

# South Carolina Office of Resilience (SCOR)

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20 JULY 2022



An aerial photograph of a river with a green overlay. The river is in the center, and the surrounding area is covered in dense green vegetation. The text is overlaid on the river and vegetation.

# **ARPA-funded Stormwater Infrastructure Program (ASIP)**



# Background

- ❑ **WHO:** Applicants are Counties, Cities and Towns
- ❑ **WHAT:** SCOR has \$55M in ARPA funding from the General Assembly to complete Stormwater Infrastructure Projects
- ❑ **WHERE:** Statewide
- ❑ **WHEN:**
  - JULY-AUG 2022      *Outreach*
  - SEP-OCT 2022      *Application Window*
  - NOV 2022          *Review and Ranking*
  - DEC 2022          *Notification of Awards*
  - DEC 2026          *All projects completed and invoiced*
- ❑ **HOW:** Projects can be State or Subrecipient run
- ❑ **WHY:** Lessen the impacts of future flood events





# Stormwater Infrastructure Project Types

## Grey Stormwater Infrastructure (Traditional)

- *New storm sewer pipes*
- *Upsize/replace existing storm sewer pipes*
- *Culverts*
- *Ditches*
- *Curbing*
- *Catch Basins*
- *Other traditional conveyance solutions*



## Green Stormwater Infrastructure (Nature-based)

- *Rain Gardens*
- *Stormwater Planter Boxes*
- *Bioswales*
- *Stormwater Tree Trenches*
- *Infiltration Trenches*
- *Stormwater Wetlands*
- *Pervious Surfaces*
- *Other innovative nature-based solutions*





# Project Scoring Criteria

- Benefit Cost Analysis (BCA)**
- % Low to Moderate Income (LMI) served**
- Nature-based Solutions (Green Infrastructure)**
- Permitting/Scheduling (timeframe)**
- Level of Flood Risk Reduction**
- Quantity of Flood Risk Reduction**
- Mobility Improvement**
- Environmental Impact**

# Application Process





# Why Apply to SCOR?

- Speed**
  - *Taking applications in SEP-OCT*
  - *Awarding in DEC*
  
- Service- we can run the project for you or you can run it**
  
- No cost share**
  
- Easy application**
  
- Assistance with the application**
  - *Olivia from SBP (803) 567-3414 or [obarone@sbpusa.org](mailto:obarone@sbpusa.org)*
  - *SCOR Mitigation staff*

# Contact Information

## General Inquires:

Email	<a href="mailto:DR0Mitigation@scor.sc.gov">DR0Mitigation@scor.sc.gov</a>
Telephone	803-832-8004

## Program Contacts:

<b>Infrastructure Manager</b>	<b>Pamela Kendrick</b>	<b>(803) 354-3281</b>	<b><a href="mailto:Pamela.Kendrick@scor.sc.gov">Pamela.Kendrick@scor.sc.gov</a></b>
<b>Mitigation Program Manager</b>	Phleisha Lewis	(803) 543-0018	<a href="mailto:Phleisha.Lewis@scor.sc.gov">Phleisha.Lewis@scor.sc.gov</a>
<b>Mitigation Director</b>	Ran Reinhard	(803) 315-1406	<a href="mailto:Ran.Reinhard@scor.sc.gov">Ran.Reinhard@scor.sc.gov</a>

**Website: [scor.sc.gov](http://scor.sc.gov)**





The background of the slide is an aerial photograph of a dense forest. A horizontal band of a darker, more saturated green color runs across the center of the image, serving as a backdrop for the title text. The rest of the image shows the natural, lighter green tones of the forest canopy from an elevated perspective.

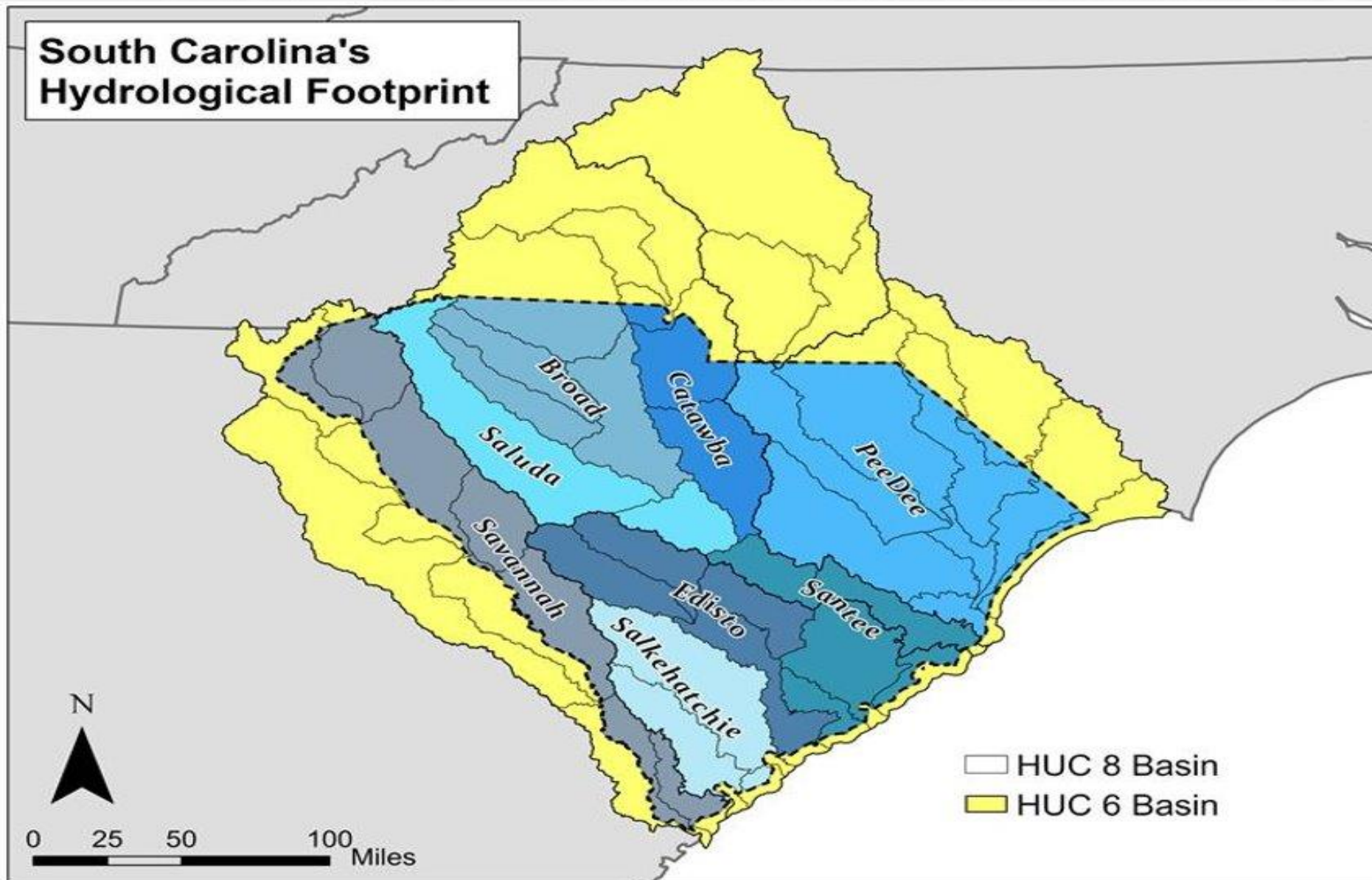
# **Strategic Statewide Resilience & Risk Reduction Plan**

# Planning Framework

- ❑ **Disaster Relief and Resilience Act:** directed SCOR to develop and implement the Strategic Statewide Resilience and Risk Reduction Plan
  - *Framework to guide state investment in flood mitigation projects, and programs and policies to protect the people and property of SC from the damage and destruction of extreme weather events*
  - *Directed initial version completed by July 1, 2022 – extended to July 1, 2023*
- ❑ **Working Definition of Resilience:** The ability of communities, economies, and ecosystems within South Carolina to anticipate, absorb, recover and thrive when presented with environmental change and natural hazards



# Planning Scale



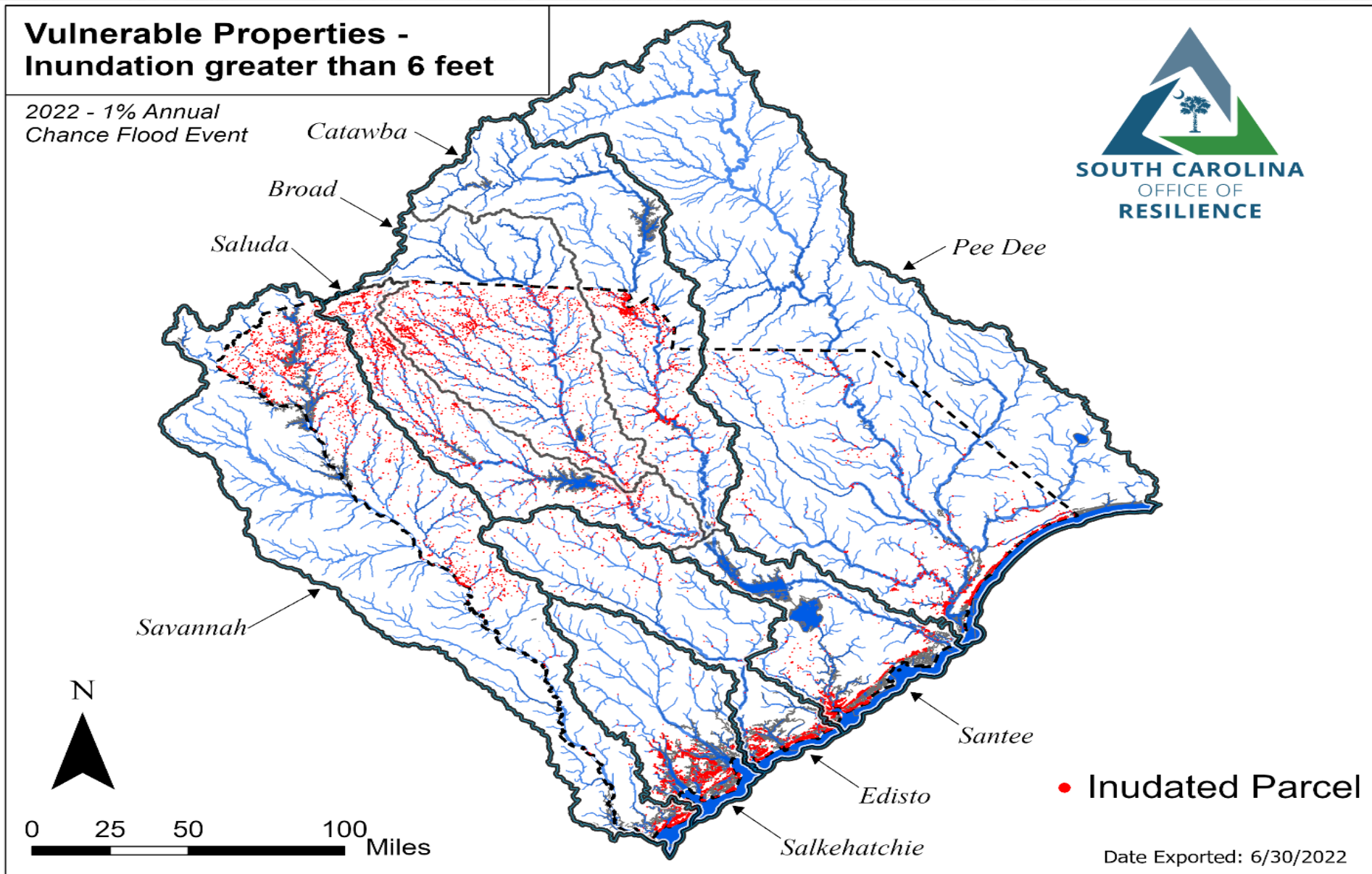
**Water  
doesn't  
follow  
political  
boundaries**

# Vulnerability Assessment – Feedback Requested

- ❑ **The Flood Vulnerability chapter assesses the current and future vulnerability of key locations across the state. This draft chapter will be included in the full Strategic Statewide Resilience and Risk Reduction Plan**
  
- ❑ **Uses First Street Foundation model & property level statistics to quantify the current and future vulnerability of key locations across the state**
  
- ❑ **Draft Document & Story Map**
  - *Quantify the number of parcels inundated by 1% annual chance flood event*
  - *Commercial loss associated with 1% annual chance flood event*
  - *Maps for both 2022 and 2052 1% annual chance flood event*



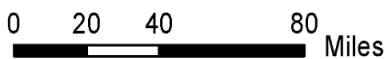
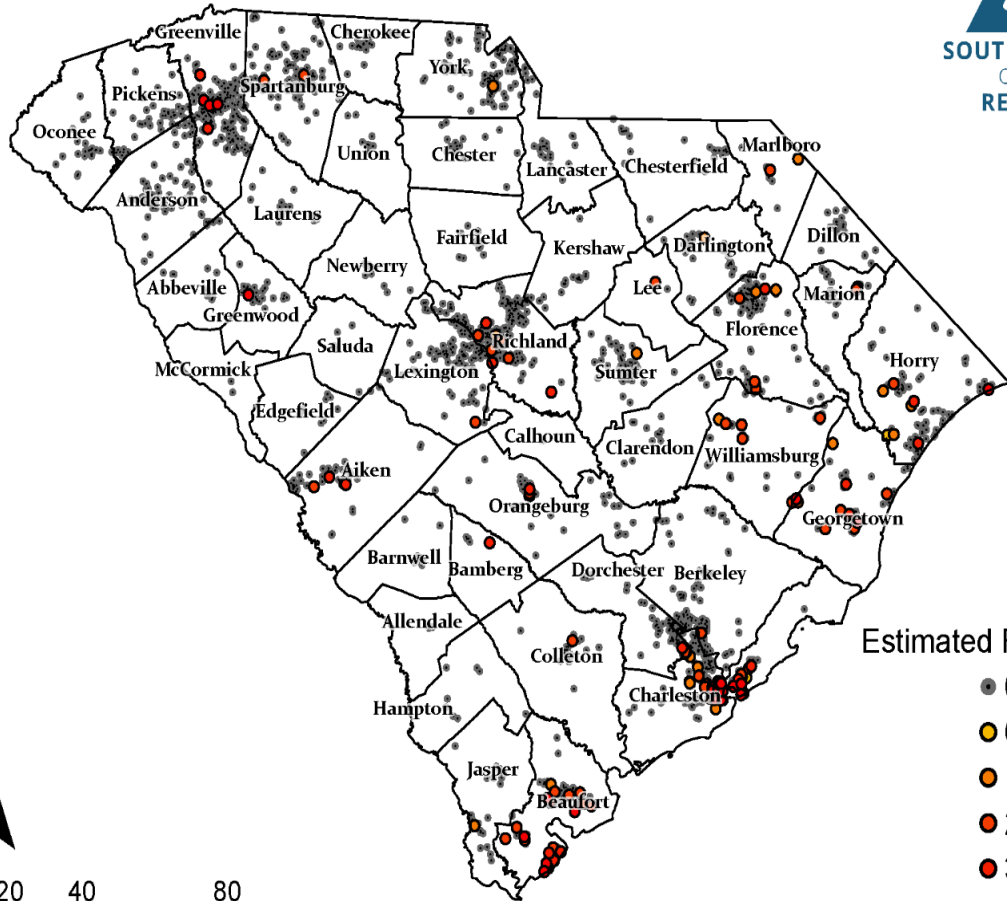
# Example: Vulnerability Assessment



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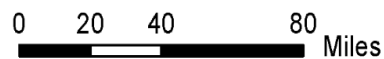
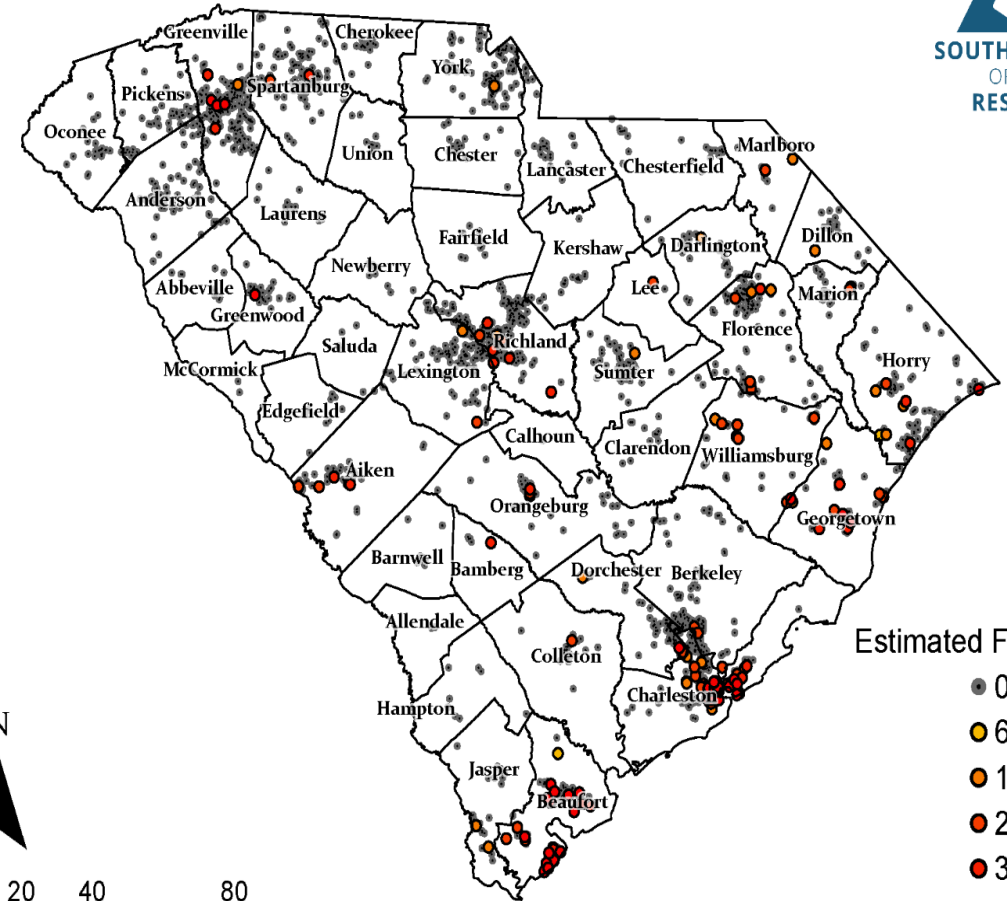
## Childcare Facilities

2022 - 1% Annual Chance Flooding Event



## Childcare Facilities

2052 - 1% Annual Chance Flooding Event





# Resilience in Comprehensive Plans

- ❑ **Currently developing more detailed guidance for the newly required Resilience Element of Comprehensive Plans (SC Code 6-29-510).**
  
- ❑ **Legislative Requirements (one-pager on our website)**
  - *Considers the impact of flooding, high water, and natural hazards on individuals, communities, institutions, businesses, economic development, public infrastructure and facilities, and public health, safety and welfare.*
  - *Includes an inventory of existing resiliency conditions.*
  - *Promotes resilient planning, design, and development.*
  - *Shall be coordinated with adjacent and relevant jurisdictions and agencies.*
  - *Shall be developed in coordination with all preceding elements and integrated into the goals and strategies of each of the other plan elements.*

# Survey



## South Carolina Office of Resilience

Public Flooding Survey Response Dashboard

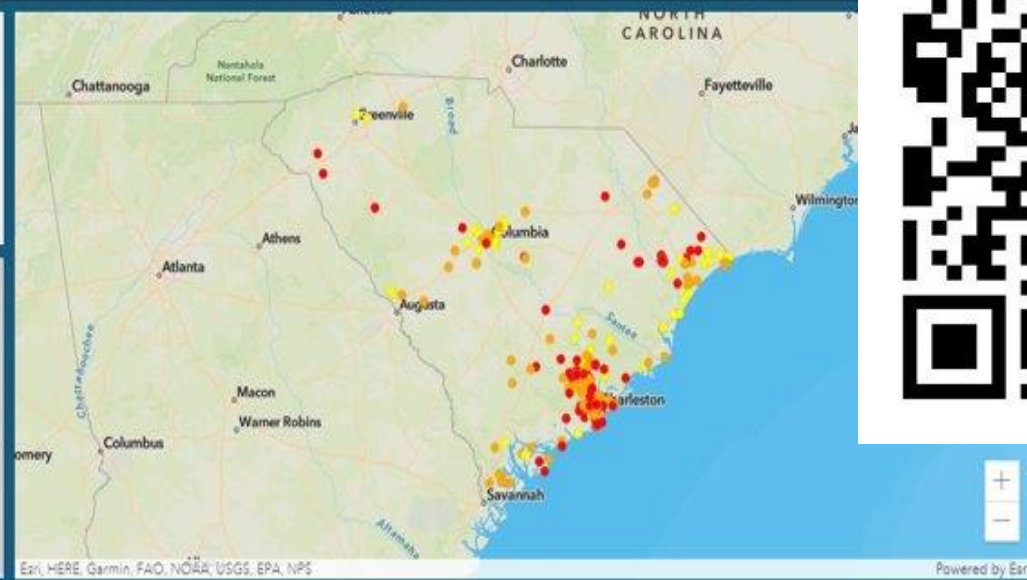


Total Surveys Collected

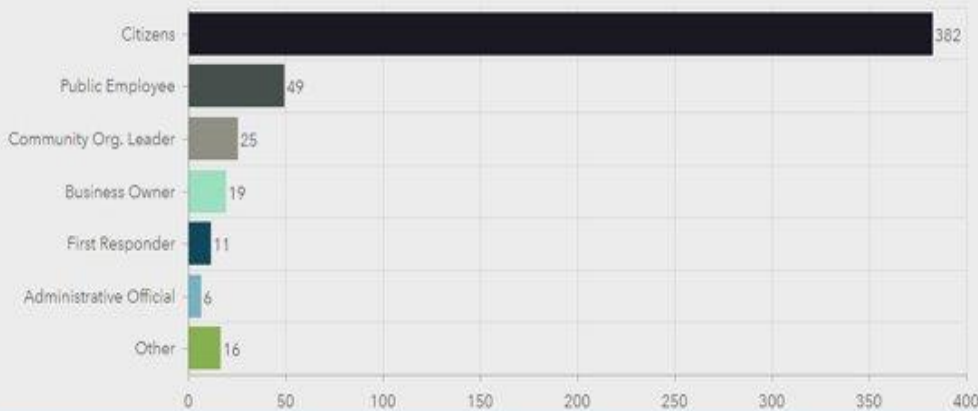
 **421**

### Welcome

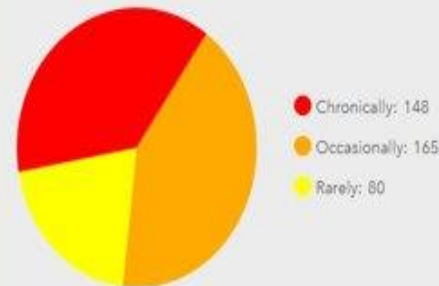
- The mission of the [SC Office of Resilience](#) is to lessen the impact of disasters on the communities and citizens of South Carolina by planning and coordinating statewide resilience, long term recovery and hazard mitigation. Our office is responsible for developing a statewide plan that will offer strategies and solutions to counties, cities, and towns to help manage flooding.
- The data displayed represents individual experiences captured through a public survey, and is therefore does not represent risk levels or a complete understanding of flooding in South Carolina. Responses to this survey will assist us in gathering accurate data about how and where South Carolinians experience flooding, which will help guide in the formulation of the statewide plan.
- If you would like to respond to the survey, please [click here](#).



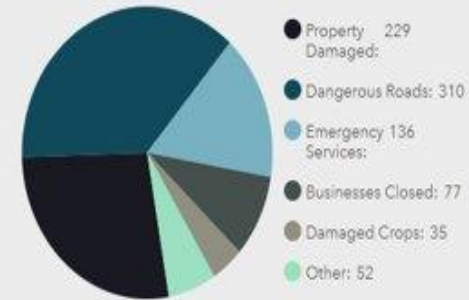
### Who is Responding?



### How often does flooding affect this area?



### How does flooding affect this area?



Dashboard updated January 7th, 2022.



# Resilience Plan Contacts

## Hope Warren

State Planner

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803-766-8043

## Alex Butler

Resilience Planning Director

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803-542-0463

# Questions?

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