, Agency, or Department	Hazard	Goal	Status
Promotion of participation in the NFIP	Continue to promote the purchase of flood insurance. Advertise the availability, cost, and coverage of flood insurance through the NFIP. This enables homeowners to financially recover from the devastating effects of flooding as rapidly as possible. Serves to educate area residents that any homeowner, regardless of location, can purchase flood insurance.	Parish Budget	On-Going	Parish Emergency Manager	Flooding, Tropical Cyclone	1, 2, 3	Completed several outreach events with parish residents, insurance agents, and realtors to reinforce the need to purchase flood insurance to enable faster recovery from flood events.
Mitigation Education and Public Outreach	Continue to increase public awareness of hazards and hazardous areas by the following: distribute public awareness information regarding flood hazards, SFHA's, and potential mitigation measures using the local newspaper, utility bill inserts, inserts in the phone book, and parish hazards awareness website; provide an educational program for school age children; integrate "Disaster Resistance Education" into the public school curriculum; provide public education on the importance of maintaining the ditches; sponsor "Multi-Hazard Awareness Activities" for public education purposes	Parish Budget/Grant Funding	On-Going	Parish School Board and Parish Emergency Manager	Drought, Expansive Soils, Flooding, Thunderstorms - High Wind, Hail and Lightning, Tornado, Tropical Cyclone, Winter Storm	1, 2	Parish phone book includes NFIP and CRS information. Parish website provides many flood protection resources and links to floodsmart.gov and FEMA.

St. John the Baptist Parish - Unincorporated							
Jurisdiction-Specific Action	Action Description	Funding Source	Target Completion Date	Responsible Party, Agency, or Department	Hazard	Goal	Status
Elevation and acquisition projects	Pursue elevation/ acquisition/ flood proofing/reconstruction projects and structural solutions to flooding using available grant funding for repetitive loss structures and severe repetitive loss structures. Annually review and correct the Repetitive Loss list by submitting correction worksheets to FEMA.	Parish Budget	On-Going	Building Permit Director/Emergency Manager	Flooding, Tropical Cyclone	1, 3, 4	Elevation/Acquisition grant program nearly complete, just received the final estimate for elevation, only other item that is not complete is the home value calculations for the acquisitions. All other RFI items are completed. Repetitive Loss list has been reviewed for corrections and is complete.
CRS Participation	Continue to participate in the CRS. Review the existing floodplain ordinance and evaluate ways to improve the Parish's rating to reduce the flood insurance premium. Choose from the variety of methods and projects available that can be implemented to improve the CRS rating. Benefits: Reduce flood insurance premiums and thereby encourage more people to purchase flood insurance, which would potentially result in lower cost and a more timely recovery	Parish Budget	On-Going	Parish Floodplain Manager	Flooding, Tropical Cyclone	1, 3, 4	Completed several outreach events with parish residents, insurance agents, and realtors to reinforce the need to purchase flood insurance. Submitted documentation to amend the ordinance by adding 1' freeboard requirement for new construction which may reduce flood damages and flood insurance premiums, and improve the CRS rating.
Hardening of future industrial, commercial, and residential structures	Continue to review and evaluate improved building regulations of industrial, commercial, and residential structures, and future or new structures. Benefits: Results in additional techniques to harden structures and thereby withstand impacts of hazards.	Parish Budget	On-Going	Parish Floodplain Manager/Inspection and Code Planning Department/Parish Department of Public Works	Thunderstorm - High Wind and Hail, Tornado, Tropical Cyclone	1, 4	20% complete.

### Action Prioritization

During the prioritization process, the Steering Committee considered the costs and relative benefits of each new action. Costs can usually be listed in terms of dollars, although at times it involves staff time rather than the purchase of equipment or services that can be readily measured in dollars. In most cases, benefits, such as lives saved or future damage prevented, are hard to measure in dollars. Therefore, many projects were prioritized with these factors in mind.

In all cases, the Committee concluded that the benefits (in terms of reduced property damage, lives saved, health problems averted and/or economic harm prevented) outweighed the costs for the recommended action items. The process of identifying the priority ratings was an informal process and whether or not the project will be cost effective was the driving factor.

The Steering Committee prioritized the possible activities that could be pursued. Steering Committee members consulted appropriate agencies in order to assist with the prioritizations. The results were items that address the major hazards, are appropriate for those hazards, are cost-effective, and are affordable. The Steering Committee met internally for mitigation action meetings to review and approve St. John the Baptist mitigation actions.

The mitigation actions found above are current as of submission of the HMP, but upon actual project initiation, each aspect will have to be reevaluated. St. John the Baptist Parish will implement and administer the identified actions based off of the proposed timeframes and priorities for each reflected in the portions of this section where actions are summarized.

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## Appendix A: Planning Process

### Purpose

The Hazard Mitigation Plan Update process prompts local jurisdictions to keep their hazard mitigation plan current and moving toward a more resilient community. The plan update builds on the research and planning efforts of previous plans while reviewing recent trends. The Steering Committee followed the Federal Emergency Management Agency's (FEMA's) hazard mitigation planning process per the FEMA Local Mitigation Planning Handbook. This planning process assured public involvement and the participation of interested agencies and private organizations. Documentation of the planning process for the updated plan is addressed in this section.

### The St. John the Baptist Parish Hazard Mitigation Plan Update

The St. John the Baptist Parish Hazard Mitigation Plan Update process began in June 2015 with a series of meetings and collaborations between the contractor (SDMI) and the participating agencies. Update activities were intended to give each participating agency the opportunity to shape the plan to best fit their community's goals. Community stakeholders and the general public were invited to attend and contribute information to the planning process during specific time periods or meetings.

The table below details the meeting schedule and purpose for the planning process:

Date	Meeting or Outreach	Location	Public Invited	Purpose
11/20/2014	Coordination Conference Call	Telephone	No	Discuss with Parish HM coordinator and any Steering Committee members expectations and requirements of the project.
2/25/2015	Kick-Off Meeting	St. John the Baptist OHSEP, LaPlace, LA	No	Discuss with the plan Steering Committee expectations and requirements of the project. Assign plan worksheets to Parish.
9/10/2015	Risk Assessment overview	St. John the Baptist OHSEP, LaPlace, LA	No	Discuss and review the Risk Assessment with the Steering Committee. Discuss and review expectations for Public Meeting.
9/10/2015	Public Meeting	St. John the Baptist OHSEP, LaPlace, LA	Yes	The Public Meeting allowed the public and community stakeholders to participate and provide input into the hazard mitigation planning process. Maps of the St. John the Baptist Parish communities were provide for the meeting attendees to identify specific areas where localized hazards occur.
Ongoing	Public Survey Tool	Online	Yes	This survey asked participants about public perceptions and opinions regarding natural hazards in St. John the Baptist Parish. In addition, questions covered the methods and techniques preferred for reducing the risks and losses associated with these hazards. Survey Results: <a href="https://www.surveymonkey.com/results/SM-3WQQLVS2/">https://www.surveymonkey.com/results/SM-3WQQLVS2/</a>
2 Week Period	Public Plan Review (Digital)		Yes	Parish Website or other locations determined by Steering Committee

## Planning

The plan update process consisted of several phases:

	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
Plan Revision	[Greyed out]							
Data Collection	[Greyed out]							
Risk Assessment		[Greyed out]						
Public Input				[Greyed out]			[Greyed out]	
Mitigation Strategy and Actions				[Greyed out]				
Plan Review by GOHSEP and FEMA							[Greyed out]	
Plan Adoption							[Yellow]	
Plan Approval								[Green]

## Coordination

The St. John the Baptist Parish Office of Homeland Security and Emergency Preparedness (OHSEP) oversaw the coordination of the 2015 Hazard Mitigation Plan Update Steering Committee during the update process. The parish OHSEP was responsible for identifying members for the committee.

The Parish Director and SDMI were jointly responsible for inviting the Steering Committees and key stakeholders to planned meetings and activities. SDMI assisted the Parish Director with press releases and social media statements for notification to the media and general public for public meetings and public outreach activities.

SDMI was responsible for facilitating meetings and outreach efforts during the update process.

## Neighboring Community, Local and Regional Planning Process Involvement

From the outset of the planning process, the Steering Committee encouraged participation from a broad range of parish entities. The involvement of representatives from the city, state, and regional agencies provided diverse perspectives and mitigation ideas.

Formal participation in this plan includes but is not limited to the following activities:

- Participation in Hazard Mitigation Team meetings at the local and parish level
- Sharing local data and information
- Action item development
- Plan document draft review
- Formal adoption of the Hazard Mitigation Plan document following provisional approval by the State of Louisiana and FEMA

The 2015 Hazard Mitigation Plan Update Steering Committee consisted of representatives from the following parish, municipal, or community stakeholders:

- St. John the Baptist Parish Government
- St. John the Baptist Office of Homeland Security and Emergency Preparedness
- St. John the Baptist Parish Public Works
- St. John the Baptist Parish Fire Department
- St. John the Baptist Parish Law Enforcement
- St. John the Baptist Parish Council
- Non-governmental Organizations
- Faith Based Organizations
- State Agencies
- Federal Agencies
- Colleges and Universities
- Private Sector

In an effort to collaborate with neighboring communities as well as representatives outside agencies, St. John the Baptist Parish encouraged participation by extending an invitation to the Hazard Mitigation Plan Update meetings. Neighboring agencies and other contributing participants included the following: Department of Agriculture and Forestry, Department of Environmental Quality, Department of Health and Human Services, Department of Public Safety, Department of Transportation and Development, Department of Wildlife and Fisheries, Army Corps of Engineers, National Weather Service, and the Port of South Louisiana. The participation of the GOHSEP Region 3 Coordinator during the process also contributed to neighboring community representation.

As part of the coordination and planning process, the parish was provided the State Required Hazard Mitigation Plan Update Worksheet. The completed worksheets can be found in Appendix E – State Required Plan Update Worksheets.

Below is a detailed list of the 2015 HMPU Steering Committee:

Name	Organization	Email	Phone
Natalie Robottom	St. John the Baptist – Parish President	parishpres@sjbparish.com	
Kristi Muller	Building Code Enforcement	k.murray@sjbparish.com	985-651-5565
Michael Coburn	City Management/Parish Administration	m.coburn@sjbparish.com	985-652-9569
Travis Perrilloux	Emergency Management	t.perrilloux@sjbparish.com	985-652-2222
Cain Dufrene	Fire Department	c.dufrene@sjbparish.com	985-652-2222
Eric Wolverton	Floodplain Manager	e.wolverton@sjbparish.com	
Rebecca Hymel	GIS	r.hymel@sjbparish.com	985-652-9569
Kerry Watkins	Parks and Recreation	k.watkins@sjbparish.com	985-652-9569
Angelic Keller	Planning/Community Development	a.sutherland@sjbparish.com	985-652-9569
Brian Nunes	Public Works	b.nunes@sjbparish.com	985-652-4815
Reed Alexander	Stormwater Management	r.alexander@sjbparish.com	985-651-6800
Raymond Goodman	Transportation (Roads & Bridges)	r.goodman@sjbparish.com	
Michael Wright	City Council / Police Jury	district5@sjbparish.com	504-717-3936
Jeff Perriloux	City / Parish Attorney's Office		
Torri Buckles	Economic Development Agency	t.buckles@sjbparish.com	985-652-9569
Steve Guidry	Police / Sheriff's Department	s.guidry@stjohnsheriff.org	985-652-9513
Elton Oubre	Schools	e.oubre@stjohn.k12.la.us	985-536-1106

### Program Integration

Local governments are required to describe how their mitigation planning process is integrated with other ongoing local and area planning efforts. This subsection describes St. John the Baptist Parish programs and planning.

A measure of integration and coordination is achieved through the HMPU participation of Steering Committee members and community stakeholders who administer programs such as: floodplain management under the NFIP, coastal protection and restoration, parish planning and zoning, and building code enforcement.

St. John the Baptist Parish will continue to integrate the requirements of this Hazard Mitigation Plan into other local planning mechanisms that are to be identified through future meetings of the parish, and through the five-year review process described in the Plan Maintenance Section. The primary means for integrating mitigation strategies into other local planning mechanisms will be through the revision,

update, and implementation of any individual city/town plans that require specific planning and administrative tasks (e.g. Risk Assessment, plan amendments, ordinance revisions, capital improvement projects, etc.).

The members of the St. John the Baptist Parish Hazard Mitigation Steering Committee will remain charged with ensuring that the goals and strategies of new and updated local planning documents for their communities or agencies are consistent with the goals and actions of the Hazard Mitigation Plan, and will not contribute to increased hazard vulnerability in the parish. Existing plans, studies, and technical information were incorporated in the planning process. Examples include flood data from FEMA and the U. S. Geological Survey. Much of this data was incorporated into the Risk Assessment component of the plan relative to plotting historical events and the magnitude of damages that occurred. The parish's 2005 Hazard Mitigation Plan was also used in the planning process. Other existing data and plans used in the planning process include those listed below:

- Louisiana Coastal Master Plan
- Parish Emergency Operations Plan
- State of Louisiana Hazard Mitigation Plan

Further information on the plans can be found in the Capabilities Assessment, Section 3.

### [Meeting Documentation and Public Outreach Activities](#)

The following pages contain documentation of the meetings and public outreach activities conducted during this Hazard Mitigation Plan Update for St. John the Baptist Parish.

#### [Meeting #1: Initial Conference Call](#)

**Date:** November 20, 2014

**Location:** Teleconference

**Purpose:** Discuss with Parish HM Coordinator and any Steering Committee members expectations and requirements of the project.

**Public Initiation:** No

**Meeting Invitees:**

-SDMI Staff

-St. John the Baptist Parish OHSEP Staff

## Meeting #2: Hazard Mitigation Plan Update Kickoff

**Date:** February 25, 2015**Location:** LaPlace, Louisiana**Purpose:** Members of the St. John the Baptist Parish Hazard Mitigation Plan Update Steering Committee were presented the results of the risk assessment and an overview of the Public Meeting presentation during this overview. The assessment was conducted based on hazards identified during previous plans and on any newly identified risks.**Public Initiation:** No**Meeting Invitees:**

Name	Organization
Natalie Robottom	St. John the Baptist Parish President
Kristi Muller	Building Code Enforcement
Michael Coburn	City Management/Parish Administration
Travis Perrilloux	Emergency Management
Cain Dufrene	Fire Department
Eric Wolverton	Floodplain Manager
Rebecca Hymel	GIS
Kerry Watkins	Parks and Recreation
Angelic Keller	Planning/Community Development
Brian Nunes	Public Works
Reed Alexander	Stormwater Management
Raymond Goodman	Transportation (Roads & Bridges)
Michael Wright	City Council / Police Jury
Jeff Perriloux	City / Parish Attorney's Office
Torri Buckles	Economic Development Agency
Steve Guidry	Police / Sheriff's Department
Elton Oubre	Schools
Melanie Cole	American Red Cross
Neil Bernard	Faith Based Organizations
Kerry Jones	Utility Companies
Jay Meadows	Department of Ag & Forestry
Mike Algero	Department of Environmental Quality
Kayla Guerrero	Department of Health & Human Services
Captain Donovan Archote	Department of Public Safety
Allison Schilling	Department of Transportation and Development
Captain Steve McManus	Department of Wildlife and Fisheries
Pam Roussel	Homeland Security and Emergency Preparedness
Travis Creel	Army Corps of Engineers
Frank Revitte	National Weather Service
Cindy Poskey	Colleges / Universities
Gail Watts	Major Employers & Businesses
Dale Hymel	Neighboring Jurisdictions – St. James Parish President

## Meeting #3: Risk Assessment Overview

**Date:** September 10, 2015**Location:** LaPlace, Louisiana**Purpose:** The Risk Assessment Meeting allowed the Steering Committee and community stakeholders to participate and provide input into the hazard mitigation planning process, specifically the risk assessment section. A map of St. John the Baptist Parish was provided for the meeting attendees to identify specific areas where localized hazards occur.**Public Initiation:** No**Meeting Invitees:**

Name	Organization
Natalie Robottom	St. John the Baptist Parish President
Kristi Muller	Building Code Enforcement
Michael Coburn	City Management/Parish Administration
Travis Perrilloux	Emergency Management
Cain Dufrene	Fire Department
Eric Wolverton	Floodplain Manager
Rebecca Hymel	GIS
Kerry Watkins	Parks and Recreation
Angelic Keller	Planning/Community Development
Brian Nunes	Public Works
Reed Alexander	Stormwater Management
Raymond Goodman	Transportation (Roads & Bridges)
Michael Wright	City Council / Police Jury
Jeff Perrilloux	City / Parish Attorney's Office
Torri Buckles	Economic Development Agency
Steve Guidry	Police / Sheriff's Department
Elton Oubre	Schools
Melanie Cole	American Red Cross
Neil Bernard	Faith Based Organizations
Kerry Jones	Utility Companies
Jay Meadows	Department of Ag & Forestry
Mike Algero	Department of Environmental Quality
Kayla Guerrero	Department of Health & Human Services
Captain Donovan Archote	Department of Public Safety
Allison Schilling	Department of Transportation and Development
Captain Steve McManus	Department of Wildlife and Fisheries
Pam Roussel	Homeland Security and Emergency Preparedness
Travis Creel	Army Corps of Engineers
Frank Revitte	National Weather Service
Cindy Poskey	Colleges / Universities
Gail Watts	Major Employers & Businesses
Dale Hymel	Neighboring Jurisdictions – St. James Parish President

## Meeting #4: Public Meeting

**Date:** September 10, 2015**Location:** LaPlace, LA**Purpose:** The Public Meeting allowed the public and community stakeholders to participate and provide input into the hazard mitigation planning process. A map of the St. John the Baptist Parish was provided for the meeting attendees to identify specific areas where localized hazards occur.**Public Initiation:** Yes**Meeting Invitees:**

Name	Organization
Natalie Robottom	St. John the Baptist Parish President
Kristi Muller	Building Code Enforcement
Michael Coburn	City Management/Parish Administration
Travis Perrilloux	Emergency Management
Cain Dufrene	Fire Department
Eric Wolverton	Floodplain Manager
Rebecca Hymel	GIS
Kerry Watkins	Parks and Recreation
Angelic Keller	Planning/Community Development
Brian Nunes	Public Works
Reed Alexander	Stormwater Management
Raymond Goodman	Transportation (Roads & Bridges)
Michael Wright	City Council / Police Jury
Jeff Perrilloux	City / Parish Attorney's Office
Torri Buckles	Economic Development Agency
Steve Guidry	Police / Sheriff's Department
Elton Oubre	Schools
Melanie Cole	American Red Cross
Neil Bernard	Faith Based Organizations
Kerry Jones	Utility Companies
Jay Meadows	Department of Ag & Forestry
Mike Algero	Department of Environmental Quality
Kayla Guerrero	Department of Health & Human Services
Captain Donovan Archote	Department of Public Safety
Allison Schilling	Department of Transportation and Development
Captain Steve McManus	Department of Wildlife and Fisheries
Pam Roussel	Homeland Security and Emergency Preparedness
Travis Creel	Army Corps of Engineers
Frank Revitte	National Weather Service
Cindy Poskey	Colleges / Universities
Gail Watts	Major Employers & Businesses
Dale Hymel	Neighboring Jurisdictions – St. James Parish President

#### Outreach Activity #1: Public Opinion Survey

**Date:** Ongoing throughout planning process

**Location:** Web survey

**Public Initiation:** Yes

#### Outreach Activity #2: Incident Questionnaire

**Date:** Public Meeting Activity

**Location:** Public Meeting

**Public Initiation:** Yes

#### Outreach Activity #3: Mapping Activities

Public meeting attendees were asked to identify areas on parish maps provided that were “problem areas.” They were also asked to indicate any areas of new development. This activity gave the public an opportunity to interact with SDMI’s GIS Mapping division, as well as provide valuable input on areas that may flood repeatedly during rain events that may not get reported to local emergency managers as significant events.

## Appendix B: Plan Maintenance

### Purpose

The section of the Code of Federal Regulations (CFR) pertaining to Local Mitigation Plans lists five required components for each plan: a description of the planning process; risk assessments; mitigation strategies; a method and system for plan maintenance; and documentation of plan adoption. This section details the method and system for plan maintenance, following the CFR's guidelines that the Plan Update must include (1) "a section describing the method and schedule of monitoring, evaluating, and updating the mitigation plan within a five-year cycle," (2) "a process by which local governments incorporated the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans", and (3) "discussion on how the community will continue public participation in the plan maintenance process."

### Monitoring, Evaluating, and Updating the Plan

The St. John the Baptist Parish Planning Committee will be responsible for monitoring, evaluating, and documenting the plan's progress throughout the year. Part of the plan maintenance process should include a system by which local governing bodies incorporate the HMP into the parish's comprehensive or capital improvement plans. This process provides for continued public participation through the diverse resources of the parish to help in achieving the goals and objectives of the plan. Public participation will be achieved through availability of copies of HMP in parish public library and parish website. This section describes the whole update process which includes the following:

- Responsible parties
- Methods to be used
- Evaluation criteria to be applied
- Scheduling for monitoring and evaluating the plan

### Responsible Parties

St. John the Baptist Parish has developed a method to ensure that a regular review and update of the Hazard Mitigation Plan occurs. This will be the responsibility of the steering committee, which consists of representatives from governmental organizations, local businesses, and private citizens, who will be involved in the process of monitoring, evaluating and updating the plan. All committee members in this plan will remain active in the steering committee.

Although the people filling the positions may change from year to year, the parish and its stakeholders will have representatives on the Steering Committee. The future Steering Committee will continue to be comprised of the same job functions as currently evident in the Steering Committee. However, the decision of specific job duties will be left to the Parish OHSEP Director to be assigned as deemed appropriate.

### Methods for Monitoring and Evaluating the Plan and Plan Evaluation Criteria

St. John the Baptist Parish has developed a method to ensure monitoring, evaluating, and updating of the HMP occurs during the five-year cycle of the plan. The planning committee will become a permanent body and will be responsible for monitoring, evaluating, and updating of the plan. The planning committee meeting will be held annually in order to monitor, evaluate, and update the plan. The St. John the Baptist Parish OHSEP Director will be responsible for conducting the annual planning committee meetings.

The lead person of the agency responsible for the implementation of a specific mitigation action will submit a progress report to the Director at least thirty days prior to the planning committee meeting. The progress report will provide project status monitoring to include the following: whether the project has started; if not started, reason for not starting; if started, status of the project; if the project is completed, whether it has eliminated the problem; and any changes recommended to improve the implementation of the project etc. In addition, the progress report will provide status monitoring on the plan evaluation, changes to the hazard profile, changes to the risk assessment, and public input on the Hazard Mitigation Plan updates and reviews.

Progress on the mitigation action items and projects will be reviewed during the annual planning committee meeting. The criteria that would be utilized in the project review will include the following:

- 1) Whether the action was implemented and reasons, if the action was not implemented
- 2) What were the results of the implemented action
- 3) Were the outcomes as expected, and reasons if the outcomes were not as expected
- 4) Did the results achieve the stated goals and objectives
- 5) Was the action cost-effective
- 6) What were the losses avoided after completion of the project
- 7) In case of a structural project, did it change the hazard profile

In addition to monitoring and evaluating the progress of the mitigation plan actions and projects, the mitigation plan is required to be maintained and monitored annually, and updated every five years. The annual maintenance, monitoring and evaluation of the plan will be conducted in the annual planning committee meeting. The planning committee will review each goal and objective to determine their relevance to changing situations in the parish, as well as changes to state or federal policy, and to ensure that they are addressing current and expected conditions. The planning committee will evaluate if any change in hazard profile and risk in the parish occurred during the past year. In addition, the evaluation will include the following criteria in respect of plan implementation:

- 1) Any local staffing changes that would warrant inviting different members to the planning committee
- 2) Any new organizations that would be valuable in the planning process or project implementation need to be included in the planning committee
- 3) Are there any procedures that can be done more efficiently
- 4) Are there more ways to gain more diverse and widespread cooperation
- 5) Are there any different or additional funding sources available for mitigation planning and implementation

The HMP will be updated every five years to remain eligible for continued HMGP funding. The planning committee will be responsible for updating the HMP. The OHSEP Director will be the lead person for the HMP update. The HMP update process will commence at least one year prior to the expiration of the plan.

The HMP will be updated after a major disaster if an annual evaluation of the plan indicate a substantial change in hazard profile and risk assessment in the parish.

Additionally, the public will be canvassed to solicit public input to continue St. John the Baptist Parish's dedication to involving the public directly in review and updates of the Hazard Mitigation Plan. Meetings will be scheduled as needed by the plan administrator to provide a forum for which the public can express their concerns, opinions, and/or ideas about the plan. The plan administrator will be responsible for using parish resources to publicize the annual public meetings and maintain public involvement through the newspapers, radio, and public access television channels. Copies of the plan will be catalogued and kept at all appropriate agencies in the city government, as well as at the Public Library.

The review by the steering committee and input from the public will determine whether a plan update is needed prior to the required five-year update.

Annual Reports on the progress of actions, plan maintenance, monitoring, evaluation, incorporation into existing planning programs, and continued public involvement will be documented at each annual meeting of the committee and kept by the Parish OHSEP Director. The Steering Committee will work together as a team, with each member sharing responsibility for completing the monitoring, evaluation and updates. It is the responsibility of the Parish OHSEP Director for contacting committee members, organizing the meeting and providing public noticing for the meeting to solicit public input.

### 2015 Plan Version Plan Method and Schedule Evaluation

For the current plan update, the previously approved plan's method and schedule were evaluated to determine if the elements and processes involved in the required 2015 update. Based on this analysis, the method and schedule were deemed to be acceptable, and nothing was changed for this update.

### Incorporation into Existing Planning Programs

It is and has been the responsibility of the St. John the Baptist Parish Hazard Mitigation Plan Steering Committee and participating jurisdictions to determine additional implementation procedures when appropriate. This may include integrating the requirements of the St. John the Baptist Parish Hazard Mitigation Plan into each jurisdiction's planning documents, processes, or mechanisms as follows:

- Ordinances, Resolutions, Regulations
- Emergency Operations Plan (Parish)
- Comprehensive Economic Development Strategy (Parish)
- Continuity of Operations Plan (Parish)
- State of Louisiana Hazard Mitigation Plan

Opportunities to integrate the requirements of this plan into other local planning mechanisms will continue to be identified through future meetings of the St. John the Baptist Parish Hazard Mitigation Steering Committee and through the five-year review process described herein. The primary means for integrating mitigation strategies into other local planning mechanisms will be through the revision, update and implementation of each jurisdiction's individual plans that require specific planning and administrative tasks (e.g. risk assessment, plan amendments, ordinance revisions, capital improvement projects, etc.). The members of the steering committee will meet with Department Heads to discuss what should be included in the changes that are necessary before the changes are introduced to the city council or police jury meetings.

Steering committee members will remain charged with ensuring that the goals and strategies of new and updated local planning documents for their jurisdictions or agencies are consistent with the goals and actions of the St. John the Baptist Parish Hazard Mitigation Plan, and will not contribute to increased hazard vulnerability within the parish.

During the planning process for new and updated local planning documents at the parish and jurisdiction level, such as a risk assessment, comprehensive plan, capital improvements plan, or emergency operations plan, the jurisdictions will provide a copy of the Parish Hazard Mitigation Plan to the appropriate parties and recommend that all goals and strategies of new and updated local planning documents are consistent with and support the goals of the Parish Hazard Mitigation Plan and will not contribute to increased hazards.

Although it is recognized that there are many possible benefits to integrating components of this plan into other parish and jurisdiction planning mechanisms, the development and maintenance of this stand-alone Hazard Mitigation Plan is deemed by the steering committee to be the most effective and appropriate method to ensure implementation of parish and local hazard mitigation actions.

On behalf of Unincorporated St. John the Baptist, St. John the Baptist Parish has the authority to incorporate the contents of the Hazard Mitigation Plan into the parish's existing regulatory mechanisms. Agreements are currently in place with jurisdictions to allow for the parish incorporation mechanisms to take place.

The following parish and local plans incorporate requirements of this HMP Update as follows through steering committee member and jurisdiction representation throughout the planning process as described above:

- Comprehensive Master Plan – Updated as annually, St. John the Baptist Parish Community Development is the responsible agency
- Local Emergency Operations Plan – Updated annually, St. John the Baptist Parish OHSEP is the responsible agency.

### Continued Public Participation

Public participation is an integral component of the mitigation planning process and will continue to be essential as this plan evolves over time. Significant changes or amendments to the plan require a public hearing prior to any adoption procedures. Other efforts to involve the public in the maintenance, evaluation, and revision process will be made as necessary. These efforts will include at least one of the following:

- Advertising meetings of the Mitigation Committee in the local newspaper, public bulletin boards, and/or city and county office buildings
- Designating willing and voluntary citizens and private sector representatives as official members of the Mitigation Committee
- Utilizing local media to update the public of any maintenance and/or periodic review activities taking place
- Utilizing city and parish web sites to advertise any maintenance and/or periodic review activities taking place
- Keeping copies of the plan in appropriate public locations

## Appendix C: Essential Facilities

## St. John the Baptist Parish

St. John the Baptist Essential Facilities							
Type	Name	Flood	Hail	Wind	Lightning	Tornado	Tropical Cyclone
Fire and Rescue	Garyville Fire Dept		X	X	X	X	X
	Garyville Fire Dept 72		X	X	X	X	X
	LaPlace Volunteer Fire Department		X	X	X	X	X
	LaPlace Volunteer Fire Department		X	X	X	X	X
	LaPlace Volunteer Fire Department Station 2		X	X	X	X	X
	St John Fire Station 3		X	X	X	X	X
	St John Fire Dept		X	X	X	X	X
	LaPlace Fire Dept 55		X	X	X	X	X
	LaPlace Volunteer Fire Department Station 55		X	X	X	X	X
	Reserve Fire Dept		X	X	X	X	X
	Reserve Fire Dept		X	X	X	X	X
	Reserve Station 3		X	X	X	X	X
	Reserve Station 65		X	X	X	X	X
	St John Substation 92		X	X	X	X	X
St John Station 93		X	X	X	X	X	
Corrections	Sherman R. Walker Correctional Center		X	X	X	X	X
Government	Frazer Harris Branch Library		X	X	X	X	X
	Army Navy Recruiting		X	X	X	X	X
	Civic Center		X	X	X	X	X
	DOTD Maintenance Yard and Marine Operations		X	X	X	X	X

St. John the Baptist Essential Facilities							
Type	Name	Flood	Hail	Wind	Lightning	Tornado	Tropical Cyclone
	Edmond Skipper Songy Service Center		X	X	X	X	X
	LA Fifth Circuit Court of Appeal Judge Jude E. Gravois		X	X	X	X	X
	Recycling		X	X	X	X	X
	St. John Council Office		X	X	X	X	X
	St. John Parish Animal Shelter		X	X	X	X	X
	St. John Percy D. Hebert Building		X	X	X	X	X
	St. John Public Works Office		X	X	X	X	X
	St. John the Baptist Clerk of Court and Traffic Court		X	X	X	X	X
	St. John the Baptist Parish Office of Community Services - DSS		X	X	X	X	X
	St. John the Baptist Parish Office of Family Support DSS		X	X	X	X	X
	Weight Station		X	X	X	X	X
	Department of Veteran Affairs		X	X	X	X	X
	Drivers License Bureau		X	X	X	X	X
	Eliana DeFrancesch - Clerk of Court		X	X	X	X	X
	Louisiana National Guard		X	X	X	X	X
	St John Library		X	X	X	X	X
	St John Parish Juvenile Services		X	X	X	X	X
	St John Recycling Drop off		X	X	X	X	X
	Roland Borne Memorial Library		X	X	X	X	X
	St John Courthouse		X	X	X	X	X
	911 Communications		X	X	X	X	X

St. John the Baptist Essential Facilities							
Type	Name	Flood	Hail	Wind	Lightning	Tornado	Tropical Cyclone
Law Enforcement	Sheriff's Office Criminal Investigation Div		X	X	X	X	X
	Garyville Substation		X	X	X	X	X
	Sheriff's Office Young Marines		X	X	X	X	X
Public Health	River Parishes Hospital		X	X	X	X	X
	Louisiana Veteran's Hospital		X	X	X	X	X
	River Parishes Hospital Medical Pavilion		X	X	X	X	X
Schools	Garyville Grammar School		X	X	X	X	X
	Mt. Airy		X	X	X	X	X
	Ascension of our Lord		X	X	X	X	X
	Ascension of our Lord Pre School		X	X	X	X	X
	Catholic High		X	X	X	X	X
	Emily C. Watkins Elementary School		X	X	X	X	X
	Faith Healing and Deliverance Ministries Christian Academy		X	X	X	X	X
	Garden of Eden Christian Academy		X	X	X	X	X
	John L Ory Elementary School		X	X	X	X	X
	Lake Pontchartrain Elementary School		X	X	X	X	X
	LaPlace Elementary K-8		X	X	X	X	X
	Milesville Special Education Center		X	X	X	X	X
	St. Joan of Arc Catholic School		X	X	X	X	X
	St. Joan of Arc Middle School		X	X	X	X	X
	East John Elementary		X	X	X	X	X
	East St John High		X	X	X	X	X
East St. John Elementary School		X	X	X	X	X	
East St. John High School		X	X	X	X	X	

St. John the Baptist Essential Facilities							
Type	Name	Flood	Hail	Wind	Lightning	Tornado	Tropical Cyclone
	Fifth Ward Elementary		X	X	X	X	X
	Leon Godchoux Junior High		X	X	X	X	X
	Leon Godchoux School		X	X	X	X	X
	Our Lady of Grace		X	X	X	X	X
	Riverside Academy		X	X	X	X	X
	St John Alternative School		X	X	X	X	X
	West St John High		X	X	X	X	X
Nursing Homes	Twin Oaks Nursing Home		X	X	X	X	X

## Appendix D: Plan Adoption

ST. JOHN THE BAPTIST PARISH COUNCIL  
STATE OF LOUISIANA

RESOLUTION  
16-34

Mrs. Remondet proposed and Mr. Snyder seconded the following resolution:

**THE ST. JOHN THE BAPTIST PARISH COUNCIL HEREBY RESOLVES:**

A resolution for adoption of the Parish-wide Hazard Mitigation Plan.

**WHEREAS**, St. John the Baptist Parish's original hazard mitigation plan was adopted in 2006 and that this plan is an update to the original hazard mitigation plan, and;

**WHEREAS**, the updated hazard mitigation plan will remain Supplement 1 to the Parish's Emergency Operations Plan, and;

**WHEREAS**, St. John the Baptist Parish has received grant funds from the Federal Emergency Management Agency, through the Governor's Office of Homeland Security and Emergency Preparedness, for the update of its 2006 hazard mitigation plan, and;

**WHEREAS**, our community has participated in the process to update a DMA compliant Hazard Mitigation Plan based on the FEMA guidance available in the How-to-Guides, and;

**WHEREAS**, St. John the Baptist Parish and local representatives and governments have participated in the mitigation planning process, and;

**WHEREAS**, appropriate opportunity for input by public and community officials has been provided through press releases, open meetings and availability of draft documents, and;

**WHEREAS**, the updated Plan has been recommended for adoption by the Steering Committee, and;

**WHEREAS**, adoption of the updated Plan is required prior to further consideration for FEMA funding under the following programs:

- Pre-Disaster Mitigation
- Hazard Mitigation Grant Program
- Flood Mitigation Assistance Program

**WHEREAS**, St. John the Baptist Parish's revised hazard mitigation plan was adopted in 2011, and that this plan is an update to the 2011 revision.

**NOW, THEREFORE BE IT RESOLVED**, that the St. John the Baptist Parish Council does hereby adopt the St. John the Baptist Parish Hazard Mitigation Plan Update as supplement one (1) to the St. John the Baptist Parish's all Hazard Emergency Operations Plan.

The above resolution having been submitted to a vote; the vote thereon was as follows:

**YEAS:** Sorapur, Becnel, Remonet, Madere, Perrilloux, Wright, Snyder, Boe

**NAYS:** None      **ABSENT:** Hotard      **ABSTAINING:** None

The result of the vote on the resolution was 8 **YEAS**, 0 **NAYS**, 1 **ABSENT** and 0 **ABSTAINING** and this ordinance was declared adopted on the 10<sup>th</sup> day of May, 2016.

 COUNCIL CHAIR	 SECRETARY	 PARISH PRESIDENT
<u>5/18/16</u> Date signed	<u>5/11/16</u> Date signed	<u>5/12/16</u> Date signed

**CERTIFIED**, to be a true and correct copy of a resolution adopted by the St. John the Baptist Parish Council on the 10<sup>th</sup> day of May, 2016.




## Appendix E: State Required Worksheets

During the planning process (Appendix A) the Hazard Mitigation Plan Update Steering Committee was provided state-required plan update process worksheets to be filled out. The worksheets were presented at the Kickoff Meeting by SDMI as tools for assisting in the update of the Hazard Mitigation Plan, but also as a State Requirement (Element E) for the update. The plan update worksheets allowed for collection of information such as planning team members, community capabilities, critical infrastructure and vulnerable populations and NFIP information. The following pages contain documentation of the state required worksheets.

Capability Assessment

Planning and Regulatory		
Please indicate which of the following plans and regulatory capabilities your jurisdiction has in place.		
	<i>St. John the Baptist Parish</i>	Comments
Plans	Yes / No	Comments
Comprehensive / Master Plan	Yes	Adopted 2014
Capital Improvements Plan	No	n/a
Economic Development Plan	No	n/a
Local Emergency Operations Plan	Yes	Every 4 years.
Continuity of Operations Plan	No	n/a
Transportation Plan	No	n/a
Stormwater Management Plan	No	n/a
Community Wildfire Protection Plan	No	n/a
Other plans (redevelopment, recovery, coastal zone management)	No	n/a
Building Code, Permitting and Inspections	Yes / No	Comments
Building Code	Yes	Version / Year • International Residential Code , 2012 • International Building Code, 2012 • International Existing Building Code, 2012 • International Mechanical Code, 2012 • International Fuel Gas Code, 2012 • Louisiana State Plumbing Code, 2013 • National Electric Code, 2011
Building Code Effectiveness Grading Schedule (BCEGS) Score	Yes	Score = Third class for 1 and 2 family residential and third class for commercial and industrial
Fire Department ISO/PIAL rating	No	n/a
Site plan review requirements	Yes	n/a
Land Use Planning and Ordinances	Yes / No	Comments
Zoning Ordinance	Yes	Yes
Subdivision Ordinance	Yes	Yes
Floodplain Ordinance	Yes	Yes
Natural Hazard Specific Ordinance (stormwater, steep slope, wildfire)	No	n/a
Flood Insurance Rate Maps	Yes	Yes
Acquisition of land for open space and public recreation uses	No	n/a
Other	No	n/a

St. John the Baptist Parish		Comments
<b>Administration and Technical</b>		
Identify whether your community has the following administrative and technical capabilities. For smaller jurisdictions without local staff resources, if there are public resources at the next higher level government that can provide technical assistance, indicate so in your comments.		
Administration	Yes / No	Comments
Planning Commission	Yes	n/a
Mitigation Planning Committee	No	n/a
Maintenance programs to reduce risk (tree trimming, clearing drainage systems)	No	n/a
Staff	Yes / No;	
Chief Building Official	Yes	Third Party Contractor
Floodplain Administrator	Yes	n/a
Emergency Manager	Yes	n/a
Community Planner	No	n/a
Civil Engineer	No	n/a
GIS Coordinator	Yes	n/a
Grant Writer	No	n/a
Other	No	n/a
Technical	Yes / No	
Warning Systems / Service (Reverse 911, outdoor warning signals)	No	n/a
Hazard Data & Information	No	n/a
Grant Writing	No	n/a
Hazus Analysis	No	n/a
Other	No	n/a
St. John the Baptist Parish		Comments
<b>Financial</b>		
Identify whether your jurisdiction has access to or is eligible to use the following funding resources for hazard mitigation.		
Funding Resource	Yes / No	
Capital Improvements project funding	No	n/a
Authority to levy taxes for specific purposes	No	n/a
Fees for water, sewer, gas, or electric services	No	n/a
Impact fees for new development	No	n/a
Stormwater Utility Fee	No	n/a
Community Development Block Grant (CDBG)	No	n/a
Other Funding Programs	No	n/a

	St. John the Baptist Parish	Comments
<b>Education and Outreach</b>		
Identify education and outreach programs and methods, already in place that could be used to implement mitigation activities and communicate hazard-related information.		
<b>Program / Organization</b>	<b>Yes / No</b>	
Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc.	No	n/a
Ongoing public education or information program (responsible water use, fire safety, household preparedness, environmental education)	No	n/a
Natural Disaster or safety related school program	No	n/a
Storm Ready certification	No	n/a
Firewise Communities certification	No	n/a
Public/Private partnership initiatives addressing disaster-related issues	No	n/a
Other	No	n/a

## Building Inventory

Name of Building	Purpose of Building	Address	City	Latitude	Longitude	Assessed Value	Date Built	Construction Type
ST. JOHN COUNCIL ON AGING (WEST BANK)	MUNICIPAL	155 E 3RD ST	EDGARD	30.044299	-90.559784	100,000	1978	Wood
ST. JOHN ADMIN/MAINTENANCE BUILDING	MUNICIPAL	149 E 3RD ST	EDGARD	30.04445	-90.559783	126,720	n/a	Wood
ST. JOHN PARISH COURT HOUSE	MUNICIPAL	2393 HWY 18	EDGARD	30.045459	-90.559588	n/a	n/a	n/a
WESTBANK COMMUNITY CENTER	MUNICIPAL	173 E 3RD ST	EDGARD	30.043677	-90.559791	n/a	n/a	Reinforced Masonry
GARYVILLE SERVICE CENTER	MUNICIPAL	492 HISTORIC MAIN ST	GARYVILLE	30.057023	-90.617525	320,000	1980	Concrete
EMERGENCY OPERATIONS CENTER/911 CENTER	MUNICIPAL	1801 W AIRLINE HWY	LAPLACE	30.072224	-90.499634	2,000,000	1989	Steel
LAPLACE SERVICE CENTER	MUNICIPAL	102 E AIRLINE HWY	LAPLACE	30.065863	-90.480436	275,000	1975	Steel
PERCY HEBERT GOVERNMENT COMPLEX	MUNICIPAL	1801 W AIRLINE HWY	LAPLACE	30.072314	-90.499917	4,000,000	1975	Concrete
ST JOHN COUNCIL OFFICE	MUNICIPAL	1805 W AIRLINE HWY	LAPLACE	30.072079	-90.500176	300,000	1970	Concrete
ST JOHN ARCURI CENTER	MUNICIPAL	1020 CAMBRIDGE DR	LAPLACE	30.072497	-90.484607	425,000	1985	Concrete
ST JOHN COMMUNITY CENTER	MUNICIPAL	2900 HWY 51	LAPLACE	30.073041	-90.476239	7,500,000	2006	Steel
PORT OF SOUTH LA	MUNICIPAL	171 BELLE TERRE BLVD	LAPLACE	30.075958	-90.501657	n/a	n/a	n/a
LOUISIANA ARMY NATIONAL GUARD	MUNICIPAL	4120 W AIRLINE HWY	RESERVE	30.077878	-90.575812	n/a	n/a	n/a
ST JOHN COUNCIL ON AGING (EAST BANK)	MUNICIPAL	214 REGALA PARK DR	RESERVE	30.079769	-90.571891	1,250,000	2006	Wood
ST JOHN HEALTH & HUMAN SERVICES	MUNICIPAL	128 CENTRAL AVE	RESERVE	30.054665	-90.551249	105,000	1990	Wood
PORT OF SOUTH LOUISIANA GLOBALPLEX	MUNICIPAL	1692 HWY 44	RESERVE	30.056495	-90.566041	n/a	n/a	n/a

Name of Building	Purpose of Building	Address	City	Latitude	Longitude	Assessed Value	Date Built	Construction Type
ST JOHN PARISH LIBRARY (EDGARD)	LIBRARY	2979 HWY 18	EDGARD	30.046202	-90.582422	750,000	2000	Wood
ST JOHN PARISH LIBRARY (GARYVILLE)	LIBRARY	111 HISTORIC FRONT ST	GARYVILLE	30.058059	-90.618785	800,000	2005	Wood
ST JOHN PARISH CENTRAL LIBRARY	LIBRARY	2920 HWY 51	LAPLACE	30.075483	-90.474415	3,250,000	2002	Steel
ST JOHN PARISH LIBRARY (RESERVE)	LIBRARY	170 W 10TH ST	RESERVE	30.058088	-90.563666	1,000,000	1985	Wood
HOMER BOOGIE JOSEPH CENTER	MUNICIPAL	366 NW 2ND ST	RESERVE	30.063605	-90.554569	100,000	1995	Wood
CENTRAL FIRE STATION 91	FIRE STATION	3347 HWY 18	EDGARD	30.041354	-90.595423	490,000	2004	Metal
LUCY RIVER ROAD STATION 93	FIRE STATION	1283 HWY 18	EDGARD	30.044723	-90.516905	25,000	1989	Metal
COMMUNITY CENTER STATION 95	FIRE STATION	173 E 3RD ST	EDGARD	30.043549	-90.559729	n/a	n/a	Metal
DUANE CROTY MEMORIAL 71	FIRE STATION	418 HISTORIC WEST ST	GARYVILLE	30.054698	-90.617541	150,000	1988	Reinforced Masonry
MONTEGUT FIRE STATION 52	FIRE STATION	801 WALNUT ST	LAPLACE	30.061695	-90.47616	88,000	1987	Metal
ST ANDREWS FIRE STATION 53	FIRE STATION	1703 ST ANDREWS BLVD	LAPLACE	30.093161	-90.502646	315,000	1988	Concrete
WOODLAND FIRE STATION 54	FIRE STATION	220 WOODLAND DR	LAPLACE	30.088748	-90.451876	128,000	1993	Metal
BELLE POINTE FIRE STATION 55	FIRE STATION	1401 BELLE POINTE BLVD	LAPLACE	30.079098	-90.522829	122,000	1993	Metal
MT SIRY STATION 72	FIRE STATION	3772 HWY 44	MT. AIRY	30.049631	-90.635738	90,225	1990	Metal
PORT COMMISSION FIRE RIVER RESCUE	RIVER RESCUE	1403 HWY 44	RESERVE	30.052989	-90.555275	n/a	n/a	n/a
CENTRAL FIRE STATION 61	FIRE STATION	105 FIREHOUSE LN	RESERVE	30.060496	-90.562103	66,000	1959	Concrete
LEBRUN MAURIN MEMORIAL 62	FIRE STATION	378 RAILROAD AVE	RESERVE	30.061265	-90.562909	58,000	1982	Metal
STEPHEN MAURIN MEMORIAL 63	FIRE STATION	1152 HWY 44	RESERVE	30.052409	-90.54566	168,000	1989	Concrete
ROSENWALD STATION 64	FIRE STATION	394 ROSENWALD DR	RESERVE	30.07387	-90.57189	11,000	1993	Metal
AMERICAN LEGION STATION 65	FIRE STATION	337 CENTRAL AVE	RESERVE	30.061809	-90.552154	1,150,000	2007	Metal

Name of Building	Purpose of Building	Address	City	Latitude	Longitude	Assessed Value	Date Built	Construction Type
PLEASURE BEND STATION 94	FIRE STATION	1200 HWY 643	VACHERIE	29.918614	-90.627877	151,000	2002	Metal
WALLACE RIVER ROAD STATION 92	FIRE STATION	5733 HWY 18	WALLACE	30.042298	-90.669109	58,000	1993	Metal
WEST ST JOHN ELEM	SCHOOL	2555 HWY 18	EDGARD	30.044756	-90.566335	n/a	n/a	n/a
WEST ST JOHN HIGH	SCHOOL	480 HWY 3127	EDGARD	30.016689	-90.553093	n/a	n/a	n/a
GARYVILLE/MT AIRY MAGNET	SCHOOL	240 HWY 54	GARYVILLE	30.045442	-90.624661	n/a	n/a	n/a
REDIRECTION CENTER	SCHOOL	152 ANTHONY F MONICA ST	GARYVILLE	30.057142	-90.618697	n/a	n/a	n/a
ST JOHN CHILD DEVELOPMENT CENTER	SCHOOL	117 STEBBINS ST	GARYVILLE	30.047641	-90.613636	n/a	n/a	n/a
ASCENSION OF OUR LORD	SCHOOL	1809 GREENWOOD DR	LAPLACE	30.084309	-90.481238	n/a	n/a	n/a
LAKE PONTCHARTRAIN ELEM	SCHOOL	3328 HWY 51	LAPLACE	30.081501	-90.467839	n/a	n/a	n/a
JOHN L ORY	SCHOOL	182 W 5TH ST	LAPLACE	30.066135	-90.486332	n/a	n/a	n/a
LAPLACE ELEM	SCHOOL	393 GREENWOOD DR	LAPLACE	30.081296	-90.491905	n/a	n/a	n/a
ST CHARLES CATHOLIC	SCHOOL	100 DOMINICAN DR	LAPLACE	30.075578	-90.494274	n/a	n/a	n/a
ST JOAN OF ARC CATHOLIC	SCHOOL	412 FIR ST	LAPLACE	30.068256	-90.499129	n/a	n/a	n/a
EAST ST JOHN ELEM	SCHOOL	400 ORY DR	LAPLACE	30.073116	-90.51982	n/a	n/a	n/a
EMILY C WATKINS ELEM	SCHOOL	938 HWY 628	LAPLACE	30.056225	-90.477056	n/a	n/a	n/a
MILESVILLE TESTING CENTER	SCHOOL	538 W 2ND ST	LAPLACE	30.060492	-90.503917	n/a	n/a	n/a
ST JOHN ARC WORK ACTIVITY CENTER	SCHOOL	101 BAMBOO RD	LAPLACE	30.083251	-90.467453	550,000	1992	Wood
EAST ST JOHN HIGH	SCHOOL	1 GIORDANO LN	RESERVE	30.078811	-90.531126	n/a	n/a	n/a
5TH WARD ELEM	SCHOOL	158 PANTHER DR	RESERVE	30.053322	-90.531654	n/a	n/a	n/a
SOUTH CENTRAL LA TECHNICAL COLLEGE	SCHOOL	181 REGALA PARK RD	RESERVE	30.078615	-90.568617	n/a	n/a	n/a
LEON GODCHAUX	SCHOOL	1880 HWY 44	RESERVE	30.057656	-90.573252	n/a	n/a	n/a

Name of Building	Purpose of Building	Address	City	Latitude	Longitude	Assessed Value	Date Built	Construction Type
SCHOOL BOARD OFFICE COMPLEX	SCHOOL	118 W 10TH ST	RESERVE	30.056288	-90.563804	n/a	n/a	n/a
OUR LADY OF GRACE	SCHOOL	780 HWY 44	RESERVE	30.051078	-90.531506	n/a	n/a	n/a
LIFE HOUSE DANIEL ACADEMY	SCHOOL	3550 W AIRLINE HWY	RESERVE	30.078335	-90.553044	n/a	n/a	n/a
RIVERSIDE ACADEMY	SCHOOL	332 RAILROAD AVE	RESERVE	30.062111	-90.561371	n/a	n/a	n/a
ST PETER'S CATHOLIC	SCHOOL	188 W 7TH ST	RESERVE	30.057861	-90.560292	n/a	n/a	n/a
ST JOHN PARISH HEALTH UNIT (WEST BANK)	HEALTH UNIT	159 E 3RD ST	EDGARD	30.044097	-90.559719	250,000	1995	Wood
ST JOHN PARISH HEALTH UNIT (EAST BANK)	HEALTH UNIT	473 CENTRAL AVE	RESERVE	30.066475	-90.552212	400,000	1975	Concrete
SHERIFF'S OFFICE (COURTHOUSE)	SUBSTATION	2393 HWY 18	EDGARD	30.045371	-90.559679	3,750,000	1975	Steel
SHERIFF'S SUBSTATION	SUBSTATION	492 HISTORIC MAIN ST	GARYVILLE	30.056955	-90.617438	n/a	n/a	n/a
SHERIFF'S MAIN DIVISION OFFICE	LAW ENFORCEMENT	100 DEPUTY BARTON GRANIER DR	LAPLACE	30.072327	-90.505402	n/a	n/a	n/a
SHERIFF'S OFFICE (PERCY HEBERT)	LAW ENFORCEMENT	1801 W AIRLINE HWY	LAPLACE	30.071958	-90.499328	n/a	n/a	n/a
SHERMAN WALKER CORRECTION CENTER	PRISON	122 DEPUTY BARTON GRANIER DR	LAPLACE	30.071569	-90.505104	n/a	n/a	n/a
LA STATE POLICE COMMUNICATION TOWER	TOWER	n/a	LAPLACE	n/a	n/a	n/a	n/a	n/a
RIVER PARISH HOSPITAL HELIPORT	n/a	500 RUE DE SANTE	LAPLACE	30.072668	-90.513871	n/a	n/a	n/a
ST JOHN PARISH AIRPORT	n/a	355 AIRPORT RD	RESERVE	30.085688	-90.580137	n/a	n/a	n/a
CLERK OF COURT RECORDS STORAGE	n/a	n/a	EDGARD	n/a	n/a	n/a	2008	Metal
AG BUILDING (COUNTY AGENT)	n/a	151 E 3RD ST	EDGARD	30.044397	-90.559769	160,000	1978	Wood

Name of Building	Purpose of Building	Address	City	Latitude	Longitude	Assessed Value	Date Built	Construction Type
ST JOHN THEATER	n/a	115 W 4TH ST	RESERVE	30.0551	-90.558	700,000	1970	Wood
JUVENILE BUILDING	n/a	1212 HWY 44	RESERVE	30.0529	-90.558	150,000	2010	Wood
TECH ACTION (EAST BANK)	n/a	471 CENTRAL AVENUE	RESERVE	30.0665	-90.5524	300,000	2007	Wood
STREET LIGHT BUILDING	n/a	1801 W AIRLINE HWY	LAPLACE	30.0716	-90.4994	100,000	1980	Metal
UTILITY MAINTENANCE CENTER	n/a	434 ELM ST	LAPLACE	30.0714	-90.502	90,000	1973	Wood/Brick
PARISH WAREHOUSE	n/a	1801 W AIRLINE HWY	LAPLACE	30.0717	-90.4998	175,000	1980	ICM/Wood
MECHANIC SHOP	n/a	1809 W AIRLINE	LAPLACE	30.0717	-90.4999	150,000	1975	ICM
DIVERS LICENSE BUILDING	n/a	4034 W AIRLINE HWY	RESERVE	30.0774	-90.572	300,000	2001	Wood

NFIP

## ELEMENT F: STATE REQUIREMENT National Flood Insurance Program (NFIP)

### Jurisdiction: St. John the Baptist

Insurance Summary		Comments/Souce
How many NFIP policies are in the community? What is the total premium and coverage?	# Policies 7,077 as of March 2015. Total premiums \$5,054,277 and total coverage \$1,916,670,800.	State NFIP Coordinator or FEMA NFIP Specialist
How many claims have been paid in the community? What is the total amount of paid claims? How many of the claims were for substantial damage?	# Claims paid 4,887. Claims paid \$262,447,642. No substantial damage claims.	FEMA NFIP or Insurance Specialist
How many structures are exposed to flood risk with in the community?	Approx 4,087 in Zones AE and VE.	Community Floodplain Administrator (FPA)
Describe any areas of flood risk with limited NFIP policy coverage.	The community of Pleasure Bend lies on Lac des Allemands in Zone VE, but very few homeowners have a flood policy.	Community FPA and FEMA Insurance Specialist
Staff Resources		
Is the Community FPA or NFIP Coordinator certified?	Yes	Community FPA
Is flood plain management an auxiliary function?	Yes	Community FPA

Provide an explanation of NFIP administration services (e.g., permit review, GIS, education or outreach, inspections, engineering capability)	Review permits for construction, improvements, and repairs for compliance with floodplain regulations; Annual outreach to repetitive loss areas; field inspections of violations for compliance	Community FPA
What are the barriers to running an effective NFIP program in the community, if any?	Budget; dedicated staff	Community FPA
<b>Compliance History</b>		
Is the community in good standing with the NFIP?	Yes	STate NFIP Coordinatorr, NFIP Specialist, community records
Are there any outstanding compliance issues(i.e., current violations)?	No	Community FPA
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact(CAC)?	Last CAV was February 27, 2014.	Community FPA
Is a CAV or CAC scheduled or needed? If so when?	No CAV is scheduled until about 2017, or every 3 years.	Community FPA
<b>Regulation</b>		
When did the community enter the NFIP?	16-Jul-80	Community FPA
Are the FIRMs digital or paper?	Digital and Paper	Community FPA
Do floodplain development regulations meet or exceed FEMA or State minimum requirements? If so, in what ways?	Regulations meet FEMA and state minimum requirements.	Community FPA
<b>Community Rating System (CRS)</b>		
Does the community participate in CRS?	Yes	Community FPA
What is the community's CRS Class Ranking?	Eight	Community FPA
Does the plan include CRS planning requirements?	Yes	Community FPA

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Appendix F: Public Outreach and Mitigation Efforts

ST. JOHN THE BAPTIST PARISH PROGRAM FOR PUBLIC INFORMATION OUTREACH PROJECTS									
Parish	Project	Project Mechanism	Office	Subject Matter	Frequency	Target Audience	Activity	Msg.	Desired Message Outcome
St. John	Hurricane Education	Table/ coloring Books school supplies	Parish Administration	Be Prepared Be Flood Aware - Know Your Risk!; NFIP - Facts - Insurance Benefits; Survival In a Hurricane: Hazards, Mapping Information, Education on Mapping	Annually/ Opening of School	School children/L ibraries	330	Protect People from hazards	To educate school children about flood insurance, and increase the number of insurance policies in the parish.
St. John	Protect Drains & Culverts	Parish wide clean up day. Clean Sweep - Notice in newspaper & Website	Administration	Keep Debris & Trash out of Ditches & Streams	Spring/Fall	Parish Residents	330	Protect natural floodpl ain functions	To publicize the stream dumping regulations in the parish and improve drainage.
St. John	Outreach to individual communities in parish	Literature passed out/ First call magnets give away	Health & Human Services	Health & Social Services	Annually	Communit y	330	Know your flood hazard	To get more residents to purchase flood insurance.
St. John	Land use Plan	All meetings documented with minutes & sign in sheets	Planning & Zoning Office	Land/building	Annually	Land Developer s	330	Know your flood hazard	To stop harmful development in the floodplain.
St. John	Emergency Preparedness	Flyers in each Department	Parish Communication s Office	Hurricane Preparedness	Year Round	Parish Wide	330	Know your flood hazard; Protect people from the hazard; Protect your property from the hazard	To educate the residents on how to prepare for hurricanes and to increase the number of insurance policies in the community.
St. John	Flood Protection Year Round	St. John Facebook/Twitt er Website: <a href="https://www.facebook.com/sjbparish">https://www.facebook.com/sjbparish</a> ; <a href="https://twitter.com/sjbpgov">https://twitter.com/sjbpgov</a>	Emergency Operations Center	Get A Game Plan	Year Round	Parish Residents	350	Protect people from the hazard; Protect your property from the hazard; Make a plan for the hazard; Retrofit your	To increase website hits on the parish Facebook and Twitter, in order to get more residents to purchase flood insurance, prepare for hurricanes, and retrofit their homes.

ST. JOHN THE BAPTIST PARISH PROGRAM FOR PUBLIC INFORMATION OUTREACH PROJECTS									
Parish	Project	Project Mechanism	Office	Subject Matter	Frequency	Target Audience	Activity	Msg.	Desired Message Outcome
								home for the hazard	
St. John	First Call Emergency Notification: <a href="https://alertregistration.com/atstwww/?FC_NOTES=CR_Internal">https://alertregistration.com/atstwww/?FC_NOTES=CR_Internal</a>	Website/stickers/flyers	Communications	Weather notification alert system	Year Round	Parish Residents	350	Protect people from the hazard	To keep residents safe from weather hazards.
St. John	FEMA Link	Web Site Home Page	Emergency Operations Center	FEMA Web	Year Round	Parish Residents	330	Know your flood hazard	To get more residents to purchase flood insurance.
St. John	Public Service Messages and information	Emergency Channel Message	<b>Television - Channel 15</b>	Flood ready info & disaster assistance announcements	Hurricane Season/Year Round	Public	330	Protect people from the hazard; Protect your property from the hazard	To educate the residents on how to respond to hurricanes and to increase the number of insurance policies and retrofitted homes in the community.
St. John	Flood Verification Letters	Mailing	Planning & Zoning Office	Flood Zone Verification	Year Round	Parish Wide	330	Know your flood hazard	To increase the number of flood insurance policies in the community.
St. John	Repetitive Loss Notice to Public	Mailing	Planning & Zoning	Notification of Repetitive Loss Property	Annual	Rep Loss Properties & Territory	330	Know your flood hazard	To increase the number of flood insurance policies in the community.
St. John	Community Assistance Visit - letters to Public	Mailing	Planning & Zoning Office	CAV Letter notification of permit needed	FEMA Cycle Visit	Properties needing Additional Assistance Permits, etc.	330	Protect your property from the hazard	To increase the number of flood insurance policies in the community.
St. John	Telephone Blue Pages	Public delivery	Planning & Zoning Office	Flood Information and assistance provided by the parish	Year Round	Parish Wide	330	Know your flood hazard; Insure your property for your flood hazard	To increase the number of flood insurance policies in the community.
St. John	GIS - Mapping Information	Map displayed throughout parish	GIS Department	Flood Maps, Drainage maps, Rep Loss maps (Territory & Properties)	Year Round	Parish Wide	330	Know your flood hazard	To increase the number of flood insurance policies in the community.

**ST. JOHN THE BAPTIST PARISH PROGRAM FOR PUBLIC INFORMATION OUTREACH PROJECTS**

Parish	Project	Project Mechanism	Office	Subject Matter	Frequency	Target Audience	Activity	Msg.	Desired Message Outcome
St. John	Hurricane info included in Utility Bill mailings	Mailing	Department of Utilities	Emergency Numbers, State Emergency Alert System, contraflow instructions, Evacuation shelters, first call	Annual	Parish Wide	330	Know your flood hazard; Protect people from the hazard; Protect your property from the hazard	To prepare residents for hurricanes and educate them about what to do during a hurricane.
St. John	Outreach Project to Community	Table At Festival	Andouille Festival	Be Prepared Be Flood Aware - Know Your Risk!; NFIP - Facts - Insurance Benefits; Survival In a Hurricane: Hazards, Mapping Information, Education on Mapping	Annual - October	Parish Wide/Out reaching	330	Know your flood hazard; Protect people from the hazard; Protect your property from the hazard	To prepare residents for hurricanes and educate them about what to do during a hurricane.
St. John	Outreach Information for Pet Owners	Flyer	Animal Shelter	Pet Info -Pets Need Protection Too!!	Year Round	Pet Owners	330	Protect people from the hazard	To prepare residents for hurricanes and educate them about what to do during a hurricane.
St. John	Outreach to Builders and Consumers	Table At Store	Home Depot	Build Responsibly	Year Round	Builders - Parish Consumers	330	Build responsibly	To build safely and responsibly in the floodplain.
St. John	Placed in Building Dept. area	Table At Store	Ace Hardware	Literature: Swap up material during year ; Coastal Bldg. Material; Use of Connectors & Brackets, Foundations in Coastal Areas; House wrap; Load Paths; Moisture Barrier System; Protect Utilities; Repair, Remodeling, Additions & Retrofitting; Roof Underlayment for Asphalt Shingle Roofs; Shutter Alternatives	Year Round	General Public	330	Build responsibly	To build safely and responsibly in the floodplain and encourage retrofitting for flood safety.



**SIGN IN SHEET – LETTER RECIPIENTS**

**ST. JOHN THE BAPTIST PARISH FEMA HAZARD MITIGATION GRANT PROGRAM**

DATE: JUNE 11, 2014

NAME	PHONE NO.	EMAIL
MERLENE DARING		
JUAN ROMIOUS & WIFE		
CALVIN LOUIS MARTIN		
KAREN FIELDS		
BRYAN & MARIE HYMEL		
JEANETTE TORAN <i>Jeanette Toran</i>	<i>225-624-6008</i>	<i>toran.ja@msw.com</i>
JORGE FERNANDEZ	<i>225-206-0446</i>	

**SIGN IN SHEET – LETTER RECIPIENTS**

**ST. JOHN THE BAPTIST PARISH FEMA HAZARD MITIGATION GRANT PROGRAM**

DATE: JUNE 11, 2014

NAME	PHONE NO.	EMAIL
RAFFEAL JAMES NEAL		
CLARITA BRAUD		
<i>X. Renea Lopez</i>	<i>985-652-3203</i>	
<i>X. Macy L. Hasack</i>	<i>225 265 4681</i>	<i>Ruffin Hasack</i>
<i>X. Melvin &amp; Tina Bates</i>	<i>985-651-7999</i>	

**PUBLIC MEETING:** Hazard Mitigation Grant Program Outreach  
**DATE:** June 12, 2014

**SIGN IN SHEET**  
**ST. JOHN THE BAPTIST PARISH FEMA HAZARD MITIGATION GRANT PROGRAM**

DATE: JUNE 12, 2014

NAME	ADDRESS	PHONE NO.	EMAIL
Rica Malik (Royal Engineering)			
ROSEN M. ASOR BENSEP			
Scott Reubach (Royal)			
Judy S. Clucas	JBP		J-UNCCEN@STJBPMAH.COM
Dana Simpson (Royal)		(321) 594-8887	BSimpson@Thompson.CS.net

**SIGN IN SHEET - LETTER RECIPIENTS**  
**ST. JOHN THE BAPTIST PARISH FEMA HAZARD MITIGATION GRANT PROGRAM**

DATE: JUNE 12, 2014

NAME	PHONE NO.	EMAIL
ALYWIN BELL		
WARREN & NICOLE F. YOUNG		
ALFONZIA HOLLINS		
TINA BATES		
Dana Bates	985 651 1999	
Melvin Bates		
WILFRED SPECHT, JR.		
DAVID THOMAS SR. & WIFE		

**SIGN IN SHEET – LETTER RECIPIENTS**

**ST. JOHN THE BAPTIST PARISH FEMA HAZARD MITIGATION GRANT PROGRAM**

DATE: JUNE 12, 2014

NAME	PHONE NO.	EMAIL
LENNIE L. VALENTINE & WIFE <i>L &amp; Marie Alex Valentine</i>	<u>504-442-2760</u>	<u>m.alexisv@sjbparish.com</u>
ELLIOT FRANCIS THOMAS		
BRENDA BRAUD BIRNER		
CARL WATSON		
DONALD H. & ROXANNE GROSS HERGERT <i>Don &amp; Rox</i>	<u>985-652-3203</u>	<u>DHERG@D.HERMANS.COM</u>
SHAWN MARK ANDERSON		

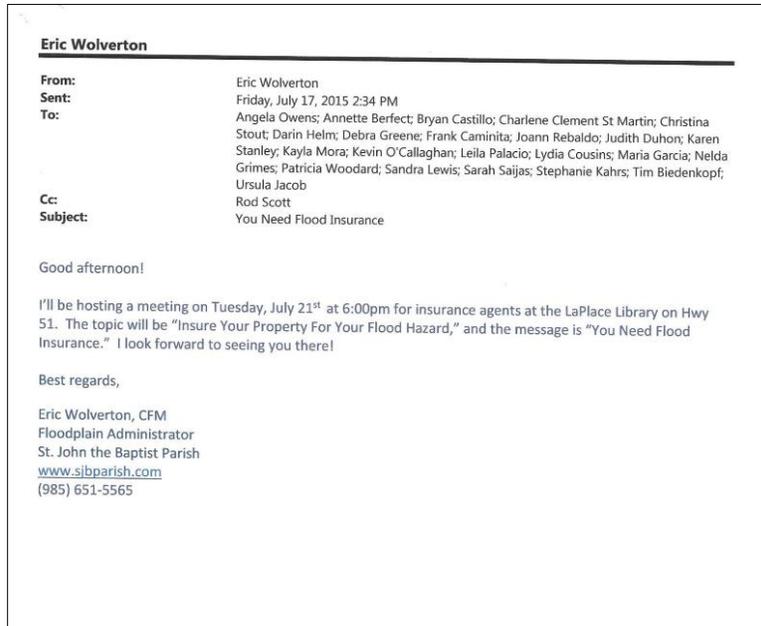


**PUBLIC MEETING:** Insurance Agent Outreach Meeting

**DATE:** July 21, 2015

**LOCATION:** LaPlace Library

**ABOUT:** "Insure Your Property for your Flood Hazard: You Need Flood Insurance" discussion.



Sign In

<u>Name</u>	<u>Phone</u>	<u>Email</u>
1. Kayla Mora	504-940-8580	Kayla.Mora.RLWV@statefarm.com
2. Debra Greene	504-347-7809	Debra.Greene@sbzestate.com
3. Norma Wolbert	(504) 712-0700	Norma.Wolbert@Sms1.com
4. Donna Malbrough	504 4170470	dmalbrough@allstate.com
5. Bettye Jean "BJ" Freeman	985-652-5933	bcaudies@rivins.com
6. Annette Best	985-652-1400	Annette.best@KYNP.com
7.		
8.		
9.		
10.		



**PUBLIC MEETING:** National Disaster Resilience Competition

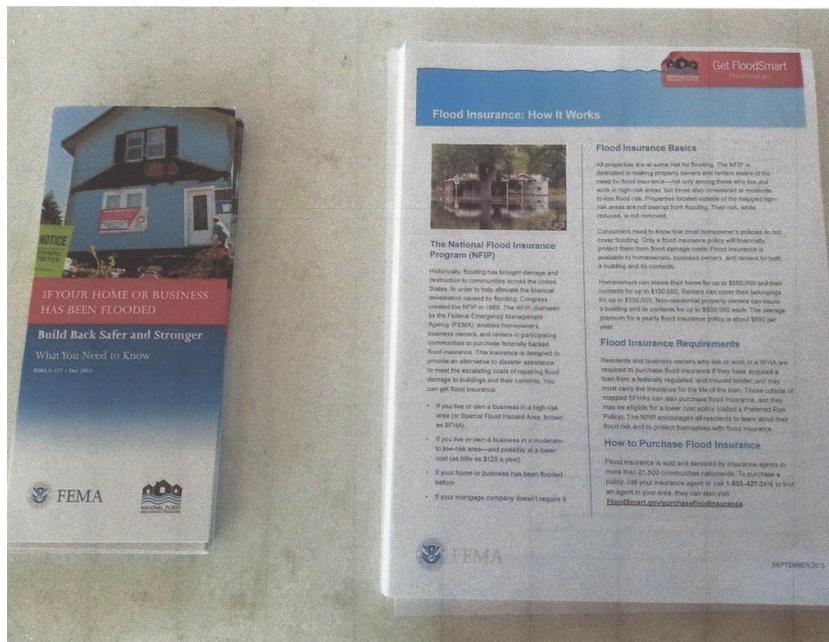
**DATE:** August 3, 2015

**LOCATION:** St. John Community Center, LaPlace

**ABOUT:** St. John the Baptist hosted a series of workshops to engage the community in a discussion about the community's long-term future as well as receive input from the community, with a specific emphasis on opportunities to build resilience. This discussion was in conjunction with the state of Louisiana's application to the National Disaster Resilience Competition (NDRC), a \$1 billion pool of federal funds set aside for programs and projects designed to mitigation communal vulnerabilities.

National Disaster Resilience Competition  
Public Meeting - 8.3.15

Name	Address	Telephone
SETH MAGDER	608 2021 LAKESHORE 5 <sup>th</sup> FL 70122	504.364.0766
DIANE LEONARD	2629 Virginia Colony Ave LaPlace LA 70004	985 651-9234
Ed. Bourgeois	228 Spruce Street Lake Charles 70608	504-723-0352
Bonnie Charles	1270 28 <sup>th</sup> St Reserve, LA	504-510-4888
Carmen Vallieres	DOA Office of Reserve Mgmt - Resist	225 342 7024
Gerrelde Davis	"	(225) 342-7030
Thomas + Terry McMiller	408 Camelia Ave LaPlace La 70068	504-874-9215
Bessie Walker Bolden	2312 Yorktowne Dr. LaPlace La 70006	(504) 504-559-1403
Harold J. Flinn, Jr	113 IDAHO CT LAPlace LA 70068	(504) 236-6259
Angelle McVie	2405 Yorktowne Dr	(985) 233-1574
Willie J. Clement	357 MEADOWS DR JESELEVE LA	985 536 4725
Cynthia Miller	195 Capt. G. Bourgeois LaPlace	908-652-6518
Hilda Carter	" " Bourgeois	"
Allison DeJony	608 2021 LAKESHORE DR JESELEVE LA 70122	504 304 2500
Royce Gaudet	N. 3 <sup>rd</sup> St. RR LA 70801	225-342-1854
Joe Accardo, Jr	52 Holly Drive LaPlace 70068	985-652-2780





**PUBLIC MEETING:** National Disaster Resilience Competition

**DATE:** August 4, 2015

**LOCATION:** Westbank Community Center, Edgard

**ABOUT:** St. John the Baptist hosted a series of workshops to engage the community in a discussion about the community’s long-term future as well as receive input from the community, with a specific emphasis on opportunities to build resilience. This discussion was in conjunction with the state of Louisiana’s application to the National Disaster Resilience Competition (NDRC), a \$1 billion pool of federal funds set aside for programs and projects designed to mitigation communal vulnerabilities.

St. John the Baptist Parish  
National Disaster Resilience Competition  
Public Meeting - 8.4.15

Name	Address	Telephone
Russell Jack	P.O. Box 161 Edgard, LA 70049	985-497-8291
Charles Tate	11155 W. Sunset St. No. 100	713-929-1154
Loema Williams	102 Grant Dr. Laplace, LA 70056	504-310-0710
Chermaine Ruffin	1321 E. 10th St. Edgard, LA 70049	985-497-8829
Joe Chan	1001 Hammond Ave. No. 70005	504-453-4676
Delaney Chan	188 E. 11th St. Edgard, LA 70049	225-497-9516
Terrell Williams	122 J. P. Edwards Circle Edgard	985-497-9028
Walter Reed	3531 Hwy 18 Edgard	985-497-8207
Wesley Williams	5055 Hwy 18 Edgard	225-285-7670
Delinda Bailey	184 East 12th St. Edgard, LA 70049	225-497-8225
Allison Dalong	2021 Lakeview Dr. No. 500 No. 70119	504-384-2300
Raymond Goodwin	1801 W. Apollo Hwy. (Apt 22)	985-632-9369
Walter Williams	600 - 5th St	504-350-7787
Kevin Dalong	184 E. 12th Edgard	225-497-8225
SIA Cook	3135 Hwy 18 Edgard	504-858-2585

St. John the Baptist Parish  
National Disaster Resilience Competition  
Public Meeting - 8.4.15

Name	Address	Telephone
JAMES ANDERMAITH	4171 ESSEN LANE, BAYOU ROUGE, LA 70009	225-354-9354
Breton JACK	456 CENTRAL AVE EDGARD, LA	985-497-3713
Irina Smith	302 E. 12th St. Edgard	985-497-8897
LEONARD JAMES	183 E 24th St Edgard, LA	504 497-0302
A.T. Smith	192 E 12th Edgard LA	915 497-8225
Paige Falgout	1600 Marselle Dr. #21 Laplace, LA 70068	504-417-0325
Danapa Gardner	1450 Pappas, NOLA, LA 70112	504-458-9302
Willie Mae Young	207 Chestnut Dr Edgard, LA 70049	985 497-8830
ROBERT SYNDIAN	172 EAST 12th ST, EDGARD, LA 70049	985-497-8585
Russell Jack	P.O. Box 75 Edgard, La. 70049	504-688-2310





## Flood Insurance: How It Works



### The National Flood Insurance Program (NFIP)

Historically, flooding has brought damage and destruction to communities across the United States. In order to help alleviate the financial devastation caused by flooding, Congress created the NFIP in 1968. The NFIP, overseen by the Federal Emergency Management Agency (FEMA), enables homeowners, business owners, and renters in participating communities to purchase federally backed flood insurance. This insurance is designed to provide an alternative to disaster assistance to meet the escalating costs of repairing flood damage to buildings and their contents. You can get flood insurance:

- If you live or own a business in a high-risk area (or Special Flood Hazard Area, known as SFHA)
- If you live or own a business in a moderate-to low-risk area—and possibly at a lower cost (as little as \$129 a year)
- If your home or business has been flooded before
- If your mortgage company doesn't require it

### Flood Insurance Basics

All properties are at some risk for flooding. The NFIP is dedicated to making property owners and renters aware of the need for flood insurance—not only among those who live and work in high-risk areas, but those also considered at moderate-to-low flood risk. Properties located outside of the mapped high-risk areas are not exempt from flooding. Their risk, while reduced, is not removed.

Consumers need to know that most homeowner's policies do not cover flooding. Only a flood insurance policy will financially protect them from flood damage costs. Flood insurance is available to homeowners, business owners, and renters for both a building and its contents.

Homeowners can insure their home for up to \$250,000 and their contents for up to \$100,000. Renters can cover their belongings for up to \$100,000. Non-residential property owners can insure a building and its contents for up to \$500,000 each. The average premium for a yearly flood insurance policy is about \$650 per year.

### Flood Insurance Requirements

Residents and business owners who live or work in a SFHA are required to purchase flood insurance if they have acquired a loan from a federally regulated and insured lender, and they must carry the insurance for the life of the loan. Those outside of mapped SFHAs can also purchase flood insurance, and they may be eligible for a lower cost policy (called a Preferred Risk Policy). The NFIP encourages all residents to learn about their flood risk and to protect themselves with flood insurance.

### How to Purchase Flood Insurance

Flood insurance is sold and serviced by insurance agents in more than 21,800 communities nationwide. To purchase a policy, call your insurance agent or call 1-800-427-2419 to find an agent in your area, they can also visit [FloodSmart.gov/purchasefloodinsurance](http://FloodSmart.gov/purchasefloodinsurance).





## Avoiding Flood Damage: A Checklist for Homeowners

FEDERAL EMERGENCY MANAGEMENT AGENCY

Are you looking for ways to protect your home from flooding? There are many things you can do, depending on the flood hazard in your area, the characteristics of your property, and the zoning and building codes in your community. Some methods are fairly simple and inexpensive; others will require a professional contractor.

This homeowner's checklist will help you become familiar with what you can do. For more information about the costs and benefits of each method, talk to a professional builder, architect or contractor. You should also ask your building department about building permit requirements.

### Do you know your flood risk?

Call your local emergency management office, building department or floodplain management office for information about flooding. Ask to see a flood map of your community. There may be a projected flood elevation for your neighborhood. This information will help you determine how much water is likely to come in.

### Do you have enough flood insurance?

Even if you have taken steps to protect your home from flooding, you still need flood insurance if you live in a floodplain. Homeowners' policies do not cover flood damage, so you will probably need to purchase a separate policy under the National Flood Insurance Program (NFIP).

It takes 30 days for a flood policy to take effect. This is why you need to purchase flood insurance before flooding occurs.

If your insurance agent is unable to write a flood policy, call 1-800-638-6620 for information.

### Is the main electric switch-box located above potential flood waters?

The main electric panel board (electric fuses or circuit breakers) should be at least 12" above the projected flood elevation for your home. The panel board height is regulated by code. All electrical work should be done by a licensed electrician.

### Are electric outlets and switches located above potential flood waters?

Consider elevating all electric outlets, switches, light sockets, baseboard heaters and wiring at least 12" above the projected flood elevation for your home.

You may also want to elevate electric service lines (at the point they enter your home) at least 12" above the projected flood elevation.

In areas that could get wet, connect all receptacles to a ground fault interrupter (GFI) circuit to avoid the risk of shock or electrocution.

Have electrical wiring done by a licensed electrician.

### Are the washer and dryer above potential flood waters?

For protection against shallow flood waters, the washer and dryer can sometimes be elevated on masonry or pressure-treated lumber at least 12" above the projected flood elevation. Other options are moving the washer and dryer to a higher floor, or building a floodwall around the appliances.

### Are the furnace and water heater above potential flood waters?

The furnace and water heater can be placed on masonry blocks or concrete at least 12" above the projected flood elevation, moved to inside a floodwall or moved to a higher floor. (You have more

**PUBLIC MEETING:** Realtor Outreach Meeting

**DATE:** August 26, 2015

**LOCATION:** LaPlace Library

**ABOUT:** "Insure Your Property for your Flood Hazard: You Need Flood Insurance" discussion, including topics such as flood vents for compliance with the NFIP.

**Eric Wolverton**

**From:** Eric Wolverton  
**Sent:** Thursday, August 20, 2015 1:03 PM  
**To:** Donna Malbrough; Barbara Blue; Carolyn Robertson; Desi Sharlow; Fran Meyers; John Scully; Lucille Sorapuru; Mary Strickland; Michelle Schubert; Natasha Ross; Penny Bordelon; Poonam Oberoi; Salvadore Pettito; Sheila Brown; Tiesha Claborn; Wendy Benedetto  
**Cc:** Rod Scott  
**Subject:** You Need Flood Insurance

Good afternoon!

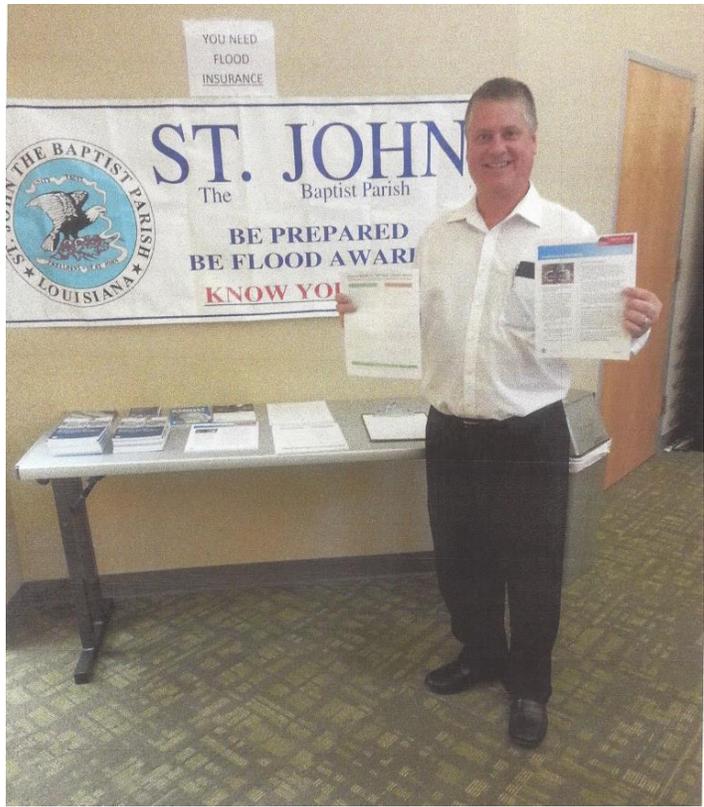
I'll be hosting a meeting for realtors on Wednesday, August 26th at 6:00pm at the LaPlace Library on Hwy 51. The topic will be "Insure Your Property For Your Flood Hazard," and the message is "You Need Flood Insurance." We will also discuss flood vents for compliance with NFIP. If you have any questions please let me know, and I look forward to seeing you there!

Best regards,

Eric Wolverton, CFM  
 Floodplain Administrator  
 St. John the Baptist Parish  
[www.sibparish.com](http://www.sibparish.com)  
 (985) 651-5565

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**SIGN IN SHEET**

1. Norma Waldron Home Hill St. John Parish
2. Doreen Albright St John Parish
3. Malcolm Falgout Keller Williams
4. Fran Meyer Lotter & Blum
5. Tisha Claborn - Keller Williams Realty
6. \_\_\_\_\_
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20. \_\_\_\_\_

**PUBLIC MEETING:** Town Hall Meeting  
**DATE:** September 17, 2015  
**ABOUT:** Hurricane Isaac Grant Programs


  
**St. John the Baptist Parish**  
 1801 West Airline Highway, La Place, LA. 70068

Town Hall Meeting - Hurricane Isaac Grant Programs

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5. Troy Ann Thompson			
6. LaTanya Champagn	985-620-1657	4576 Homewood Place Reserve, LA 70084	latanyachampagne@yahoo.com
7. Sanchika Lewis	504-205-7790	209 Elm St Laplace LA, 70068	
8. Dianne Morgan	985-390-007	521 New 2nd Street Reserve LA 70084	
9. Kerstan Morgan	985-210-5748	157 Joe Porquet Circle Laplace LA 70068	
10. Kerriana Riley	504-239-9227	135 East 12th Street Reserve, LA 70084	Kerriana2@gmail.com
Chandell Hudgins	985-359- 504-559-7472	424 Sawney Dr Laplace 70068	Chandellhudgins@gmail.com


  
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3. Lorraine White	(985)653-8100	118 Warwick St	
4. Leonard White	985-653-8100	118 Warwick St, Laplace	lewhite51@yahoo.com
5. Valerie Robinson	504-296-2632	2632 English Colony Dr Laplace	VRobinson-sw1@comcast.net
6. Lorenza Robert	985-652-7672	1700 Lafitte Dr. Laplace, LA 70068	
7. Sherie Boudoin	985-210-2676	9999 Sunny Side Dr Laplace, LA 70068	sboudoin@yahoo.com
8. Yolanda Joseph	504-559-0325	328 Devon Rd. Laplace, LA 70068	Yolanda9291@att.net
9. Ronald Johnson	504-428-1191	431 State St. Laplace, LA 70068	
10. Angela Davis	504-312-8222	182 Homewood Pl Reserve LA 70084	adavis@rtconline.com


**St. John the Baptist Parish**  
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3 Mary Hampton	985-536-7120	155821 Reuny La. 70084	
4 Allen Schryver, Jr.	985-294-5197	266 EAST 24 Reserve La.	
5 Leni Marshall	985-535-3994	123 Ezekiel Jackson St Crawville La	
6 Verena Schaefer	985-536-6546	205 EAST 31st Street Reserve La.	
7 Sophia Gordon	504-371-5370	1371 McKinney St. Reserve	
8 Maryann Belvin	985-536-8178 504-265-5733	132 McKinney St. Reserve, LA	
9 Frank Gardner	985-536-4428	222 Hollywood Reserve La.	
10 Deborah Johnson	(985) 390-0087	1366 Reserve St Reserve La. 70088	


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3 Vaughn Leatherwood	504-487-1863	59 Dunby Club Dr LaPlace LA 70068	vleatherwoodast@dnk12.edu
4 Vanessa J. Noble	504-220-7674	LA PLACE, LA 70068	
5 Charlene Brown	225-628-8532	93 Derek Ln Laplace 70068	Charlenebrown55@gmail.com
6 Mapalam Means	985-652-7371	1511 Laffner Dr Laplace LA 70068	mapalammeans@earthlink.net
7 Regatta James	985 210 7037	204 LL App St Gramme La	james.orkilla.66@yahoo.com
8 Dorra Belvin	985 535 3464	402 S Fig St Gramme La 70087	N/A
9 Wanda Perry	985 535 3464	EAST ST Gramme LA 70087	N/A
10 Clinton Bourgeois	985-703-2672	127 WEST 5th St LAPLACE, LA. 70068	ClintonBourgeois@yahoo.com


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2 Edward Powell	985-233-0870 985-233-0808	72 113 HISTORIC WEST GRAMME, LA	
3 Heraldie H. Jones	(985) 212-2016	124 Rosemeade St Reserve La. 70088	
4 Sabrina Jackson	985-272-0000	Crawville La 70081	
5 Lashonda G McKnight	504-344-3880	542 N.W. 3rd St Reserve LA 70084	
6 Ronald McKnight	504-344-3804	542 N.W. 3rd St Reserve LA 70084	
7 Morris Nicholas	985-536-2178	815 E. 26th St. Reserve,	La 70084
8 Hubert Ellsworth	504-319-1159	2317 Cartier Dr. Reserve LA 70088	
9 Kolanne Keller	504-442-2123 832-207-4759	2628 Virginia Colony Ave Laplace LA 70068	
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3. Carol Wilkin	985-6214-985	251 Sherman Walker St 70051	
4. Patricia Williams	536-3701	144 N.W. 12th St. Reserve, LA 70084	
5. Karen Dobson	985-210-7433	574 L. Hill Ho per st Caryville LA 70061	
6. Andrea Helgate	985-287-2856	10000 Sunnyside Dr 70068	Bringbalanceback@gmail.com
7. Renat Joseph	985-224-2600	218 Surrreyside LaPlace LA 70068	Rena.P.J@msn.com
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10. Rhonda Williams	504-377-3380	333 East 16th Reserve	


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2. Rita Mae Johnson	985-817-9473	221A Belle Terre Blvd Reserve, LA 70084	
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4. Corol ARMANT	985-651-9880	48 State St.	
5. Claudia Brown	985-536-3932	NW 13th St	
6. Emma Gomez	985-536-3900	182 NW 13th Reserve, LA 70084	
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5. Vader Wilson	504-559-5404	2437 Yorktowne DR LaPlace	
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9 Terone Creech	985 817 7319	149 Apricot St Laplace LA 70068	
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3 Pearlina McKnight	985-703-2826 985-536-3500	151 Rossmore Pt Rossmore, LA 70084	
4 SUSAN Teague	985-628-1561		
5 Lavin Teague	985-628-1561		
6 Karvel Teague	985-628-1561		
7 Karvel Teague	985-628-1561		
8 Ann Teague	985-536-2888		
9 James Teague	985-536-2888		
10 Chris Jones	985-652-8723	83 County Court Dr. La Place	


  
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5 Keshia Carter	985-359-0719	341 North West 2nd Street Reserve, LA 70084	Krainestjohn.K12@a.n.s
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7 Dominia Fominia	985-479-2877	Reserve, La.	
8 Carlo Travis	(504) 241-3118	609 FOXWOOD (LA) Laplace LA	Domcar1607@yahoo.com
9 Kerith Jean	247 Charlotte St 701 Long Lake Road	985-535-2632	
10 Rhonda Thompson	(504) 559-0730	Magnolia Ave Laplace LA 70068	Rmct40@yahoo.com


  
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2 Adrie Terrell	985-210-3403	440 PLYMOUTH DR Laplace, LA 70068	
3 Delisa Tassin	985-210-9072	1737 C St Laplace LA	
4 Sandra Colleen	985-210-8505	1637 JEFFERSON Laplace LA	
5 Charlotte Cooper	985-270-6150	M.V St. Gramette	
6 Yaranika Barson	985-210-4778	278 Marshall Mt. Airy	
7 Andrew Sterling	985-535-1736	162 Stout St. Lake Charles LA	
8 Sandra Sterling	985-535-1946	755. Emily St. Lake Charles	
9 Daniela Webb	985-651-2970	430055 Dr Laplace, LA 70068	Drineweb@gmail.com
10 Danielle Gibson	985-817-3112	31A E. 71 <sup>th</sup> St Reserve, LA	clannybro42@gmail.com


  
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3 Olivia Carter	985 536-6101	187 E. 23rd St Reserve La	
4 Kinva Scott	985 212-7773	138 Homewood Pl Reserve La 70084	Kinvalasha11@gmail.com
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5. Ronald Nabor	985-359-0580	112 James Ct LA PLACE LA 70068	N/A
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Town Hall Meeting - Hurricane Isaac Grant Programs

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5 Lillan M. Jobb	985 354 1769	140 Joe Parguet	140 Joe Parguet
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**PUBLIC MEETING:** Town Hall Meeting  
**DATE:** September 18, 2015  
**LOCATION:** St. John Community Center, LaPlace  
**ABOUT:** Hurricane Isaac Grant Programs


**St. John the Baptist Parish**  
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7. Juan Duff	985-652-5469	115 King Ct LaPlace, La	
8. Barbara Joyce Burton	985-32-4191	618 Pontelle Ct LaPlace	
9. E Lorne Stockman	985-212-4694	8713 S. and Ave. LaPlace, La. 70068	
10.			

**PUBLIC MEETING:** Fall Clean Sweep  
**DATE:** September 19, 2015  
**LOCATION:** Areas throughout St. John the Baptist Parish

**Eric Wolverton**

**From:** Communications <communications@sjbparish.com>  
**Sent:** Thursday, September 17, 2015 12:04 PM  
**To:** Eric Wolverton  
**Subject:** Fall 2015 Clean Sweep - Volunteers Needed!

Having trouble viewing this email? [Click here](#)



## ST. JOHN

THE BAPTIST PARISH

NATALIE ROBOTTOM

PARISH PRESIDENT

For Immediate Release  
 Contact Communications Department  
 985-652-9569 or communications@sjbparish.com

Join us for the Fall 2015 Clean Sweep this weekend!

Register at [sjbparish.com](http://sjbparish.com) or by calling 652-9569

**PLEASE JOIN US!**  
GREEN STARTS HERE  
KAB.ORG

**FALL CLEAN SWEEP**  
Date: **September 19<sup>th</sup> 2015**

**8:30 a.m.** Introduction. Pick up supplies at Thomas F. Daley Memorial Park in LaPlace  
**9:00 - 11:30 a.m.** Clean areas throughout St. John Parish  
**11:30 a.m.** Return to Hwy. 51 Park for Music, Food & Refreshments!

Visit Us Online at [sjbparish.com](http://sjbparish.com)

Citizens can gain community service hours by attending the event. For more information contact  
 Keep St. John Beautiful  
 1801 W. Airline Hwy.  
 LaPlace, LA 70068  
**985.652.9569**

**KEEP ST. JOHN BEAUTIFUL**

**PROTECT YOUR PROPERTY FROM FLOODING!**  
 Voluntarily cleaning ditches and drains near your property reduces flooding.  
 ORDINANCE SEC. 52-1.  
 PROHIBITS LITTERING





**PUBLIC MEETING:** Town Hall Meeting  
**DATE:** September 22, 2015  
**LOCATION:** West Bank Community Center, Edgard  
**ABOUT:** Hurricane Isaac Grant Programs

 St. John the Baptist Parish 1801 West Airline Highway, La Place, LA. 70068			
Town Hall Meeting, West Bank Community Center, Edgard 09/22/14 - Hurricane Isaac Grant Programs			
Name	Phone Number	Mailing Address	Email Address
1. Rose M. Thomas	985-267-1007	176 West 4th Edgard, LA.	
2. Aubrey Gurney	985-497-5619	171 R.C. ST Edgard LA	
3. Marie Howard	985-624-9825		
4. Dorothy Jackson	865-9847	238 W 8th street Reserve La	
5. Berniece Perillou	(504) 725-9506	474 Homewood Pl. Reserve, LA	
6. Clemente Brown	985-210-9174	188 west 5 street	
7. Leroy Padden	504-559-2827	110 East 12th st Reserve LA	lee.trucking+trailer@gmail.com
8. Linwood O Dinvaot	504-415-3591	11874th St PO Box 140	
9. GERARD BARLEY	(504) 206-8534	156 E 1st at Edgard	
10. Stella L. Mathieu	985-497-3372	156 Central Ave Edgard	stellamathieu@yahoo.com
Zelda Ketchens	504-236-2592	245 E 11th St. Edgard	Zelda.Ketchens@BellSouth.net
F			


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Town Hall Meeting, West Bank Community Center, Edgard 09/22/14 - Hurricane Isaac Grant Programs

Name	Phone Number	Mailing Address	Email Address
1 Brittany Brackens	(504) 994-0206	635 Ravine Drive La Place, LA 70068	vbrackens11@gmail.com
2 Oknell Johnson	985-497-8946	Edgard, La 70049	
3 Isaac Johnson	985-497-8946	Edgard, La.	
4 Eric Palko	985-259-5		
5 Troy Embert	(504) 338-150		
6 Sheldene Kay	Gravel 1443	15320 Avon (6) Boudroge St Laplace	N
7 Sadina J D	985-252-5043 (373)	137 East 10th St Edgard La	✓
8			
9			
10			


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 1801 West Airline Highway, La Place, LA. 70068

Town Hall Meeting, West Bank Community Center, Edgard 09/22/14 - Hurricane Isaac Grant Programs

Name	Phone Number	Mailing Address	Email Address
1 Florence Burke	985-977-3871	190 East 6th St Edgard La	
2 Felmon DeHancourt	985-497-3740	242 5th St Edgard	
3 Russell Jackson	985-217-1056	192 Central Ave. Edgard	
4 Chanelle Kingree	(504) 220-1851	339 N.W. 2nd St	
5 Gail Favorite	(504) 858-2763	P.O. Box 369 Edgard, LA 70049	favorite.gail@yahoo.com
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9			
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Town Hall Meeting, West Bank Community Center, Edgard 09/22/14 - Hurricane Isaac Grant Programs

Name	Phone Number	Mailing Address	Email Address
1 Penette Hilly Jackson	705-267-1085	1939 Hwy 19 Edgard, La	
2 Catherine Schom	225-265-7611	117 Route Martin, Lakeview, La	c_schomson@hotmail.com
3 GERALD M BOSTON	504-473-1812 225-265-5181	150 W 7th St Yacherie, LA	
4 Audrey Valentin	985-497-8623 504-951-2050	201 West 4th Street Edgard, LA 70049	
5 Dal Johnson	985-497-3973	West 2nd Street 70049	
6 Angelica Mitchell	225-265-6057	118 West 12th St Yacherie, La 70050	
7 Alvin Jenkins	Sch 416 1472	2070 W Edgard LA 70049	fireent.aj@psd.com
8 Bienville Jackson	(504) 813-5894	173 W 9th St Lakeview	
9			
10			


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Town Hall Meeting, West Bank Community Center, Edgard 09/22/14 - Hurricane Isaac Grant Programs

Name	Phone Number	Mailing Address	Email Address
1. Robin W. Jean	985-212-0477	227 Elab Street Edgard, LA	
2. Ellis Hall Sr.	985-497-8744	138 West 4th St. Edgard	
3. Keith Mathieu Jr.	504-365-5307	304 Monewood Reserve L.A.	
4. Lucille S. Fiffie	985-497-5425	388 Central Ave Edgard, LA 70049	
5. Sedalia F. Fife	985-817-4149	349 Central Ave Edgard	
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**St. John the Baptist Parish**  
 1801 West Airline Highway, La Place, LA. 70068

Town Hall Meeting, West Bank Community Center, Edgard 09/22/14 - Hurricane Isaac Grant Programs

Name	Phone Number	Mailing Address	Email Address
1. Isidore J. Gach	504-473-8194	Jack Point 22 Vacherie St	
2. Kaye Rose	985-224-6153	P.O. Box 36 Vacherie, LA 70082	
3. Deborah B. Babin	225-265-2324	303 W. 8th Street Vacherie	
4. I. J. Holt	504-313-7113	124 East 27th St Reserve	
5. Terri Henderson	225-247-7025	152 Jir Perquet Circle LaPlace 70066	
6. Earlie Saul Ms	504-208-9861	152 E. 12th St Edgard, LA 70049	MindYoBusiness2@gmail.com
7. Stella Edwards	504-338-6194	139 Whitely Ct. Edgard, LA 70049	
8. Charlene Johnson	504-237-5722	P.O. Box 415 Edgard, LA 70049	jckrtens@gmail.com
9. Bruce Jackson	225-265-1793	105 Favorite Lane Edgard, LA 70049	
10. Carolyn J. Gray	985-497-3802	P.O. Box 51 Edgard, LA 70049	Carol@kara-aiden@gmail.com


**St. John the Baptist Parish**  
 1801 West Airline Highway, La Place, LA. 70068

Town Hall Meeting, West Bank Community Center, Edgard 09/22/14 - Hurricane Isaac Grant Programs

Name	Phone Number	Mailing Address	Email Address
1. Tiffany Borke	504-332-4711	P.O. Box 407 Edgard, LA 70049	streebtkesweartheart@yahoo.com
2. Deirdre Herbert	504-559-8763	3379 Andrews Blvd Laplace, LA 70062	
3. Mary Allen	225-245-1000	120 Thomas Court Vacherie, LA 70082	
4. Stephanie Jackson	504-473-8901	200 E 8th St Edgard, LA 70049	
5. Mary McArthur	985-817-2657	270 West 3rd St Edgard, LA 70049	
6. Ferny Roche	985-475-56	202 West 5th Street Vacherie	
7. Joann P. Hall	985-233-6061	Rosario Hwy 114 East 25th	
8. Donna Pinsky	504-325-2701	189 Rue ST. MARTIN VACHERIE, LA 70070	DKURSKW@HOTMAIL.COM
9. Muriel Green	985-497-8763	164 East 4th St. P.O. Box 318 Edgard, LA	
10. Gayle Gouma	504-333-5163	166 West 12th St Vacherie, LA 70049	GayleGouma@gmail.com


**St. John the Baptist Parish**  
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Town Hall Meeting, West Bank Community Center, Edgard 09/22/14 - Hurricane Isaac Grant Programs

Name	Phone Number	Mailing Address	Email Address
1. <i>Debra Harris</i>	225-265-9357	5361 Hwy 18 Vacherie, LA	
2. <i>Amanda Thomas</i>	(504)-352-3157	102 East 13 <sup>th</sup> St. Edgard, La.	
3. <i>Dolny Bone</i>	985-246-1077	173 East 6th St. Edgard	
4. <i>Veronica N. Rubin</i>	985-944-4546	191 Allen Lane Edgard, La. 70049	
5. <i>Renee Jones</i>	(225) 623-9111	P.O. Box 245 Vacherie, LA 70056	reneesjones@yahoo.com
6. <i>Carey Blauff</i>	(504) 296-9206	110 CHAMPAGNE ST RESERVE, LA	
7. <i>Christophe Richard</i> <i>Catherine Richard</i>	(504) 338-9921	1624 Jefferson St Laplace, LA 70002	Catherine.richard@yahoo.com
8. <i>Tukia Smith</i>	(504) 305-3444	127 Sonny Ct	
9. <i>Dumaine Smith</i>	(504) 305-4649	133 E 6 <sup>th</sup> Edgard LA 70049	
10. <i>Oliver Johnson</i>	985-477-3740	242 E 14 <sup>th</sup> St. Edgard, LA	


**St. John the Baptist Parish**  
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Town Hall Meeting, West Bank Community Center, Edgard 09/22/14 - Hurricane Isaac Grant Programs

Name	Phone Number	Mailing Address	Email Address
1. <i>Keena Schramm</i>	(504) 416-2767	P.O. Box 441 Edgard, LA 70049	k_sandtrig@hotmail.com
2. <i>Roy Sandra Dumes</i>	504-812-1041	2513 English Colony Dr. Larrea, La	s339@bellsouth.net
3. <i>Anitra Morris</i>	985-817-0553	284 Central Ave Edgard	phatman187@yahoo.com
4. <i>Sharon Gumbert</i>	504-458-7302		Sharon.Gumbert@A-60U
5. <i>Amanda Brewer</i>	504-621-1448	109 Hwy 640	AmandaBrewer@gmail.com
6. <i>Antoinette Thomas</i>	985-210-4767	238 Amp Circle	AntoinetteThomas
7. <i>Anna M. Rainey</i>	985-492-8618	P.O. Box 381 Edgard	
8. <i>Bearlie Wishom</i>	985-210-7479	NW 1st Reserve LA	
9. <i>DORIS DUGARD</i>	504-905-1388	4710 Darcich St NOLA	ddds1962@aol.com
10. <i>Inger Russell</i>	504-607-1132	101 Derek Lane LaPlace, LA	gods_blessing04@gmail.com


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Town Hall Meeting, West Bank Community Center, Edgard 09/22/14 - Hurricane Isaac Grant Programs

Name	Phone Number	Mailing Address	Email Address
1. <i>Laura Rindick</i>	985-497-2358	123 Rindick Ct. Edgard, LA 70049	
2. <i>Angelle Sterling</i>	504-912-0453	112 Terry Court Edgard, LA 70049	angelle.sterling@yahoo.com
3. <i>Luella Trend</i>	225-624-1518	157 West 9th P.O. Box 835 Wallace	Shirley m. Trend@hotmail.com
4. <i>Jay HUGHLEY</i>	504-237-7492	553 Foxwood Lane Laplace, LA 70068	Jayz11a@comcast.net
5. <i>Mary Farnell</i>	(985) 497-8425	282 East 6th St. Edgard, LA 70049	
6. <i>Miracle Mathis</i>			
7. <i>Pain Eddy Pla</i>			
8. <i>Phildier Hicks</i>	504-473-4658	124 Davis Ct. Laplace, LA	Phildier@gmail.com
9. <i>Wanda Barest-Barker</i>	(225) 623-8114	5921 Hwy #18 Wallace, LA	Wanda.Barest-barker@yahoo.com
10. <i>Hazy Hreant</i>	985-278-5229	182 West 4th St. Edgard, LA	


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Town Hall Meeting, West Bank Community Center, Edgard 09/22/14 - Hurricane Isaac Grant Programs

Name	Phone Number	Mailing Address	Email Address
1 Stephanie Daniels	504-287-8272	1502 Grant Dr Laplace, La. 70068	
2 Lucy Glasper	(985) 224-2161	2912 Yorktown Dr La Place, LA 70068	
3 Katherine Times	(504) 905-1017	1510 Belle Point Blvd La Place, LA 70068	
4 Loretta Hanson Delay	(225) 448-6896	1510 Belle Point Blvd La Place, LA 70068	Moretta, Manson Omega? icom
5 Alana Miles	985-618-6368	417 East 26th Reserve LA 70084	Tassin Tantalum abom gheoo
6 Karen Miles	985-479-0621	249 Chad Rd Reserve LA 70084	
7 Stella Johnson	985-536-4232	439 East 26th Reserve	
8 W. Fred [unclear]	985 497-8201	358 Hwy 18 Edgard	
9 [unclear] [unclear]	504 915 9181	2105 Cambridge Drive LA PLACE, LA	Carl W. [unclear] 4468.com
10 CAROLINA AILMAE	985 497- 5210	181 E 4th Street EDGAR, LA.	


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Town Hall Meeting, West Bank Community Center, Edgard 09/22/14 - Hurricane Isaac Grant Programs

Name	Phone Number	Mailing Address	Email Address
1 Keneisha Waxter	985- 212-5355	107 AMP ST P O BOX EDGAR LA, 70049	
2 Preston [unclear]	985 497-3713	456 Central Dr Edgard LA 70049	
3 [unclear] [unclear]	402-4435	2532 Hwy 18 Edgard LA	
4 Jail Boud	985 497 3164	168 E 5th Edgard	
5 [unclear] [unclear]	504 201-2691	540 Mockingbird St Rose La	
6 [unclear] [unclear]	985 267-2054	Central Ave. Edgard LA 70049	
7 [unclear] [unclear]	(504) 205-6049	133 E 10th St Edgard LA 70049	
8 Shirley Trend	225-4247	119 West 9th Vachon, LA	
9 [unclear] [unclear]	985- 703-1720	188 East 9th St Edgard, LA 70049	
10 [unclear] [unclear]	225-205-8939 225-206-4011	Madison La 70090	


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Town Hall Meeting, West Bank Community Center, Edgard 09/22/14 - Hurricane Isaac Grant Programs

Name	Phone Number	Mailing Address	Email Address
1 [unclear] [unclear]	225-2165-4831	145 W 12th Vachon LA 70090	
2 Christina Bump	504-3895225	158 East 14th St Edgard LA 70049	
3 [unclear] [unclear]	985 210 6670	234 East 14th Edgard LA 70049 or 985 210 6676 - 985 497 3381	
4 [unclear] [unclear]	985-497-8572	325 East 16th St Edgard, La. 70049	
5 [unclear] [unclear]	985-497-8942	152 East 5th St Edgard LA 70049	
6 Lana Ka Lewis	504 813-7730	P.O. Box 182 + 17th Central Avenue Edgard La. 70049	
7 Brenda C. Valentin	504-231-5553	115 West 4th St Edgard, LA 70049	
8 [unclear] [unclear]	504 345 3230	Edgard	
9 [unclear] [unclear]	504 267-2115	119 East 15th Edgard LA 70049	
10 Rita Baker	225 624 9614	116th E 16th St Edgard LA 70049	


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Town Hall Meeting, West Bank Community Center, Edgard 09/22/14 - Hurricane Isaac Grant Programs

Name	Phone Number	Mailing Address	Email Address
1. Mary Mitchell	985-497-8826	P.O. Box 313 Edgard LA	
2. Adam Sumner	504-218-9445		
3. Jerome Sumner	504-957-2853	P.O. Box 204 Edgard LA	
4. CERALD BORNE	504-206-7880	109 EUGENE ST, MARTIN LA VACATIONE, LA	
5. Nicole Louis	225-2054	172 Central Ave Edgard	
6. Paul Commune	985-267-1004	226 West 4th St Edgard	guyilmcjs@ntconline.com
7. Doutha Winton	(504)5635721	103 NW 18th St Reserve	
8. Tanya Bailey		PO Box 1574 Walling, LA 70070	tanya.bailey@yahoo.com
9. Linda Dangerfield	985-651-9003	PO Box 524 Laplace, LA 70067-0524	ldangerfield@comcast.net
10. Richard Sanchez	504-410-6730	244 West 3rd St Edgard, LA	n/a


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Name	Phone Number	Mailing Address	Email Address
1. Jerry Kenner	(985) 212-7807	1506 Grant St Laplace LA	Kenner.Black@yohoco.com
2. Joseph Kenner	504-415-4624	1506 Grant St. Laplace LA	kennerj@yohoco.com
3. Mary Adams	985-497-5559	399 Central Ave Edgard LA 70029	
4. Ethel Smith	985-267-1058	P.O. Box 495 Edgard LA 70029	
5. Felicia Austin	70-881-3669	517 West 87th Bay St. Slidell, LA	marieaustin@bellco.net
6. Marie Populo	985-497-5298	134 W. 4th St. Edgard LA 70029	
7. Shyma Thindal	985-497-8813	130 Franklin St Edgard, LA 70029	
8. Jeanette Jones	985-324-4242	P.O. Box 113 Edgard LA	
9. Veronice Lopez	985-265-3877	213 W 9th St Laplace LA 70068	
10. Mary Lou Boudin	504-218-3277	P.O. Box 454 Edgard LA 70029	morestyle@earthlink.net


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Town Hall Meeting, West Bank Community Center, Edgard 09/22/14 - Hurricane Isaac Grant Programs

Name	Phone Number	Mailing Address	Email Address
1. Andrea Bethancourt	985-497-3030	105 E. 13th Edgard LA 70029	
2. Carol Adams	985-497-6660	183 E 1st St Edgard LA	
3. Melinda Edwards	504-616-438	130 W 3rd St Edgard, LA 70029	
4. Kirt's Brock	985-497-3311	190 E. 6th St 70029	
5. Helen Helani	985-497-5316	171 E. 4th St	
6. Bridget Downing	225-624-5311	1985 Hwy 18 Edgard LA 70029	
7. James P. Jones	985-497-3640	PO Box 187 Edgard LA 70029	
8. Myrt Walker	497-8526	PO Box 385 Edgard LA 70029	
9. Ellis Kelly	497-8744	238 W 4th St Edgard LA 70029	
10. WAREND TORRES	985-535-6843	112 SHANEY LANE Reserve LA 70068	

**OUTREACH EFFORT:** “No Dumping” Signage

**LOCATION:** Areas throughout St. John the Baptist Parish



**MITIGATION EFFORTS:** Storm surge, water level sensor installation in Lake Ponchartrain

**DATE:** September 25, 2015

**LOCATION:** Western portion of Lake Ponchartrain



**ST. JOHN**  
THE BAPTIST PARISH

NATALIE ROBOTOM  
PARISH PRESIDENT

For Immediate Release  
Contact Communications Department  
985-652-9569 or [communications@sjbparish.com](mailto:communications@sjbparish.com)

**Storm surge, water level sensors installed in Lake Pontchartrain**

*By Littice Bacon-Blood, NOLA.com | The Times-Picayune*



St. John the Baptist Parish and state officials, along with officials from the National Weather Service and the National Oceanic and Atmospheric Administration, gathered Wednesday to dedicate a technological first for the parish - the ability to detect with better accuracy water levels and storm surge height from pending storms.

Water level and weather sensors have been installed in the western portion of Lake Pontchartrain that officials say will improve storm surge modeling and enhance public safety advisories for residents.

The devastation left in the storm's wake drew a visit from President Barack Obama, and help to fast-track federal plans for a \$718 million storm protection levee. High-tech weather sensor installed along Lake Pontchartrain NOAA and the NWS installed a high-tech weather station along Lake Pontchartrain near Laplace.

The real-time sensors will continuously monitor water levels in the lake, including those produced by storm surge. A meteorological sensor system, installed by the National Oceanic and Atmospheric Administration's National Weather Service, measures temperature, humidity, wind, rain, and pressure at Frenier Landing in LaPlace. Both sensors are designed to withstand winds of 110 miles per hour, officials said.

"I'd like to thank Ken Graham and his team with the National Weather Service for working cooperatively with NOAA to acquire and install the new storm hardened water levels and storm surge station at LaPlace," Robottom said.

###

St. John the Baptist Parish | 985-652-9569  
<http://www.sjbparish.com>  
1801 West Airline Hwy  
LaPlace, LA 70068

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