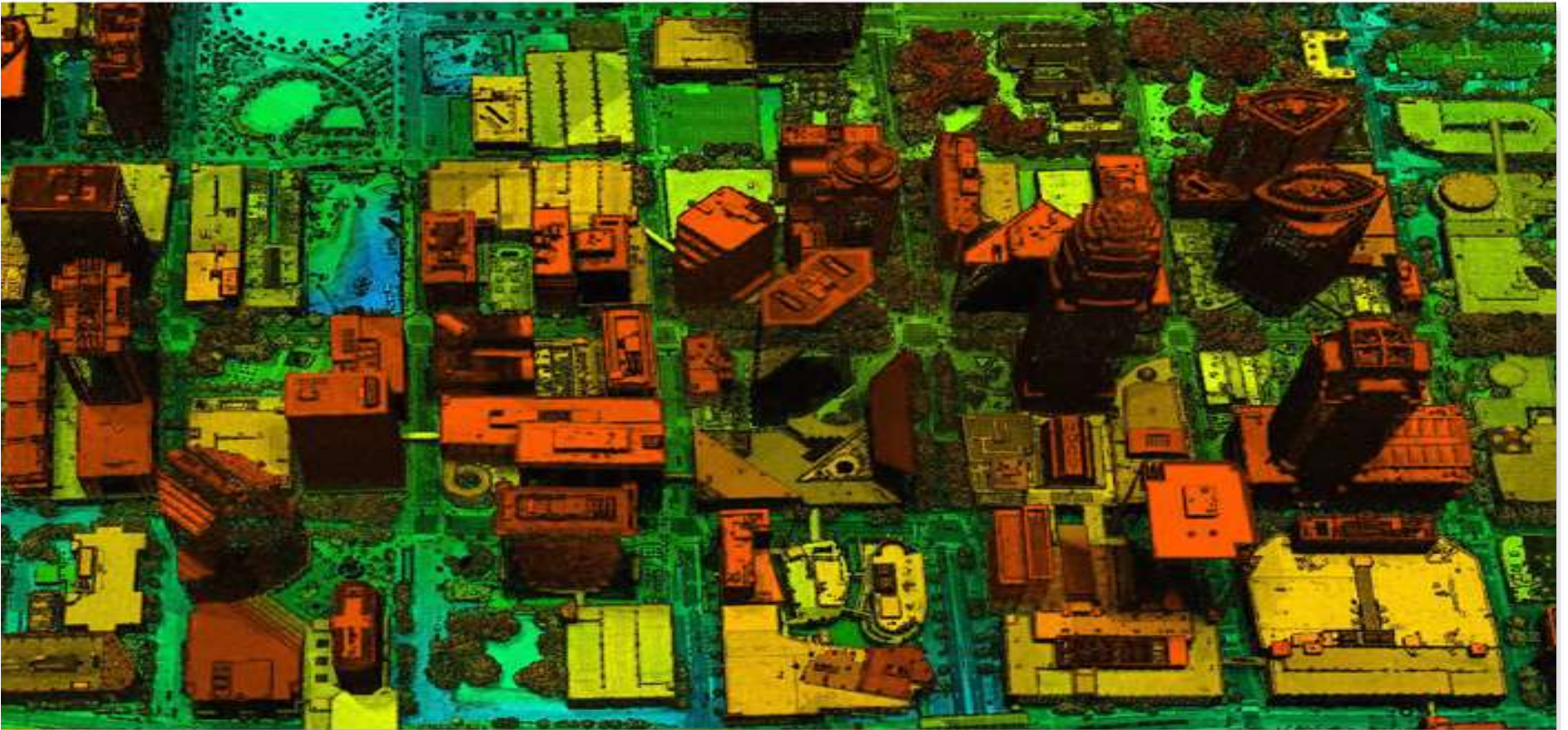


North Carolina Floodplain Mapping Program
North Carolina Risk Management Office
Tonda Shelton
Tonda.Shelton@NCDPS.gov



Overview

- Flood Risk Information Systems
- [FRIS.NC.Gov/FRIS](#)
- [Flood.NC.Gov](#)
- [FIMAN.NC.Gov](#)

FRIS

FLOOD RISK INFORMATION SYSTEMS

FLOOD RISK INFORMATION SYSTEM

[FRIS.NC.GOV/FRIS](https://fris.nc.gov/fris)



FRIS

North Carolina Flood Risk Information System

[Download](#)

Am I at risk of flooding?

General Public 

Enter all or part of your address and click GO.

Address, City, or ZIP

GO

OR select a county

Watauga

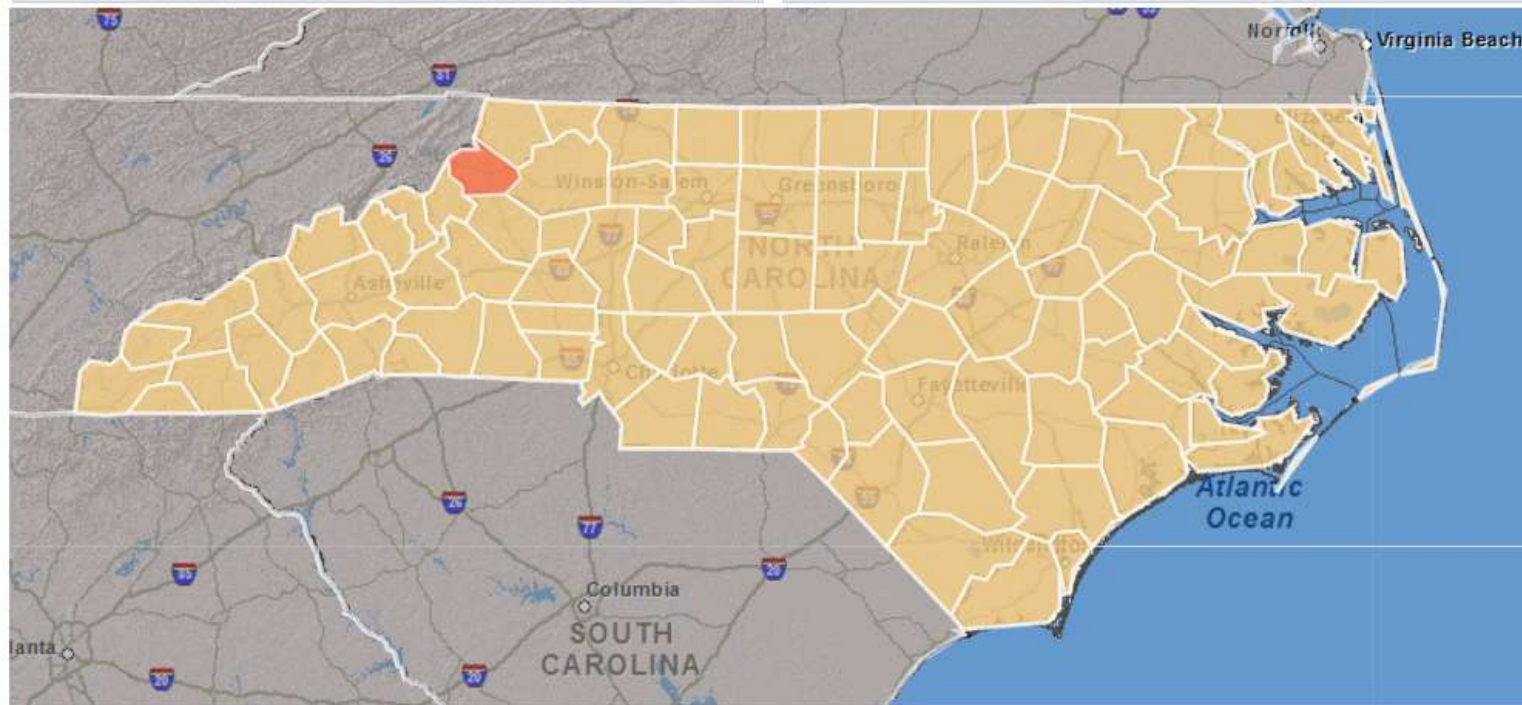
Watauga, North Carolina



Benefits of Floodplain Mapping

Floods are among the most frequent and costly natural disasters in terms of human hardship and economic loss. North Carolina's Digital Flood Insurance Rate Maps (DFIRM) enable business leaders and residents to more accurately predict flood hazards and prepare for flood risks.

Go to [NC Floodmaps](#) for more information.





Who Am I: Advanced

Effective

Flood Information

Click the map to view information.

Map Location

Flood Zone: AE

Flood Source: East Tarboro Canal

Base Flood Elevation: 45.5 ft

Vertical Datum: NAVD88

County: Edgecombe

Political Area: Town of Tarboro

Jurisdiction: Town of Tarboro

CID: 370094

Panel: 4738

Map Number: 3720473800J

Effective Date: 11/03/04

Latitude: 35.9011

Longitude: -77.52674

Impacted Structure

Parcel ID: 473866313400

Intersecting Flood Zone: AE

Legend

Flood Hazard Area

- FLOODWAY
- ZONE AE
- ZONE VE
- ZONE AO
- ZONE A
- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD

Risk Information

Financial Vulnerability

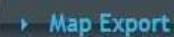
FIS Reports

Flood Risk Management Plan

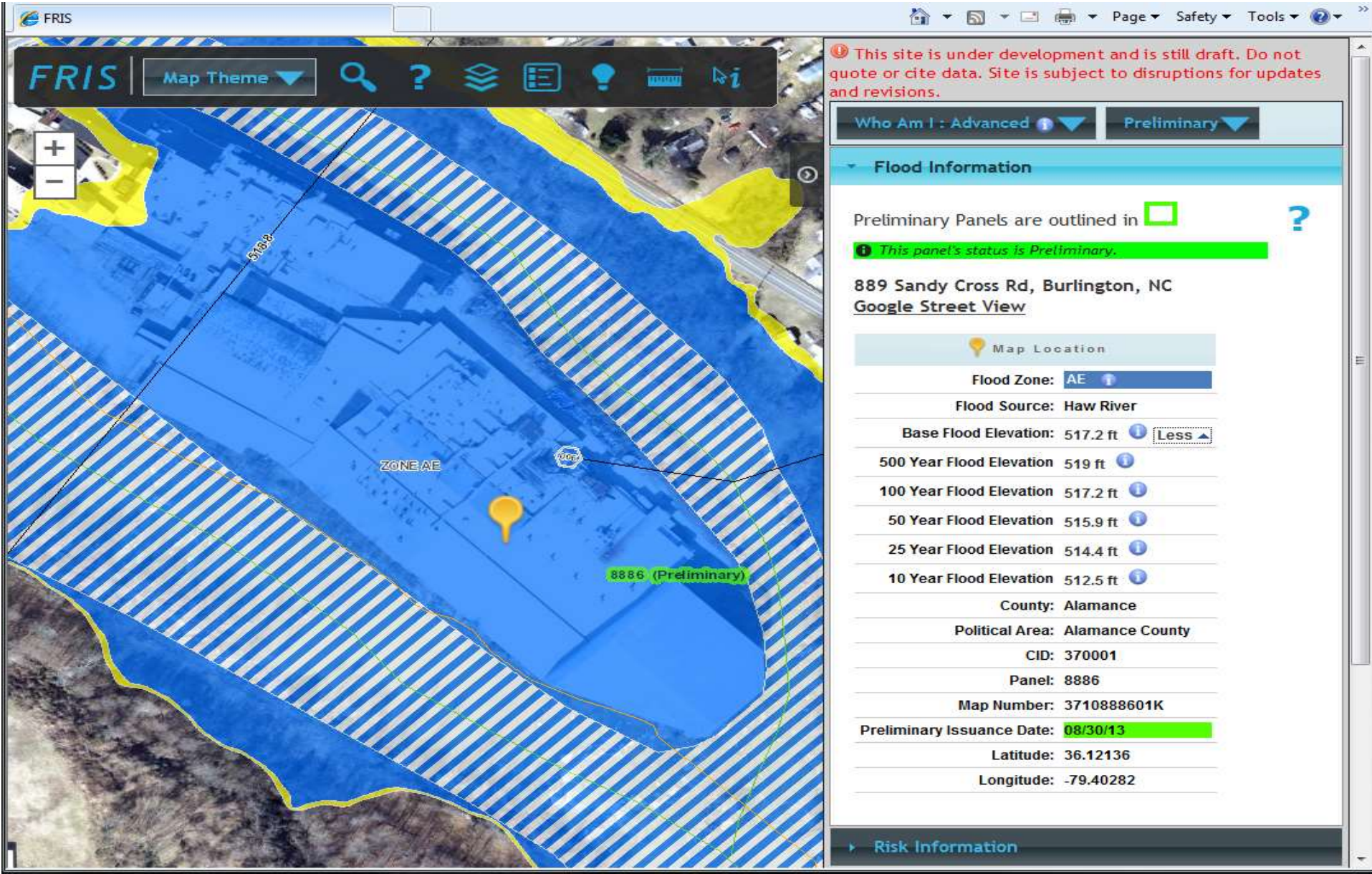
Engineering Models

Map Export

Data Export










Base Year Elevations



FRIS Reduce My Risk

FRIS

Change Map



Mitigation

This table shows mitigation options that reduce your risk from this hazard. Estimated costs for each option were used to calculate cost effectiveness (CE).

To recalculate the CE, click the calculator to the left of each option and revise the costs based on local conditions.








For more information on options and calculations, click the ?.

Building Value

\$107159

Square Footage

1584

Risk Reduction Option	Cost	Cost Effectiveness
 Elevation	\$45,936	0.55
 Relocation	\$106,128	0.83
 Dry Floodproofing	N/A	N/A
 Wet Floodproofing	\$4,594	4.05
 Levees & Floodwalls	N/A	N/A
 Mitigation Reconstruction	\$188,496	0.13
 Utility Elevation	\$12,000	1.05

Print

Who Am I : General Public

Effective

Flood Information

Risk Information

Click a building to view information.

904 E Church St
Tarboro, NC 27886

Google Street View

iRISK

Property

Building Value (\$):

107159

Stories:

1

Square Feet (ft):

1584

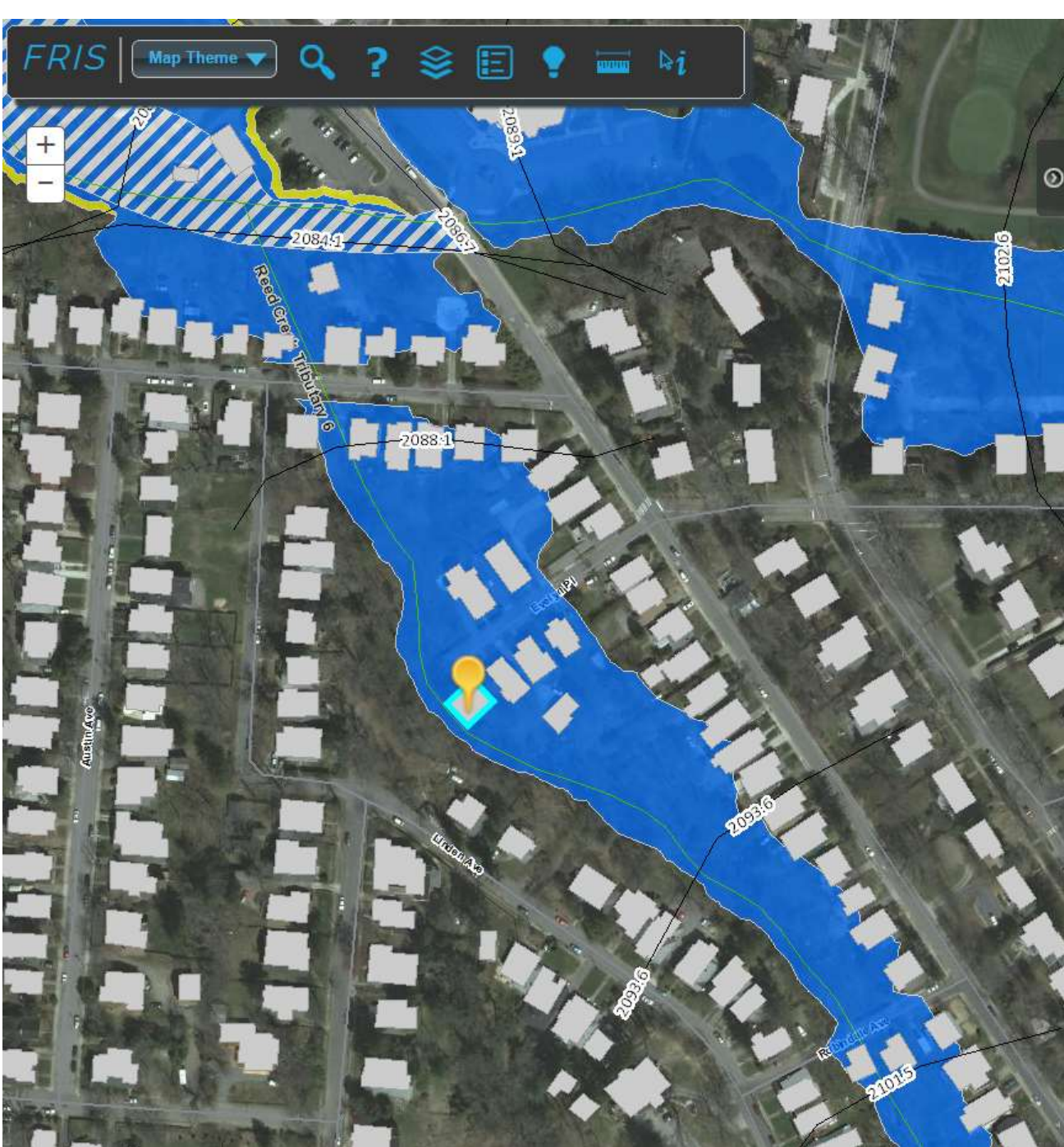
Foundation:

Crawl Space

Recalculate

Annual Chance of Flood	Depth Above Finished Floor (in feet)	Damage	Building Losses
10 %	N/A	0%	N/A
4 %	-2.3	1%	\$1,115
2 %	-0.7	3%	\$3,613
1 %	1.0	14%	\$15,387
.2 %	5.4	37%	\$41,611

Reduce My Risk



Who Am I : General Public

Effective

Flood Information

Risk Information

Financial Vulnerability

Flood Insurance

Insurance Premium Estimate

Monthly Premium: \$48 - \$73

Yearly Premium: \$580 - \$880

Estimate Details

Click the *Estimate Details* button to learn more about your insurance estimate.

Flood Insurance premium estimates are not a guarantee of actual rates. For more information, please contact your agent or visit www.floodsmart.gov

FIS Reports

Map Export


Data Export



FRIS Data Downloads


FRIS

Flood Risk Information System



[Home](#)[Data Download](#)[About FRIS](#)


[View Interactive Map](#)

**Data Search**

County:

DFIRM:

Stream:

 Select a DFIRM Panel to view additional datasets.
Select a stream to see Engineering Models.

Statewide Datasets


[DFIRM Panel Shapefile](#)
[NCFMP Geodatabase Dictionary](#)
[LIDAR Metadata](#)

Edgecombe County

[Personal Geodatabase](#)
[LIDAR DEM 50](#)
[LIDAR DEM 20](#)
[LIDAR Bare Earth](#)
[FIS Report](#)
[Preliminary FIS Report](#)

DFIRM: Panel 4746

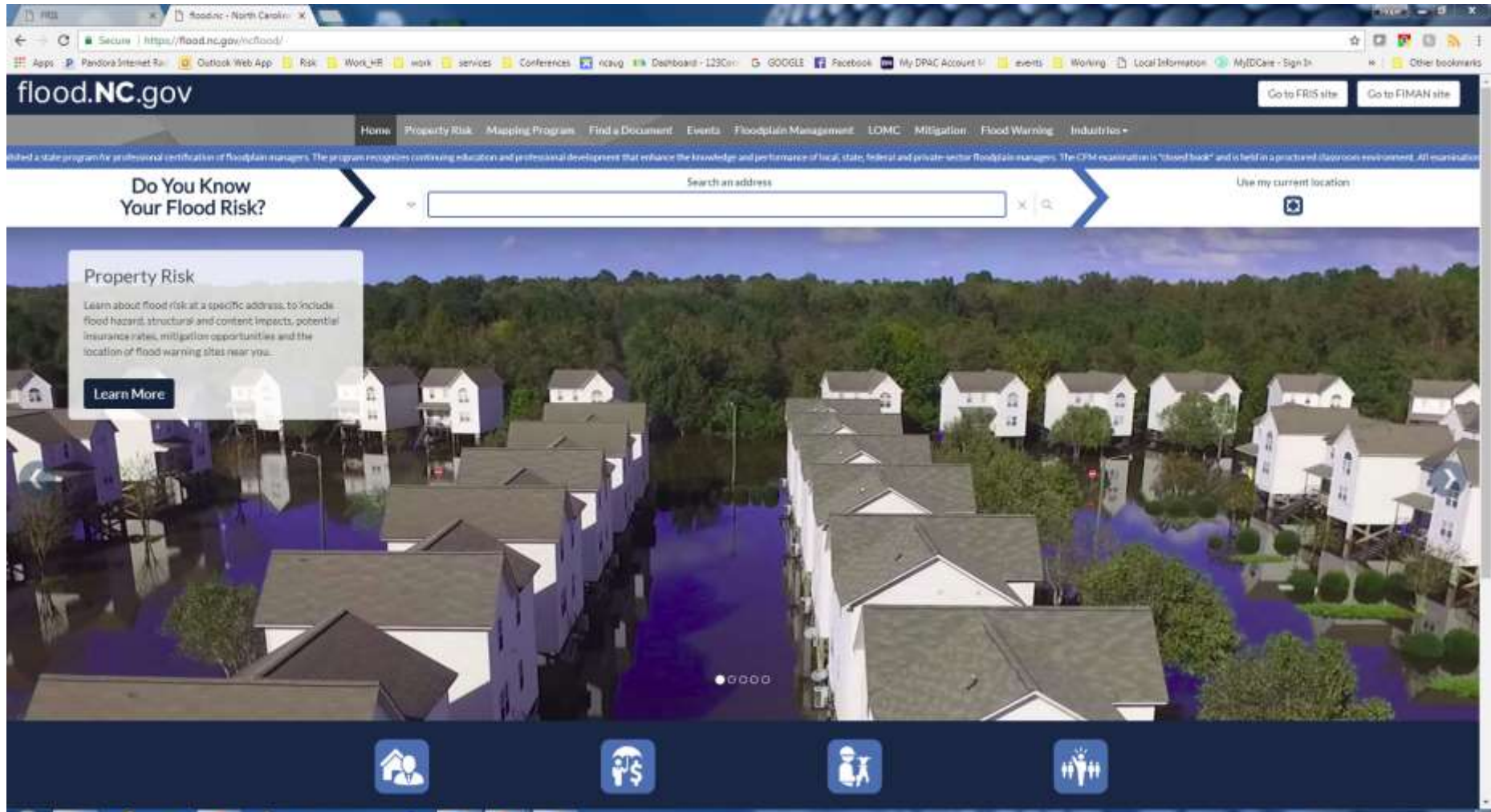
Engineering Models

 Click the Model name to download the .zip file.

Model	Start	End	Study Type
Savage Mill Run Model	Approximately 458 feet downstream of Mill Pond Road	Approximately 1.1 miles upstream of Mill Pond Road	LIMITED DETAILED STUDY

FLOOD.NC.GOV

Flood.nc.gov



Flo

Base Flood Elev.

45.5 ft

Polit

To

Map Panel

4738

Floo

Es

For more detailed informat

Understa

Property Flood probability values determined based on estimates of building first floor elevations, multiple flood frequency analysis and other data. Flood impacts and probabilities may vary based on local conditions and storm intensity.

Building Information

Estimated Replacement Values¹

Building Value

\$82,152

Content Value

\$30,259

Heated Sq. Ft.

1,200

Number of Stories

2 or more

Foundation Type

No Basement

Occupancy Type

Single Family Dwelling

1: Building and Content replacement values are estimates based on available information as necessary based on best available information. For locations selected that require a calculation form. Please adjust values as necessary.

Impact Simulator

Adjust settings and information to refine flood impact

Building Information

Base Flood Elev.

45.50

First Floor Elev.

40.68

Number of Stories

More than 1 Floor

Foundation Type

No Basement

Occupancy Type

Single Family Dwelling

☒ Building built after 01/05/1978?

Coverage Options

Adjust settings and information to refine insurance coverage options for the selected property.

Building Coverage

\$37,800

Contents Coverage

\$18,900

Building / Contents Deductible

\$1,500 / \$1,500

CRS Discount (based on NFIP CRS class)

15%

as Annual CRS Discount (Town Of Tarboro)

\$516

Estimated Impact/C

Note: Building and Content Damages are based on FEMA and US Army Corps of Engineers Depth-Damage Curves and represent average building characteristics. Individual damage may vary with flood severity and structure / content characteristics. In addition, some structures may report damages below the first floor elevation based on utilities and other building components. Negative flood depths report flood levels below the first finished floor.

Estimated Premium

Flood Insurance premium estimates are not a guarantee of actual rates. Rates are estimated based on the November 2015 FEMA NFIP rate guidance. For more information, please contact your agent or visit www.floodsmart.gov

Annual

\$3,660 - \$5,490

Monthly

\$305 - \$458

Flood.nc.gov- Property Mapping

North Carolina Emergency Management has developed an online application (FIMAN) to provide citizens with near real time flood inundation, impacts and alerting for selected areas of the state. Within the FIMAN application, users can sign up for alerts if current or forecasted conditions reach flood levels.

Please use the slider bar below to adjust the reach distance from your selected location for available flood inundation and warning sites. For more information about each site, click on the site name and you will be redirected to the FIMAN site.

There are 16 flood alert gages within 25 miles of you.

Adjust Search Radius (miles)



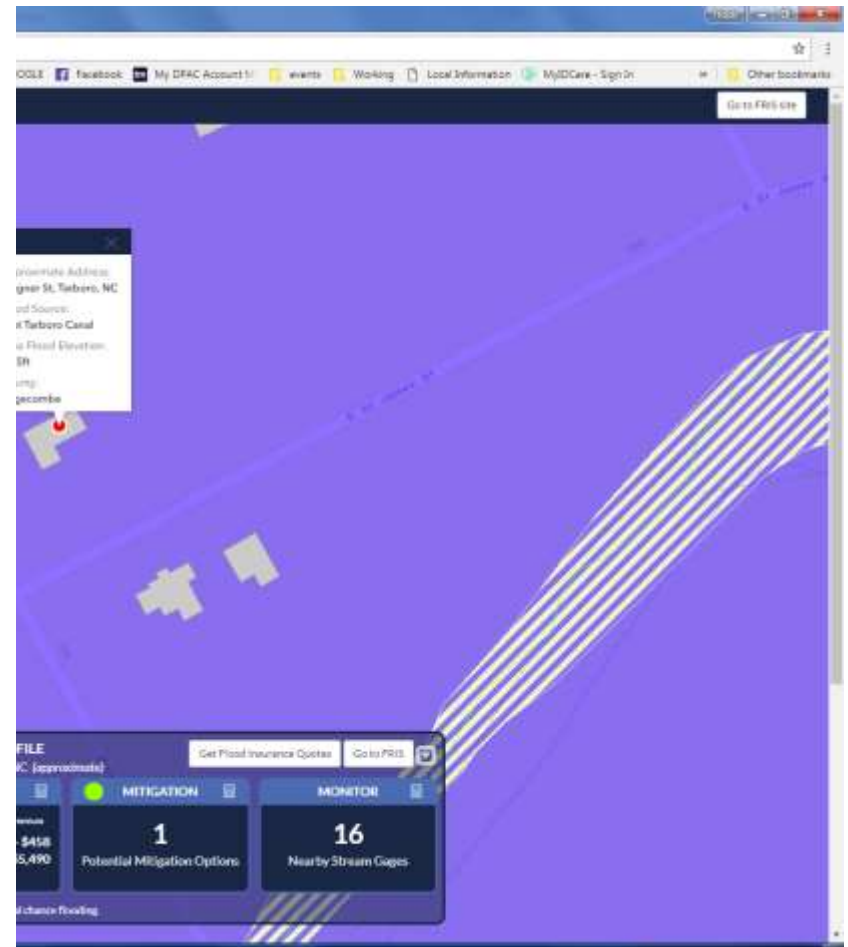
Results (ordered by proximity)

Click gage below to open in FIMAN

- Tar River at Tarboro
- Swift Cr. at 97 Nr. Leggett
- Fishing Cr at 97 near Leggett
- Town Creek at Us 258 near Pinetops
- Tar River at 97 at Rocky Mount
- Tar River at Us 301 Bypass at Rocky Mount
- Tar River at Us 264 Bypass near Rock Springs
- Stony Cr. at Winstead Ave. Rocky Mount
- Fishing Creek near Enfield
- Tar River at Greenville
- Hominy Swamp at Forest Hills Rd near Wilson
- Swift Creek at Hilliardston
- Little Fishing Cr nr White Oak
- Chicod Cr at SR1760 near Simpson
- Tar River at SR 1565 near Grimesland
- Tranters Cr. at Clarks Neck Rd. nr Washington

Legend

- Normal
- Monitor
- Minor Flooding
- Moderate Flooding
- Major Flooding



Flood.nc.gov- Mapping Program

Browser window showing the **flood.NC.gov** Mapping Program interface.


Navigation Bar: Home | Property Risk | **Mapping Program** | Find a Document | Events | Floodplain Management | LOMC | Mitigation | Flood Warning | Industries +

County Status

This map shows the current status of all active flood insurance studies throughout the state. Counties shown here are in the various stages of mapping including discovery, engineering analysis, floodplain mapping, preliminary and effective.

Click a county on the map to view the status information.

[View Full Map in ArcGIS](#)



Documents and Information

Fact Sheets	Flood Insurance Rate Maps	Letters of Map Change	Discovery	Data Download	Issue Papers
Brief informational documents on commonly asked questions about the mapping program, insurance and mitigation.	Flood Insurance Rate Maps (FIRMs) are the primary tool for state and local governments to mitigate areas of flooding. Learn More	Letters issued by FEMA that revise or amend the flood hazard information.	Document supporting NCFMPs discovery process to identify and prioritize future floodplain studies.	Find and download GIS, Elevation and LIDAR data using the NC Spatial Data Download Portal.	Click here to view various Issue Paper documents developed by the mapping program.
View Documents	View Maps	View Letters	View Documents	Open Website	View Documents

Meetings and Training

Flood.nc.gov- Documents

Browser window showing the Flood.nc.gov Document Center. The URL is https://flood.nc.gov/ncflood/documentcenter.html. The page features a navigation bar with links like Home, Property Risk, Mapping Program, Find a Document, Events, Floodplain Management, LOMC, Mitigation, Flood Warning, and Industries. The main heading is "Document Center". Below it, a paragraph explains the program's purpose: "The North Carolina Floodplain Mapping Program will use this website for storage and dissemination of various documents for use in education, outreach and various technical uses for floodplain management. The Document Center provides users online tools for searching, filtering, viewing and downloading various types of documents including Letters of Map Change (LOMC), Technical Issue Papers developed by the program, National Flood Insurance Program information (NFIP), Meeting documentation and information, FAQs as well as regulatory information for preliminary and effective flood studies."

Begin your selection below by selecting a document type below

Document Type: NFIP [Reset]

Search for documents...

Image showing a stack of documents, including a map and a certificate.

Title	Project Description	File
MF-2 LOMC Form	Fee Schedule for Processing Requests for Map Changes, for Flood Insurance Study Backup Data, and for National Flood Insurance Program Map and Insurance Products	
Model Ordinance (Coastal)	2017 North Carolina Coastal Model Ordinance	
Model Ordinance (Non-Coastal)	2017 North Carolina Non-Coastal Model Ordinance	
National Flood Insurance Program Coastal Flood Hazard Analysis	Description of differences between existing effective and preliminary coastal analysis and mapping	
FEHA Elevation Certificate	FEHA National Flood Insurance Program Elevation Certificate and instructions	
Executive Order 11888	Executive Order 11888 - Floodplain Management	
Executive Order 123	Uniform Floodplain Management Policy	
NC No Risk Guidance Document	This document provides guidance to engineers, planners, and community officials for the preparation and review of No Risk Certificates needed to demonstrate compliance with NFIP regulations for encroachments within floodways and non-encroachment areas.	

Flood.nc.gov- Events

Home Property Risk Mapping Program Find a Document **Events** Floodplain Management LOMC Mitigation Flood Warning Industries +

Manager Certification The North Carolina Association of Floodplain Managers has established a state program for professional certification of floodplain managers. The program recognizes continuing education and professional development that enhance the knowledge and performance of local, state, federal and private sector floodplain managers. The CPM examines

Meetings, Trainings and Events

County/Community:

Audience Type:

After the following date:

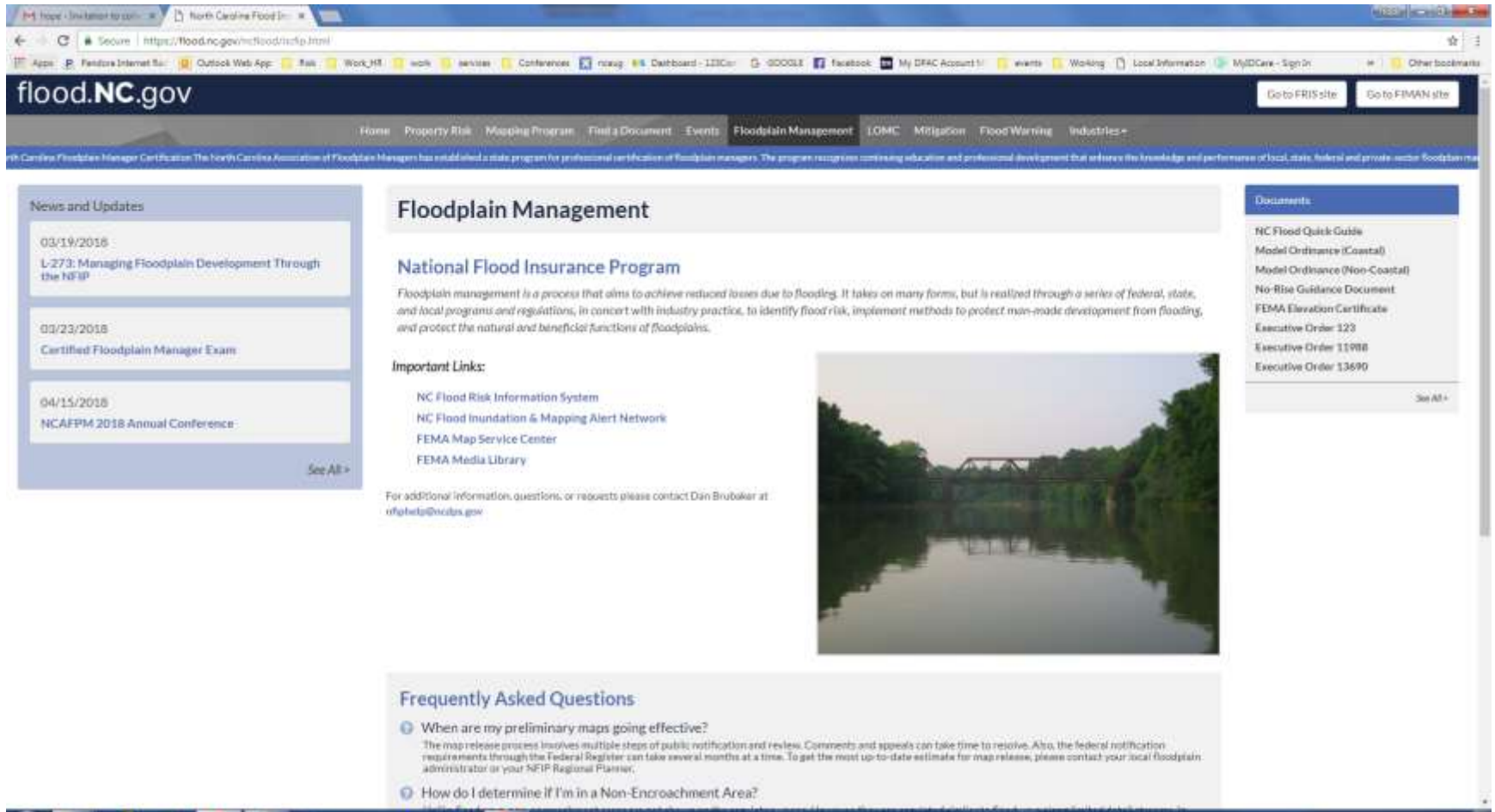
Title	Start Date	End Date	Location	URL	Description
Floodplain Administrators Workshop (NC-FPA-101) Central Region	09/14/2018		1636 Gold Star Drive, Raleigh NC 27607	Link	This is a free one day course is geared towards local government employees responsible for floodplain management but who have little or no training and formal education in the field of floodplain management and/or the National Flood Insurance Program. Workshop topics include the basic information any individual new to the position may need to effectively perform their floodplain administrative duties. Topics are a basic introduction to the field describing the Duties of a Floodplain Administrator, Preparing for a Community Assistance Visit (CAV), Available Training for FPA's, Basic Insurance Information, How to Access the New Flood Risk Information System (FRIS), Building Codes - How they contrast and compare with NFIP regulations and The Basic Tie-ins with Mitigation Planning & Projects involving Floodplain Management.
Floodplain Administrators Workshop (NC-FPA-101) Western Region	09/01/2018		Carroll Community College-Watauga Campus Building W141 (Occupational Training Facility) Room 105-372 Community College One Boone NC 28607	Link	This is a free one day course is geared towards local government employees responsible for floodplain management but who have little or no training and formal education in the field of floodplain management and/or the National Flood Insurance Program. Workshop topics include the basic information any individual new to the position may need to effectively perform their floodplain administrative duties. Topics are a basic introduction to the field describing the Duties of a Floodplain Administrator, Preparing for a Community Assistance Visit (CAV), Available Training for FPA's, Basic Insurance Information, How to Access the New Flood Risk Information System (FRIS), Building Codes - How they contrast and compare with NFIP regulations and The Basic Tie-ins with Mitigation Planning & Projects involving Floodplain Management.
NCAPFM 2018 Annual Conference	04/13/2018	04/13/2018	Hilton Wilmington Riverside 301 N Water Street Wilmington, NC 28401	Link	The North Carolina Association of Floodplain Managers holds two conferences each year: a spring Annual Conference, typically in April or May on the East coast; and a Fall Floodplain Institute in October or November in the mountains of North Carolina. Both conferences provide opportunities to attend workshops and presentations, take the Certified Floodplain Manager exam, and mingle with your fellow floodplain managers. http://www.ncapfm.org/annual_conf.html
Certified Floodplain Manager Exam (CPM-001)	04/18/2018		Hilton Wilmington Riverside 301 N Water Street Wilmington, NC 28401		North Carolina Floodplain Manager Certification The North Carolina Association of Floodplain Managers has established a state program for professional certification of floodplain managers. The program recognizes continuing education and professional development that enhance the knowledge and performance of local, state, federal and private sector floodplain managers. The CPM examination is "closed book" and is held in a proctored classroom environment. All examinations will be proctored and the results will be held in strict confidence. NCAPFM requires that 70% of the answers be correct in order to earn a passing grade. Please see link for more information

1 2

Contact

NC Floodplain Mapping Program 4218 Mail Service Center Phone: 919-715-5711

Flood.nc.gov- Floodplain Management



The screenshot displays the flood.nc.gov website. The header includes the site logo, navigation links (Home, Property Risk, Mapping Program, Find a Document, Events, Floodplain Management, LOMC, Mitigation, Flood Warning, Industries), and buttons for FRIS and FIMAN sites. A sidebar on the left lists 'News and Updates' with dates and topics like 'Managing Floodplain Development Through the NFIP' and 'Certified Floodplain Manager Exam'. The main content area features a 'Floodplain Management' section with a description of the National Flood Insurance Program, a list of 'Important Links' (NC Flood Risk Information System, NC Flood Inundation & Mapping Alert Network, FEMA Map Service Center, FEMA Media Library), and a 'Frequently Asked Questions' section. A right sidebar lists 'Documents' such as 'NC Flood Quick Guide' and 'Model Ordinance'. A large image of a bridge over a river is also present.

flood.NC.gov

Home Property Risk Mapping Program Find a Document Events **Floodplain Management** LOMC Mitigation Flood Warning Industries

Go to FRIS site Go to FIMAN site

North Carolina Floodplain Manager Certification: The North Carolina Association of Floodplain Managers has established a state program for professional certification of floodplain managers. The program recognizes continuing education and professional development that enhances the knowledge and performance of local, state, federal and private sector floodplain managers.

News and Updates

03/19/2018
L-273: Managing Floodplain Development Through the NFIP

03/23/2018
Certified Floodplain Manager Exam

04/15/2018
NCAFFPM 2018 Annual Conference

[See All >](#)

Floodplain Management

National Flood Insurance Program

Floodplain management is a process that aims to achieve reduced losses due to flooding. It takes on many forms, but is realized through a series of federal, state, and local programs and regulations, in concert with industry practice, to identify flood risk, implement methods to protect man-made development from flooding, and protect the natural and beneficial functions of floodplains.

Important Links:

- [NC Flood Risk Information System](#)
- [NC Flood Inundation & Mapping Alert Network](#)
- [FEMA Map Service Center](#)
- [FEMA Media Library](#)

For additional information, questions, or requests please contact Dan Brubaker at nfiphelp@ncdps.gov


Frequently Asked Questions

- When are my preliminary maps going effective?**
The map release process involves multiple steps of public notification and review. Comments and appeals can take time to resolve. Also, the federal notification requirements through the Federal Register can take several months at a time. To get the most up-to-date estimate for map release, please contact your local floodplain administrator or your NFIP Regional Planner.
- How do I determine if I'm in a Non-Enroachment Area?**

Documents

- [NC Flood Quick Guide](#)
- [Model Ordinance \(Coastal\)](#)
- [Model Ordinance \(Non-Coastal\)](#)
- [No-Rise Guidance Document](#)
- [FEMA Elevation Certificate](#)
- [Executive Order 123](#)
- [Executive Order 11988](#)
- [Executive Order 13690](#)

[See All >](#)



Flood.nc.gov- LOMC

North Carolina Flood Insurance

Secure https://flood.nc.gov/ncflood/lomc.html

Apps Firefox Internet Explorer Outlook Web App Mail Work_Mail work services Conferences ncaag Dashboard - 123Cn GOOGLE Facebook My DFAC Account 11 events Working Local Information MyIDCard - Sign In Other bookmarks

flood.NC.gov Go to FRIS site Go to FIMAN site

Home Property Risk Mapping Program Find a Document Events Floodplain Management **LOMC** Mitigation Flood Warning Industries

North Carolina Floodplain Manager Certification The North Carolina Association of Floodplain Managers has established a state program for professional certification of floodplain managers. The program recognizes continuing education and professional development that enhances the knowledge and performance of local, state, federal and private sector floodplain managers.

LOMC

Letters of Map Change

The North Carolina Floodplain Mapping Program (NCFMP) received delegation of processing and issuance of North Carolina MT-2 Letters of Map Change (LOMCs) from the Federal Emergency Management Agency on July 1, 2006.

MT-2 LOMC Application Packages may be submitted:


- Electronically via File Transfer Protocol (FTP)
- Electronically via FEMA's Online LOMC Portal
- US Post or overnight delivery to:
NC MT-2 LOMC Depot
Attention: Steve Garrett
4218 Mail Service Center
Raleigh, North Carolina 27699-4218

Please contact the LOMC Manager, Steve Garrett, at lomchelp@ncfmp.gov for additional information, questions, or requests for pre-submittal consultation.

Documents

- MT-2 LOMC Forms and Instructions
- MT-2 LOMC Fees
- Download Effective MT-2 LOMCs

See All >



Frequently Asked Questions

- What are the Endangered Species Act (ESA) Requirements for MT-2 applications?
For information go to: [MT-2 Application Forms and Instructions](#)
- What are the current fees for Letters of Map Change (LOMC)?
For information go to: [Flood Map-Related Fees](#)

Flood.nc.gov- Mitigation

Browser window showing the flood.nc.gov website. The address bar displays <https://flood.nc.gov/ncflood/mitigation.html>. The website header includes the logo "flood.NC.gov" and navigation links: Home, Property Risk, Mapping Program, Find a Document, Events, Floodplain Management, LOMC, Mitigation, Flood Warning, Industries. A secondary navigation bar includes links like "Go to FRIS site" and "Go to FIMAN site".

News and Updates

- 03/19/2015
L-273: Managing Floodplain Development Through the NFIP
- 03/23/2015
Certified Floodplain Manager Exam

Mitigation

What is Mitigation?

"Mitigation is any cost-effective action that reduces or eliminates the long-term risk of damage to buildings, manufactured homes and other structures or property from flooding or other natural hazard impacts."

Important Links:

- FEMA
- NCDPS-NCDEM/Recovery
- North Carolina Emergency Management
- ReBuild NC
- Hurricane Matthew Recovery

For additional information, questions, or requests please contact Chris Crew at mitigationhelp@ncdps.gov

Frequently Asked Questions

- Mitigation Grants: Am I eligible for a grant?**
FEMA mitigation grants are generally available to local governments rather than individual property owners. NCEM alerts local government officials including Emergency Management Coordinators, Planning Directors and Local Flood Plain Administrators when notices of funds availability and funding priority guidance is received. Refer to the list of local points of contact, or contact your State Hazard Mitigation Officer for further information.
- What are some common mitigation measures?**
Many structural and non-structural mitigation measures have been identified and include:
 - Purchase of insurance
 - Landscaping measures
 - Installation of flood vents
 - Elevation of HVAC and other machinery or utilities

More Answers from the Quick Guide

- Overview: National Flood Insurance Program (NFIP)
- Flood Map Information
- Nature Doesn't Read Flood Maps
- Building Sites Higher Than the BFE
- Activities in SFHAs That Require Local Permits and Approvals
- Applying for a Floodplain Development Permit
- Freeboard: Build Higher, Reduce Damage, Save on Insurance
- How to Elevate your Floodplain Building (Riverside)
- Enclosures Below the BFE (A Zones)
- Manufactured Homes Require Special Attention
- Utility Service Outside Buildings
- Improving Your Floodplain Building
- Non-Substantial Improvements
- Substantial Improvement: Renovation Only
- Elevating Pre-FIRM Buildings
- Easy and Low-Cost Protection Options for Older Homes
- More Expensive Flood Mitigation Projects
- Understanding the Riverine Floodplain
- Wind and Water Requirements for Coastal Homes
- Flood Insurance: Prospects Change

Flood.nc.gov- Flood Warning

The screenshot shows the flood.nc.gov website. The browser address bar displays "https://flood.nc.gov/mcflood/floodwarning.html". The website header includes the "flood.NC.gov" logo and navigation links: Home, Property Risk, Mapping Program, Find a Document, Events, Floodplain Management, LOMC, Mitigation, Flood Warning, and Industries. Below the header, a banner states: "An Association of Floodplain Managers has established a state program for professional certification of floodplain managers. The program recognizes continuing education and professional development that enhance the knowledge and performance of local, state, federal and private sector floodplain managers. The OFM examination is 'flooded back' and is held in a pro..."

Flood Warning

NC FIMAN (Flood Inundation Mapping Network)

FIMAN provides real-time data on stream elevation, rainfall and weather parameters from over 550 gages across North Carolina. Some sites may be rain or stage gages only while some may have weather data available. Many of these gages are managed by the Division of Emergency Management (NCEM) while some are operated by local government agencies and private organizations. Additionally, gages from the U.S. Geological Survey are included in this network.

[Link to NC FIMAN](#)

FIMAN Mission

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

FIMAN Goals

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

FIMAN Contact

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

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

Phone: (919) 715-5711
Fax: (919) 715-0408
Email: fimanhelp@ncdps.gov

Contact

NC Floodplain Mapping Program

4218 Mail Service Center
Raleigh, NC 27699-4218

Phone: 919-715-5711
Fax: 919 715-0408
Email: fimanhelp@ncdps.gov

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

Nothing Compares

Flood.nc.gov- Real Estate Agents

Browser window showing the **flood.NC.gov** website. The address bar displays <https://flood.nc.gov/ncflood/realestateagent.html>.

The website header includes the **flood.NC.gov** logo and navigation links: Home, Property Risk, Mapping Program, Find a Document, Events, Floodplain Management, LOMC, Mitigation, Flood Warning, and Industries. There are also buttons for "Go to FRIS site" and "Go to FIRM site".

The main content area is titled **Real Estate Agents** and includes the following sections:

- Property Risk ESTIMATOR**: Calculate Risk Level.
- Insurance Costs ESTIMATOR**: Calculate Premiums.
- Events & Training**:
 - 03/19/2018: L-273: Managing Floodplain Development Through the NFIP
 - 03/23/2018: Certified Floodplain Manager Exam
 - 04/15/2018: NCAFFPM 2018 Annual Conference

The **Real Estate Agents** section features the heading "For Agents Who Sell Real-Estate in a Flood-Hazard Area" and a quote: "Potential buyers want to know how to mitigate flood hazards on property within the flood plain." Below this is a photo of three people (two men and one woman) sitting on a couch, looking at a laptop screen.

Important Links:

- NC Flood Risk Information System
- FEMA Map Service Center
- North Carolina NFIP Updates
- Find Meetings & Training

Frequently Asked Questions:

- How do I determine if the structure is in the SFHA?
Check the Flood Risk Information System Website: FRIS
- Will an elevation certificate be required?
A Post-FIRM structure should have an elevation certificate completed at the time of construction. An EC is required for rating the flood insurance policy.
- Do Pre-FIRM structures require an elevation certificate?
No, but it is strongly encouraged. Pre-FIRM subsidized rates are increasing up to 18% per year (25% in some cases), and an elevation certificate will help an owner decide when to convert to an actuarially-rated policy instead of a subsidized policy. Some owners may save money by converting to an actuarial policy now.
- How do I know if the property has been removed from the SFHA?
Check with the owner or the FEMA Map Service Center to see if a LOMA or LOMR-F was issued for the property. The local floodplain administrator or planning office may know as well. If there have been map updates since the LOMA or LOMR-F was issued, it may have been superseded, incorporated into the new maps, or revalidated.

More Answers from the Quick Guide:

- Useful Resources and Common Acronyms
- Why Communities Regulate the Floodplain
- Overview: National Flood Insurance Program (NFIP)
- Flood Map Information
- North Carolina Floodplain Mapping Program
- North Carolina Flood Risk Information System (FRIS)
- Nature Doesn't Read Flood Maps
- Pre-FIRM and Post-FIRM Structures
- Risk MAP Products
- Building Sites Higher Than the BFE
- Think Carefully Before You Seek a Floodplain Variance
- Freeboard: Build Higher, Reduce Damage, Save on Insurance
- Elevation Certificate and Its Purpose
- Completing the Elevation Certificate: Documentation is Important - for You and Your Community
- The Adverse Impacts of Floodplain Fill
- Required "No-Impact" Certification
- How to Elevate your Floodplain Building (Riverine)
- Compaction of Floodplain Fill (A Zones)
- Enclosures Below the BFE (A Zones)

See All >

Flood.nc.gov- Insurance Agents

The screenshot displays the flood.nc.gov website. The header includes the site logo, navigation links (Home, Property Risk, Mapping Program, Find a Document, Events, Floodplain Management, LOMC, Mitigation, Flood Warning, Industries), and buttons for FRIS and FIRM. The main content area is titled "Insurance Agents" and features a sub-header "For Insurance Agents Who Cover Property in Flood-Hazard Areas". Below this, a quote states: "Residents in communities that participate in the Community Rating System may receive up to a 45 percent premium discount on their flood insurance policies." A section for "Important Links" lists: ASFFM Insurance Agent Training Signup, Key Fundamentals Training, North Carolina NFIP Updates, and Find Meetings & Training. To the right of the links is a photograph of three people (two men and one woman) in business attire looking at a document. Below the photo is a "Frequently Asked Questions" section with three questions and answers regarding flood insurance eligibility and requirements. On the left side of the page, there are links to "Property Risk ESTIMATOR", "Calculate Risk Level", "Insurance Costs ESTIMATOR", and "Calculate Premiums". Below these are "News and Updates" with three entries: 03/19/2018 L-273: Managing Floodplain Development Through the NFIP, 03/23/2018 Certified Floodplain Manager Exam, and 04/15/2018 NCAFFM 2018 Annual Conference. On the right side, there is a "More Answers from the Quick Guide" section listing various resources like "Useful Resources and Common Acronyms", "North Carolina's Disaster Declarations", "Overview: National Flood Insurance Program (NFIP)", "Community Rating System (CRS)", "Flood Map Information", "North Carolina Floodplain Mapping Program", "North Carolina Flood Risk Information System (FRIS)", "Nature Doesn't Read Flood Maps", "Old Format Flood Insurance Rate Map", "Levee Certification for FEMA Flood Maps", "Pre-FIRM and Post-FIRM Structures", "Building Sites Higher Than the BFE", "Freeboard: Build Higher, Reduce Damage, Save on Insurance", "Elevation Certificate and Its Purpose", "Completing the Elevation Certificate Documentation is Important - for You and Your Community", "Riverine Floodplains", "Riverine: Flood Insurance Rate Map", "Coastal Floodplains", "Coastal Areas: Flood Insurance Rate Map", and "Wind and Water Requirements for".

Insurance Agents

For Insurance Agents Who Cover Property in Flood-Hazard Areas

"Residents in communities that participate in the Community Rating System may receive up to a 45 percent premium discount on their flood insurance policies."

Important Links:

- ASFFM Insurance Agent Training Signup
- Key Fundamentals Training
- North Carolina NFIP Updates
- Find Meetings & Training

Frequently Asked Questions

- Can a person outside of SFHA buy flood insurance?**
Yes. As long as they are in a participating community, even a person in an X-Zone can purchase flood insurance.
- Who cannot buy flood insurance?**
Those who are not in an NFIP-participating community, those in a Coastal Barrier Resource Area or Otherwise Protected Area, or those whose property has been removed from eligibility due to non-compliance (Section 1316).
- Who is required to purchase flood insurance?**
Anyone with a federally-backed mortgage within the Special Flood Hazard Area (Zones A, AE, V, or VE).

Property Risk ESTIMATOR

Calculate Risk Level

Insurance Costs ESTIMATOR

Calculate Premiums

News and Updates

- 03/19/2018
L-273: Managing Floodplain Development Through the NFIP
- 03/23/2018
Certified Floodplain Manager Exam
- 04/15/2018
NCAFFM 2018 Annual Conference

See More >

More Answers from the Quick Guide

- Useful Resources and Common Acronyms
- North Carolina's Disaster Declarations
- Overview: National Flood Insurance Program (NFIP)
- Community Rating System (CRS)
- Flood Map Information
- North Carolina Floodplain Mapping Program
- North Carolina Flood Risk Information System (FRIS)
- Nature Doesn't Read Flood Maps
- Old Format Flood Insurance Rate Map
- Levee Certification for FEMA Flood Maps
- Pre-FIRM and Post-FIRM Structures
- Building Sites Higher Than the BFE
- Freeboard: Build Higher, Reduce Damage, Save on Insurance
- Elevation Certificate and Its Purpose
- Completing the Elevation Certificate Documentation is Important - for You and Your Community
- Riverine Floodplains
- Riverine: Flood Insurance Rate Map
- Coastal Floodplains
- Coastal Areas: Flood Insurance Rate Map
- Wind and Water Requirements for

See All >

Flood.nc.gov- Professional Engineers/Surveyors

The screenshot shows the flood.nc.gov website. The header includes the site logo, navigation links (Home, Property Risk, Mapping Program, Find a Document, Events, Floodplain Management, LOMC, Mitigation, Flood Warning, Industries), and buttons for FRIS and FIMAN sites. The main content area is titled "Professional Engineers/Surveyors" and includes a sub-header "For Professional Engineers & Surveyors" with a quote: "Accurate, up-to-date floodplain information can be invaluable to Engineers and Surveyors working in flood-prone areas." Below this is a section for "Important Links" listing resources like NC FRIS Engineering Models, Spatial Data Download, NC Geodetic Survey, NC Society of Surveyors, NC Certified Floodplain Surveyor, FEMA Letter of Map Changes (LOMC), Endangered Species Act (ESA), and Charlotte/Mecklenburg LOMC Website. A contact information box for Tim Langan is also present. On the left, there are sections for "Property Risk ESTIMATOR" and "Insurance Costs ESTIMATOR". On the right, a "More Answers from the Quick Guide" section lists links to MT-2 LOMC forms, fees, and guidelines. A "Frequently Asked Questions" section at the bottom lists four questions related to MT-2s, LOMCs, and NFIP requirements.

flood.NC.gov

Home Property Risk Mapping Program Find a Document Events Floodplain Management LOMC Mitigation Flood Warning Industries

North Carolina Floodplain Manager Certification: The North Carolina Association of Floodplain Managers has established a state program for professional certification of floodplain managers. The program recognizes continuing education and professional development that enhances the knowledge and performance of local, state, federal and private sector floodplain managers.

Professional Engineers/Surveyors

For Professional Engineers & Surveyors

"Accurate, up-to-date floodplain information can be invaluable to Engineers and Surveyors working in flood-prone areas."

Important Links:

- NC FRIS Engineering Models
- Spatial Data Download
- NC Geodetic Survey
- NC Society of Surveyors
- NC Certified Floodplain Surveyor
- FEMA Letter of Map Changes (LOMC)
- Endangered Species Act (ESA)
- Charlotte/Mecklenburg LOMC Website

For additional information, questions, or requests please contact Tim Langan at engineeringhelp@ncdps.gov

Property Risk ESTIMATOR

Calculate Risk Level

Insurance Costs ESTIMATOR

Calculate Premiums

News and Updates

- 03/14/2018
Floodplain Administrators Workshop (NC-FPA-101) Central Region
- 03/19/2018
L-273: Managing Floodplain Development Through the NFIP
- 03/23/2018
Certified Floodplain Manager Exam

[See More >](#)

More Answers from the Quick Guide

- MT-2 LOMC Forms and Instructions
- MT-2 LOMC Fees
- Download Effective MT-2 LOMCs
- Riverline H&H Engineering Guidelines and Standards
- Coastal Flood Study Map Maintenance Changes
- National Flood Insurance Program Elevation Certificate and Instructions
- No-Rise Guidance Document

[See All >](#)

Frequently Asked Questions

- What are the MT-2 Endangered Species Act Requirements for MT-2s (ESAs)?
For information go to: [MT-2 Application Forms and Instructions](#)
- What are the current fees for letters of map changes (LOMCs)?
For information go to: [Flood Map-Related Fees](#)
- What are the current hydraulic numerical models meeting the minimum requirements of the NFIP?
For information go to: [Hydraulic Numerical Models Meeting the Minimum Requirement of National Flood Insurance Program](#)
- What are the current hydrologic numerical models meeting the minimum requirements of the NFIP?
For information go to: [Hydrologic Models Meeting the Minimum Requirement of National Flood Insurance Program](#)

Flood.nc.gov- community Officials

The screenshot displays the flood.nc.gov website. The header includes the site logo, navigation links (Home, Property Risk, Mapping Program, Find a Document, Events, Floodplain Management, LOMC, Mitigation, Flood Warning, Industries), and utility links (Go to FRIS site, Go to FIMAN site). The main content area is titled "Community Officials" and "For Local Floodplain Administrators". It features a quote about insurance premium discounts, a list of important links, and a photograph of a workshop. A "Frequently Asked Questions" section is also present. The left sidebar contains tools like the Property Risk Estimator and Insurance Costs Estimator, along with news updates. The right sidebar lists various resources and guides.

flood.NC.gov

Home Property Risk Mapping Program Find a Document Events Floodplain Management LOMC Mitigation Flood Warning Industries

North Carolina Floodplain Manager Certification The North Carolina Association of Floodplain Managers has established a state program for professional certification of floodplain managers. The program recognizes continuing education and professional development that enhance the knowledge and performance of local, state, federal and private sector floodplain managers.

Community Officials

For Local Floodplain Administrators

"Residents in communities that participate in the Community Rating System may receive up to a 45 percent premium discount on their flood insurance policies."

Important Links:

- NC Flood Risk Information System
- NC Flood Inundation & Mapping Alert Network
- North Carolina NFIP Updates
- Find Meetings & Training

For additional information, questions, or requests please contact Randy Mundt at frhelp@floodnc.gov

Frequently Asked Questions

- What are the Federal Regulations covering floodplain management under the NFIP?
For a detailed answer, please see this document: [Appendix E NFIP Regulations 44 CFR 59-65](#)
- What work in the SFHA requires a permit?
Any man-made change, including building, mining, dredging, filling, grading, paving, excavation, or storage of equipment or materials.
- What work requires an engineering analysis?
Any work in the floodway or non-encroachment area, or any work in the SFHA along streams that do not have a floodway or non-encroachment area. Also, work in V-Zones where wave deflection, ramping, or runoff may affect adjacent structures.

More Answers from the Quick Guide

- Useful Resources and Common Acronyms
- North Carolina's Disaster Declarations
- Why Communities Regulate the Floodplain
- Overview: National Flood Insurance Program (NFIP)
- Community Responsibilities
- Community Rating System (CRS)
- Be Prepared for Flood Emergencies
- Turn Around Don't Drown™
- North Carolina's Flood Warning Program
- Flood Map Information
- North Carolina Floodplain Mapping Program
- North Carolina Flood Risk Information System (FRIS)
- Nature Doesn't Read Flood Maps
- Old Format Flood Insurance Rate Map
- Future Conditions Floodplain Mapping
- Use the Riverine Flood Profile to Determine BFE
- Approximate Flood Zones and Unnumbered A Zones
- All Flood Zones With Non-Encroachment Areas
- Limited Detailed Study
- Use Data from Limited Detailed Study

News and Updates

- 03/14/2018
Floodplain Administrators Workshop (NC-FPA-101) Central Region
- 03/19/2018
L-273: Managing Floodplain Development Through the NFIP
- 03/23/2018
Certified Floodplain Manager Exam

See All +

See All +

Questions?

North Carolina Floodplain Mapping Program

Tonda Shelton

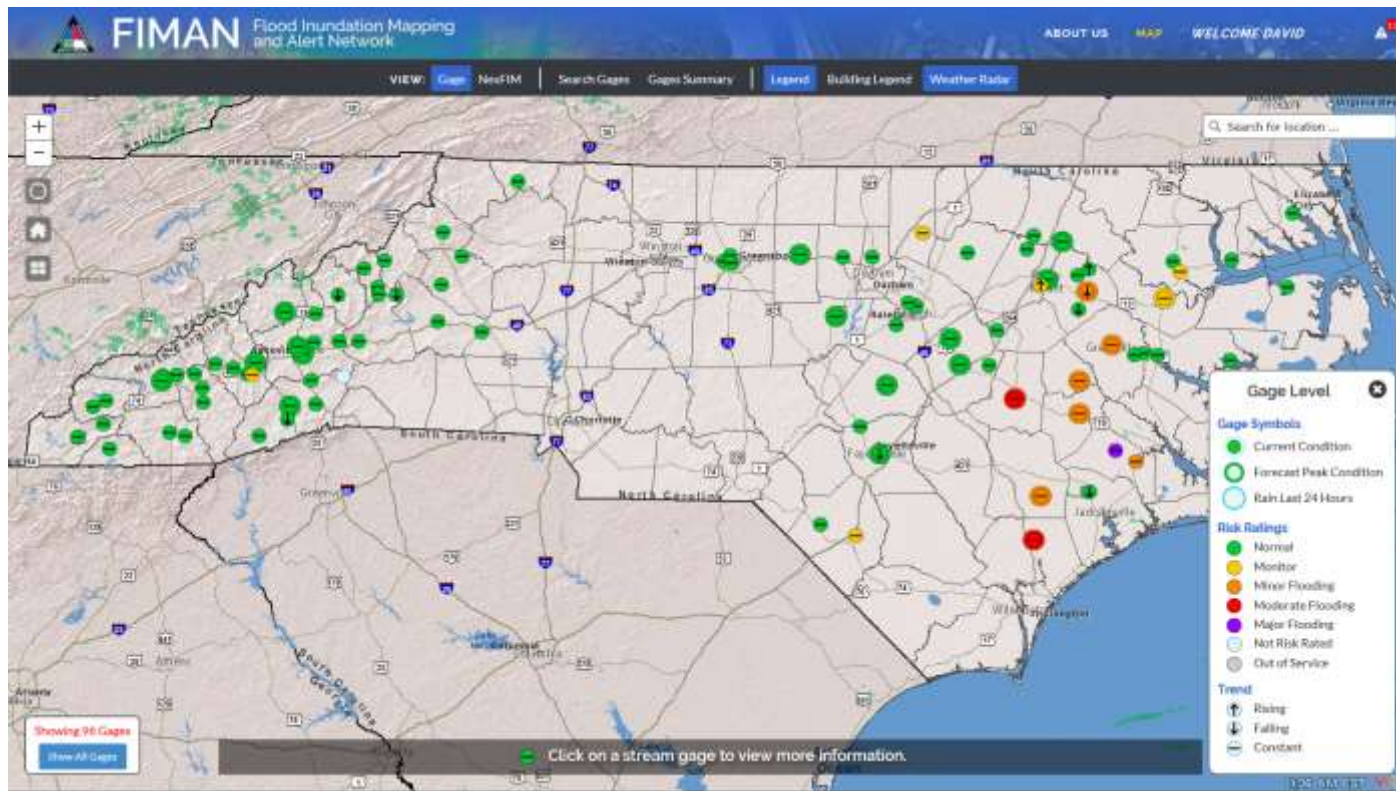
NCFMP Program Manager

Tonda.Shelton@NCDPS.gov

FIMAN

FLOOD INUNDATION AND MAPPING ALERT NETWORK

Home Screen / Current Severity



Gage Level

Gage Symbols

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

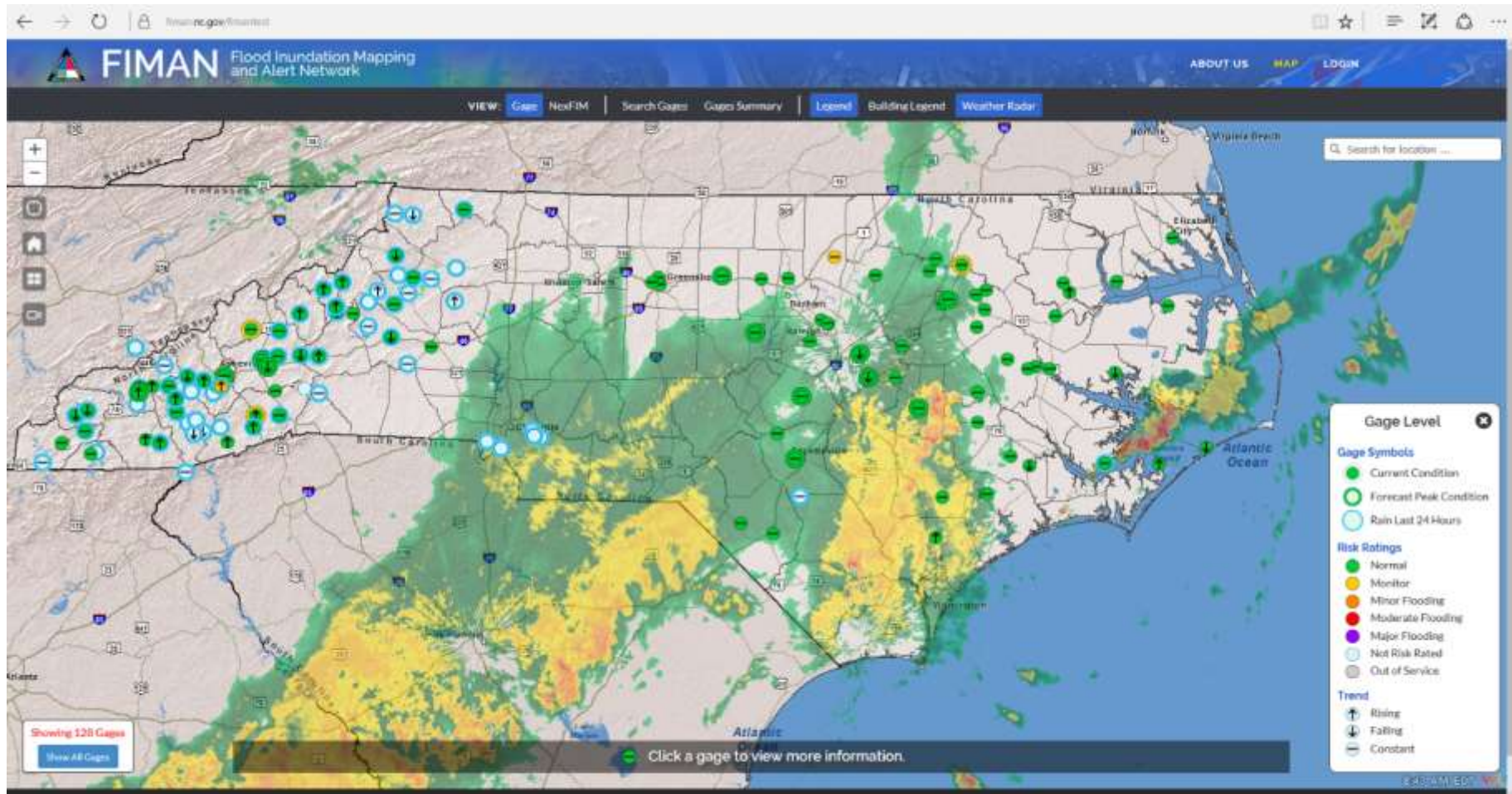
Risk Ratings

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

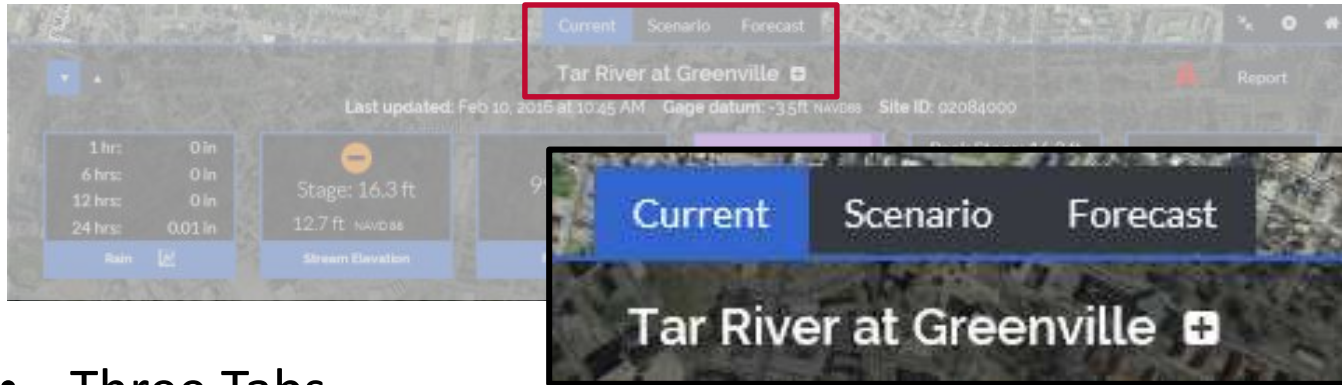
Trend

- Rising
- Falling
- Constant

Weather Radar Loop

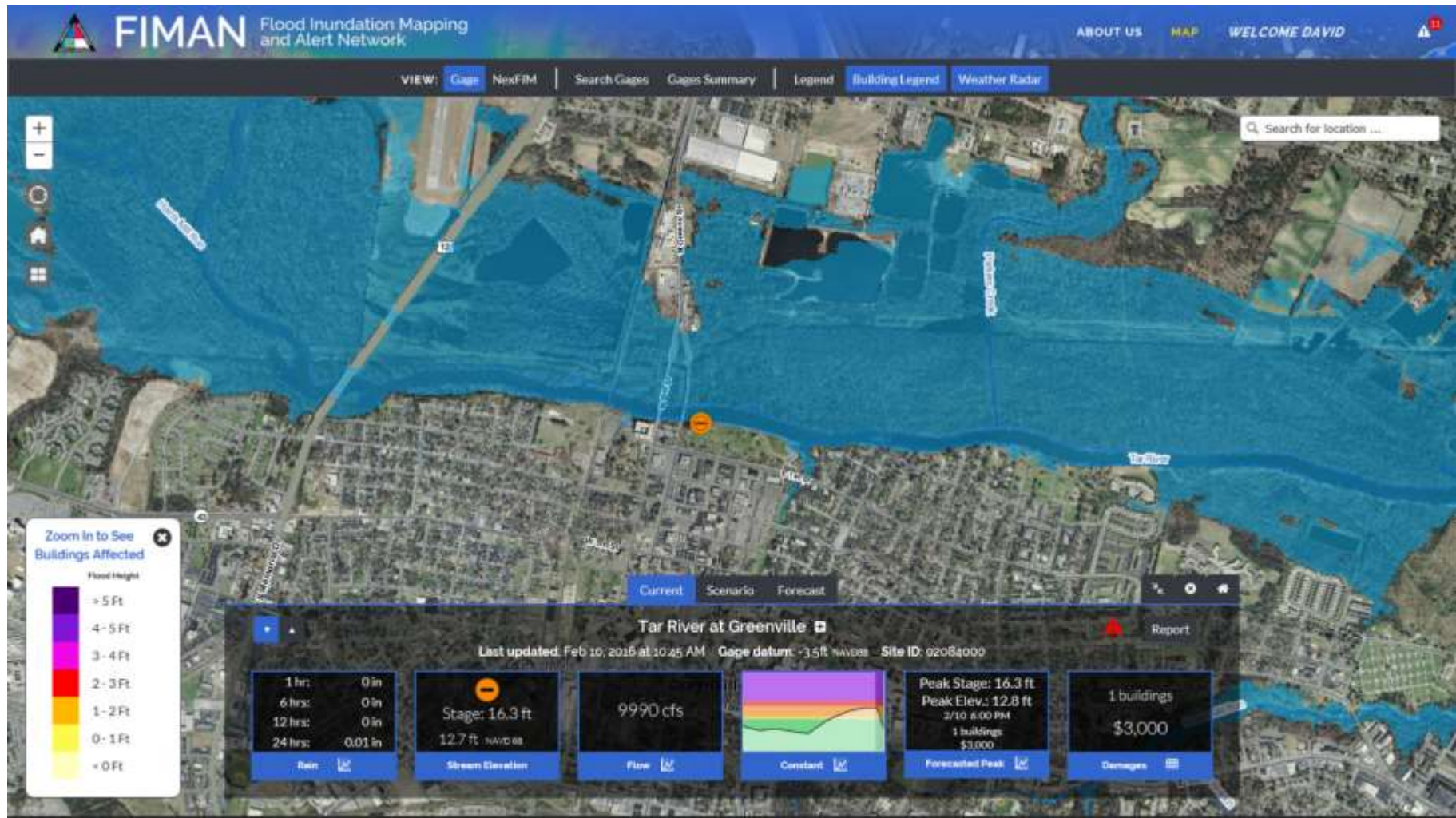


Gage View - Dashboard Concept

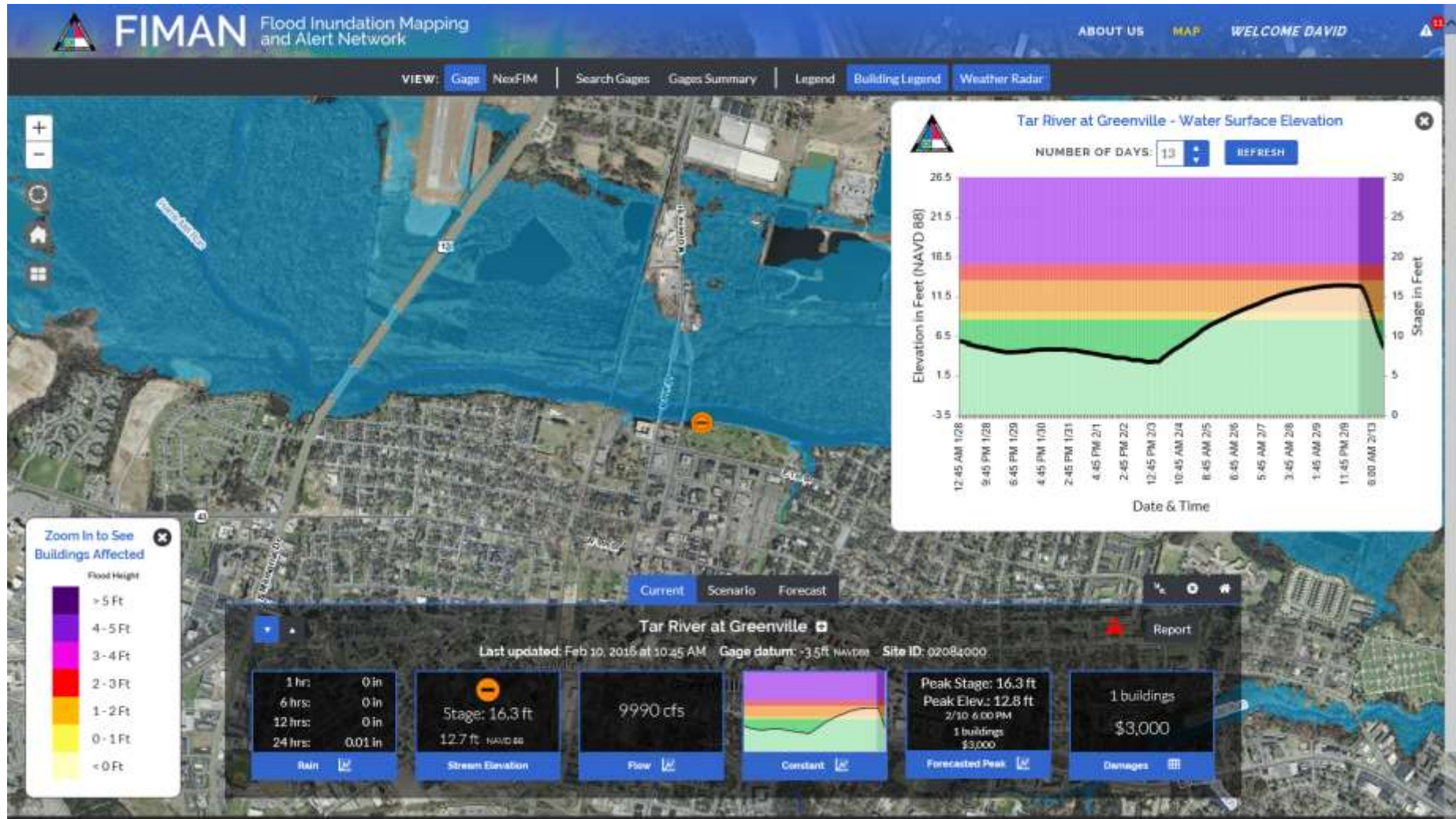


- Three Tabs
 - **Current:** Provides most recent inundation extent
 - **Scenario:** Planning tool for visualization and impact
 - **Forecast:** Shows timeline using NWS forecast data
- Info Widgets
 - Interactive for rainfall, stage, flow, forecast, impacts

Current Inundation Level and Map



Gage Stage Charts + Forecast



Flood Scenario Mode

