



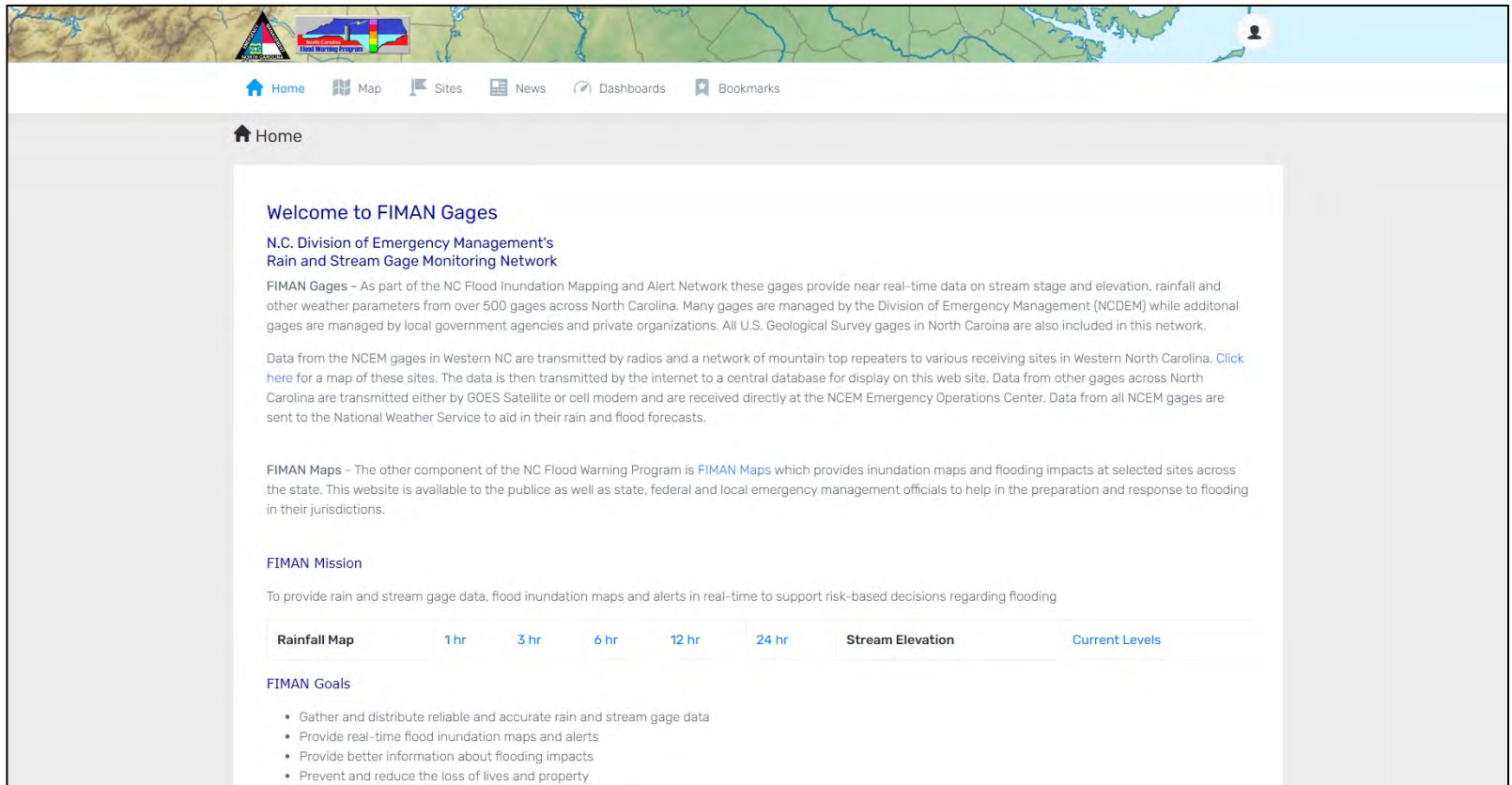
## Flood Inundation Mapping and Alert Network (FIMAN)

<https://fiman.nc.gov/fiman/>



## Tools and Products



The screenshot shows the homepage of the FIMAN Gages website. At the top, there is a navigation bar with icons for Home, Map, Sites, News, Dashboards, and Bookmarks. Below the navigation bar is a "Home" link with a house icon. The main content area features a "Welcome to FIMAN Gages" section with a sub-header "N.C. Division of Emergency Management's Rain and Stream Gage Monitoring Network". The text describes the network's purpose and data sources. Below this is a "FIMAN Maps" section and a "FIMAN Mission" section. At the bottom of the main content area, there is a "FIMAN Goals" section with a bulleted list. A horizontal menu is located above the "FIMAN Goals" section, containing buttons for "Rainfall Map", "1 hr", "3 hr", "6 hr", "12 hr", "24 hr", "Stream Elevation", and "Current Levels".

### Welcome to FIMAN Gages

#### N.C. Division of Emergency Management's Rain and Stream Gage Monitoring Network

FIMAN Gages - As part of the NC Flood Inundation Mapping and Alert Network these gages provide near real-time data on stream stage and elevation, rainfall and other weather parameters from over 500 gages across North Carolina. Many gages are managed by the Division of Emergency Management (NCDDEM) while additional gages are managed by local government agencies and private organizations. All U.S. Geological Survey gages in North Carolina are also included in this network.

Data from the NCEM gages in Western NC are transmitted by radios and a network of mountain top repeaters to various receiving sites in Western North Carolina. [Click here](#) for a map of these sites. The data is then transmitted by the internet to a central database for display on this web site. Data from other gages across North Carolina are transmitted either by GOES Satellite or cell modem and are received directly at the NCEM Emergency Operations Center. Data from all NCEM gages are sent to the National Weather Service to aid in their rain and flood forecasts.

FIMAN Maps - The other component of the NC Flood Warning Program is [FIMAN Maps](#) which provides inundation maps and flooding impacts at selected sites across the state. This website is available to the public as well as state, federal and local emergency management officials to help in the preparation and response to flooding in their jurisdictions.

#### FIMAN Mission

To provide rain and stream gage data, flood inundation maps and alerts in real-time to support risk-based decisions regarding flooding

**Rainfall Map**    **1 hr**    **3 hr**    **6 hr**    **12 hr**    **24 hr**    **Stream Elevation**    **Current Levels**

#### FIMAN Goals

- Gather and distribute reliable and accurate rain and stream gage data
- Provide real-time flood inundation maps and alerts
- Provide better information about flooding impacts
- Prevent and reduce the loss of lives and property





CAPE FEAR RIVER @ US701, Elizabethtown (30075)

Home | Map | Sites | News | Dashboards | Bookmarks

Reload

### Sensors

Sensor Name	Value	Last Update
Battery (8)	13.9 V	2 minutes ago
NOAA Output (HG) Stage	11.50 ft	2 minutes ago
Stage (HG)	11.50 ft	2 minutes ago
Stream Elevation (7)	20.09 ft	2 minutes ago

### Map

34.6330340,-78.6027520

### Notes

- Gauge Elevation: 85.24 ft
- Top of Road: 79.61 ft
- Low Chord: 72.68 ft





Home Map Sites News Dashboards Bookmarks

### Pamlico Sound at Cedar Island Ferry Terminal (CTIN7)

Home > Sites Reload

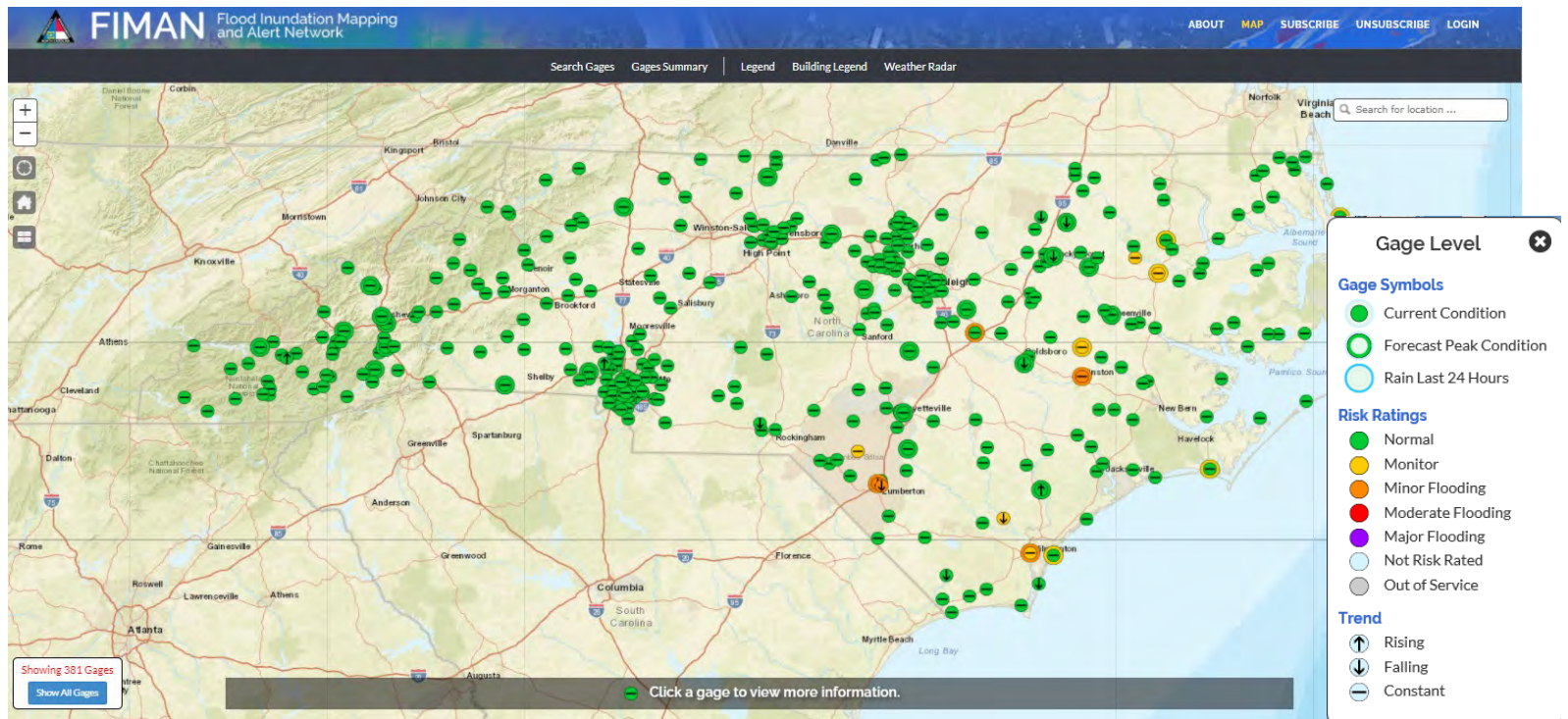
#### Sensors

Air Temperature (TA)	75.9 F	31 minutes ago
Barometric Pressure (PA)	29.86 inHg	31 minutes ago
Battery (VB)	13.1 V	an hour ago
Humidity (XR)	76 %	31 minutes ago
Peak Wind Gust (UP)	15 mph	31 minutes ago
Rain Accumulation (PC)	1,919.00 in	31 minutes ago
Rain Increment (PP)	0.00 in	31 minutes ago
Stage (HG)	0.44 ft	31 minutes ago
Water Elevation (HH)	0.44 ft	31 minutes ago

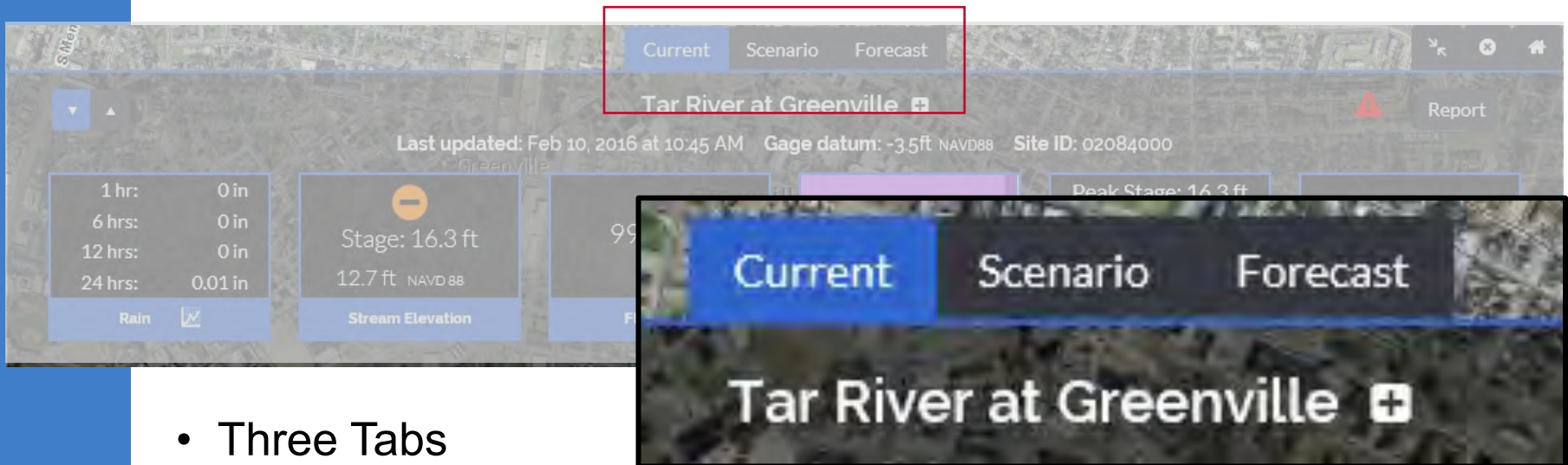




# Home Screen / Current Severity



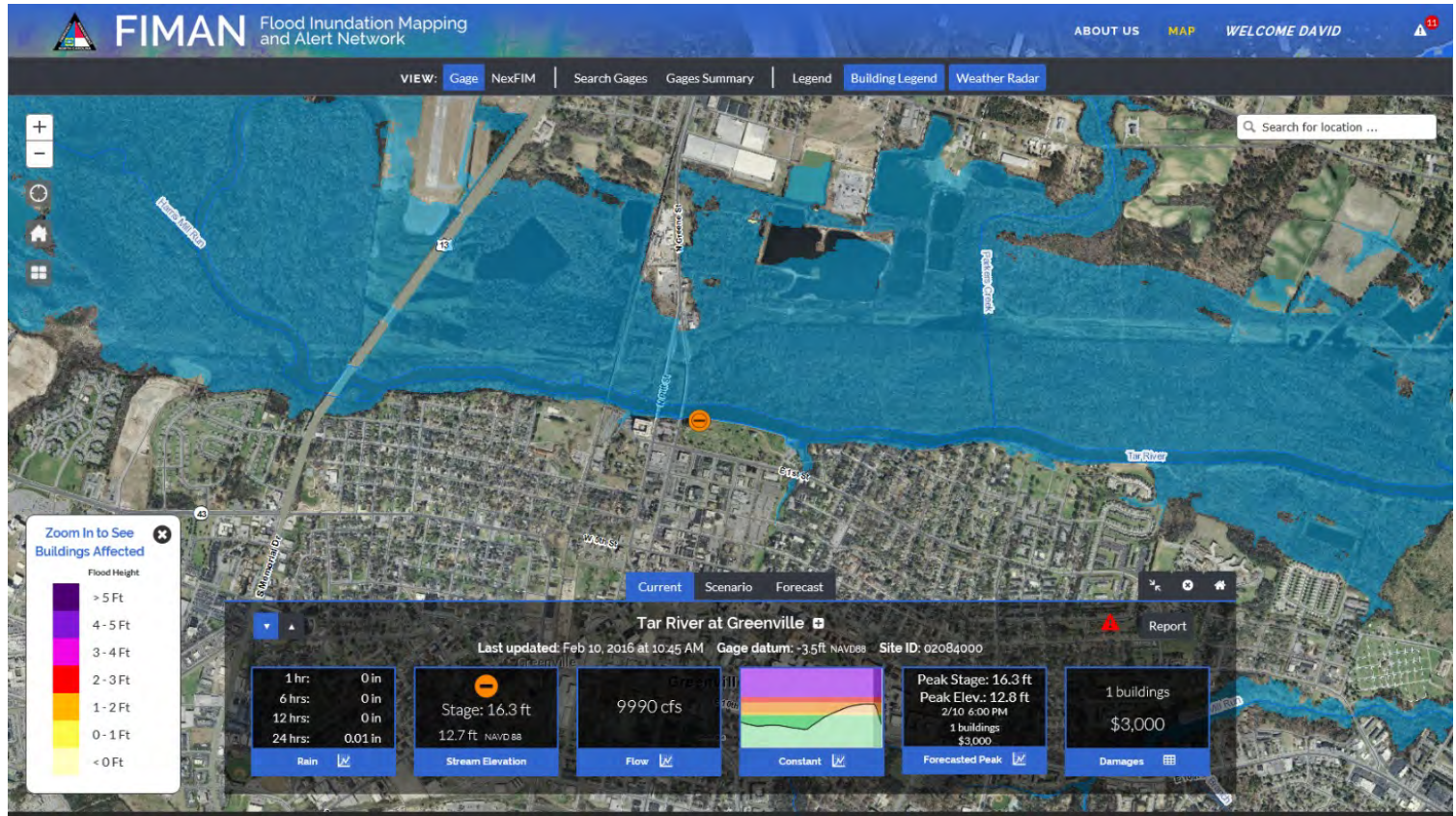
## Gage View - Dashboard Concept



- Three Tabs
  - **Current:** Provides most recent inundation extent
  - **Scenario:** Planning tool for visualization and impact
  - **Forecast:** Shows timeline using NWS forecast data
- Info Widgets
  - Interactive for rainfall, stage, flow, forecast, impacts

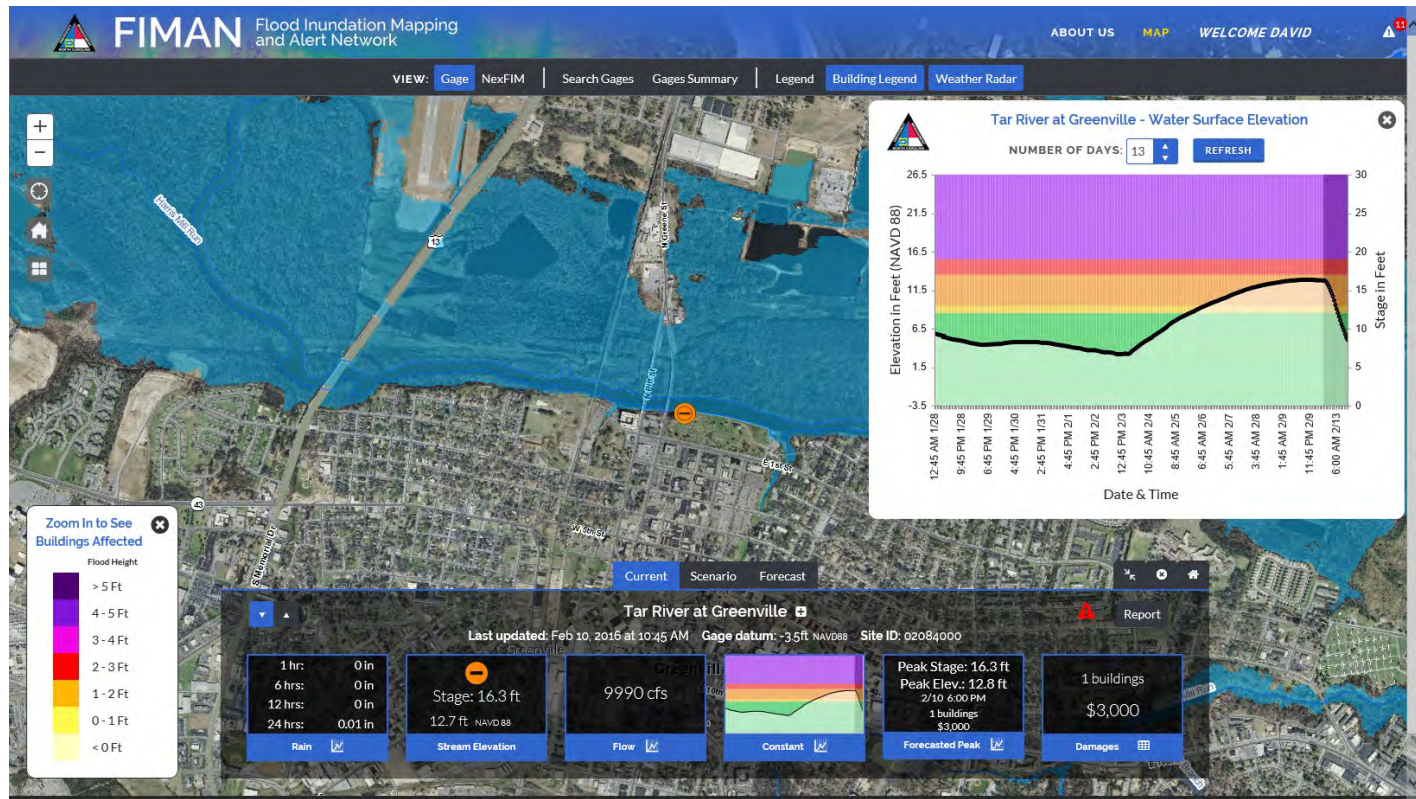


# Current Inundation Level and Map






# Gage Stage Charts + Forecast









# Real Time Flood Impacts



## Neuse River near Goldsboro Buildings in Inundation Extent

Current Elevation: 65 Ft





Current Flood Depth	Total		Residential		Commercial		Public	
	Count	Est. Damag...	Count	Est. Damag...	Count	Est. Damag...	Count	Est. Damag...
Sub Structure	18	\$16,000	16	\$14,000	2	\$2,000	0	\$0
0 - 1 ft	2	\$5,000	2	\$5,000	0	\$0	0	\$0
1 - 2 ft	1	\$75,000	0	\$0	1	\$75,000	0	\$0
2 - 3 ft	2	\$24,000	1	\$15,000	1	\$9,000	0	\$0
3 - 4 ft	0	\$0	0	\$0	0	\$0	0	\$0
4 - 5 ft	0	\$0	0	\$0	0	\$0	0	\$0
> 5 ft	0	\$0	0	\$0	0	\$0	0	\$0
<b>TOTAL</b>	<b>23</b>	<b>\$120,000</b>	<b>19</b>	<b>\$34,000</b>	<b>4</b>	<b>\$86,000</b>	<b>0</b>	<b>\$0</b>


\*Additional buildings may be impacted outside of the inundation extent.

Stage: 20.2 ft  
62.2 ft NAVD 88

Stream Elevation

305 cfs

Flow




Rising

No data available

Forecasted Peak

23 buildings  
\$120,000

Damages



Impact

FIMAN Flood Inundation Mapping and Alert Network

NC Floodplain Mapping Program  
4105 Reedy Creek Drive  
Raleigh, NC 27607

Mailing Address  
4218 Mall Service Center  
Raleigh, NC 27699-4218

Phone: (919) 715-5711  
Fax: (919) 715-0408



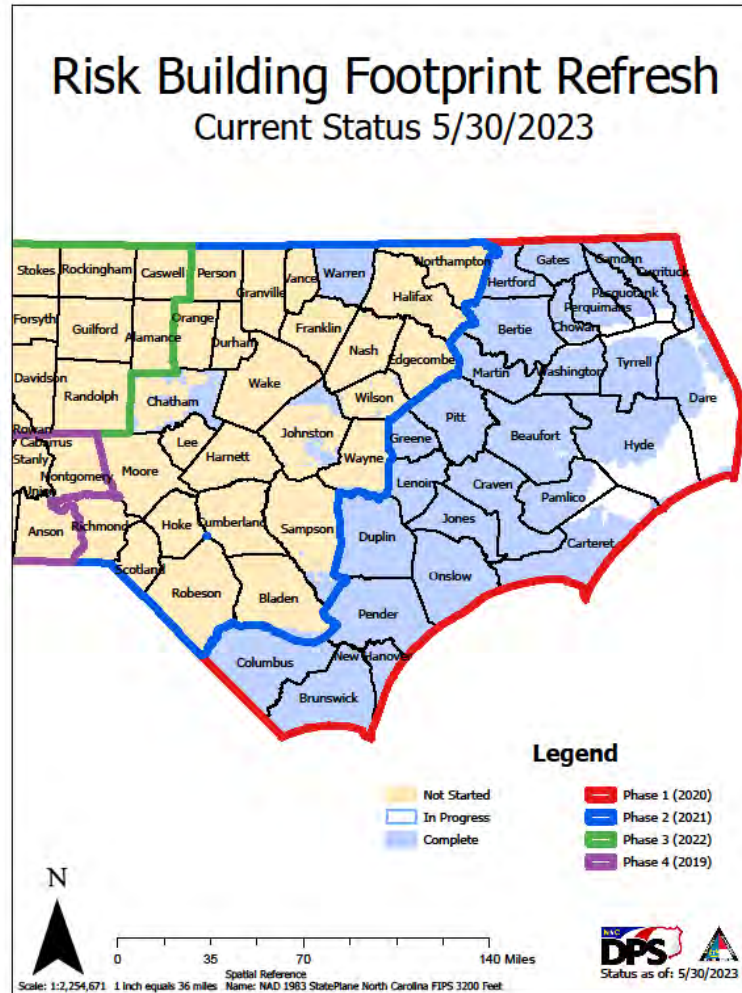


## First Floor Elevation Collection – Mobile LiDAR





# Building Footprint Update Status





# Real Time Alerts

**FIMAN** Flood Inundation Mapping and Alert Network

VIEW: **Gage** NexFIM Search Gages Gages Summary Legend Building Legend Weather Radar

**ALERT SETTINGS**  
Tar River at Greenville

Alerts My Account

Stage	Alert Type
15.5 ft.	Major Flooding
13.5 ft.	Moderate Flooding
9.5 ft.	Minor Flooding
8.5 ft.	Monitor

ALERTS WILL BE SENT WHEN THE FOLLOWING CONDITIONS ARE MET:  
Click to Activate/Deactivate

Rises Above  Falls Below  Forecast to Rise

Forecast to Fall

Selected conditions will be applied to all gage alerts.

**View your alert settings for the following Gage:**

Tar River at Greenville

**Gage Level**

**Gage Symbols**

- Current Condition
- Forecast Peak Condition
- Rain Last 24 Hours

**Risk Ratings**

- Normal
- Monitor
- Minor Flooding
- Moderate Flooding
- Major Flooding
- Not Risk Rated
- Out of Service

**Trend**

- ↑ Rising
- ↓ Falling
- Constant

**Tar River at Greenville**

Last updated: Aug 8, 2017 at 11:00 AM Gage datum: -3.5ft NAVD88 Site ID: 02084000

1 hr: 0 in	Stage: 3.5 ft	428 cfs	No data available	No Damages Assessed
6 hrs: 0.33 in	0 ft NAVD88			
12 hrs: 0.67 in				
24 hrs: 0.67 in				

Showing 256 Gages



# Flood Scenario Mode



VIEW: [Gage](#) [NexFIM](#) | [Search Gages](#) [Gages Summary](#) | [Legend](#) [Building Legend](#) [Weather Radar](#)

Search for location ...



**Zoom In to See Buildings Affected**

Flood Height

- > 5 Ft
- 4 - 5 Ft
- 3 - 4 Ft
- 2 - 3 Ft
- 1 - 2 Ft
- 0 - 1 Ft
- < 0 Ft

Current Scenario Forecast

Drag to simulate flood severity

Stage (ft) 9.5 11.5 13.5 15.5 17.5 19.5 21.5 23.5 25.5 27.5 29.5

Elevation (NAVD 88) 6 8 10 12 14 16 18 20 22 24 26

**Tar River at Greenville** Report

Last updated: Feb 10, 2016 at 11:45 AM Gage datum: -3.5ft NAVD88 Site ID: 02084000

1 hr: 0 in 6 hrs: 0 in 12 hrs: 0 in 24 hrs: 0.01 in	Rain
Stage: 16.3 ft 12.7 ft NAVD 88	Stream Elevation
9990 cfs	Flow
Constant	Constant
Peak Stage: 16.2 ft Peak Elev.: 12.7 ft 2/11 12:00 AM	Forecasted Peak
No est. damages forecast	Damages

1,172 buildings  
\$27,294,000



**FIMANT** Flood Inundation Mapping and Alert Network for Transportation

FIMAN ABOUT MAP USER

Search Gages Roads Summary Bridge Summary Legend Weather Radar Show Local Roads Show Assets Show Bridges

Search for location ...

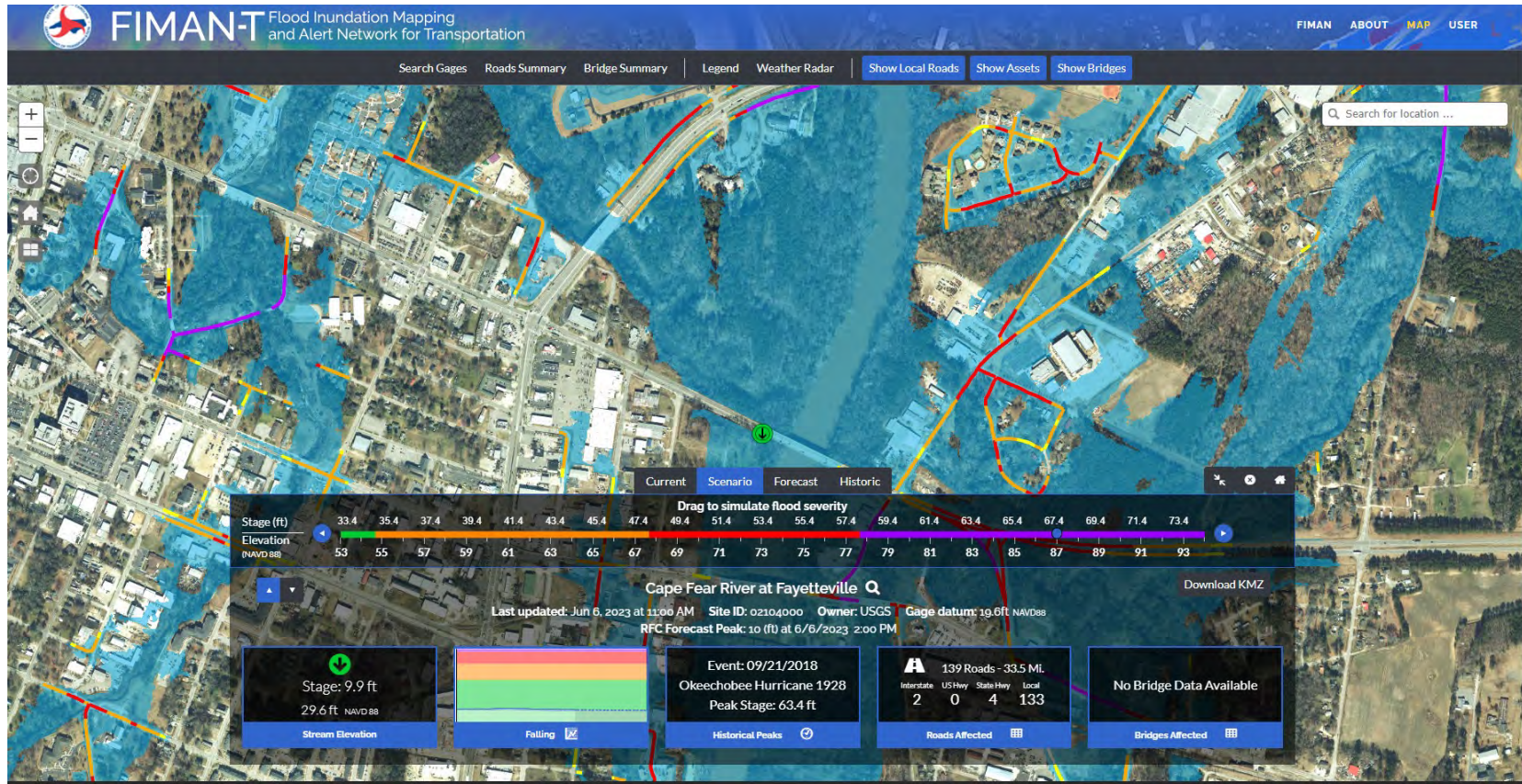
Current Scenario Forecast Historic

**Cape Fear River at Fayetteville**  Download KMZ

Last updated: Jun 6, 2023 at 11:00 AM Site ID: 02104000 Owner: USGS Gage datum: 19.6ft NAVD83  
RFC Forecast Peak: 10 (ft) at 6/6/2023 2:00 PM

<p>Stage: 9.9 ft 29.6 ft NAVD83</p> <p>Stream Elevation</p>	<p>Filling <input checked="" type="checkbox"/></p>	<p>Event: 09/21/2018 Okeechobee Hurricane 1928 Peak Stage: 63.4 ft</p> <p>Historical Peaks <input type="checkbox"/></p>	<p><b>A</b> 0 Roads - 0.0 Mi.</p> <table border="1"> <tr> <td>Interstate</td> <td>US Hwy</td> <td>State Hwy</td> <td>Local</td> </tr> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </table> <p>Roads Affected <input type="checkbox"/></p>	Interstate	US Hwy	State Hwy	Local	0	0	0	0	<p>No Bridge Data Available</p> <p>Bridges Affected <input type="checkbox"/></p>
Interstate	US Hwy	State Hwy	Local									
0	0	0	0									







**FIMANT** Flood Inundation Mapping and Alert Network for Transportation

Search Gages Roads Summary Bridge Summary Legend Weather Radar Show Local Roads Show Assets Show Bridges

Cape Fear River at Fayetteville  
Scenario Stage: 67.4 Ft  
Elevation: 87 (NAVD 88)

Impact: Road Segments

Roadway Flood Depth Range	Estimated Inundated Lengths (Miles)				
	Total	Interstate	US Highway	NC Highway	Local Roads
0 - 0.5ft	4.5	0.0	0.0	0.4	4.1
0.5 - 2.0ft	15.5	0.0	0.0	0.8	14.7
2.0 - 5.0ft	10.2	0.0	0.0	1.4	8.8
5.0 + ft	3.4	0.0	0.0	0.1	3.2
<b>Total</b>	<b>33.5</b>	<b>0.0</b>	<b>0.0</b>	<b>2.7</b>	<b>30.8</b>

- Roadway classification and flood inundation values determined by using NCDOT LRS datasets overlaid on NCEM QL1 and QL2 raster datasets. All lengths are in miles.
- Some roadways may be inundated that do not appear in this application.
- Information should be evaluated with ground conditions before road closures or other emergency response actions.

Stage (ft): 33.4 35.4 37.4 39.4 41.4 43.4 45.4 47.4 49.4 51.4 53.4 55.4 57.4  
Elevation (NAVD 88): 53 55 57 59 61 63 65 67 69 71 73 75 77

Drag to simulate flood severity

Cape Fear River at Fayetteville  
Last updated: Jun 6, 2023 at 11:06 AM Site ID: 02104000 Owner: USGS Gage datum: 19.6ft NAVD83  
RFC Forecast Peak: 10 (ft) at 6/6/2023 2:00 PM

Stream Elevation: Stage: 9.9 ft, 29.6 ft NAVD88

Falling

Event: 09/21/2018 Okeechobee Hurricane 1928 Peak Stage: 63.4 ft

139 Roads - 33.5 Mi.  
Interstate: 2, US Hwy: 0, State Hwy: 4, Local: 133

No Bridge Data Available







**FIMAN-T** Flood Inundation Mapping and Alert Network for Transportation

Search Gages Roads Summary Bridge Summary Legend Weather Radar Show Local Roads Show Assets Show Bridges

### Historic Flood Summary

(Select an event in the table below to view flood inundation and impacts on the map)

Historic Event Name	Date	Peak Stage (ft)
Hurricane Matthew	10/12/2016	29.74
June 1866 Flood	06/01/1866	29
Hurricane Floyd	09/20/1999	28.85
July 1919 Flood	07/01/1919	28
Hurricane Florence	09/18/2018	27.6

**Legend**

- Bridges**
  - Pressure / Weir
  - Warning
  - Normal
  - Not Reporting
- NCDOT Assets**
  - Building
  - Land
- Road Inundation Levels**
  - > 5 Ft
  - 2 - 5 Ft
  - 0.5 - 2 Ft
  - 0 - 0.5 Ft

**Neuse River near Goldsboro**

Last updated: Jun 6, 2023 at 11:15 AM Site ID: 02089000 Owner: USGS Gage datum: 41.9ft NAVD83  
RFC Forecast Peak: 3.6 (ft) at 6/6/2023 2:00 PM

Stage: 3.6 ft  
45.5 ft NAVD88

Stream Elevation Constant

Event: 10/12/2016  
Hurricane Matthew  
Peak Stage: 29.74 ft

Historical Peaks

169 Roads - 53.3 Mi.  
Interstate 0 US Hwy 5 State Hwy 6 Local 158

Roads Affected

10 Bridges

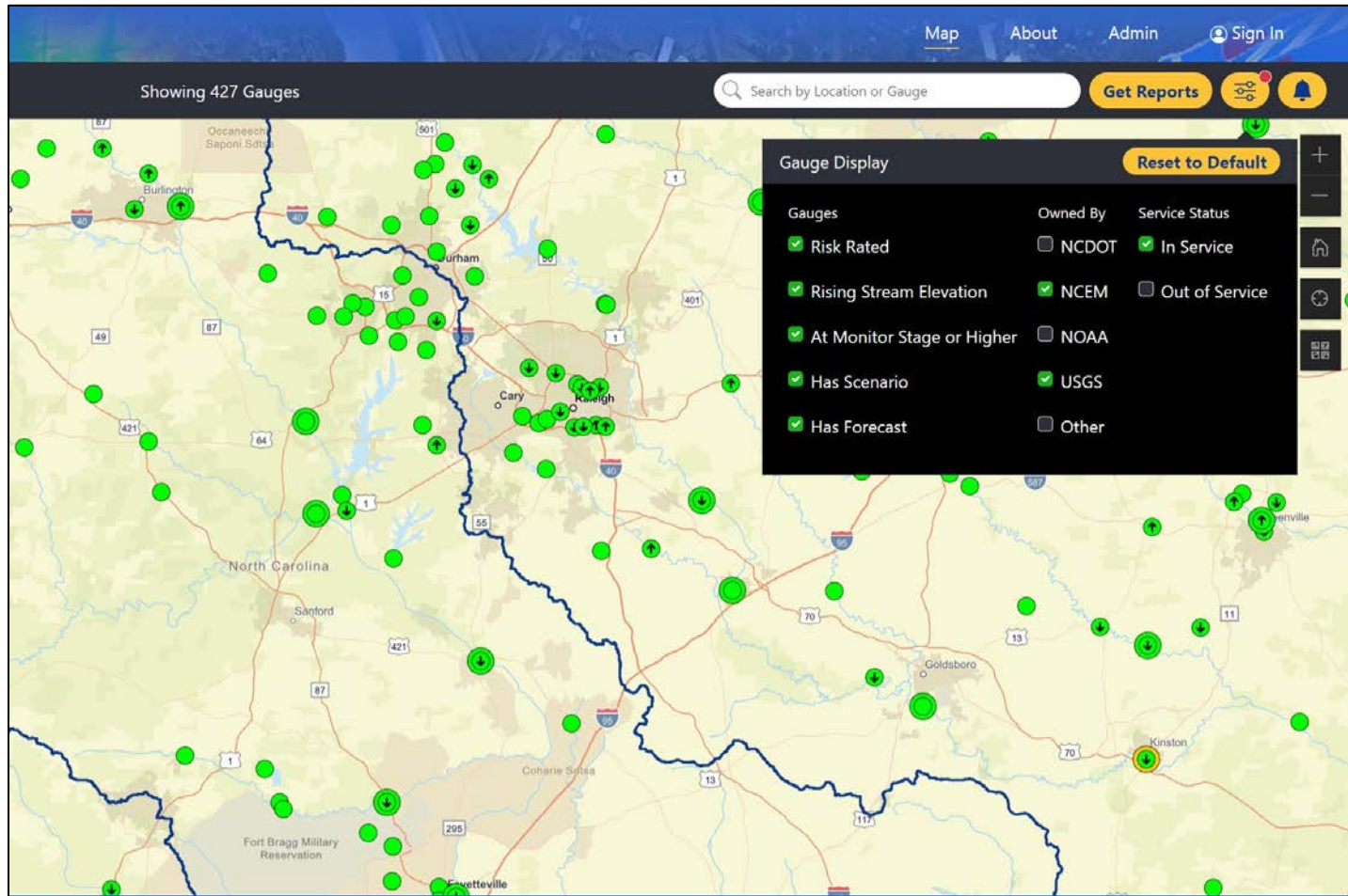
Bridges Affected

Download KMZ





# FIMAN Update





**FIMAN** Flood Inundation Mapping & Alert Network

Map About Admin Sign In

Menu  Weather Radar Showing 508 Gauges Search by Location or Gauge Get Reports

**FIMAN TOOLS**

Overview Layers Legend

**Find Gauges**

By Area of Interest By Location

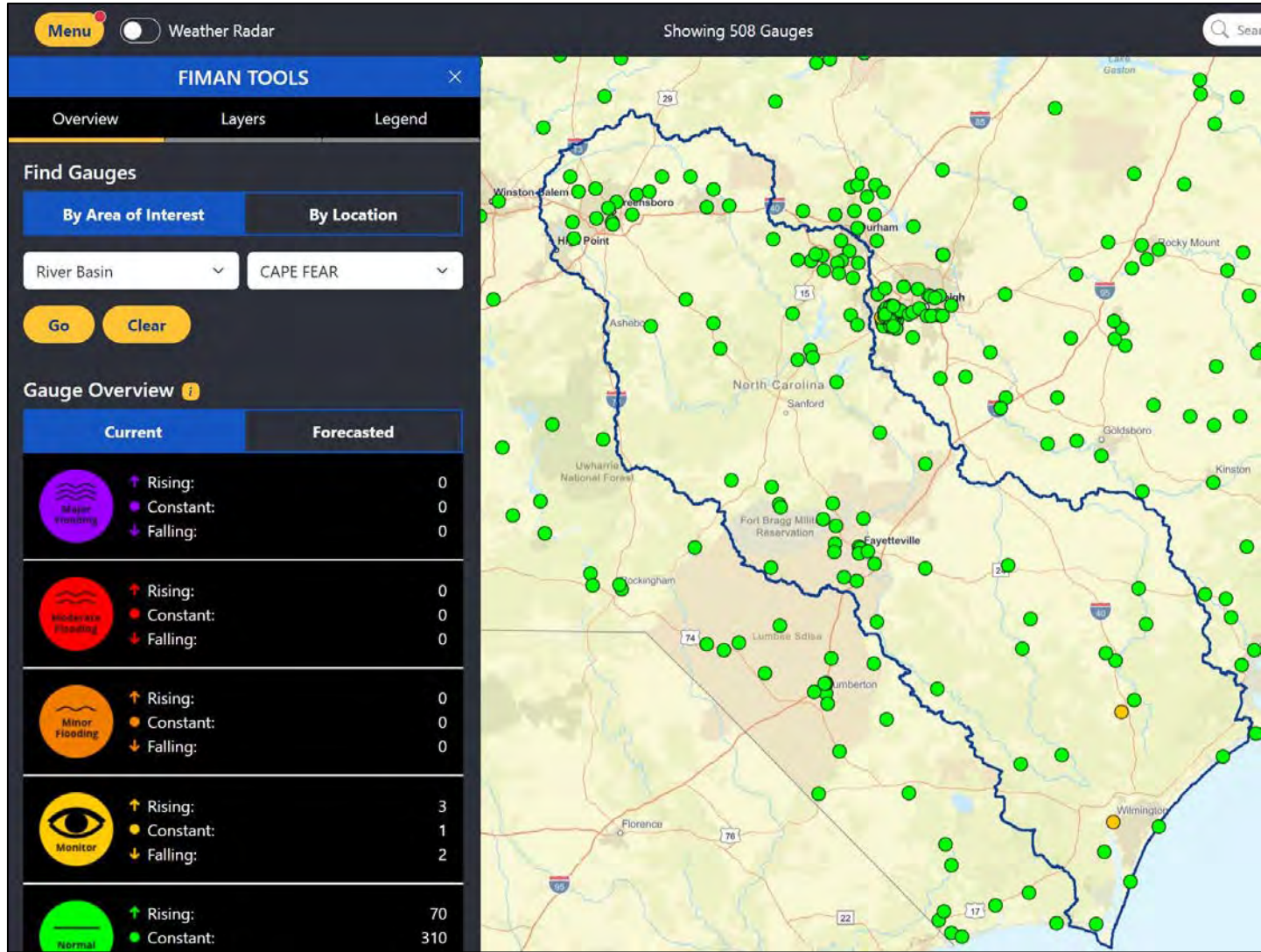
Select Category Select Subcategory

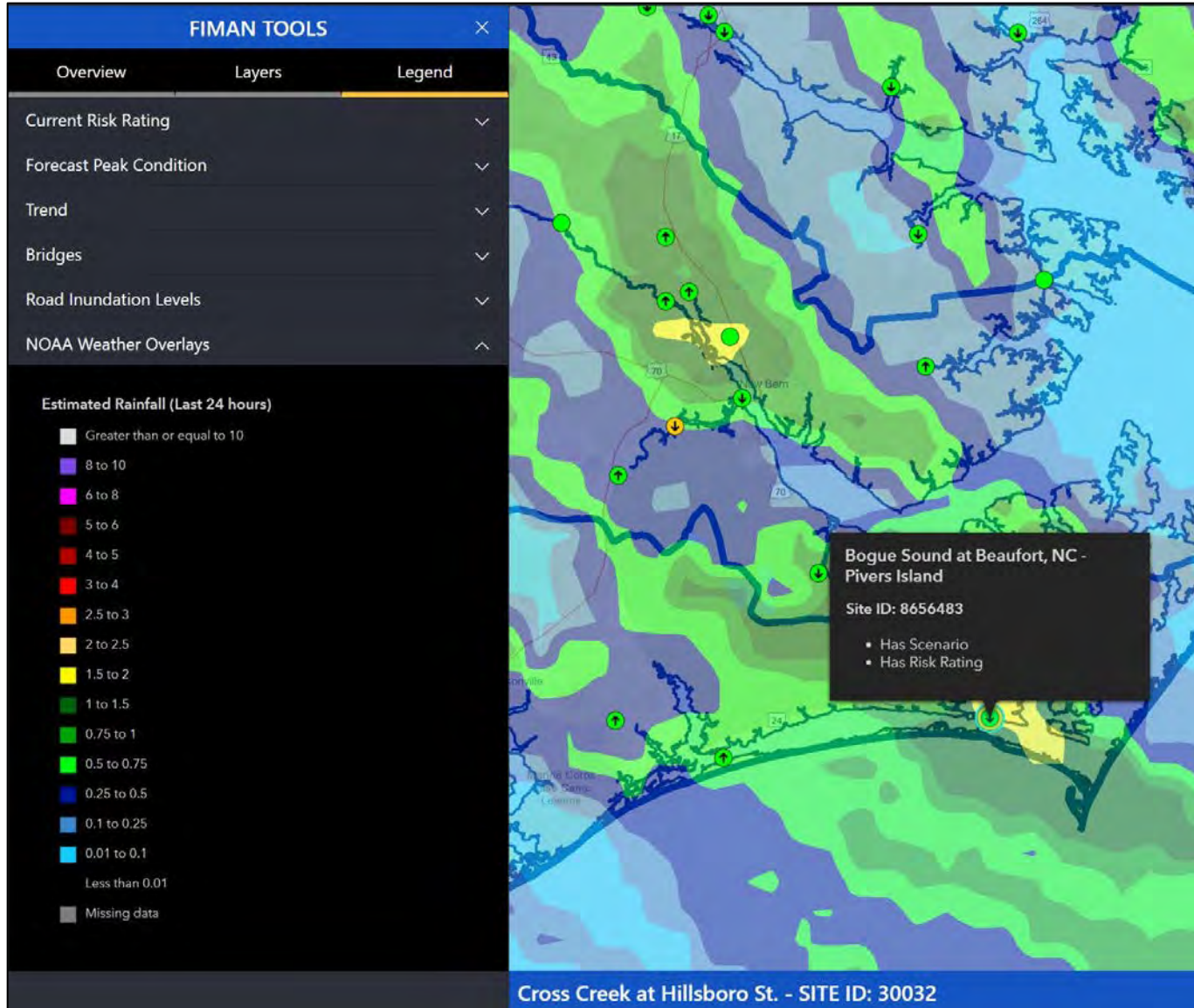
Go Clear

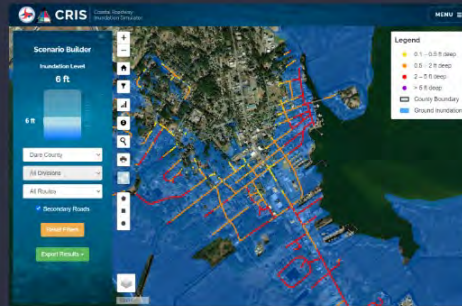
**Gauge Overview**

Current	Forecasted
<ul style="list-style-type: none"> <li>↑ Rising: 0</li> <li>● Constant: 0</li> <li>↓ Falling: 0</li> </ul>	
<ul style="list-style-type: none"> <li>↑ Rising: 0</li> <li>● Constant: 0</li> <li>↓ Falling: 0</li> </ul>	
<ul style="list-style-type: none"> <li>↑ Rising: 0</li> <li>● Constant: 0</li> <li>↓ Falling: 0</li> </ul>	
<ul style="list-style-type: none"> <li>↑ Rising: 3</li> <li>● Constant: 1</li> <li>↓ Falling: 2</li> </ul>	







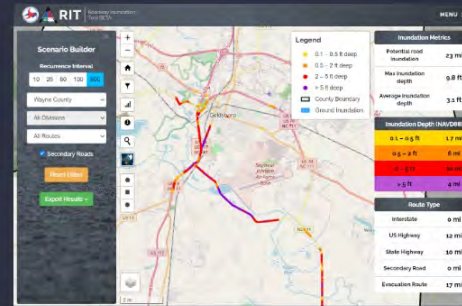


### COASTAL ROADWAY INUNDATION SIMULATOR (CRIS)

CRIS allows transportation planners and emergency managers to simulate predicted roadway inundation from coastal flooding and quantify potential effects of inundation. Inundation boundaries are derived from NC QL2 LiDAR data and are available up to 15ft (NAVD88). Users can simulate flooding on both primary and secondary roads and export results to a KML for further visualization. Simulations are limited to coastal counties only.

> OPEN APPLICATION

MENU ≡



### ROADWAY INUNDATION TOOL

This tool provides a high-level overview of the potential inundation effects from river crossings along primary routes. Each crossing leverages detailed hydraulic model data provided by NCEM to show water surface elevations for the 10, 25, 50, 100, and 500yr flood frequencies. This tool allows the user to see potential overtopping depths and flood effects at each primary road crossing and quantify potential effects.

> OPEN APPLICATION







# Advisory Flood Data Viewer

NCEM Advisory Flood Data | Hazards, Risk and Mitigation
Flood Risk Information System

### Advisory Flood Mission

The North Carolina Floodplain Mapping Program (NCFMP) has initiated the "Advisory Flood" studies approach to provide non-regulatory flood hazard mapping for previously unmapped portions of the state, and for areas beyond NCFMP's traditional regulatory floodplain mapping extents, to help support more citizens in their decision making processes to mitigate against flood hazards.


## Advisory Flood

### Advisory Flood Mitigation Application

The North Carolina Floodplain Mapping Program (NCFMP), performs flood hazard mapping studies that help inform, protect, and preserve the lives and properties of the citizens in North Carolina. Recent flooding events have shown that substantial flood risk can reside outside of NCFMP's traditional regulatory floodplain boundaries. NCFMP's Advisory Flood Data Website provides flood mapping visualizations and flood risk analyses in non-regulated Advisory Flood areas where these products were previously unavailable. Flood hazard information, risk assessments, and mitigation strategies are offered within this viewer as a tool to help create more resilient communities and reduce future losses due to flooding. The website provides an easy to use Interface to enable the user to assess a range of Advisory flooding scenarios, their associated flood risks, potential damages, and possible mitigation alternatives. In addition, areas of mitigation interests data are identified and communicated as a part of a study wide "hot spot" grid to pinpoint areas of concentrated Advisory Flood risk and potential locations for future mitigation actions. Regulatory floodplain information is provided as a static overlay within the Advisory Flood Data Website. Users that click within those regulatory overlay areas will be directed to NCFMP's FRIS website for higher level regulatory flood information.

### Contact

Advisory Flood Program  
Mailing Address  
4218 Mall Service Center Raleigh, NC  
27699-4218  
Phone: 919-715-5711  
Fax: 919-715-0408  
Email: [emf@ncemrhelp@ncdps.gov](mailto:emf@ncemrhelp@ncdps.gov)



[Launch Viewer](#)

### Contact

**North Carolina Emergency Management**

4218 Mall Service Center  
Raleigh, NC 27699-4218

**Phone: 919-715-5711**  
Fax: 919-715-0408  
Email: [emf@ncemrhelp@ncdps.gov](mailto:emf@ncemrhelp@ncdps.gov)

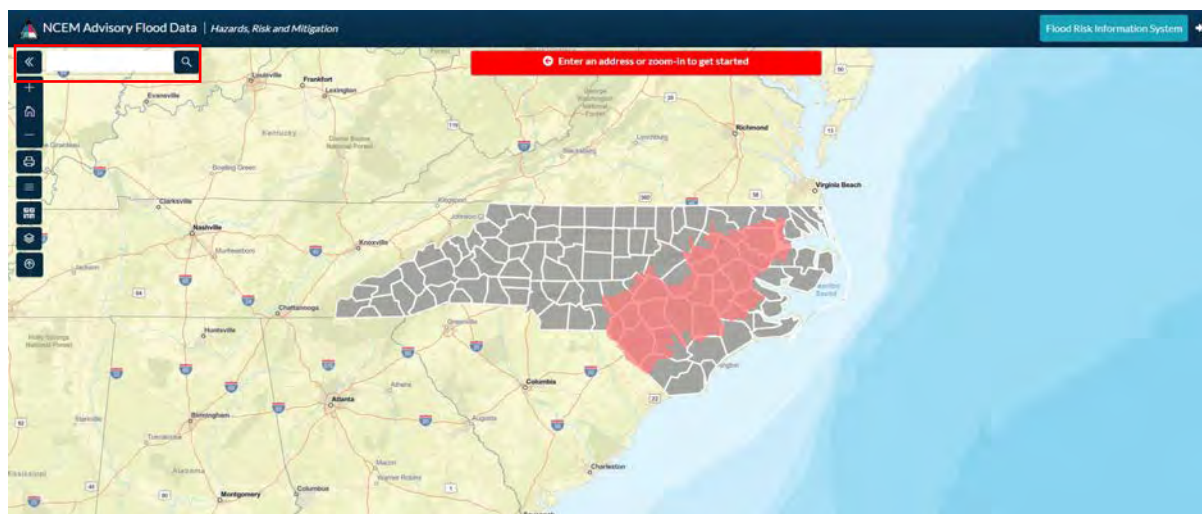
[ACCESSIBILITY](#)
[TERMS OF USE](#)
[PRIVACY POLICY](#)
[NC OPENBOOK](#)







## Advisory Flood Data Viewer



Using HEC-RAS 2D to Increase Flooding Awareness in Previously Unstudied Areas of NC and Identify Potential Mitigation Options



# Advisory Flood Data Viewer

NCEM Advisory Flood Data | Hazards, Risk and Mitigation

Flood Risk Information System

Goldsboro, NC, USA

Click a building for details

Select Flood Event Recurrence Interval  
1% Annual Chance

The screenshot displays a web-based interface for viewing flood risk data. At the top, there is a navigation bar with the text "NCEM Advisory Flood Data | Hazards, Risk and Mitigation" and a "Flood Risk Information System" button. Below this is a search bar containing "Goldsboro, NC, USA" and a search icon. A red banner with the text "Click a building for details" is positioned above the map. The map itself shows a residential area with streets labeled (e.g., Franklin St, Porter St, S Andrews Ave, Harris St, Hart Cir, Taylor St, S Clatsome St, S Beal St, S Taylor St, S Stephens St) and a blue-shaded area representing flood risk. A slider control is overlaid on the map, with the text "Select Flood Event Recurrence Interval" and "1% Annual Chance" above it. The slider has a circular handle and a red border.





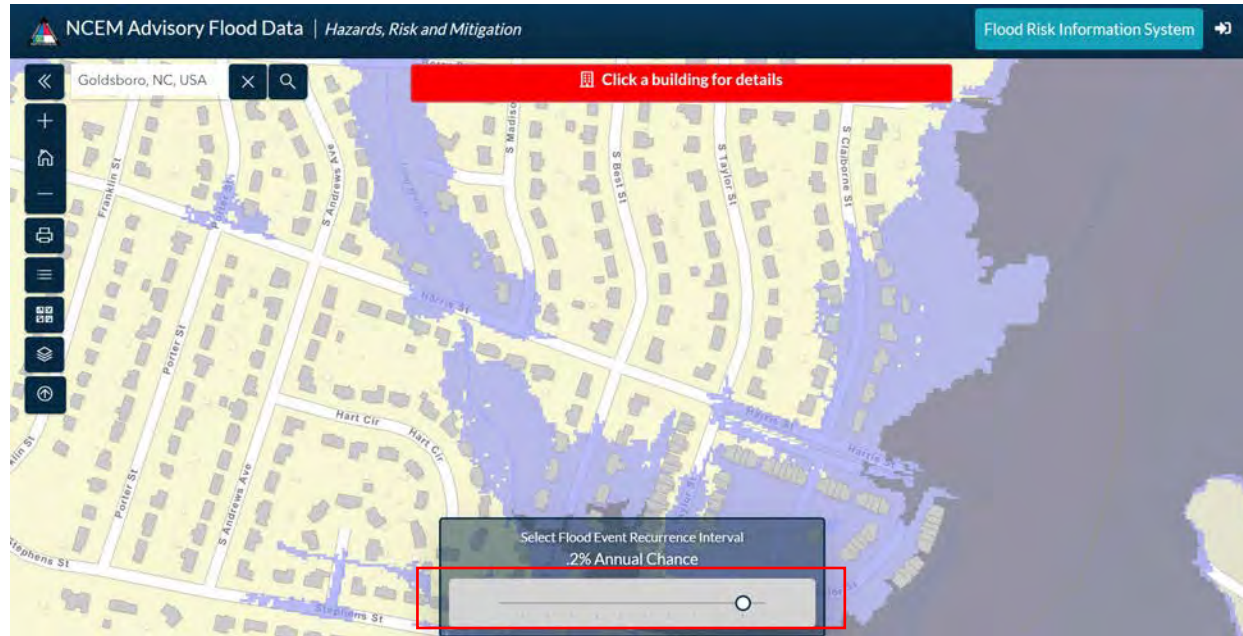
# Advisory Flood Data Viewer

The screenshot displays the NCEM Advisory Flood Data viewer interface. At the top, the title bar reads "NCEM Advisory Flood Data | Hazards, Risk and Mitigation" and "Flood Risk Information System". The main map area shows a residential neighborhood in Goldsboro, NC, with streets labeled such as Franklin St, Porter St, S Andrews Ave, S Best St, S Taylor St, S Garbore St, Hart Cir, and Harris St. A red banner at the top of the map area says "Click a building for details". A search bar at the top left contains "Goldsboro, NC, USA". On the left side, there is a vertical toolbar with navigation icons. A dialog box is open in the lower center of the map, titled "Select Flood Event Recurrence Interval" with a dropdown menu currently set to ".5% Annual Chance".





# Advisory Flood Data Viewer





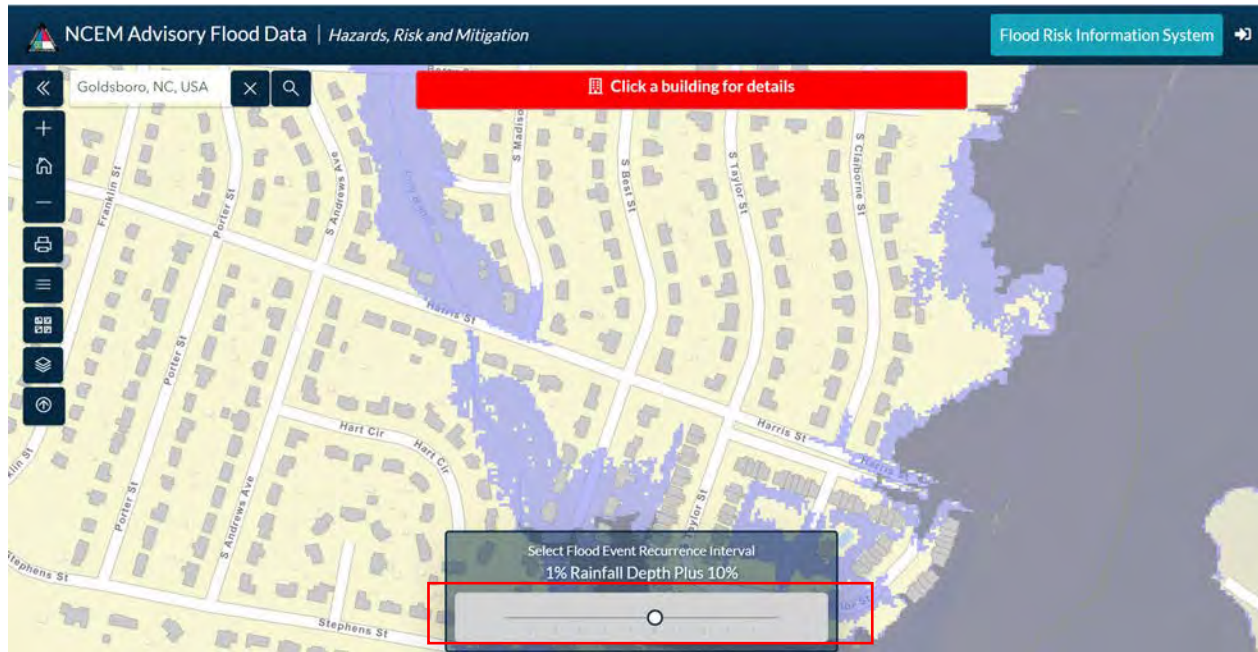
# Advisory Flood Data Viewer

The screenshot displays the NCEM Advisory Flood Data viewer interface. At the top, the title bar reads "NCEM Advisory Flood Data | Hazards, Risk and Mitigation" and "Flood Risk Information System". The main map area shows a residential neighborhood in Goldsboro, NC, with streets labeled such as S Andrews Ave, S Taylor St, S Clatsone St, S Beal St, S Madison, S Hart Cir, S Porter St, S Stephens Ave, and S Stephens St. A blue shaded area represents the flood extent, with a label "Initial Extent" pointing to it. A red banner at the top of the map area says "Click a building for details". On the left side, there is a vertical toolbar with icons for navigation and map controls. At the bottom center, a control panel is visible with the text "Select Flood Event Recurrence Interval" and ".1% Annual Chance", accompanied by a slider control.





# Advisory Flood Data Viewer







Advisory Flood Hazard Data Water Surface Elevation Information ✕

Goldsboro, North Carolina  
Mosley Creek-Neuse River

Event	Elevation <sup>1</sup>
20% Annual Chance (5-Year Flood)	81.1
10% Annual Chance (10-Year Flood)	82
4% Annual Chance (25-Year Flood)	82.6
2% Annual Chance (50-Year Flood)	82.9
1% Annual Chance (100-Year Flood)	83.3
1% Rainfall Depth Plus (100-Year Flood (Upper Confidence Bound))	83.5
1% Rainfall Depth Plus 10% (Median 1% Annual Chance Rainfall Depth plus 10%)	83.5
1% Rainfall Depth Plus 20% (Median 1% Annual Chance Rainfall Depth plus 20%)	83.6
1% Rainfall Depth Plus 30% (Median 1% Annual Chance Rainfall Depth plus 30%)	83.8
.5% Annual Chance (200-Year Flood)	83.6
.2% Annual Chance (500-Year Flood)	84
.1% Annual Chance (1000-Year Flood)	84.4

<sup>1</sup> Water surface elevations in feet (NAVD88)

Possible Mitigation Techniques:

- Wet floodproofing

There are 2 structures potentially affected in this area with projected damages totaling **\$14,727** for a 30 year time horizon and **\$24,545** for a 50 year time horizon. With mitigation measures in place **\$10,309** in flood losses avoided could be achieved over 30 years and **\$10,309** over 50 years.

[Basin Report](#)

For other data resources visit North Carolina's Spatial Data Download [website](#).

Close







## Low Cost Flood Inundation Sensor Test Site

- Partnering with NC A+T State University (Geomatics)
- Project funding provided by:
  - UNC –CH North Carolina Policy Collaboratory





# Adopt a Gauge

## Adopt a Gauge

North Carolina's network of more than 500 river, stream and coastal gauges provides data that empowers flood warning for local communities and the public.

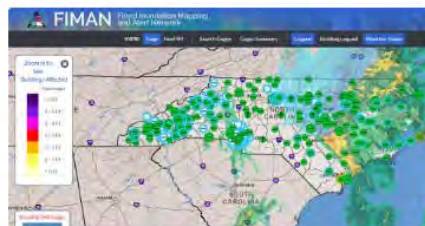


Data from these gauges drives the Flood Inundation Mapping and Alert Network (FIMAN) which is designed reduce the loss of life and flood related property damage by providing timely, detailed, and accurate flood inundation information to government officials and the public. For FIMAN to provide timely and accurate information, data from these gauges must be obtained 24 hours a day, seven days a week with no interruptions.

Gauge maintenance is critical to being able to provide continuous data to community officials and the public. North Carolina Emergency Management has created the Adopt a Gauge (AaG) program to partner with local officials to insure that gauges are operational and to notify NCEM when a gauge needs repair.

[Submit a gauge report →](#)

The Adopt a Gauge program allows a county or local government to adopt the gauges in their community and serve as eyes on the ground for those gauges. Adopt A Gauge partners regularly check the status of their assigned gauge sites, reporting problems (debris buildup, damage, theft) or simply reporting that the gauge is in good condition. While we have online monitoring tools having eyes in the field can aid in initially assessing any issues with a site.



Risk Management

Adopt a Gauge

[Adopt a Gauge - Reporting](#)





# Adopt a Gauge Reporting

[NC DPS](#) » [Our Organization](#) » [Emergency Management](#) » [Risk Management](#) » [Adopt a Gauge - Reporting](#)

## Adopt a Gauge - Reporting

Risk Management

[Adopt a Gauge](#)

[Adopt a Gauge - Reporting](#)

Thank you for participating in Adopt a Gauge!  
Enter observations from your gauge site visits here.

Name \*

Phone number \*

E-mail address \*

Date of inspection \*

Month	▼	Day	▼	Year	▼	
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County \*

Notes on gauge condition \*

Is gauge in good operating condition? If not, please describe any damages, defects or issues.

Submit





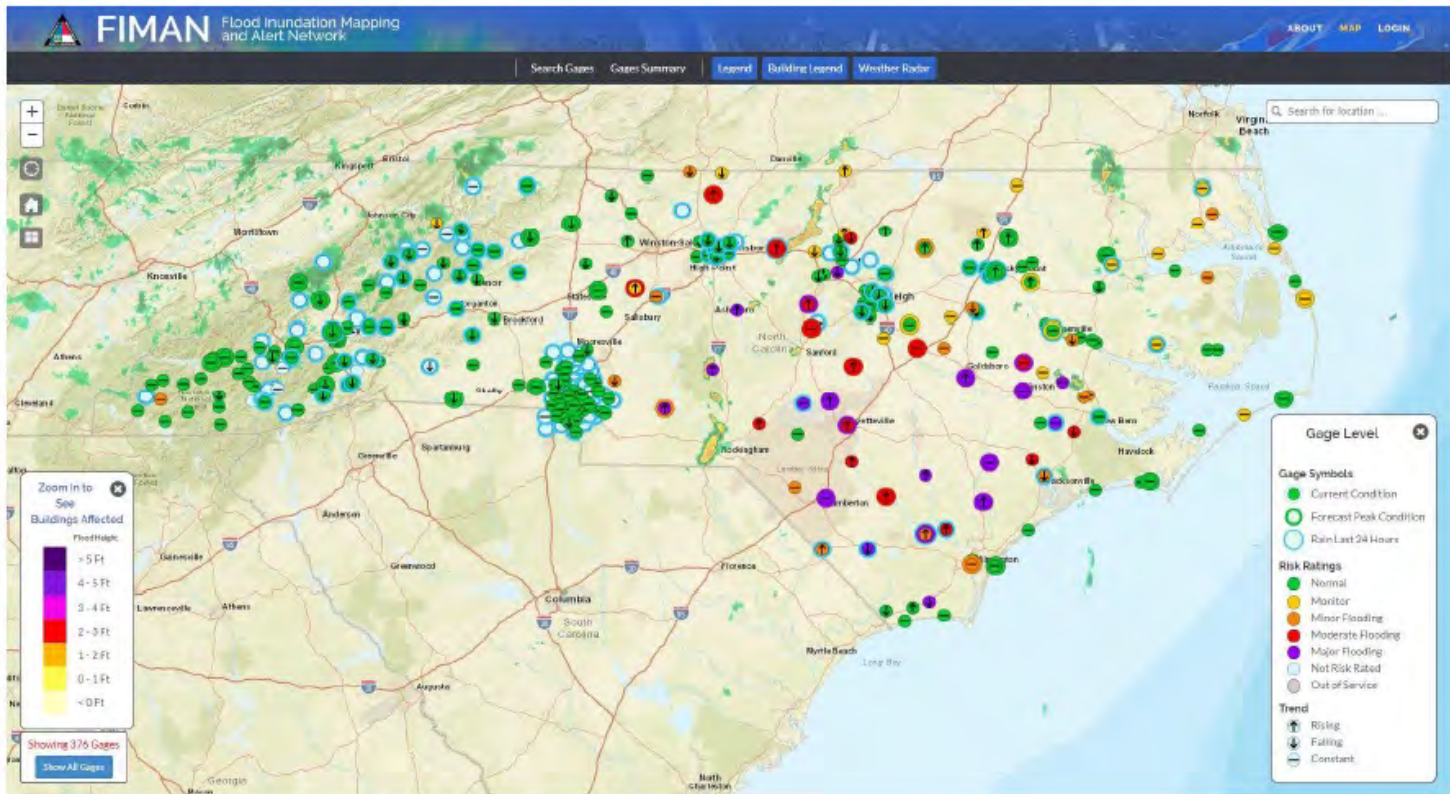
# High Water Marks Collected in Western North Carolina (August 2021)





9/17/18

FIMAN Current and Forecast Conditions - Hurricane Florence - 9/17/2018 4:31 PM





## Questions?

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