St. Tammany Parish Hazard Mitigation Plan Update Public Meeting

June 18, 2020

Zoom Video Conference

LSU | Stephenson Disaster Management Institute

Introductions

- **Stephenson Disaster Management Institute (SDMI) at LSU**
  - Lauren Stevens – Associate Director, Disaster Management Programs
  - Chris Rippetoe – Hazard Mitigation Program Manager
  - Catherine Street – Hazard Mitigation Student Worker
- **St. Tammany Parish OHSEP Director/Parish Staff**
  - Clarence Powe– OHSEP Director
- **Governor's Office of Homeland Security and Emergency Preparedness (GOHSEP)**
  - Jeffrey Giering – State Hazard Mitigation Officer

LSU | Stephenson Disaster Management Institute

Agenda

- Introductions
- Zoom Ground Rules
- Hazard Mitigation Overview
- Hazard Mitigation
- Planning Process Risk Assessment
- Public Outreach Activity

ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

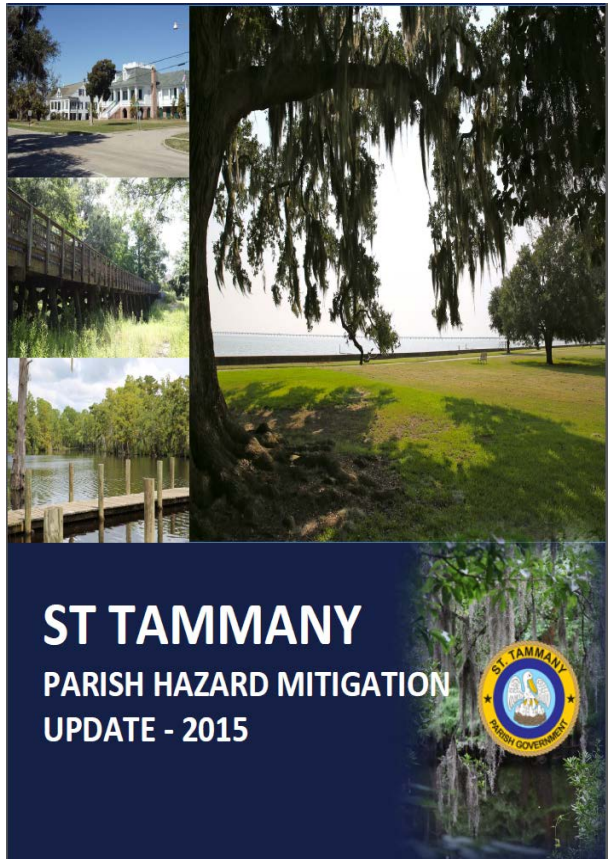
Zoom Meeting Ground Rules

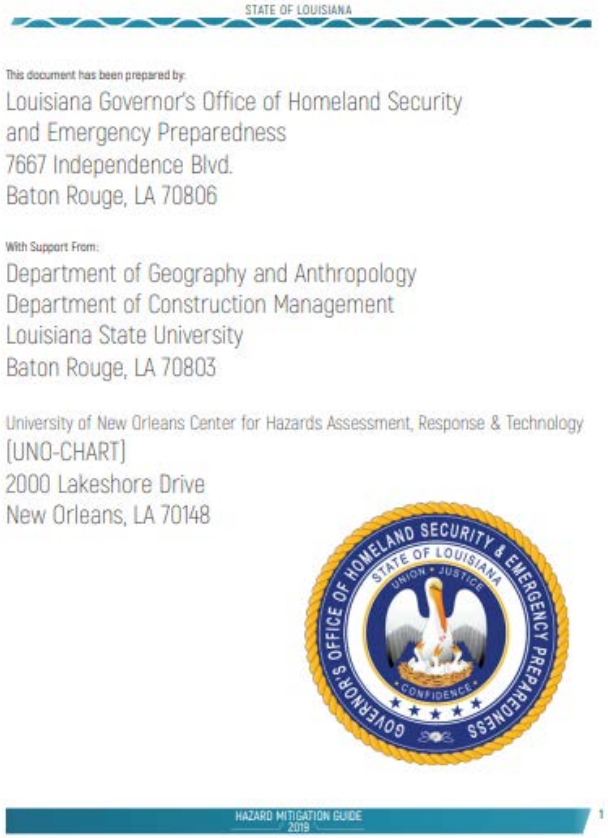
- All microphones **will be muted** for the duration of the meeting, with the exception of the host and designated co-hosts.
- If using web-cams, please be aware of your surroundings as to not distract others.
- Please utilize the chat function for all collaborative discussion and questions.
- We will answer all questions posted in the chat at the end of the PowerPoint presentation.
- The host or co-host have the ability to remove participants for inappropriate or off-topic comments in the chat.

ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

Why Are We Here?





Hazard Mitigation Is…..

- Any action taken to reduce long term risk to life and property;
- On-going process that occurs before, during, and after disasters;
- Mitigation actions help prevent damage to a *community's infrastructure*, *economic, cultural* and *environmental assets*;
- Implementation of mitigation actions leads to building stronger, safer and smarter!

ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

Why Are We Required To Have A Hazard Mitigation Plan?

- Disaster Mitigation Act of 2000 (DMA 2000)

Section 322 of the Act specifically addresses mitigation planning and requires state and local governments to prepare multi-hazard migration plans as a precondition for receiving FEMA mitigation project grants.

- Meet federal requirements of Title 44 Code of Regulations (CFR) §201.6 for approval and eligibility to apply for FEMA Hazard Mitigation Assistance grant programs.

- The approved St. Tammany Parish Hazard Mitigation Plan will allow for distribution of HM funding following future disasters.

Planning Process to Date

Initial Planning Meeting with OHSEP

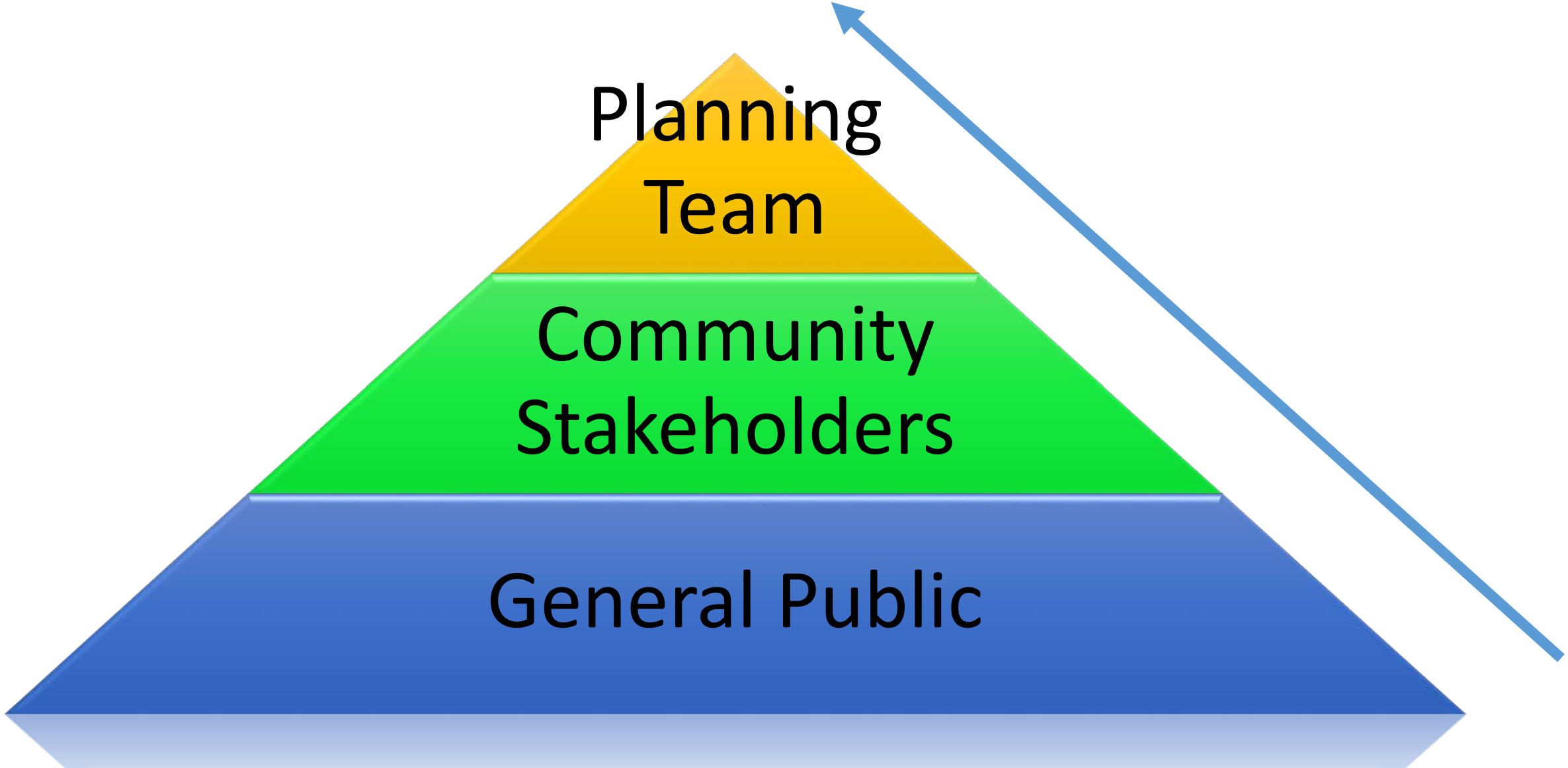
Kick off Meeting with Steering Committee

Public Meeting

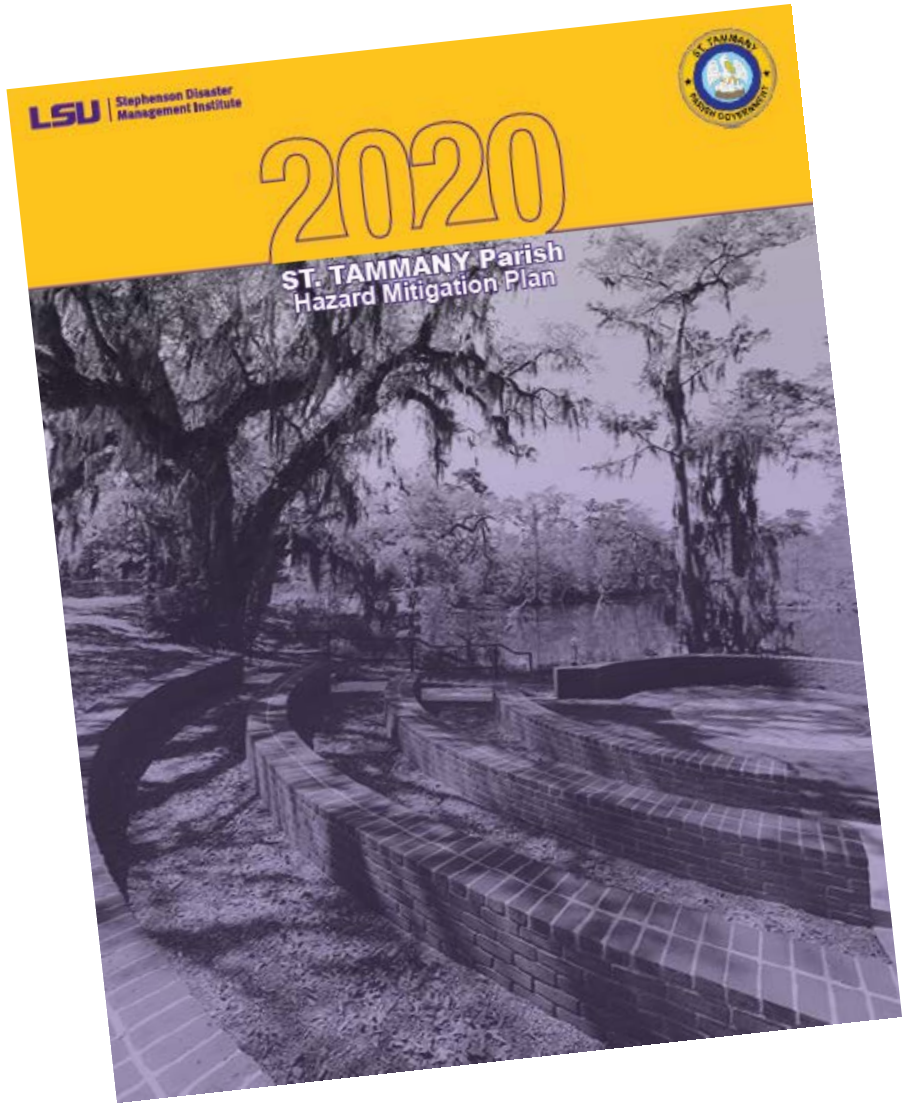
ST. TAMMANY PARISH GOVERNMENT

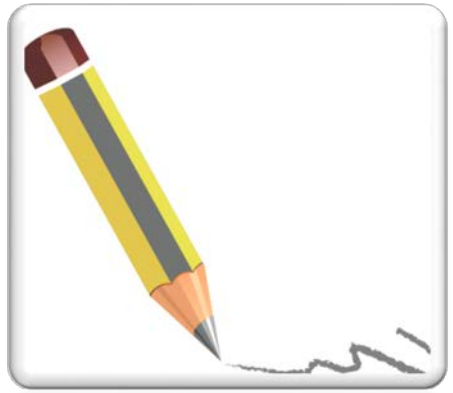
LSU | Stephenson Disaster Management Institute

Collaborative Planning Approach



Planning Development





ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

Plan Layout

- **Section 1: Introduction**
  - Updated parish description
  - Updated demographics
  - Economics
- **Section 2: Hazard Identification and Parish-wide Risk Assessment**
- **Section 3: Capability Assessment**
- **Section 4: Mitigation Strategies**
  - New actions
  - Action updates
  - Survey results

LSU | Stephenson Disaster Management Institute

Plan Layout

- **Appendix A**: Planning Process
- **Appendix B**: Plan Maintenance
- **Appendix C**: Parish Essential Facilities
- **Appendix D**: Plan Adoption
- **Appendix E**: State Required Worksheets
- **Appendix F:** Community Rating System (CRS)

LSU | Stephenson Disaster Management Institute

Hazard Identification and Risk Assessment

- The plan includes descriptions of the natural hazards that affect the jurisdictions in the planning area.

- The hazards identification includes the following:
  - *locations affected*
  - *extent or strength*
  - *previous occurrences*
  - *probability of future events*

LSU | Stephenson Disaster Management Institute

Hazard Identification and Risk Assessment

- Based on Currently Profiled Risks
- Any Newly Identified Risks
- Prevalent Hazards
- Previous Occurrences
- Probability of Future Events
- Assets Inventory
- Essential Facilities
- Hazard Impact
- Future Development
- Future Hazard Impacts
- Zoning and Land Use
- Hazard Profiles

ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

Hazard Identification and Risk Assessment

- Coastal Land Loss
- Drought
- Flooding
- Fog
- Levee/Dam Failure
- Termites
- Thunderstorms/ Lightning/High Winds
- Tropical Cyclones
- Tornadoes
- Wildfires

ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

Priority Risk Index for St. Tammany Parish

Hazard	Probability	Impact	Spatial Extent	Warning Time	Duration	Overall Risk
Coastal Hazards	4	2	4	1	3	2.9
Dam Failure	1	2	2	4	2	2.05
Drought	2	4	4	1	4	3.05
Flooding	3	4	3	4	3	3.4
Fog	3	2	2	3	1	2.25
Levee Failure	1	3	2	4	2	2.3
Termites	4	2	1	1	2	2.15
Thunderstorms - Hail	3	2	3	3	1	2.45
Thunderstorms - Lightning	3	2	2	3	1	2.25
Thunderstorms - Winds	3	2	2	3	1	2.25
Tornadoes	3	3	2	4	3	2.95
Tropical Cyclones	4	4	4	1	4	3.55
Wildfires	1	3	3	4	4	2.8

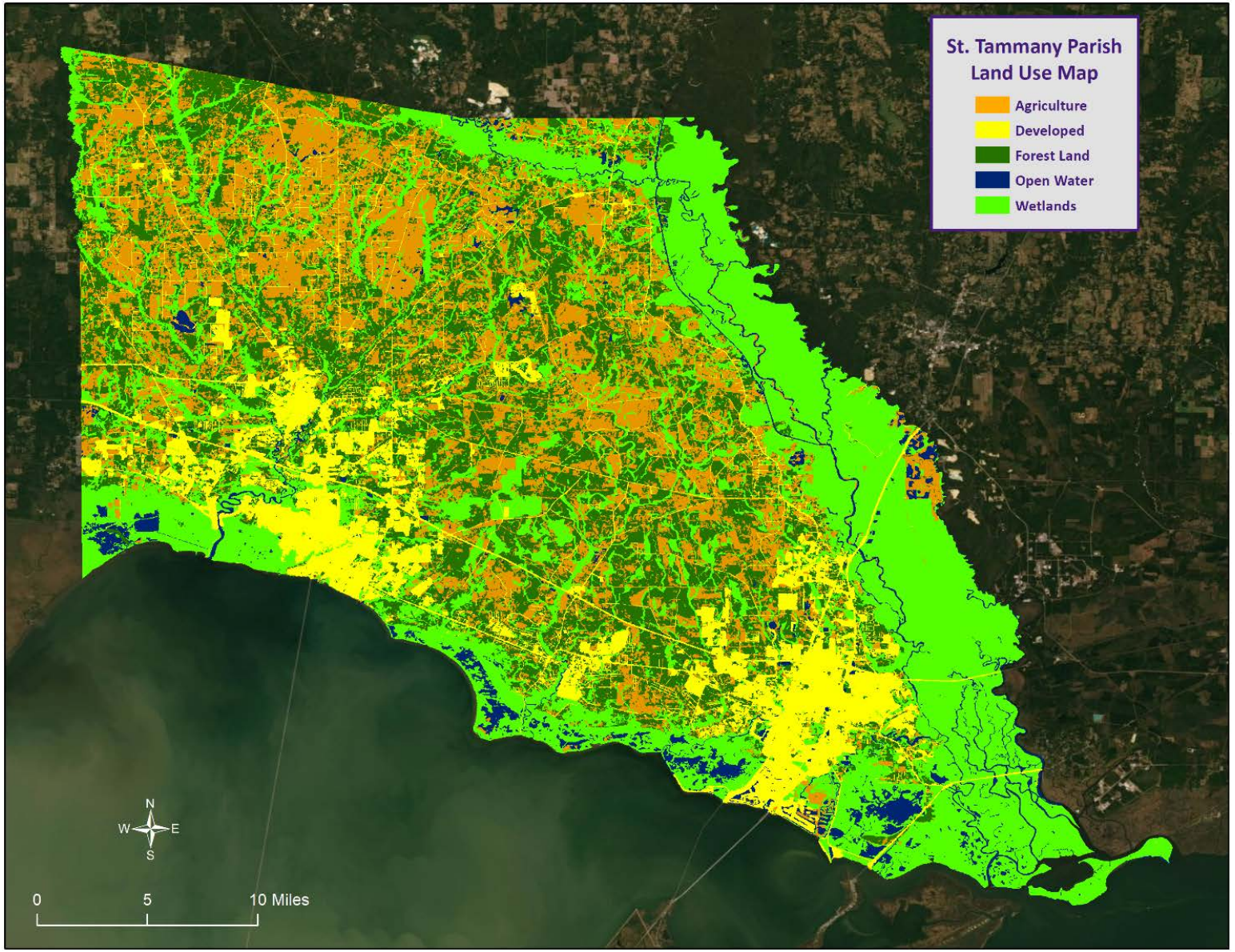
ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

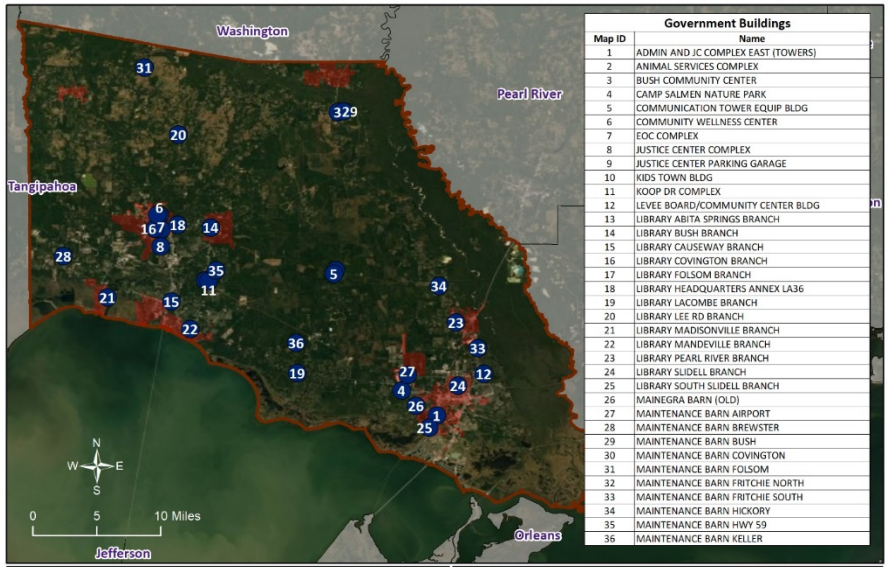
Risk Assessment Maps

LSU | Stephenson Disaster Management Institute

St. Tammany Parish Land Use

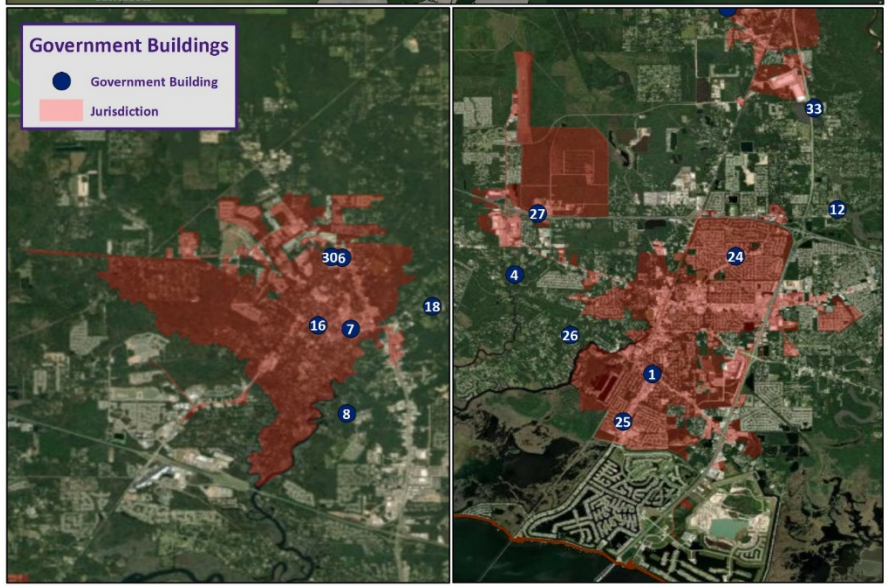


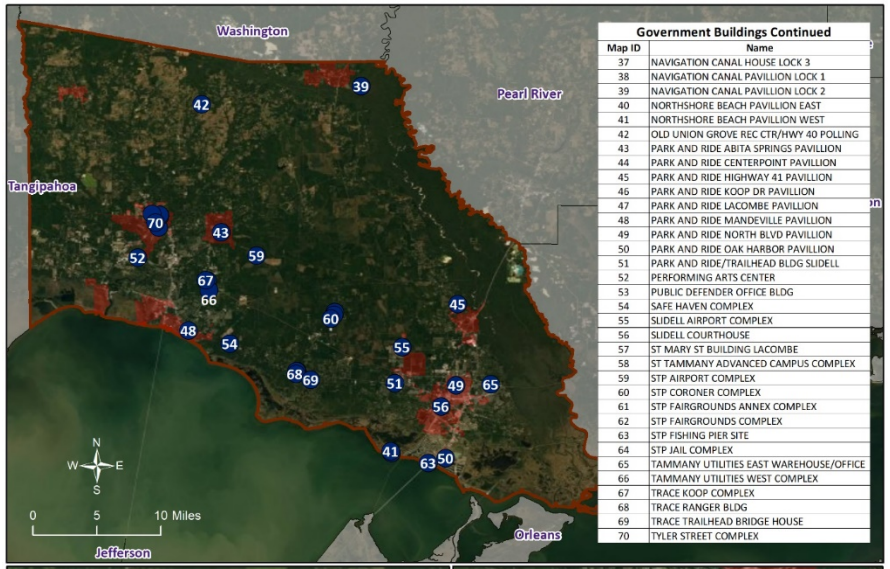
Critical Facilities:
Civil Government



Government Buildings

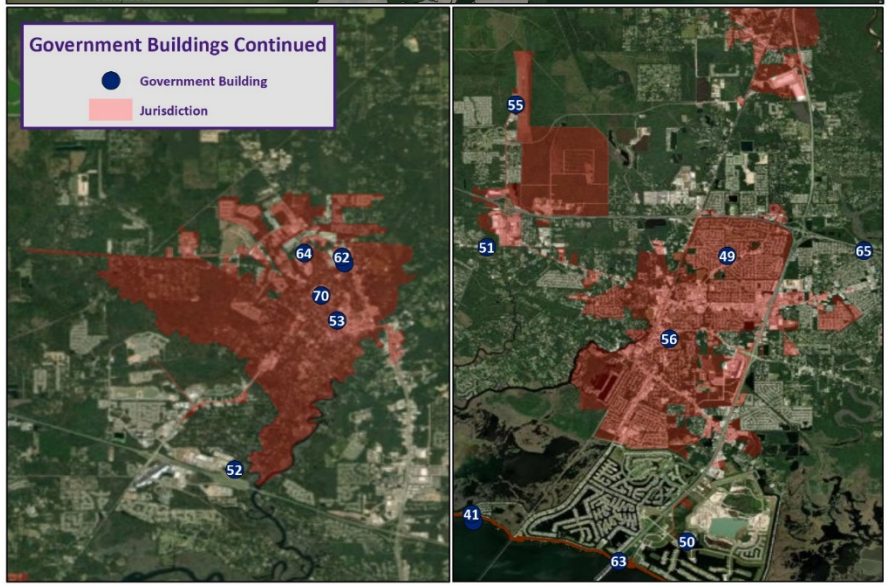
Map ID	Name
1	ADMIN AND JC COMPLEX EAST (TOWERS)
2	ANIMAL SERVICES COMPLEX
3	BUSH COMMUNITY CENTER
4	CAMP SALMEN NATURE PARK
5	COMMUNICATION TOWER EQUIP BLDG
6	COMMUNITY WELLNESS CENTER
7	EOC COMPLEX
8	JUSTICE CENTER COMPLEX
9	JUSTICE CENTER PARKING GARAGE
10	KIDS TOWN BLDG
11	KOOP DR COMPLEX
12	LEVEE BOARD/COMMUNITY CENTER BLDG
13	LIBRARY ABITA SPRINGS BRANCH
14	LIBRARY BUSH BRANCH
15	LIBRARY CAUSEWAY BRANCH
16	LIBRARY COVINGTON BRANCH
17	LIBRARY FOLSOM BRANCH
18	LIBRARY HEADQUARTERS ANNEX LA36
19	LIBRARY LACOMBE BRANCH
20	LIBRARY LEE RD BRANCH
21	LIBRARY MADISONVILLE BRANCH
22	LIBRARY MANDEVILLE BRANCH
23	LIBRARY PEARL RIVER BRANCH
24	LIBRARY SLIDELL BRANCH
25	LIBRARY SOUTH SLIDELL BRANCH
26	MAINEGRA BARN (OLD)
27	MAINTENANCE BARN AIRPORT
28	MAINTENANCE BARN BREWSTER
29	MAINTENANCE BARN BUSH
30	MAINTENANCE BARN COVINGTON
31	MAINTENANCE BARN FOLSOM
32	MAINTENANCE BARN FRITCHIE NORTH
33	MAINTENANCE BARN FRITCHIE SOUTH
34	MAINTENANCE BARN HICKORY
35	MAINTENANCE BARN HWY 59
36	MAINTENANCE BARN KELLER



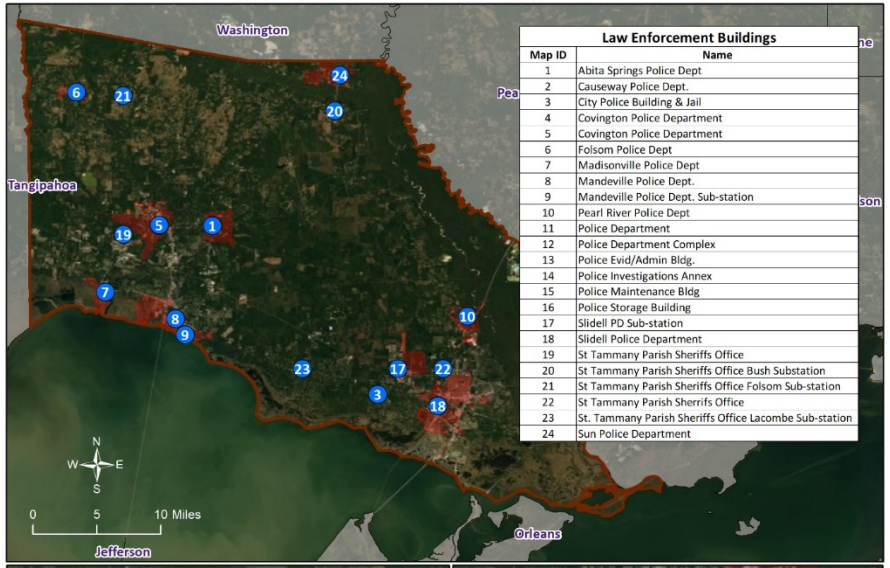


Government Buildings Continued

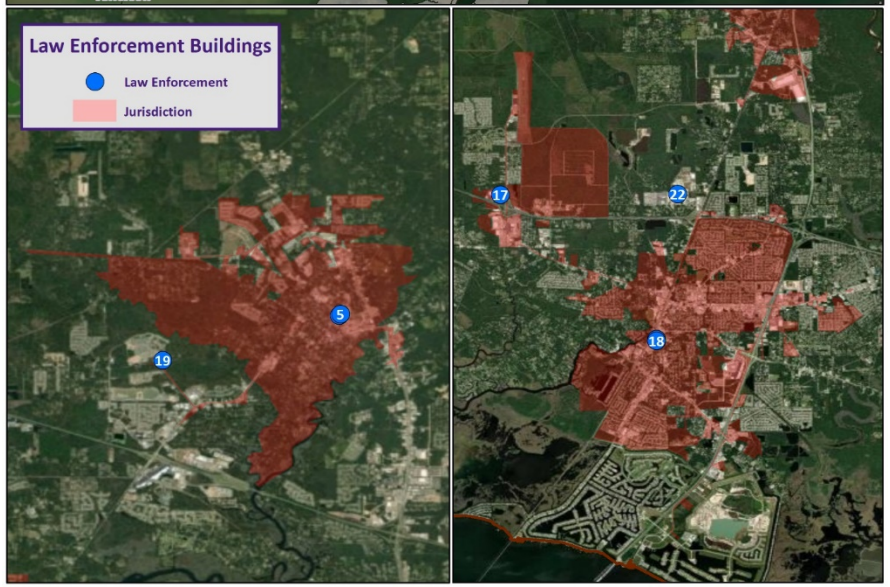
Map ID	Name
37	NAVIGATION CANAL HOUSE LOCK 3
38	NAVIGATION CANAL PAVILLION LOCK 1
39	NAVIGATION CANAL PAVILLION LOCK 2
40	NORTHSHORE BEACH PAVILLION EAST
41	NORTHSHORE BEACH PAVILLION WEST
42	OLD UNION GROVE REC CTR/HWY 40 POLLING
43	PARK AND RIDE ABITA SPRINGS PAVILLION
44	PARK AND RIDE CENTERPOINT PAVILLION
45	PARK AND RIDE HIGHWAY 41 PAVILLION
46	PARK AND RIDE KOOP DR PAVILLION
47	PARK AND RIDE LACOMBE PAVILLION
48	PARK AND RIDE MANDEVILLE PAVILLION
49	PARK AND RIDE NORTH BLVD PAVILLION
50	PARK AND RIDE OAK HARBOR PAVILLION
51	PARK AND RIDE/TRAILHEAD BLDG SLIDELL
52	PERFORMING ARTS CENTER
53	PUBLIC DEFENDER OFFICE BLDG
54	SAFE HAVEN COMPLEX
55	SLIDELL AIRPORT COMPLEX
56	SLIDELL COURTHOUSE
57	ST MARY ST BUILDING LACOMBE
58	ST TAMMANY ADVANCED CAMPUS COMPLEX
59	STP AIRPORT COMPLEX
60	STP CORONER COMPLEX
61	STP FAIRGROUNDS ANNEX COMPLEX
62	STP FAIRGROUNDS COMPLEX
63	STP FISHING PIER SITE
64	STP JAIL COMPLEX
65	TAMMANY UTILITIES EAST WAREHOUSE/OFFICE
66	TAMMANY UTILITIES WEST COMPLEX
67	TRACE KOOP COMPLEX
68	TRACE RANGER BLDG
69	TRACE TRAILHEAD BRIDGE HOUSE
70	TYLER STREET COMPLEX



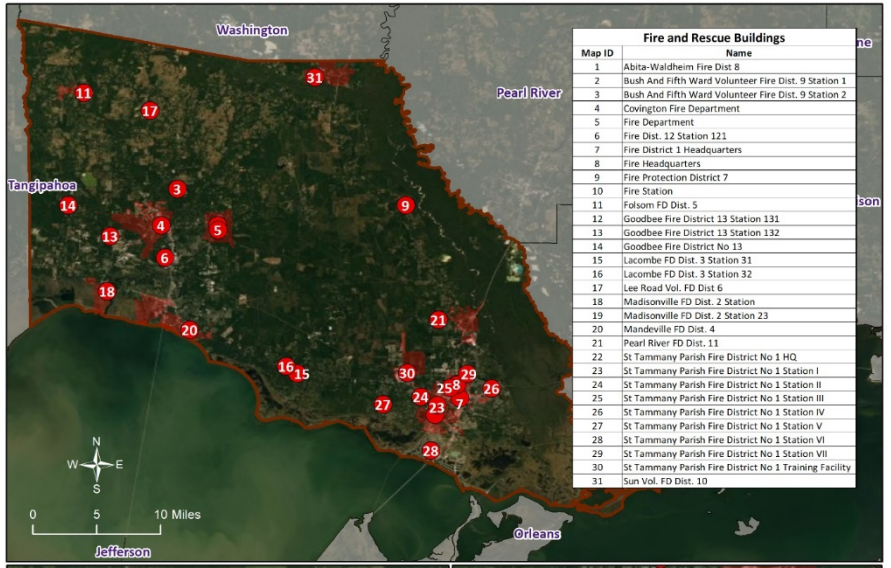
Critical Facilities: Law Enforcement



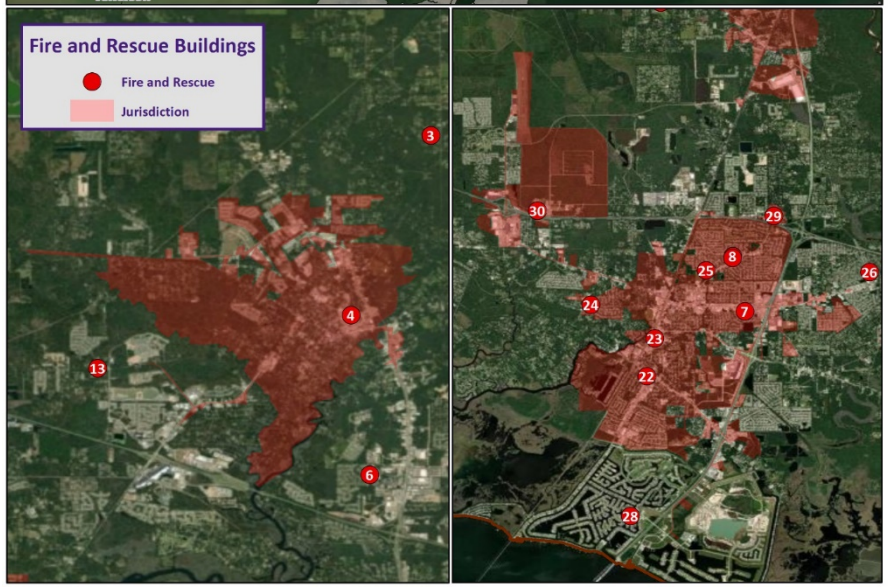
Law Enforcement Buildings	
Map ID	Name
1	Abita Springs Police Dept
2	Causeway Police Dept.
3	City Police Building & Jail
4	Covington Police Department
5	Covington Police Department
6	Folsom Police Dept
7	Madisonville Police Dept
8	Mandeville Police Dept.
9	Mandeville Police Dept. Sub-station
10	Pearl River Police Dept
11	Police Department
12	Police Department Complex
13	Police Evid/Admin Bldg.
14	Police Investigations Annex
15	Police Maintenance Bldg
16	Police Storage Building
17	Slidell PD Sub-station
18	Slidell Police Department
19	St Tammany Parish Sheriffs Office
20	St Tammany Parish Sheriffs Office Bush Substation
21	St Tammany Parish Sheriffs Office Folsom Sub-station
22	St Tammany Parish Sherrifs Office
23	St. Tammany Parish Sheriffs Office Lacombe Sub-station
24	Sun Police Department



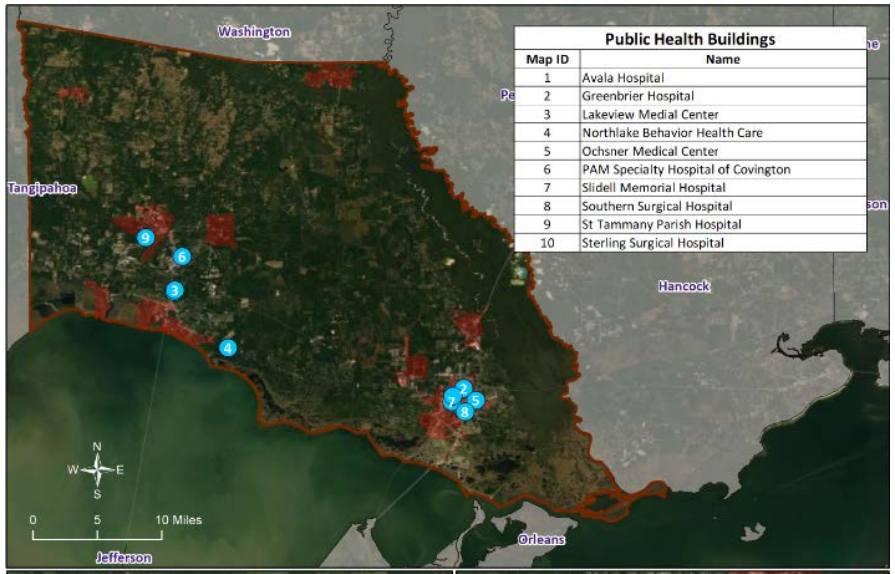
Critical Facilities: Fire & SAR



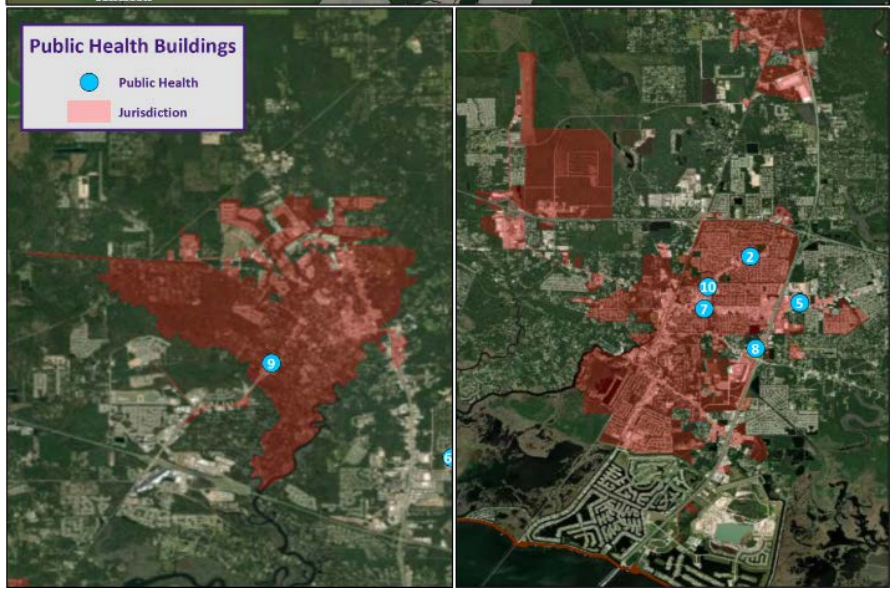
Fire and Rescue Buildings	
Map ID	Name
1	Abita-Waldheim Fire Dist 8
2	Bush And Fifth Ward Volunteer Fire Dist. 9 Station 1
3	Bush And Fifth Ward Volunteer Fire Dist. 9 Station 2
4	Covington Fire Department
5	Fire Department
6	Fire Dist. 12 Station 121
7	Fire District 1 Headquarters
8	Fire Headquarters
9	Fire Protection District 7
10	Fire Station
11	Folsom FD Dist. 5
12	Goodbee Fire District 13 Station 131
13	Goodbee Fire District 13 Station 132
14	Goodbee Fire District No 13
15	Lacombe FD Dist. 3 Station 31
16	Lacombe FD Dist. 3 Station 32
17	Lee Road Vol. FD Dist 6
18	Madisonville FD Dist. 2 Station
19	Madisonville FD Dist. 2 Station 23
20	Mandeville FD Dist. 4
21	Pearl River FD Dist. 11
22	St Tammany Parish Fire District No 1 HQ
23	St Tammany Parish Fire District No 1 Station I
24	St Tammany Parish Fire District No 1 Station II
25	St Tammany Parish Fire District No 1 Station III
26	St Tammany Parish Fire District No 1 Station IV
27	St Tammany Parish Fire District No 1 Station V
28	St Tammany Parish Fire District No 1 Station VI
29	St Tammany Parish Fire District No 1 Station VII
30	St Tammany Parish Fire District No 1 Training Facility
31	Sun Vol. FD Dist. 10



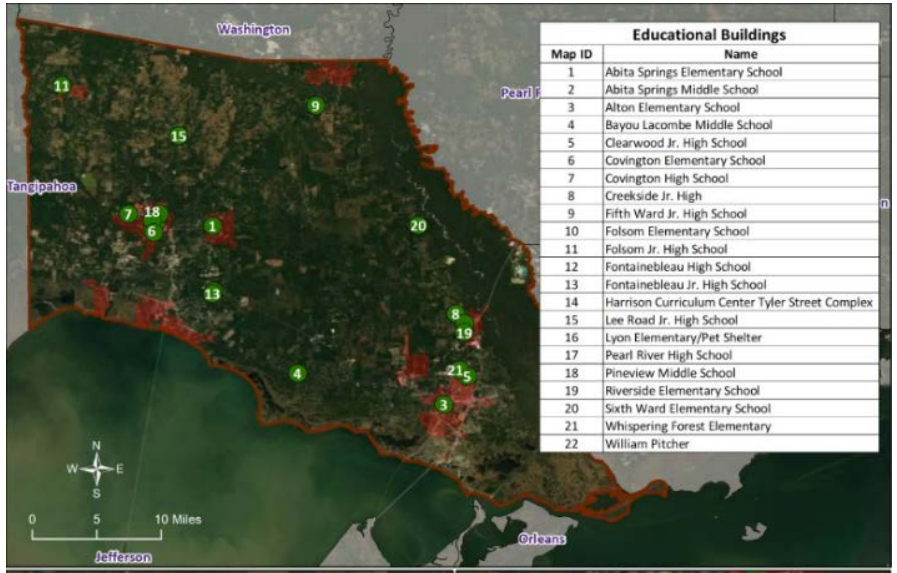
Critical Facilities: Public Health



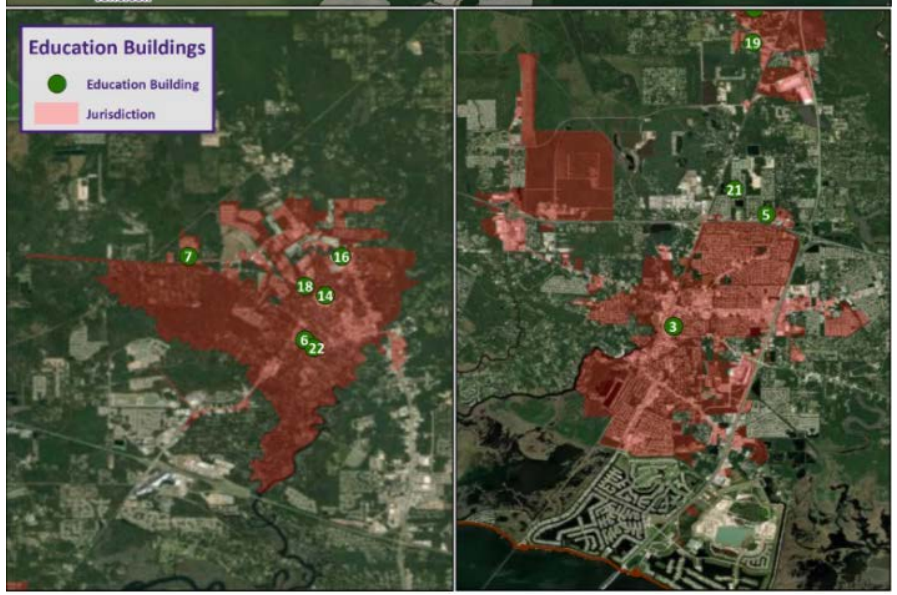
Public Health Buildings	
Map ID	Name
1	Avala Hospital
2	Greenbrier Hospital
3	Lakeview Medial Center
4	Northlake Behavior Health Care
5	Ochsner Medical Center
6	PAM Specialty Hospital of Covington
7	Slidell Memorial Hospital
8	Southern Surgical Hospital
9	St Tammany Parish Hospital
10	Sterling Surgical Hospital



Critical Facilities: Education



Educational Buildings	
Map ID	Name
1	Abita Springs Elementary School
2	Abita Springs Middle School
3	Alton Elementary School
4	Bayou Lacombe Middle School
5	Clearwood Jr. High School
6	Covington Elementary School
7	Covington High School
8	Creekside Jr. High
9	Fifth Ward Jr. High School
10	Folsom Elementary School
11	Folsom Jr. High School
12	Fontainebleau High School
13	Fontainebleau Jr. High School
14	Harrison Curriculum Center Tyler Street Complex
15	Lee Road Jr. High School
16	Lyon Elementary/Pet Shelter
17	Pearl River High School
18	Pineview Middle School
19	Riverside Elementary School
20	Sixth Ward Elementary School
21	Whispering Forest Elementary
22	William Pitcher



Flooding

- A flood is the overflow of water onto land that is usually not inundated.

- The National Flood Insurance Program 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.”

ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

Flooding

Types of flooding may include the following:

- Riverine
- Flash
- Ponding
- Backwater
- Urban
- Coastal

ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

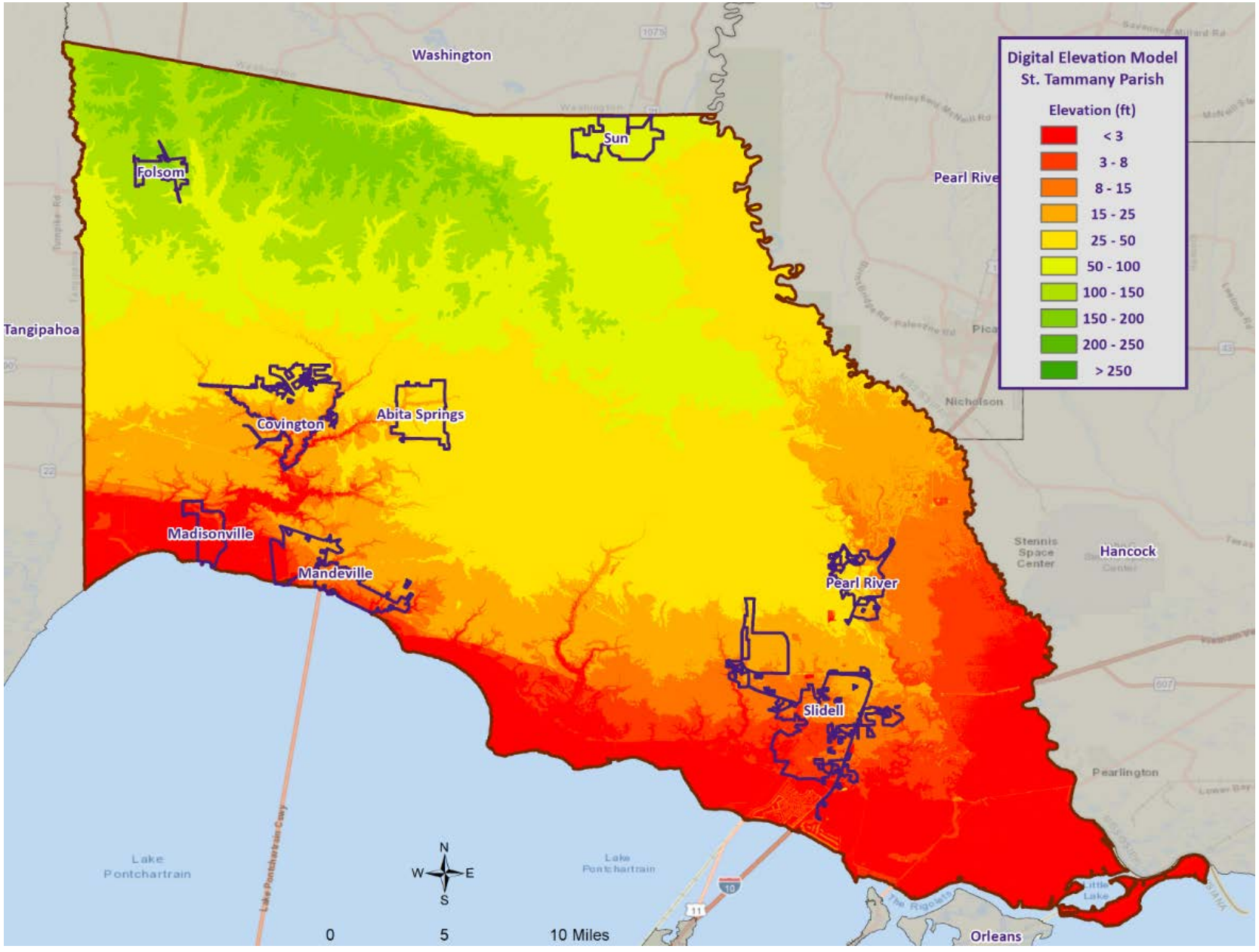
Flooding

- Some areas flood more often than other properties, even more than those in the mapped 100-year floodplain.
- FEMA defines a “repetitive loss” property as one which has received two flood insurance claim payments for at least $1,000 over any 10-year period since 1978.
- These properties are important to the National Flood Insurance Program and the Community Rating System because even though they comprise 1% of the policy base, they account for 30% of the country’s flood insurance claim payments.

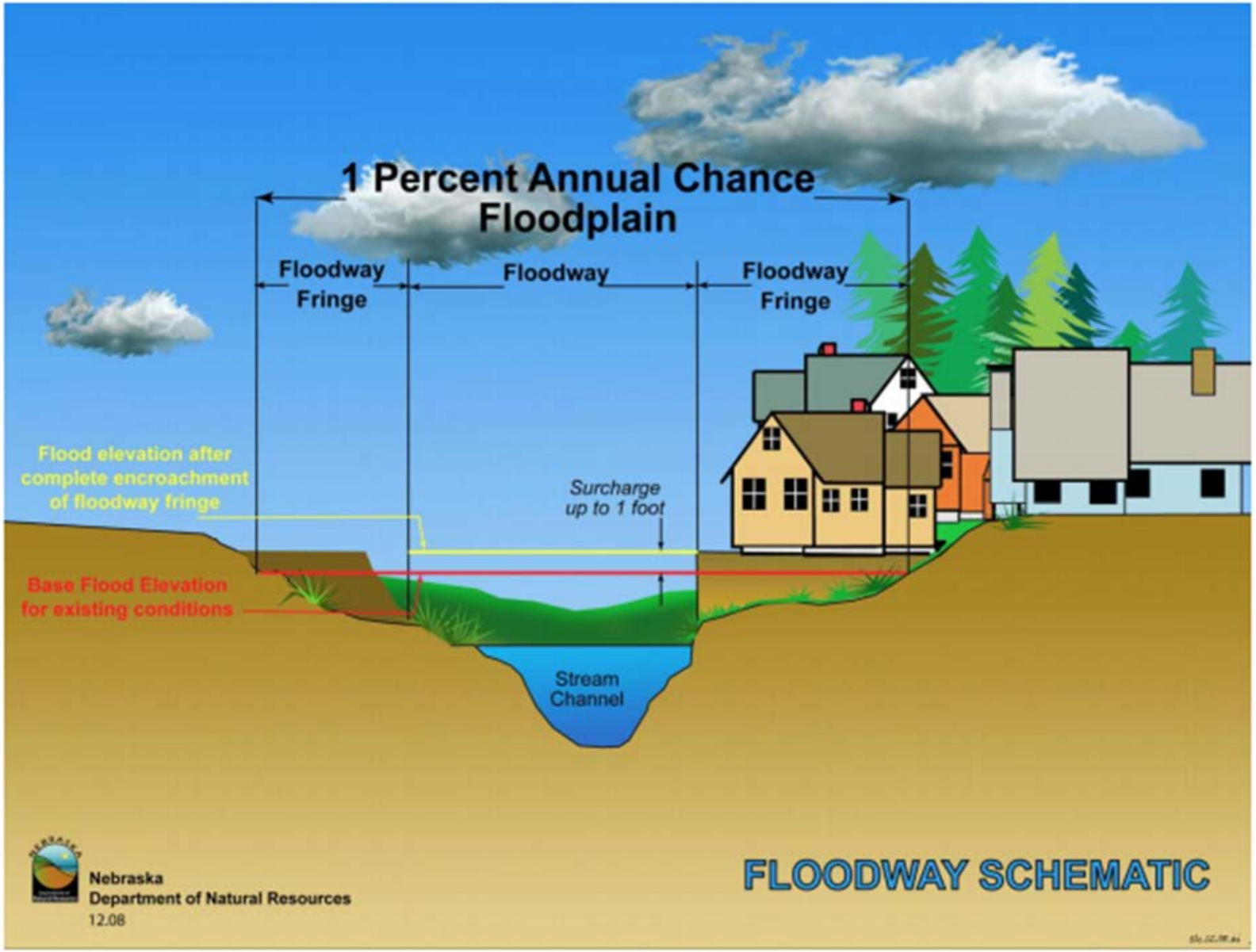
ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

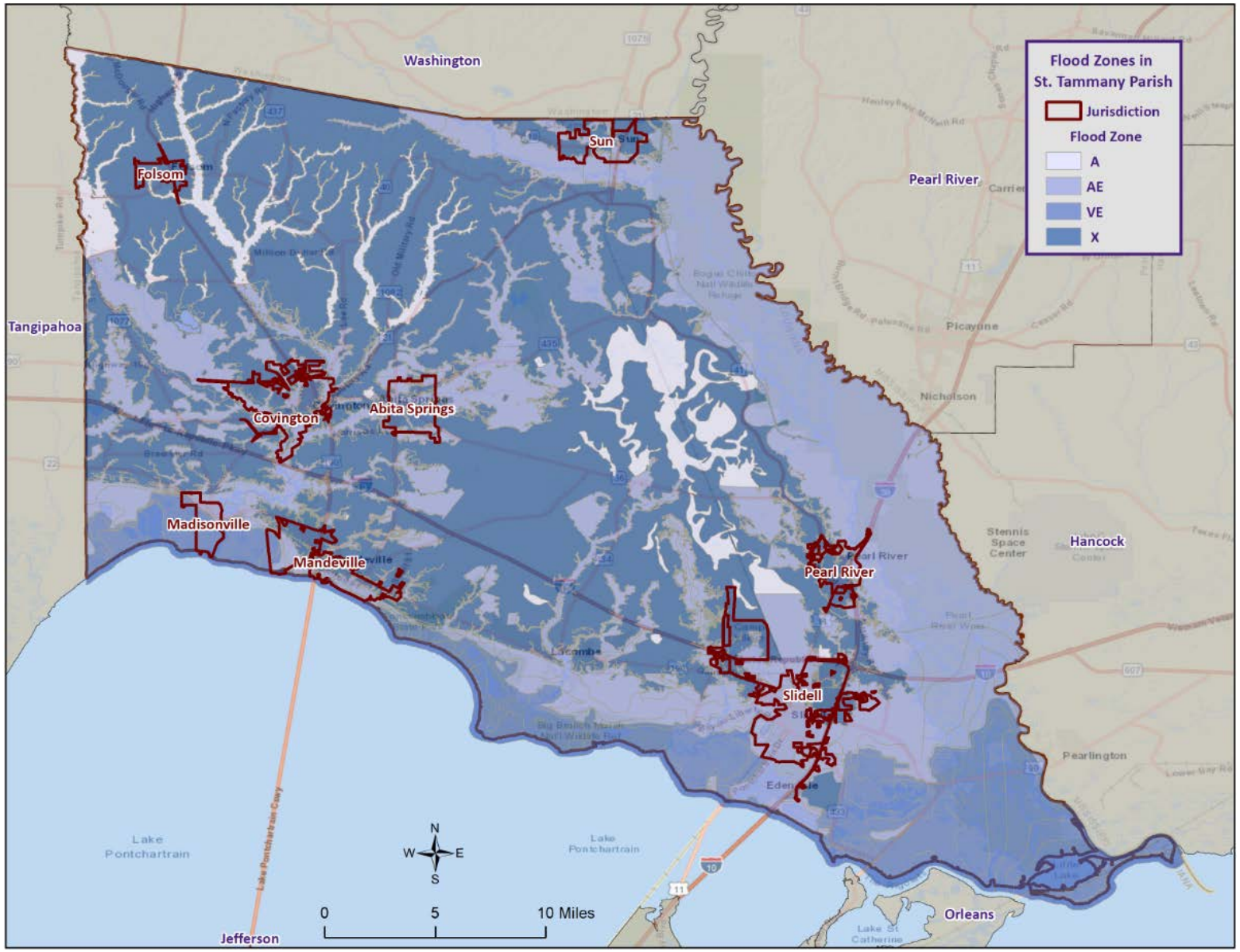
Digital Elevation Model



Floodway Diagram

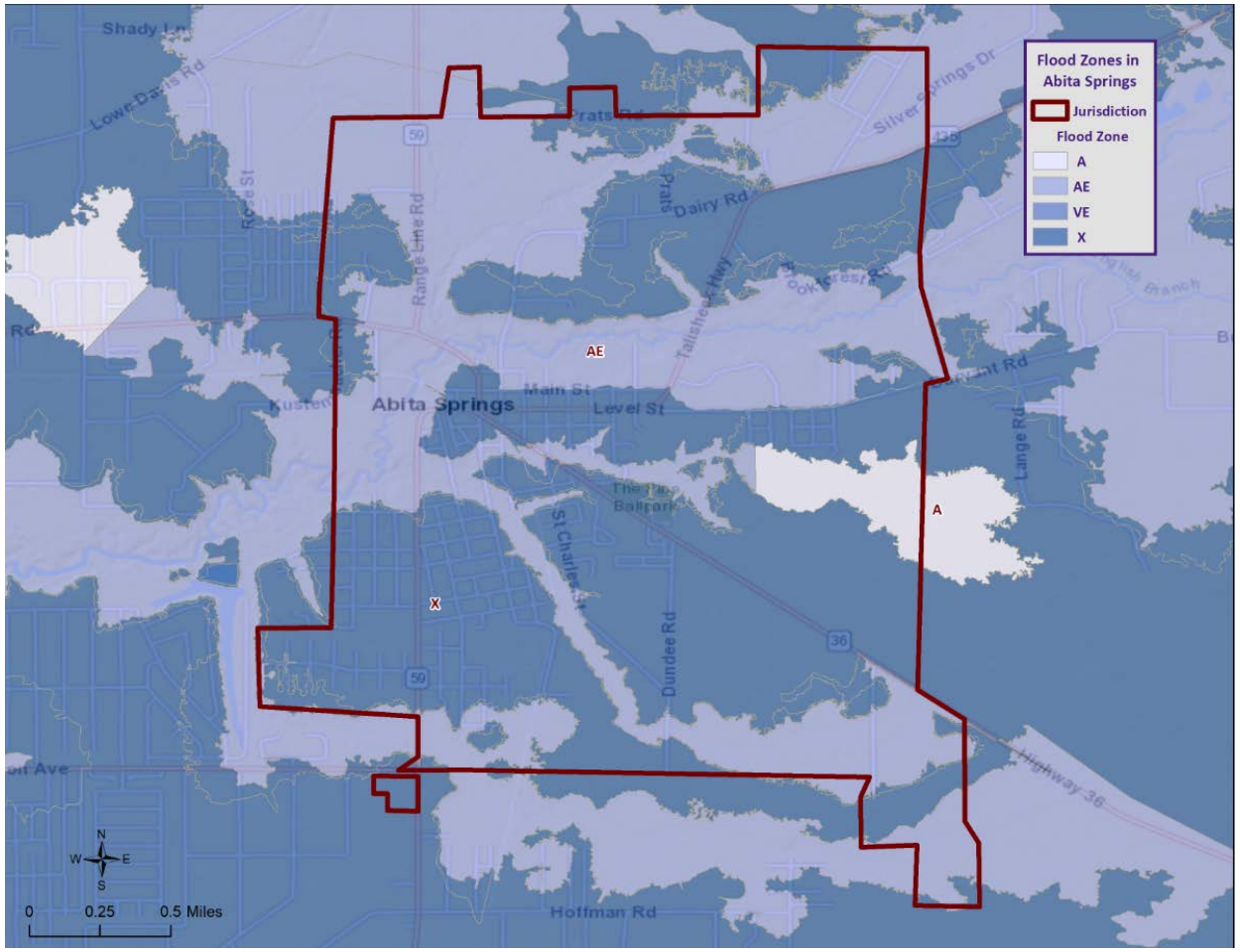


St. Tammany Parish Flood Map

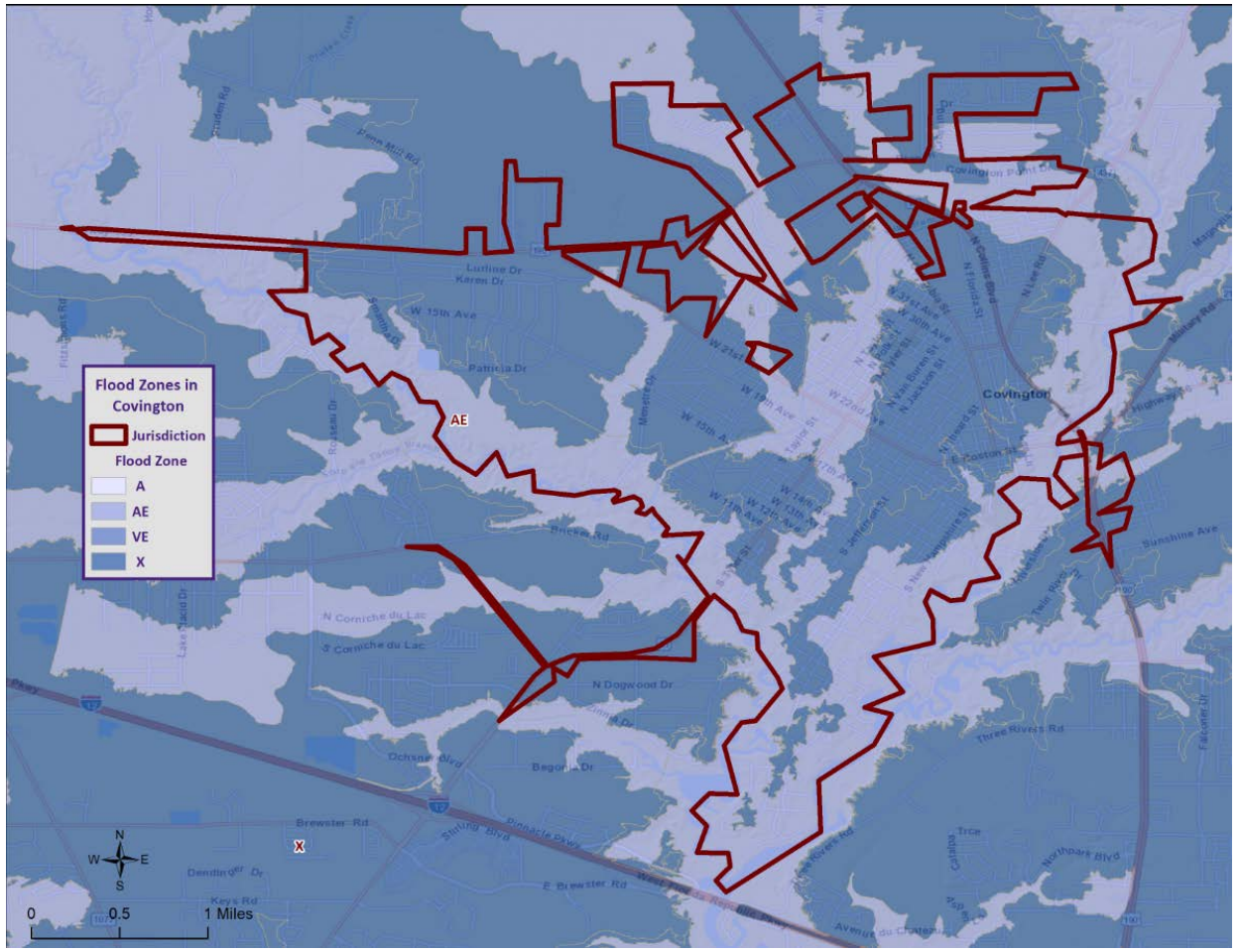


Flood Maps

Abita Springs

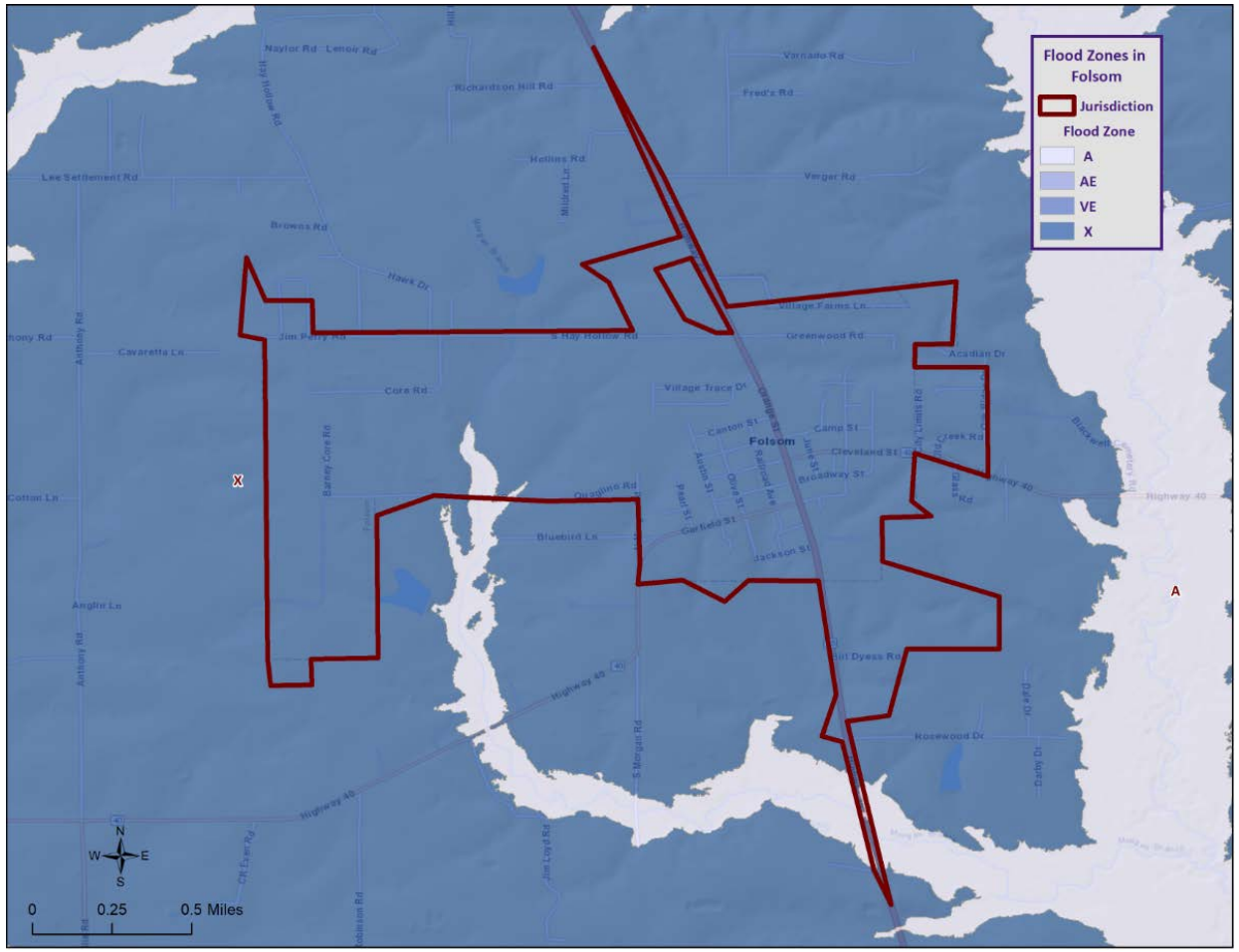


Covington

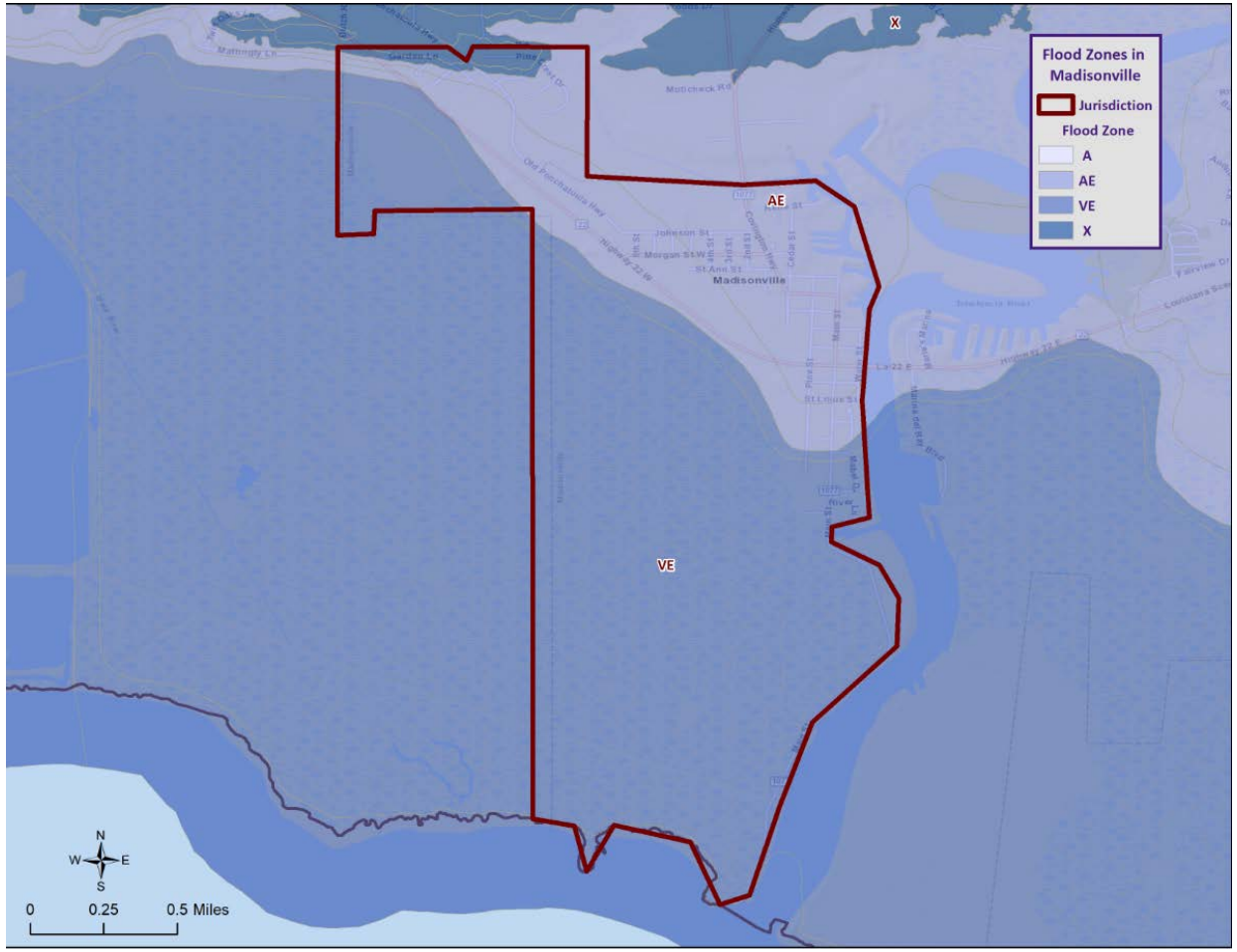


Flood Maps

Folsom

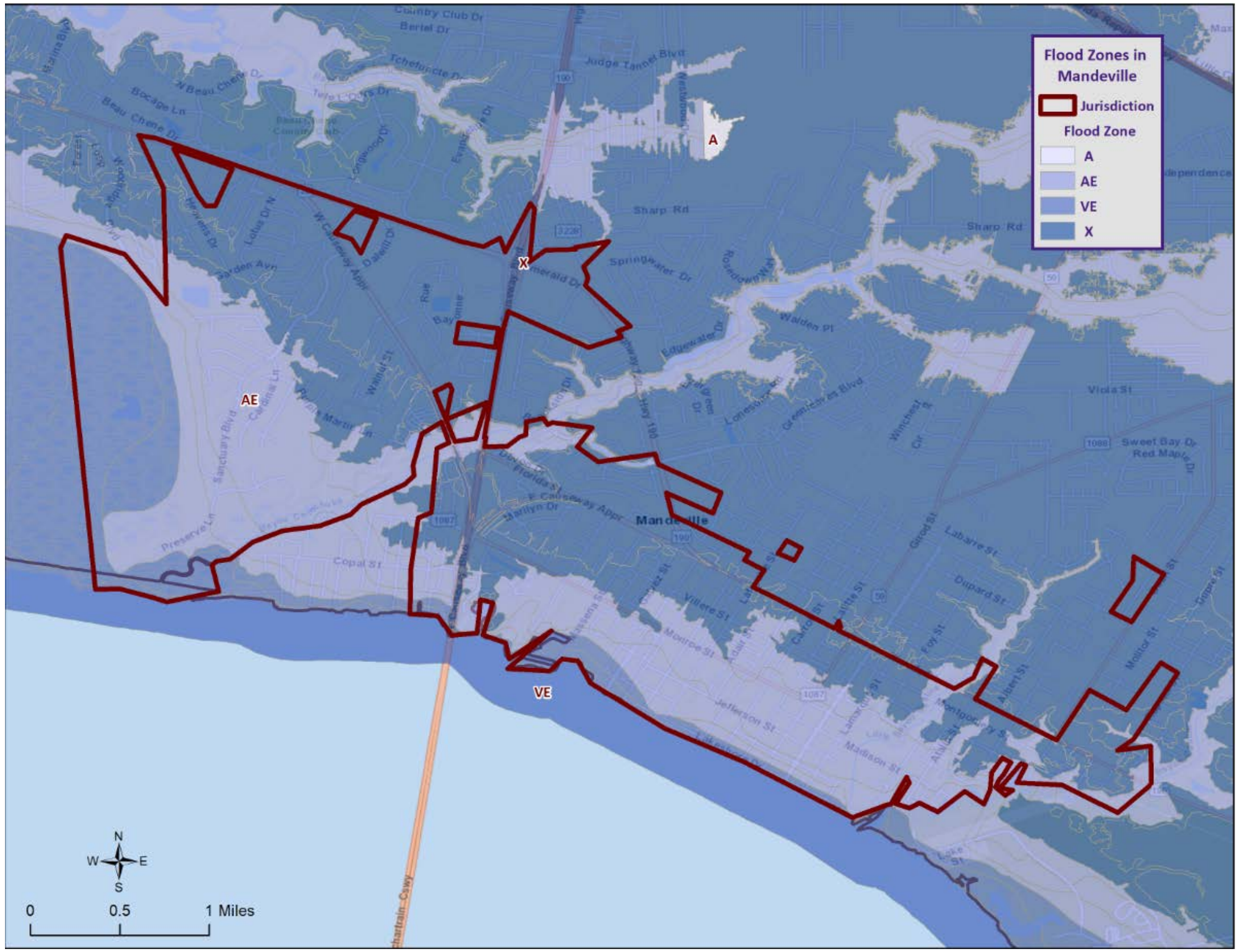


Madisonville

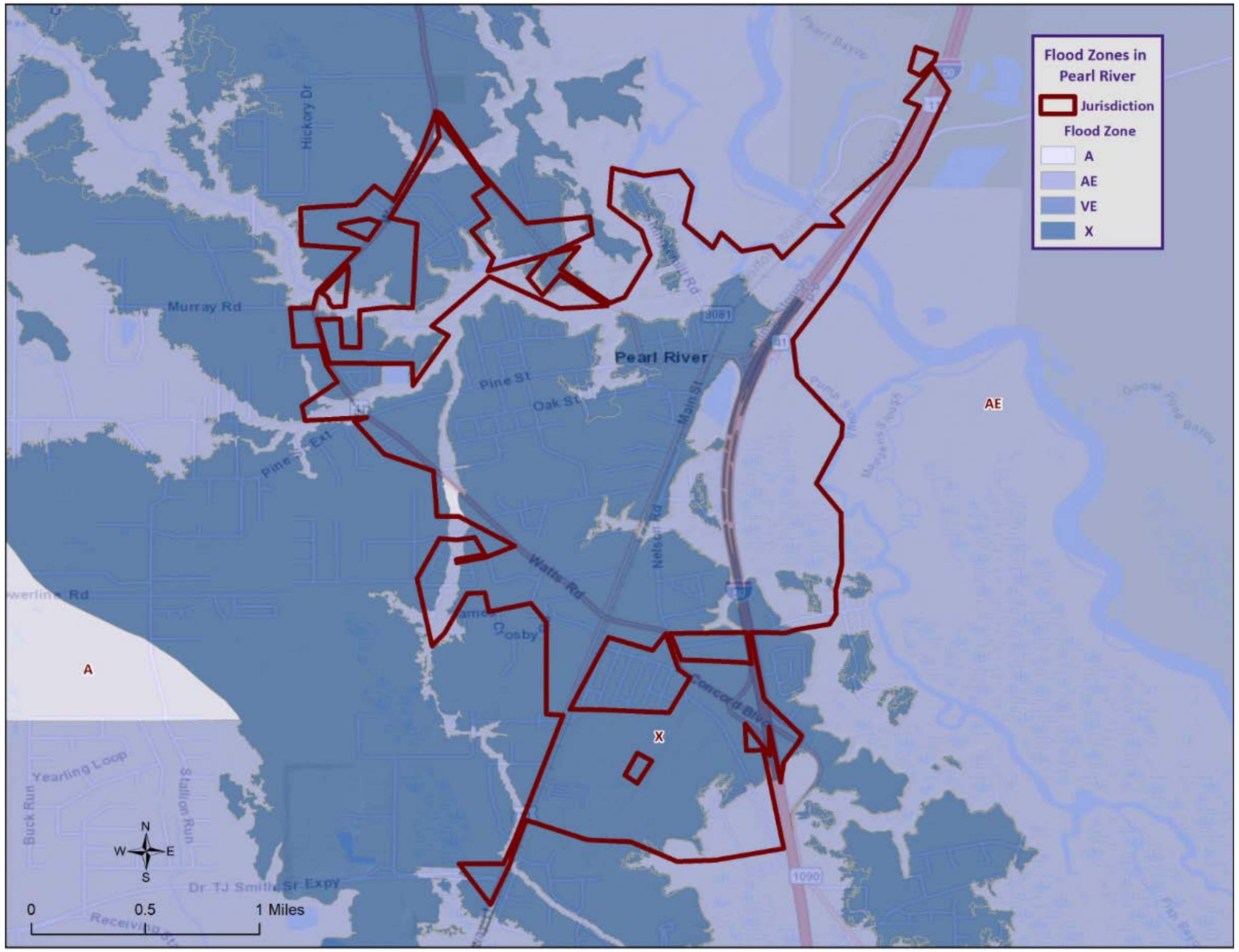


Flood Maps

Mandeville

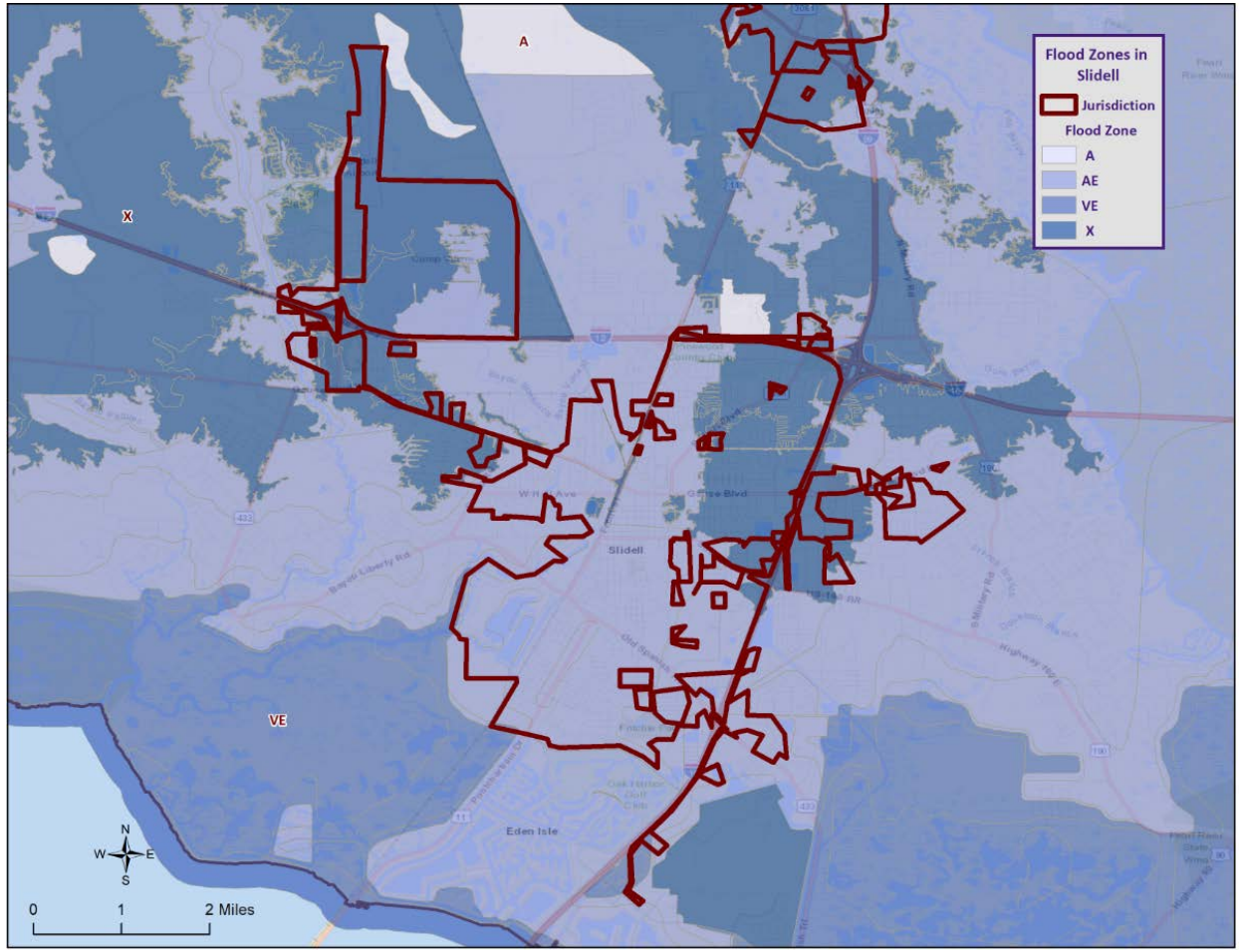


Pearl River

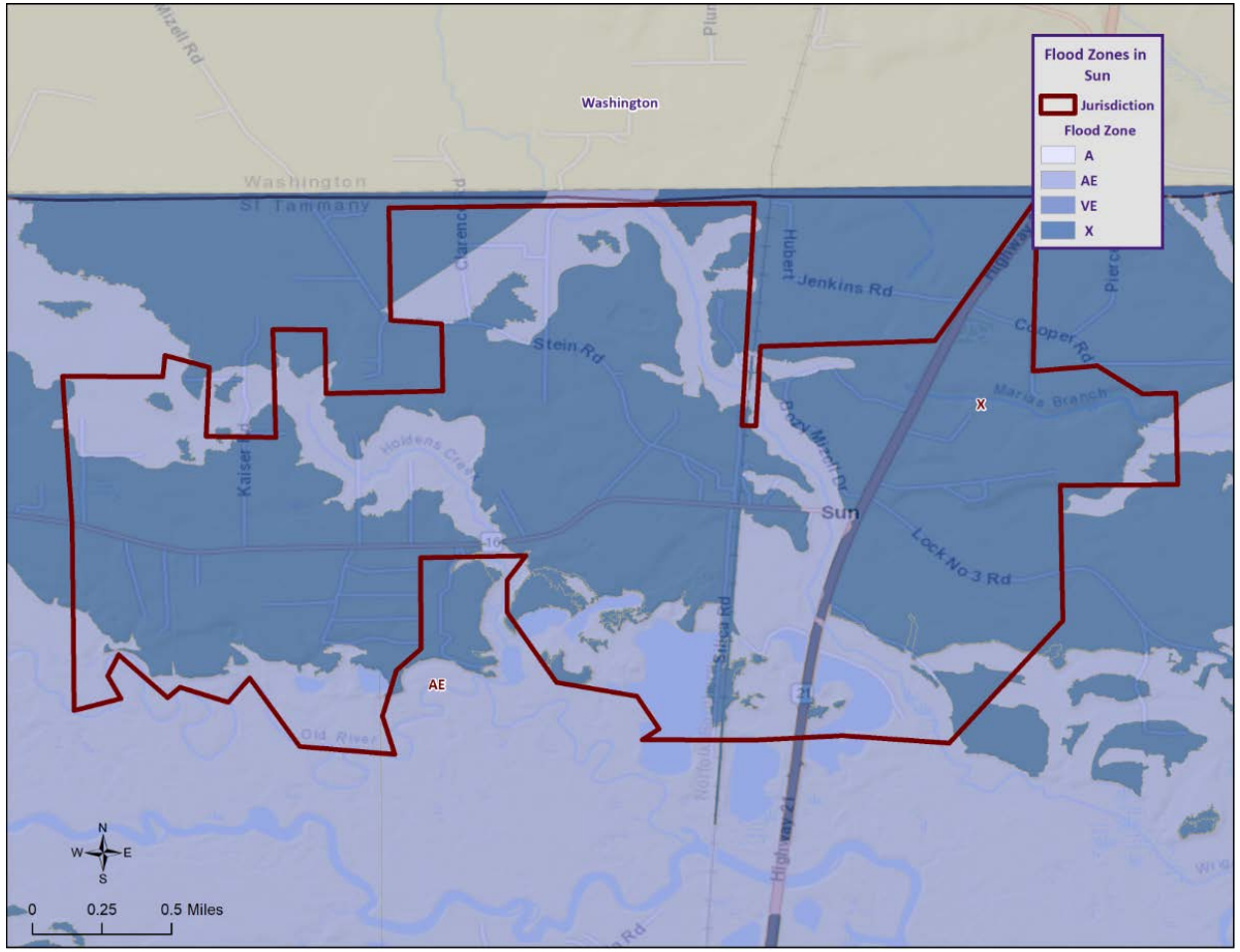


Flood Maps

Slidell



Sun

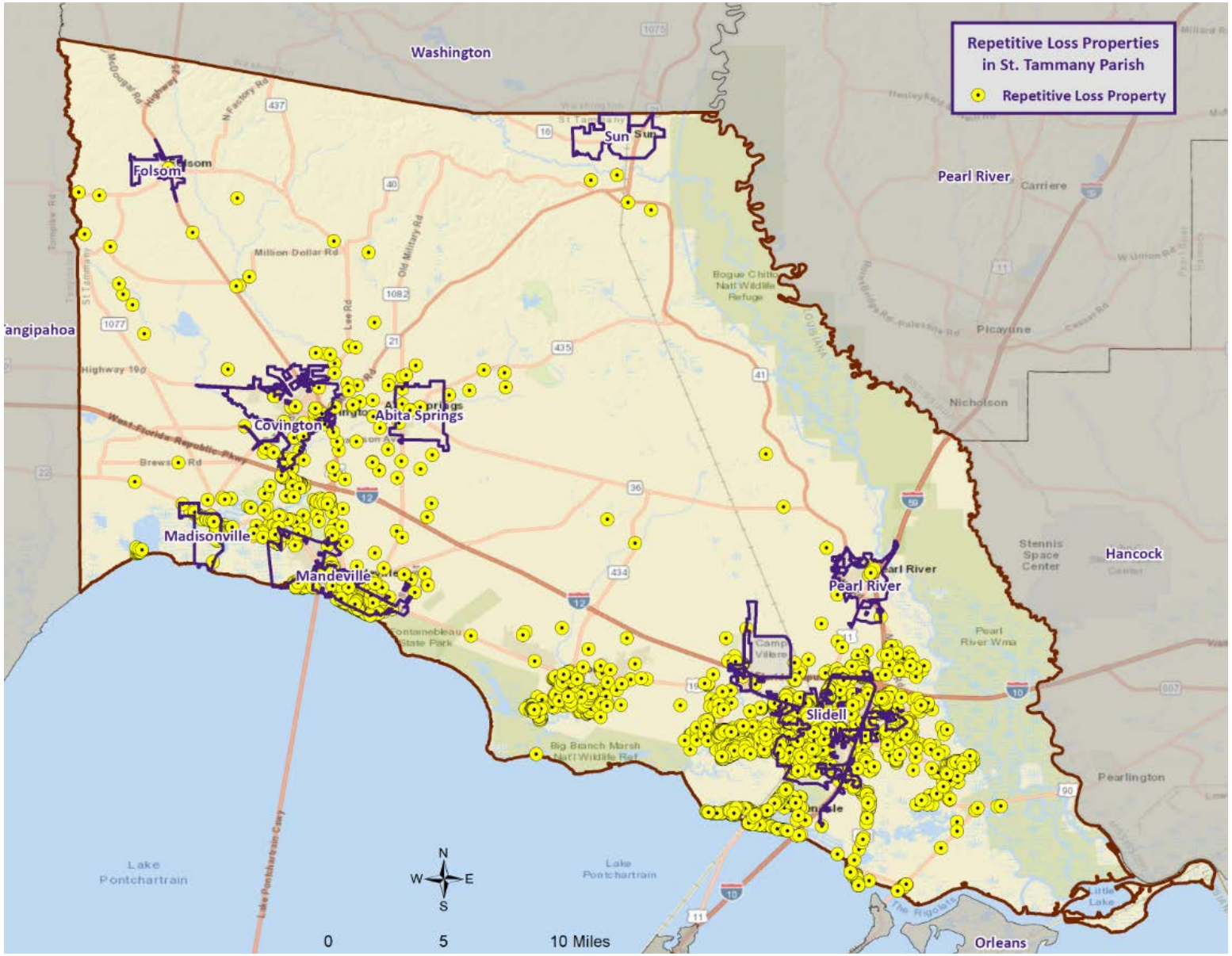


Repetitive Flooding

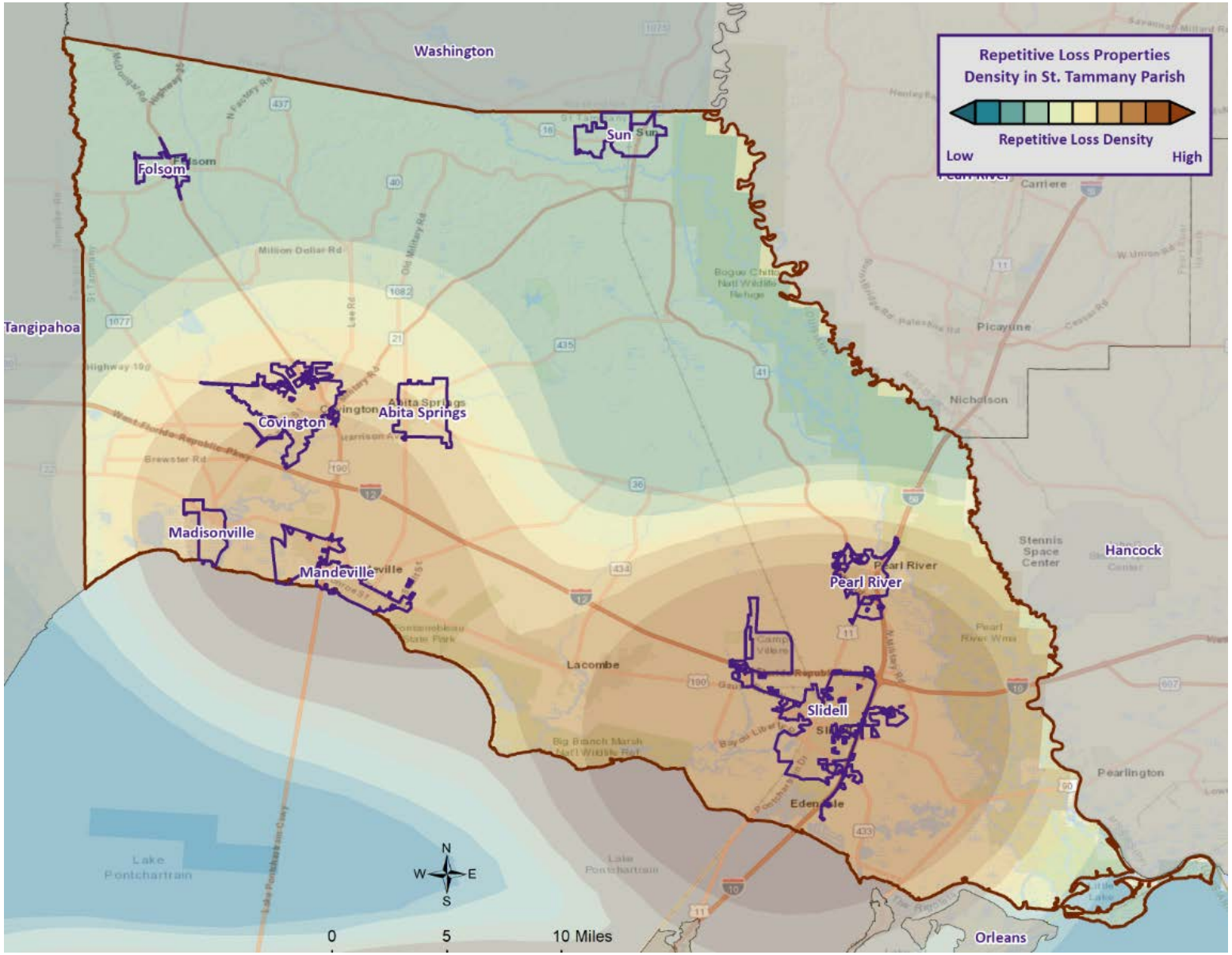
- Some areas flood more often than other properties, even more than those in the mapped 100-year floodplain.
- FEMA defines a “repetitive loss” property as one which has received two flood insurance claim payments for at least $1,000 over any 10-year period since 1978.
- These properties are important to the National Flood Insurance Program and the Community Rating System because even though they comprise 1% of the policy base, they account for 30% of the country’s flood insurance claim payments.

LSU | Stephenson Disaster Management Institute

Repetitive Loss Properties



Repetitive Loss Density Map



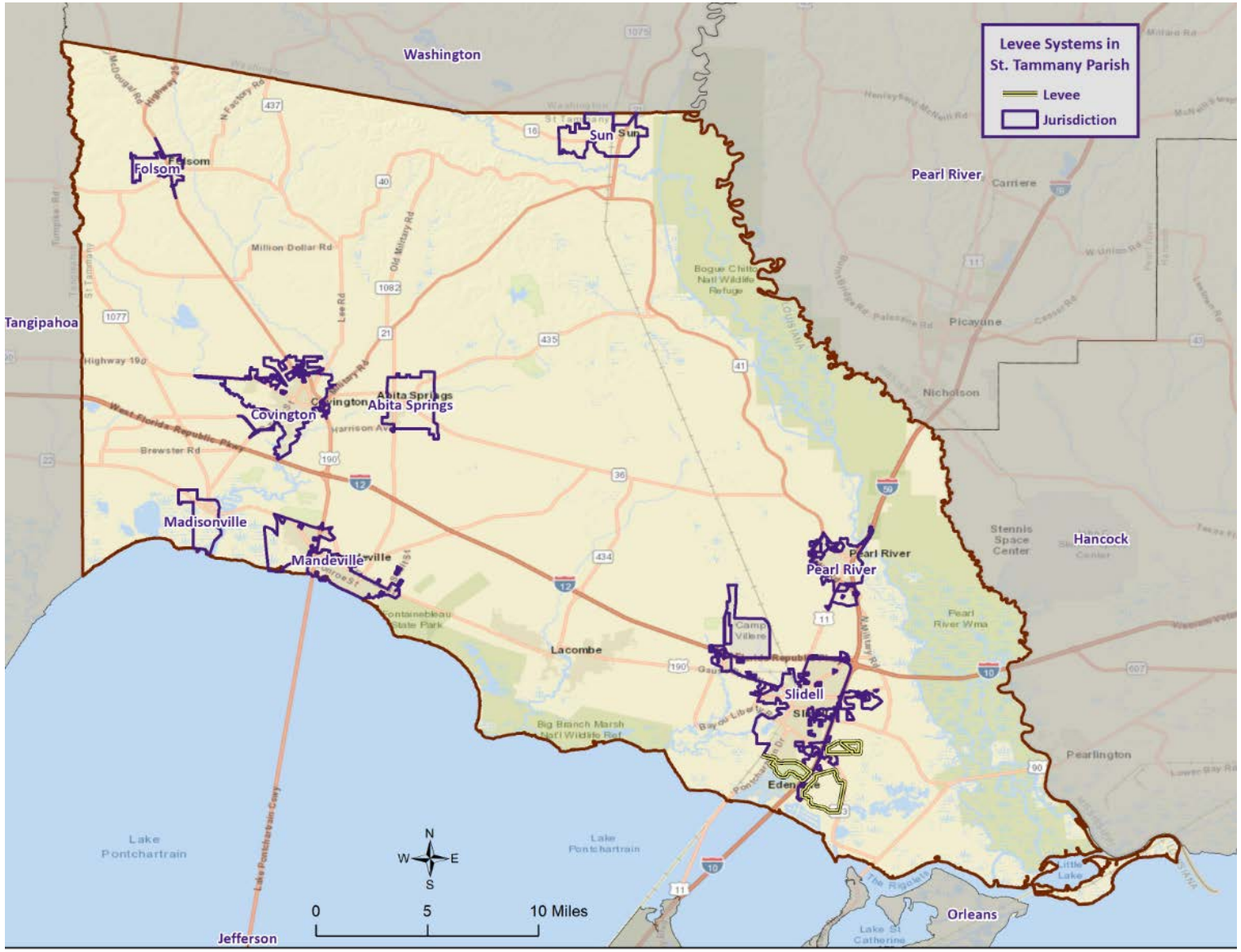
Levee Failure

- Levees are flood control barriers constructed of earth, concrete, or other materials that protect significant areas of residential, commercial, or industrial development.
- Levee failure involves the overtopping, breach, or collapse of the levee.

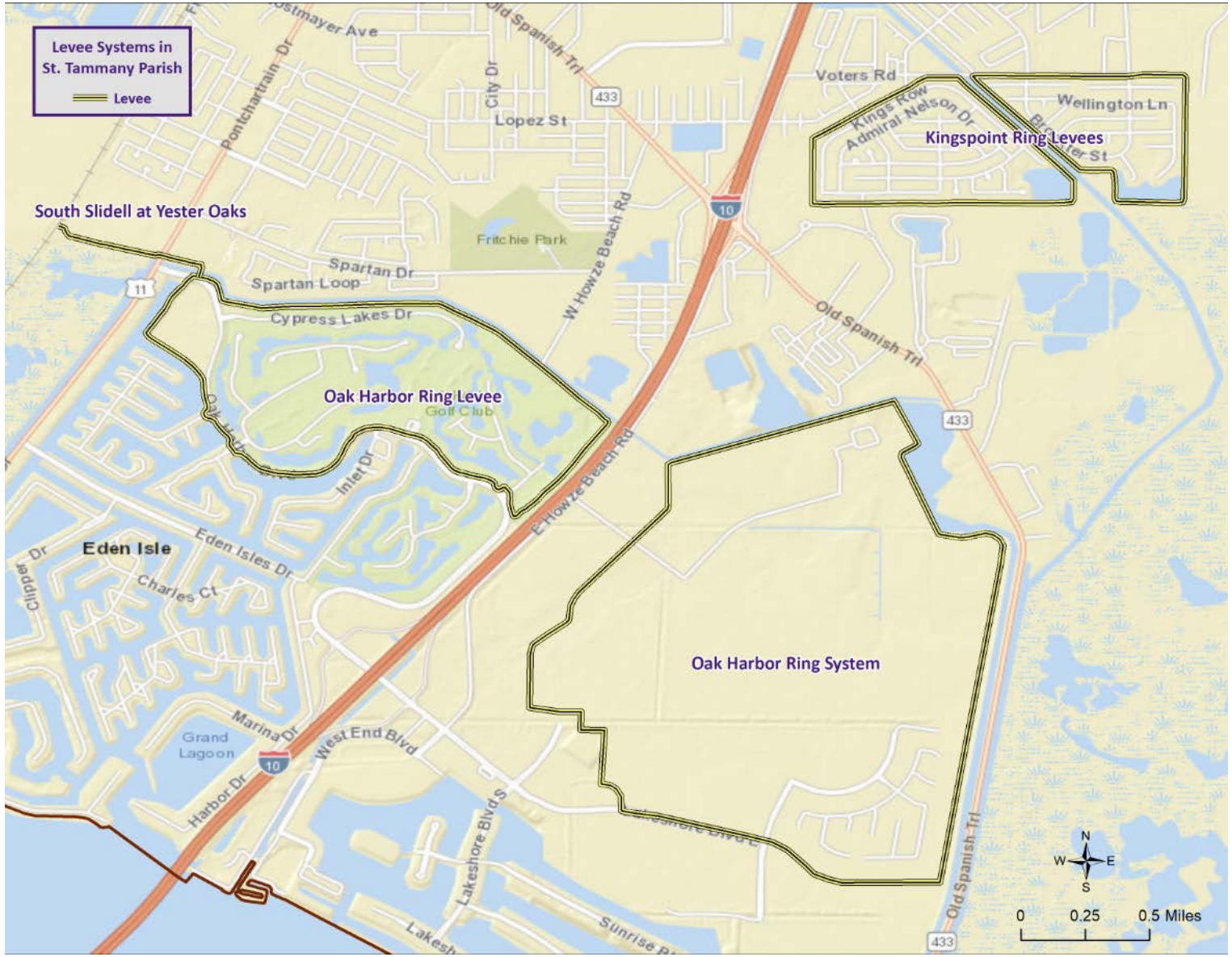
ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

Levee Locations



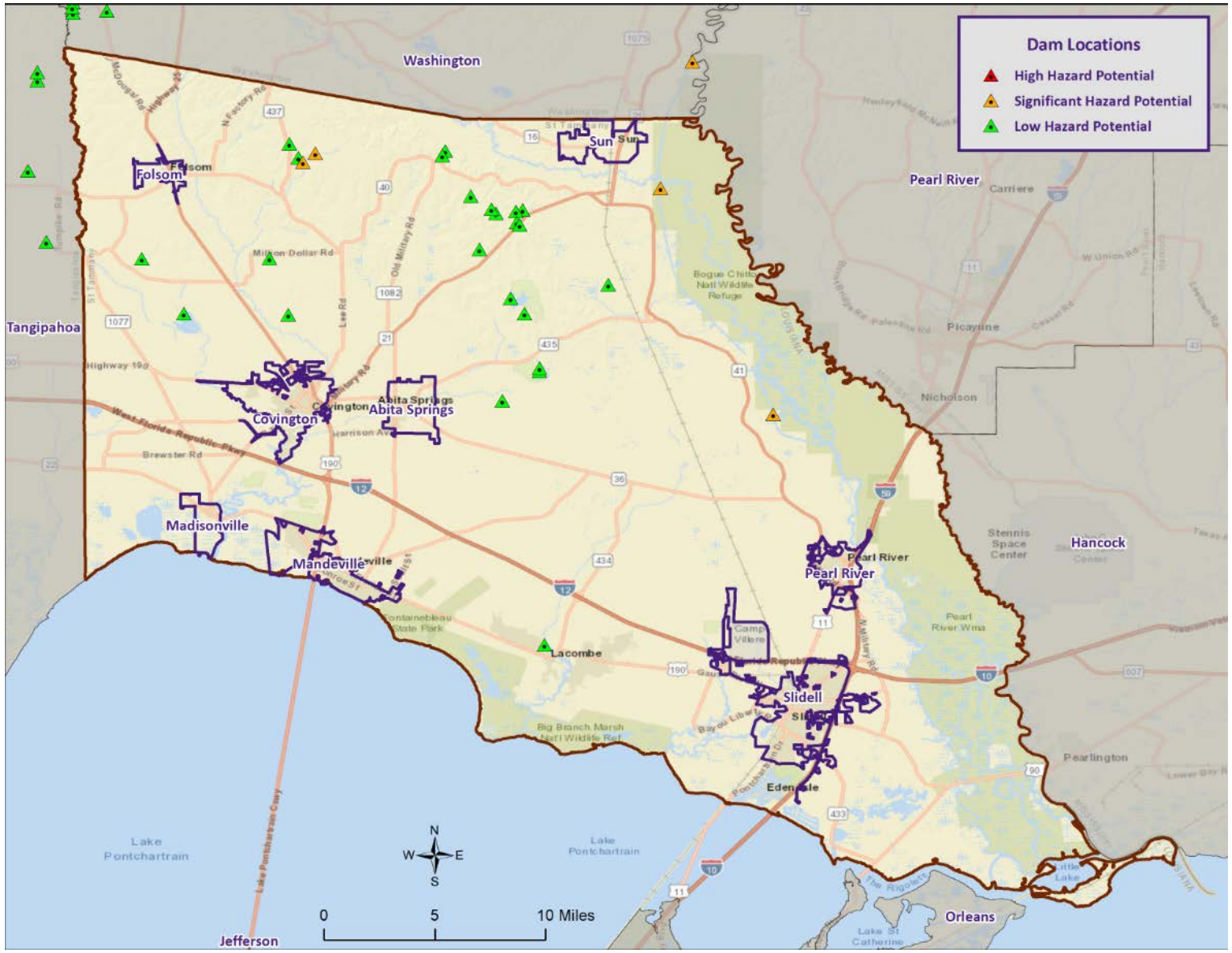
Levee Locations



Dam Failure

- Dams are water storage, control, or diversion barriers that impound water upstream in reservoirs.
- Dams are a vital part of our nation's infrastructure, providing drinking water, flood protection, renewable hydroelectric power, navigation, irrigation, and recreation.

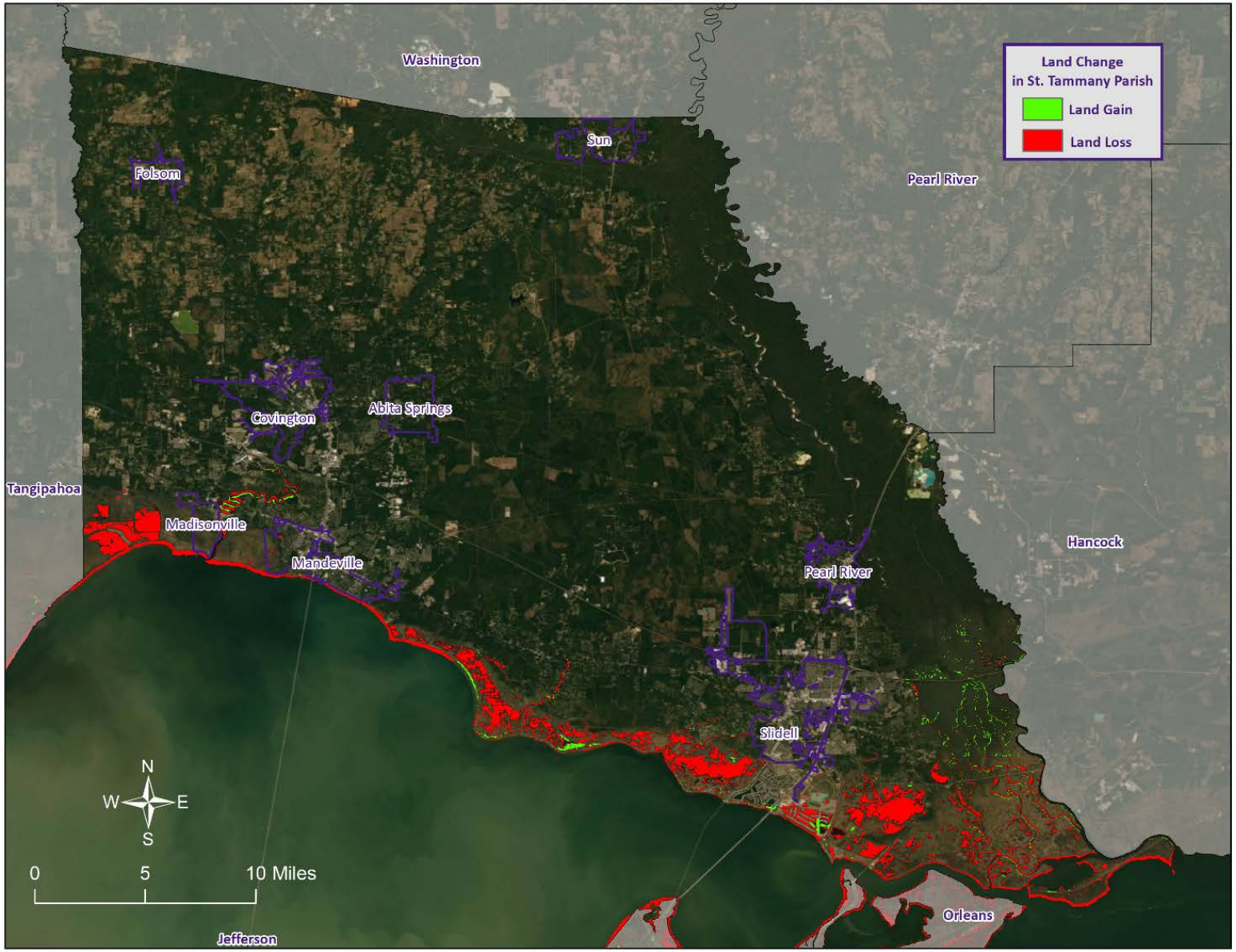
Dam Locations



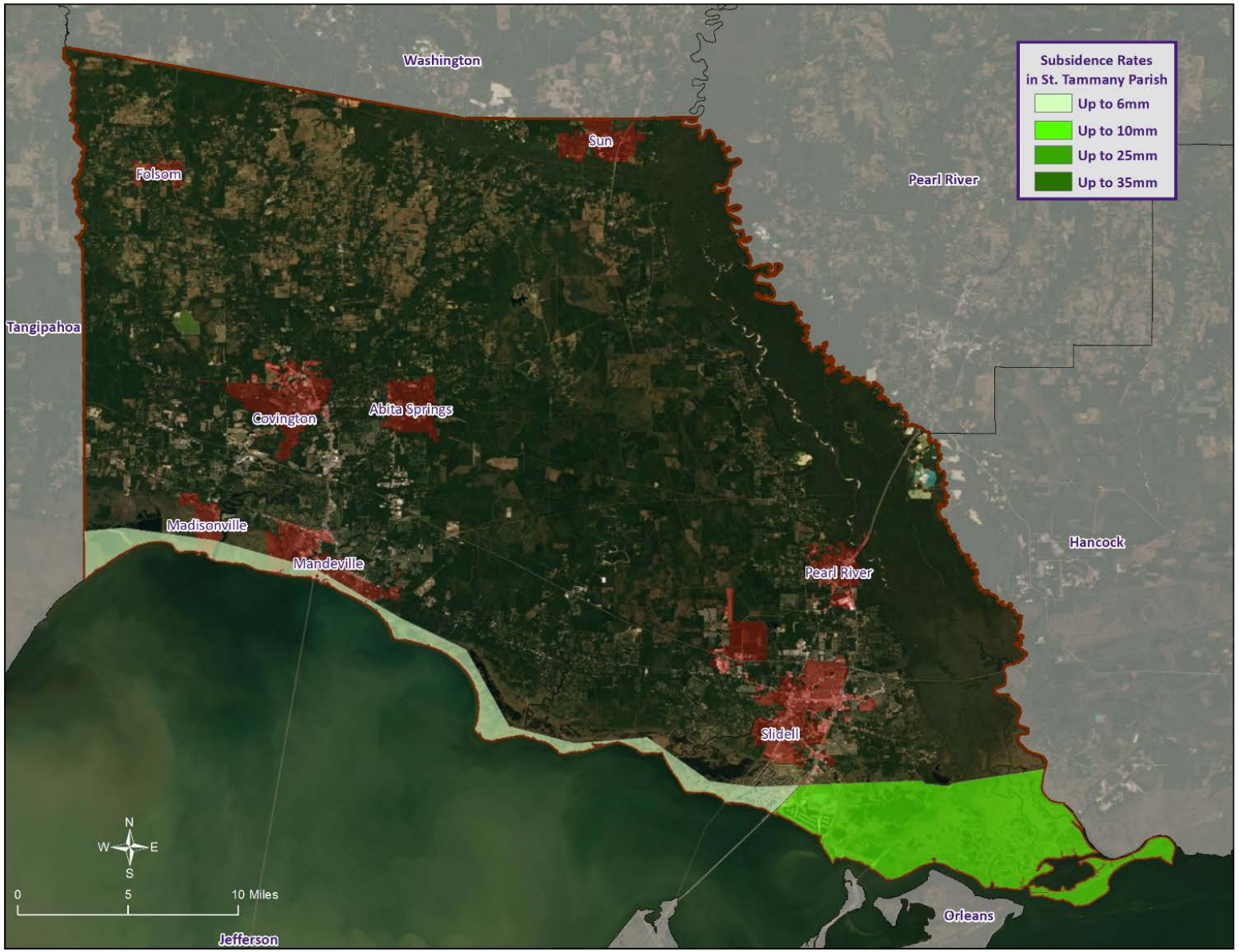
Coastal Hazards

- **Subsidence** is the gradual caving in or sinking of an area of land
  - Slow-acting process with impacts that can be readily seen in coastal parishes over the course of decades
  - Lowers elevations in coastal Louisiana, accelerates the effects of saltwater intrusion
  - Causes structures to become more vulnerable to flooding by lowering elevations
- **Saltwater intrusion/Coastal Land Loss** is the movement of salty water into freshwater aquifers or is the encroachment of saline water into freshwater estuaries
  - One of the major causes of subsidence and marshland loss
  - Causes the loss of fresh and intermediate vegetation, which results in rapid erosion of marsh soils and the ultimate conversion of the area to open water

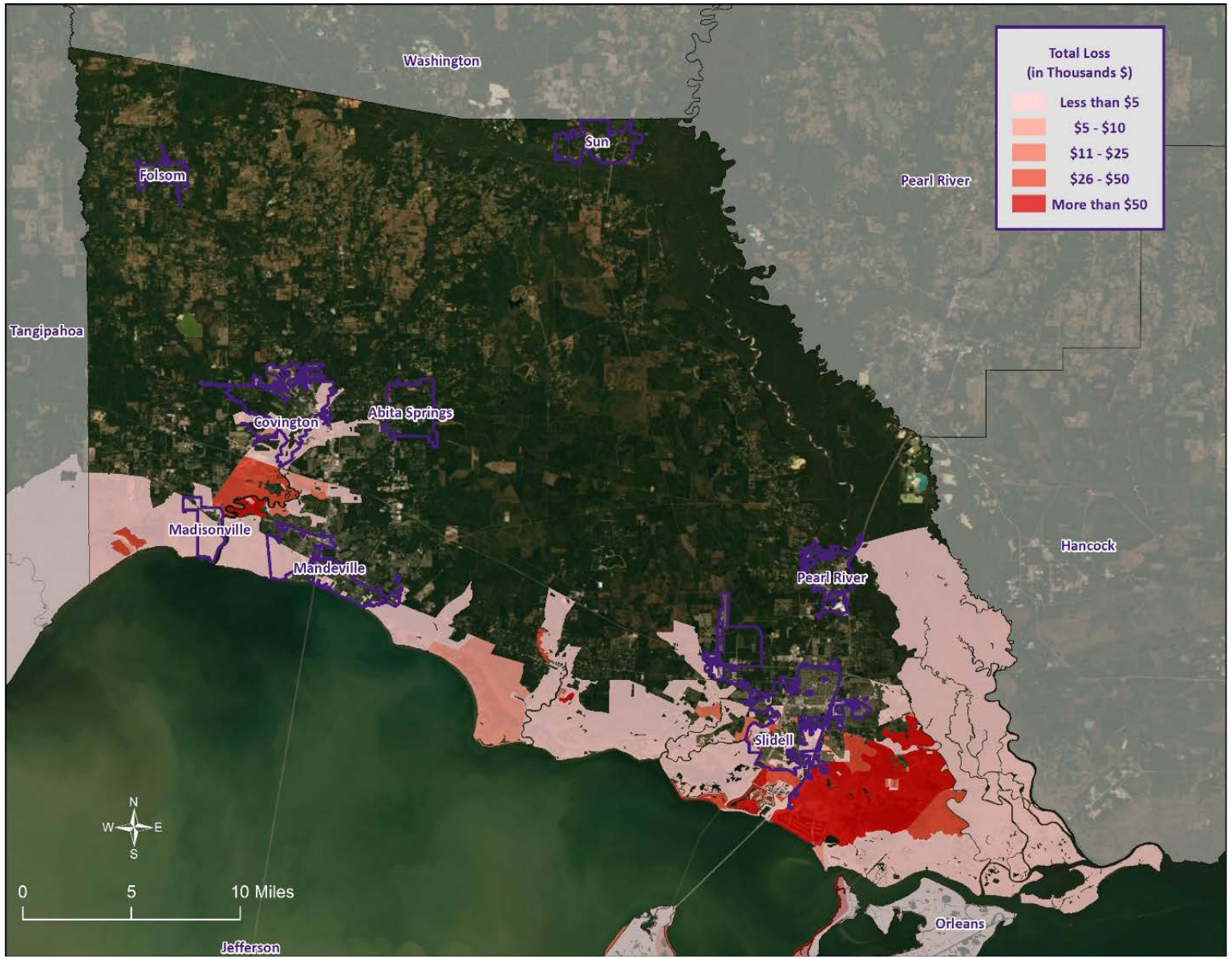
Land Gain & Loss



Subsidence Rates



Subsidence Future Total Loss



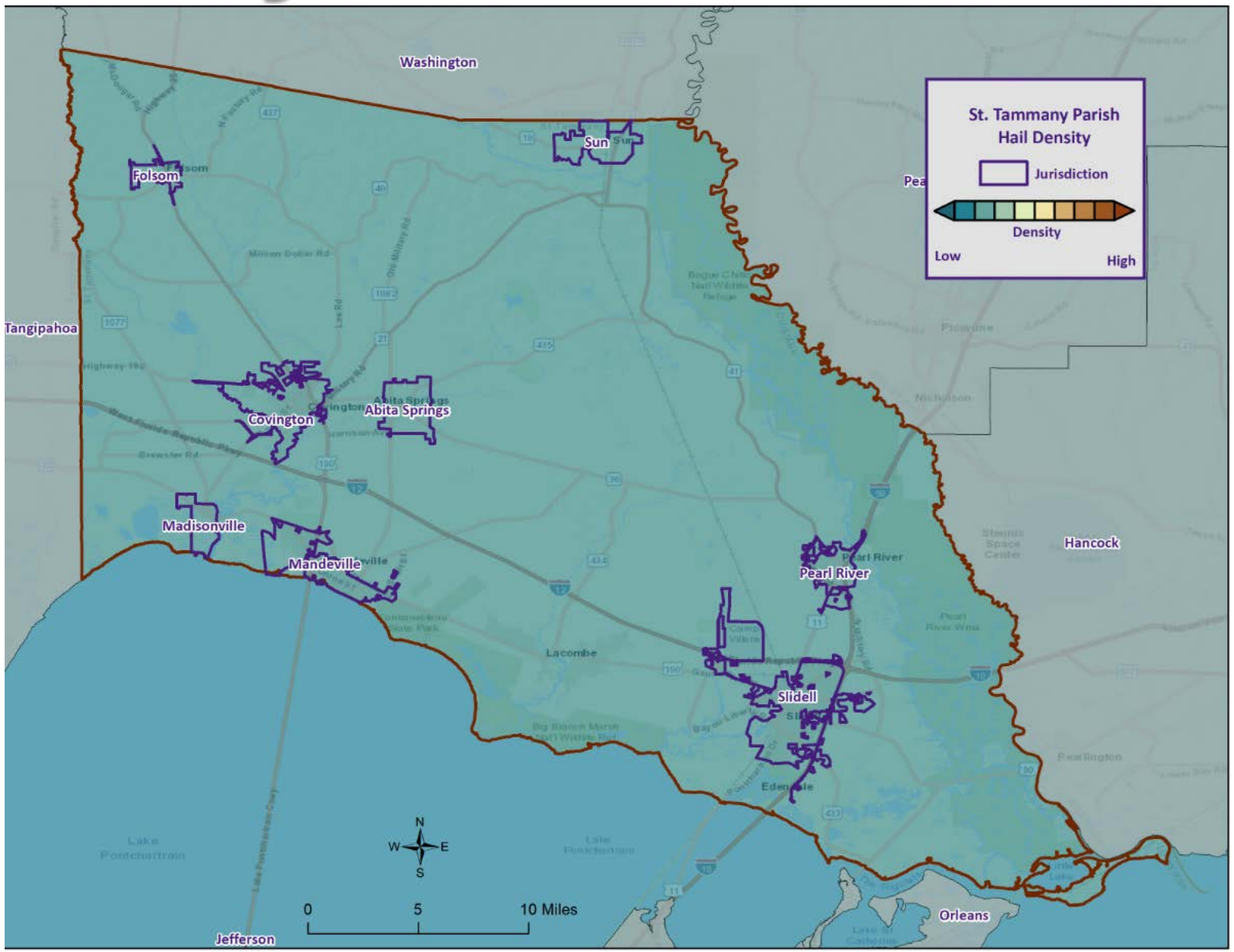
Thunderstorms

- A **thunderstorm**, also known as an **electrical storm**, a **lightning storm**, or a **thundershower**, is a type of storm characterized by the presence of lightning and its acoustic effect on the Earth's atmosphere known as thunder.

- They are usually accompanied by strong winds, heavy rain, and sometimes snow, sleet, or hail.

- Thunderstorms may line up in a series or rainband, known as a squall line. Strong or severe thunderstorms may rotate, known as supercells. While most thunderstorms move with the mean wind flow through the layer of the troposphere that they occupy, vertical wind sheer causes a deviation in their course at a right angle to the wind shear direction.

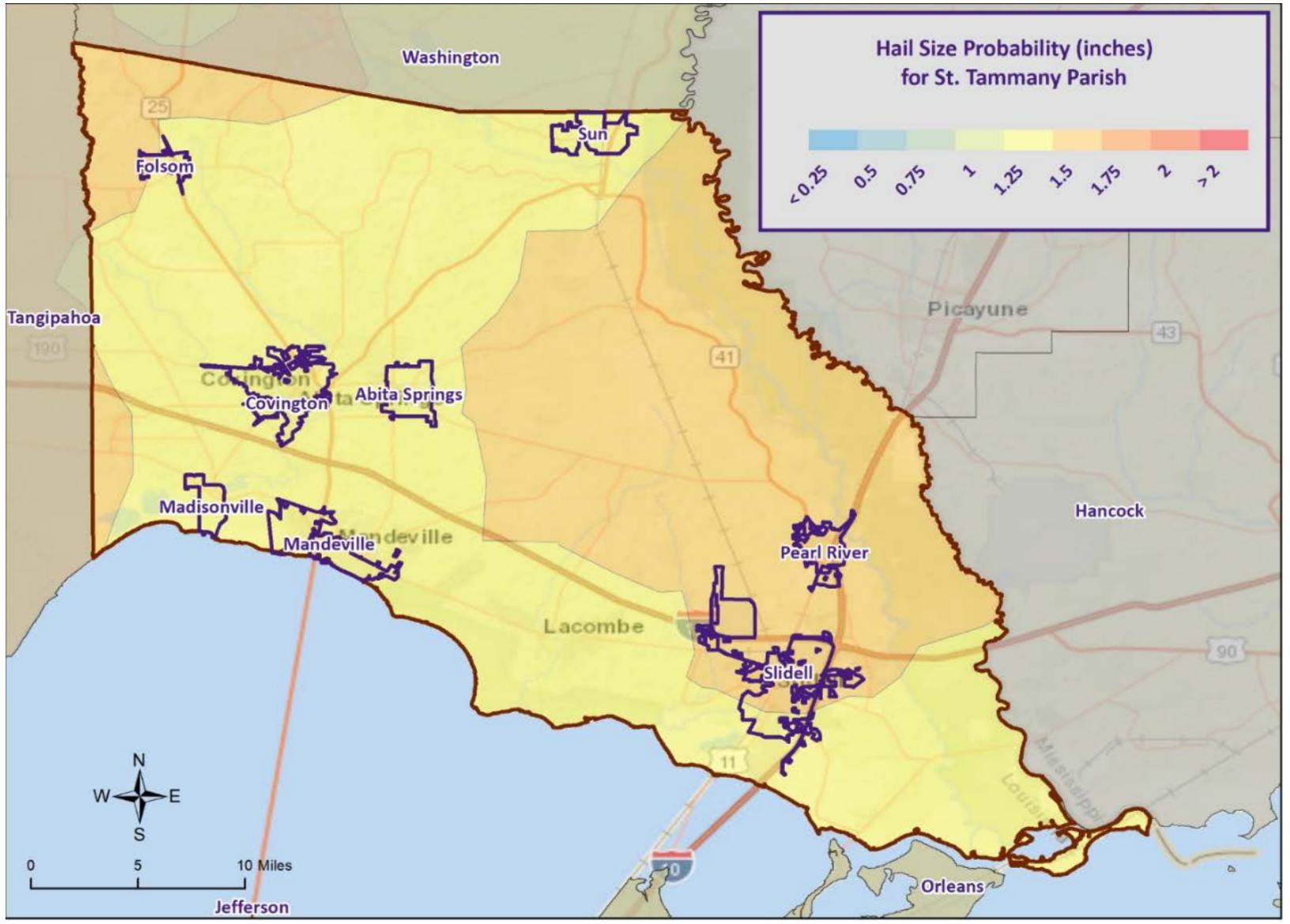
Density of Prior Hailstorms



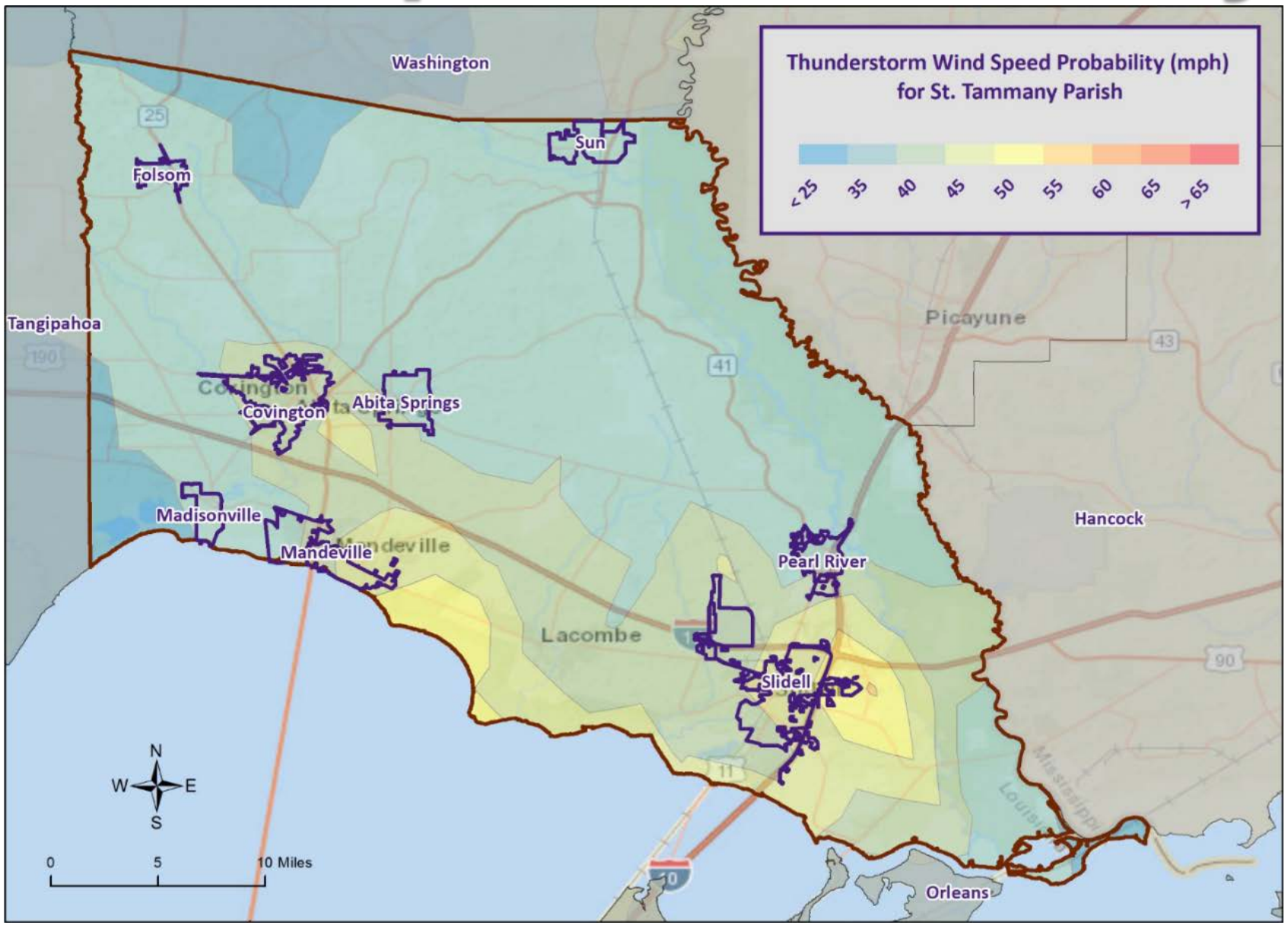
ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

Hail Size Probability



Wind Speed Probability



Tornadoes

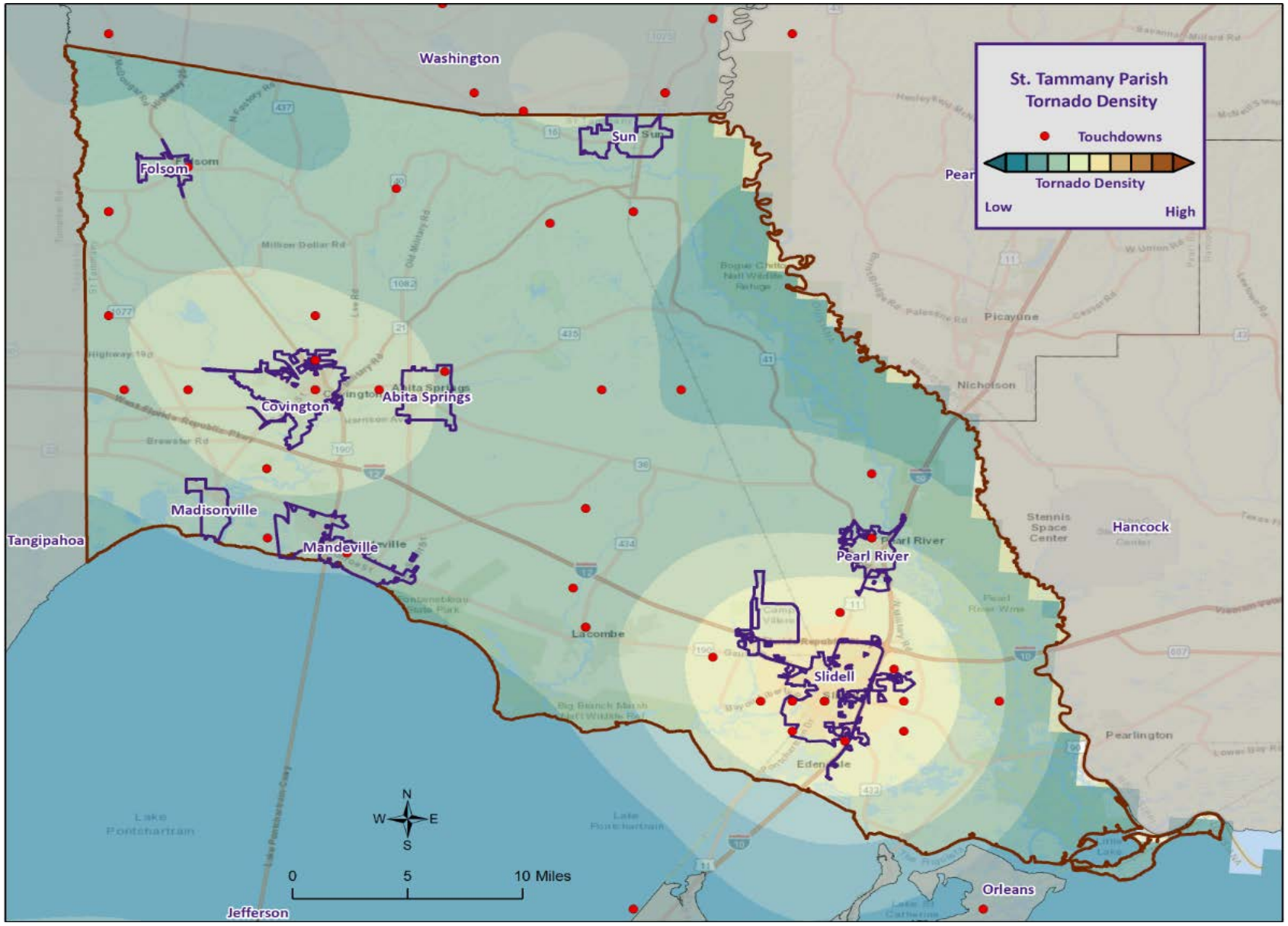
- Tornadoes (also called twisters and cyclones) are rapidly rotating funnels of wind extending between storm clouds and the ground.
- Tornadoes are the most severe storms for their size, and 70% of the world's reported tornadoes occur within the continental United States.

ORIGINAL FUJITA SCALE		ENHANCED FUJITA SCALE	
F5	261-318 mph	EF5	+200 mph
F4	207-260 mph	EF4	166-200 mph
F3	158-206 mph	EF3	136-165 mph
F2	113-157 mph	EF2	111-135 mph
F1	73-112 mph	EF1	86-110 mph
F0	<73 mph	EF0	65-85 mph

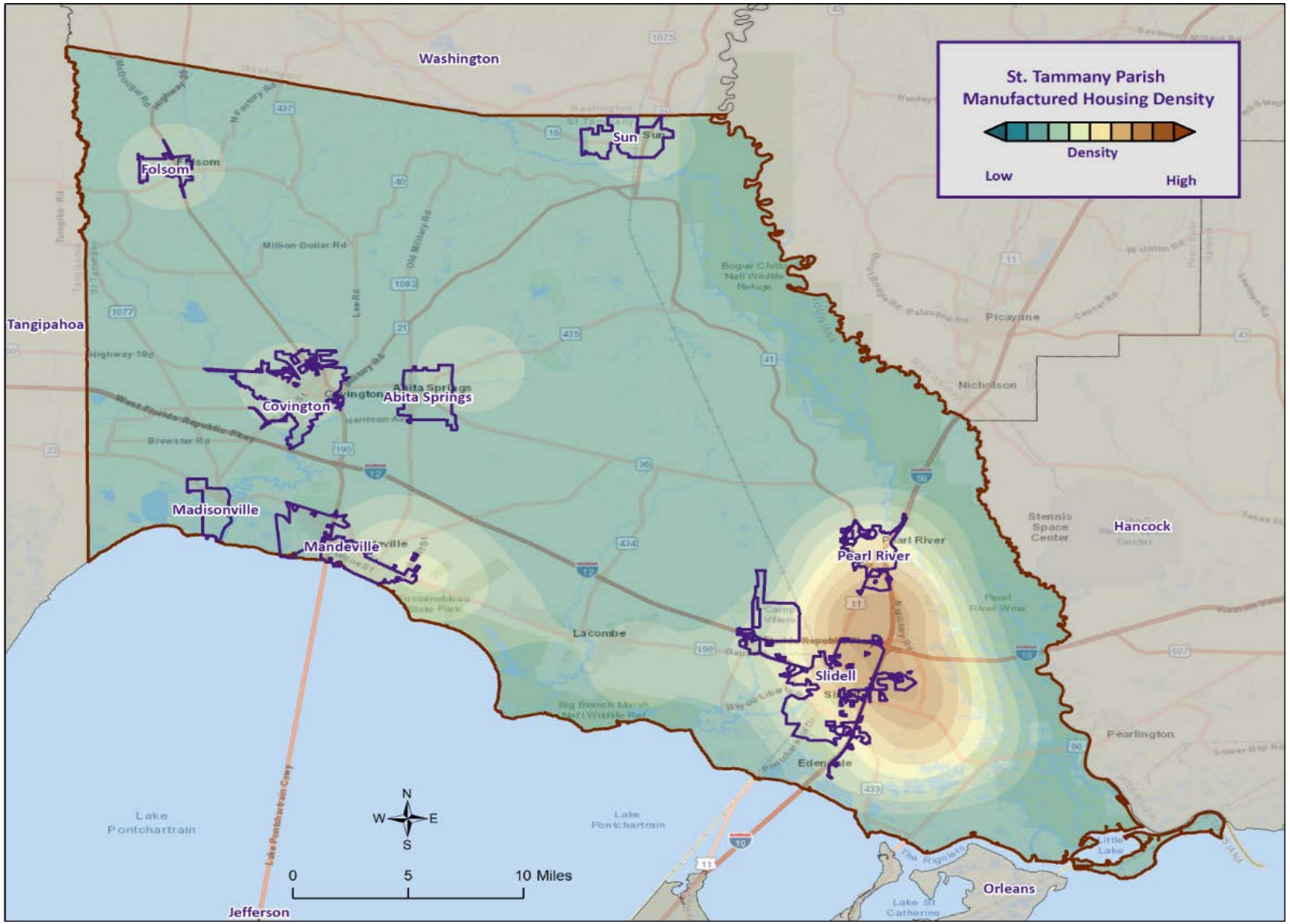
ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

Tornadoes


St. Tammany Parish
Tornado Density
Touchdowns
Tornado Density
Low
High
Washington
Folsom
Sun
Covington
Abita Springs
Madisonville
Mandeville
Tangipahoa
Lacombe
Pearl River
Slidell
Picayune
Nicholson
Hancock
Stennis Space Center
Pearlington
Orleans
Jefferson
N
W
E
S
0
5
10 Miles

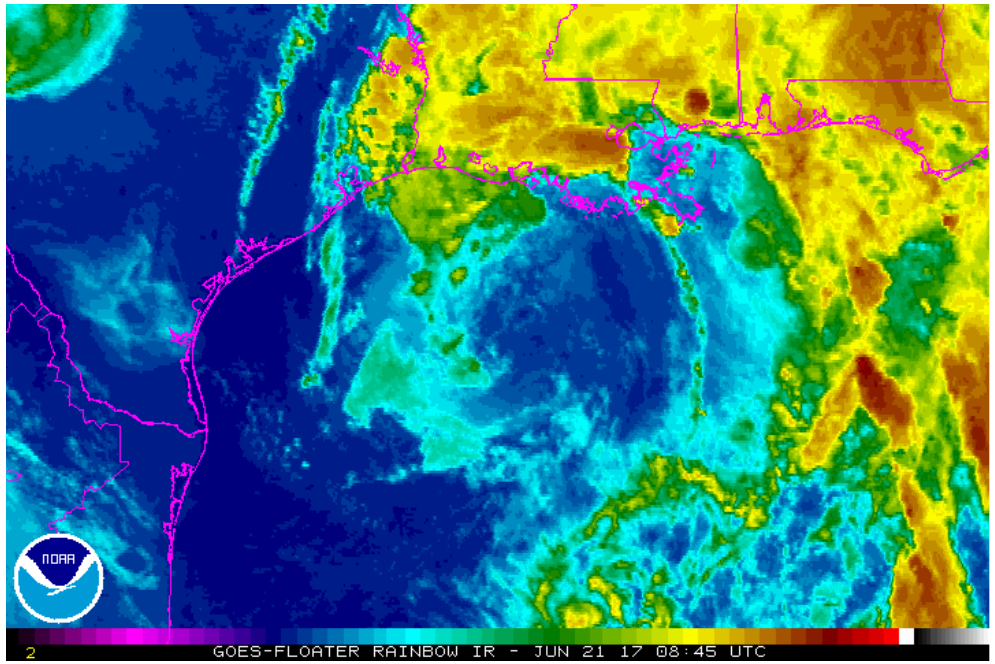
Manufactured Home Density



Tropical Cyclones

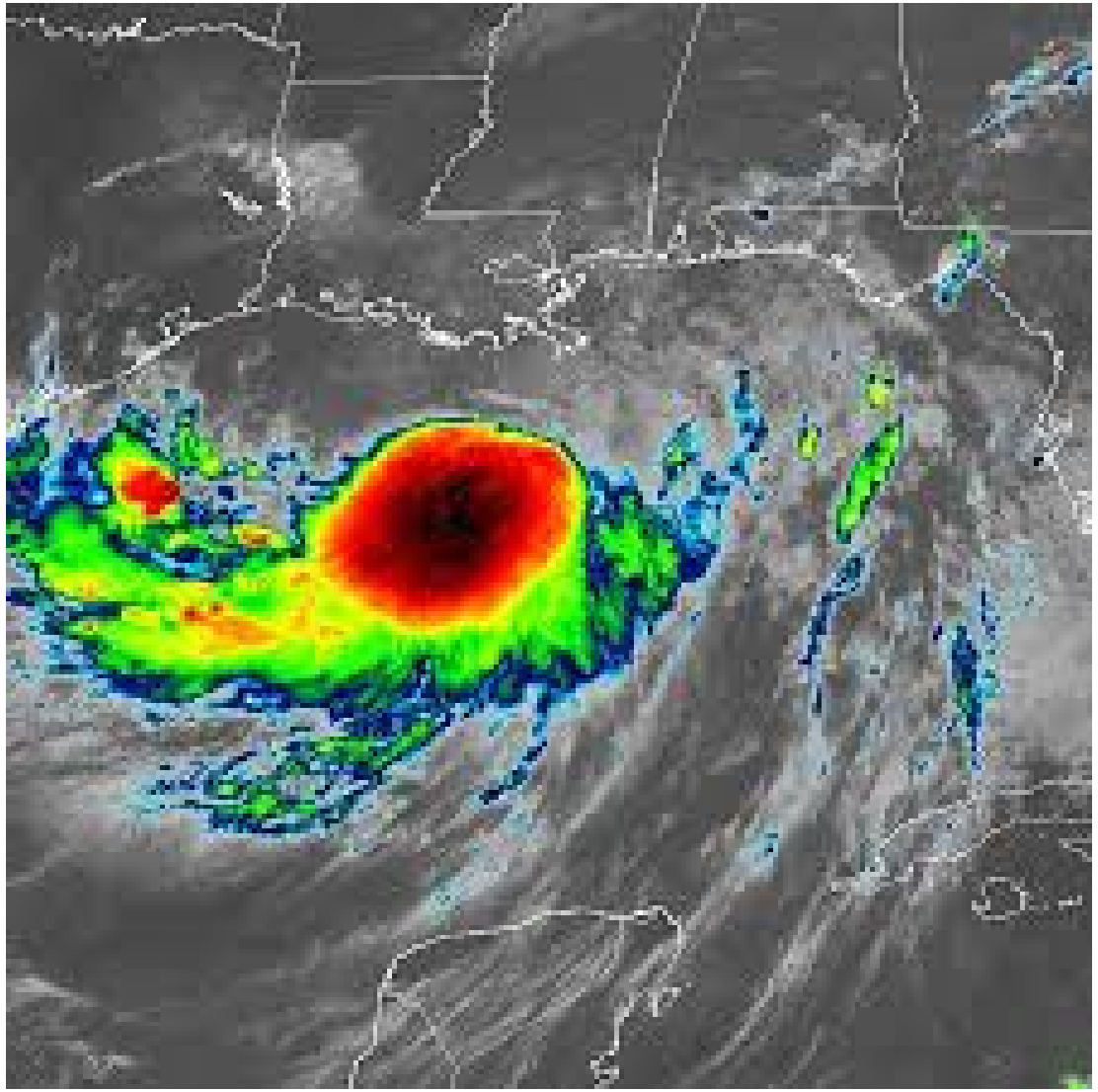
- Tropical cyclones are defined spinning, low-pressure air masses that draw surface air into their centers and attain strength ranging from weak tropical waves to the most intense hurricanes

Saffir-Simpson Hurricane Wind Scale		
	Sustained Wind Speed	**Effects**
Category 1	74-95 mph (119-153 km/hr)	Very dangerous winds will produce some damage. Low-lying coastal roads flooded, minor pier damage
Category 2	96-110 mph (154-177 km/hr)	Extremely dangerous winds will cause extensive damage. Major damage to exposed mobile homes, evacuation of some shoreline residents
Category 3	111-130 mph (178-209 km/hr)	Devastating damage will occur. Some structural damage to small buildings; serious flooding at coast and many smaller structures near coast destroyed
Category 4	131-155 mph (210-249 km/hr)	Catastrophic damage will occur. High risk of injury or death to people, livestock, and pets due to flying and falling debris. Long-term water shortages will increase human suffering. Most of the area will be uninhabitable for weeks or months.
Category 5	> 155 mph (249 km/hr)	Catastrophic damage will occur. People, livestock, and pets are at very high risk of injury or death from flying or falling debris. A high percentage of frame homes will be destroyed. Long-term power outages and water shortages will render area uninhabitable for weeks or months.

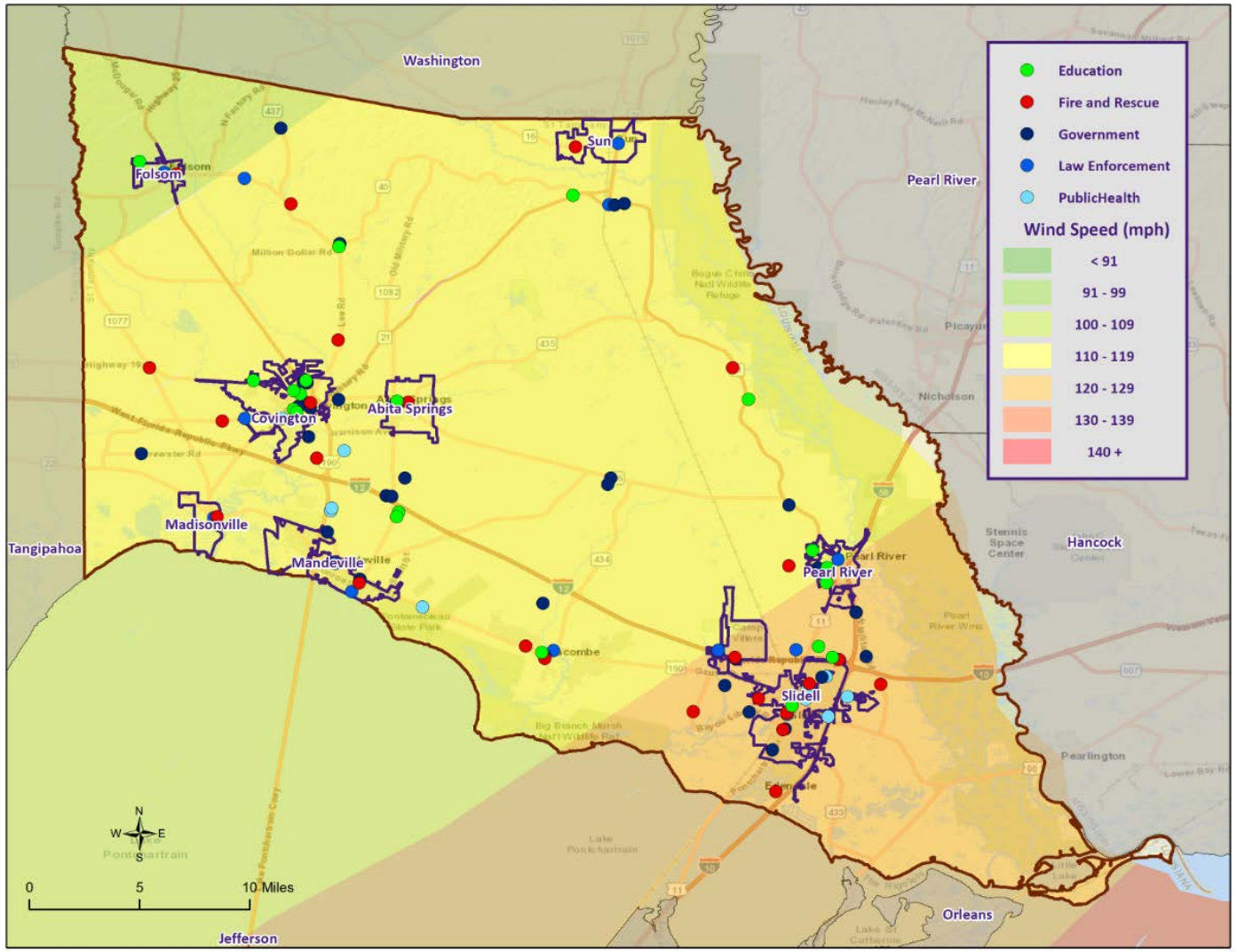


LSU | Stephenson Disaster Management Institute

Tropical Storm Barry



Wind Speed Impacts on Critical Infrastructure

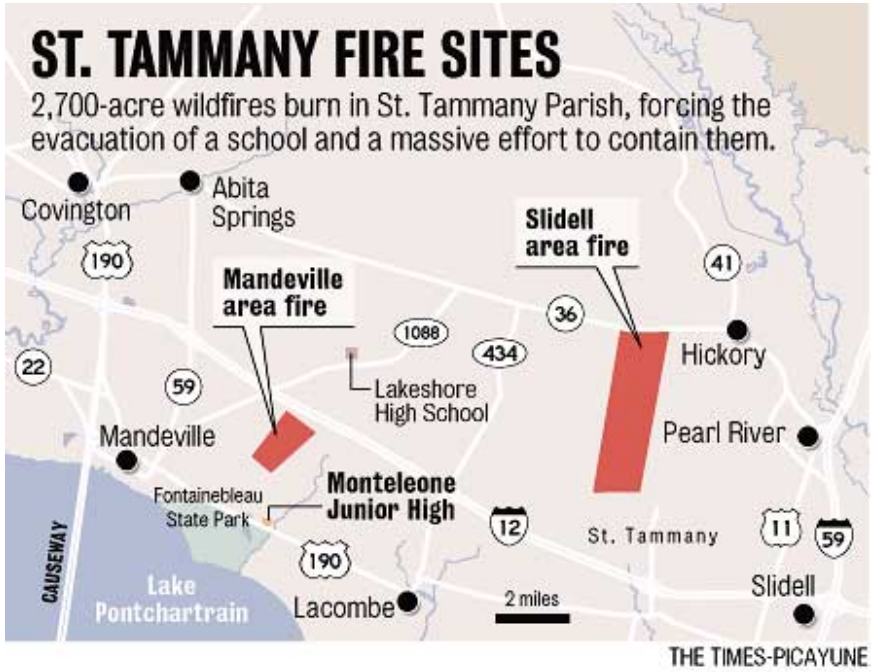


ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

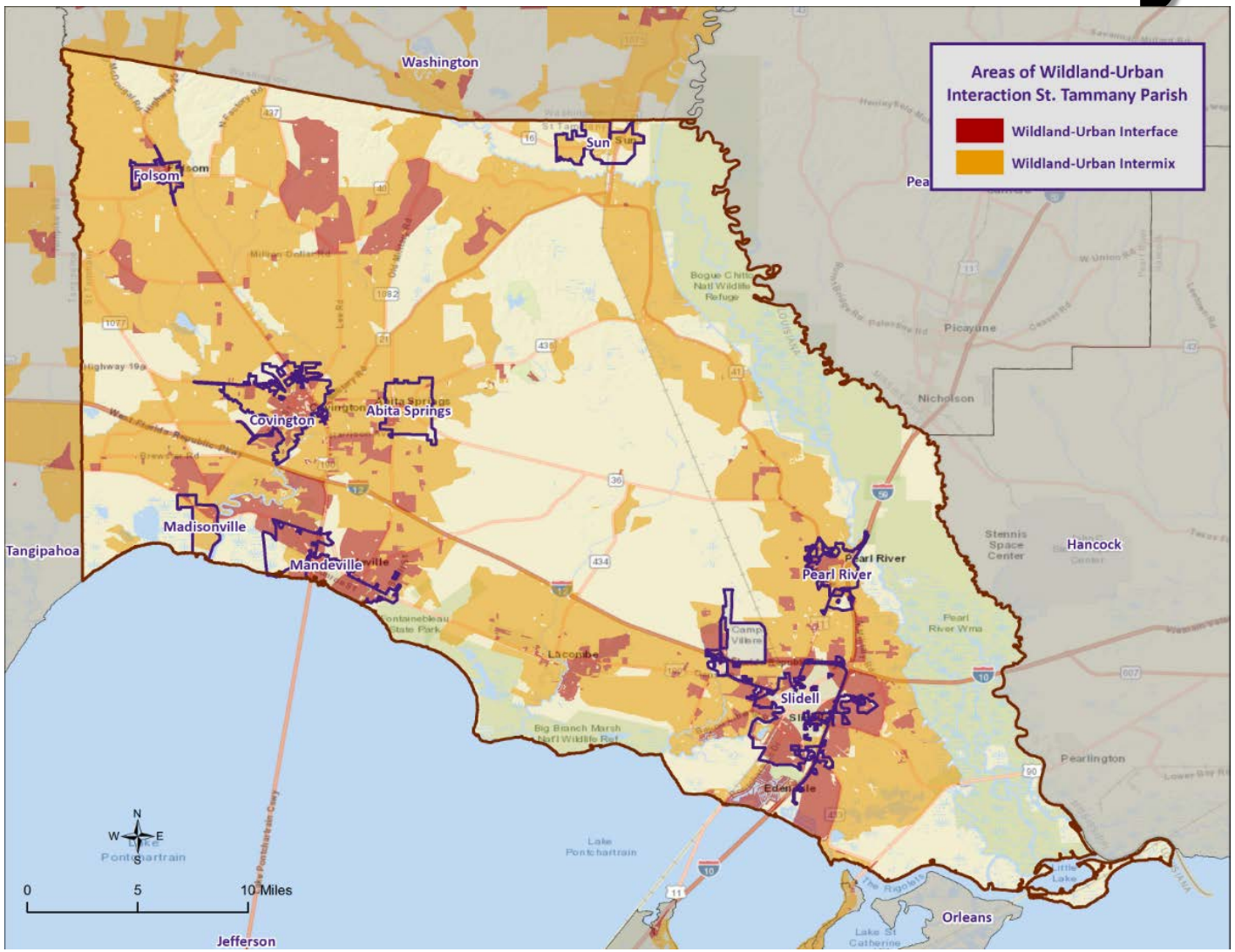
Wildfire

- A wildfire is combustion in a natural setting, marked by flames or intense heat.
- Most frequently, wildfires are ignited by lightning or unintentionally by humans. Fires set purposefully (but lawfully) are referred to as controlled fires or burns
- The primary areas affected by wildfires are the forests. Sixty-five percent of St. Tammany Parish is covered in timber.
- While loss of timber is a problem, the real hazard is when wildfires threaten developed areas. As more development moves into and next to forested areas, the hazards to people and property increases.



Stephenson Disaster Management Institute

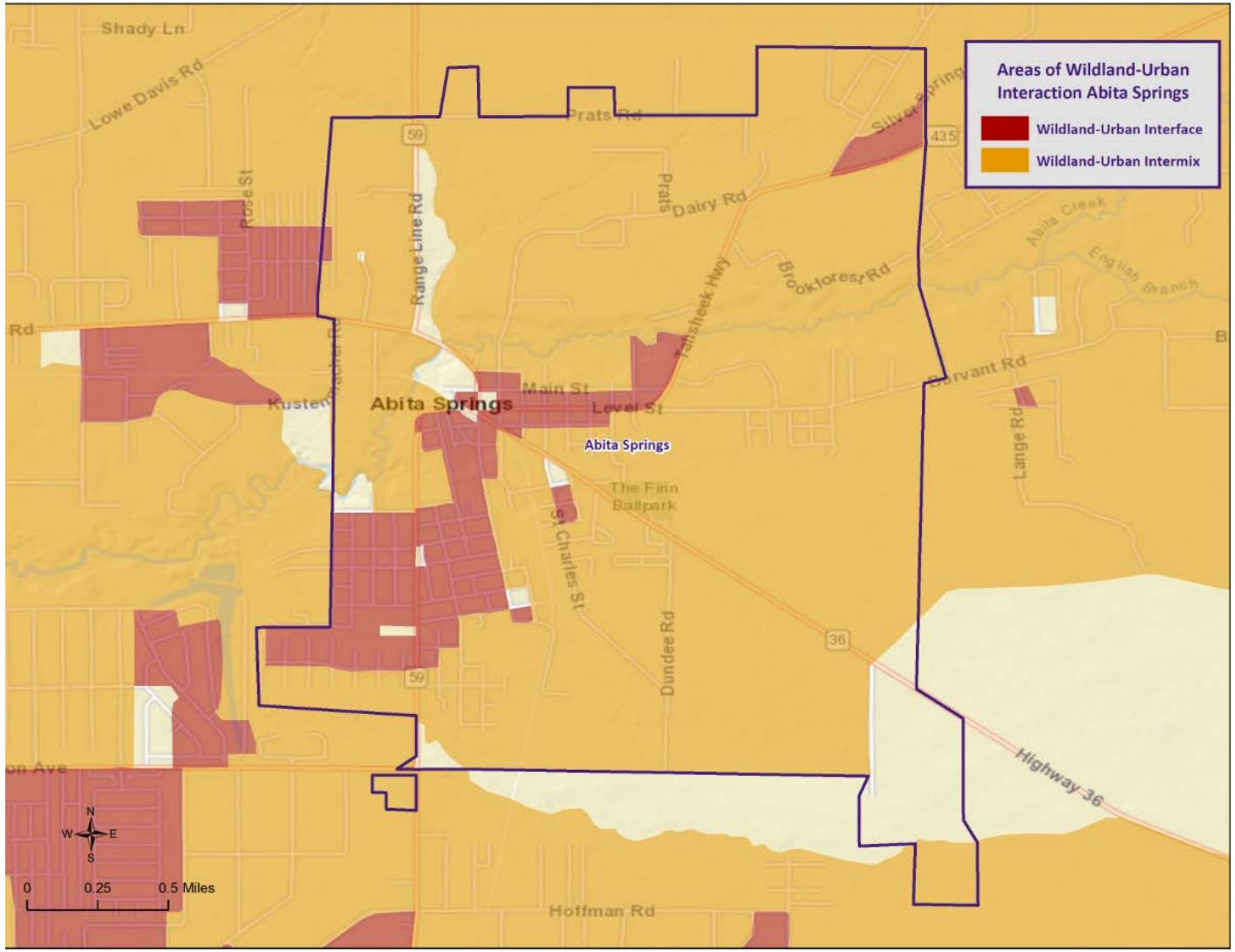
Wildfire Interaction
St Tammany Parish



ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

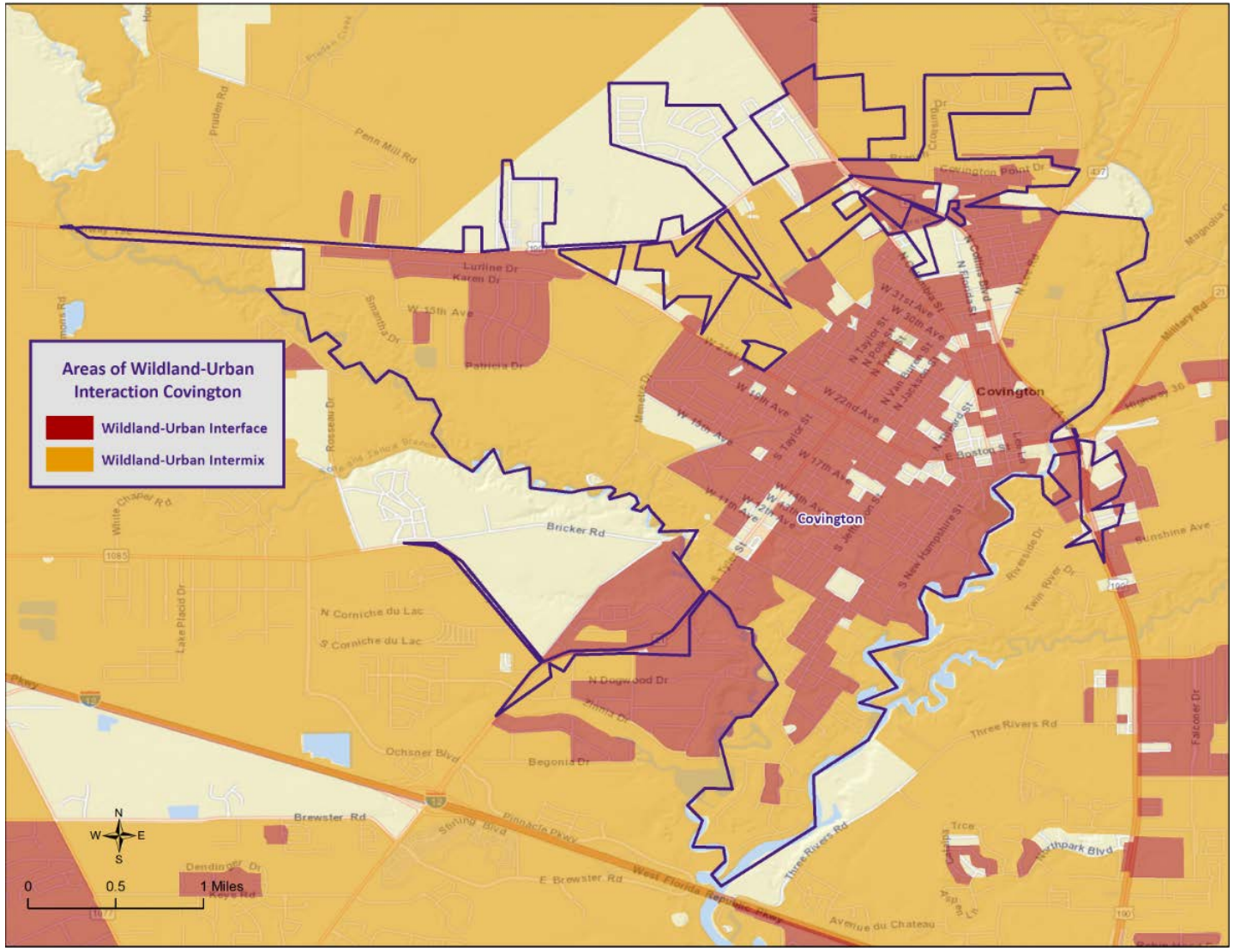
Wildfire Interaction Abita Springs



ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

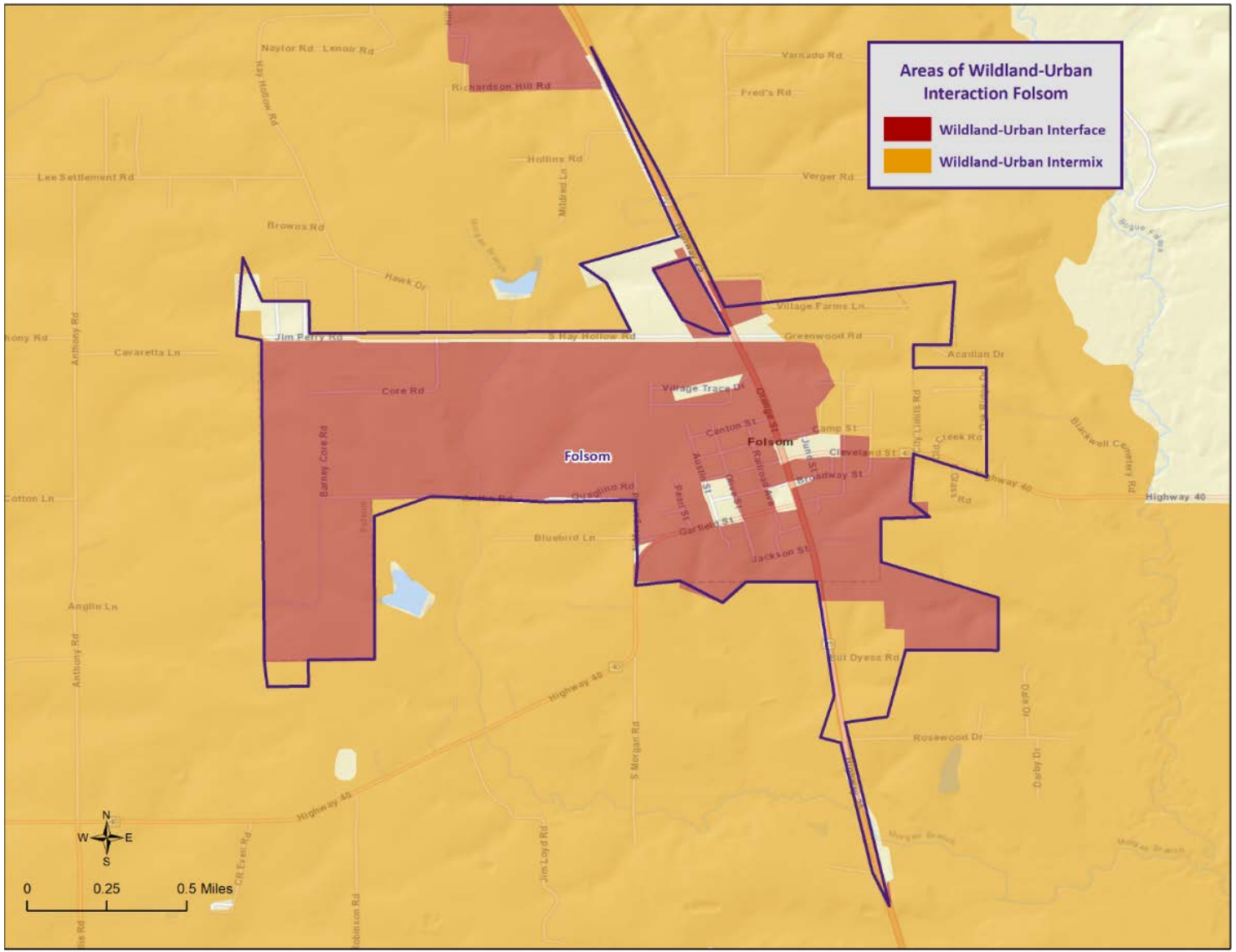
Wildfire Interaction Covington



ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

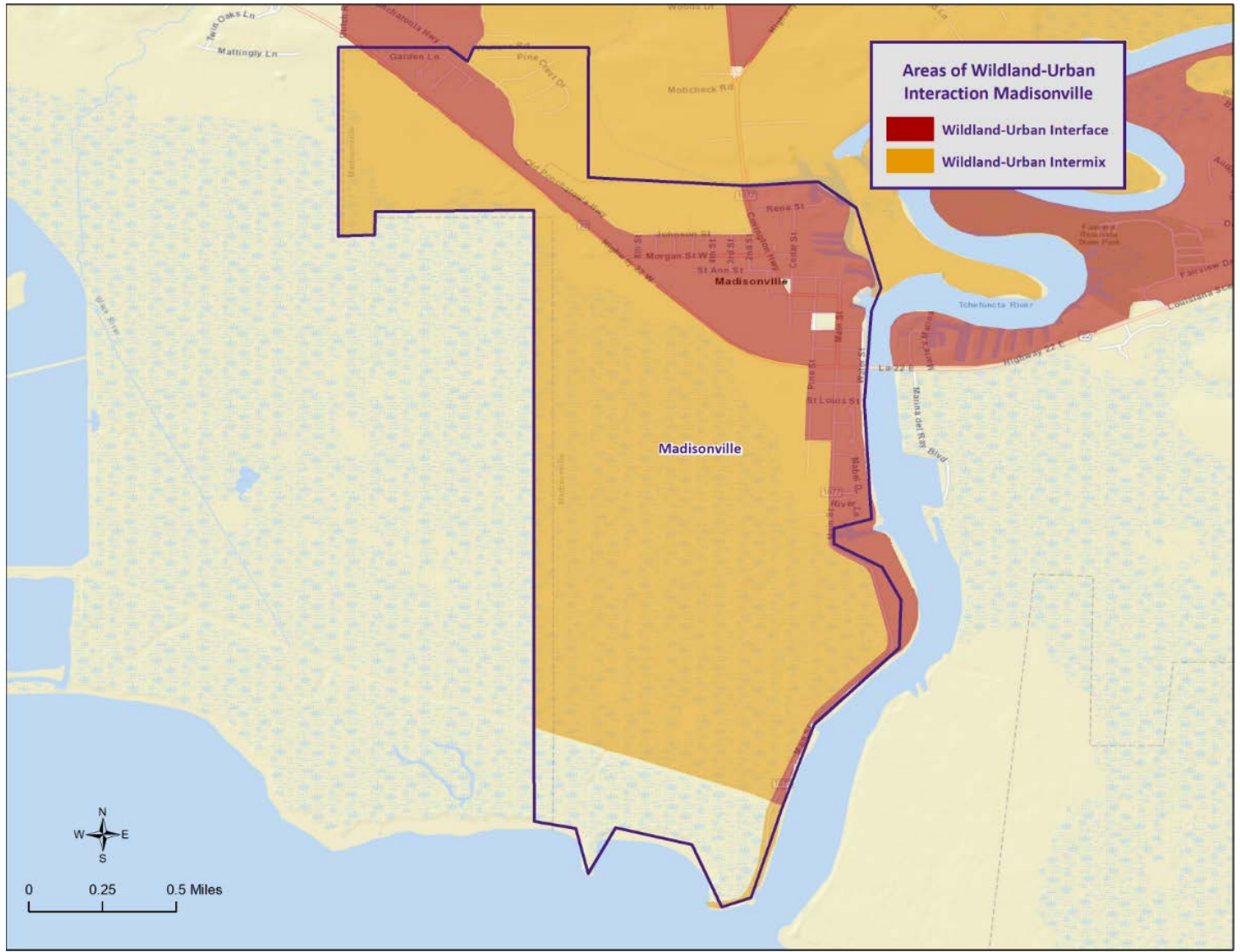
Wildfire Interaction Folsom



ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

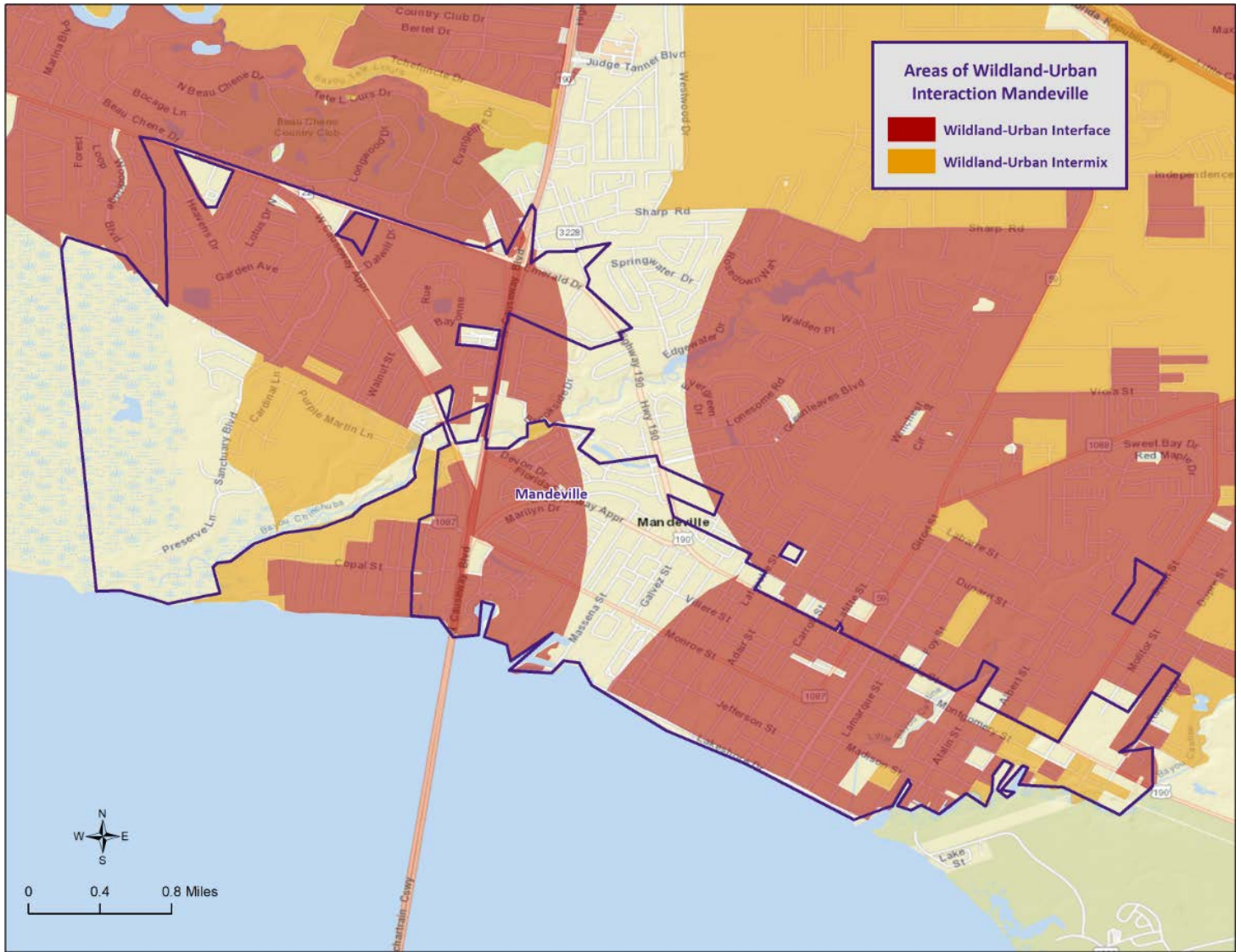
Wildfire Interaction Madisonville



ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

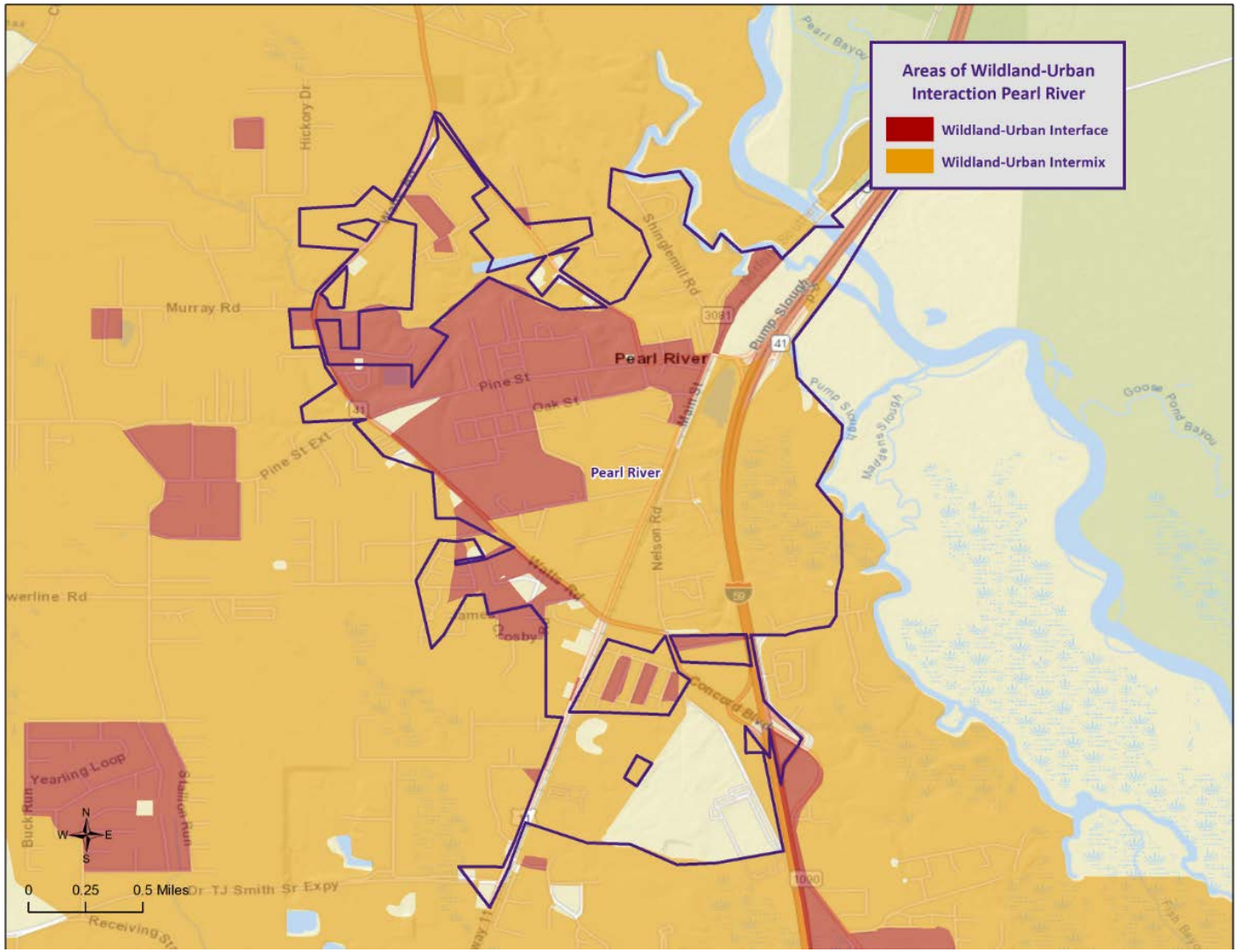
Wildfire Interaction Mandeville



ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

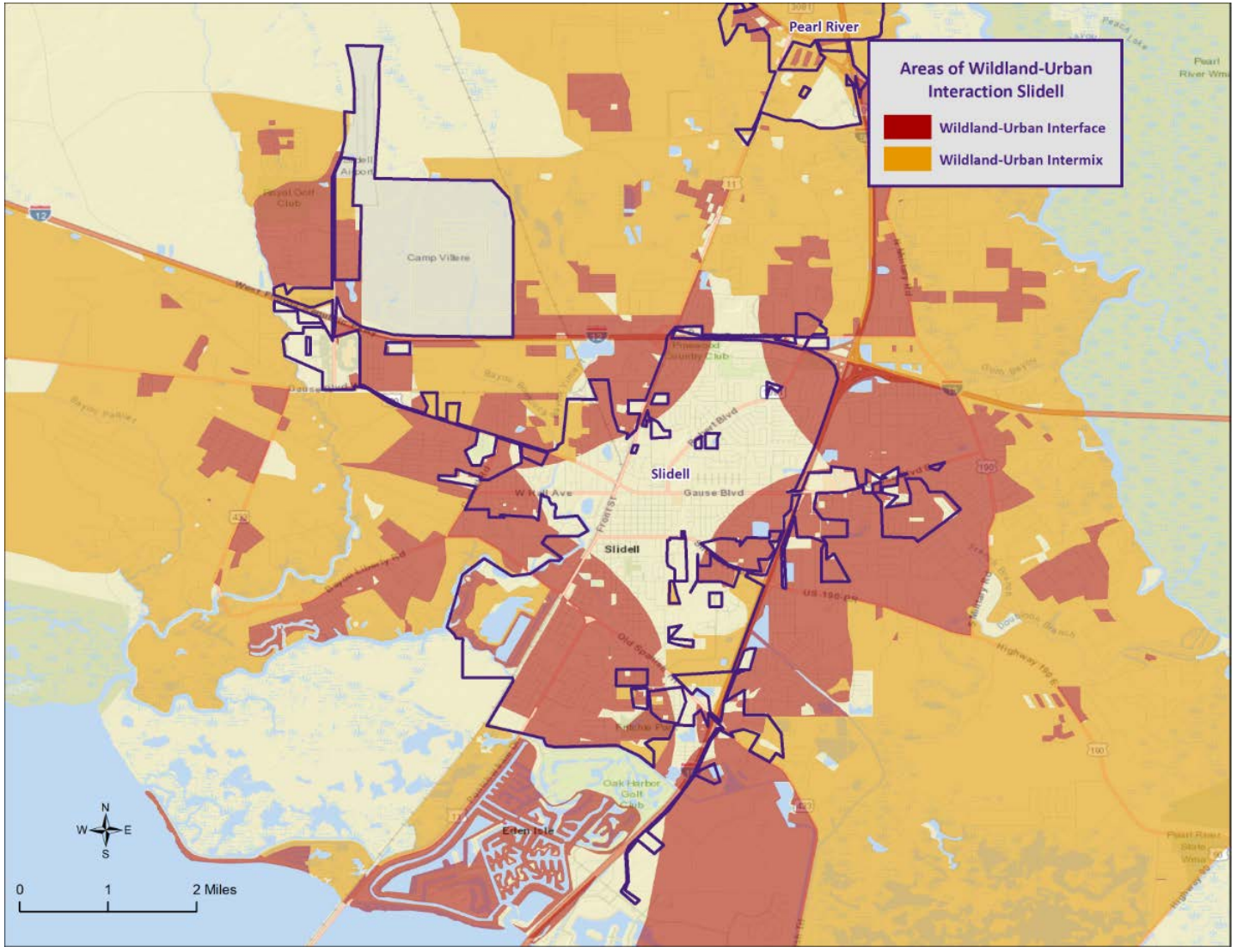
Wildfire Interaction Pearl River



ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

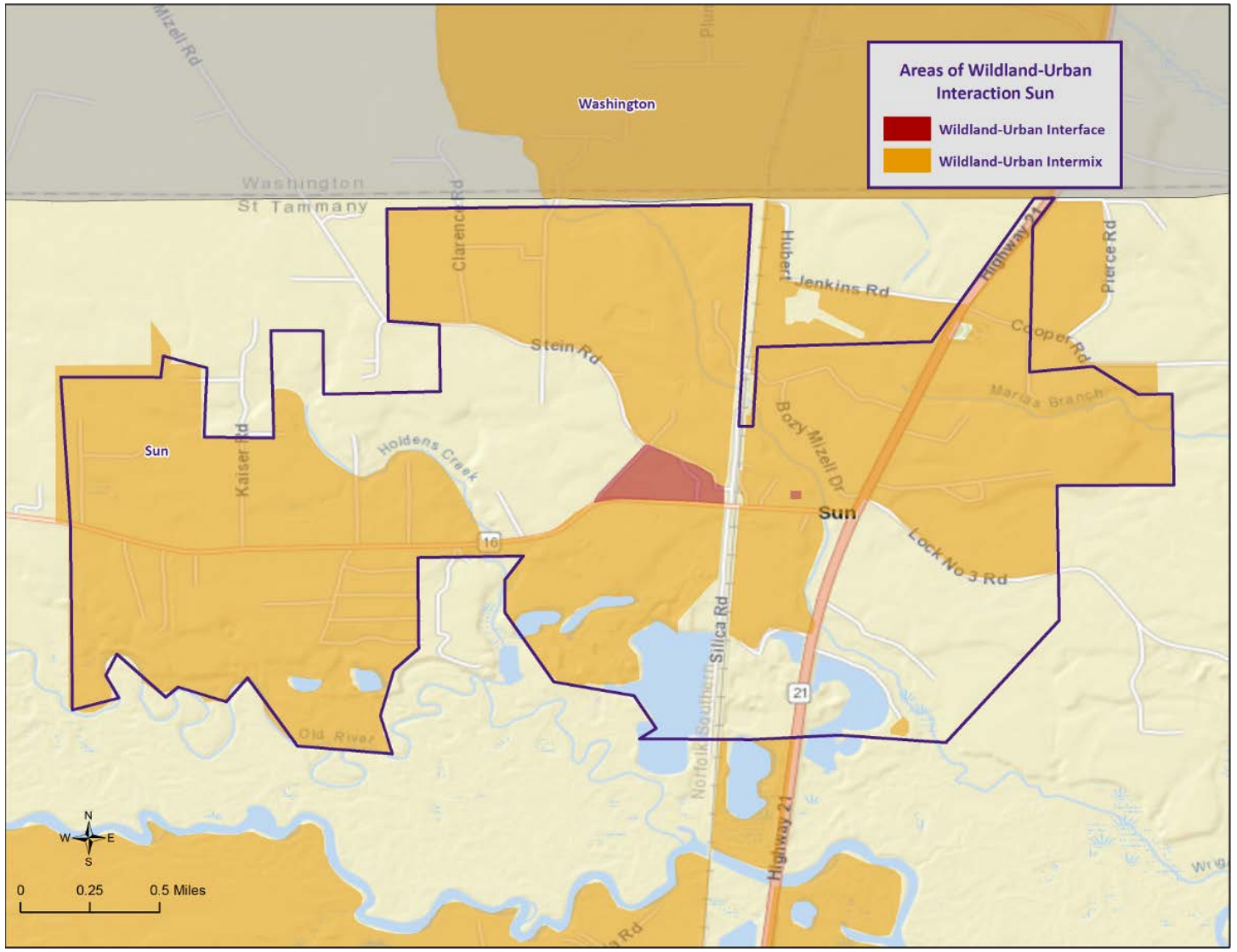
Wildfire Interaction Slidell



ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

Wildfire Interaction Sun



ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

Fog

- Fog is a cloud that is on the ground. Fog forms once evaporation into the air results in super saturation, usually because the ground surface is very wet and the air is cooler
- Fog is common in situations over water or where a daytime shower saturates the soil, vegetation and boundary layer and then skies clear in the evening into the night hours.
- Fog has historically been and continues to be a major problem on the causeway leading to closures year round, typically during the colder months.

LSU | Stephenson Disaster Management Institute

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.

- There are four classes of drought, based upon what is impacted by the shortage of water:
  - Meteorological Drought
  - Hydrologic Drought
  - Agricultural Drought
  - Socioeconomic Drought

- The entire parish can be affected by drought

Drought

U.S. Drought Monitor

Louisiana

June 9, 2020

(Released Thursday, Jun. 11, 2020)

Valid 8 a.m. EDT

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author:

Brad Pugh
CPC/NOAA

droughtmonitor.unl.edu

LSU | Stephenson Disaster Management Institute

Termites

- Termites are small pale colored insects that live off of wood and wooden structures at or near the ground.
- There are two types of termites that live in southeastern Louisiana: drywood termites and subterranean termites.
- The main concentration of termites occurs in southeastern Louisiana, specifically, those areas south of Interstates 10 and 12. Most of St. Tammany Parish is affected

ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

Parish Mitigation Goals

- **Goal 1:** Identify and pursue preventative structural and non-structural measures that will reduce future damages.
- **Goal 2:** Enhance public awareness and understanding of disaster preparedness.
- **Goal 3:** Reduce repetitive flood losses in parish and municipalities.
- **Goal 4:** Facilitate sound building practices in the parish and municipalities so as to reduce or eliminate the potential impact of hazards.
- **Goal 5:** Improve the ability of the parish and municipalities to rapidly recover and restore facilities and services to the public.

ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

Public Outreach Activity

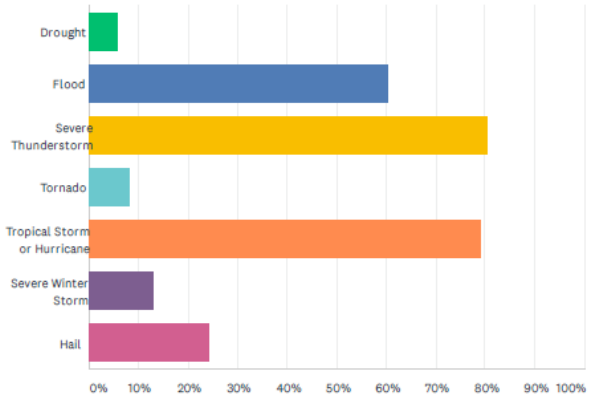
Hazard Mitigation Public Opinion Survey

https://www.surveymonkey.com/r/SttammanyHM2020

St. Tammany Parish Hazard Mitigation Public Opinion Survey

Q4 Which of these natural disasters have you or someone in your household experienced in the past five years? (Check all that apply)

Answered: 186 Skipped: 43

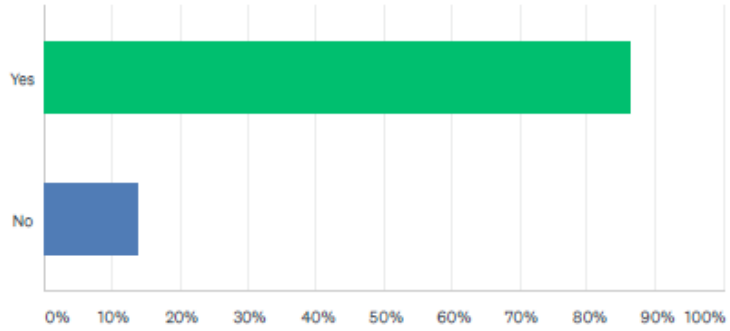


ANSWER CHOICES	RESPONSES	
Drought	5.91%	11
Flood	60.22%	112
Severe Thunderstorm	80.65%	150
Tornado	8.06%	15
Tropical Storm or Hurricane	79.03%	147
Severe Winter Storm	12.90%	24
Hail	24.19%	45
Total Respondents: 186		

St. Tammany Parish Hazard Mitigation Public Opinion Survey

Q6 Have you ever received information about how to make members of your household and your home safer from natural disasters?

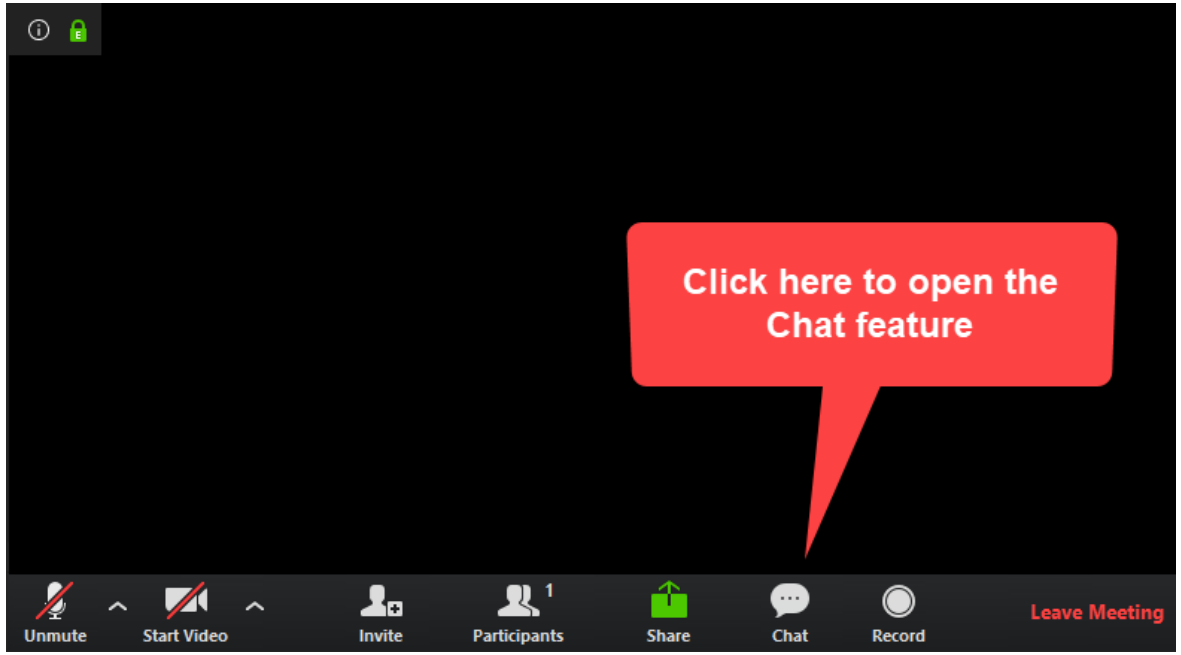
Answered: 203 Skipped: 26



ANSWER CHOICES	RESPONSES	
Yes	86.21%	175
No	13.79%	28
TOTAL		203

Chat Questions

- SDMI Moderator answers to public chat questions that were not addressed directly in the chat function.



ST. TAMMANY PARISH GOVERNMENT

LSU | Stephenson Disaster Management Institute

Contact Us

Brant Mitchell, SDMI Director, MPA, CEM, CISSP

Lauren Stevens, Associate Director, MEPP

lstevens@lsu.edu

Chris Rippetoe, HM Program Manager, CFM

crippe2@lsu.edu

Stephenson Disaster Management Institute

www.sdmi.lsu.edu

LSU | Stephenson Disaster Management Institute


STEPHENSON
WHERE RESEARCH
SDMI
MEETS PRACTICE
LSU
DISASTER MANAGEMENT INSTITUTE