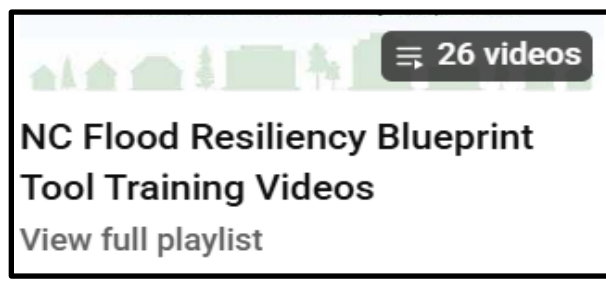
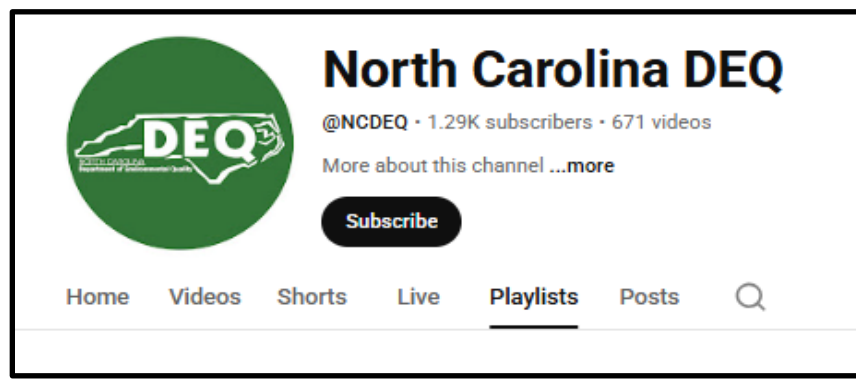


NCDEQ Flood Resiliency Blueprint Tool Tutorial

The information in this tutorial was taken directly from the official NCDEQ training tutorial videos published on their YouTube page. Each of the 25 sections included in this tutorial has a corresponding video which can be viewed on YouTube.



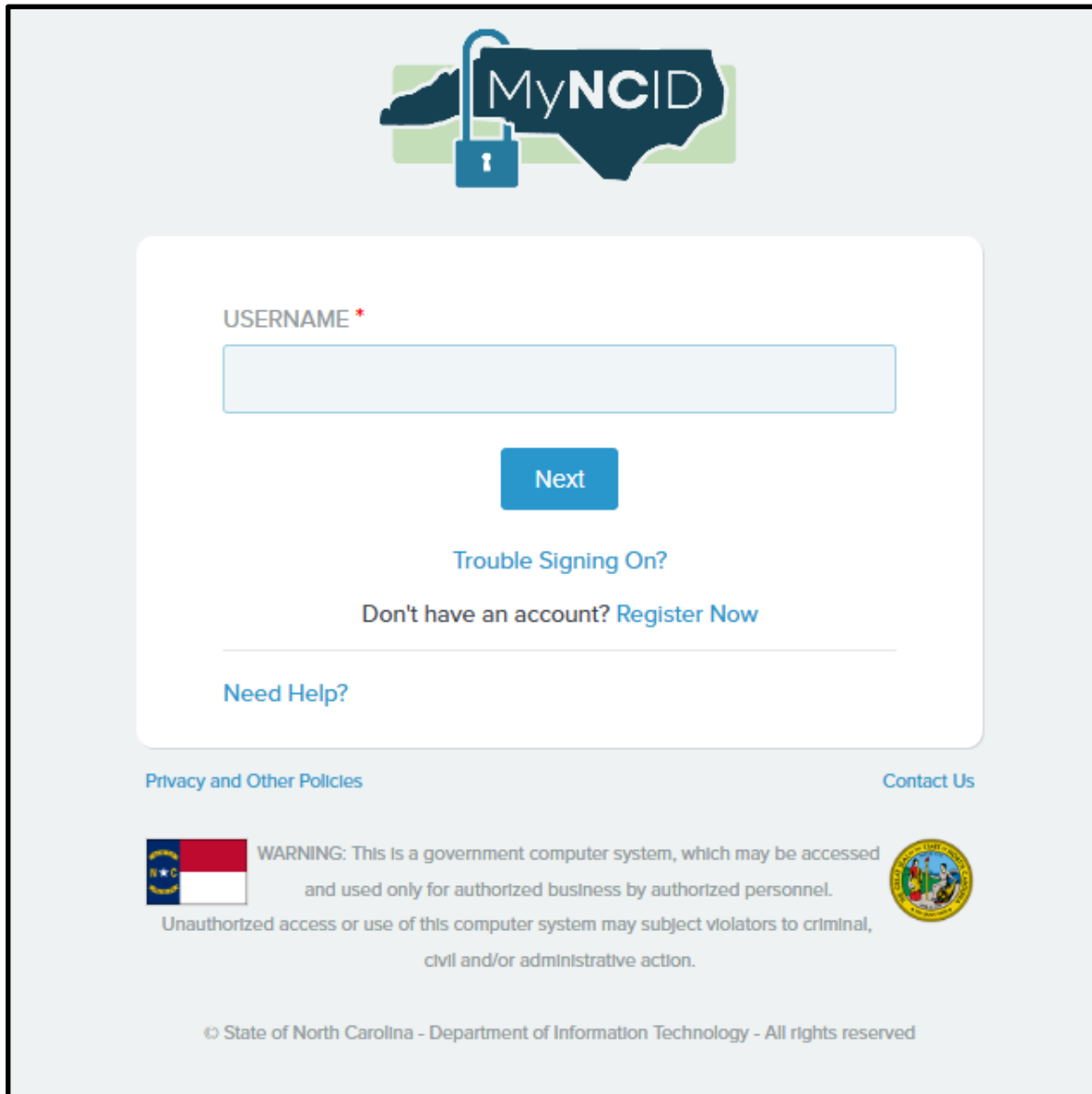
This resource was prepared by Sam Matney in June 2026 as part of the Mid-East Commission's contract with Atkins Realis to offer training and support to municipalities regarding the NCDEQ Flood Resiliency Blueprint Tool. As of June 2026, the Blueprint Tool was still under active development. As updates are made to the tool, this tutorial may require revision to reflect the latest features.

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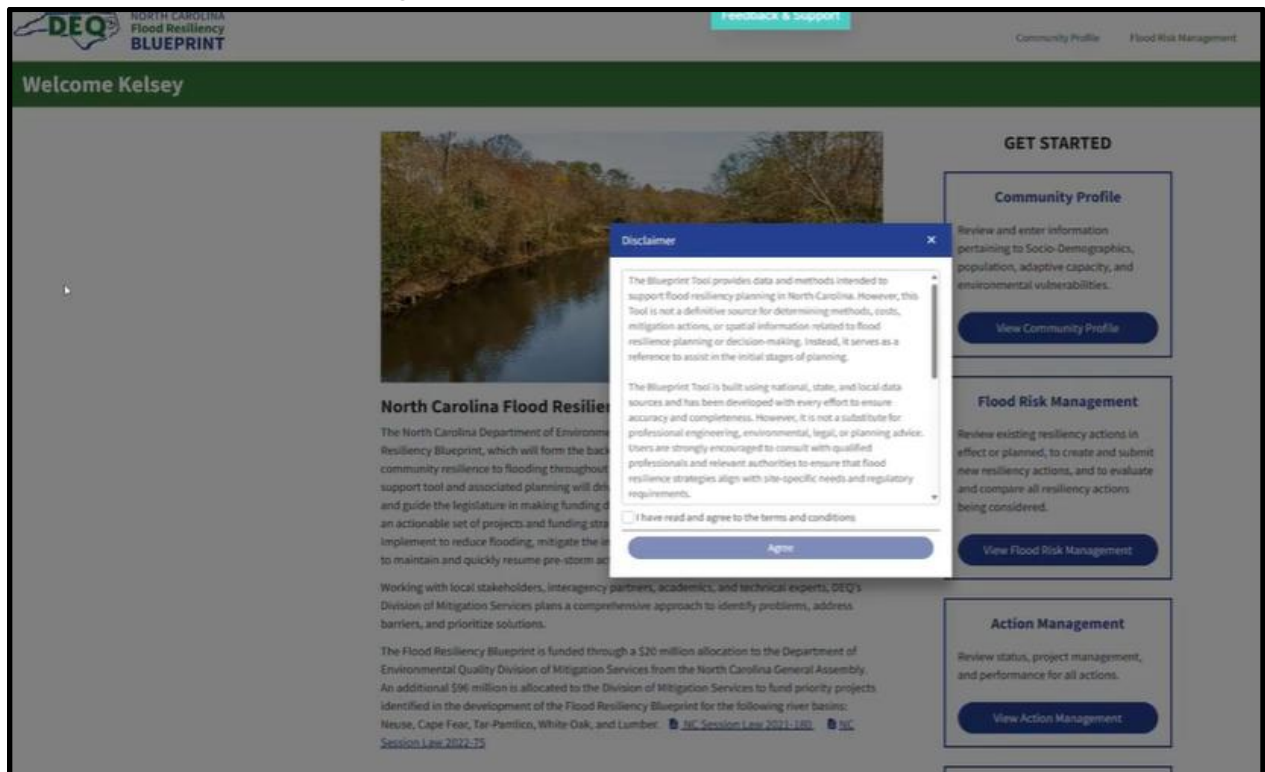
1.1 Logging In:

You can log in with an existing NC ID. Go to the Blueprint Tool login portal [Blueprint Tool Login Portal](#)

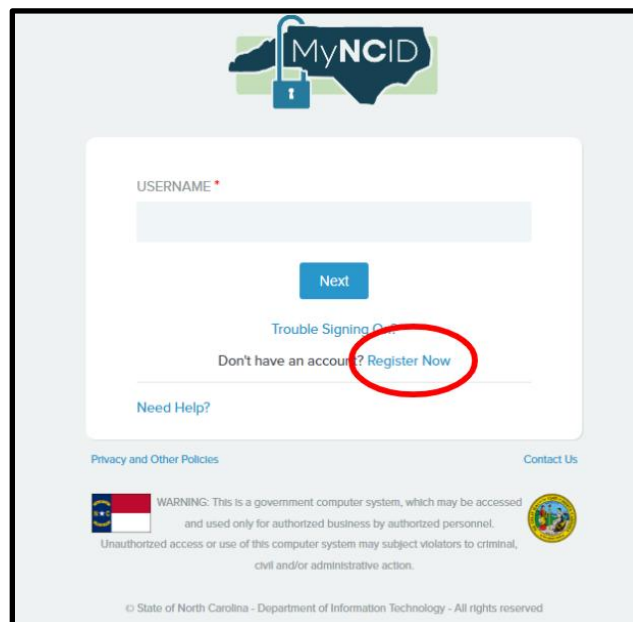
A screenshot of the MyNCID login portal. At the top is the MyNCID logo, which features a blue padlock with a keyhole and the text "MyNCID" in white on a dark blue background. Below the logo is a white login box. Inside the box, the label "USERNAME *" is above a light blue text input field. Below the input field is a blue "Next" button. Under the button are two links: "Trouble Signing On?" and "Don't have an account? Register Now". At the bottom of the box is a link "Need Help?". Below the login box are two links: "Privacy and Other Policies" on the left and "Contact Us" on the right. At the bottom of the page is a warning section. On the left is the North Carolina state flag. To its right is the text: "WARNING: This is a government computer system, which may be accessed and used only for authorized business by authorized personnel. Unauthorized access or use of this computer system may subject violators to criminal, civil and/or administrative action." To the right of the text is the official seal of the State of North Carolina. At the very bottom is the copyright notice: "© State of North Carolina - Department of Information Technology - All rights reserved".

- Use your NCID username, not your email address
- Enter your NCID password
- Log in. This will take you to the Blueprint Tool Homepage

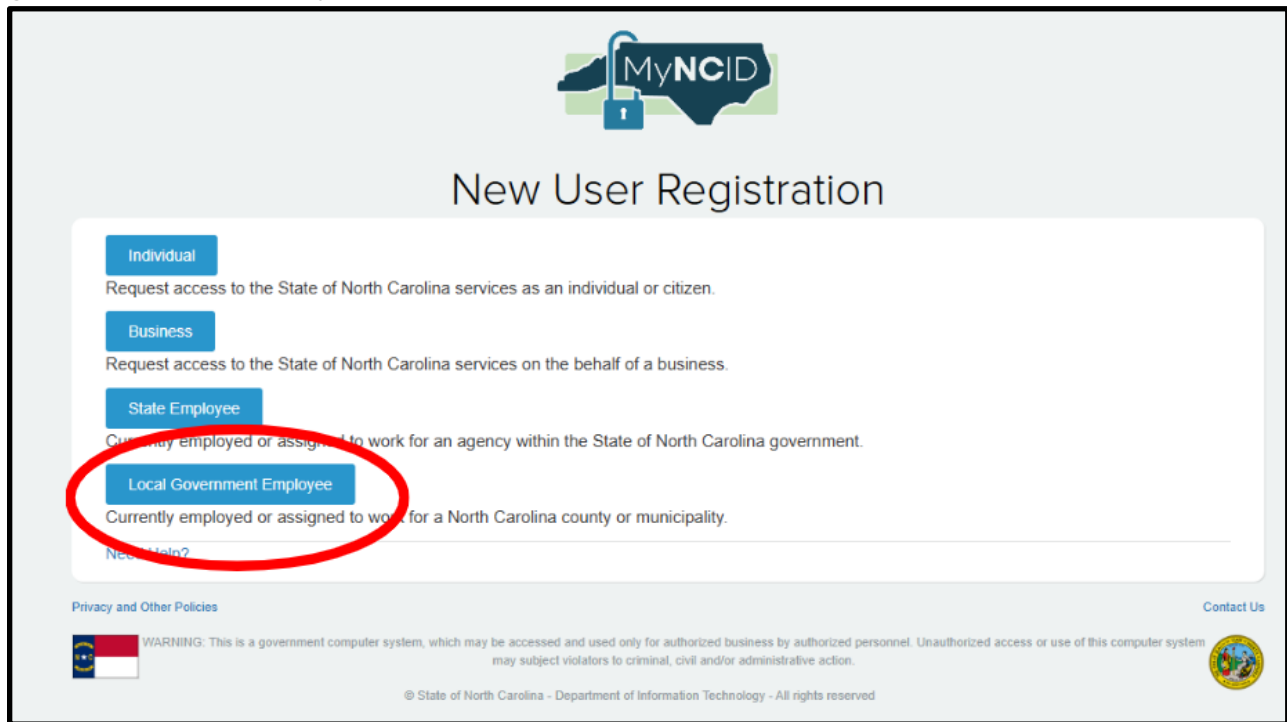
The homepage will appear with a disclaimer which it asks you to read and accept before continuing:



If you don't have an NCID, you can create an NCID username and password. At the blueprint login portal, click "register now".



After you click “register Now”, select the type of NCID you need. If you are a local government employee, you can click the option that says “local government employee”.



The image shows the "MyNCID" New User Registration page. At the top is the "MyNCID" logo with a padlock icon. Below it is the heading "New User Registration". There are four blue buttons for selection: "Individual", "Business", "State Employee", and "Local Government Employee". The "Local Government Employee" button is circled in red. Below each button is a brief description of the user type. At the bottom, there are links for "Privacy and Other Policies", "Contact Us", and a "Need Help?" link. A warning message is displayed at the bottom left, and the North Carolina state seal is at the bottom right.

MyNCID

New User Registration

Individual
Request access to the State of North Carolina services as an individual or citizen.

Business
Request access to the State of North Carolina services on the behalf of a business.

State Employee
Currently employed or assigned to work for an agency within the State of North Carolina government.

Local Government Employee
Currently employed or assigned to work for a North Carolina county or municipality.

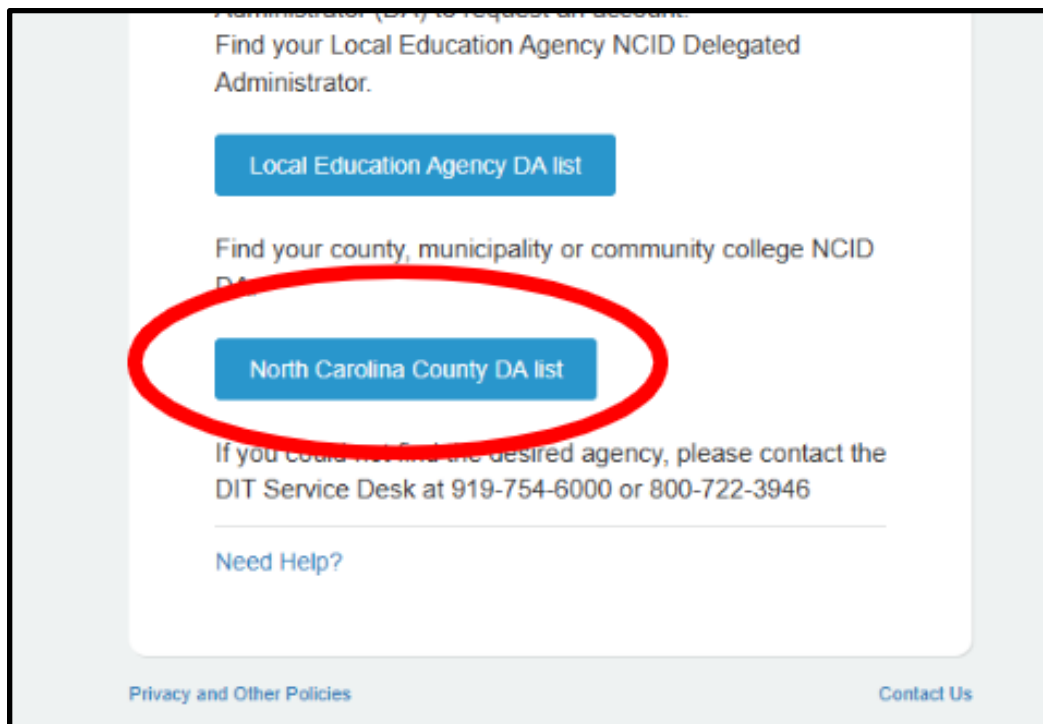
[Need Help?](#)

[Privacy and Other Policies](#) [Contact Us](#)

WARNING: This is a government computer system, which may be accessed and used only for authorized business by authorized personnel. Unauthorized access or use of this computer system may subject violators to criminal, civil and/or administrative action.

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That will direct you to this page where you should click on the NC County DA List.



The image shows a page titled "Find your Local Education Agency NCID Delegated Administrator." It has two blue buttons: "Local Education Agency DA list" and "North Carolina County DA list". The "North Carolina County DA list" button is circled in red. Below the buttons is a paragraph of text and a "Need Help?" link. At the bottom, there are links for "Privacy and Other Policies" and "Contact Us".

Find your Local Education Agency NCID Delegated Administrator.

Local Education Agency DA list

North Carolina County DA list

If you could not find the desired agency, please contact the DIT Service Desk at 919-754-6000 or 800-722-3946

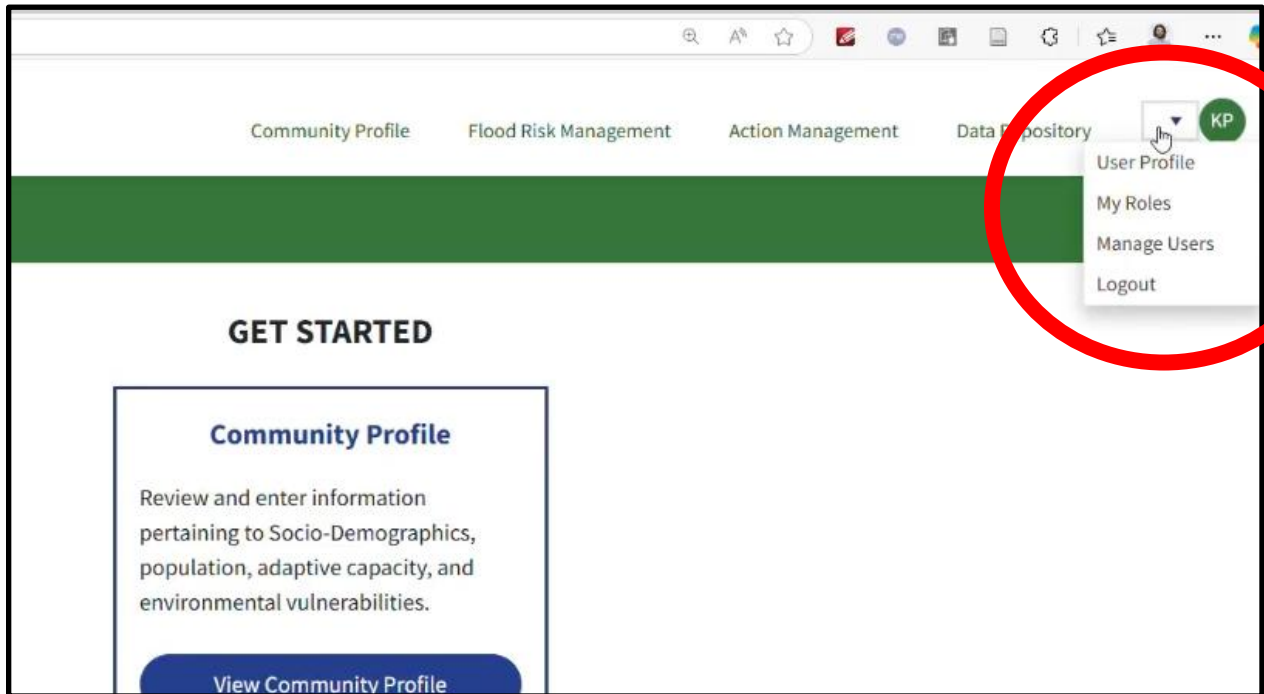
[Need Help?](#)

[Privacy and Other Policies](#) [Contact Us](#)

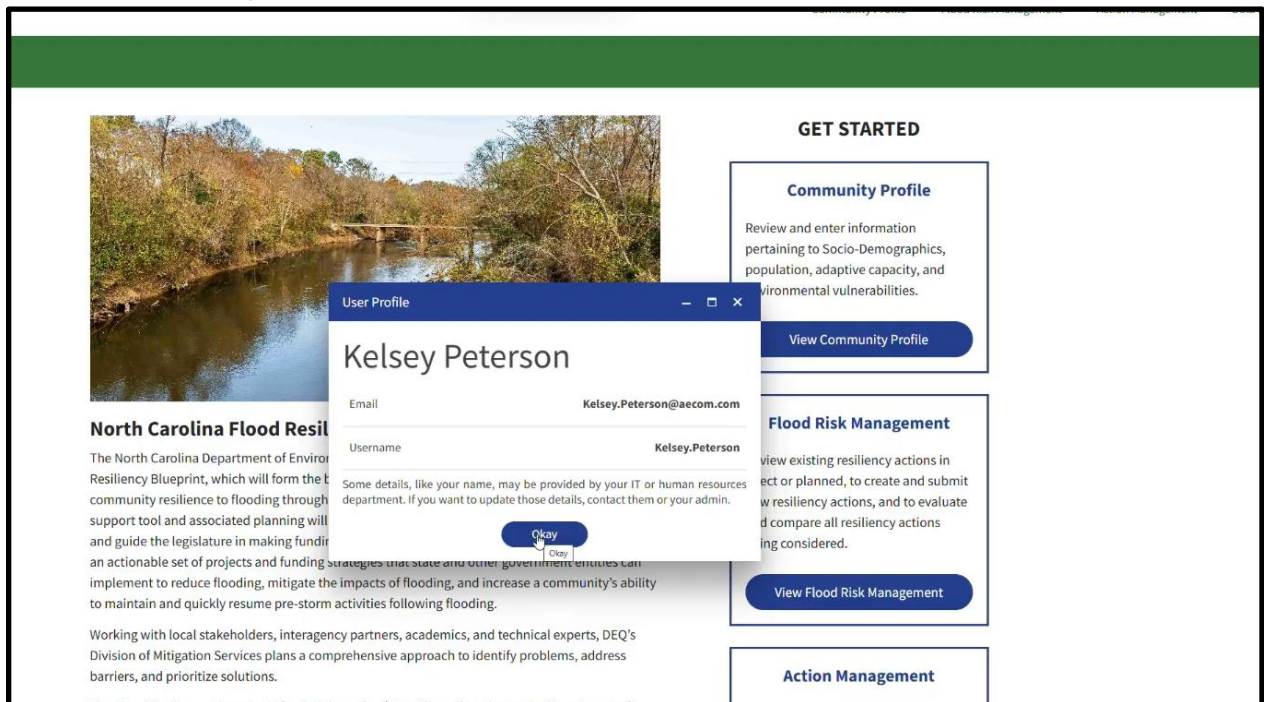
- This will show you a list of local NCID delegated administrators. You will need to go through your local NCID delegated administrator to get an NCID username and password.
- If you are not a state or local government employee, you can register as an individual or a business. Click on “individual” or “business”, fill out the NCID form and wait for the NCID to be approved.
- Once you have logged in and accepted the disclaimer, you can begin to use the Blueprint Tool.

1.2 User Profile Overview:

To see the User Profile, first select the drop down arrow next to your initials in the top right corner of the homepage. Select “User Profile”.

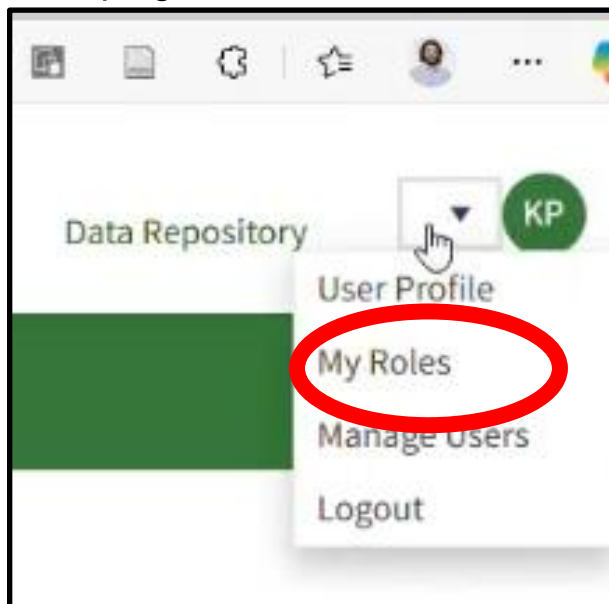


This will display the user's email and username



The information found in the user profile is from NCID and can't be edited directly in the blueprint tool.

To view your role, select the same drop down arrow next to your initials in the top right of the screen and select “my roles”.



Note that the “my roles” table will look different depending on which role you are assigned. If you are assigned a local government role, this is where the assigned role will be.

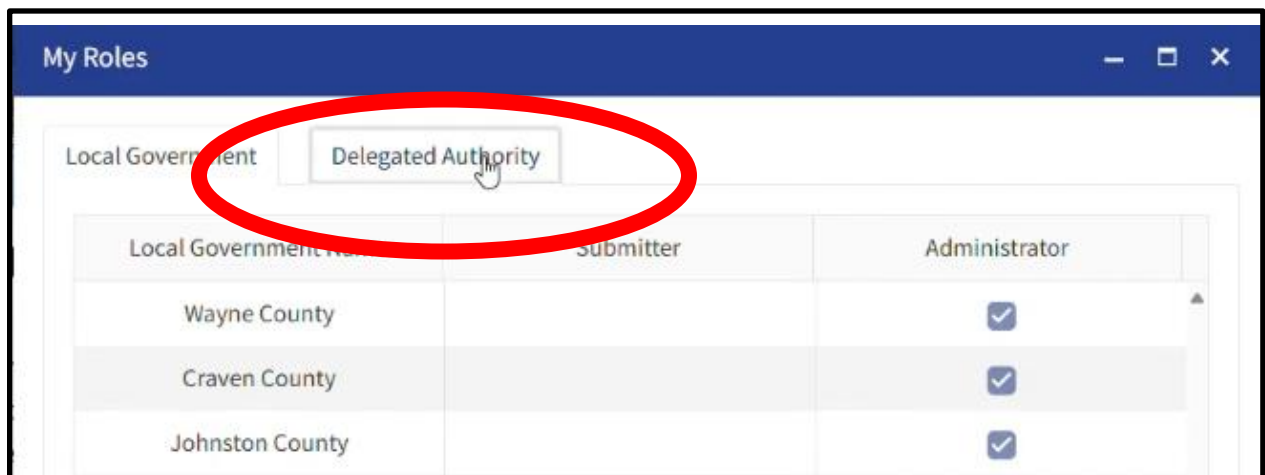
Example:

A screenshot of a web application showing a modal window titled 'My Roles'. The modal has two tabs: 'Local Government' (selected) and 'Delegated Authority'. Below the tabs is a table with three columns: 'Local Government Name', 'Submitter', and 'Administrator'. The table lists six entries, each with a checkmark in the 'Administrator' column. Below the table is a link 'Request Additional Access' and a 'Close' button. The background shows a page with a header 'North Carolina Flood Resiliency Blueprint' and a sidebar with 'Management' and 'Risk Management' sections.

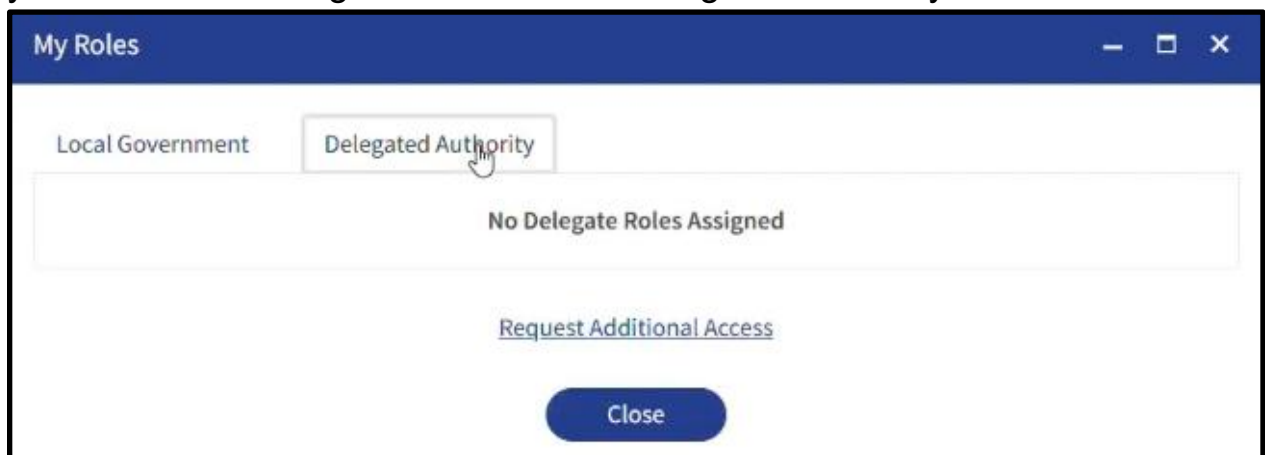
Local Government Name	Submitter	Administrator
Wayne County		☒
Craven County		☒
Johnston County		☒
City Of New Bern		☒
City Of Raleigh		☒
City Of Kinston		☒

- You can't change or remove yourself from an administrator role, but you can be removed as an administrator by another user. Only the NCDQ, local or delegated authority administrators will be able to administer user roles.
- This ensures that each jurisdiction always has at least one assigned administrator within the tool.

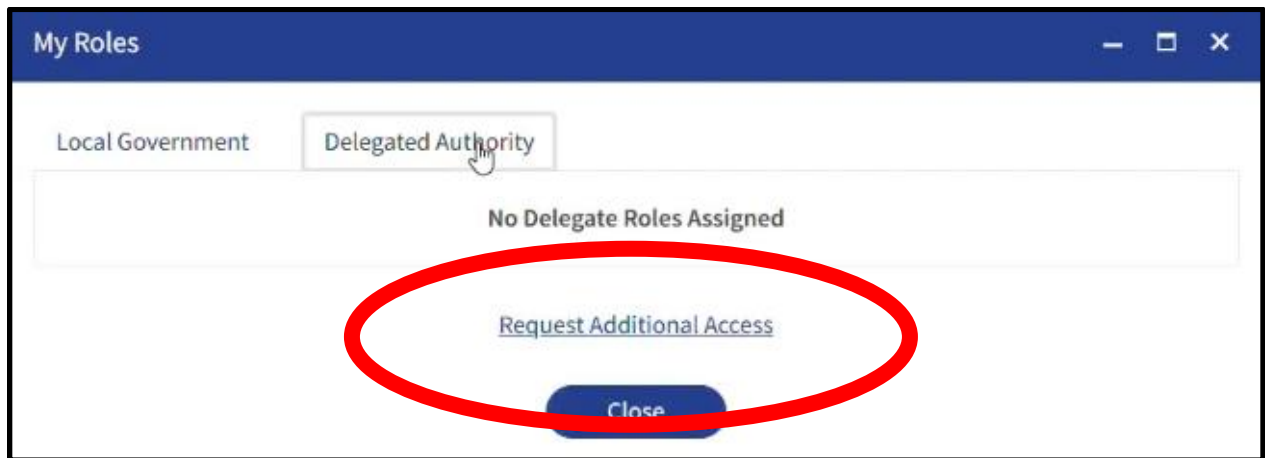
If the user is assigned as a delegated authority, this is where the details of the role will be.



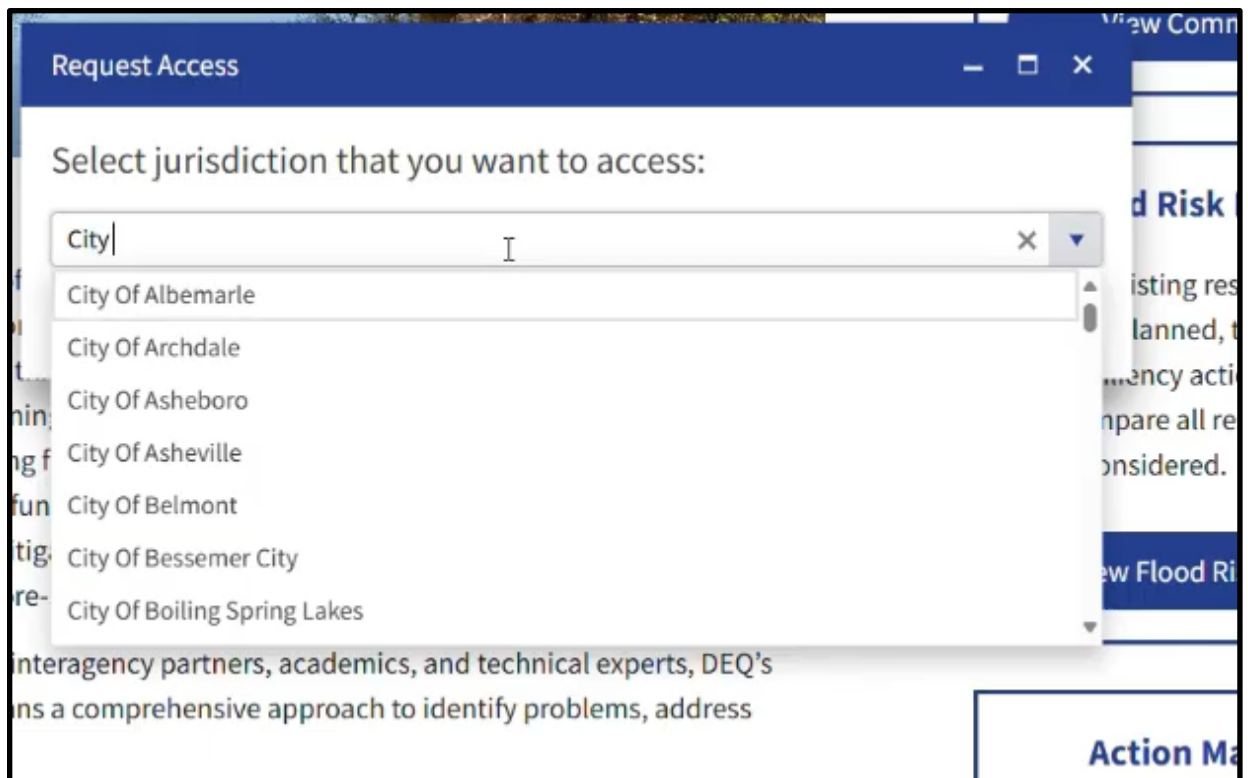
Click on the "delegated authority" tab above to view related role details if you have been assigned the role of a delegated authority.



To be assigned a role as a delegated authority, click “Request Additional Access” under this tab.



- To be assigned a new role, select “request additional access” and type in the name of the jurisdiction you would like to be assigned to.



- This is where the names and emails of the jurisdiction's administrator(s) will be listed. From here, you can reach out directly to the jurisdictional administrator to request access.

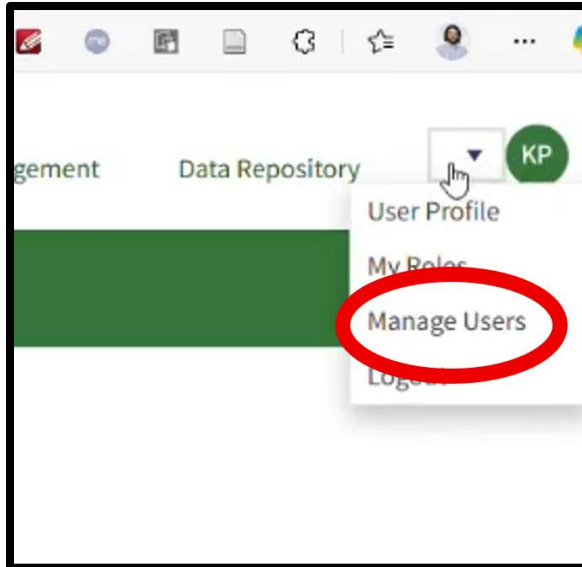
The screenshot shows a web application window titled "Request Access". Inside, there is a section titled "Select jurisdiction that you want to access:" with a dropdown menu currently showing "City Of Kinston". Below this, a message states: "Please contact one of the following jurisdiction administrators to request access:". A list of administrators follows, each with a name, email, and title. The first two entries are for "John Smith" with email "frbtNordlohn3@ptct.net" and title "Local Government Administrator". The third entry is for "Hope Morgan" with email "hope.morgan@aecom.com". A scrollbar is visible on the right side of the list.

Select jurisdiction that you want to access:	
City Of Kinston	
Please contact one of the following jurisdiction administrators to request access:	
John Smith	
Email	frbtNordlohn3@ptct.net
Title	Local Government Administrator
John Smith	
Email	frbtNordlohn3@ptct.net
Title	Local Government Administrator
Hope Morgan	
Email	hope.morgan@aecom.com

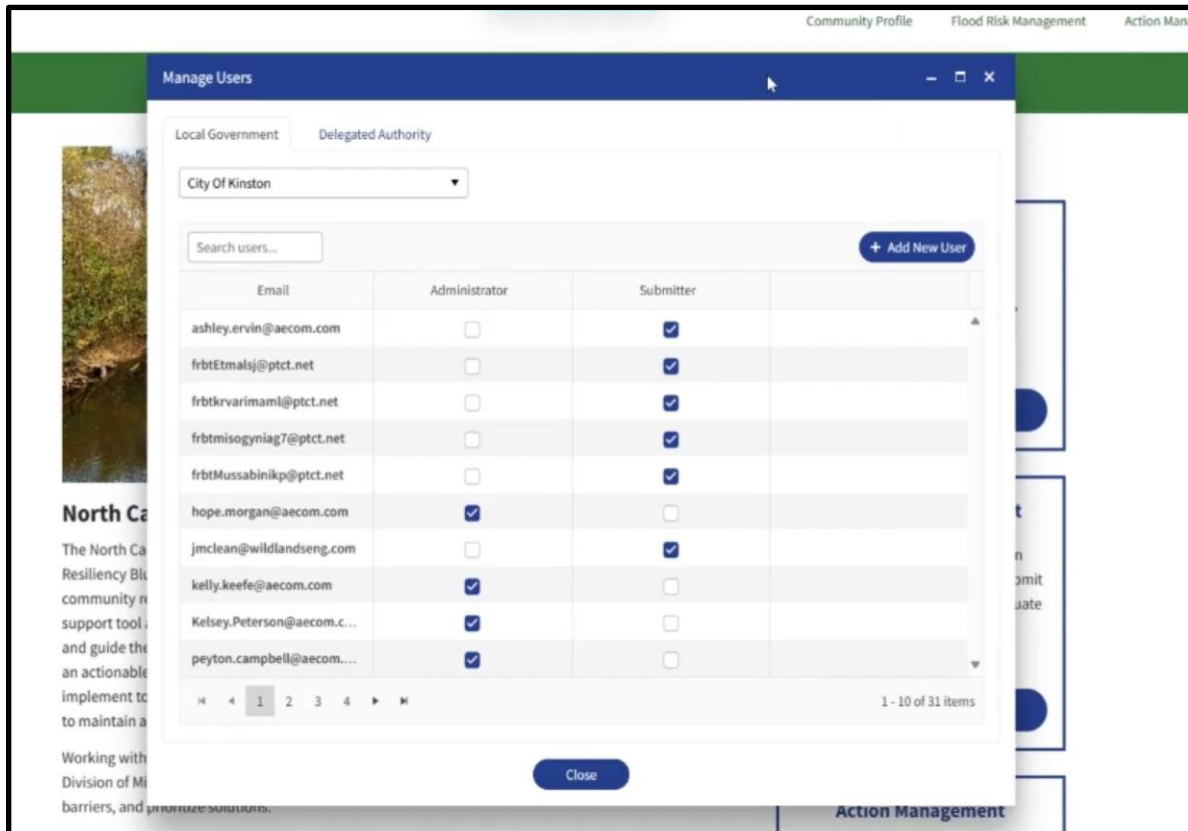
- This will be further explained in the next section (1.3 - Local Government Administration).

1.3 Local Government Administrator:

To Access local government administrator information, click the drop down arrow to the left of your initials in the top right corner of the webpage and select “Manage Users”



This will open the “Manage Users” Dashboard.



- These options will only be visible to local government administrators. You will only be able to see the jurisdictions where you have administrative access. You will be able to see each user's email and their assigned role.
- To add a new user as a local government administrator, select “Add New User” at the right. Enter their email address in the upper left and their assigned role by clicking the appropriate check box to the right of their email. Users can only be assigned one role.

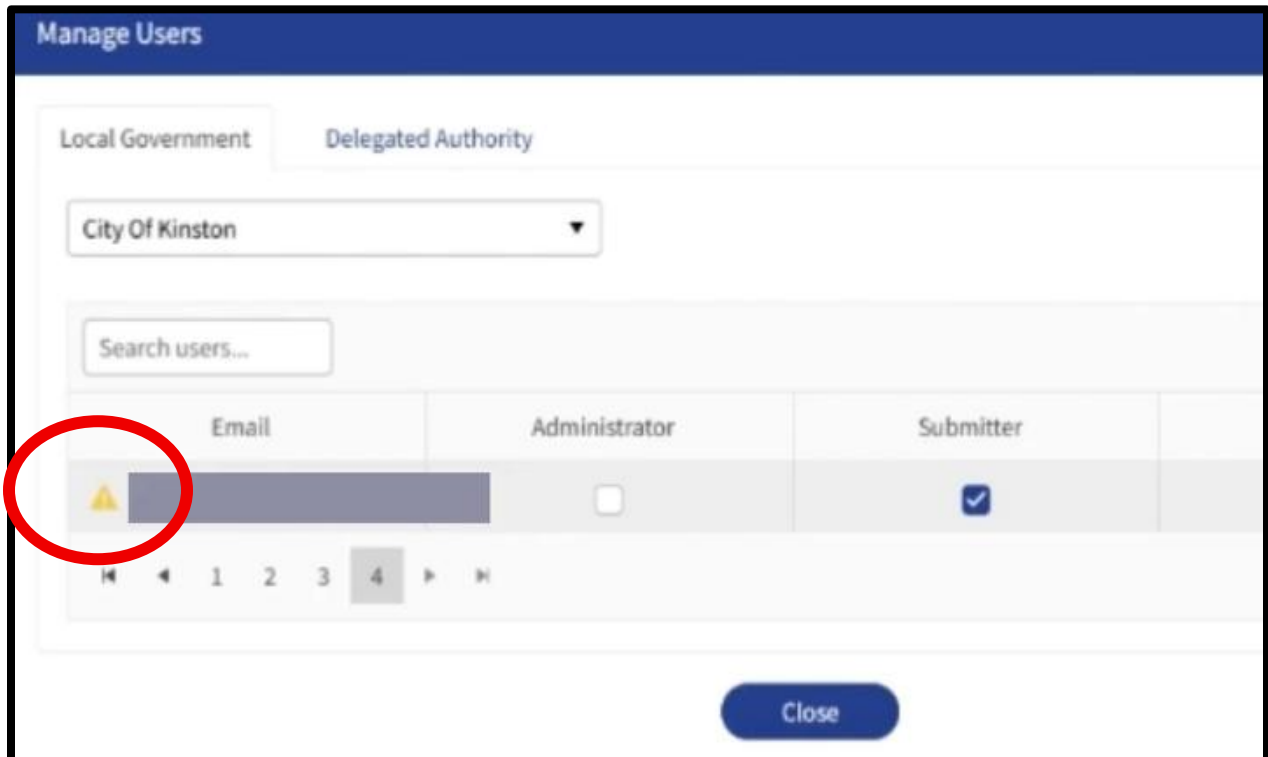
The screenshot shows the 'Manage Users' window with the 'Local Government' tab selected. The 'City Of Kinston' is chosen from the dropdown. A search bar is present. Below it is a table with columns: Email, Administrator, and Submitter. The 'Add New User' button is circled in red. A red arrow points to the email input field.

Email	Administrator	Submitter
ashley.ervin@aecom.com	☐	☒
frbt@tmalsj@ptct.net	☐	☒
frbtkrvarimam@ptct.net	☐	☒
frbmisogynlag7@ptct.net	☐	☒
frbtMussabinikp@ptct.net	☐	☒

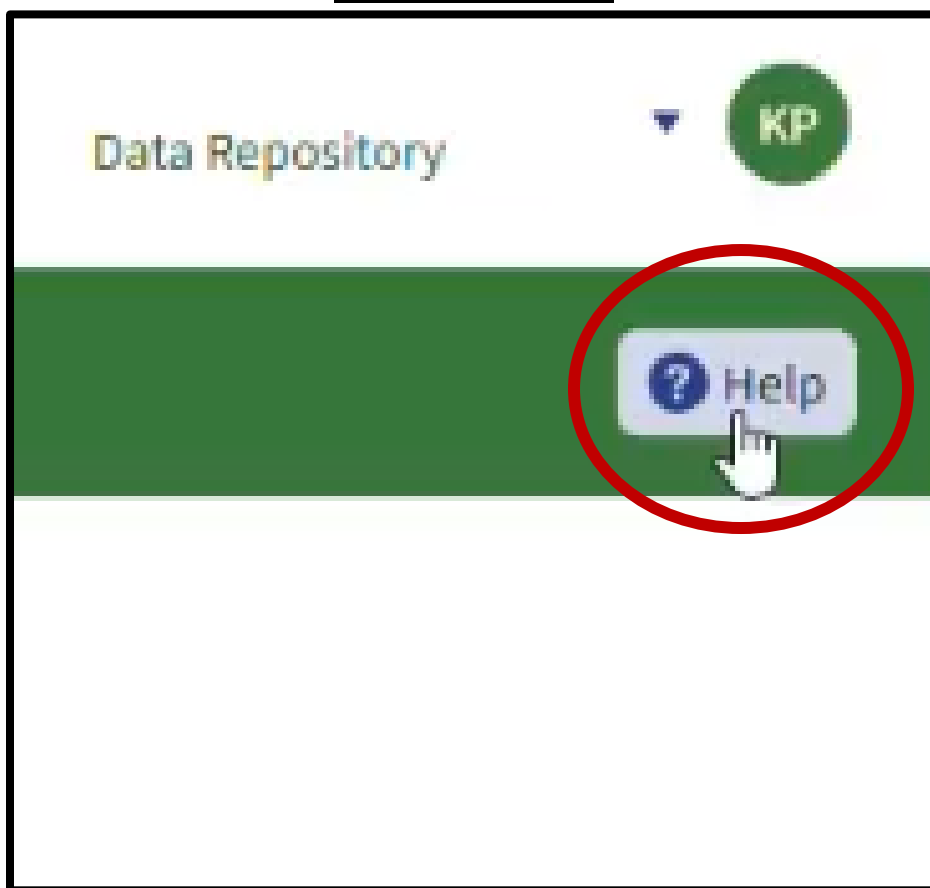
When the information has been added, select “save” or “cancel”.

This screenshot is identical to the previous one, but the 'Save' and 'Cancel' buttons are circled in red instead of the 'Add New User' button. The red arrow still points to the email input field.

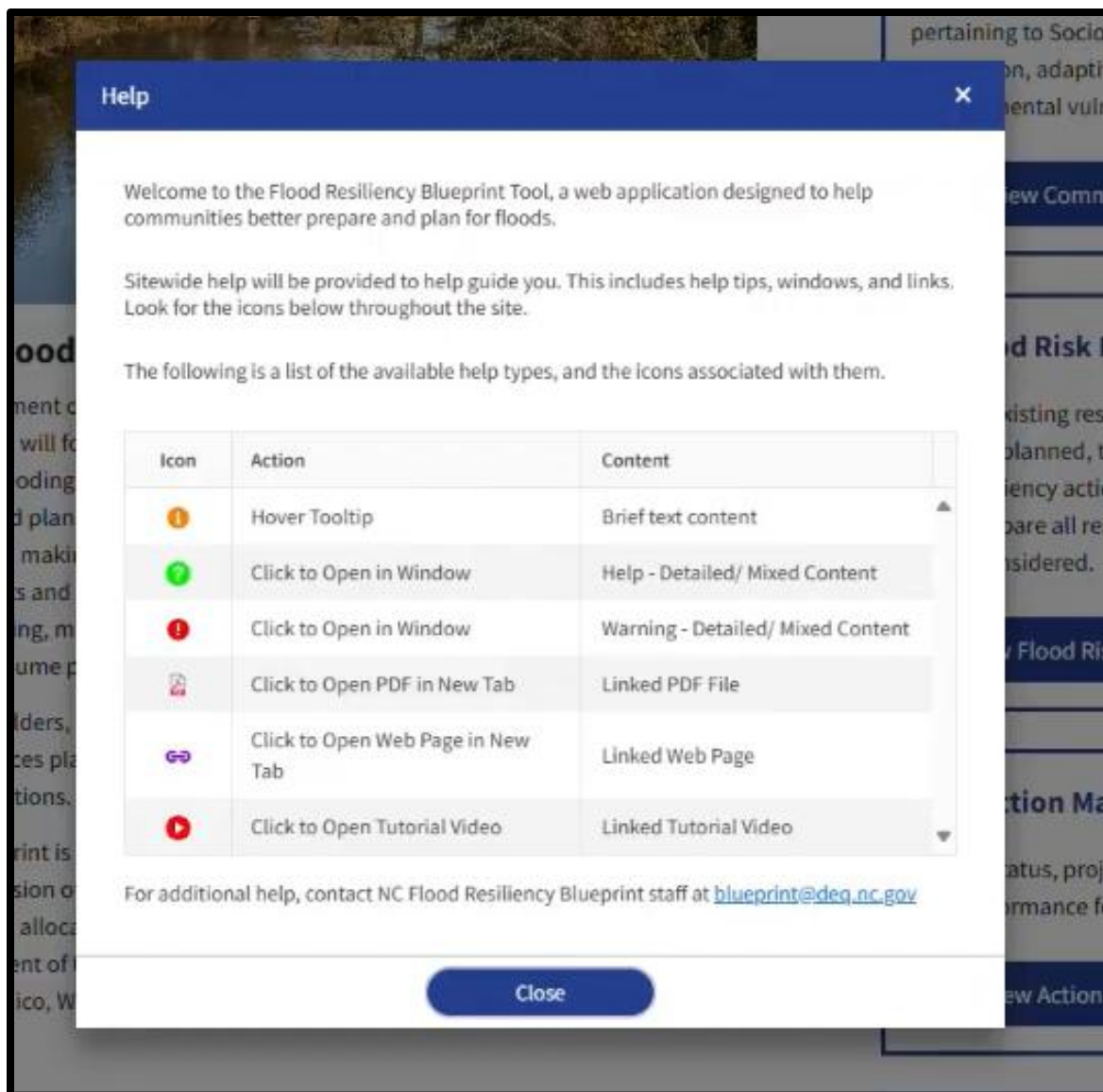
- After adding a new user, a small warning icon will appear next to their email. This indicates that they have not yet logged in to the blueprint tool. Until the user logs in, they will not be registered in the blueprint tool system. The symbol will disappear once they have logged in to the tool.



2. Help Tools:



To access the help tools, click the question mark icon in the upper right of the homepage under your initials.



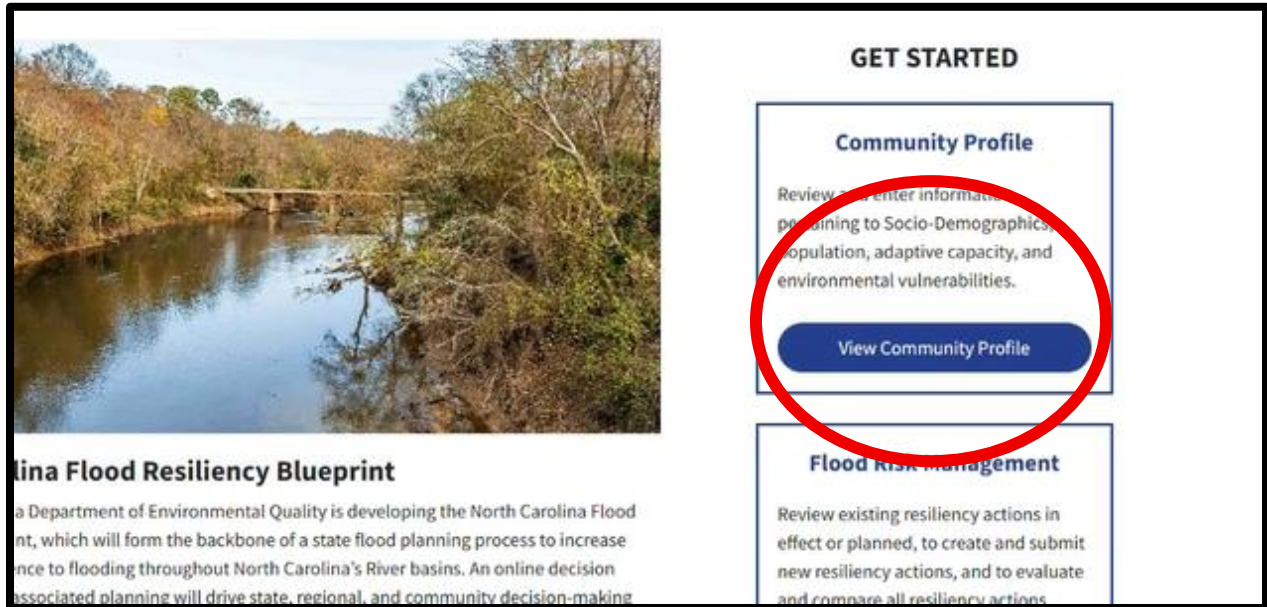
This will display the icons used to provide tips throughout the tool, as well as the email address for NC Flood Resiliency Blueprint staff at the bottom (blueprint@deq.nc.gov)

The help icons seen here, in order from top to bottom, are:

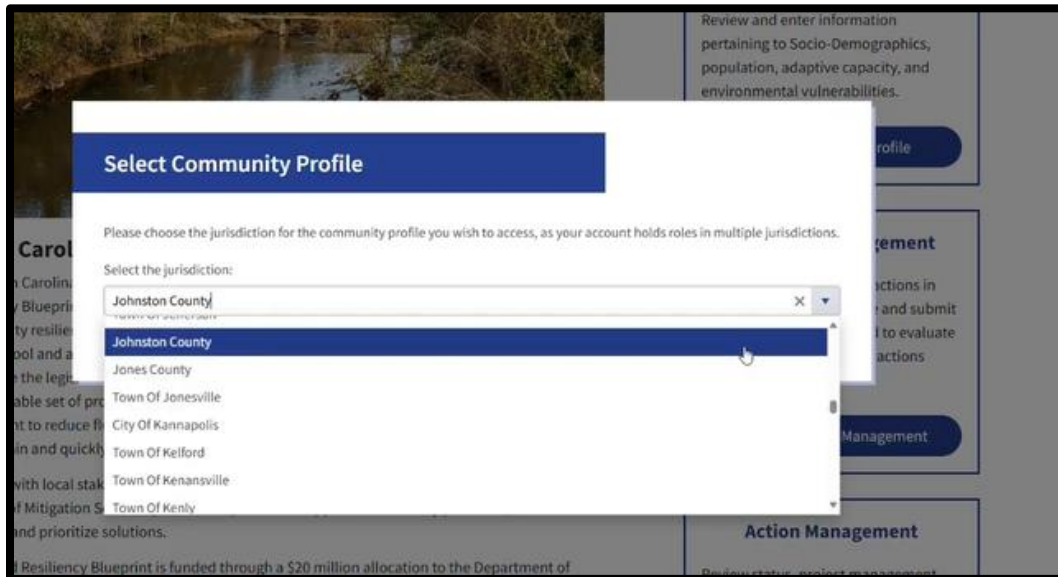
1. The “**Hover Tooltip**” icon (an orange icon with a letter i). If you hover the mouse over this icon when you see it in the blueprint tool, a tip will appear.

2. The “**Click to Open in Window Tip**” icon (a green icon with a question mark). Click this icon to for additional details or “mixed content” tips.
3. The “**Click to Open in Window Warning**” icon (a red icon with an exclamation point). Click this icon to see if an action may have unintended complications.
4. The “**Click to Open PDF in New Tab**” icon (a pdf symbol icon). Click this to link to a pdf file that will open in a new tab.
5. The “**Click to Open Webpage in New Tab**” icon (a purple link icon). Click this icon to be redirected to a webpage in a new tab.
6. The “**Click to Open Tutorial Video**” icon (a red circle with a white triangle icon). Click this to be redirected to a relevant YouTube tutorial video from this series.

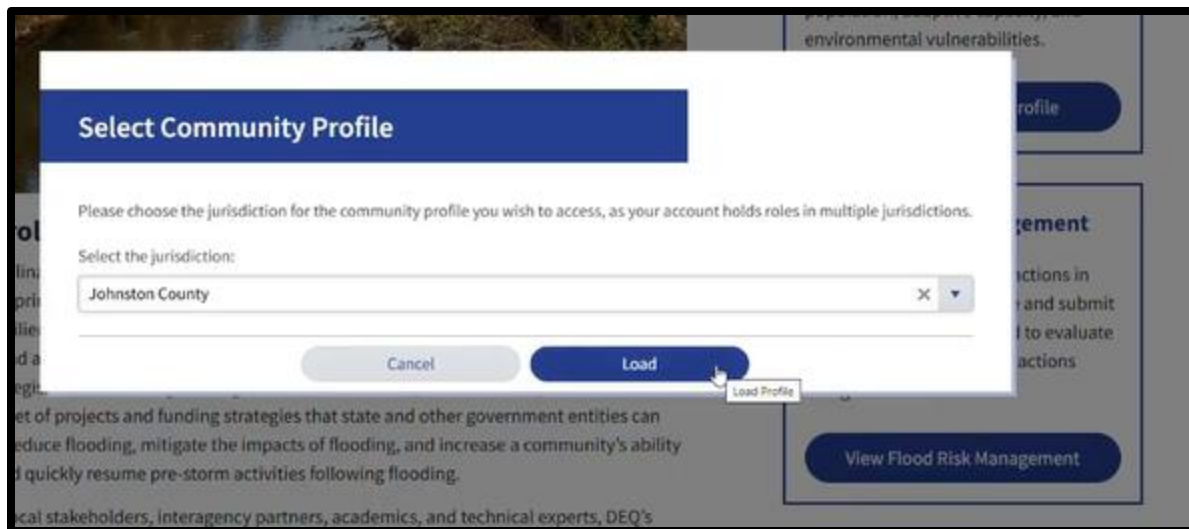
3.1 Community Profile Overview:



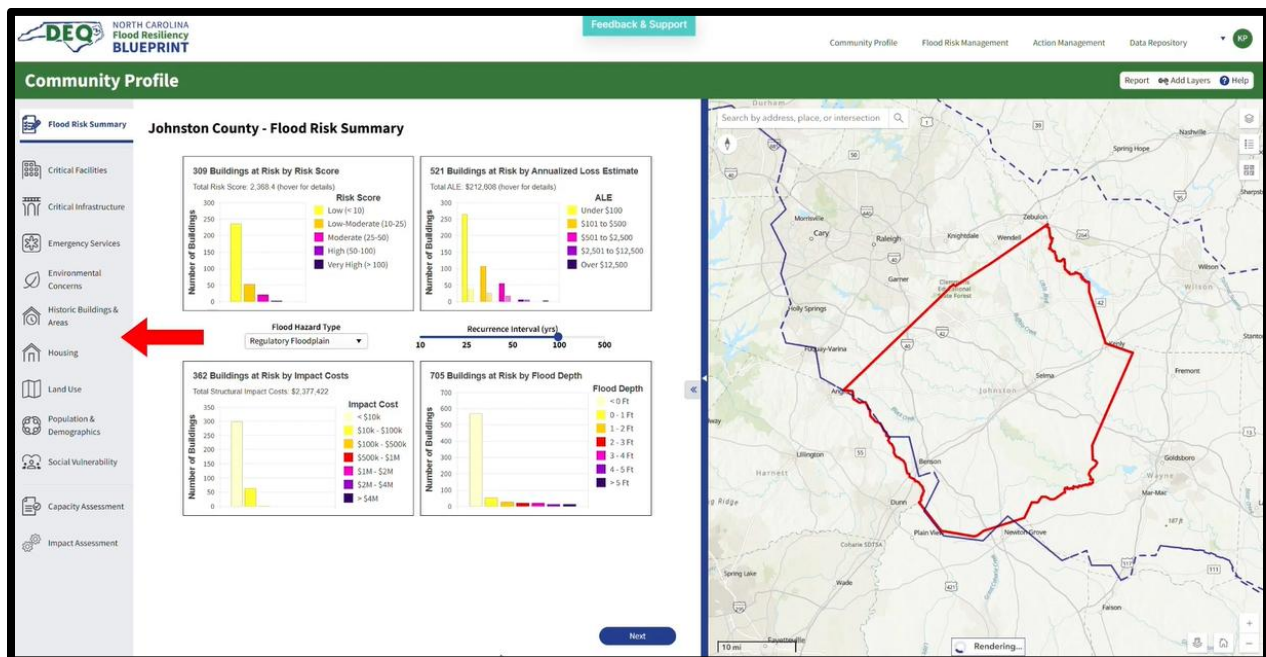
To view the Community Profile, click “View Community Profile” in the main blueprint webpage.



At this point you can select the jurisdiction you wish to view. If you select a jurisdiction that you are assigned to, you will be able to make changes to details.

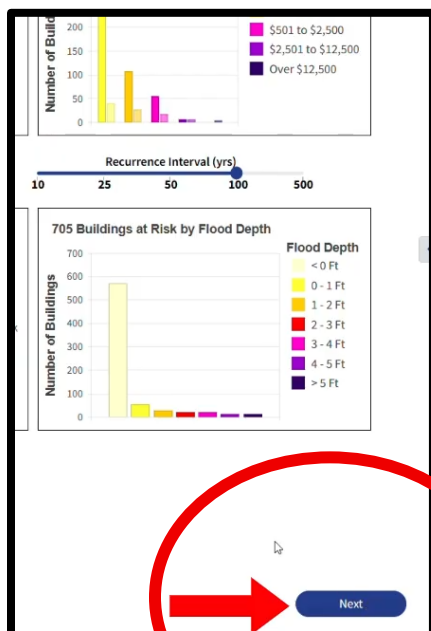


Once you select a jurisdiction, click “Load” and you will be taken to the community profile for that jurisdiction.

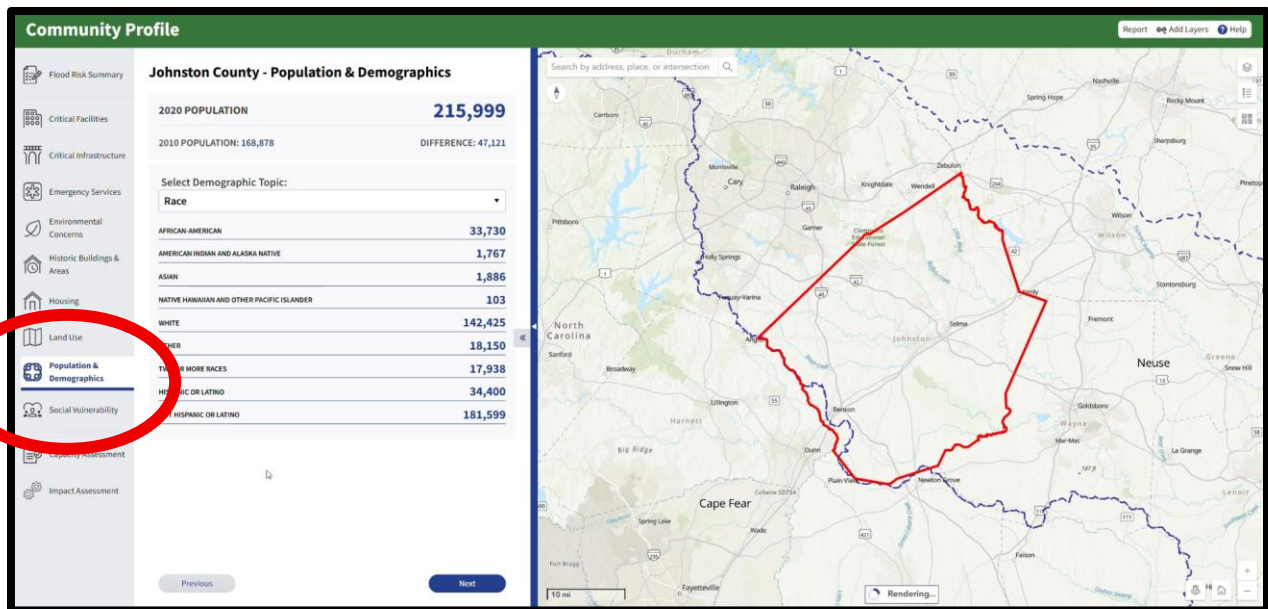




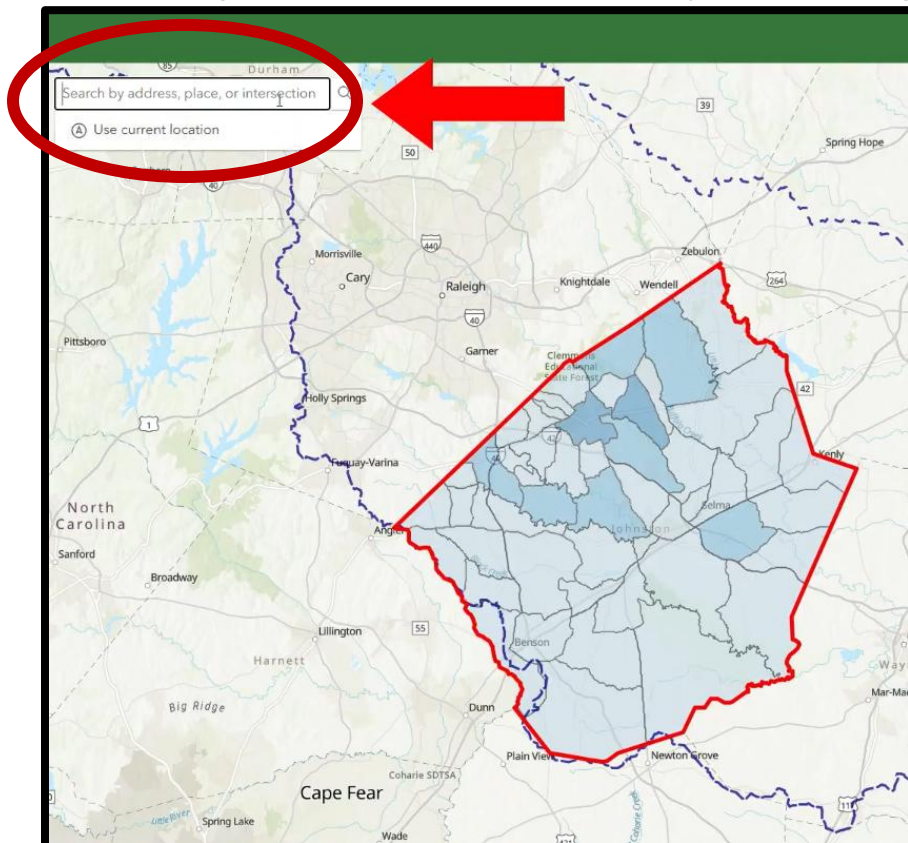
On the left-hand side of the page, you will see the **community profile navigation pane**. This is where you will explore the different sections in the community profile.



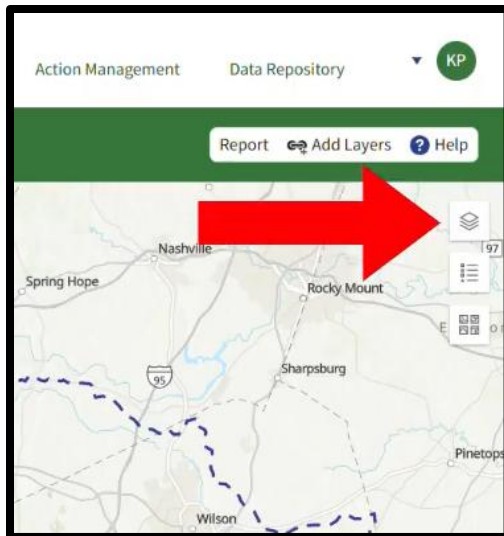
To navigate the Community Profile, you can click on any of the options in the community profile navigation pane or you can click “next” in the lower right corner to the left of the map.



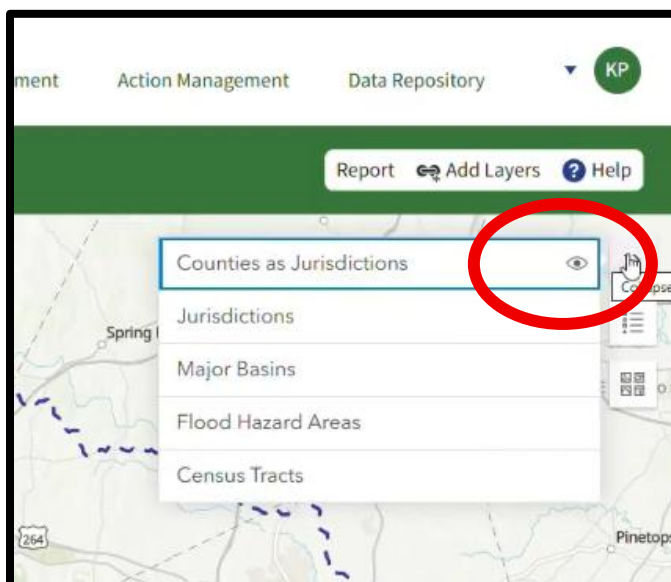
For example, this is the section that appears when you select “Population and Demographics” from the community profile navigation pane.



In the upper left corner of the map, you can search by address to view specific locations that you are familiar with.

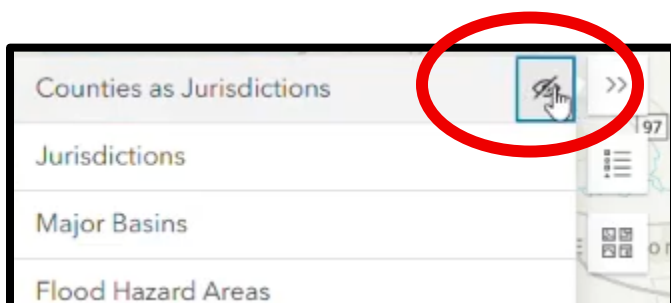


In the upper left corner of the map, you can click the stacked squares icon to view and select specific layers which you want to be visible on the map.



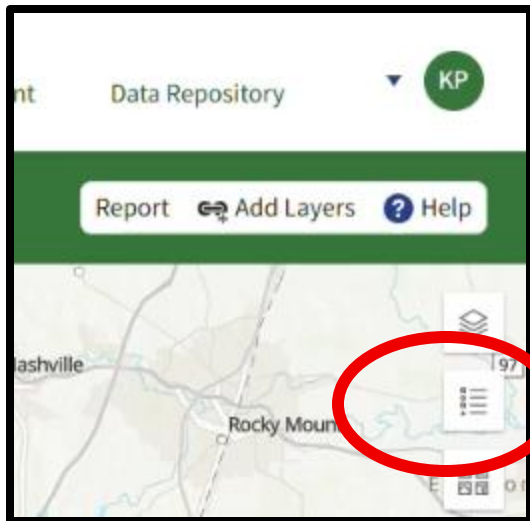
At this point, you will see the available layers listed with an eye symbol to the right. To make a layer of the map invisible, click the eye icon.

A line will appear through the eye icon to indicate that the layer is no longer visible.

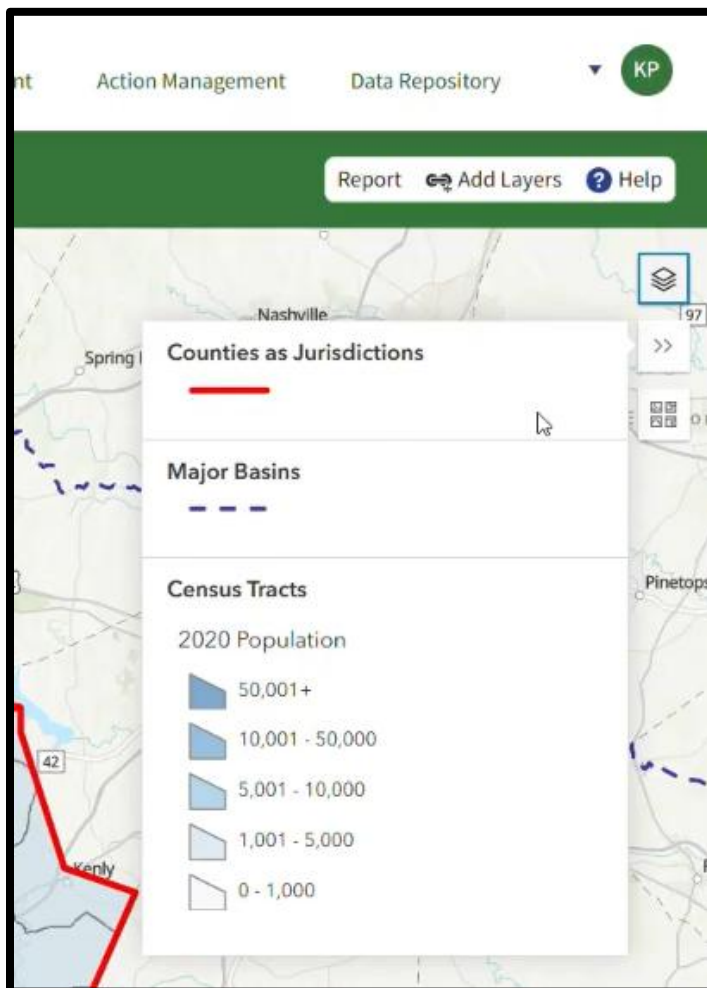


Invisible layers will have lines going through the eye icon.

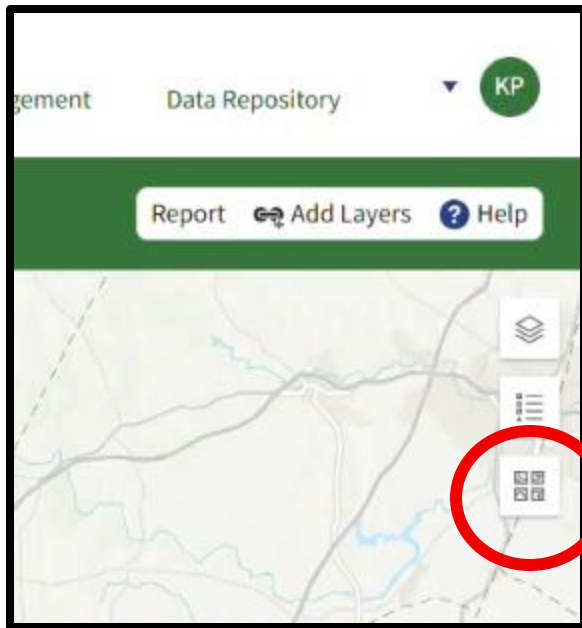
To make invisible layers visible, click the eye icon to the right. The line through the eye icon will disappear as the layer becomes visible.



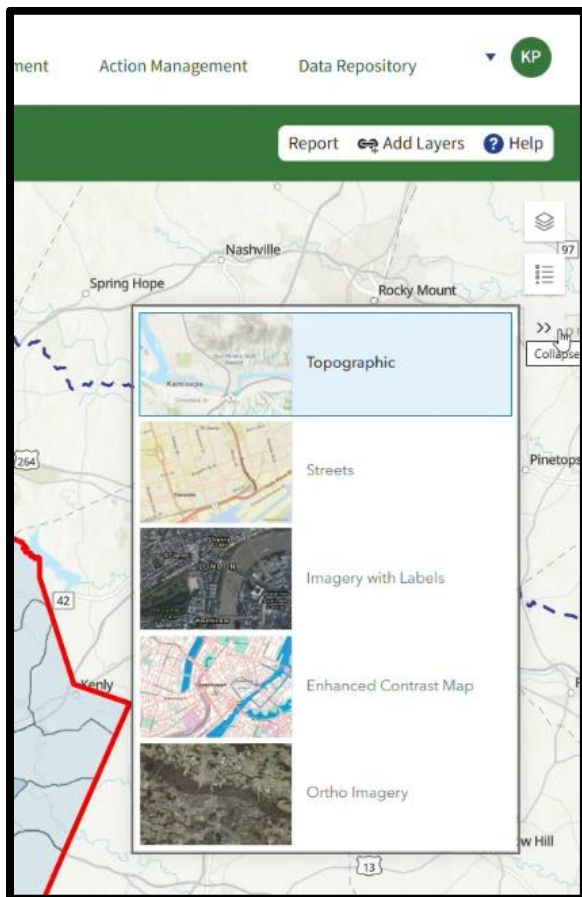
To view the legend, click the legend icon under the layers button.



The legend will allow you to view the meanings of symbols displayed on the map (lines, shapes, colors, etc...)



Adjust the basemap by selecting the basemap gallery button.



Basemap options include:

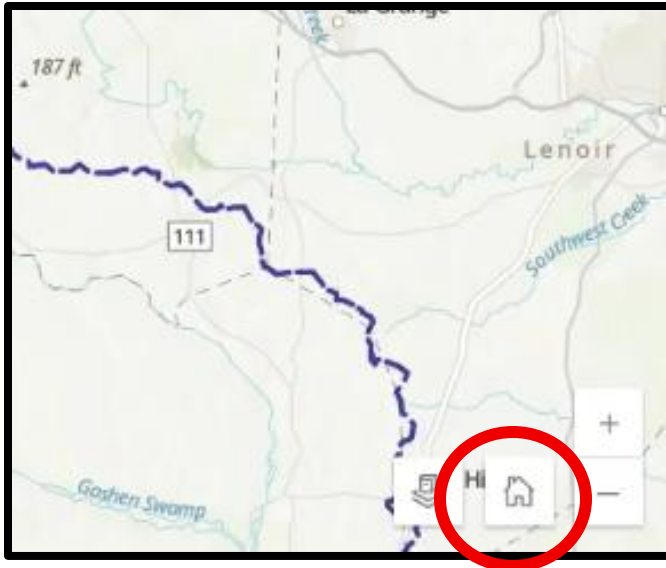
- Topographic Map
- Street Map
- Imagery with Labels Map
- Enhanced Contrast Map
- Ortho Imagery Map



To zoom in or out on the map, you can use the scroll wheel on the top of the mouse or you can click the zoom in button [+] and the zoom out button [-] found at the bottom right of the map.

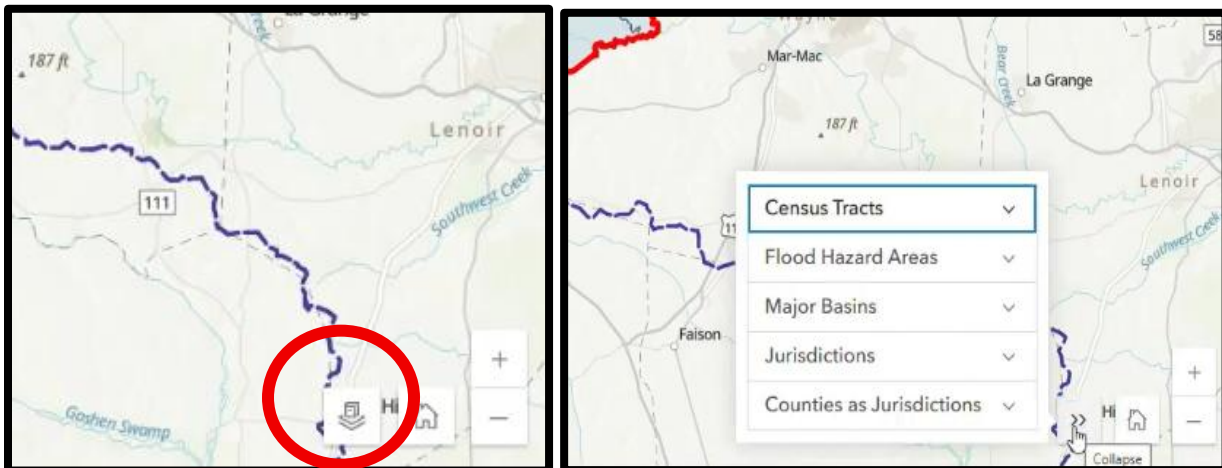


The map scale bar is located in the bottom left corner of the map.



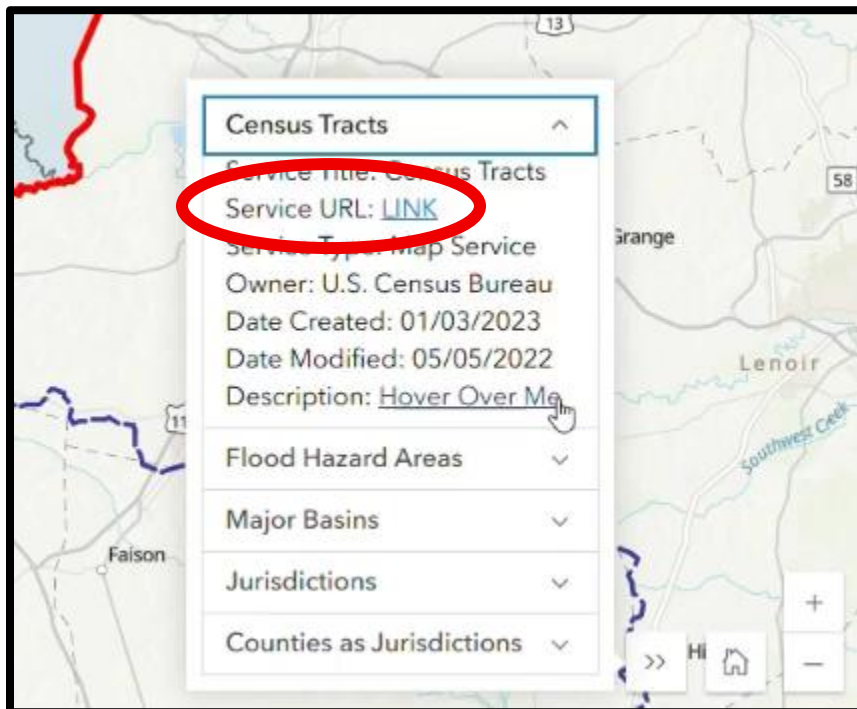
You can click the home button in the bottom right corner of the map to return to the jurisdiction which was most recently selected.

To view the sources of the layers, click the layer data sources icon next to the home button.



This is where you can expand the panels and review layer metadata.

For example, you can click on the drop-down arrow to the right of “Census Tracts.” This displays information on the Census Tracts used in the map, including a link to the Service URL.



If the service link is available, this is where you can find the service URL. If it is available, you can click the service URL to open the layer service page in a new tab.

This is an example of a Layer Service Page which opens in a new tab after clicking the Service URL link like the one indicated above. It includes the original source of the layer data.

ArcGIS REST Services Directory

[Home](#) > [services](#) > [TIGERweb](#) > [Tracts_Blocks \(MapServer\)](#) > [Census Tracts](#)

[JSON](#)

Layer: Census Tracts (ID: 10)

Parent Layer: [Census 2020](#)

Name: Census Tracts

Display Field: BASENAME

Type: Feature Layer

Geometry Type: esriGeometryPolygon

Description: Census Tracts - 2020 Census - January 1, 2020 vintage

Copyright Text: Source: U.S. Census Bureau

Default Visibility: true

MaxRecordCount: 100000

Supported Query Formats: JSON, geoJSON, PBF

Min Scale: 1400000.0

Max Scale: 1001.0

Supports Advanced Queries: true

Supports Statistics: true

Has Labels: false

Can Modify Layer: false

Can Scale Symbols: false

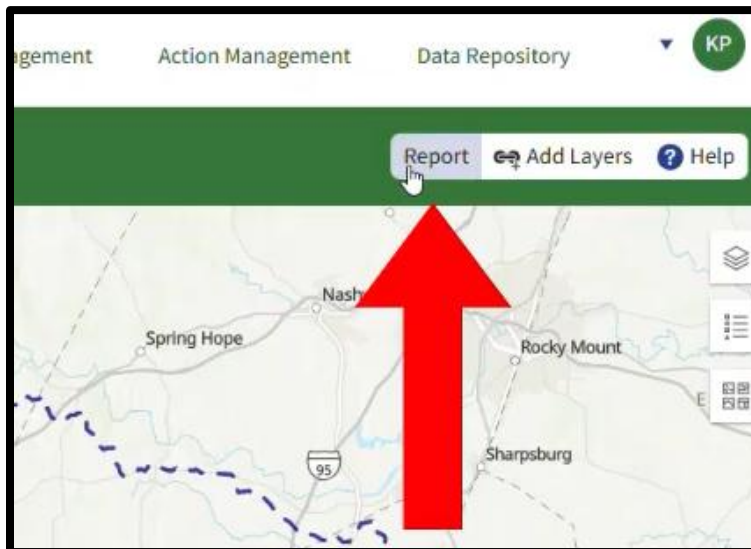
Use Standardized Queries: true

Supports Datum Transformation: true

Extent:

XMin: -1.99519132278E7
YMin: -1643352.8199
XMax: 2.00218881032E7
YMax: 1.155434835E7
Spatial Reference: 102100 (3857) LatestVCSWkid(0)

To generate a “community report”, click the Report Button.



This community report summarizes all of the information included in the Community Profile.

A screenshot of a web application showing a community profile report. The report is titled 'Johnston County Community Profile' and is dated 7/24/2025. It includes a 'Flood Risk Summary' section with a description of the Flood Risk Score methodology. Below this is a table titled 'Buildings at Risk by Risk Score' which shows the number of buildings at risk for different risk score ranges. The table has three columns: 'Range', 'Risk Score', and 'Buildings at Risk'. The data is as follows:

Range	Risk Score	Buildings at Risk
Low	< 10	235
Low-Moderate	10-25	52
Moderate	25-50	20
High	50-100	2
Very High	> 100	0
Total		309

Below this table is another section titled 'Buildings at Risk by Annualize Loss Estimate' with a description of the Annualized Loss Estimate methodology. This section includes a table with four columns: 'ALE Range', 'Residential Buildings at Risk', 'Non-Residential Buildings at Risk', and 'Total Buildings at Risk'. The data is as follows:

ALE Range	Residential Buildings at Risk	Non-Residential Buildings at Risk	Total Buildings at Risk
Under \$100	263	40	303

The community report can be opened as a pdf in a new tab. From there it can be exported and shared.

3.2 Flood Risk Assessment:



The Flood Risk Summary is divided into four metrics:

- **Risk Score** - (top left graph)
- **Annualized Loss Estimate** - (top right graph)
- **Buildings at Risk by Impact Cost** - (bottom left graph)
- **Buildings at Risk by Flood Depth** - (bottom right graph)

- **Risk Score Calculation:**

The “**risk score**” is calculated by dividing the “**annualized loss estimate**” by “**building replacement value**”. This removes cost from the calculation of flood risk, so any two buildings of the same size would have the same risk score in the same flood depth.

- **Annualized Loss Estimate:**

The annualized loss estimate represents the estimated amount of loss (in dollars) that a building is expected to have in any given year.

- **Buildings at Risk by Impact Cost:**

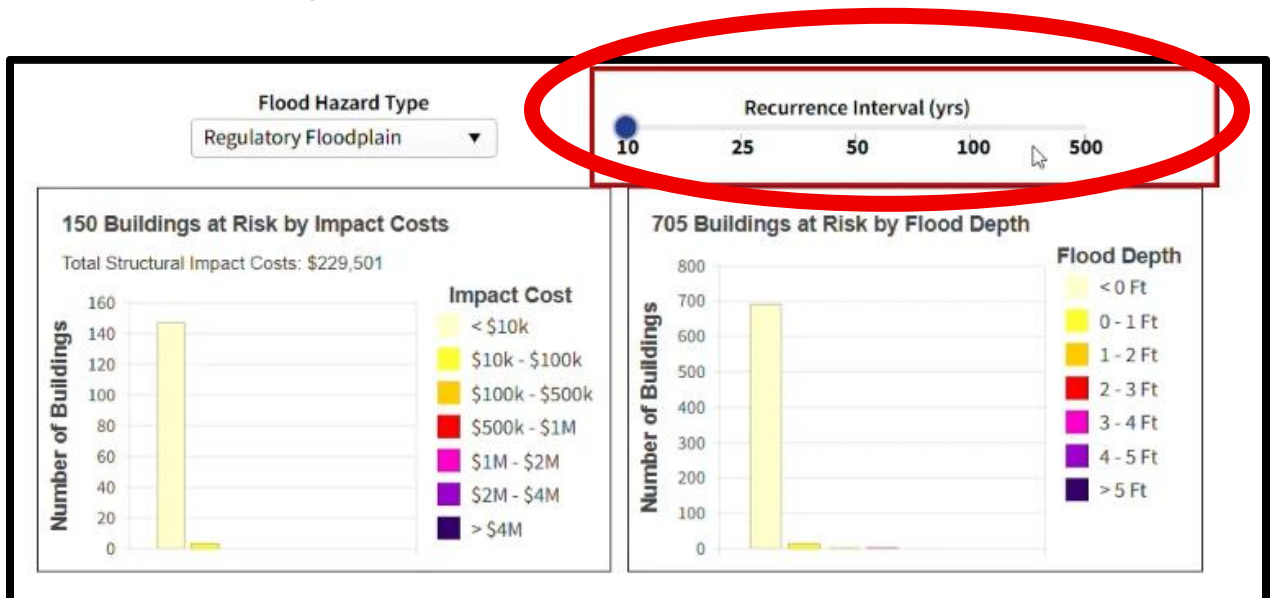
Demonstrates the estimated costs of damage to the buildings for the flood recurrence interval chosen.

- **Buildings at Risk by Flood Depth:**

Shows the estimated depth of water above the first-floor elevation during the selected flood event.



- **Risk Score** and **Annualized Loss Estimate** are not dependent on the recurrence interval. They will not change as the recurrence interval is changed.

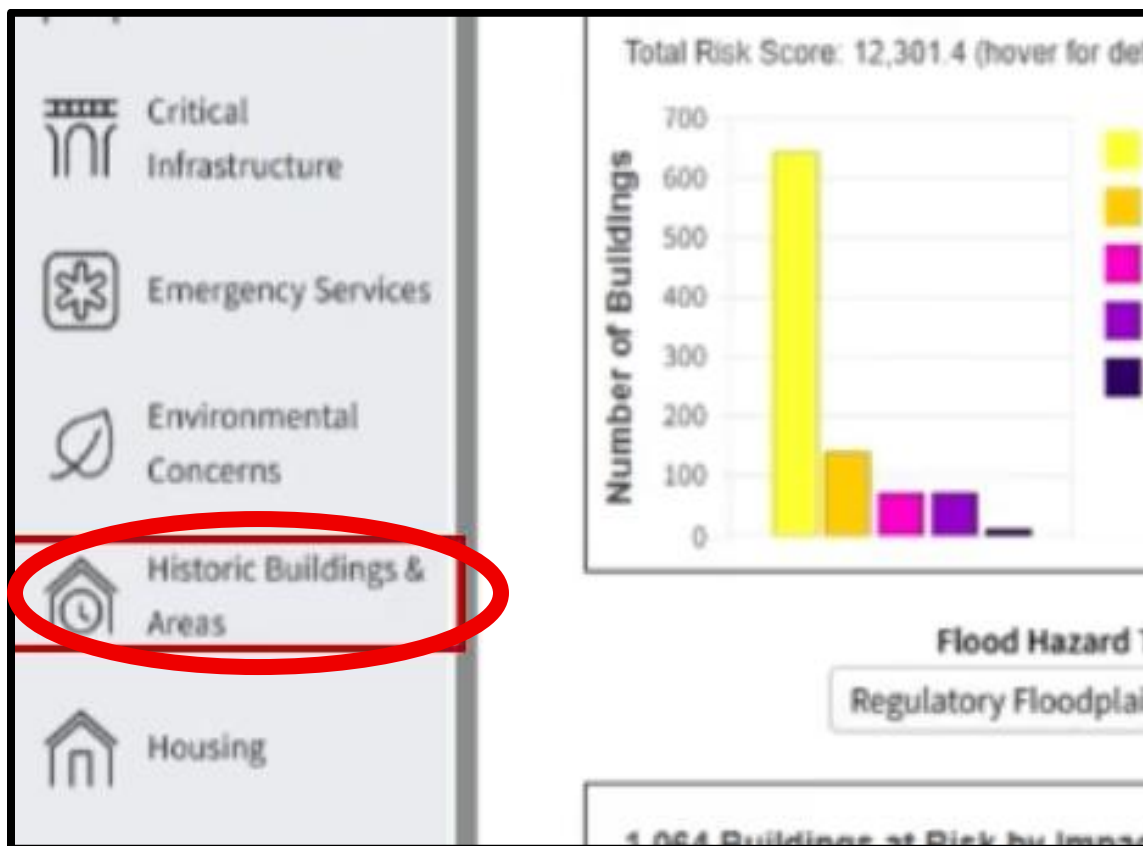


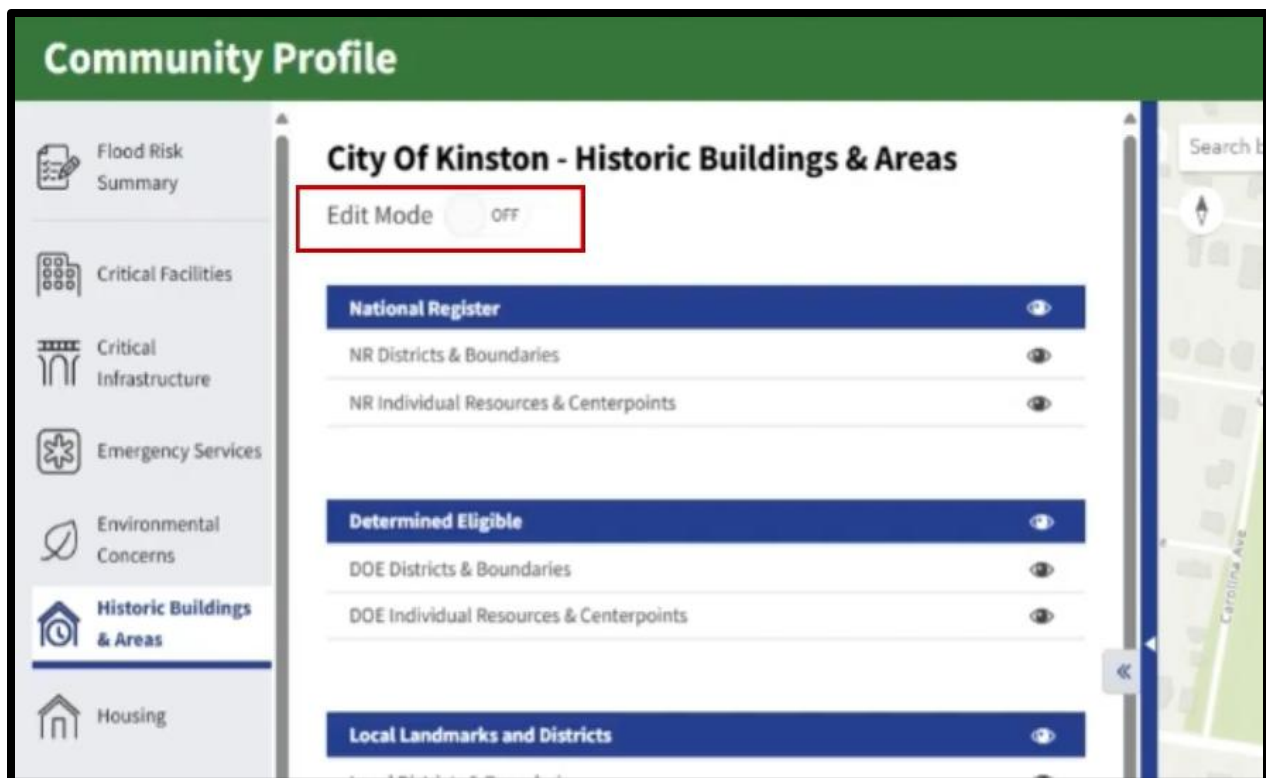
- The **buildings at risk by impact cost** and **buildings at risk by flood depth** are dependent on the recurrence interval chosen. As the recurrence interval is changed, the number of buildings impacted may go up or down depending on the frequency of the selected flood event.
- This is because changing the flood recurrence interval will impact flood depth.

- **Flood Depth**: Measured as depth of flooding above the first floor elevation

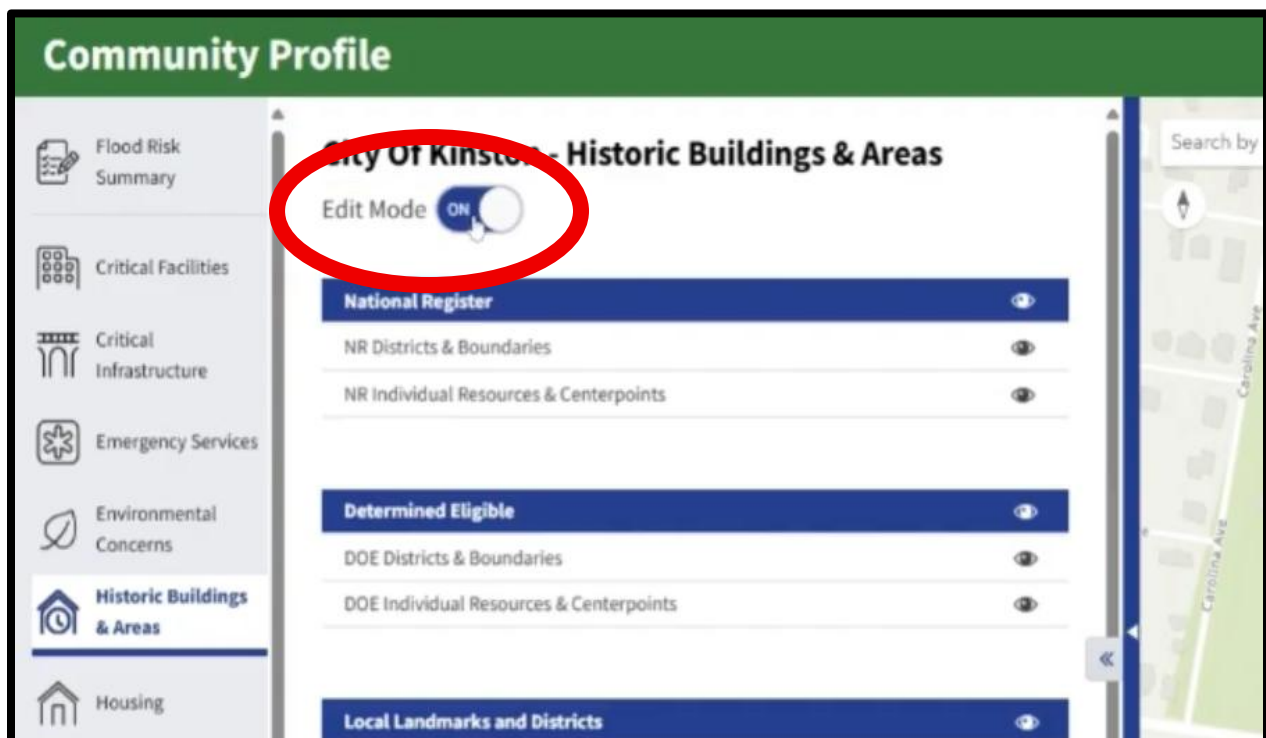
3.3 - Editing Community Profile Layers:

- After logging into the blueprint tool, and selecting the community profile, you can access various layers that are editable. These include critical facilities, critical infrastructure, historic buildings and areas, and housing.
- For this demonstration, you can begin by using “Historic Buildings and Areas” as an example for how to edit the Community Profile.

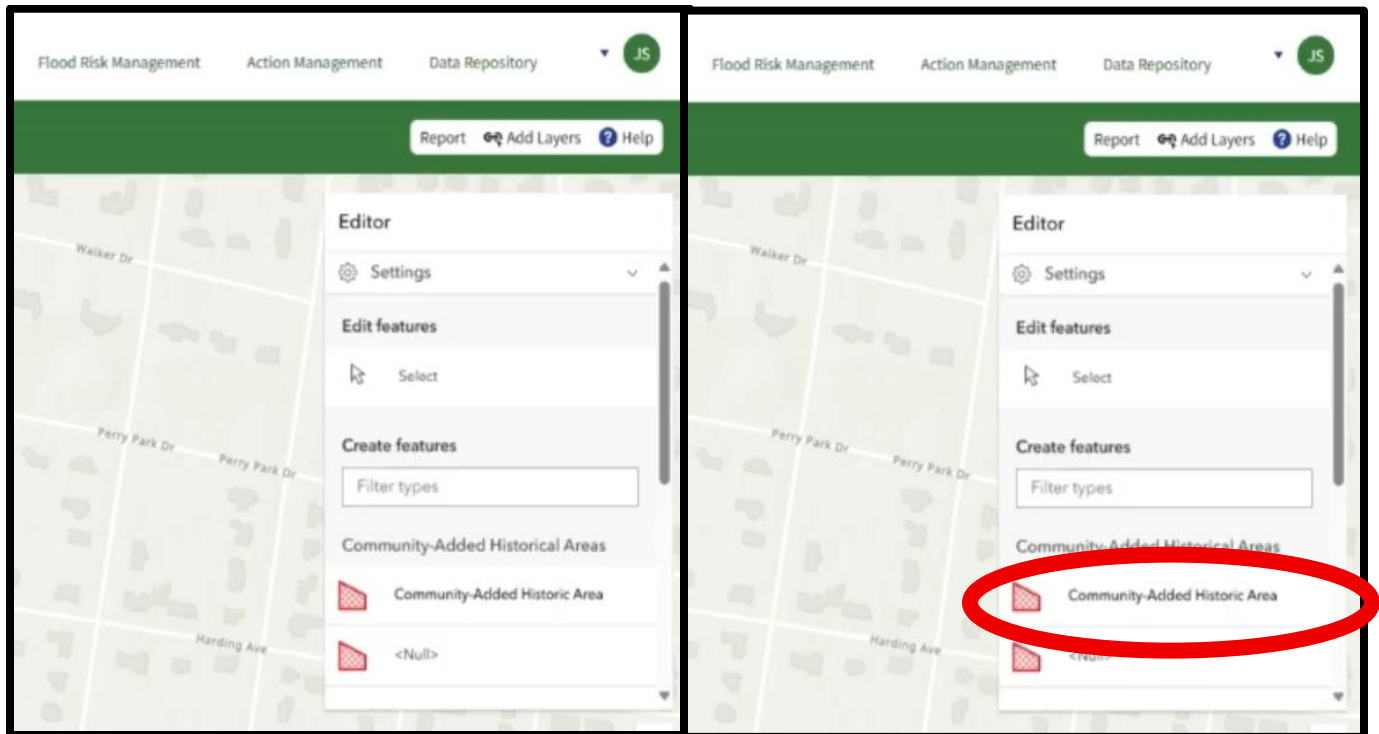




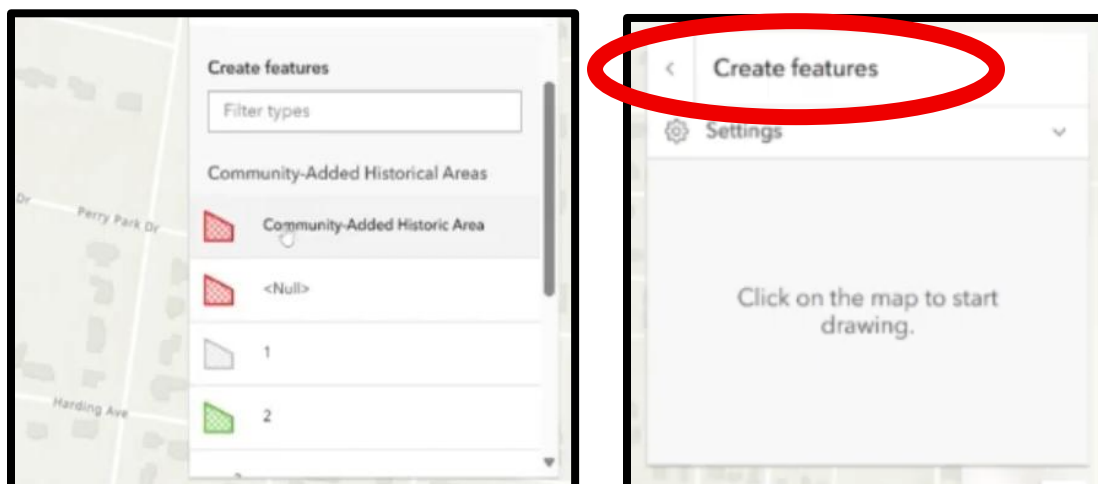
- If a user has an assigned role for their community, they will be able to turn on edit mode to add new features, but if a layer is not editable, the user will not be able to select features.



Switching edit mode on will cause these options to appear on the right of the webpage.



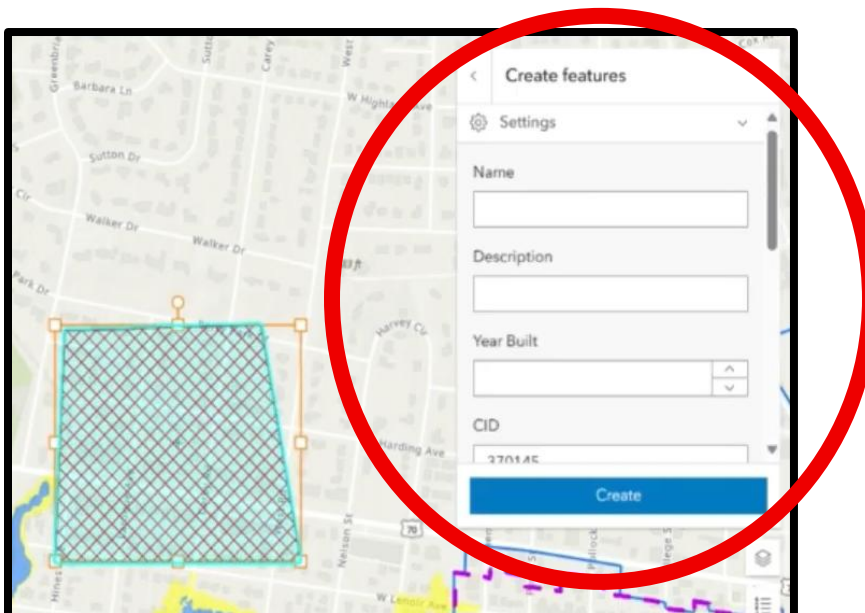
For this example, in the Historic Buildings and Areas Layer, you will create a Community-Added Historic Area. First, click Community Added Historic Area. An option will appear to “Create features”.



At this point, you can add a Community Added Historic Area by clicking on the corners of the area you want to add in the map.



Next, you can add details to the feature in the “create features” dashboard options which will appear to the right of the map.



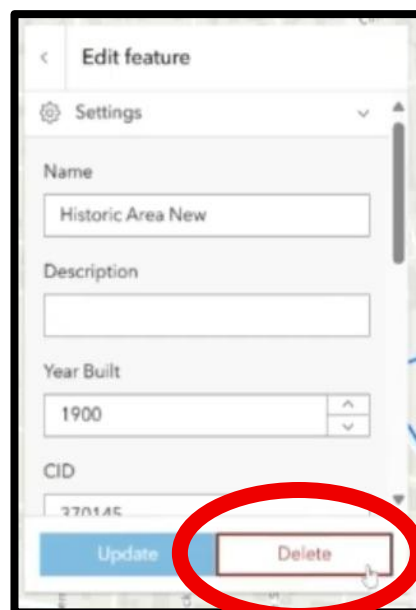
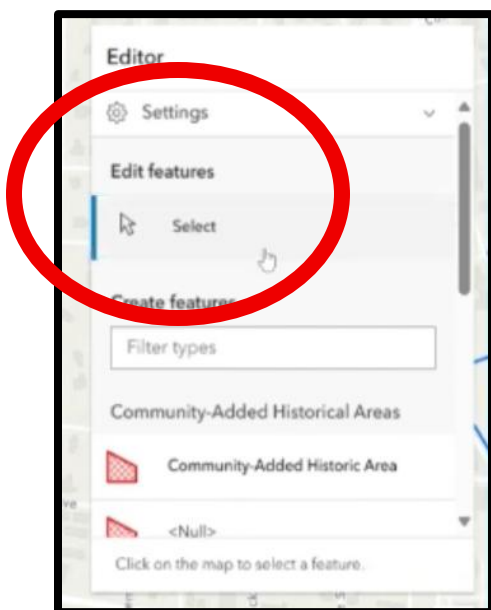
This description will include the name, description, year built, and community ID (CID) which will be automatically added by the blueprint tool.

Keep in mind that different editable feature layers will require different details for new features.

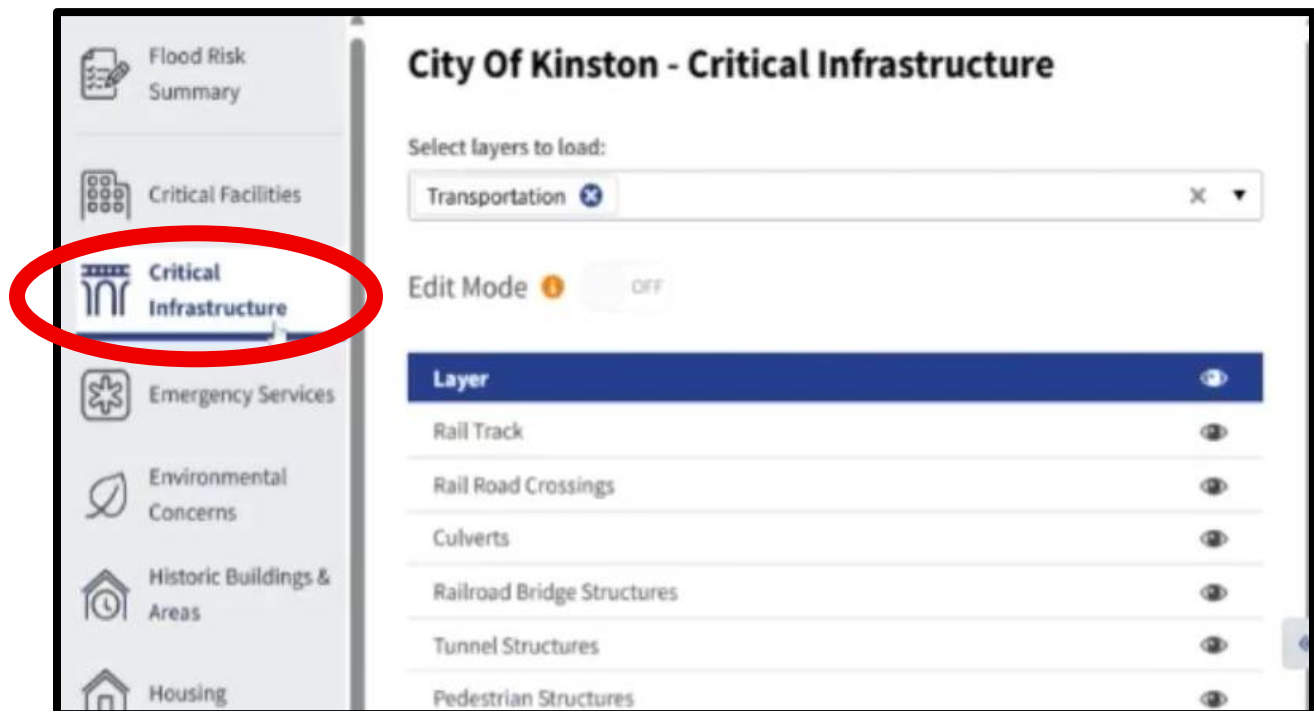
Once you input the required details, you can hit “create” and the feature will be added to the map.



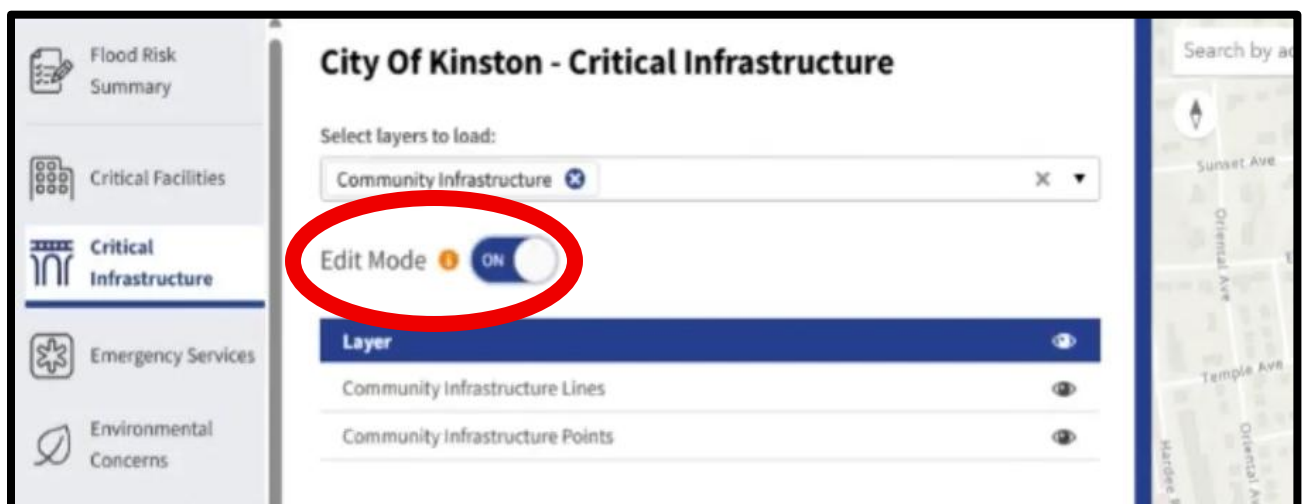
You can also remove features by selecting “edit features”, selecting the feature you want to remove and selecting “delete”.

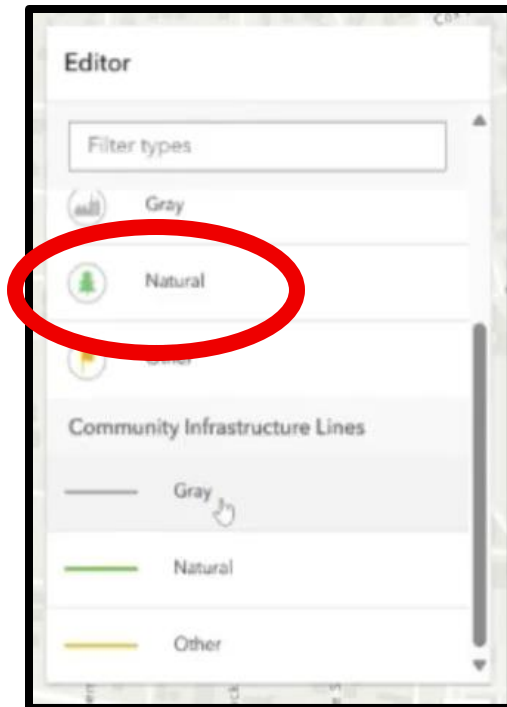


Next we can look at the “Critical Infrastructure” layer of the community profile.



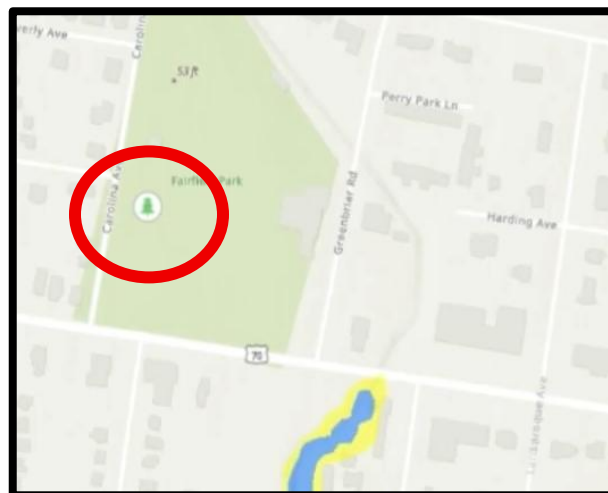
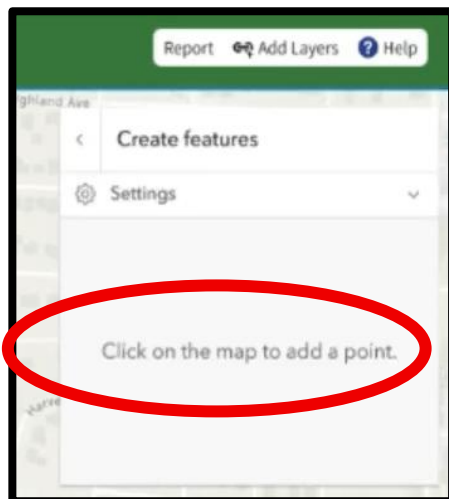
Once again, turn on “edit mode”





Select the kind of community infrastructure point you want to add. For this example, select a “natural” feature which is represented by a tree icon.

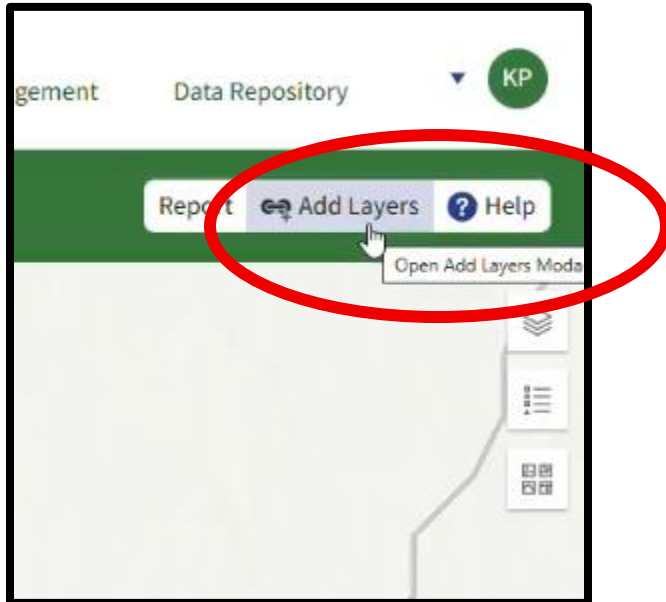
At this point you can add the point onto the map, fill out the description, and create the feature (following the same steps that are described in pages 37-38).



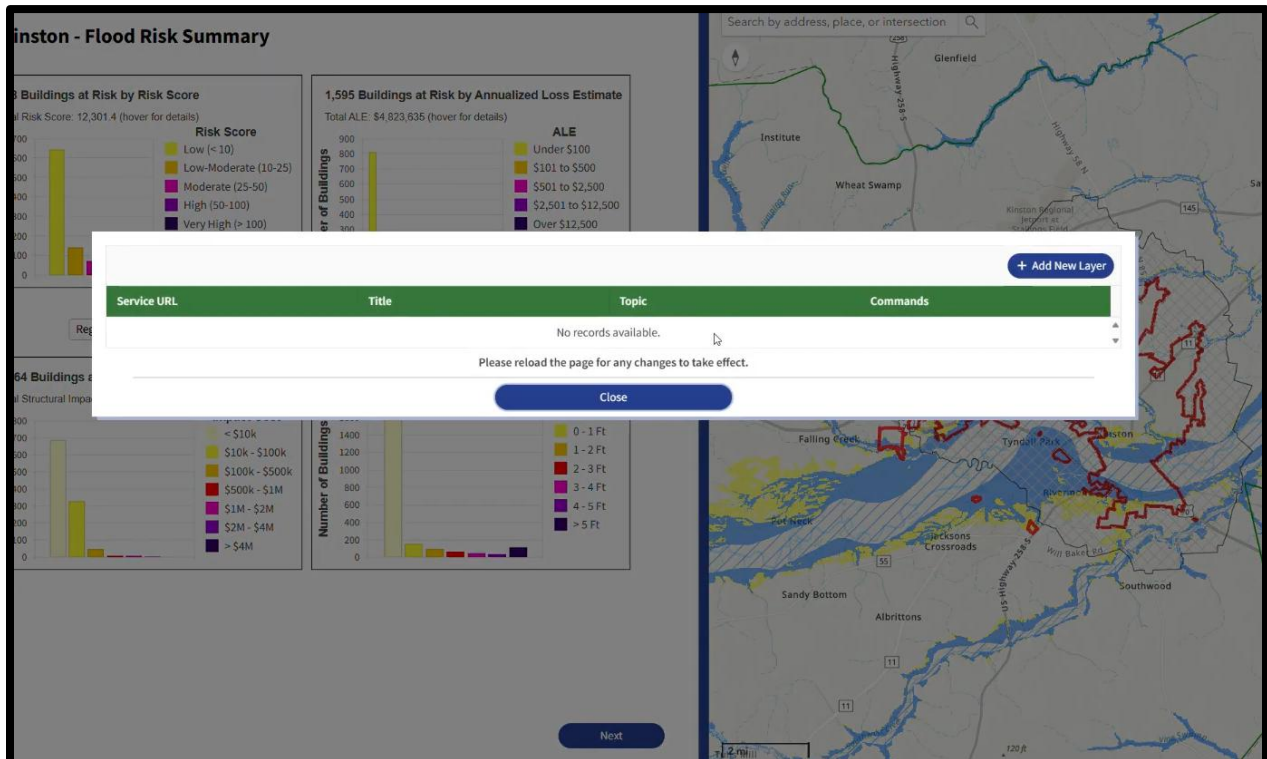
You can also delete infrastructure features by selecting the feature and clicking delete (using the same process described on page 38).

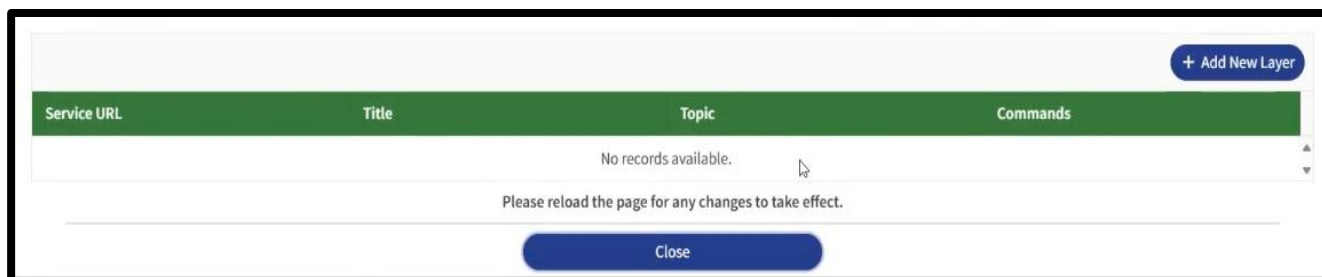
3.4 Adding Community Layers:

From your community profile, you are able to add your community's map layers. Simply go to the title bar and click the add layers button on the right side.

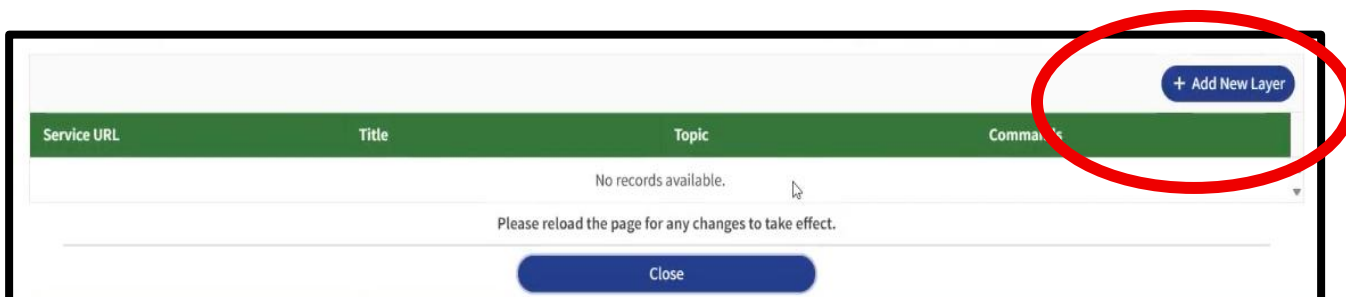


The community map layers window will open containing a table of your layers.

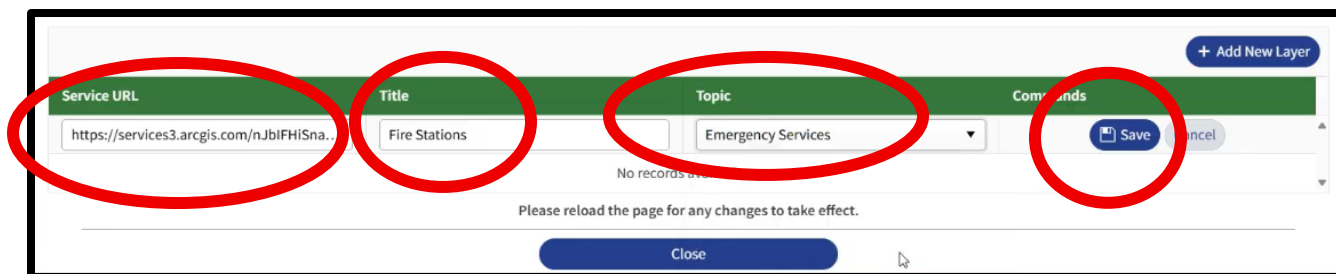




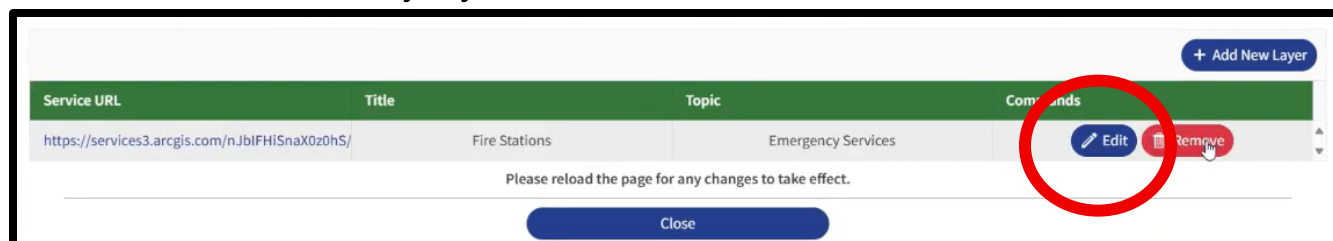
To add a new layer, click on the add new layer button in the upper right corner.



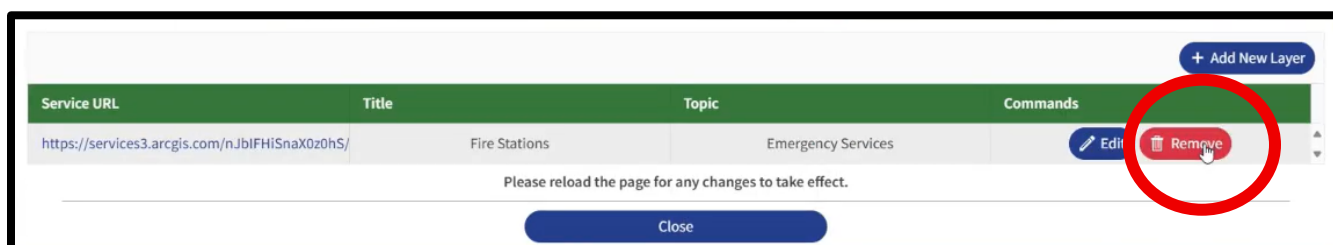
A new row will appear on the table. First, enter your service URL. Next, give your layer a name. Then, select the topic that your layer best fits within. Click the save button to complete.



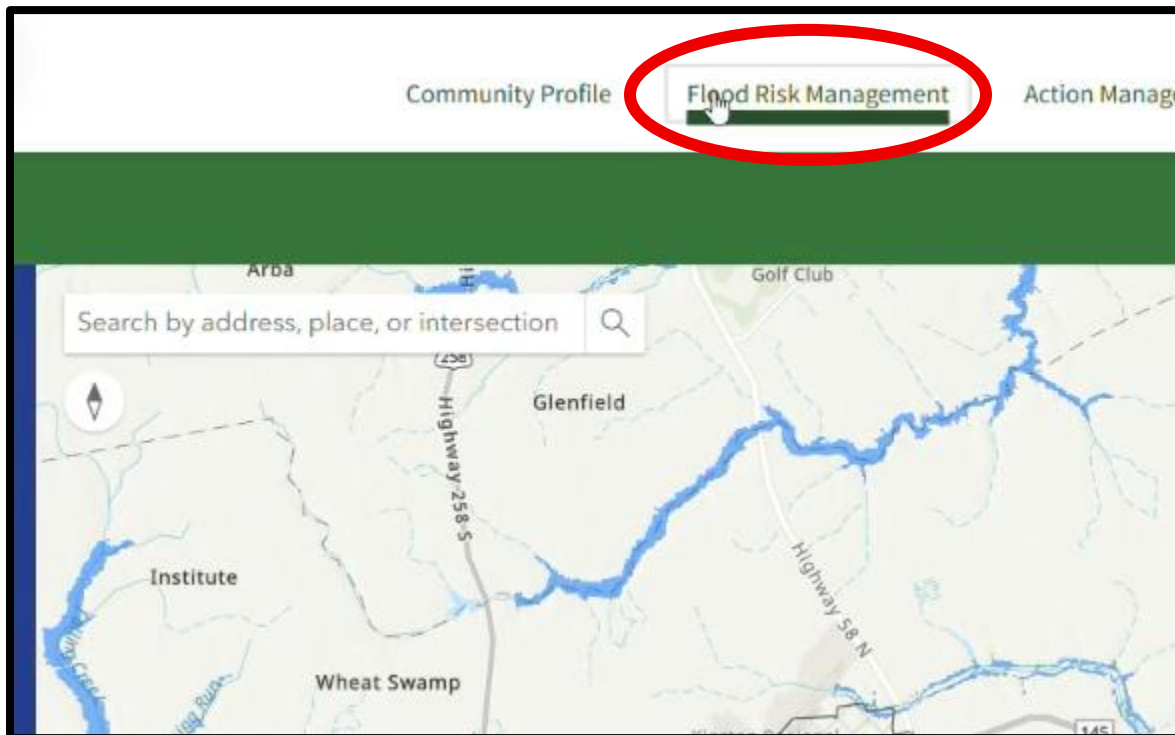
To edit the community layer, select the edit button.



To delete a layer, click the remove button on that layers row.



Your layer will now be available in the layer picker in the Flood Risk Management map.



Click on Flood Risk Management at the top of the web page. When you click it, “My Action Plans” will appear on the screen.

Profile

Report

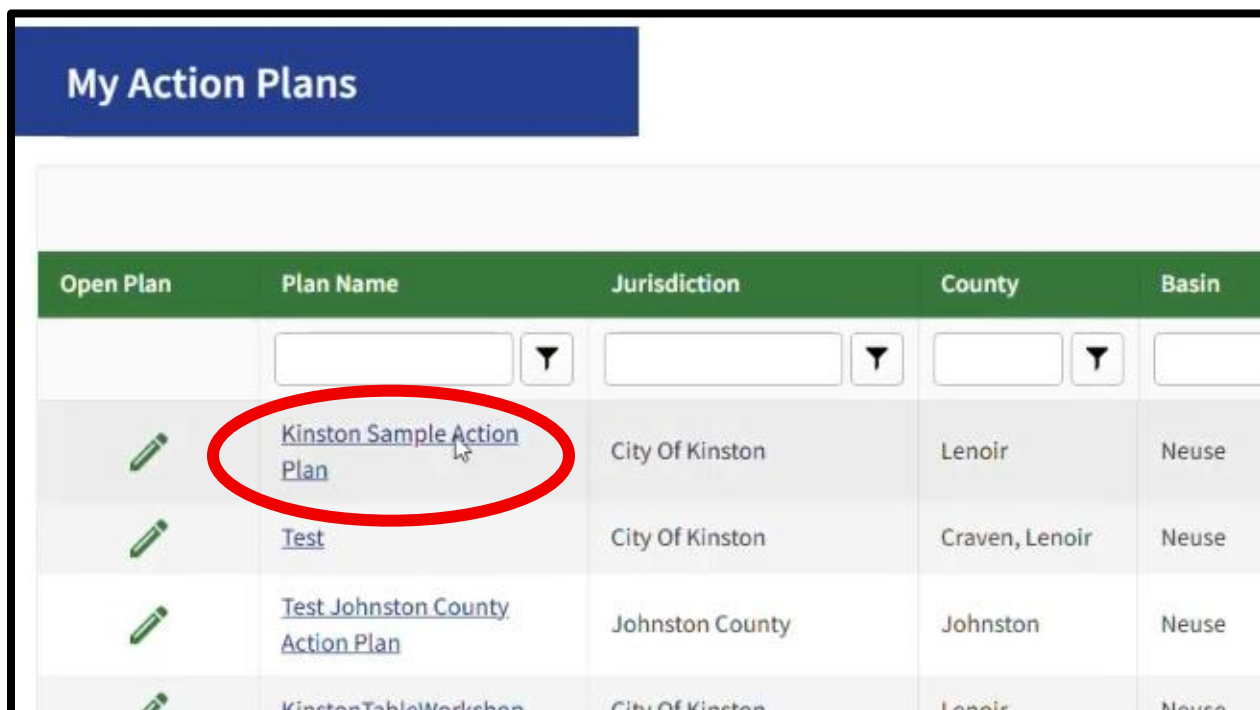
My Action Plans

+ Create Draft Action Plan

Open Plan	Plan Name	Jurisdiction	County	Basin	Description	Created By	Agency	Date Created	Modified By	Date Modified
	Kinston Sample Action Plan	City Of Kinston	Lenoir	Neuse		Judie Taylor	None	04/04/2025		
	Test	City Of Kinston	Craven, Lenoir	Neuse	Test	John Smith	None	04/07/2025		
	Test Johnston County Action Plan	Johnston County	Johnston	Neuse		John Smith	None	04/07/2025		
	KinstonTableWorkshop	City Of Kinston	Lenoir	Neuse		John Smith	None	04/07/2025		
	Jason's Master Plan	9 Jurisdictions	Craven	Neuse		John Smith	None	04/07/2025		
	Wayne County TEST	Wayne County	Wayne	Neuse		John Smith	None	04/07/2025		
	T's Wayne County Plan	Wayne County	Wayne	Neuse		John Smith	None	04/07/2025		
	City of New Bern	City Of New Bern	Craven	Neuse	Create a plan for flood resilience in the Neuse River Basin specifically New Bern.	Peyton campbell	None	04/07/2025		
	Huffman Wayne County	9 Jurisdictions	Wayne	Neuse	Wayne County Action Plan for	John Smith	None	04/07/2025		

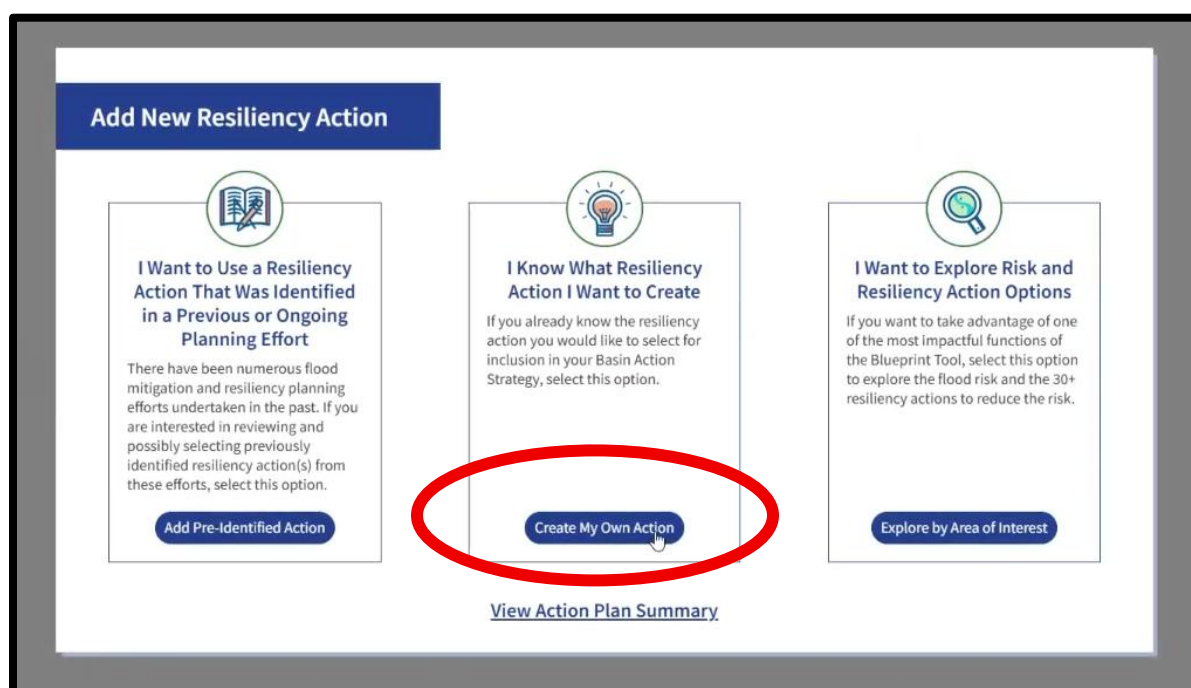
Close

Next, select the Action Plan that includes the jurisdiction in which the community layer was added. In this case, we will select the “Kinston Sample Action Plan” to view the new community layer.



My Action Plans				
Open Plan	Plan Name	Jurisdiction	County	Basin
	Kinston Sample Action Plan	City Of Kinston	Lenoir	Neuse
	Test	City Of Kinston	Craven, Lenoir	Neuse
	Test Johnston County Action Plan	Johnston County	Johnston	Neuse
	Kinston Tabletop Workshop	City Of Kinston	Lenoir	Neuse

After clicking the action plan for the correct jurisdiction, the “Add New Resiliency Action” options will appear on the screen. For this tutorial, select “Create My Own Action”



Add New Resiliency Action

I Want to Use a Resiliency Action That Was Identified in a Previous or Ongoing Planning Effort

There have been numerous flood mitigation and resiliency planning efforts undertaken in the past. If you are interested in reviewing and possibly selecting previously identified resiliency action(s) from these efforts, select this option.

[Add Pre-Identified Action](#)

I Know What Resiliency Action I Want to Create

If you already know the resiliency action you would like to select for inclusion in your Basin Action Strategy, select this option.

[Create My Own Action](#)

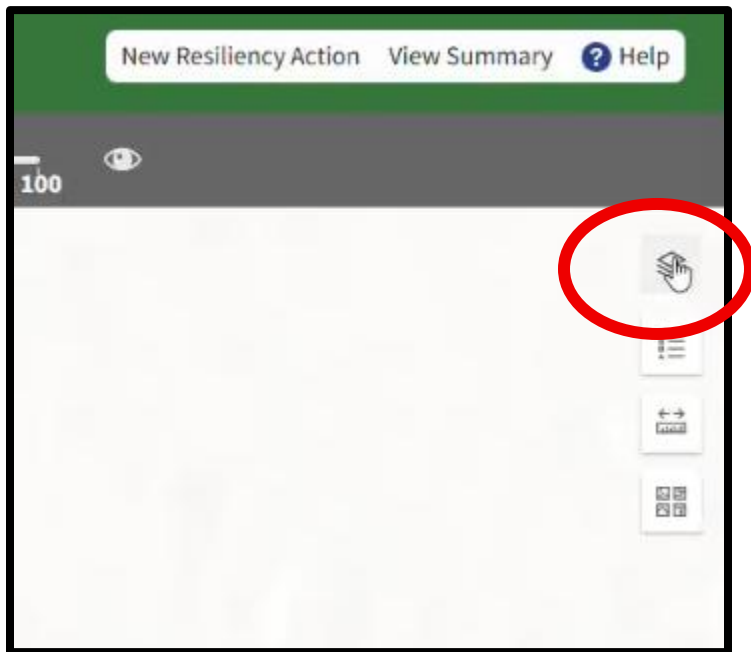
I Want to Explore Risk and Resiliency Action Options

If you want to take advantage of one of the most impactful functions of the Blueprint Tool, select this option to explore the flood risk and the 30+ resiliency actions to reduce the risk.

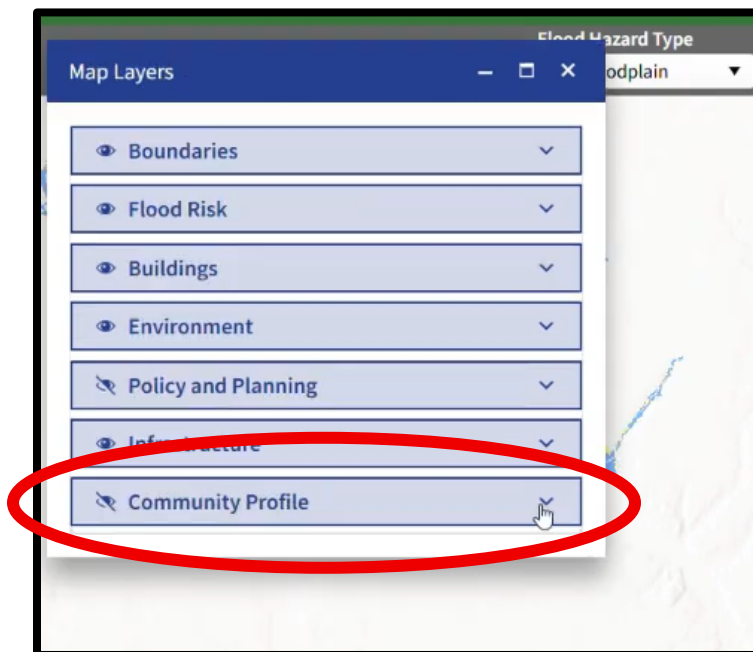
[Explore by Area of Interest](#)

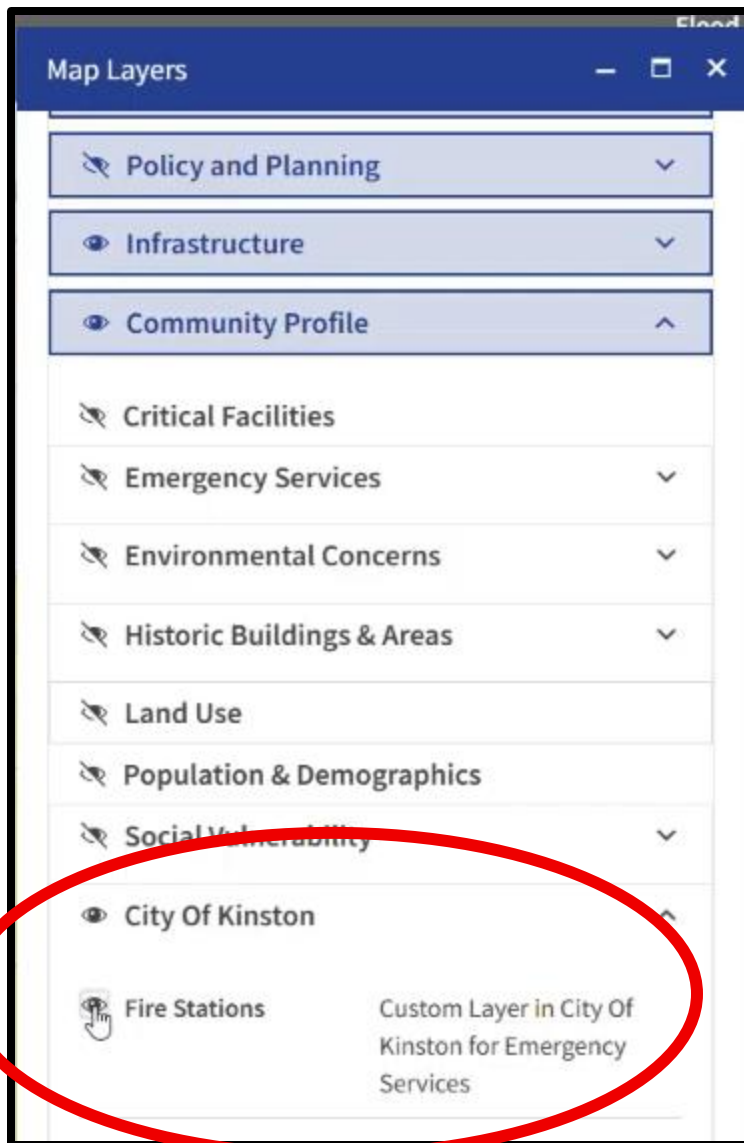
[View Action Plan Summary](#)

From here, select the layers icon in the upper right of the map.



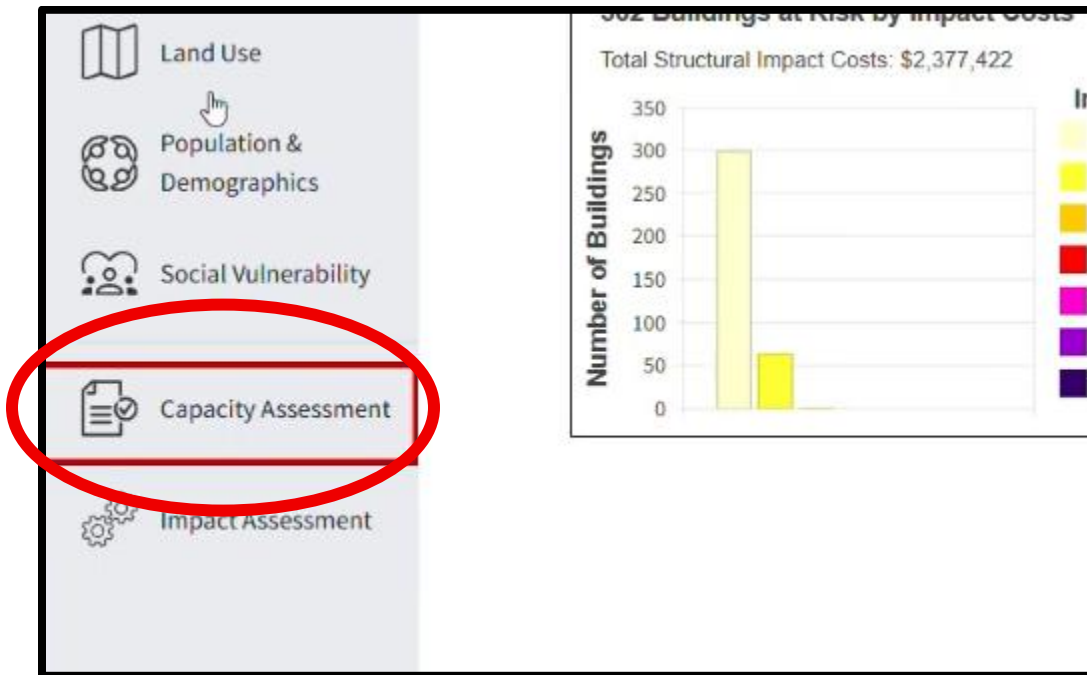
This will open "Map Layers". Select the drop-down arrow next to "Community Profile".



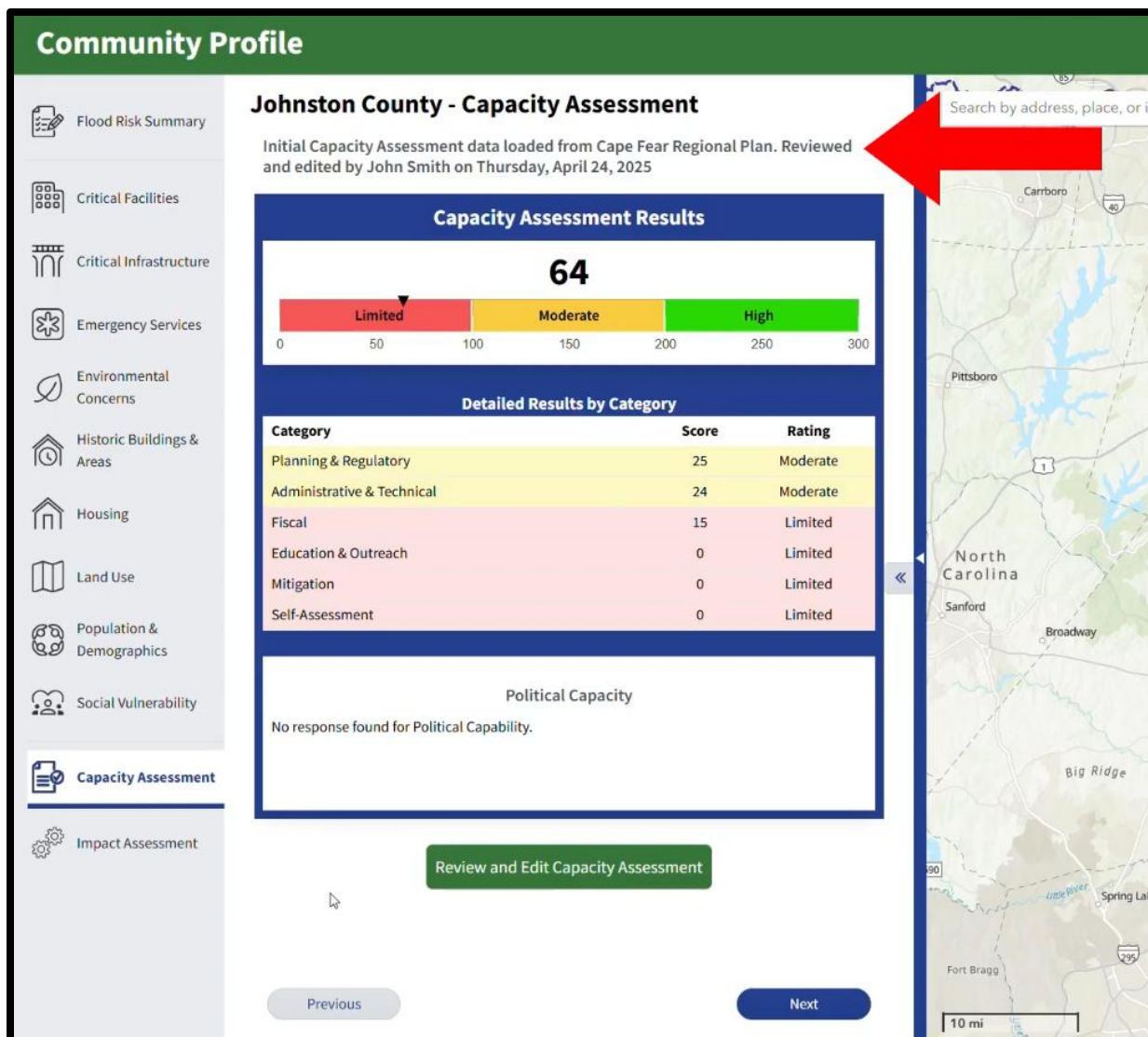


Find and select your jurisdiction to toggle your newly added community layer on and off in the map. To toggle layers, select the eye symbol next to the relevant layer. All of your newly added community layers will appear in this group.

3.5 Capacity Assessment

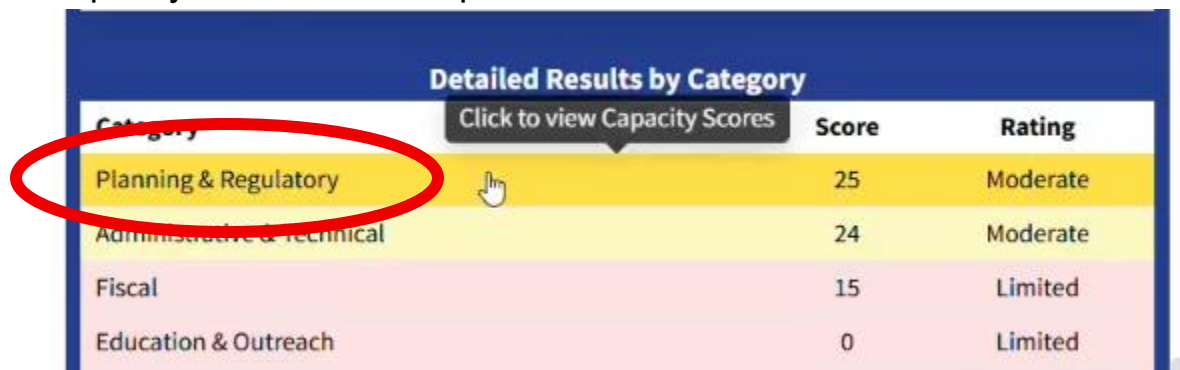


The community capacity assessment uses information provided by local governments that participate in the hazard mitigation planning process.



- Capacity information is collected from the most recent hazard mitigation plan for each jurisdiction, which is used to populate the initial community capacity assessment in the blueprint tool.
- Scores are calculated based on the capacity assessment of planning and regulatory administrative and technical, fiscal, education and outreach mitigation and overall capability self assessment. The responses to the capacity assessment are used to develop a score for each category.

If you select any of the categories, you can see the breakdown of the capacity assessment responses with the score effect on loss reduction and the weighted score. Let's select "Planning and Regulatory" to view the capacity assessment responses.

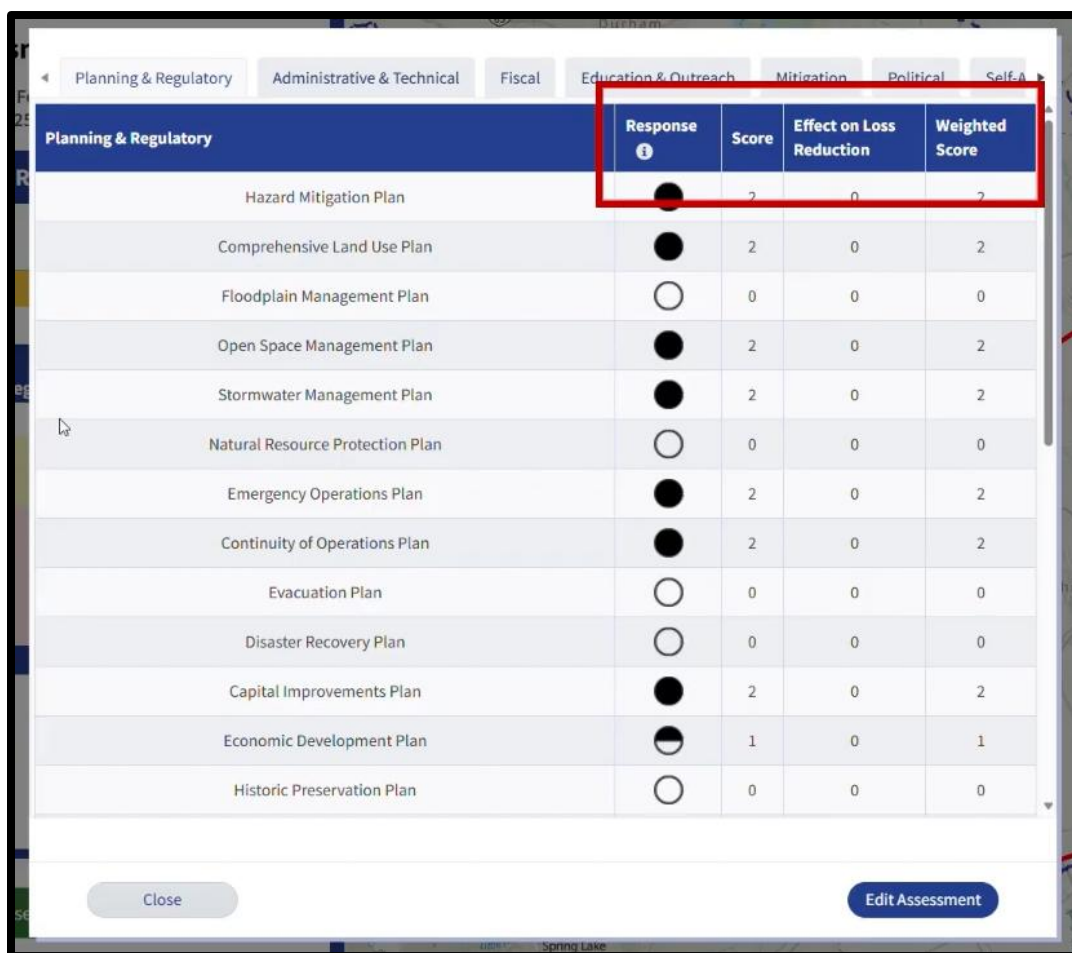


Detailed Results by Category

Click to view Capacity Scores

Category	Score	Rating
Planning & Regulatory	25	Moderate
Administrative & Technical	24	Moderate
Fiscal	15	Limited
Education & Outreach	0	Limited

Once you click the category, the capacity response information will appear in the webpage.



Planning & Regulatory

	Response	Score	Effect on Loss Reduction	Weighted Score
Hazard Mitigation Plan	☒	2	0	2
Comprehensive Land Use Plan	☒	2	0	2
Floodplain Management Plan	☐	0	0	0
Open Space Management Plan	☒	2	0	2
Stormwater Management Plan	☒	2	0	2
Natural Resource Protection Plan	☐	0	0	0
Emergency Operations Plan	☒	2	0	2
Continuity of Operations Plan	☒	2	0	2
Evacuation Plan	☐	0	0	0
Disaster Recovery Plan	☐	0	0	0
Capital Improvements Plan	☒	2	0	2
Economic Development Plan	☒	1	0	1
Historic Preservation Plan	☐	0	0	0

Close Edit Assessment

Here you can see what the different circles mean:

- A filled in circle means the action is currently in place and being implemented.
- A half- filled circle means that the action is currently under development for future implementation.
- A circle with a line in the middle means that the action is already covered by another entity.
- A blank circle means that the action is not in place or is not included.

You can view all the categories by clicking on the different tabs up at the top.

Planning & Regulatory

Administrative & Technical

Fiscal

Education & Outreach

Mitigation

Political

Self-A

Administrative & Technical	Response	Score
Planners with knowledge of land development and land management practices	●	3
Engineers or professionals trained in construction practices related to buildings and/or infrastructure	●	3
Planners or engineers with an understanding of natural and/or human-caused hazards	●	3
Building Official	○	0

Users with assigned roles in a community can make changes in the responses and edit the capacity assessment details. You can adjust responses by selecting edit assessment in the bottom right corner of the window.

The screenshot displays a web application interface for a Capacity Assessment. At the top, there is a navigation bar with tabs: Planning & Regulatory, Administrative & Technical, Fiscal, Education & Outreach, Mitigation (selected), Political, and Self-A. Below the navigation bar is a table with the following structure:

Mitigation	Response	Score
Do you apply for mitigation grant funding?	☐	0
Do you perform reconstruction and/or retrofit projects?	☐	0
Do you perform building elevations?	☐	0
Do you perform acquisitions and/or provide relocation assistance?	☐	0
Other: please include a brief description in the comment box provided		
Data: Share your thoughts and insights on the data presented. Are there areas that need improvement or additional information?		N/A
"Other" Responses: If you answered "other" to any questions, please specify and elaborate on your responses here.		N/A
Web Application Functionality: Let us know about your experience using the Capacity Assessment. Were there any issues or suggestions for enhancing its usability?		N/A

At the bottom of the interface, there are two buttons: "Close" and "Edit Assessment". The "Edit Assessment" button is highlighted with a red circle.

After adjusting the response, select “Save and Close” to save all changes.

	Action is currently in place and being implemented	Action is currently under development for future implementation	Action is covered for that item under a county, regional, or other larger entity-implemented version	Not in Place/Included
Do you apply for mitigation grant funding?	☐	☐	☐	☒
Do you perform reconstruction and/or retrofit projects?	☐	☐	☐	☒
Do you perform building elevations?	☐	☐	☐	☒
Do you perform acquisitions and/or provide relocation assistance?	☐	☐	☐	☒
Other: please include a brief description in the comment box provided	☐	☐	☐	☐

Data: Share your thoughts and insights on the data presented. Are there areas that need improvement or additional information?

"Other" Responses: If you answered "other" to any questions, please specify and elaborate on your responses here.

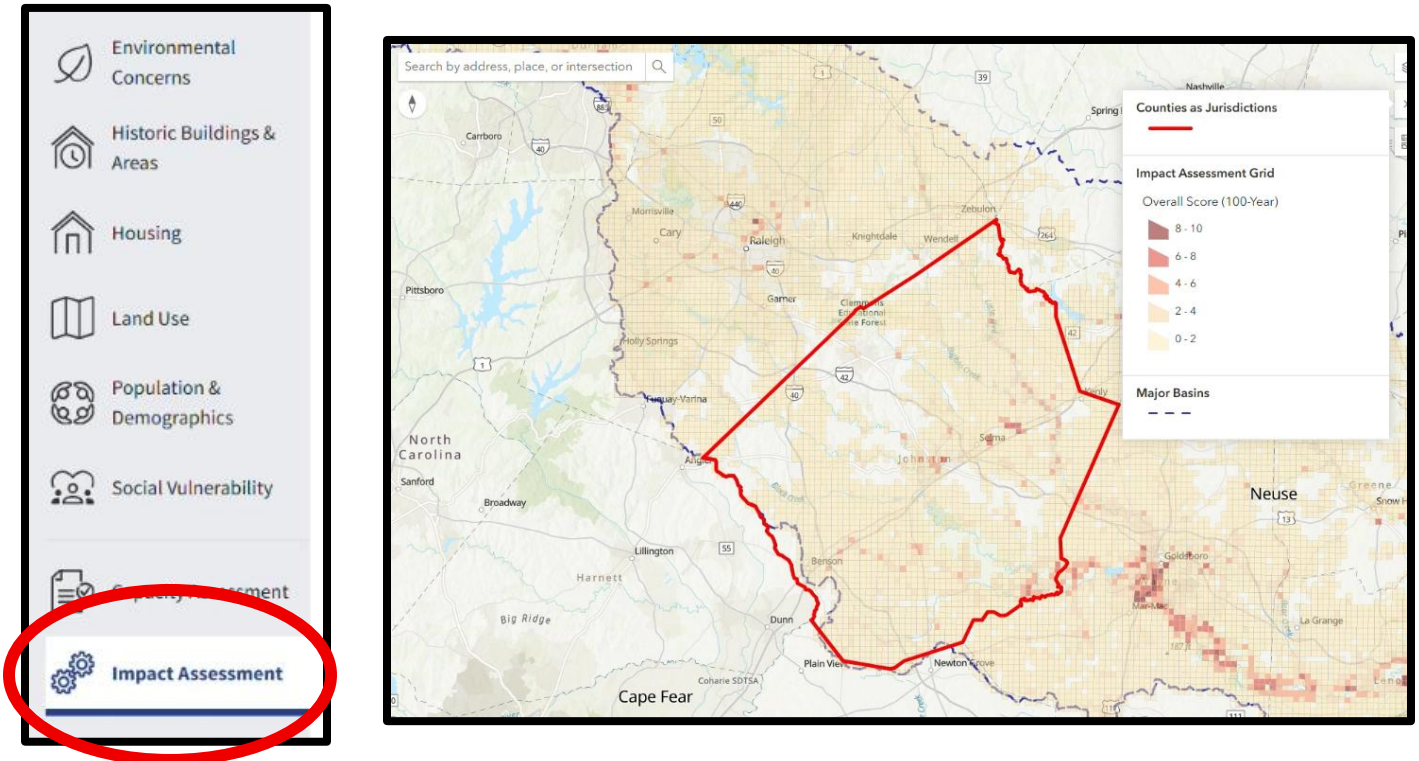
Web Application Functionality: Let us know about your experience using the Capacity Assessment. Were there any issues or

☐ Our Capacity Assessment is accurate and complete.

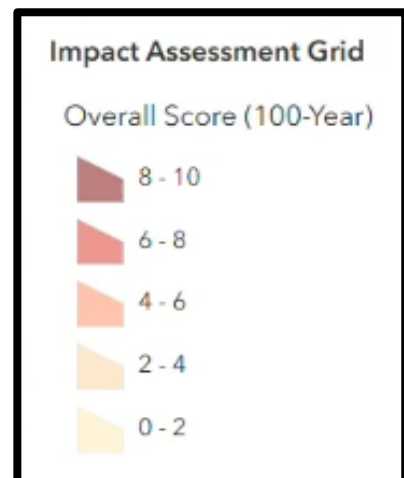
Save and Close

3.6 Impact Assessment

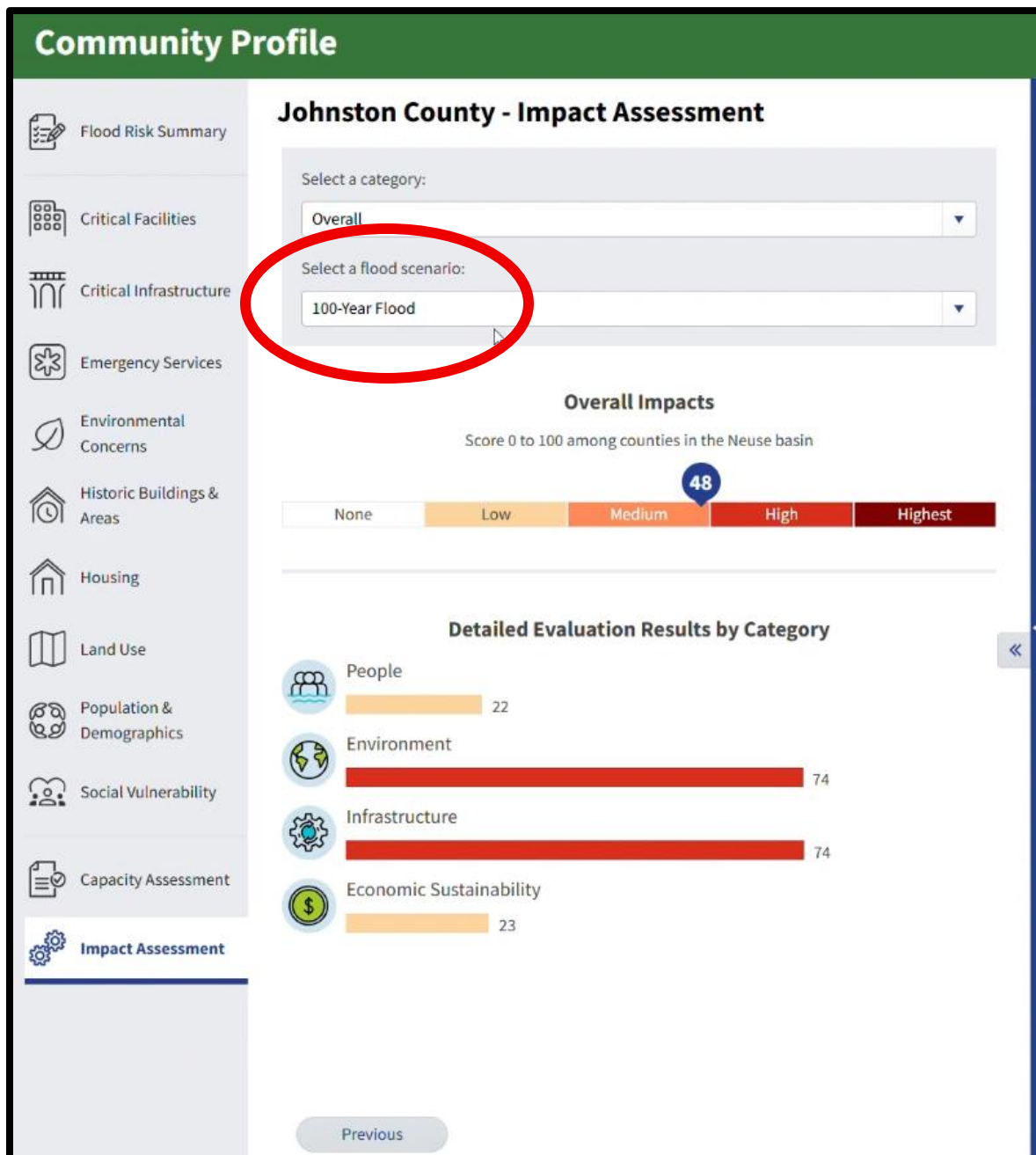
When we look at the map after selecting the impact assessment in the community profile, we see a heat map indicating the overall impact assessment score grid.



Each grid cell represents the score for that area.



We can view the impact assessment based on different categories and different flood scenarios.



In this map, we're reviewing all the categories for a 100-year flood scenario.

Johnston County - Impact Assessment

Select a category:
Overall

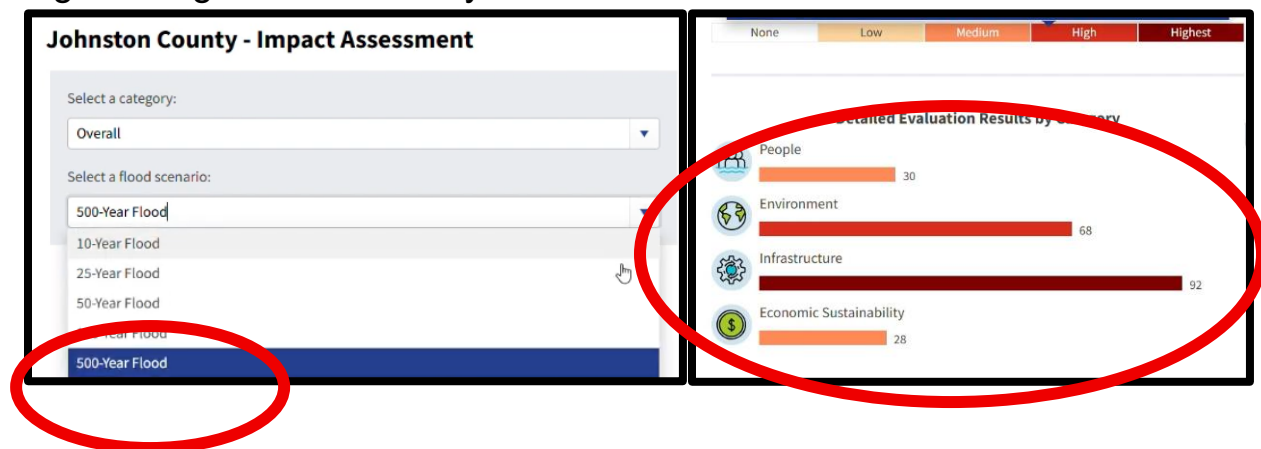
Select a flood scenario:

- 100-Year Flood
- 10-Year Flood
- 25-Year Flood
- 50-Year Flood
- 100-Year Flood
- 500-Year Flood

None Low Medium High Highest

The overall impact score ranges from 0 to 100, encompassing the results by category.

We can also view the impact assessment in different flood scenarios. If we change the flood scenario to a 500-year flood, our overall impact will be a higher range than the 100-year scenario.



Next, click the dropdown arrow under “select a category”.

Johnston County - Impact Assessment

Select a category:

Overall

People

Environment

Infrastructure

Economic Sustainability

Overall

Click "People"

People Impacts

Score 0 to 100 among counties in the Neuse basin

22

None

Low

Medium

High

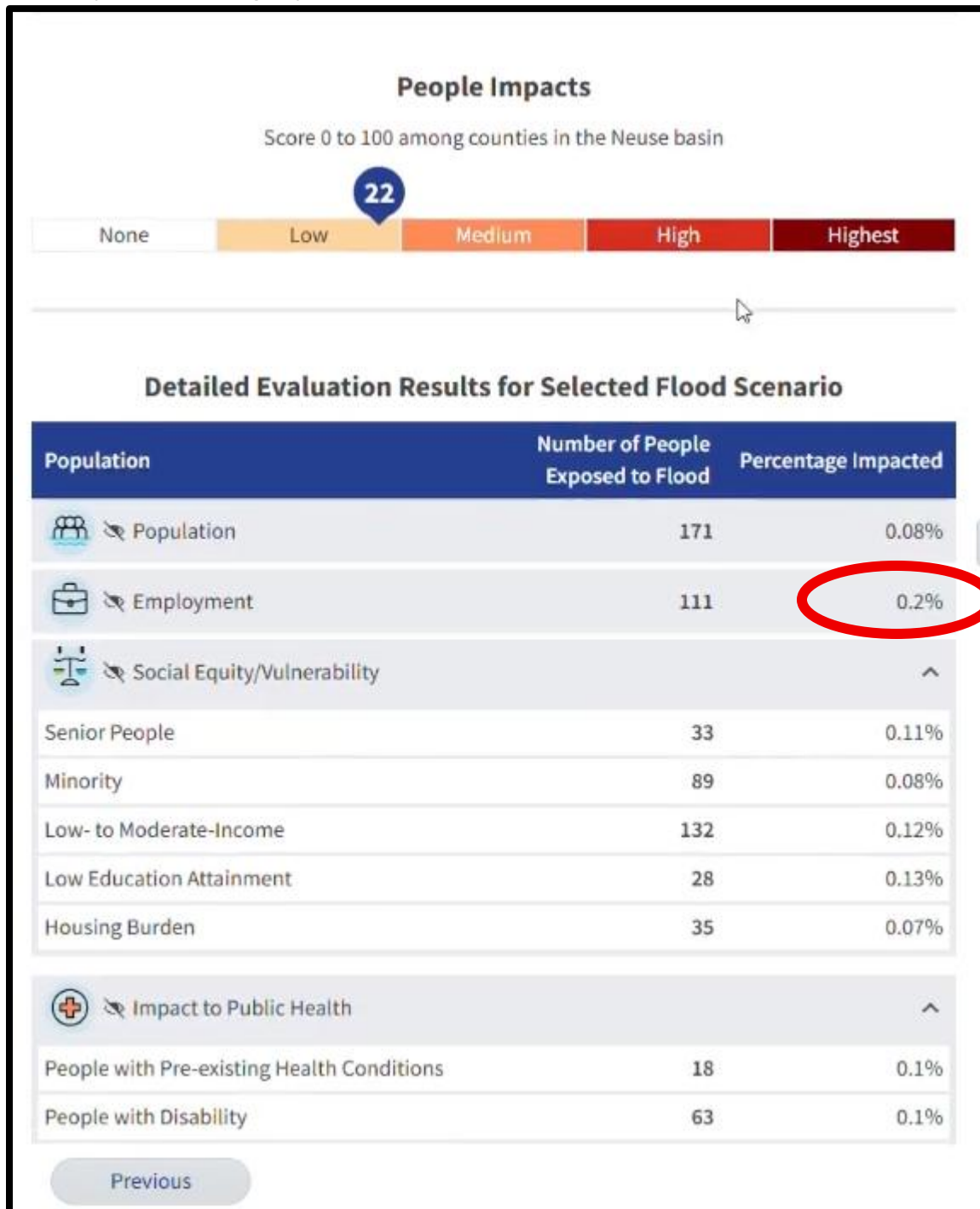
Highest

Detailed Evaluation Results for Selected Flood Scenario

Population	Number of People Exposed to Flood	Percentage Impacted
 Population	171	0.08%
 Employment	111	0.2%
 Social Equity/Vulnerability		^
Senior People	33	0.11%
Minority	89	0.08%
Low- to Moderate-Income	132	0.12%
Low Education Attainment	28	0.13%
Housing Burden	35	0.07%
 Impact to Public Health		^
People with Pre-existing Health Conditions	18	0.1%
People with Disability	63	0.1%

Previous

Here we can see the number of people exposed to flooding at the 100-year flood scenario along with the percentage of people impacted in the employment category.



The social equity and vulnerability and public health impacts can be expanded to see more details about people in the impacted area.

Detailed Evaluation Results for Selected Flood Scenario		
Population	Number of People Exposed to Flood	Percentage Impacted
 Population	171	0.08%
 Employment	111	0.2%
 Social Equity/Vulnerability		^
Senior People	33	0.11%
Minority	89	0.08%
Low- to Moderate-Income	132	0.12%
Low Education Attainment	28	0.13%
Housing Burden	35	0.07%

These evaluation results can also be made visible on the map by selecting the hide or unhide option.



When we select the environment category, a detailed evaluation of environmental impacts is shown along with an overall environmental impact score.

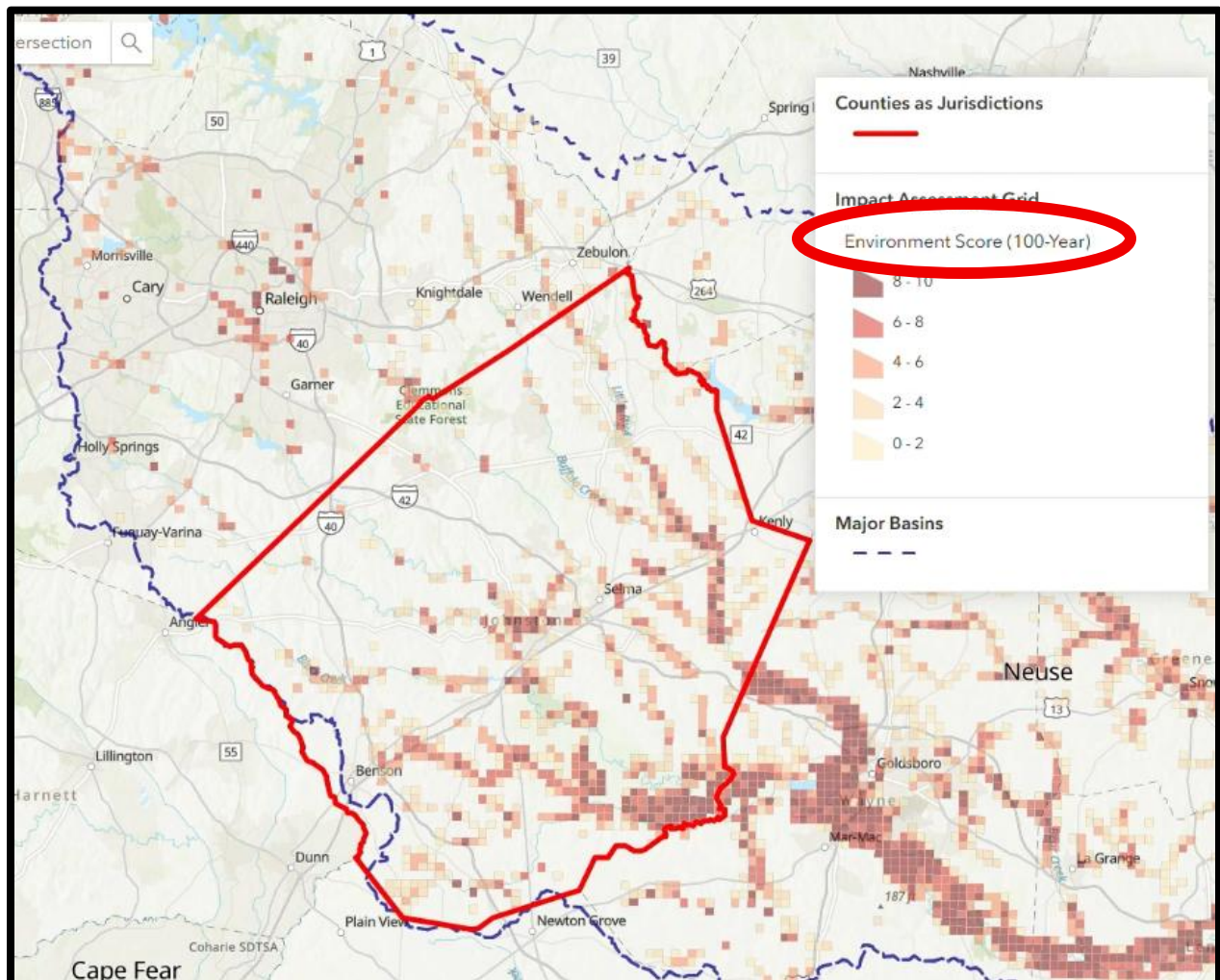
Johnston County - Impact Assessment

Select a category:

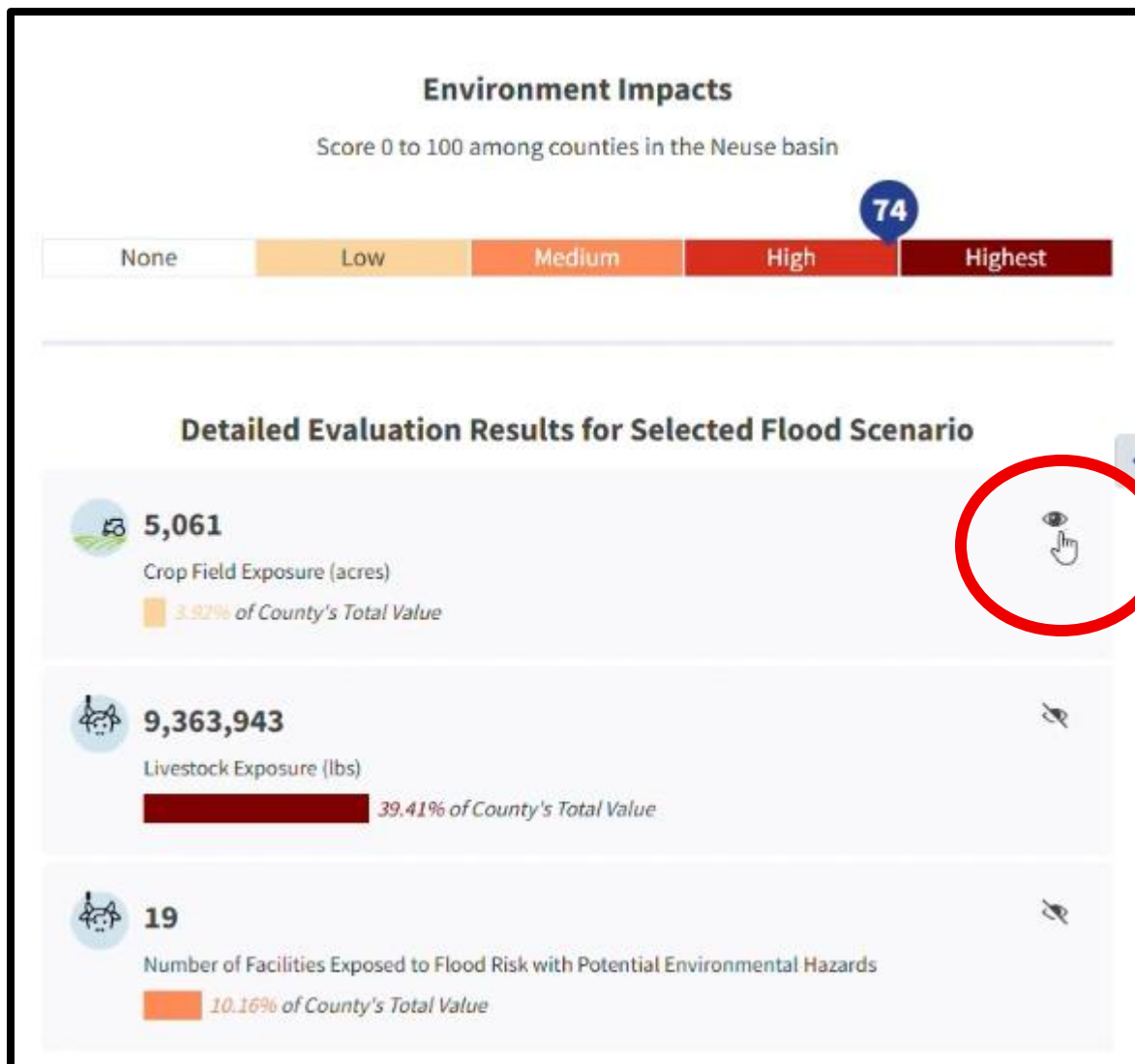
Environment

Select a flood scenario:

100-Year Flood

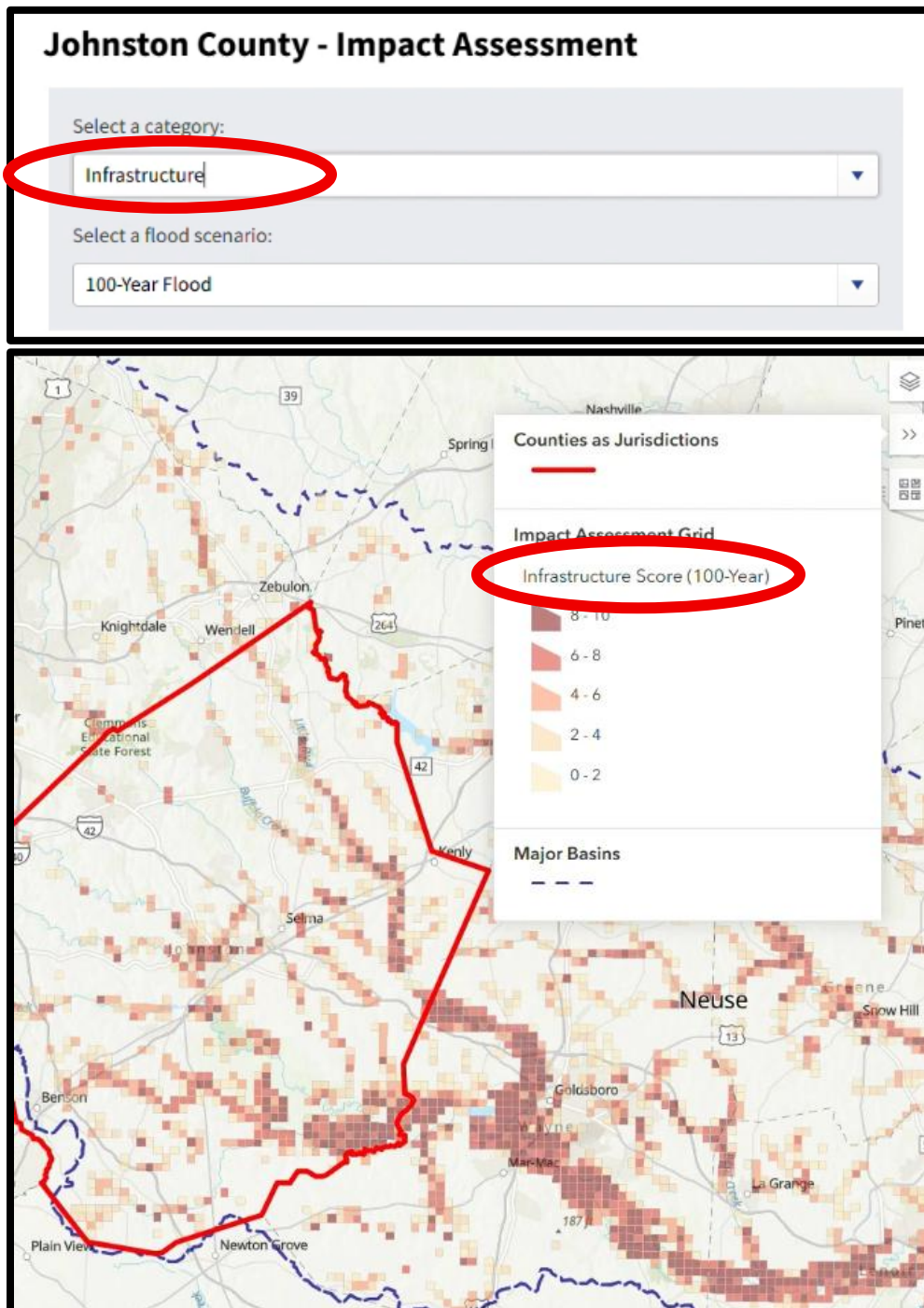


The acres of crop fields exposed, pounds of livestock exposed, and the number of facilities exposed to flood risk with potential environmental hazards are shown.



These environmental evaluation results can also be made visible on the map by selecting the hide or unhide option. Again, this is done by clicking the eye icon (circled above).

The infrastructure category of the impact assessment presents an overall infrastructure impact score along with the impacts on sensitive roadways and bridges, miles of high criticality roadways, power and communication facilities and driving distance to health and safety facilities.



Infrastructure Impact Assessment categories:

Detailed Evaluation Results for Selected Flood Scenario		
	Total Impacts	Percentage Impacted
 Sensitive Roadway and Bridges 		
Total Miles of Roadways Exposed to Flooding	25	1.86%
Total Miles of Moderate & Poor Criticality Roadways Exposed to Flooding	19	1.78%
Number of Structural Deficient Bridges Exposed	0	0%
Number of Functional Obsolete Bridges Exposed	6	12.5%
 Miles of High-Criticality Roadways Exposed	1	0.32%
 Power & Communication Facilities	5	10.2%
		

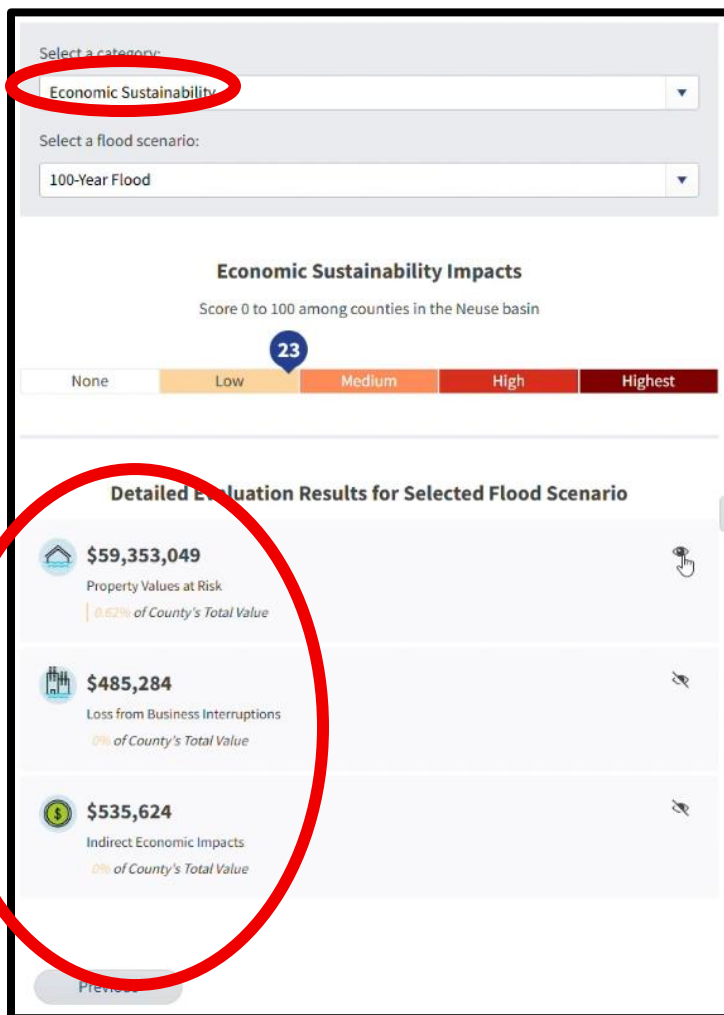
We can expand the sensitive roadway and bridge data to view the total miles of roadways exposed to flooding as well as moderate and poor criticality roadways exposed to flooding. Additionally, we can examine the number of structural deficient bridges exposed and the number of functional obsolete bridges exposed.

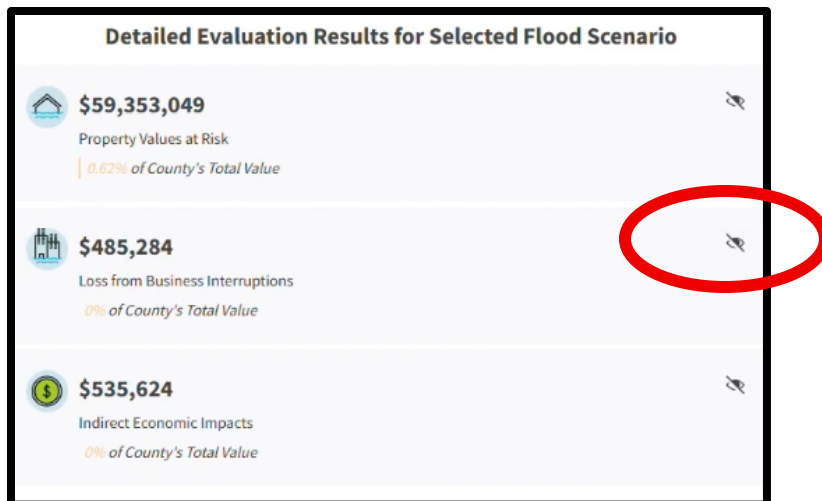
	Total Impacts	Percentage Impacted
 Sensitive Roadway and Bridges 		
Total Miles of Roadways Exposed to Flooding	25	1.86%
Total Miles of Moderate & Poor Criticality Roadways Exposed to Flooding	19	1.78%
Number of Structural Deficient Bridges Exposed	0	0%
Number of Functional Obsolete Bridges Exposed	6	12.5%

We can also see the percentage of individuals who would need to take a detour, the miles of detour, and the percent who lose all access to hospitals, shelters, and emergency operations centers.

Indicator	Percent Who Need Detour	Miles of Detour	Percent Who Lost Access
To Hospitals	36.27%	0.45	0.17%
To Shelters	19.11%	0.22	0.17%
To Emergency Operation Centers	40.52%	0.56	0.17%

The economic sustainability category shows the property values at risk, the loss from business interruptions, and the indirect economic impacts.

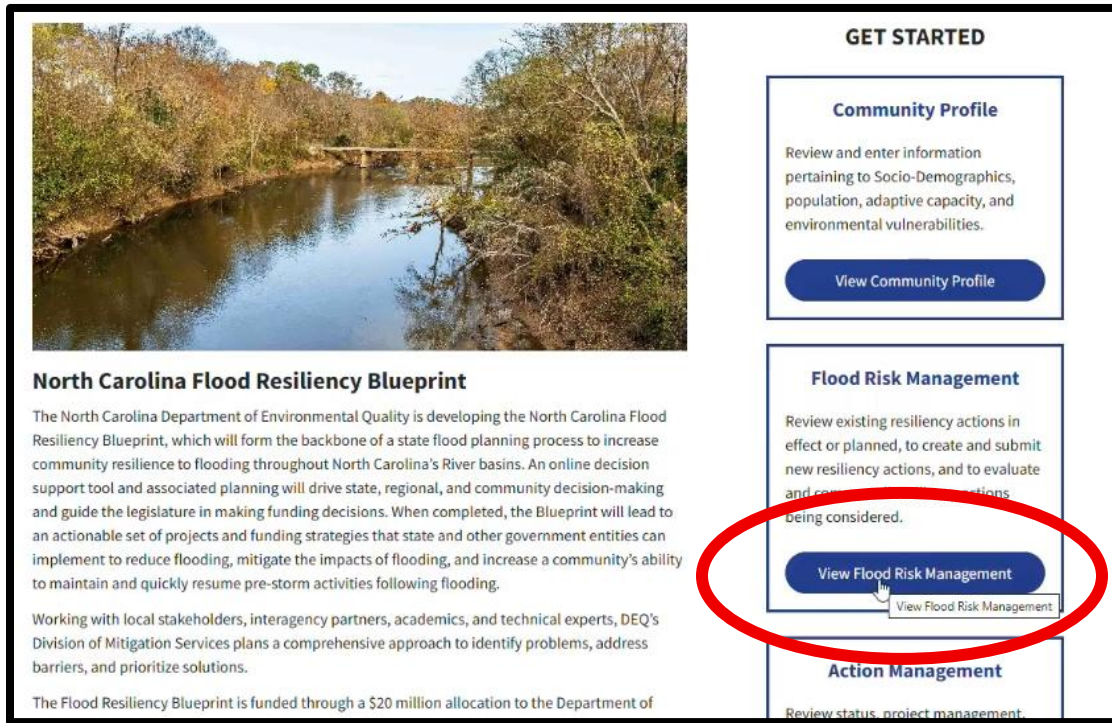




These layers can also be turned on and off to view the distribution of specific impacts within the economic sustainability category.

4.1 My Action Plan

First, we will select “View Flood Risk Management” in the blueprint homepage



North Carolina Flood Resiliency Blueprint

The North Carolina Department of Environmental Quality is developing the North Carolina Flood Resiliency Blueprint, which will form the backbone of a state flood planning process to increase community resilience to flooding throughout North Carolina's River basins. An online decision support tool and associated planning will drive state, regional, and community decision-making and guide the legislature in making funding decisions. When completed, the Blueprint will lead to an actionable set of projects and funding strategies that state and other government entities can implement to reduce flooding, mitigate the impacts of flooding, and increase a community's ability to maintain and quickly resume pre-storm activities following flooding.

Working with local stakeholders, interagency partners, academics, and technical experts, DEQ's Division of Mitigation Services plans a comprehensive approach to identify problems, address barriers, and prioritize solutions.

The Flood Resiliency Blueprint is funded through a \$20 million allocation to the Department of

GET STARTED

Community Profile

Review and enter information pertaining to Socio-Demographics, population, adaptive capacity, and environmental vulnerabilities.

[View Community Profile](#)

Flood Risk Management

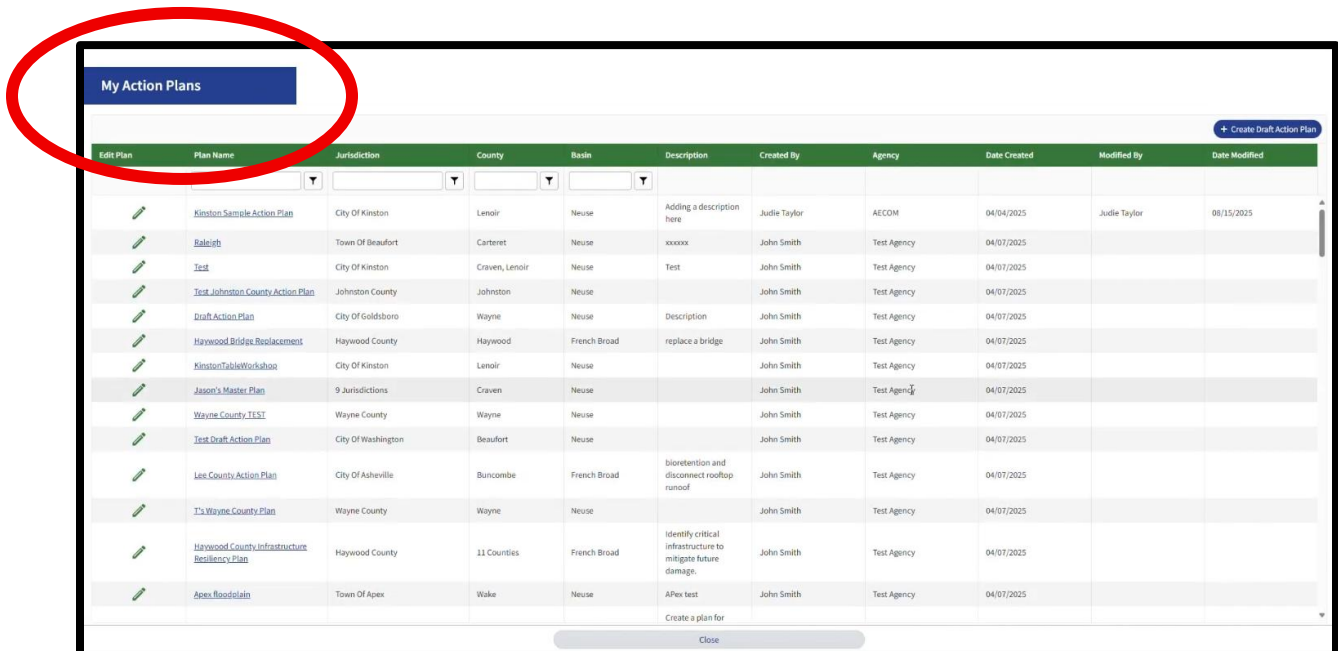
Review existing resiliency actions in effect or planned, to create and submit new resiliency actions, and to evaluate and compare actions being considered.

[View Flood Risk Management](#)

Action Management

Review status, project management.

the first thing you will see is your action plans.



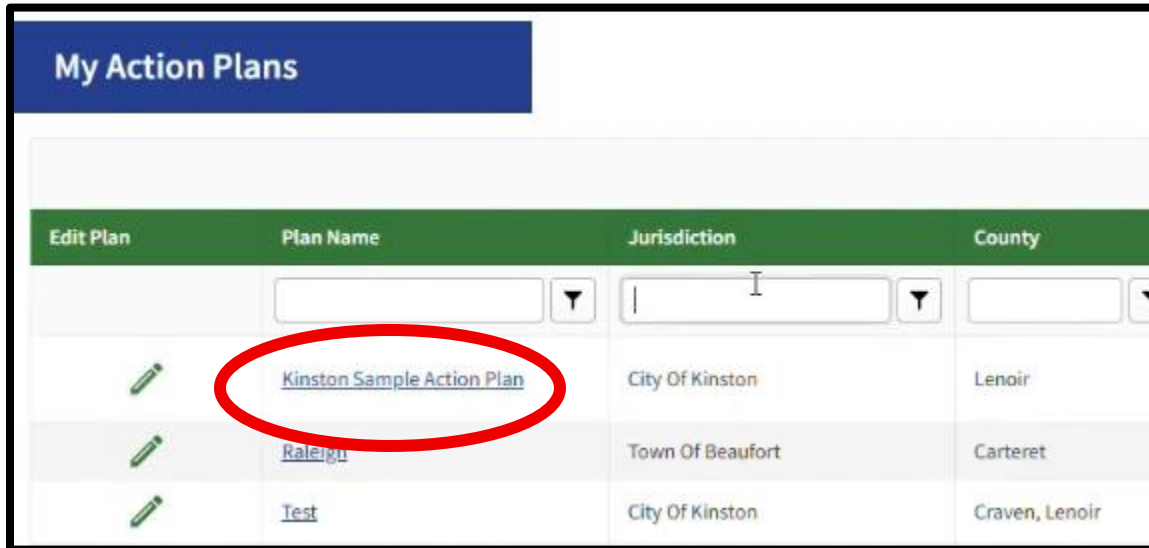
My Action Plans	Plan Name	Jurisdiction	County	Basin	Description	Created By	Agency	Date Created	Modified By	Date Modified
	Kinston Sample Action Plan	City Of Kinston	Lenoir	Neuse	Adding a description here	Judie Taylor	AECOM	04/04/2025	Judie Taylor	04/15/2025
	Baldwin	Town Of Beaufort	Carteret	Neuse	xxxxxx	John Smith	Test Agency	04/07/2025		
	Test	City Of Kinston	Craven, Lenoir	Neuse	Test	John Smith	Test Agency	04/07/2025		
	Test Johnston County Action Plan	Johnston County	Johnston	Neuse		John Smith	Test Agency	04/07/2025		
	Draft Action Plan	City Of Goldsboro	Wayne	Neuse	Description	John Smith	Test Agency	04/07/2025		
	Haywood Bridge Replacement	Haywood County	Haywood	French Broad	replace a bridge	John Smith	Test Agency	04/07/2025		
	Kinston Table Workshop	City Of Kinston	Lenoir	Neuse		John Smith	Test Agency	04/07/2025		
	Jason's Master Plan	9 Jurisdictions	Craven	Neuse		John Smith	Test Agency	04/07/2025		
	Wayne County TIST	Wayne County	Wayne	Neuse		John Smith	Test Agency	04/07/2025		
	Test Draft Action Plan	City Of Washington	Beaufort	Neuse		John Smith	Test Agency	04/07/2025		
	Lee County Action Plan	City Of Asheville	Buncombe	French Broad	bioretention and disconnect rooftop runoff	John Smith	Test Agency	04/07/2025		
	T's Wayne County Plan	Wayne County	Wayne	Neuse		John Smith	Test Agency	04/07/2025		
	Haywood County Infrastructure Resiliency Plan	Haywood County	11 Counties	French Broad	Identify critical infrastructure to mitigate future damage.	John Smith	Test Agency	04/07/2025		
	Apex Floodplain	Town Of Apex	Wake	Neuse	Apex test	John Smith	Test Agency	04/07/2025		

Create a plan for

Close

If you don't have an action plan or if there are no action plans that you have access to, you will not see this window. But this window will show you every action plan that you have access to.

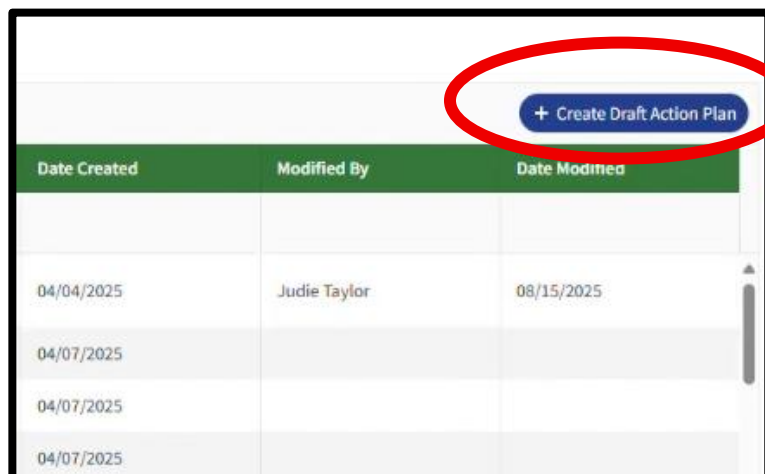
To view the action plan, you can click on the plan name.



My Action Plans			
Edit Plan	Plan Name	Jurisdiction	County
	Kinston Sample Action Plan	City Of Kinston	Lenoir
	Raleigh	Town Of Beaufort	Carteret
	Test	City Of Kinston	Craven, Lenoir

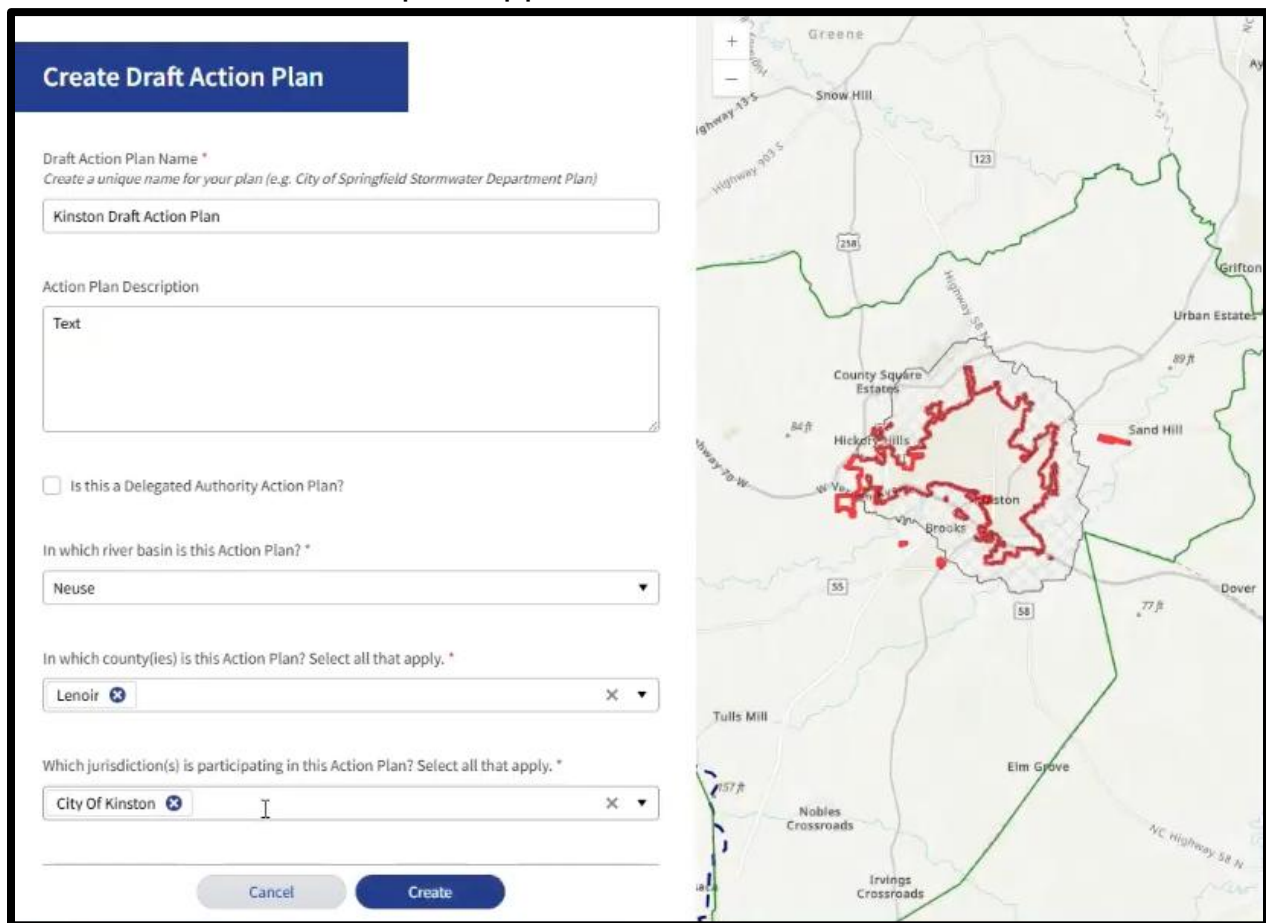
You can also sort through the plans you have access to by filtering by plan name, jurisdiction, county, or basin.

To create a draft action plan, we will click the **“Create Draft Action Plan”** button in the upper right.



Date Created	Modified By	Date Modified
04/04/2025	Judie Taylor	08/15/2025
04/07/2025		
04/07/2025		
04/07/2025		

Here we will add the plan name, description, river, basin, and county or counties that the action plan applies to.



The image shows a web form titled "Create Draft Action Plan" on the left and a map of Kinston, NC, on the right. The form has the following fields:

- Draft Action Plan Name ***: A text input field containing "Kinston Draft Action Plan". A hint below reads: "Create a unique name for your plan (e.g. City of Springfield Stormwater Department Plan)".
- Action Plan Description**: A large text area with the placeholder text "Text".
- Is this a Delegated Authority Action Plan?**: An unchecked checkbox.
- In which river basin is this Action Plan? ***: A dropdown menu with "Neuse" selected.
- In which county(ies) is this Action Plan? Select all that apply. ***: A multi-select dropdown menu with "Lenoir" selected.
- Which jurisdiction(s) is participating in this Action Plan? Select all that apply. ***: A multi-select dropdown menu with "City Of Kinston" selected.
- Buttons: "Cancel" and "Create".

The map on the right shows Kinston, NC, with various geographical features highlighted: the city area is outlined in red, the surrounding county (Lenoir) is outlined in green, and the Neuse River basin is indicated by blue dashed lines. Other labels on the map include "Greene", "Snow Hill", "Highway 19 E", "Highway 903 S", "Highway 123", "Highway 218", "Highway 58 N", "Highway 55", "Highway 107 E", "Dover", "Urban Estates", "Sand Hill", "Elm Grove", "Nobles Crossroads", "Irving's Crossroads", "Tullis Mill", "County Square Estates", "Hickory Hills", "Brooks", "Vn", "Grifton", and "Aylmer".

You are able to create an action plan with multiple river basins or counties.

Please note that there may be many plans with similar names, so it is important that you create a unique plan name that provides enough detail to distinguish your plan from other plans.

After entering the basin and counties that the plan applies to, the jurisdictions will appear in red lines, counties will appear in green lines and the river basin will be in the blue dashed lines. Any area that is an extraterritorial jurisdiction will be indicated with a hatched pattern.

Once you are done entering the details of your draft action plan, select “Create”.

The screenshot shows a web form for creating an action plan. At the top, there is a dropdown menu with 'Neuse' selected. Below it, a label asks 'In which county(ies) is this Action Plan? Select all that apply. *'. A dropdown menu shows 'Lenoir' selected. Below that, another label asks 'Which jurisdiction(s) is participating in this Action Plan? Select all that apply. *'. A dropdown menu shows 'City Of Kinston' selected. At the bottom of the form, there are two buttons: 'Cancel' and 'Create'. The 'Create' button is highlighted with a red circle. To the right of the form, a map snippet is visible showing a road labeled 'Tulls Mill' and a route marked with a blue line and the number '157'.

4.2 Ways to Create a New Resiliency Action

Begin by selecting “View Flood Risk Management”



North Carolina Flood Resiliency Blueprint

The North Carolina Department of Environmental Quality is developing the North Carolina Flood Resiliency Blueprint, which will form the backbone of a state flood planning process to increase community resilience to flooding throughout North Carolina's River basins. An online decision support tool and associated planning will drive state, regional, and community decision-making and guide the legislature in making funding decisions. When completed, the Blueprint will lead to an actionable set of projects and funding strategies that state and other government entities can implement to reduce flooding, mitigate the impacts of flooding, and increase a community's ability to maintain and quickly resume pre-storm activities following flooding.

Working with local stakeholders, interagency partners, academics, and technical experts, DEQ's Division of Mitigation Services plans a comprehensive approach to identify problems, address barriers, and prioritize solutions.

The Flood Resiliency Blueprint is funded through a \$20 million allocation to the Department of

GET STARTED

Community Profile

Review and enter information pertaining to Socio-Demographics, population, adaptive capacity, and environmental vulnerabilities.

[View Community Profile](#)

Flood Risk Management

Review existing resiliency actions in effect or planned, to create and submit new resiliency actions, and to evaluate and compare all resiliency actions being considered.

[View Flood Risk Management](#)

Action Management

Review status, project management.

Next, select the plan name or jurisdiction you wish to apply the action to.

My Action Plans

[+ Create Draft Action Plan](#)

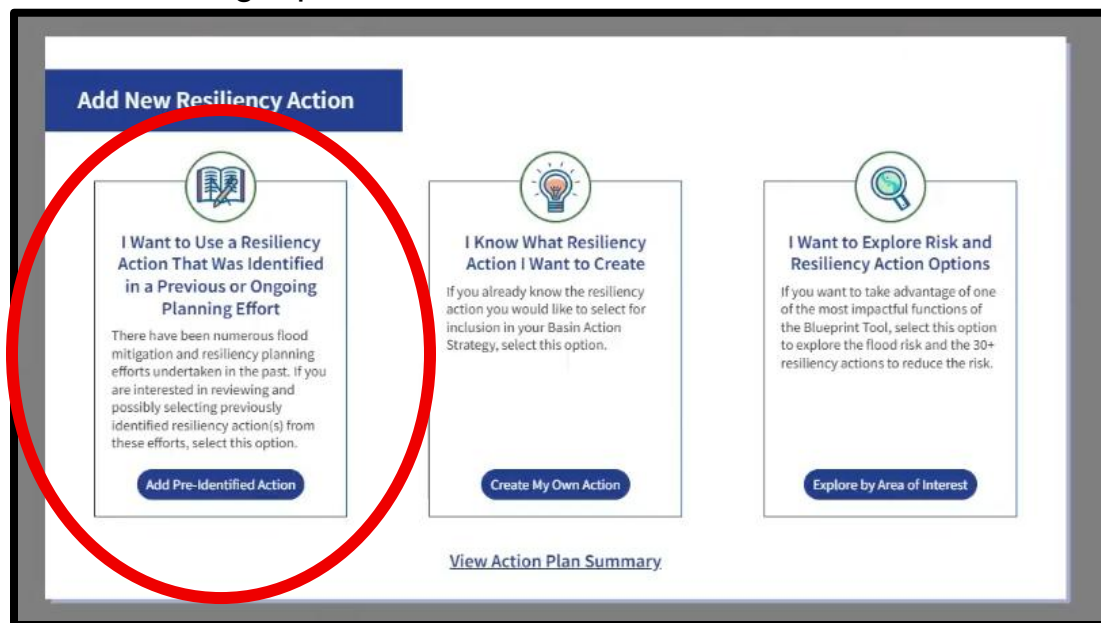
Edit Plan	Plan Name	Jurisdiction	County	Basin	Description	Created By	Agency	Date Created	Modified By	Date Modified
	Kinston Sample Action Plan	City Of Kinston	Lenoir	Neuse	Adding a description here	Judie Taylor	AECOM	04/04/2025	Judie Taylor	08/15/2025
	Test	Town Of Beaufort	Carteret	Neuse	xxxxxx	John Smith	Test Agency	04/07/2025		
	Test Johnston County Action Plan	City Of Kinston	Craven, Lenoir	Neuse	Test	John Smith	Test Agency	04/07/2025		
	Draft Action Plan	Johnston County	Johnston	Neuse		John Smith	Test Agency	04/07/2025		
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	Kinston Table Workshop	Haywood County	Haywood	French Broad	replace a bridge	John Smith	Test Agency	04/07/2025		
	Jason's Master Plan	City Of Kinston	Lenoir	Neuse		John Smith	Test Agency	04/07/2025		
	Wayne County TIST	9 Jurisdictions	Craven	Neuse		John Smith	Test Agency	04/07/2025		
	Test Draft Action Plan	Wayne County	Wayne	Neuse		John Smith	Test Agency	04/07/2025		
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Create a plan for

Close

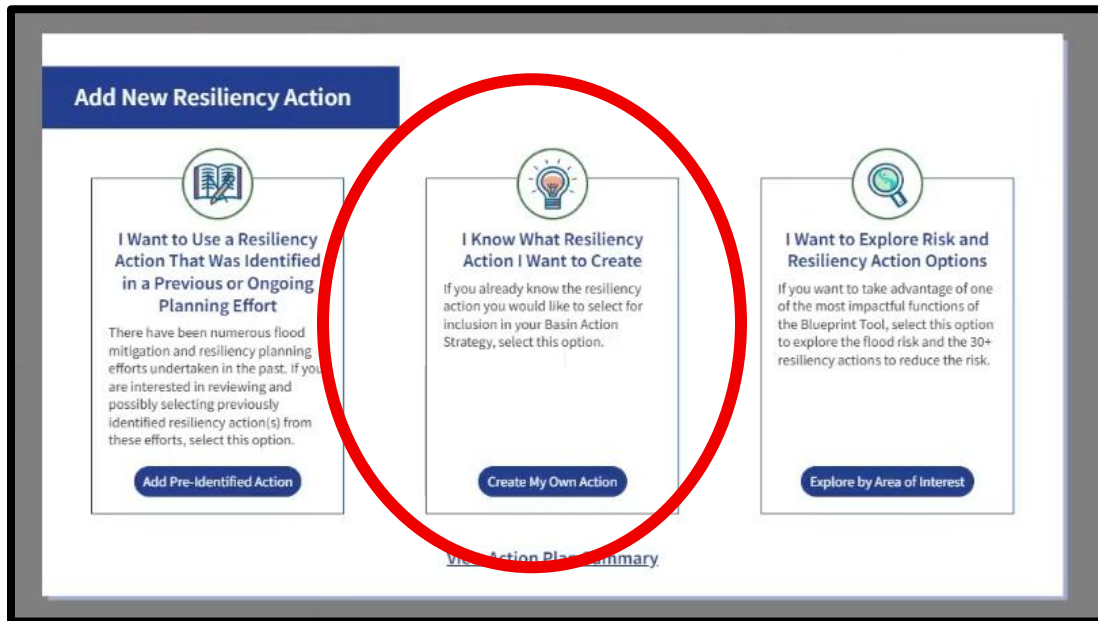
There are 3 different ways to approach creating a new action.

- First is “adding a pre-identified action”.



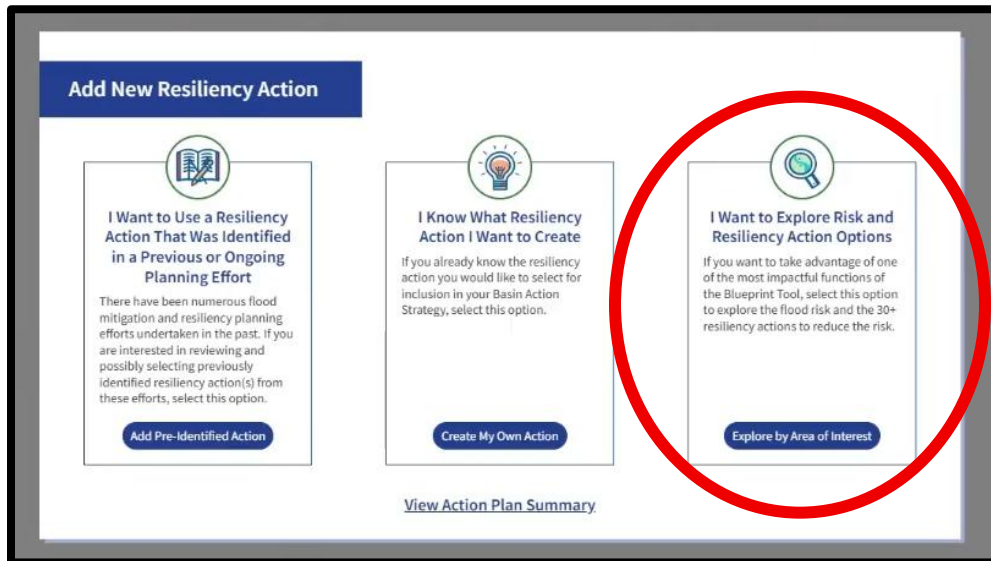
- This is when we want to use a resiliency action in our action plan that was identified in previous or ongoing planning efforts. This is to add a project that has been identified but has not been completed.

- The next type of resiliency action is the “I know what resiliency action that I want to create”.



- This is an action that isn't pre-identified, but you know what action you want to implement or have a general idea of what action you wish to implement.
- If you have an action you want to implement, but you don't know where to implement it, you can explore by area of interest.

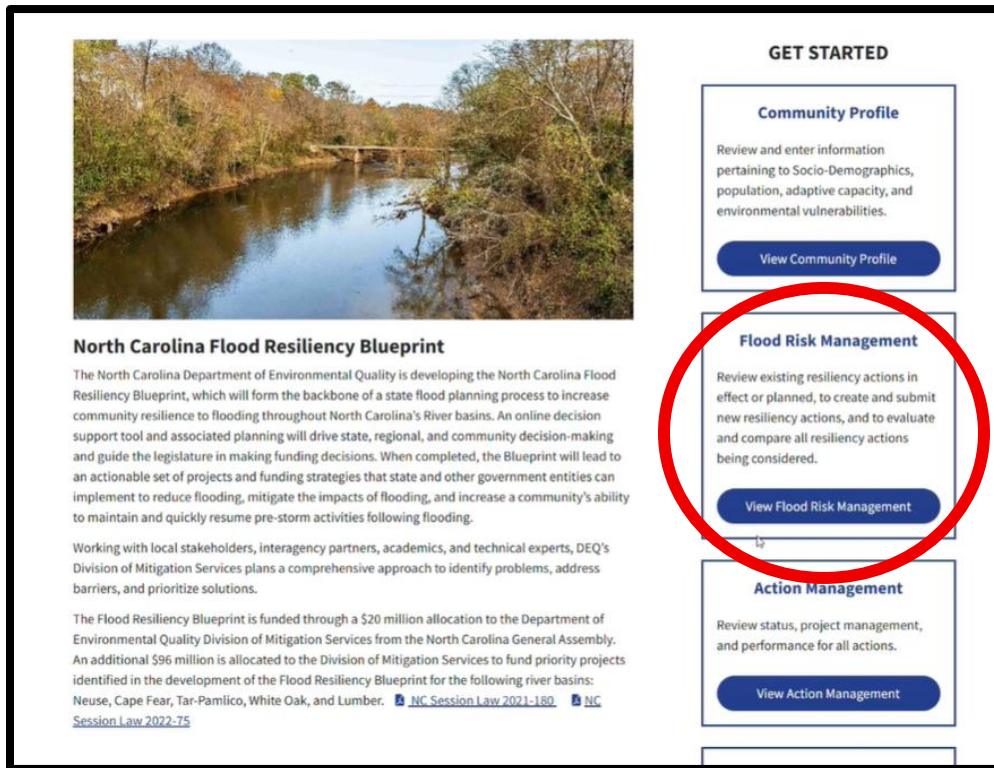
- The third way to create a resiliency action is the “I want to explore risk and resiliency action options”.



- This option provides tools to assess your risk and explore ways to reduce the risk in your jurisdiction.

4.3 Resiliency Action Planning Overview

- Start by selecting “Flood Risk Management” from the welcome page.



North Carolina Flood Resiliency Blueprint

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GET STARTED

Community Profile
Review and enter information pertaining to Socio-Demographics, population, adaptive capacity, and environmental vulnerabilities.
[View Community Profile](#)

Flood Risk Management
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[View Flood Risk Management](#)

Action Management
Review status, project management, and performance for all actions.
[View Action Management](#)

My Action Plans

[+ Create Draft Action Plan](#)

Open Plan	Plan Name	Jurisdiction	County	Basin	Description	Created By	Agency	Date Created	Modified By	Date Modified
	Kinston Sample Action Plan	City Of Kinston	Lenoir	Neuse		Judie Taylor	None	04/04/2025		
	Test	City Of Kinston	Craven, Lenoir	Neuse	Test	John Smith	None	04/07/2025		
	Test Johnston County Action Plan	Johnston County	Johnston	Neuse		John Smith	None	04/07/2025		
	KinstonTabletWorkshop	City Of Kinston	Lenoir	Neuse		John Smith	None	04/07/2025		
	Jason's Master Plan	9 Jurisdictions	Craven	Neuse		John Smith	None	04/07/2025		
	Wayne County TEST	Wayne County	Wayne	Neuse		John Smith	None	04/07/2025		
	T's Wayne County Plan	Wayne County	Wayne	Neuse		John Smith	None	04/07/2025		
	City of New Bern	City Of New Bern	Craven	Neuse	Create a plan for flood resilience in the Neuse River Basin specifically New Bern.	Peyton campbell	None	04/07/2025		
	Huffman Wayne County	9 Jurisdictions	Wayne	Neuse	Wayne County Action Plan for	John Smith	None	04/07/2025		

Close

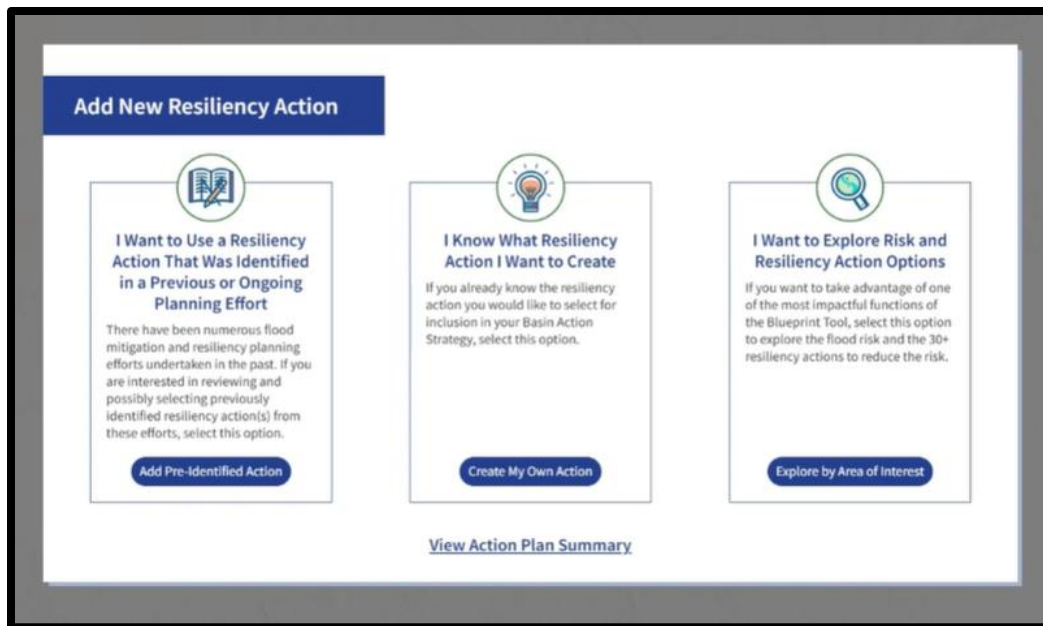
- Please note that you will only see the action plans for the roles that you are assigned.

My Action Plans										
Open Plan	Plan Name	Jurisdiction	County	Basin	Description	Created By	Agency	Date Created	Modified By	Date Modified
	Plan	City Of Kinston	Craven, Lenoir	Neuse	Test	John Smith	None	04/07/2025		
	Test Johnstons County Action Plan	Johnston County	Johnston	Neuse		John Smith	None	04/07/2025		
	KinstonTableWorkshop	City Of Kinston	Lenoir	Neuse		John Smith	None	04/07/2025		
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	Huffman Wayne County	9 Jurisdictions	Wayne	Neuse	Wayne County Action Plan for	John Smith	None	04/07/2025		

- Here you can see the plans that you have access to and the plan name, jurisdictions, counties, river, basin, description, date created, and user who created the action plan. The plan names, jurisdictions, counties, and basins are all filterable by keywords.

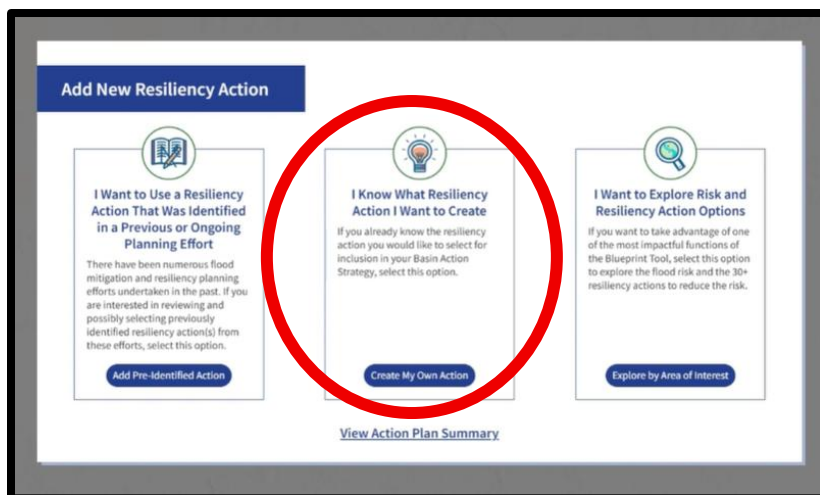
My Action Plans				
Open Plan	Plan Name	Jurisdiction	County	
	Kinston Sample Action Plan	City Of Kinston	Lenoir	
	Test	City Of Kinston	Craven, Lenoir	
	Test Johnstons County Action Plan	Johnston County	Johnston	
	KinstonTableWorkshop	City Of Kinston	Lenoir	

- To open the plan, click on the plan name or you can click the edit button under the “Open Plan” column.

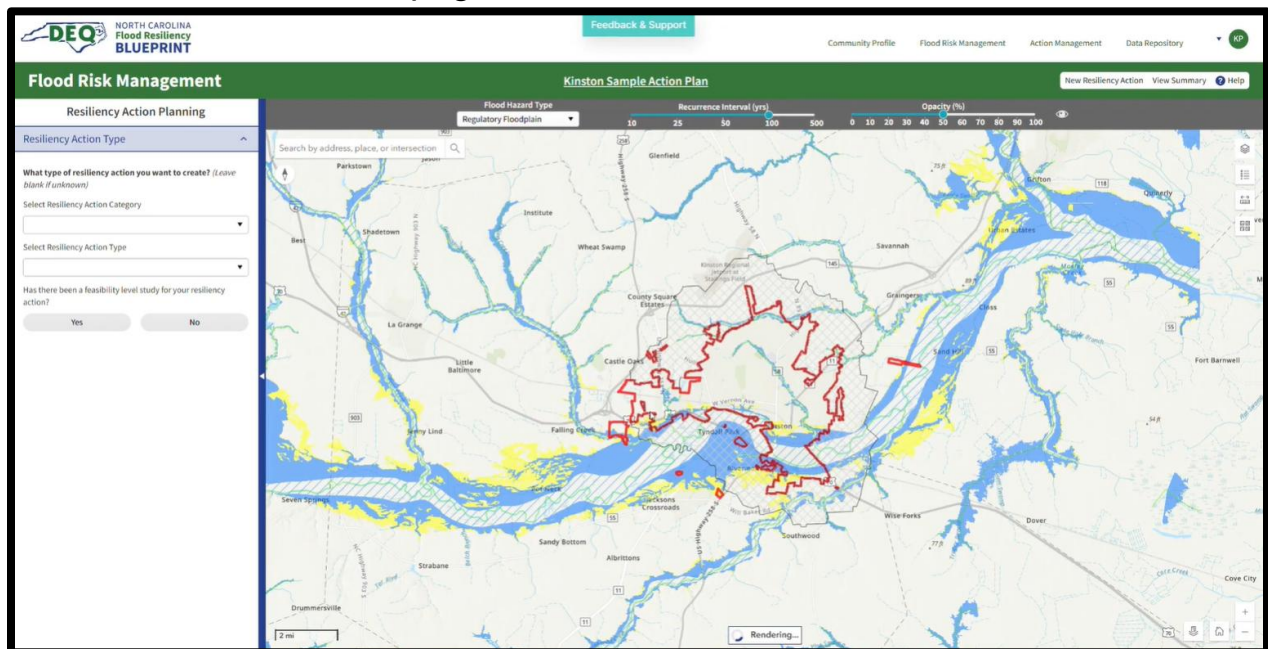


- Once you've selected our plan, the tool presents you with three options to add a resiliency action, including:
 - "I want to use a resiliency action that was identified in a previous or ongoing planning effort."
 - "I know what resiliency action I want to create."
 - "I want to explore risk and resiliency action options."

We'll go into more detail on each of these options in later videos. For this example, select "I know what resiliency action I want to create".



You will be taken to this page:



- On the left, you will see expanding panels that will guide you through the resiliency action. As the user works through the actions, more panels will appear.

This close-up view of the 'Resiliency Action Planning' panel shows the following elements:

- Resiliency Action Type** (expandable panel header)
- What type of resiliency action you want to create?** (Leave blank if unknown)
- Select Resiliency Action Category** (dropdown menu, circled in red)
- Select Resiliency Action Type** (dropdown menu, circled in red)
- Has there been a feasibility level study for your resiliency action?** (Yes/No buttons)

The background map shows a zoomed-in view of the Kinston area, including locations like Parkstown, Shadetown, Best, and La Grange.

Flood Risk Management

Resiliency Action Planning

Resiliency Action Type ^

What type of resiliency action you want to create? *(Leave blank if unknown)*

Select Resiliency Action Category

Channel Modification ▼

Channel Modification

Building Level Mitigation

Other

Policy & Planning

Nature Based Solutions

Infrastructure & Control Structures

Search b

- Start the action workflow by selecting the resiliency action category and type from the drop- down menus. The blueprint tool offers multiple resiliency action categories and types for users to choose from, which will be explored in later sections of the tutorial.
- For this example, select **building level mitigation** as the action category.

Resiliency Action Type ^

What type of resiliency action you want to create? *(Leave blank if unknown)*

Select Resiliency Action Category

Building Level Mitigation ▼

**Select a Building Mitigation Action from the Building Mitigation Actions table on the right after you have drawn your Area of Impact*

Has there been a feasibility level study for your resiliency action?

Yes

No

- Indicate whether a feasibility level study has been completed.

Select Resiliency Action Category

Building Level Mitigation

**Select a Building Mitigation Action from the Building Mitigation Actions table on the right after you have drawn your Area of Impact*

Has there been a feasibility level study for your resiliency action?

Yes No

Next

Area of Impact

After selecting “Yes” and “Next”, you will be taken from the “**Resiliency Action Type**” dropdown to the “**Area of Impact**” dropdown

Flood Risk Management

Resiliency Action Planning

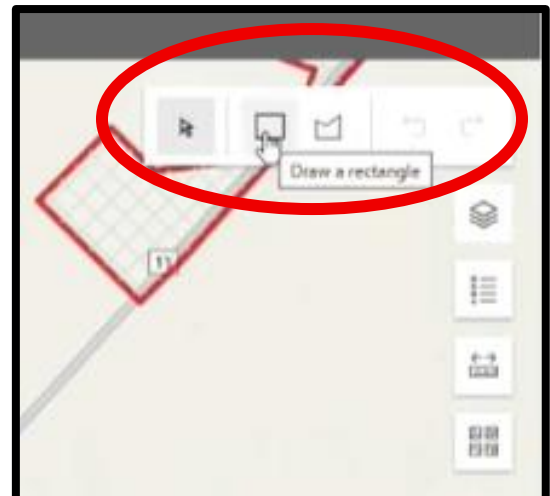
Resiliency Action Type

Area of Impact

Identify the area that will be impacted by your resiliency action:

- 1 Zoom to the area of impact on the map to the right, using the search bar or manually.
- 2 Draw an Area of Impact polygon(s) on the map using the drawing tools in the upper right.

Please zoom in to start sketching
Current zoom level: 12, Zoom level required: 14



- The next step is to select an area of impact. Using the drawing tools located at the top right of the map, draw a polygon around the buildings on which you potentially want to implement a building level mitigation action.



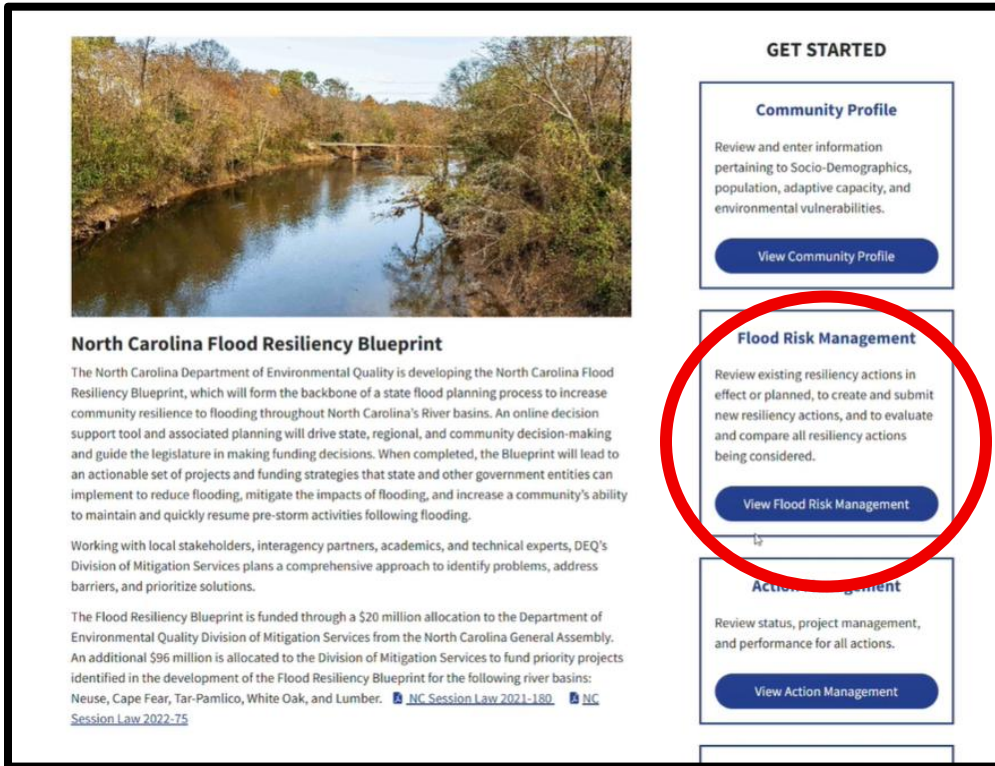
- Based on this polygon area, the tool will load four different tabs at the bottom of the page, including “**building mitigation action options**”, “**risk summary**”, “**impacted roads**”, and “**impacted buildings**”.

		Mitigation Type	Foot Height
+	☐	Wet Floodproofing	2
+	☐	Wet Floodproofing	4
+	☐	Wet Floodproofing	8
+	☐	Acquisition/Demolition	-

- You can navigate through this table by selecting any of these tabs at the top of the panel.
- You can use the white bar to the left and the right of the table to view more details. You can scroll up and down to view all the impacted buildings listed.

4.4 Map Overview

- Start by selecting “Flood Risk Management” from the welcome page.



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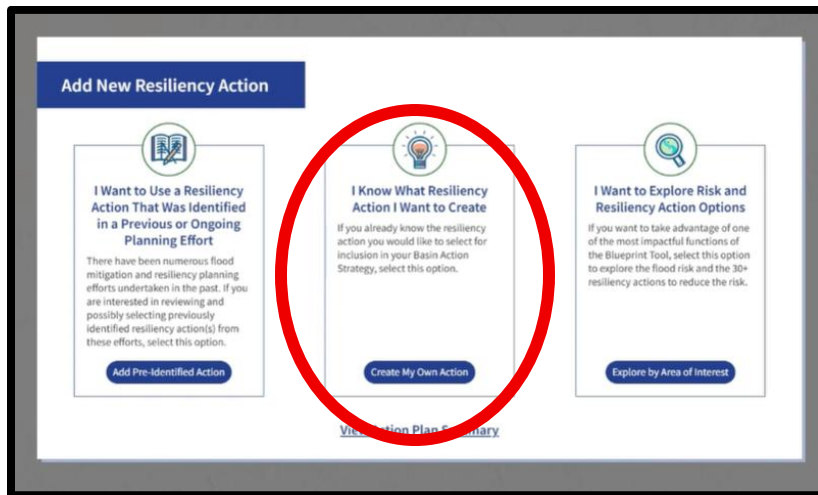
- Select a Resiliency Action Plan

My Action Plans [+ Create Draft Action Plan](#)

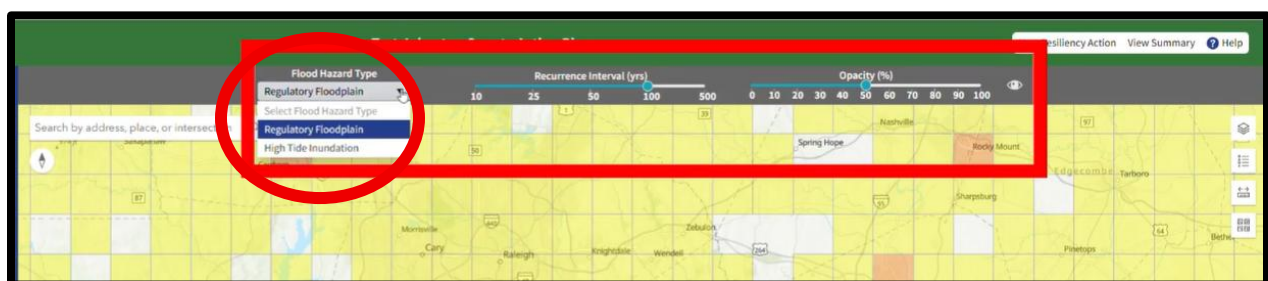
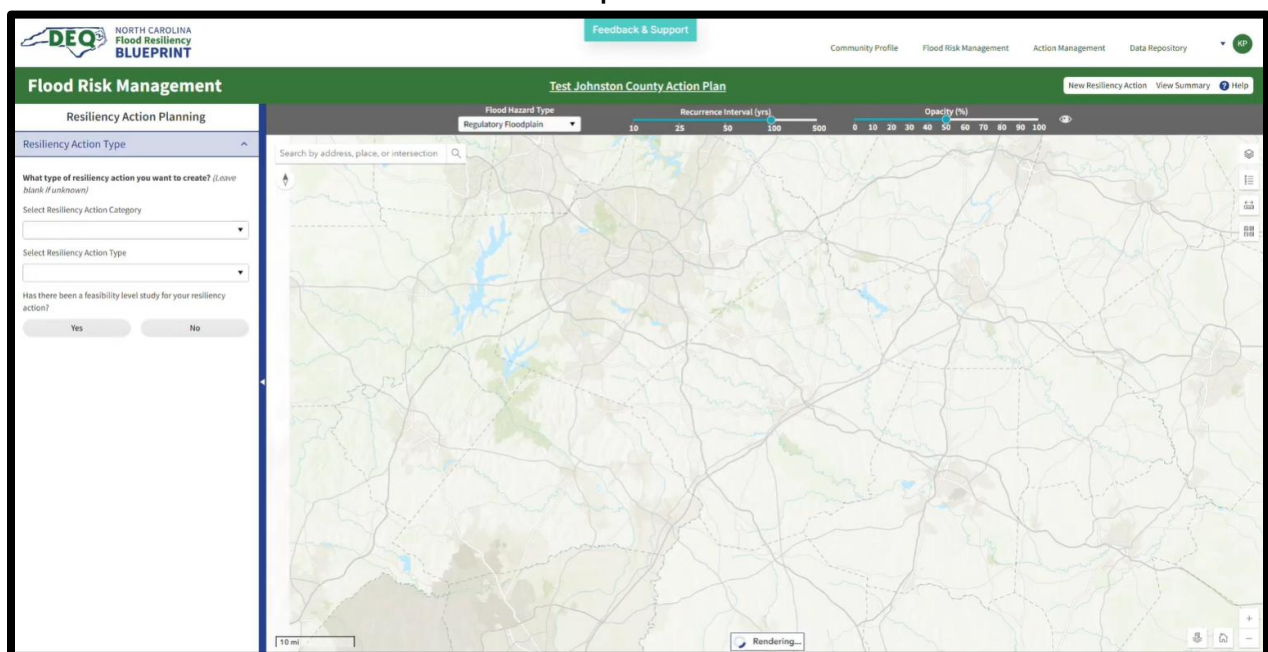
Open Plan	Plan Name	Jurisdiction	County	Basin	Description	Created By	Agency	Date Created	Modified By	Date Modified
	Kinston Sample Action Plan	City Of Kinston	Lenoir	Neuse		Judie Taylor	None	04/04/2025		
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	City of New Bern	City Of New Bern	Craven	Neuse	Create a plan for flood resilience in the Neuse River Basin specifically New Bern.	Peyton campbell	None	04/07/2025		
	Huffman Wayne County	9 Jurisdictions	Wayne	Neuse	Wayne County Action Plan for	John Smith	None	04/07/2025		

[Close](#)

- Select an action work-flow type



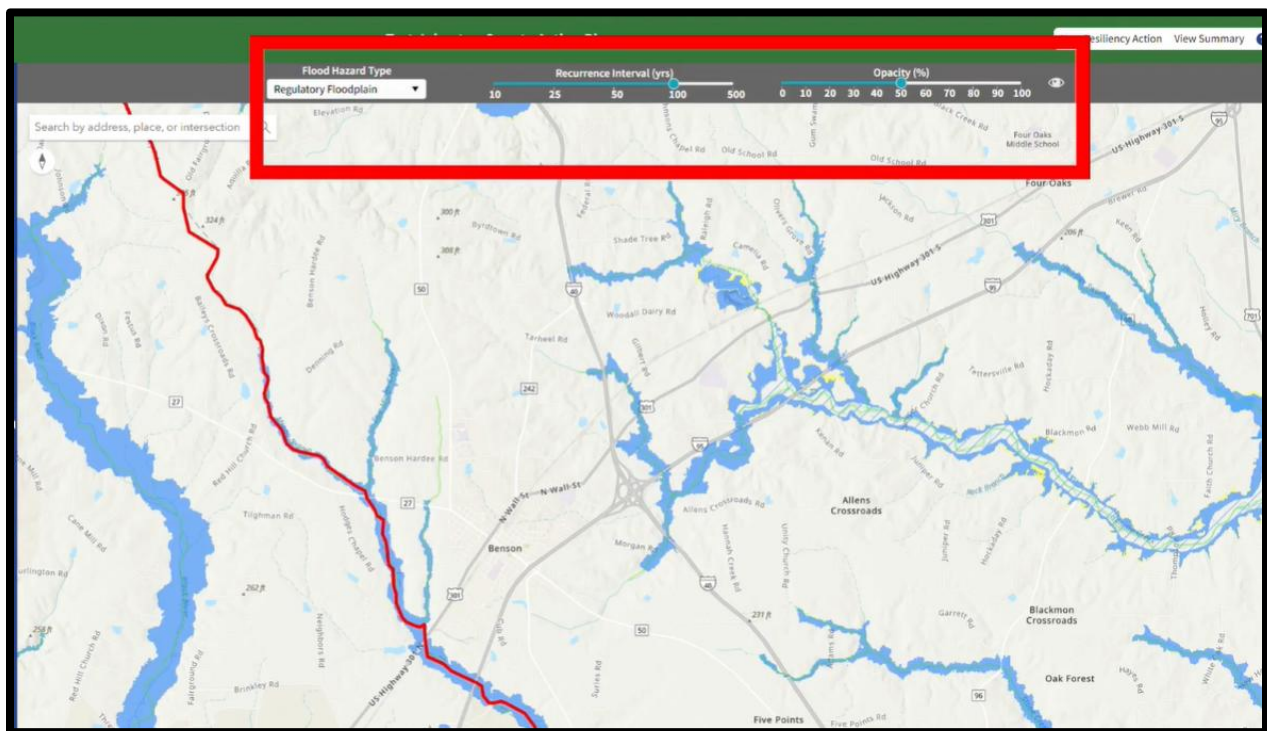
- You will be directed to this map view.



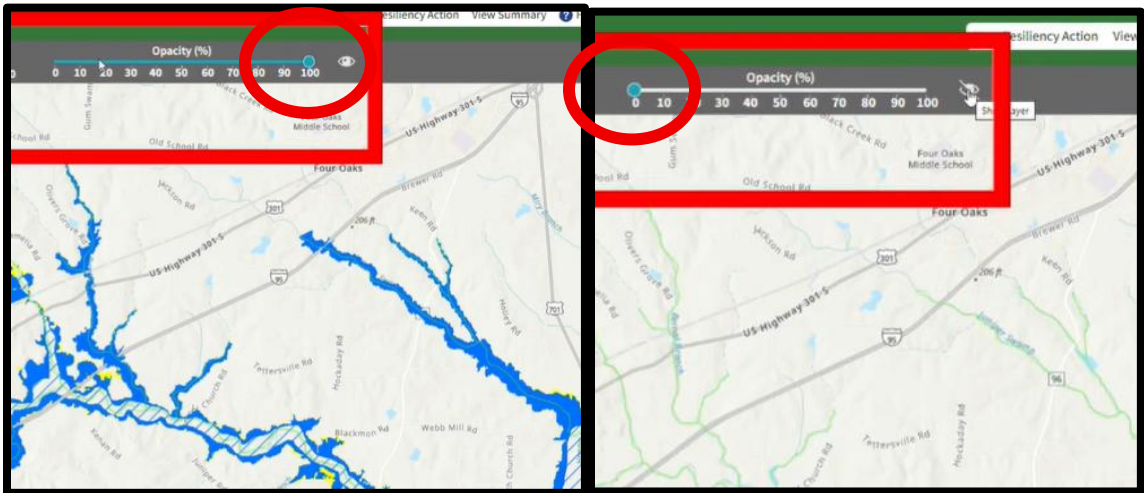
- You can select the flood hazard type you want to view.



- You can also change the “**recurrence interval**” for the event and the layer’s opacity.
- If you zoom in, you can see the regulatory floodplain under the flood hazard type that is currently selected. The default will be the 100-year recurrence interval.



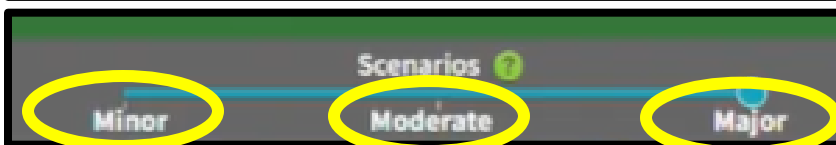
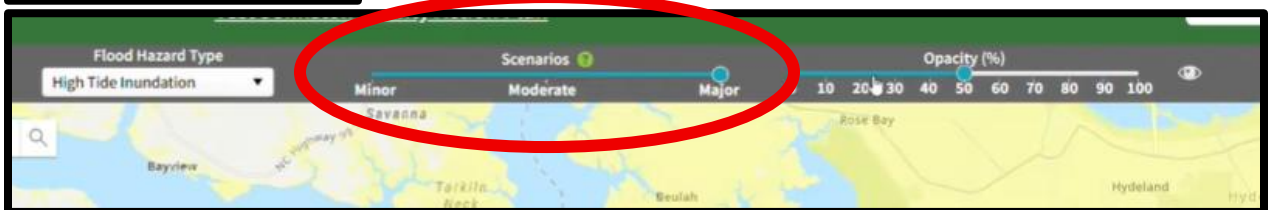
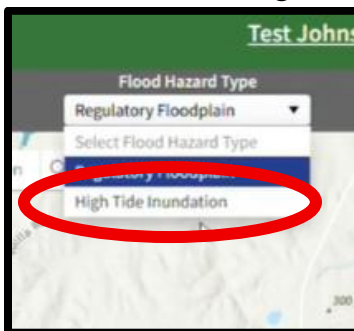
- You can also increase or decrease the opacity or hide or unhide the flood hazard layer selected.

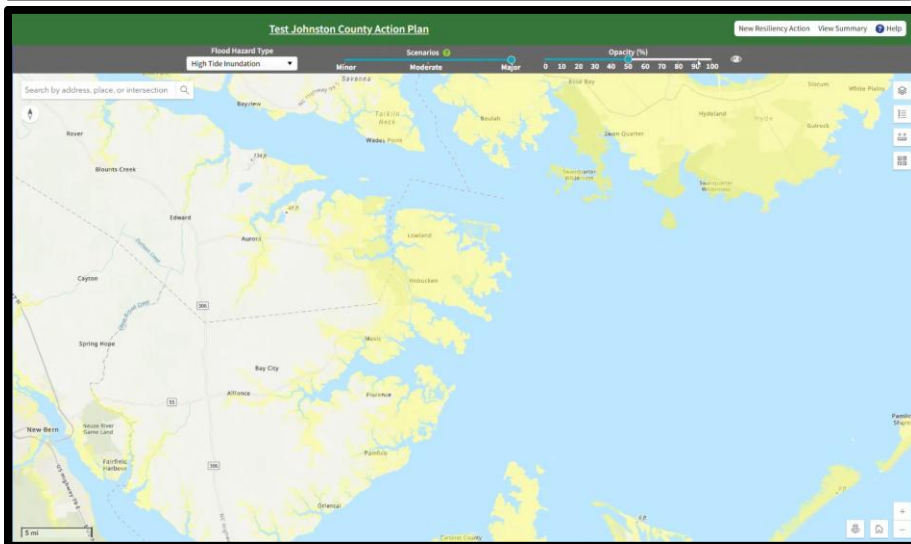
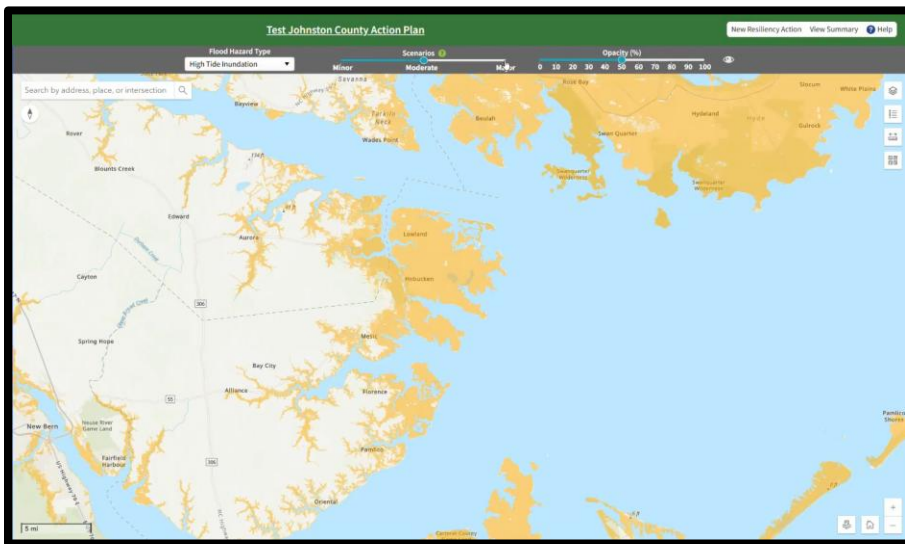
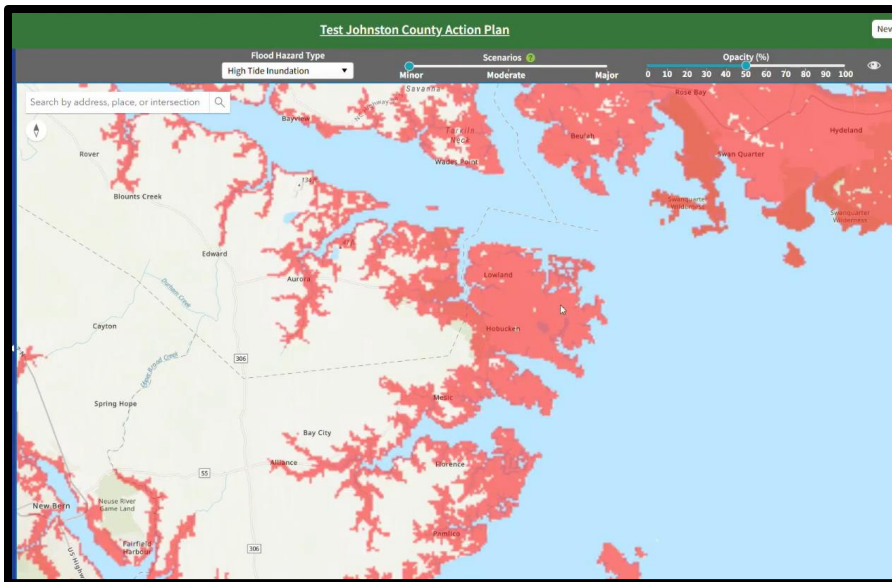


At higher opacity, the flood hazard layer will appear darker.

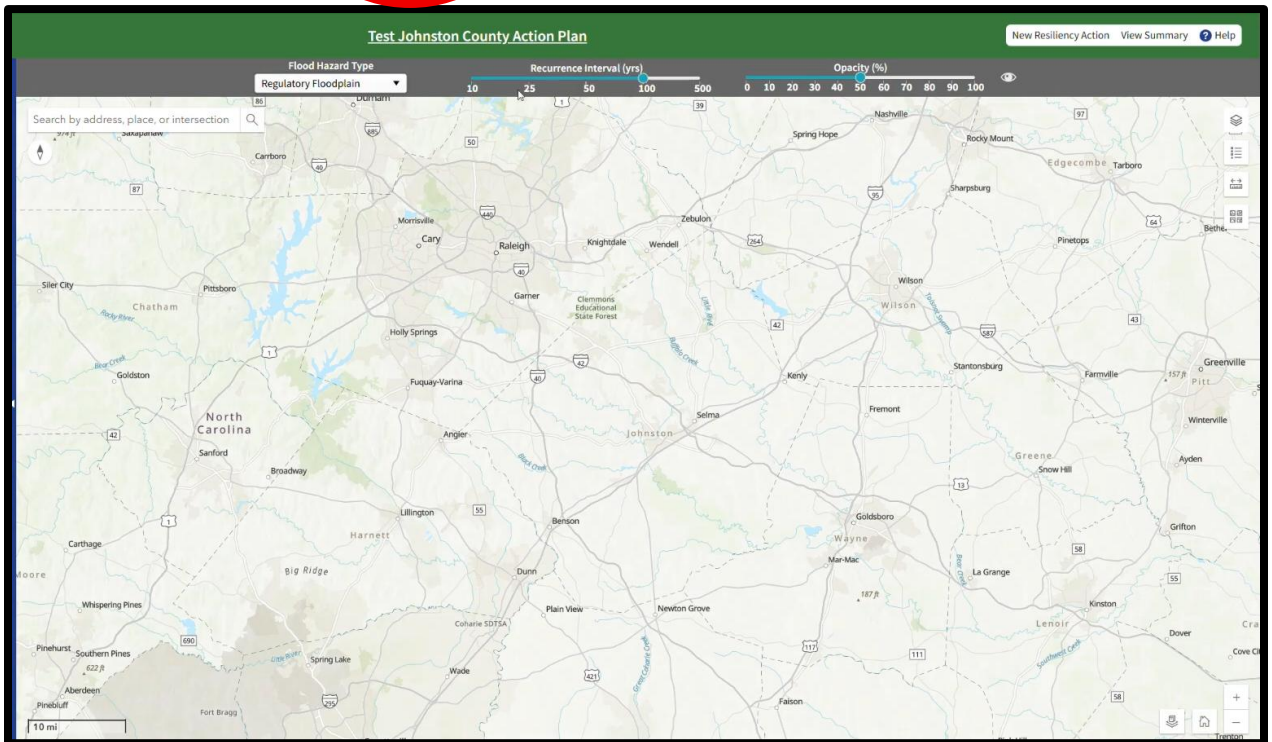
With eye symbol turned off to the right of the opacity bar, the flood hazard layer will be hidden.

- You can view the high tide inundation scenarios for minor, moderate, and major high tide inundation scenarios, changing the opacity or scenario using the sliders at the top of the window.

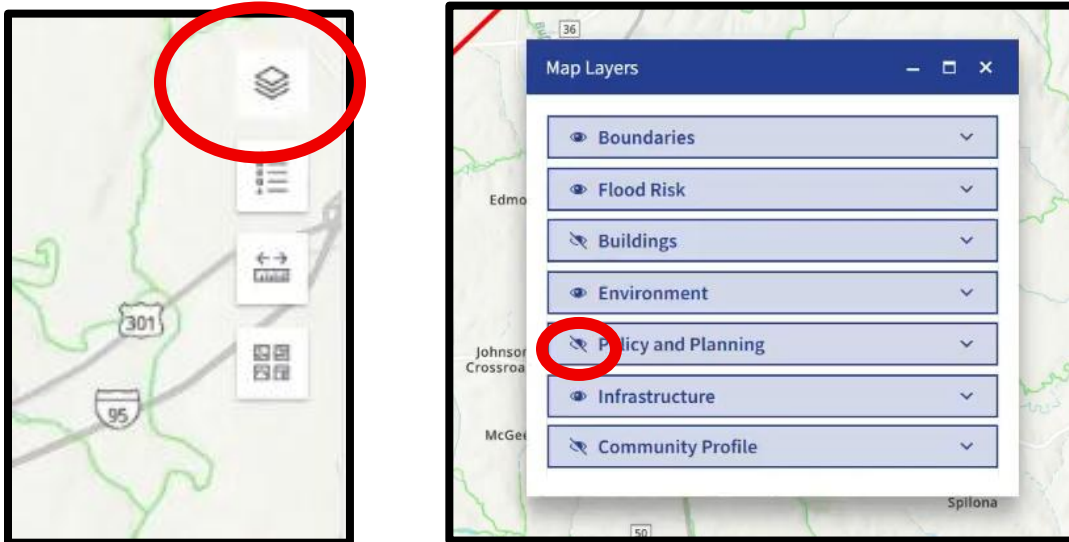




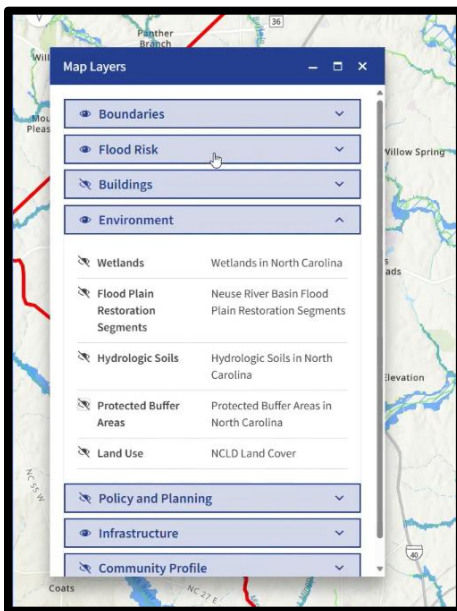
- You can return to the original view of the area, centered on the screen by selecting the home button at the bottom right corner of the map.



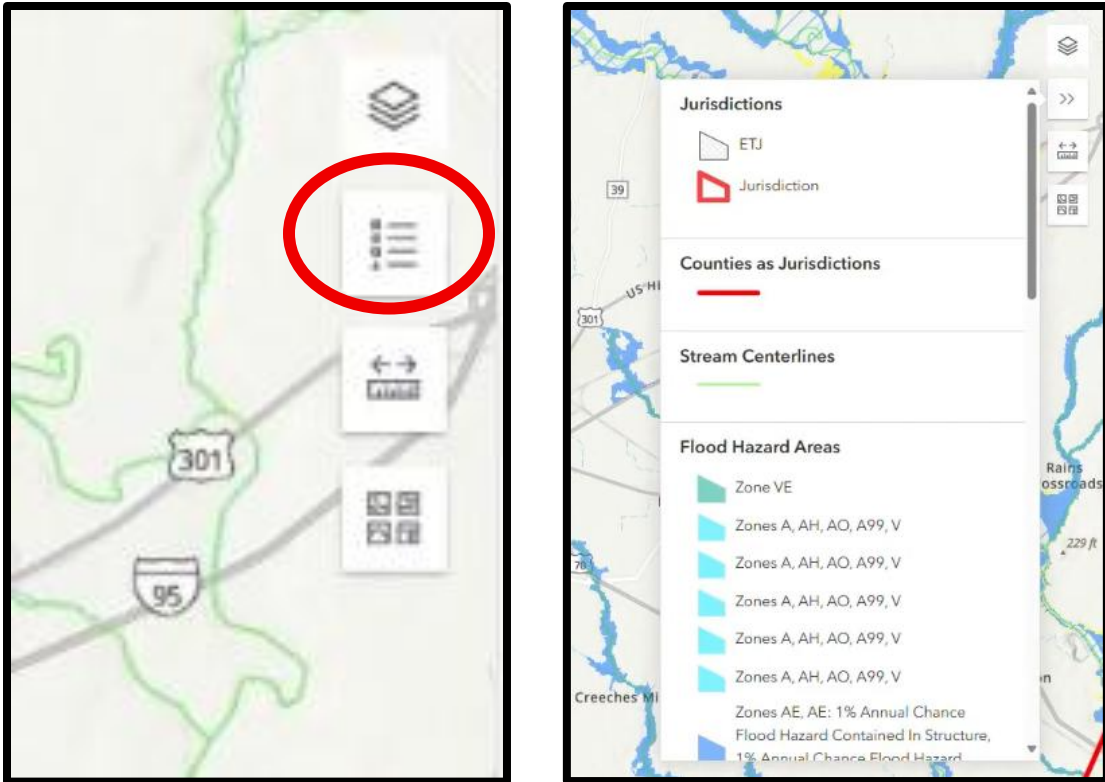
- You can also select which layer is shown on the map. The map layer picker is grouped by boundaries, flood risk, buildings, environment, policy and planning, infrastructure, and community profile.



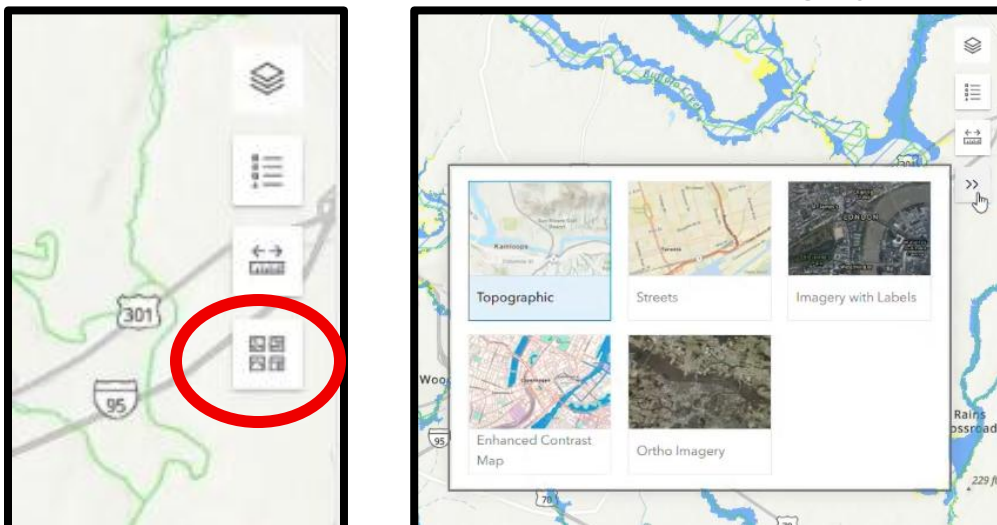
- You can sort through the layers and turn layers on or off using the eye icon on the left. You can turn off single layers or entire groups of layers by clicking the eye icon.
- This map layer picker can be moved, expanded or minimized.



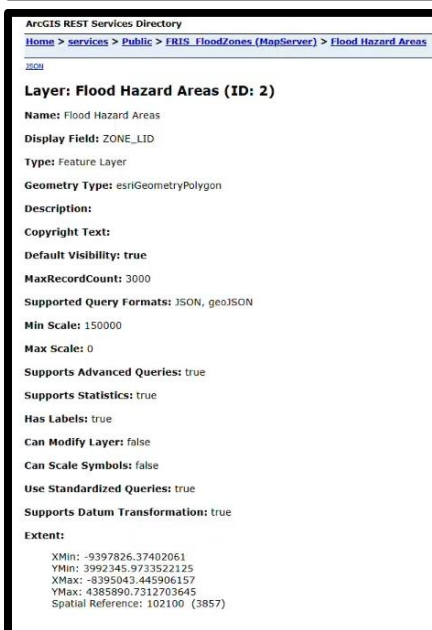
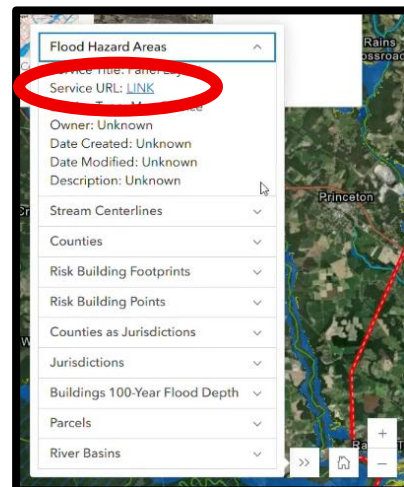
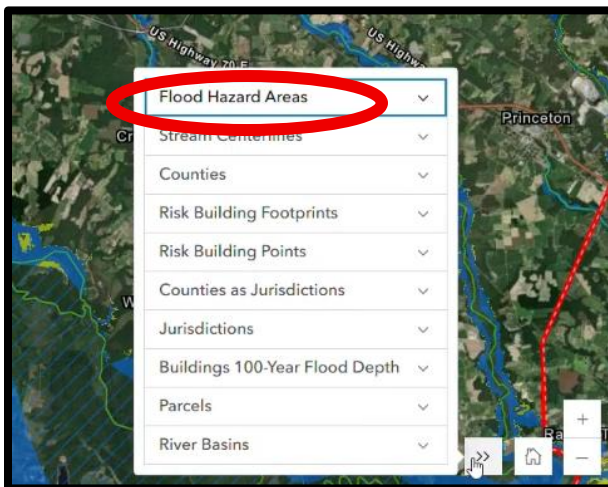
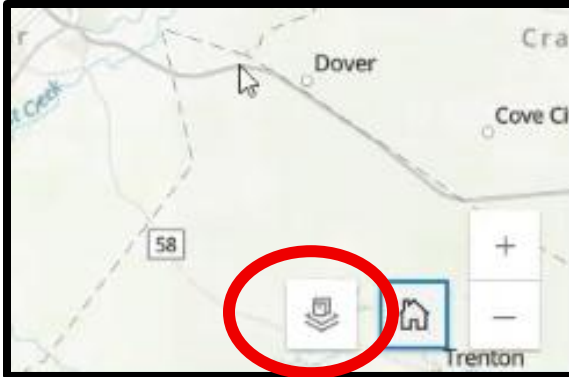
- To view symbology of the layers that you have selected. You can select the legend button. The legend will show the layers in the order that they appear on the screen.



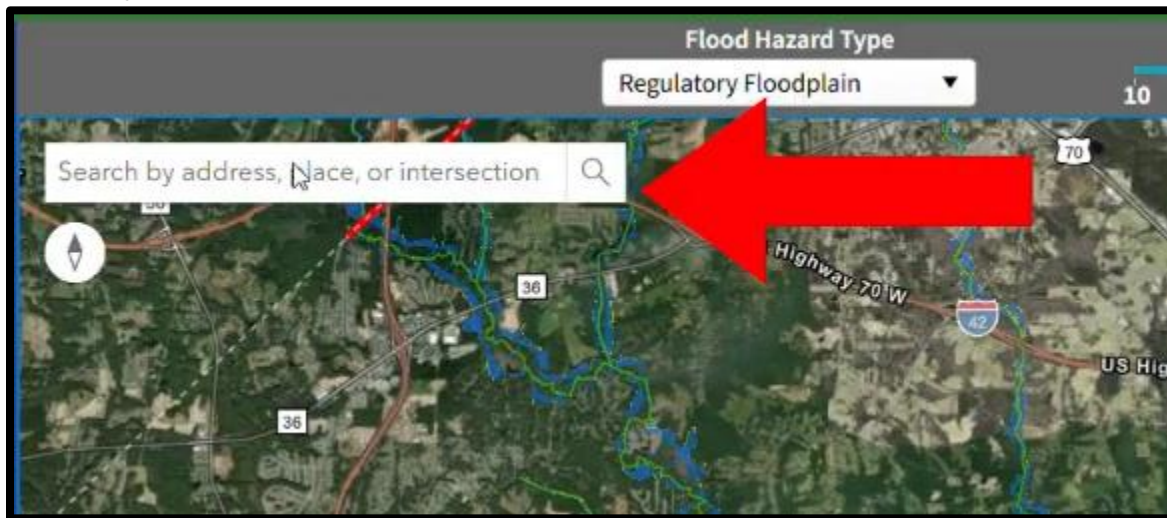
- You can also change the base map displayed. The base map gallery includes “**Topographic**” “**Street Imagery**”, “**Imagery with Labels**”, “**Enhanced Contrast Maps**”, or “**Ortho Imagery**” base maps.



- Any layers that are loaded, even if they are not visible, will be shown here in the data layer sources. First click the sources icon to the left of the home symbol, then to see flood hazard areas layer sources, click flood hazard areas, then the service URL link.



- Most of the layers will have service URLs and some of the layers will have descriptions.
- You can navigate the map by clicking the screen or you can search by an address, place, or intersection.



- You can return to the original map extent and display by selecting the home button in the bottom right of the map.



4.5 Area of Impact & Resiliency Action Location

- Start by selecting “Flood Risk Management” from the welcome page.



North Carolina Flood Resiliency Blueprint

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GET STARTED

Community Profile

Review and enter information pertaining to Socio-Demographics, population, adaptive capacity, and environmental vulnerabilities.

[View Community Profile](#)

Flood Risk Management

Review existing resiliency actions in effect or planned, to create and submit new resiliency actions, and to evaluate and compare all resiliency actions being considered.

[View Flood Risk Management](#)

Action Management

Review status, project management, and performance for all actions.

[View Action Management](#)

- Select a Resiliency Action Plan

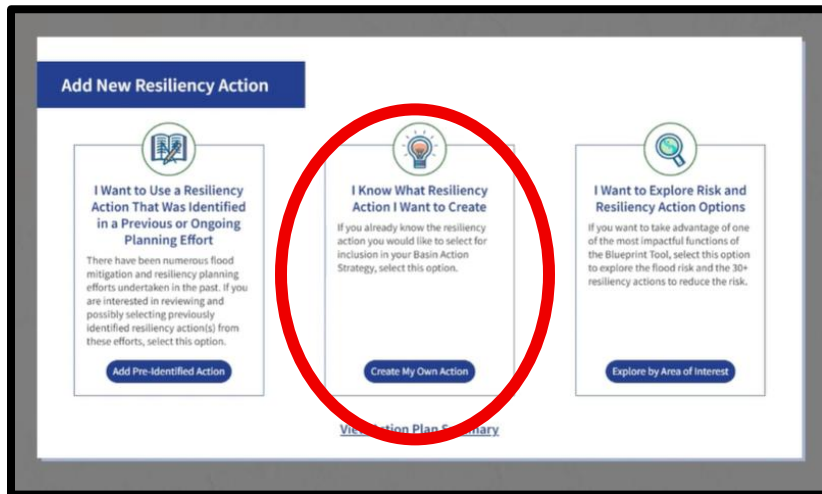
My Action Plans

[+ Create Draft Action Plan](#)

Open Plan	Plan Name	Jurisdiction	County	Basin	Description	Created By	Agency	Date Created	Modified By	Date Modified
	Kinston Sample Action Plan	City Of Kinston	Lenoir	Neuse		Judie Taylor	None	04/04/2025		
	Test	City Of Kinston	Craven, Lenoir	Neuse	Test	John Smith	None	04/07/2025		
	Test Johnston County Action Plan	Johnston County	Johnston	Neuse		John Smith	None	04/07/2025		
	KinstonTableWorkshop	City Of Kinston	Lenoir	Neuse		John Smith	None	04/07/2025		
	Jason's Master Plan	9 Jurisdictions	Craven	Neuse		John Smith	None	04/07/2025		
	Wayne County TEST	Wayne County	Wayne	Neuse		John Smith	None	04/07/2025		
	T's Wayne County Plan	Wayne County	Wayne	Neuse		John Smith	None	04/07/2025		
	City of New Bern	City Of New Bern	Craven	Neuse	Create a plan for flood resilience in the Neuse River Basin specifically New Bern.	Peyton campbell	None	04/07/2025		
	Huffman Wayne County	9 Jurisdictions	Wayne	Neuse	Wayne County Action Plan for	John Smith	None	04/07/2025		

Close

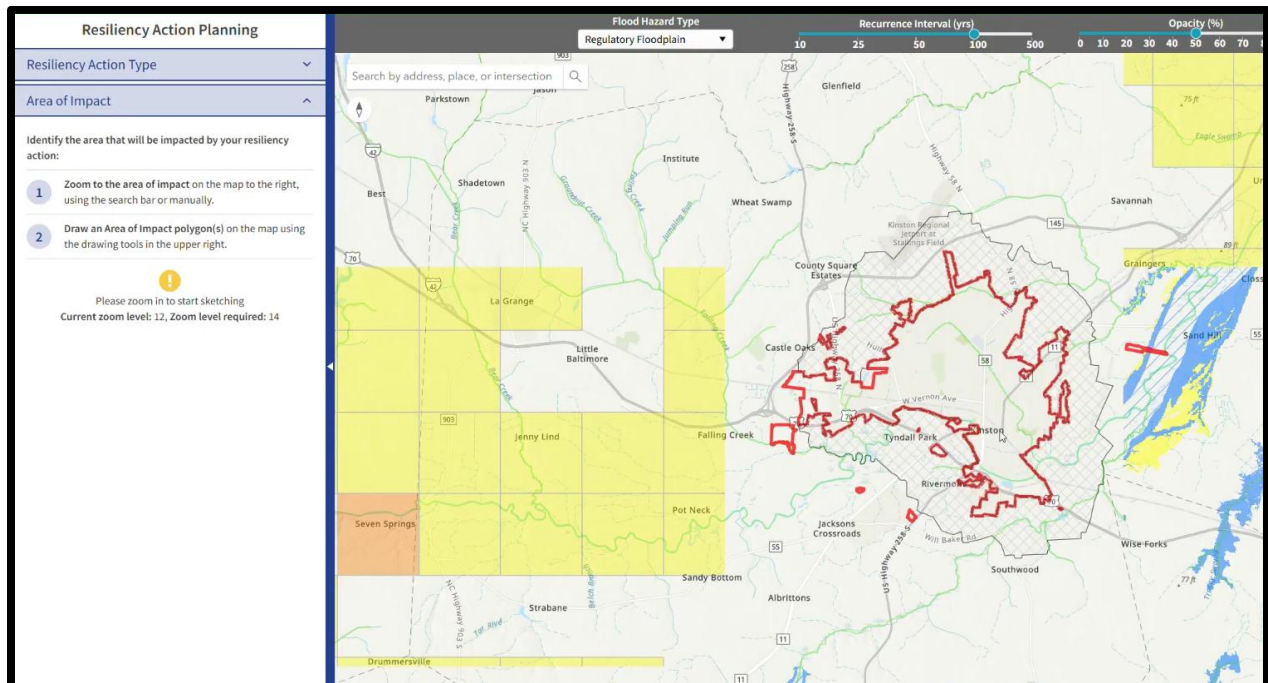
- Select an action work-flow type. For this example, select “I Know What Resiliency Action I Want to Create”.



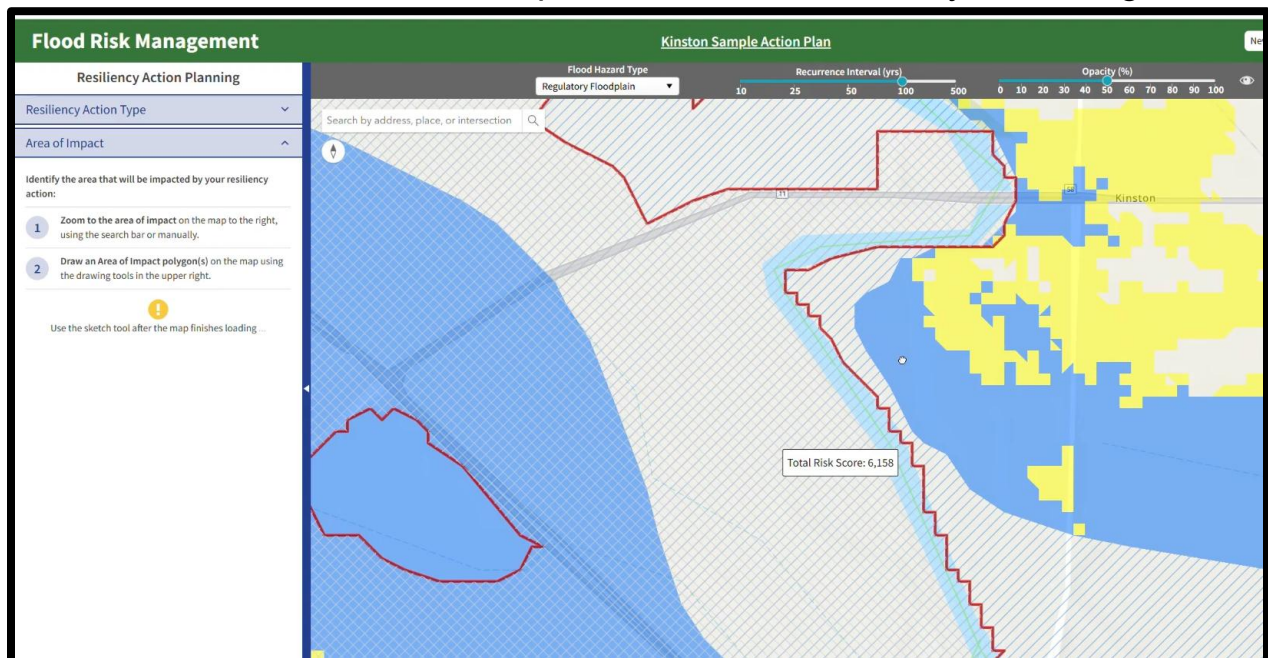
- Select an action category and type. In this case, select “Other” as the Resiliency Action Category and “Beaver Management” as the Resiliency Action Type.

A screenshot of a web application titled "Flood Risk Management". The section "Resiliency Action Planning" is highlighted. It contains a dropdown menu for "Resiliency Action Type" with an upward arrow. Below it, a question asks "What type of resiliency action you want to create? (Leave blank if unknown)". There are two dropdown menus: "Select Resiliency Action Category" with "Other" selected, and "Select Resiliency Action Type" with "Beaver Management" selected. A question asks "Has there been a feasibility level study for your resiliency action?" with "Yes" and "No" buttons. A "Next" button is at the bottom. The "Area of Impact" dropdown is partially visible at the bottom.

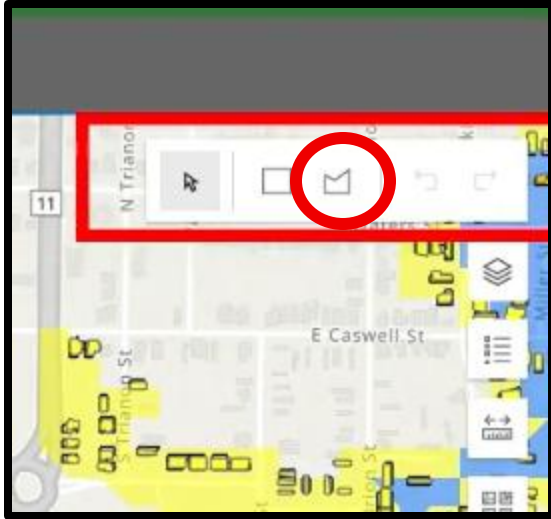
- Next, select an “Area of Impact”



- Zoom in to the “Area of Impact” in order to activate your editing tools.



- Using the drawing tools in the upper right corner, you can sketch the “Area of Impact”. You can use the rectangle shape option or the “polygon freeform” option to the right. For this example, select the “polygon freeform” option.



- Select the first point and drag the cursor to the next point.

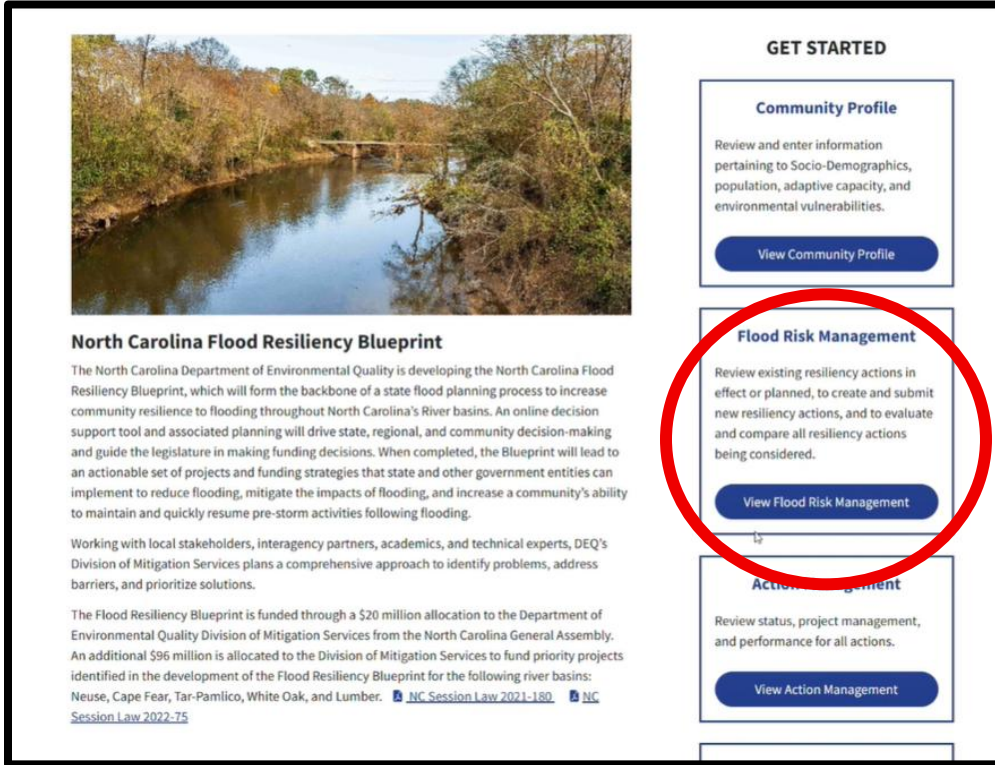


- Note, the “**Area of Impact**” is the area that is directly impacted by a resiliency action and the “**Resiliency Action Area**” is the area where the resiliency action is performed. For some resiliency actions, the “**Area of Impact**” would be the same “**Resiliency Action Area**”. For example, elevating a building would have the same “**Area of Impact**” as the resiliency action itself, but a debris removal project may be

implemented in one place, but the “**Area of Impact**” may be a larger area because debris removal would reduce flooding damage caused by it.

5.1 Create an Action by Exploring by Area of Interest

- Start by selecting “Flood Risk Management” from the welcome page.



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GET STARTED

- Community Profile**
Review and enter information pertaining to Socio-Demographics, population, adaptive capacity, and environmental vulnerabilities.
[View Community Profile](#)
- Flood Risk Management**
Review existing resiliency actions in effect or planned, to create and submit new resiliency actions, and to evaluate and compare all resiliency actions being considered.
[View Flood Risk Management](#)
- Action Management**
Review status, project management, and performance for all actions.
[View Action Management](#)

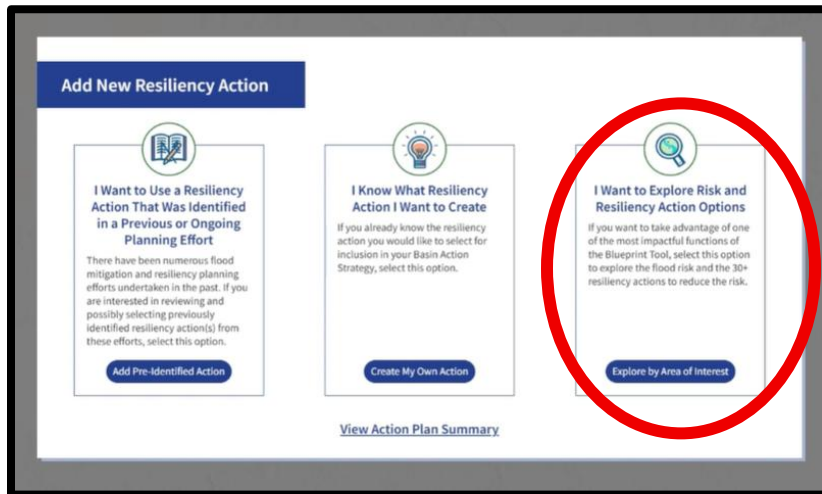
- Select a Resiliency Action Plan

My Action Plans [+ Create Draft Action Plan](#)

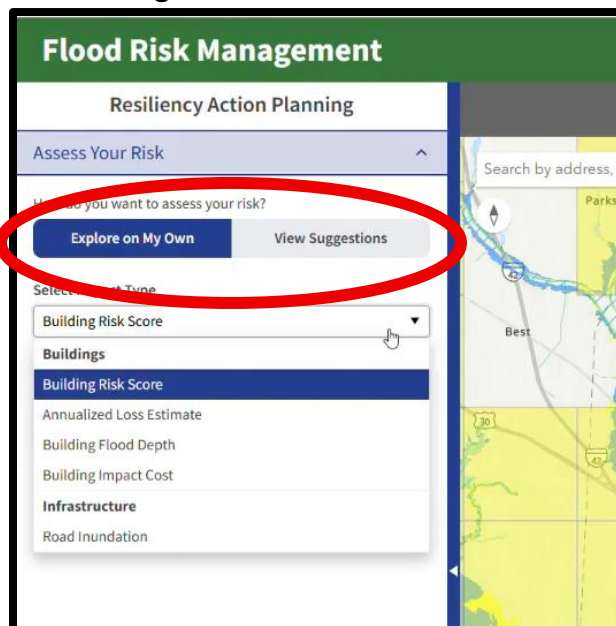
Open Plan	Plan Name	Jurisdiction	County	Basin	Description	Created By	Agency	Date Created	Modified By	Date Modified
	Kinston Sample Action Plan	City Of Kinston	Lenoir	Neuse		Judie Taylor	None	04/04/2025		
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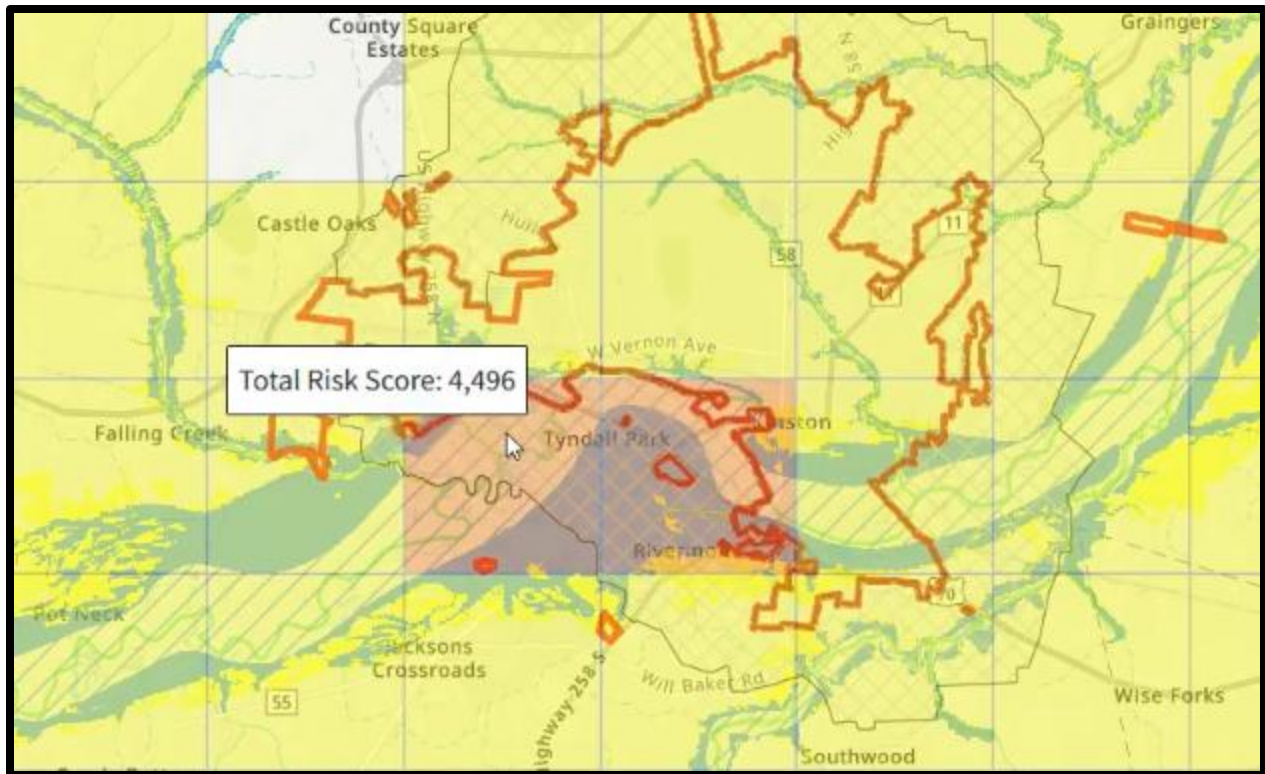
Close

- Select “I Want to Explore Risk and Resiliency Action Options”



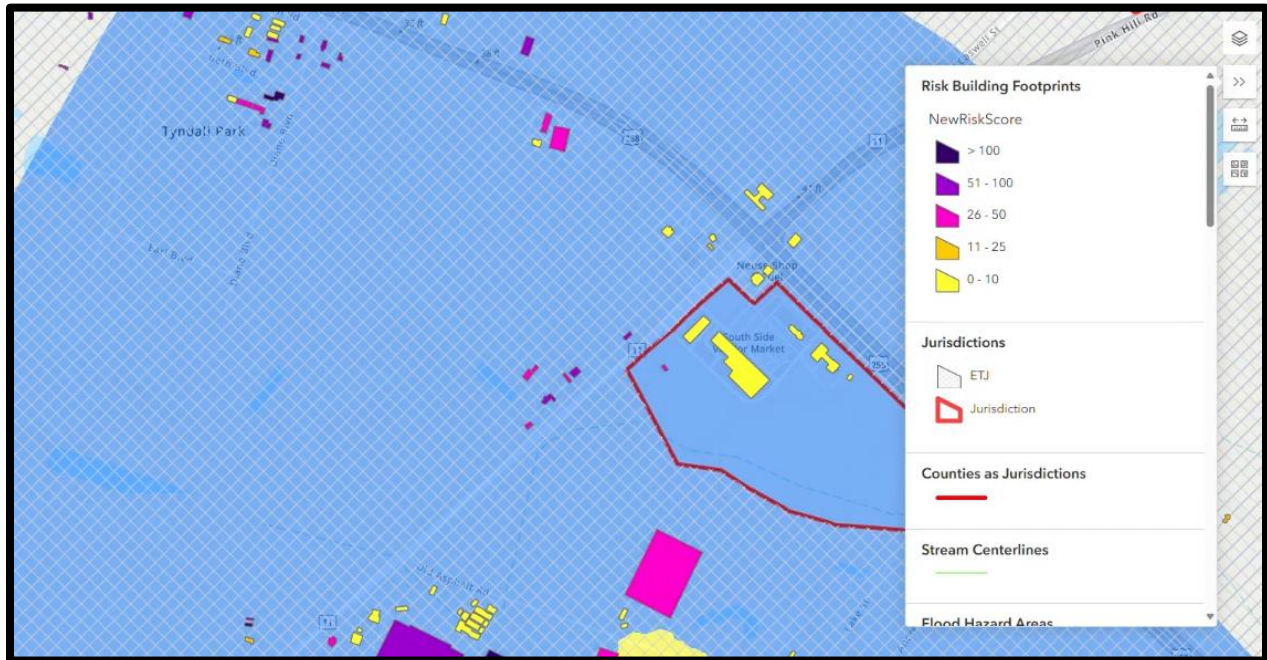
- We can use this option to identify which areas within the jurisdiction are most vulnerable to flooding. This includes the buildings, roads, or areas that are most at risk of flooding impacts.
- The tool allows you to explore on your own, which means that you will be looking at the map and navigating to things based on what you see, or you can view suggestions, which will give you a list of the most impacted buildings or roads in the area.



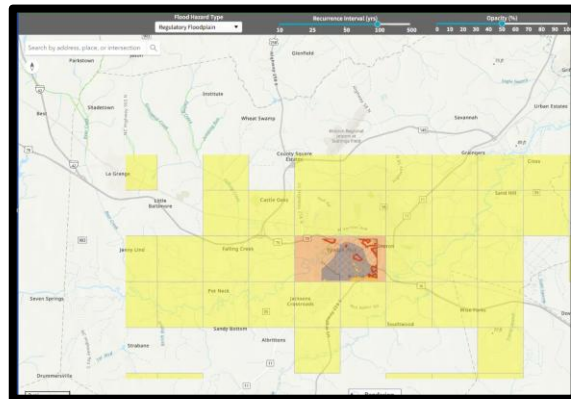


- In the explore on your own option, you will initially see a heat map that aggregates data for a given area based on the impact type that is selected on the left.
- In this case, the heat map is based on the building's **risk score**. The **risk score** is calculated by dividing the **annualized loss estimate** by the **building's replacement value**. This removes cost from the calculation of flood risk.
- So, any two buildings of the same size would have the same risk score for the same flood depth.
- The risk score displayed when the cursor is moved over each heat map cell is the aggregation of the risk scores for each of the buildings in that cell. If the risk score in a cell is 21, it means that the total risk score for all buildings in that cell is 21.

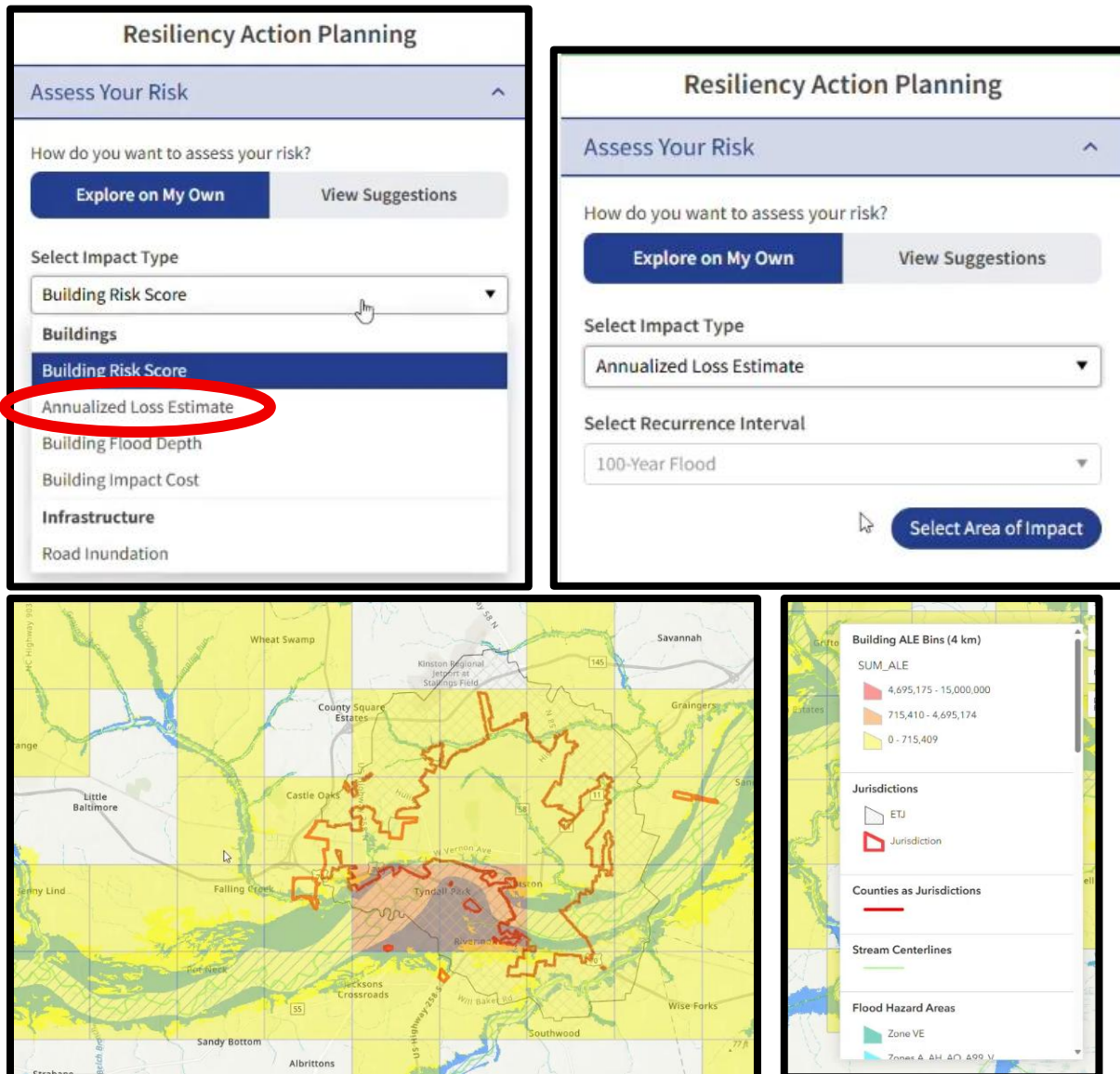
- As you zoom in closer, the map will show more details. If you zoom in and hover over the map, you can find problem areas within the jurisdiction.



- As you continue to zoom in, you start seeing the building footprints that have risk scores above zero.
- To zoom back out, you can select the home button in the lower right corner.



- You will now choose the annualized loss estimate impact type which will show an estimate of dollars of loss for buildings each year related to flood damage.



- This is correlated to the flood risk score and looks very similar to the building risk score.

- When you look at the building flood depth, the map will show the number of buildings that would be impacted by the chosen flood interval event.

Flood Risk Management

Resiliency Action Planning

Assess Your Risk

How do you want to assess your risk?

Explore on My Own View Suggestions

Select Impact Type

Building Risk Score

Buildings

Building Flood Depth

Building Impact Cost

Infrastructure

Road Inundation

Resiliency Action Planning

Assess Your Risk

How do you want to assess your risk?

Explore on My Own View Suggestions

Select Impact Type

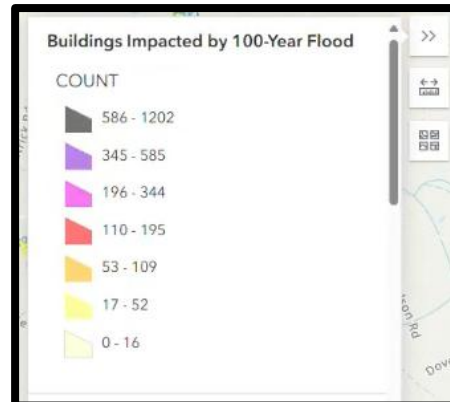
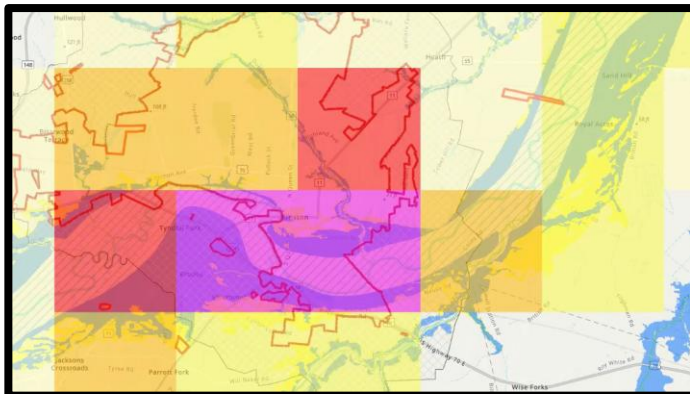
Building Flood Depth

Select Recurrence Interval

100-Year Flood

Select Area of Impact

Area of Impact



- If you change the recurrence interval from 100-year to 500-year, the number of buildings impacted by the chosen flood interval events in the same area will increase at the 500year recurrence interval.

Select Recurrence Interval

100-Year Flood

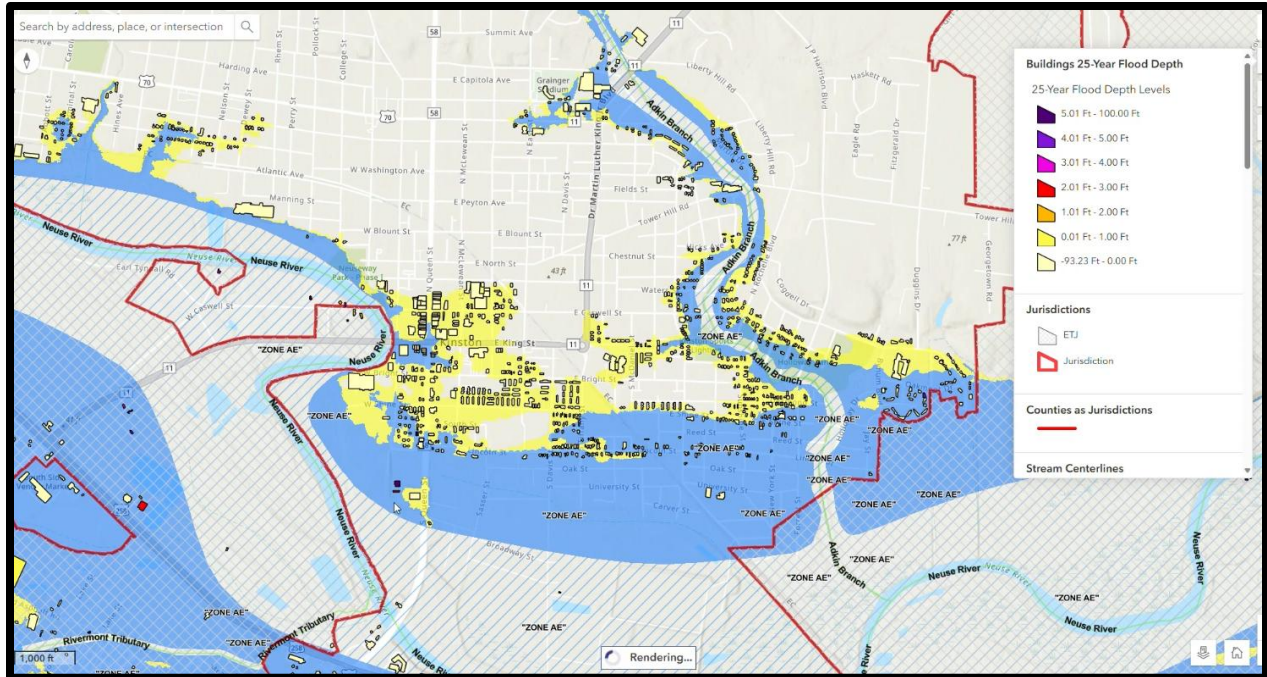
10-Year Flood

25-Year Flood

50-Year Flood

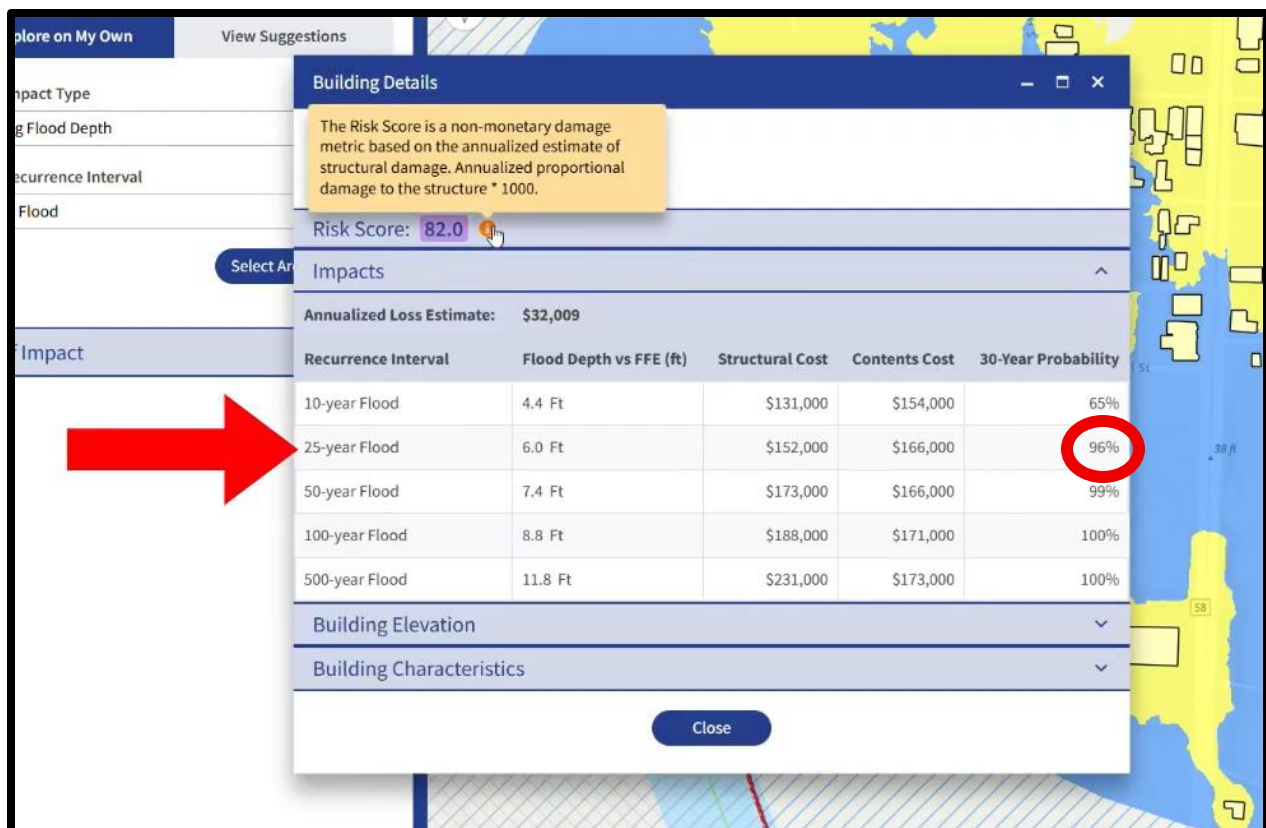
500-Year Flood

- Once you zoom in further, you start to see building footprints in which areas have buildings at risk. Here you can see that the dark purple buildings are at risk of experiencing more than 5 ft of flooding during the 100-year event.



- If you click on one of the buildings, you can see more information about the potential damages and flood depths for each recurrence interval, as well as the building's characteristics.





- For this building, you can see that the 25-year flood event is expected to incur a structural cost of \$152,000 and a contents cost of \$166,000 due to 6 ft of flooding compared to the first floor elevation. You can see there's a 96% probability that this event will occur over a 30-year period.

Building Details

Building ID: 3710720543
Parcel ID: 4524-39-2629

Risk Score: 82.0 ⓘ

Impacts ▾

Building Elevation ▴

First Floor Elevation	Lowest Adjacent Grade	Highest Adjacent Grade	BFE
28.8 Ft	27.3 Ft	29.6 Ft	37.5 Ft

Building Characteristics ▾

Close

- You can expand the building elevation details to see the first-floor elevation, the lowest adjacent grade, the highest adjacent grade, and the base flood elevation (BFE) at the building.

Building Details

Building ID: 3710720543
Parcel ID: 4524-39-2629

Risk Score: 82.0 ⓘ

Impacts ▾

Building Elevation ▾

Building Characteristics ▴

Occupancy Type	Heated Area	Foundation Type	Number of Stories	Year Built	Replacement Value
RES1 - FIELD DERIVED - HIGH CONFIDENCE	5,546.0	SLAB ON GRADE - FIELD DERIVED - HIGH CONFIDENCE	1 - FIELD DERIVED - HIGH CONFIDENCE	1958	\$390,383

Close

- You can also expand the building characteristics to view the occupancy type, heated area, foundation type, number of stories, year built, and the structural replacement value.

- Selecting view suggestion is another way you can explore impacts.

The screenshot shows the 'Assess Your Risk' interface. At the top, there's a header 'Assess Your Risk' with an upward arrow. Below it, a question 'How do you want to assess your risk?' is followed by two buttons: 'Explore on My Own' and 'View Suggestions'. The 'View Suggestions' button is circled in red. Below the buttons, there's a text prompt 'Select how many results you want in your list' and a slider labeled 'TOP 10 OPTIONS' with a range from 5 to 50. The slider is currently set to 10. Below the slider, there's a dropdown menu titled 'Select Top 10 List' with the option 'Top at Risk Properties by Flood Depth' selected. Below the dropdown, there's a list of options: 'Top at Risk Properties by Flood Depth', 'Top at Risk Properties by Impact Cost', 'Top at Risk Properties (Critical Facilities)', and 'Top at Risk Properties (Under-Resourced)'. The first option is highlighted in blue.

- You can view 5 - 50 suggestions, but for this demonstration, you will look at the top 10 buildings by flood depth.

The screenshot shows the 'Assess Your Risk' interface. At the top, there's a question 'How do you want to assess your risk?' followed by two buttons: 'Explore on My Own' and 'View Suggestions'. Below the buttons, there's a text prompt 'Select how many results you want in your list' and a slider labeled 'TOP 10 OPTIONS' with a range from 5 to 50. The slider is currently set to 10, and this slider is circled in red. Below the slider, there's a dropdown menu titled 'Select Top 10 List' with the option 'Top at Risk Properties by Flood Depth' selected. Below the dropdown, there's a button labeled 'Select Area of Impact'.

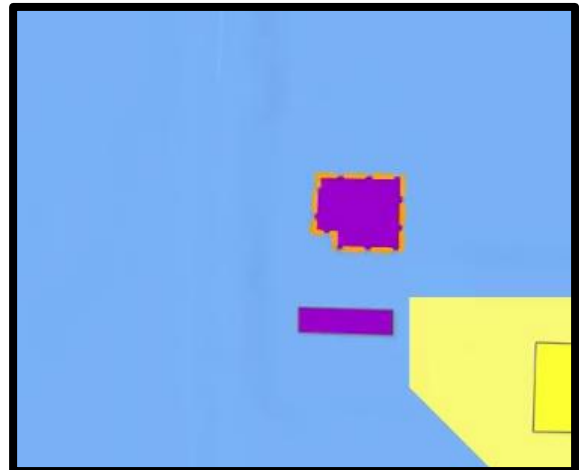
- Here you can see the list of impacted buildings. The list will show the 10 buildings at the highest risk for each recurrence interval.

Impacted Buildings Impacted Roads Risk									
Building ID	100-Yr Flood				500-Yr Flood				Structural Cost
	Structural Cost	Contents Cost	Probability	Flood Depth vs FFE (ft)	Structural Cost	Contents Cost	Probability	Flood Depth vs FFE (ft)	
☒ 3710720543	\$173,000	\$169,000	1.0000	8.8 Ft	\$188,000	\$171,000	1.0000	11.8 Ft	\$231,000
☒ 3710720645	\$1,018,000	\$3,163,000	1.0000	8.8 Ft	\$1,219,000	\$3,236,000	1.0000	10.8 Ft	\$1,525,000
☒ 3710720497	\$77,000	\$239,000	1.0000	8.7 Ft	\$92,000	\$245,000	1.0000	10.8 Ft	\$115,000
	\$1,728,000	\$5,536,000			\$2,036,000	\$5,629,000			\$2,597,000

*The included data is for planning purposes only. It is not at the level of detail of current market values.

- You can scroll across the table to view the 100-year flood event and see the corresponding flood depth.
- If you click on the building ID you want to see, you can see exactly where the building is on the map. This can help identify the areas where there are buildings at risk.

Impacted Buildings Impacted Roads Risk		
Building ID	100-Yr Flood	
	Structural Cost	Contents Cost
☒ 3710720543	\$173,000	\$169,000
☒ 3710720645	\$1,018,000	\$3,163,000
☒ 3710720497	\$77,000	\$239,000
	\$1,728,000	\$5,536,000



- Next, you will look at the 100-year flood road inundation impact points.
- Go back to “Explore on My Own” and select “Road Inundation”

Resiliency Action Planning

Assess Your Risk

How do you want to assess your risk?

Explore on My Own View Suggestions

Select Impact Type

Building Risk Score

Buildings

Building Risk Score

Annualized Loss Estimate

Building Flood Depth

Building Impact Cost

Infrastructure

Road Inundation

How do you want to assess your risk?

Explore on My Own View Suggestions

Select Impact Type

Road Inundation

Select Recurrence Interval

100-Year Flood

Select Area of Impact

- To see the road inundation points, you will zoom in closer and start to see the road inundation points in these flood hazard areas. Here you can click on any of the points to obtain more information about the selected road segment that has been impacted.



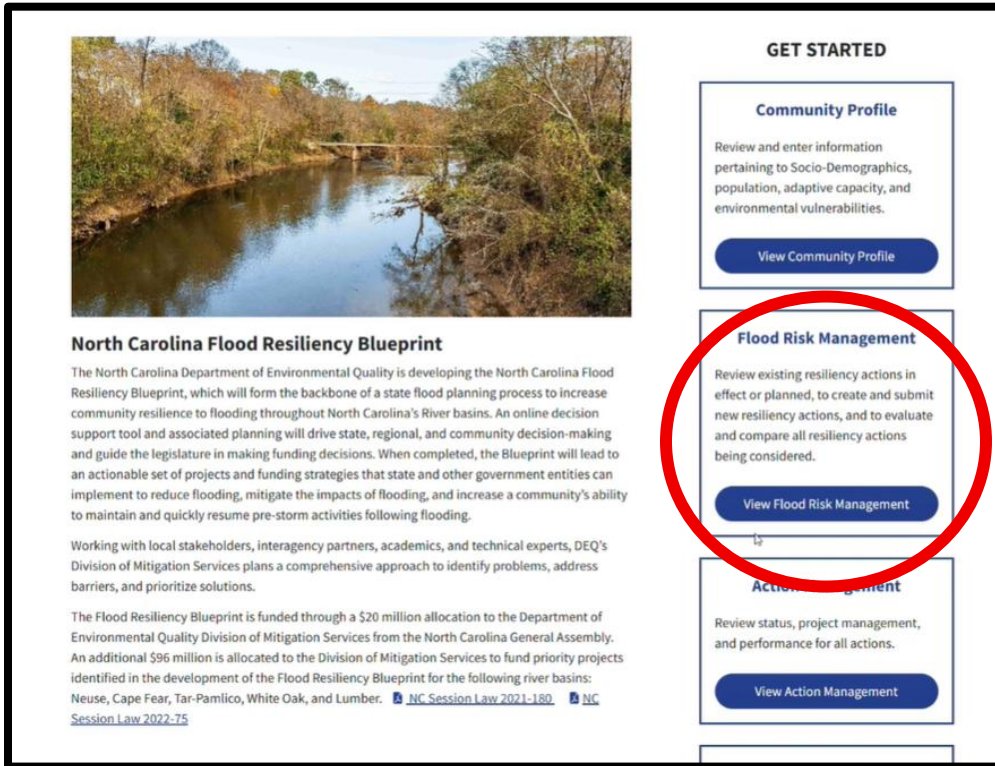
- For these points, you see that the flood depth above the road exceeds 2 ft, indicating that this area of the road could become inundated during the flood event and become hazardous.



- For more information about how the annualized loss estimates and risk scores are calculated, please see the technical documentation for building mitigation actions and risk scoring in the data repository.

5.2 Create an Action from Preidentified Actions

- Start by selecting “Flood Risk Management” from the welcome page.



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GET STARTED

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[View Flood Risk Management](#)

Action Management
Review status, project management, and performance for all actions.
[View Action Management](#)

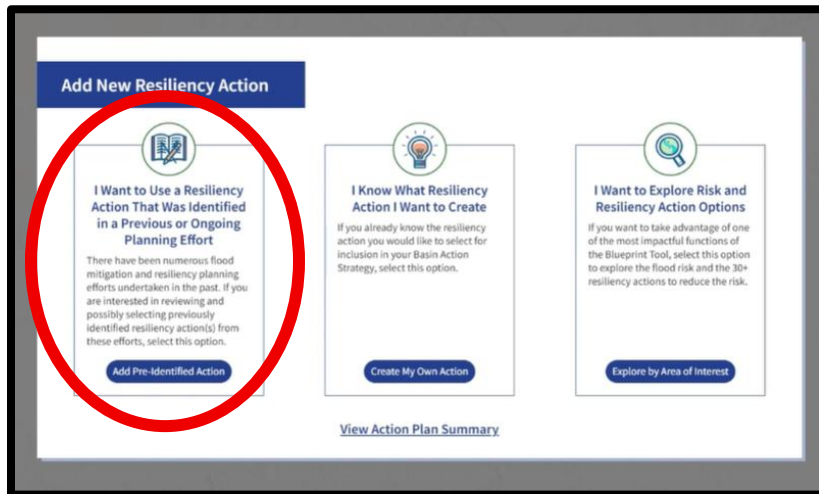
- Select a Resiliency Action Plan

My Action Plans [+ Create Draft Action Plan](#)

Open Plan	Plan Name	Jurisdiction	County	Basin	Description	Created By	Agency	Date Created	Modified By	Date Modified
	Kinston Sample Action Plan	City Of Kinston	Lenoir	Neuse		Judie Taylor	None	04/04/2025		
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	Test Johnston County Action Plan	Johnston County	Johnston	Neuse		John Smith	None	04/07/2025		
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	Huffman Wayne County	9 Jurisdictions	Wayne	Neuse	Wayne County Action Plan for	John Smith	None	04/07/2025		

Close

- Select “I want to use a resiliency action that was identified in a previous or ongoing planning effort.”



- Pre-identified actions are actions that have been identified through other planning processes such as hazard mitigation planning. The details of these potential resiliency actions are loaded into the tool so that you can review the actions and add them to your action plan.

Flood Risk Management

Test Johnston County Action Plan

Resiliency Action Planning

Pre-identified

*Select your pre-identified resiliency action from the table on the right

Action Not in List, Enter Manually

Search by address, place, or intersection

Flood Hazard Type: Regulatory Floodplain

Recurrence Interval (yrs): 10, 25, 50, 100, 500

Opacity (%): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100

Select the Pre-identified Resiliency Action you want to import

Name	Plan	Location	Basin	County	Community	Category
☐ Selma Town Hall and Selma Town Library	RHMP-Cape Fear	Cape Fear - Johnston County - Town of Selma	Neuse	JOHNSTON	Selma	Policy & Planning
☐ Selma Town Hall	RHMP-Cape Fear	Cape Fear - Johnston County - Town of Selma	Neuse	JOHNSTON	Selma	
☐ Selma Fire Department	RHMP-Cape Fear	Cape Fear - Johnston County - Town of Selma	Neuse	JOHNSTON	Selma	Policy & Planning
☐ Johnston Town Hall	RHMP-Cape Fear	Cape Fear - Johnston County - Town of Princeton	Neuse	JOHNSTON	Princeton	Infrastructure
Johnston County Water Treatment Plant - Central						

Currently Viewing Actions In: In Jurisdiction

- The tool will automatically filter to the pre-identified actions associated with the jurisdictions listed in your resiliency action plan. For this jurisdiction, there are eight pre-identified actions.

- If you zoom in, the tool will indicate at the top of the table that you are currently viewing pre-identified resiliency actions in the map extent or selected area. To see more details about the pre-identified actions, you can select the action name or select one of the circles on the map.



☐	Princeton Town Hall	RHMP- Cape Fear
☐	Johnston County Water Treatment Plant; Central Johnston County Regional Wastewater Treatment Facility	HMRRP
☐	Johnston County Courthouse and Johnston County Health Department	RHMP
☐	Bridge No. 40 (US 70 Business-market st.)	RHMP- Cape Fear
☐	Princeton Town Hall	RHMP- Cape Fear

- The tool will provide you with the details on the existing action.

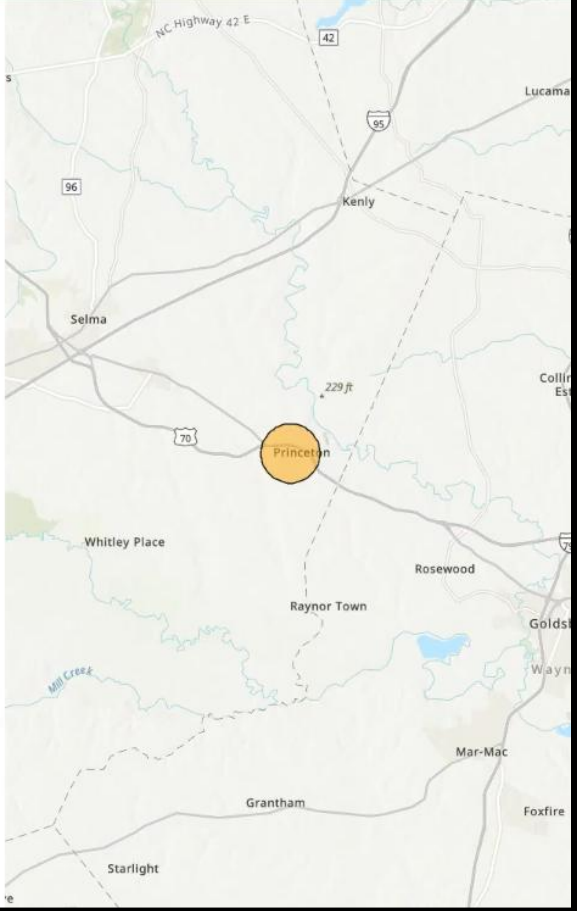
Existing Action Details

Princeton Town Hall

Maintain a system at Town Hall for identifying towns' special needs citizens within the Princeton area.

Category	PP
Location	Cape Fear - Johnston County - Town of Princeton
Basin	Neuse
Basin Location	Middle
County	Johnston
Community	Princeton
Estimated Cost	Not Available
Plan	RHMP- Cape Fear
Plan Year	2020
Owner/Manager	Police Dept., Admin.
Status & Barriers	2025 - In progress: no measurable progress due to lack of funding

Okay
Select Action



- You can choose to include that action in the action details popup or close out of the window after reviewing the action details and check the box next to any of the actions in the table to add them to your plan.

Facility

☐
[Johnston County Courthouse and Johnston County Health Department](#)

☐
[Bridge No. 40 \(US 70 Business-market st.\)](#)

☒
[Princeton Town Hall](#)

- When you select an action, the tool will also display relevant details about the pre-identified action in the panel on the left.

Flood Risk Management

Resiliency Action Planning

Pre-identified ^

Princeton Town Hall

Maintain a system at Town Hall for identifying towns' special needs citizens within the Princeton area.

County	Johnston
Community	Princeton
Estimated Cost	Not Available
Plan	RHMP- Cape Fear
Plan Year	2020
Owner/Manager	Police Dept., Admin.
Status & Barriers	2025 - In progress: no measurable progress due to lack of funding

Next

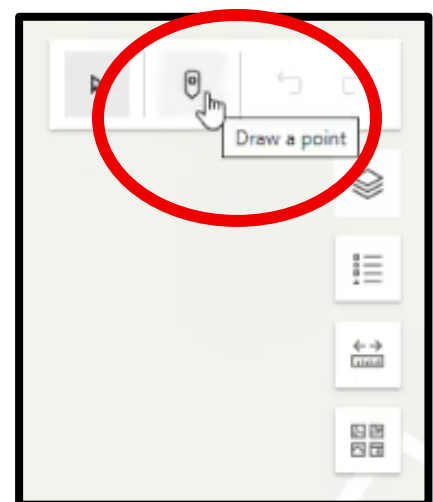
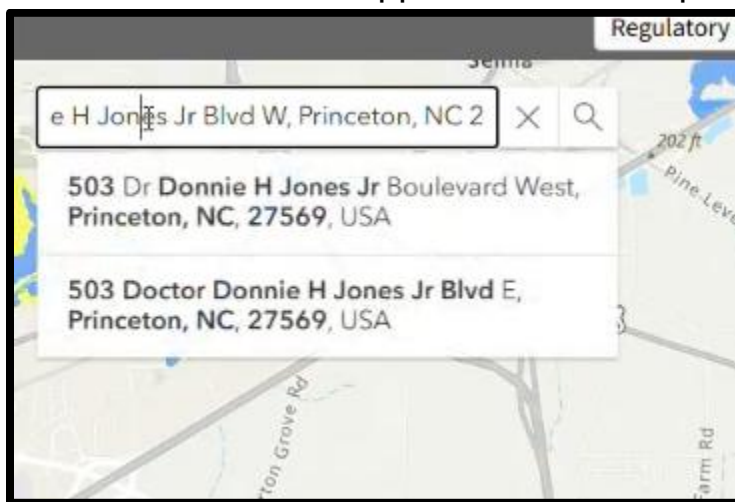
Resiliency Action Type v

Select

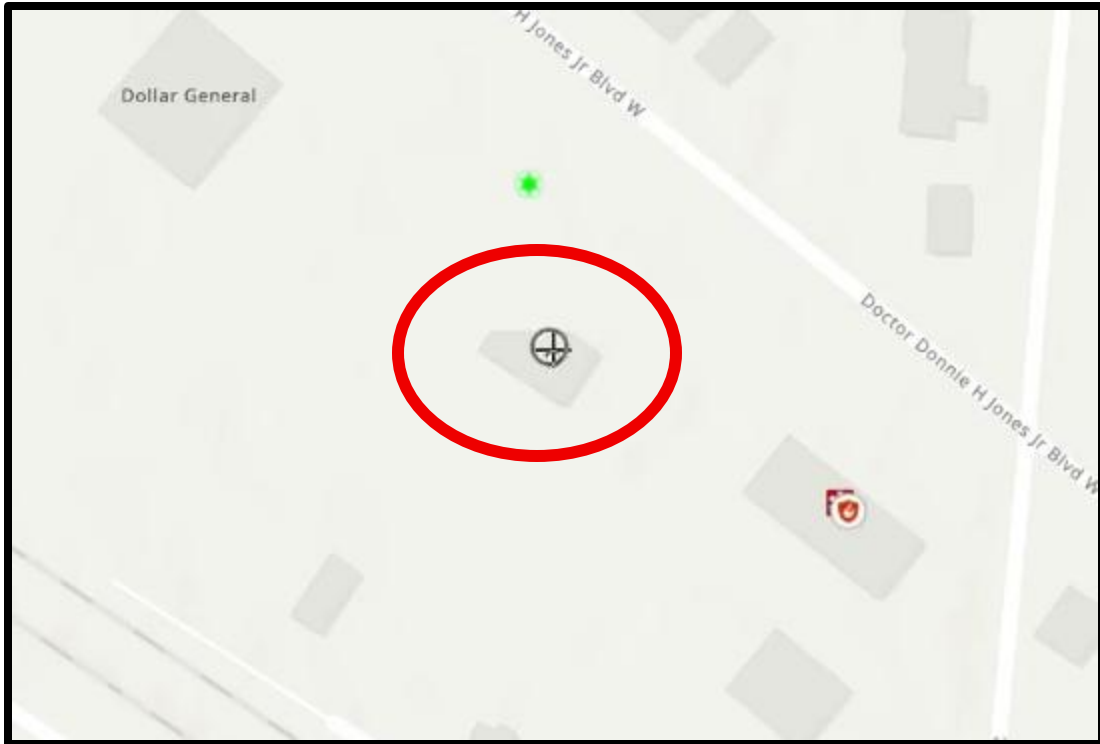
- Once you select the action you want to add to your action plan and select next, you will go through the same process as the “create your own action” workflow which is discussed in greater detail in the next section of the tutorial.

- To proceed with adding our resiliency action, you need to select the action category and type. In this case, your action will fall under the infrastructure and control category, specifically the critical infrastructure emergency services action type. Under “Select Critical Infrastructure Type”, select “Emergency Services”, then select “Yes” and “Next”.

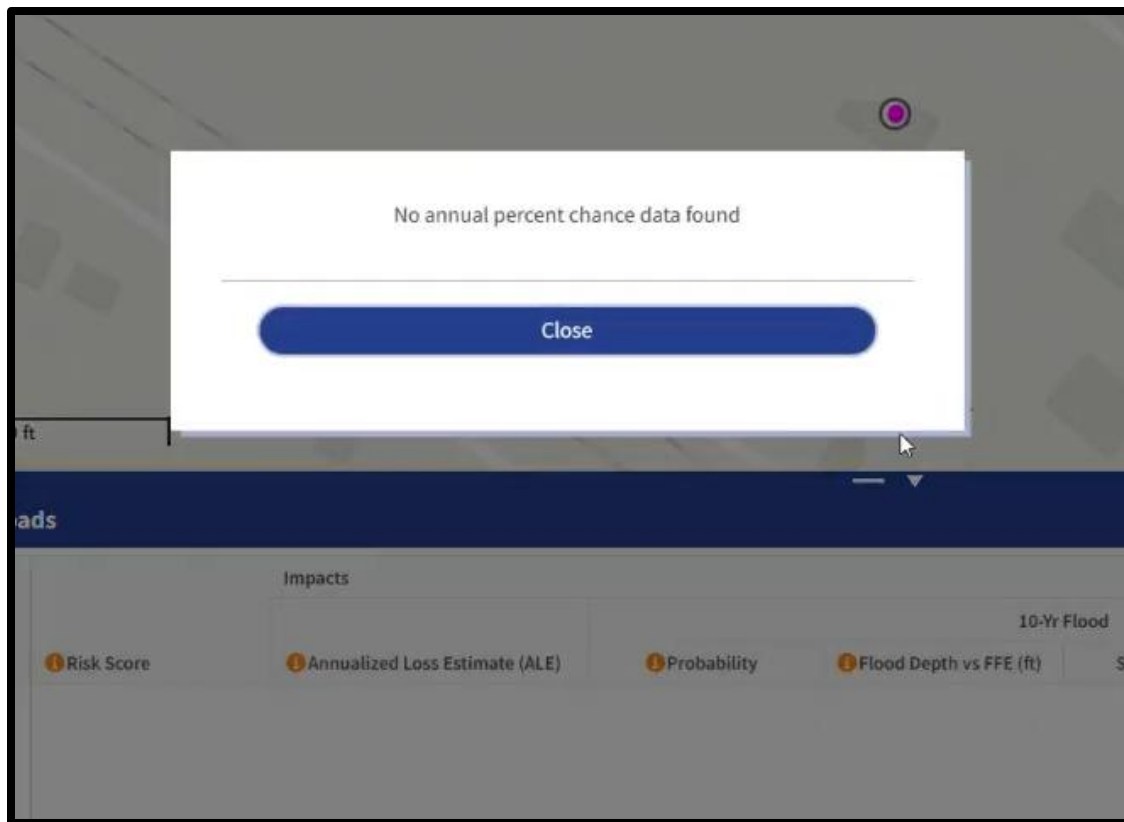
- You will draw your resiliency action location where you want to implement your resiliency action. You can search for the address of the location in the upper left of the map.



- After selecting the correct address, the map will zoom in to the location. You can use the “draw a point” tool and click the building.

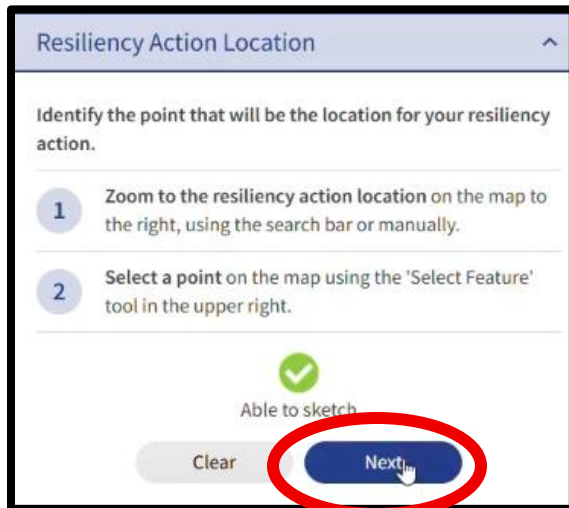


- The tool will show you a table of impacted buildings, impacted roads, and a risk summary. The tool will calculate the 30-year annual percent chance for a resiliency action location, which is the likelihood expressed as a percentage that a given location will experience at least one flood event in 30 years based on the annual probability of flooding.



- In this case, our chosen structure, Princeton Town Hall, is not expected to experience flooding over 30 years, which is what we wanted, as our action proposes the structure be used for emergency operation and communication purposes.

- Next, you can complete the remaining prompts and then proceed to the funding profile, which is discussed in a later section of the tutorial. You will then add your resiliency action to the action plan by clicking add action to plan.



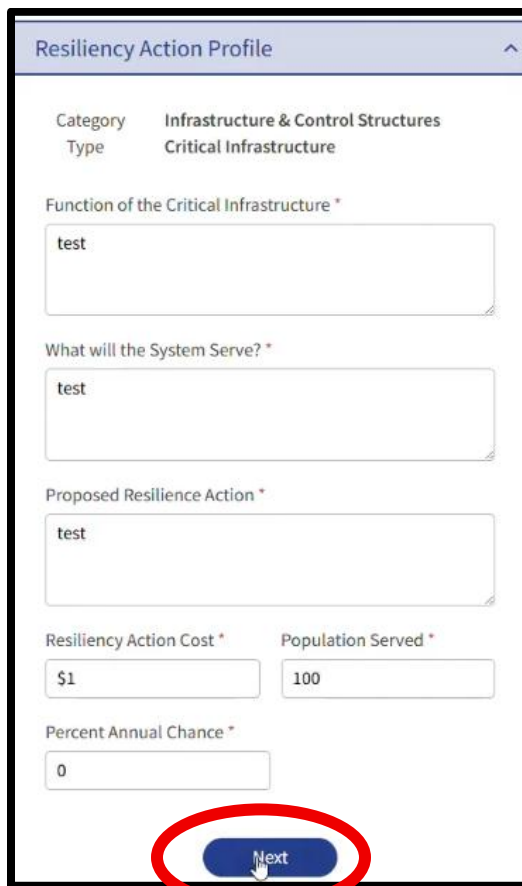
Resiliency Action Location

Identify the point that will be the location for your resiliency action.

- 1 Zoom to the resiliency action location on the map to the right, using the search bar or manually.
- 2 Select a point on the map using the 'Select Feature' tool in the upper right.

A green checkmark icon is displayed above the text "Able to sketch".

Clear Next



Resiliency Action Profile

Category Infrastructure & Control Structures
Type Critical Infrastructure

Function of the Critical Infrastructure *

test

What will the System Serve? *

test

Proposed Resilience Action *

test

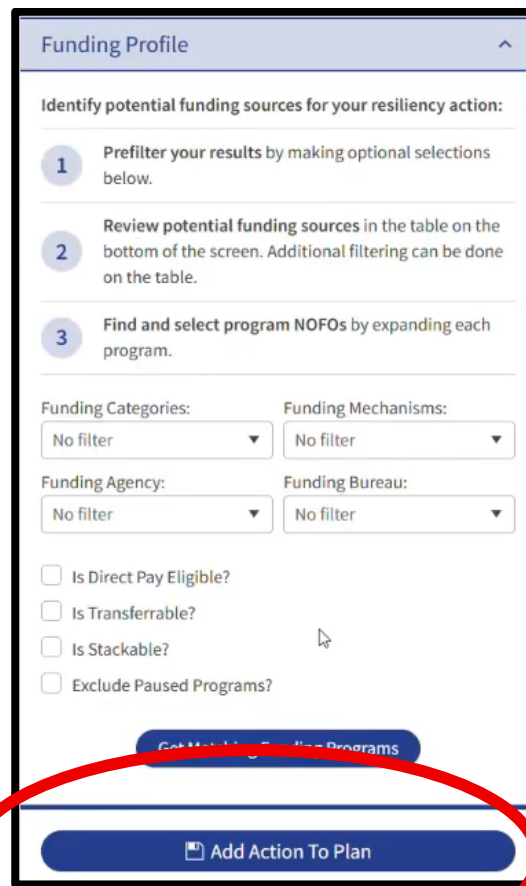
Resiliency Action Cost * Population Served *

\$1 100

Percent Annual Chance *

0

Next



Funding Profile

Identify potential funding sources for your resiliency action:

- 1 Prefilter your results by making optional selections below.
- 2 Review potential funding sources in the table on the bottom of the screen. Additional filtering can be done on the table.
- 3 Find and select program NOFOs by expanding each program.

Funding Categories: No filter
Funding Mechanisms: No filter
Funding Agency: No filter
Funding Bureau: No filter

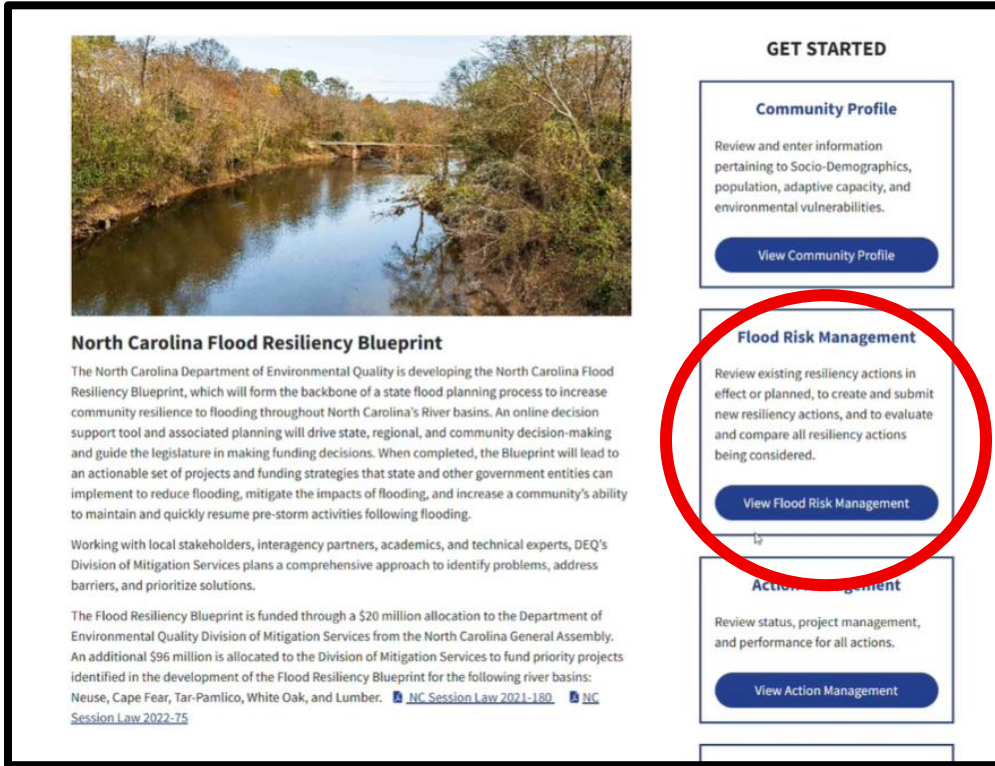
☐ Is Direct Pay Eligible?
☐ Is Transferrable?
☐ Is Stackable?
☐ Exclude Paused Programs?

Get More Funding Programs

Add Action To Plan

5.3 Create Your Own Action

- Start by selecting “Flood Risk Management” from the welcome page.



North Carolina Flood Resiliency Blueprint

The North Carolina Department of Environmental Quality is developing the North Carolina Flood Resiliency Blueprint, which will form the backbone of a state flood planning process to increase community resilience to flooding throughout North Carolina's River basins. An online decision support tool and associated planning will drive state, regional, and community decision-making and guide the legislature in making funding decisions. When completed, the Blueprint will lead to an actionable set of projects and funding strategies that state and other government entities can implement to reduce flooding, mitigate the impacts of flooding, and increase a community's ability to maintain and quickly resume pre-storm activities following flooding.

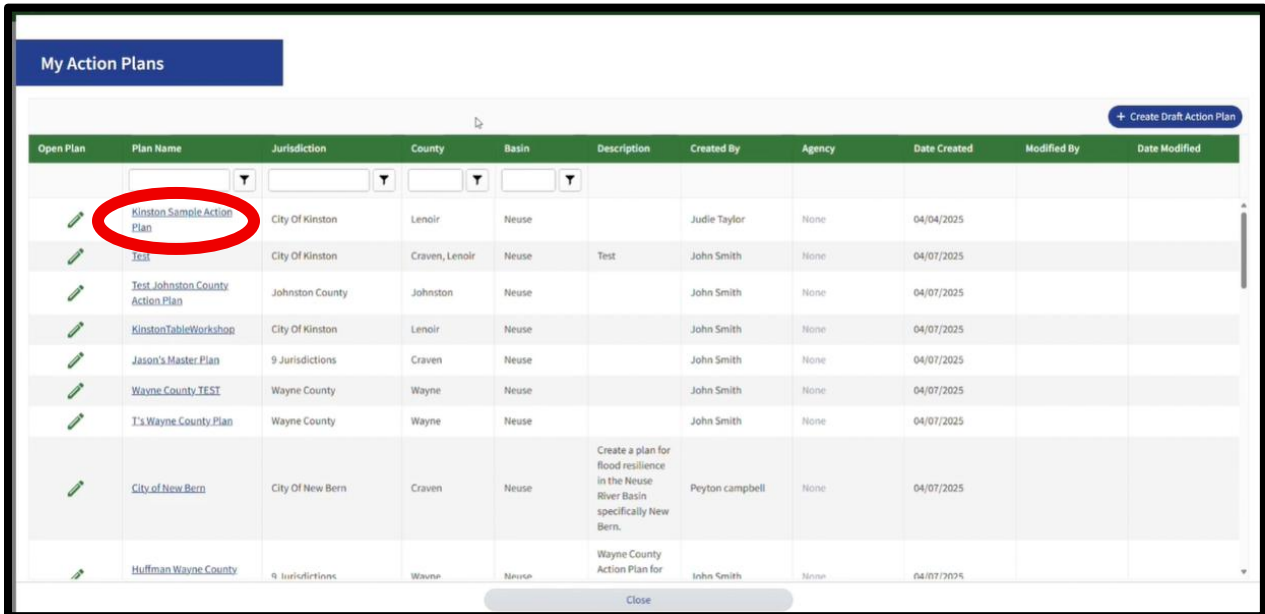
Working with local stakeholders, interagency partners, academics, and technical experts, DEQ's Division of Mitigation Services plans a comprehensive approach to identify problems, address barriers, and prioritize solutions.

The Flood Resiliency Blueprint is funded through a \$20 million allocation to the Department of Environmental Quality Division of Mitigation Services from the North Carolina General Assembly. An additional \$96 million is allocated to the Division of Mitigation Services to fund priority projects identified in the development of the Flood Resiliency Blueprint for the following river basins: Neuse, Cape Fear, Tar-Pamlico, White Oak, and Lumber. [NC Session Law 2021-180](#) [NC Session Law 2022-75](#)

GET STARTED

- Community Profile**
Review and enter information pertaining to Socio-Demographics, population, adaptive capacity, and environmental vulnerabilities.
[View Community Profile](#)
- Flood Risk Management**
Review existing resiliency actions in effect or planned, to create and submit new resiliency actions, and to evaluate and compare all resiliency actions being considered.
[View Flood Risk Management](#)
- Action Management**
Review status, project management, and performance for all actions.
[View Action Management](#)

- Select a Resiliency Action Plan

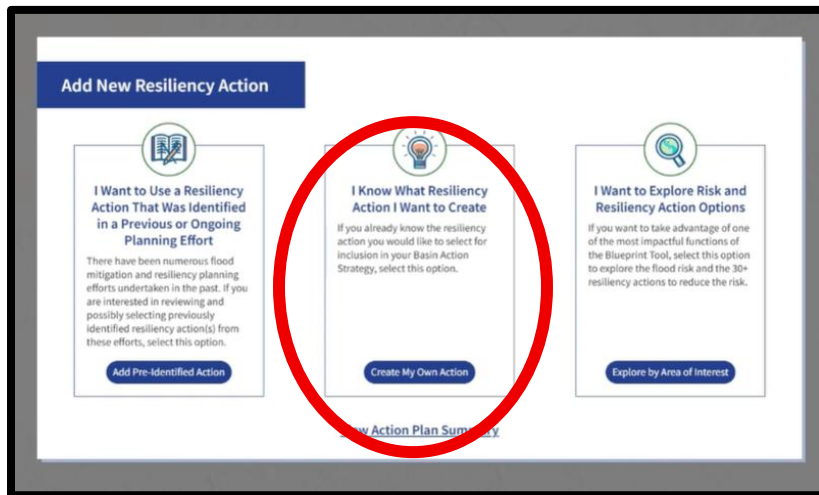


My Action Plans [+ Create Draft Action Plan](#)

Open Plan	Plan Name	Jurisdiction	County	Basin	Description	Created By	Agency	Date Created	Modified By	Date Modified
	Kinston Sample Action Plan	City Of Kinston	Lenoir	Neuse		Judie Taylor	None	04/04/2025		
	Test	City Of Kinston	Craven, Lenoir	Neuse	Test	John Smith	None	04/07/2025		
	Test Johnston County Action Plan	Johnston County	Johnston	Neuse		John Smith	None	04/07/2025		
	KinstonTableWorkshop	City Of Kinston	Lenoir	Neuse		John Smith	None	04/07/2025		
	Jason's Master Plan	9 Jurisdictions	Craven	Neuse		John Smith	None	04/07/2025		
	Wayne County TEST	Wayne County	Wayne	Neuse		John Smith	None	04/07/2025		
	T's Wayne County Plan	Wayne County	Wayne	Neuse		John Smith	None	04/07/2025		
	City of New Bern	City Of New Bern	Craven	Neuse	Create a plan for flood resilience in the Neuse River Basin specifically New Bern.	Peyton campbell	None	04/07/2025		
	Huffman Wayne County	9 Jurisdictions	Wayne	Neuse	Wayne County Action Plan for	John Smith	None	04/07/2025		

Close

- Select “I Know What Resiliency Action I Want to Create.”



- When creating your own action, there are multiple different action types and action categories to select from. This includes: building level mitigations, channel modifications, policy and planning, nature-based solutions, infrastructure and control structures, or other.

- Each of these categories has multiple different resiliency action types.
- For channel modifications, the choices for resiliency action type are channel dredging, widening, diversion or debris removal.

Resiliency Action Type ^

What type of resiliency action you want to create? (Leave blank if unknown)

Select Resiliency Action Category

Channel Modification ▼

Select Resiliency Action Type

▼

Channel Dredging, Widening, Diversion

Debris Removal

Yes No

- Policy and planning categories have the following resiliency action types: advanced regulations, multi-use floodplains and stormwater, water quality and floodplain regulations.

Select Resiliency Action Category

Policy & Planning ▼

Select Resiliency Action Type

▼

Advanced Regulations (Enhanced Zoning)

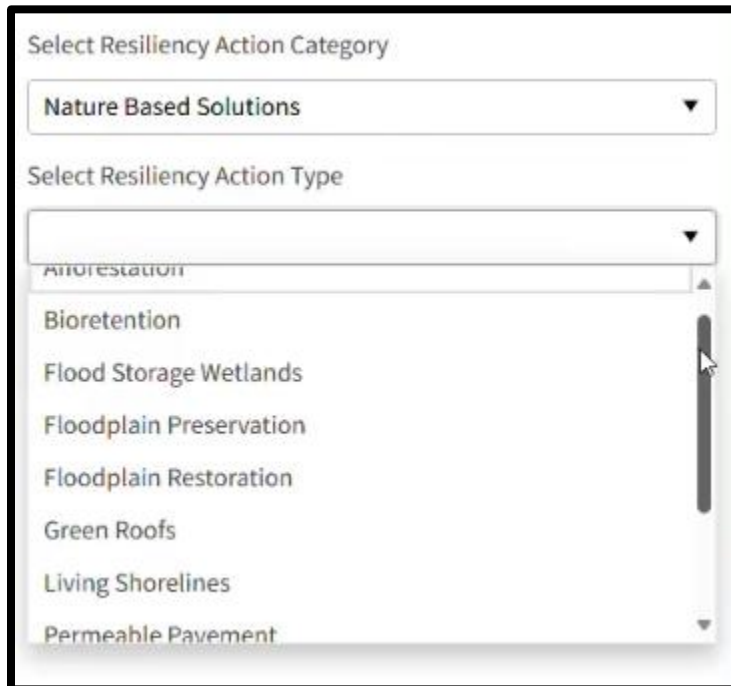
Advanced Regulations (GIS Capacity Building)

Advanced Regulations (Land Use and Impervious Surface Restrictions)

Multi-Use Floodplains

Stormwater, Water Quality, Floodplain Regulations

- Nature-based solutions have the following resiliency action types: afforestation, bio retention, flood storage, wetlands, floodplain preservation, floodplain restoration, green roofs, living shorelines, permeable pavement, rain gardens, riparian buffers, and water farming.



Select Resiliency Action Category

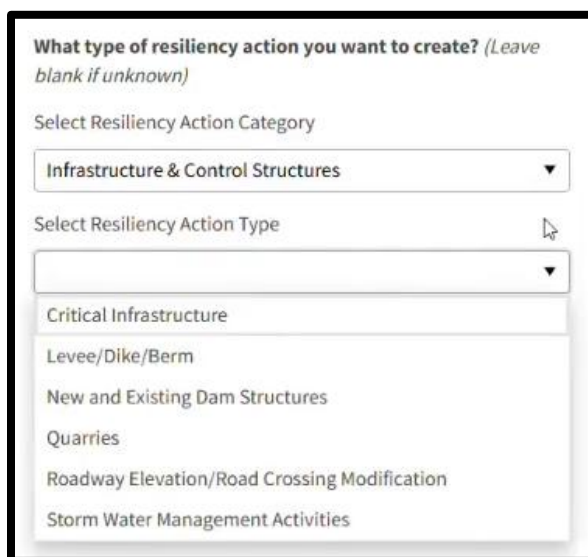
Nature Based Solutions ▼

Select Resiliency Action Type

▼

- Afforestation
- Bioretention
- Flood Storage Wetlands
- Floodplain Preservation
- Floodplain Restoration
- Green Roofs
- Living Shorelines
- Permeable Pavement

- For infrastructure and control structures, we have critical infrastructure, levies, dikes and BMS, new and existing dam structures, quarries, roadway elevation and road crossing modification and storm water management activities.



What type of resiliency action you want to create? (Leave blank if unknown)

Select Resiliency Action Category

Infrastructure & Control Structures ▼

Select Resiliency Action Type

▼

- Critical Infrastructure
- Levee/Dike/Berm
- New and Existing Dam Structures
- Quarries
- Roadway Elevation/Road Crossing Modification
- Storm Water Management Activities

- For “other”, the resiliency action types are: beaver management, coastal building mitigation and coastal road elevation or modification.

What type of resiliency action you want to create? (Leave blank if unknown)

Select Resiliency Action Category

Other

Select Resiliency Action Type

Beaver Management

Coastal - Building Mitigation

Coastal - Road Elevation/Modification

- When adding a building level mitigation action, we will zoom into our area of impact and see which buildings are at risk of flooding impacts. By selecting no to the feasibility level study question, you can use the assess your risk tool to explore various building related risk layers.

Resiliency Action Type

What type of resiliency action you want to create? (Leave blank if unknown)

Select Resiliency Action Category

Building Level Mitigation

**Select a Building Mitigation Action from the Building Mitigation Actions table on the right after you have drawn your Area of Impact*

Has there been a feasibility level study for this resiliency action?

Yes No

Next

Assess Your Risk

Assess Your Risk

How do you want to assess your risk?

Explore on My Own View Suggestions

Select Impact Type

Building Flood Depth

Select Recurrence Interval

100-Year Flood

Select Area of Impact

- Identify an area of high risk and zoom into that area of interest. If we select an area of impact, the tool will identify the impacted buildings in the area along with specific building mitigation actions.

Assess Your Risk

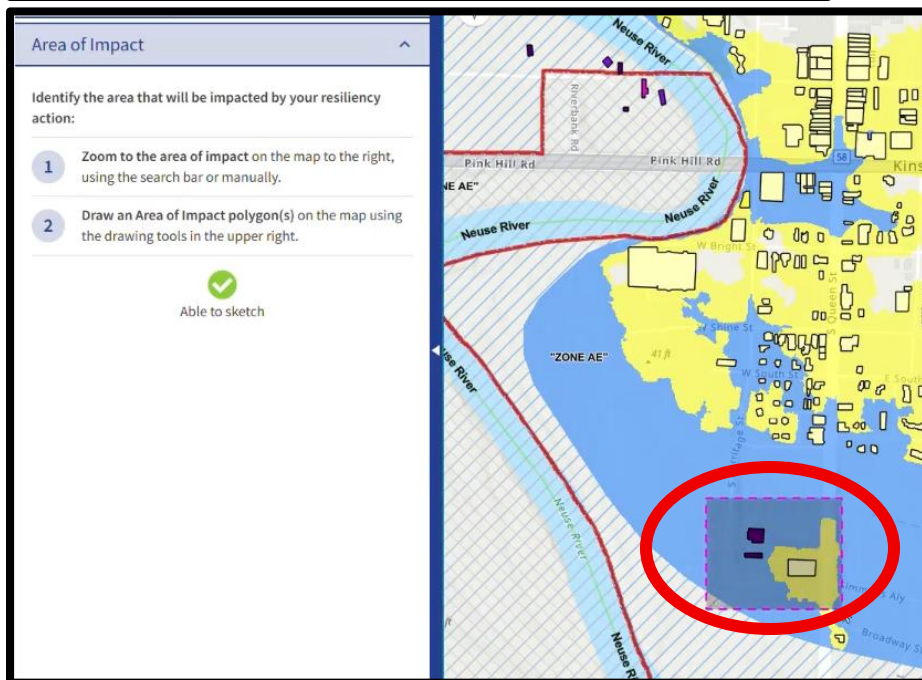
How do you want to assess your risk?

Explore on My Own View Suggestions

Select Impact Type
Building Flood Depth

Select Recurrence Interval
100-Year Flood

Select Area of Impact Select Area of Impact



Impacted Buildings		Impacted Roads	Risk	Building Mitigation Actions		
		?	Mitigation Type		Foot Height	Cost
+	☐		Relocation		-	
+	☐		Utility Elevation		-	
+	☐		Structural Elevation		2	
+	☐		Structural Elevation		4	
+	☐		Acquisition/Demolition		-	
+	☐		Structural Elevation		8	
+	☐		Mitigation Reconstruction		2	
+	☐		Mitigation Reconstruction		4	
+	☐		Mitigation Reconstruction		10	

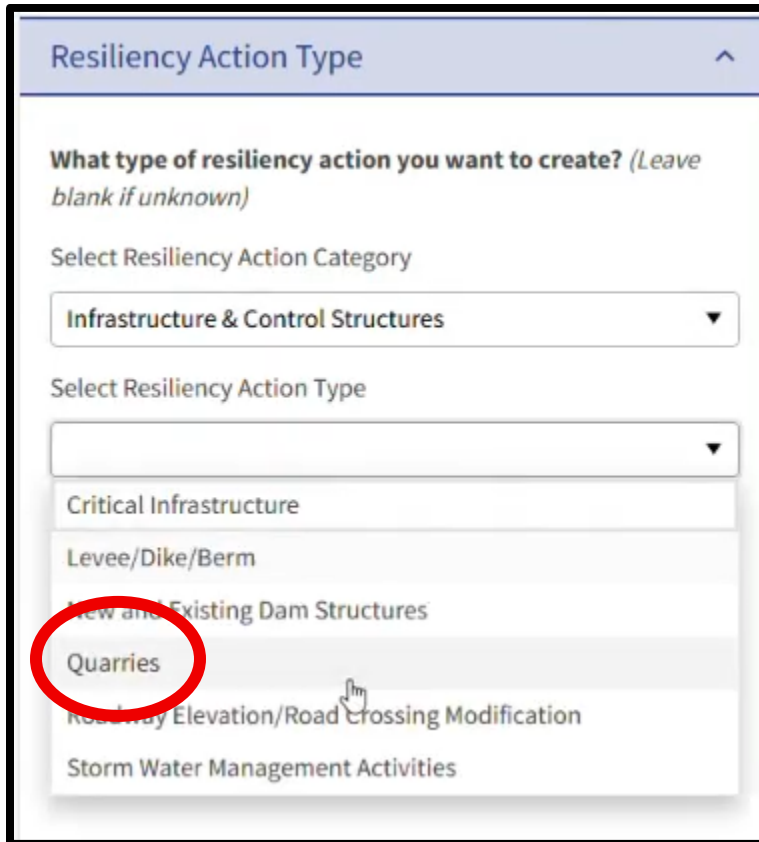
- By selecting the building mitigation actions tab, we can see the specific mitigation action types, costs, losses avoided, and cost effectiveness.

Building Mitigation Actions						
	Foot Height	Cost		Losses Avoided		Cost Effectiveness
	-		\$549,054		\$3,200,850	
	-		\$36,000		\$137,889	4.1
	2		\$443,680		\$912,242	2.2
	4		\$460,318		\$912,242	2.1
	-		\$2,606,621		\$5,106,987	2.1

- We can select building level mitigation actions by checking the box next to proposed actions within the building mitigation table.

Impacted Buildings		Impacted Roads	Risk	Building Mitigation	
		?	Mitigation Type		
+	☐		Utility Elevation		
+	☒		Relocation		
+	☐		Acquisition/Demolition		
+	☐		Structural Elevation		
+	☐		Structural Elevation		
+	☐		Structural Elevation		
+	☐		Mitigation Reconstruction		

- As another example, we will look at the quarries resiliency action.



Resiliency Action Type ^

What type of resiliency action you want to create? (Leave blank if unknown)

Select Resiliency Action Category

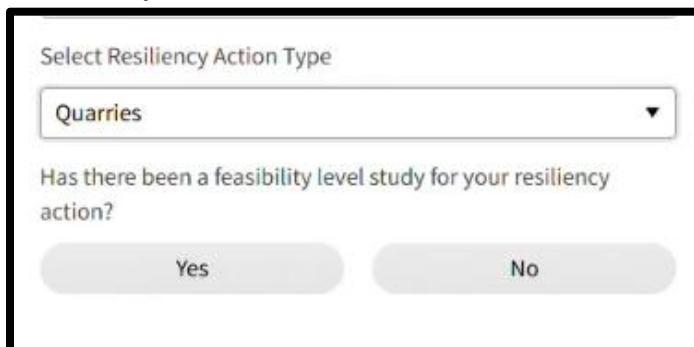
Infrastructure & Control Structures ▼

Select Resiliency Action Type

▼

- Critical Infrastructure
- Levee/Dike/Berm
- New and Existing Dam Structures
- Quarries**
- Roadway Elevation/Road Crossing Modification
- Storm Water Management Activities

- First, we'll start by answering whether there has been a feasibility level study, which is whether you have done a feasibility study to determine whether the action could be implemented in the area. If we have completed a study, the tool will allow us to select an area of impact.



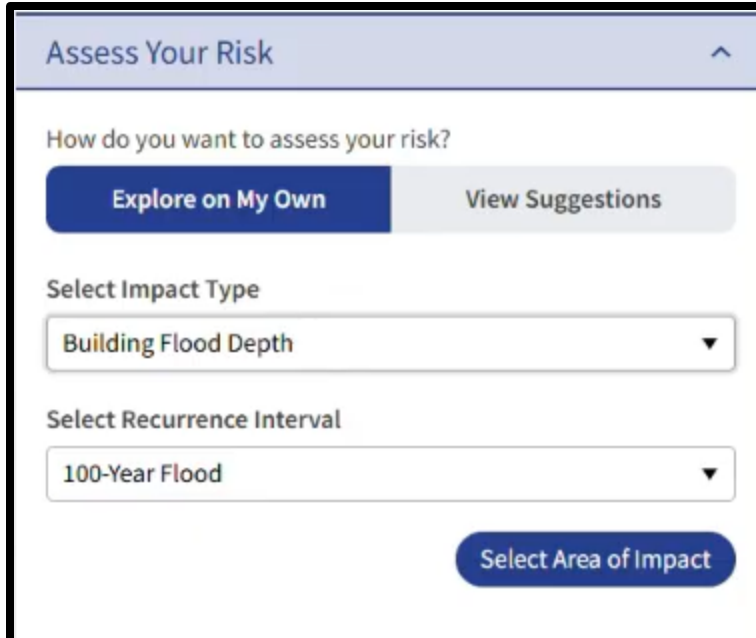
Select Resiliency Action Type

Quarries ▼

Has there been a feasibility level study for your resiliency action?

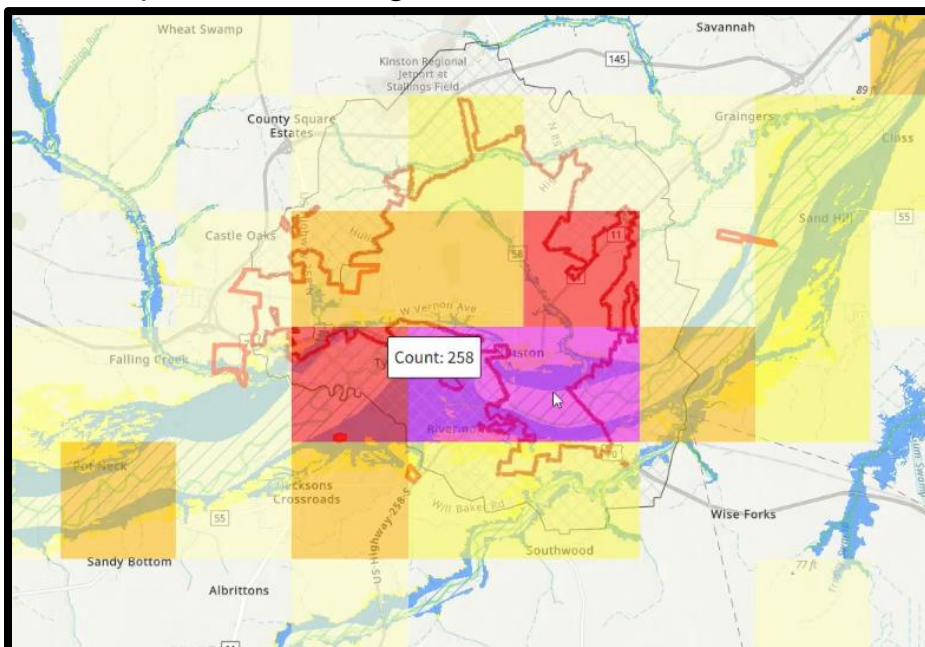
Yes No

- If we haven't completed a study, we can still proceed with adding the action to the action plan, but the tool will help with assessing your risk as demonstrated in the earlier building level mitigation action workflow.

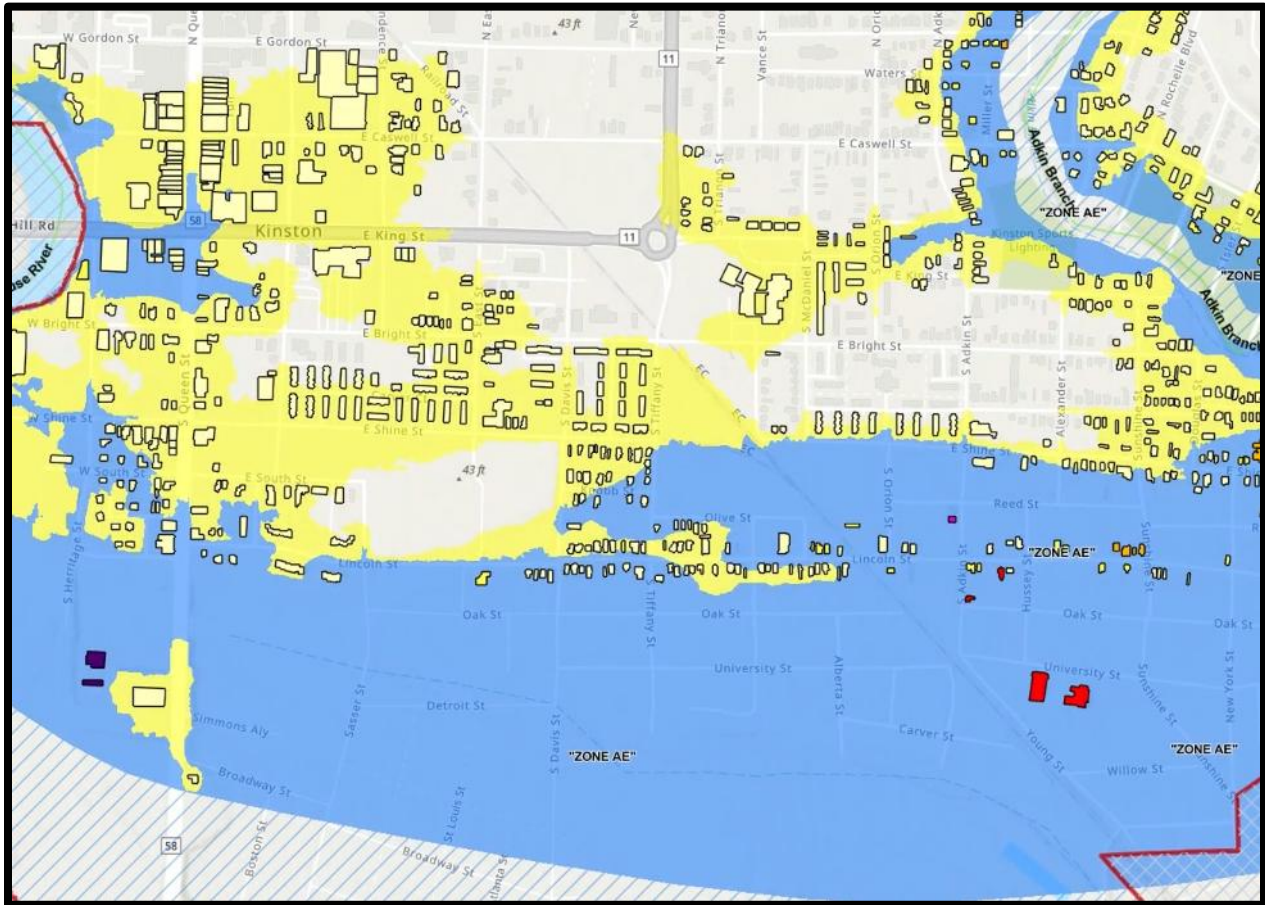


The screenshot shows a web interface titled "Assess Your Risk". Below the title, it asks "How do you want to assess your risk?" with two buttons: "Explore on My Own" (highlighted in blue) and "View Suggestions" (greyed out). Below this, there are two dropdown menus. The first is labeled "Select Impact Type" and has "Building Flood Depth" selected. The second is labeled "Select Recurrence Interval" and has "100-Year Flood" selected. At the bottom right, there is a blue button labeled "Select Area of Impact".

- Here we can see a heat map based on building flood depth for a 100-year flood event so that we can identify where buildings will likely experience damage.



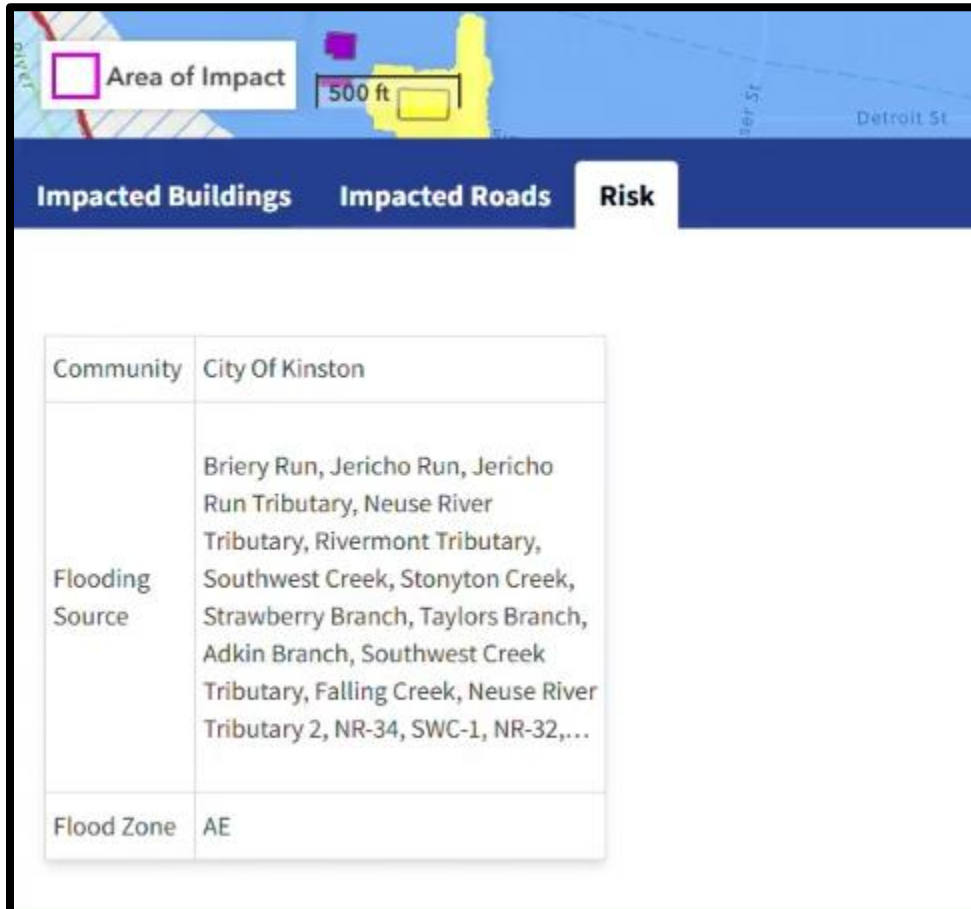
- If we hover over a cell, we can see the number of buildings within each cell that are impacted by flooding.
- To identify specific structure footprints which are symbolized using a color gradient for estimated flood depth, we will zoom into the jurisdictional level which can be done by selecting the plus button or zooming in with our scroll wheel.



- Based on the type of resiliency action, there could be both an area of impact and a resiliency action location. For this example, we'll select the area of impact using the drawing tools found in the upper right corner of the map.

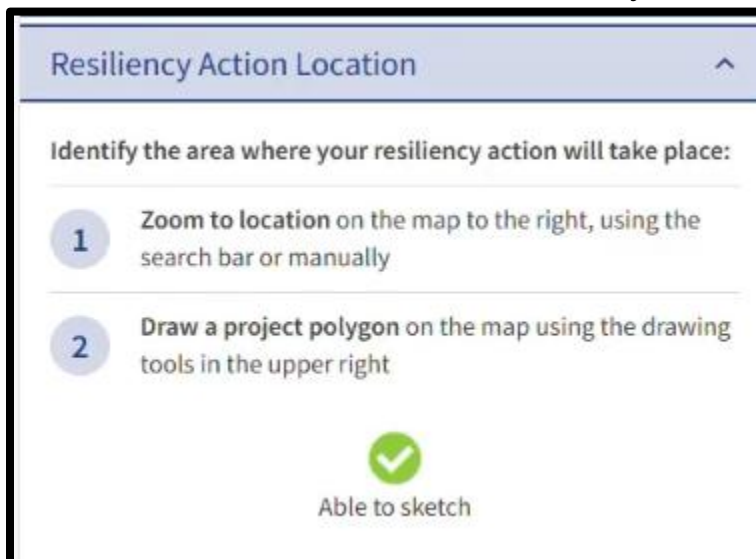


- By selecting an area of impact, we can review the impacted buildings and roads tables as well as a risk summary for the area.



	Community
	City Of Kinston
Flooding Source	Briery Run, Jericho Run, Jericho Run Tributary, Neuse River Tributary, Rivermont Tributary, Southwest Creek, Stonyton Creek, Strawberry Branch, Taylors Branch, Adkin Branch, Southwest Creek Tributary, Falling Creek, Neuse River Tributary 2, NR-34, SWC-1, NR-32,...
Flood Zone	AE

- Next, we will select our resiliency action location.



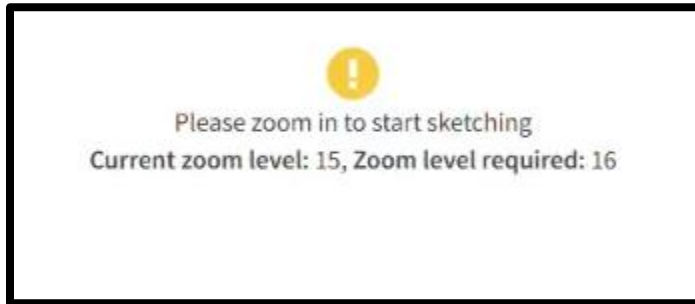
Resiliency Action Location

Identify the area where your resiliency action will take place:

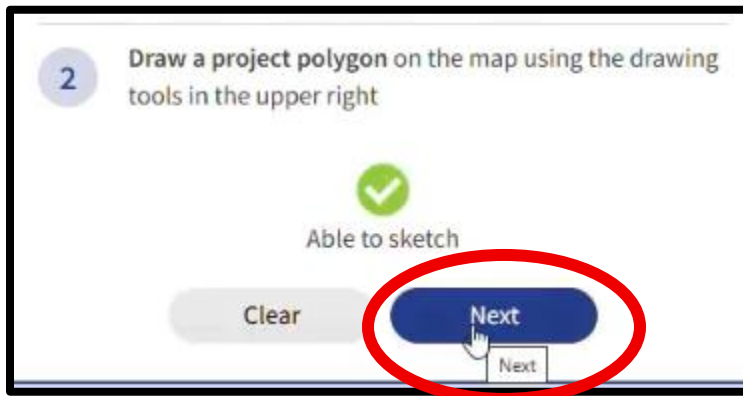
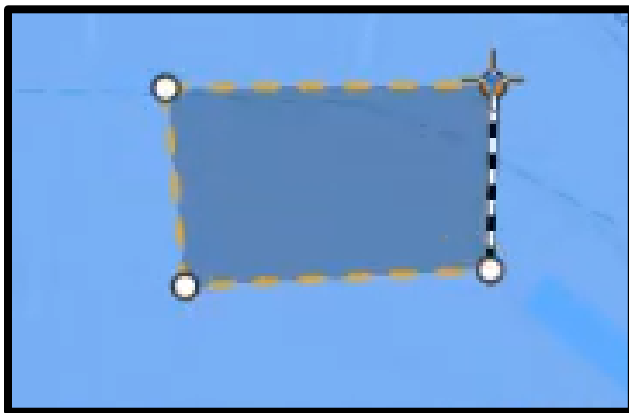
- 1 Zoom to location on the map to the right, using the search bar or manually
- 2 Draw a project polygon on the map using the drawing tools in the upper right

 Able to sketch

- Before drawing the location, the tool indicates your current zoom level and the required level to enable the drawing tools.



- This area represents the approximate site location and general size of the proposed Corey resiliency action that will affect the area of impact.



- Now we will fill in the details about the resiliency action.

Resiliency Action Profile

Category

Infrastructure & Control Structures

Type

Quarries

General description of the action: *

Narrative of impacts (before and after): *

Storage volume (ac-ft)

Resiliency Action Cost *

Losses Avoided *

Cost Effectiveness

Stage of Action *

Add Action To Plan

- These questions will be specific to the resiliency action type. Some of these details will be user entered, but some will be calculated automatically by the tool.

- For this example, we will input a 125 acre feet storage volume with a cost of \$250,000 and \$560,000 of losses avoided. The application will then calculate the cost effectiveness score. We then indicate what stage of implementation the action is in and indicate whether the area of impact is in an underserved area.

Text

Narrative of impacts (before and after): *

Text

Storage volume (ac-ft)

125.00

Resiliency Action Cost *

\$250,000

Losses Avoided *

\$560,000

Cost Effectiveness

2.2

Stage of Action *

Feasibility

☐ Underserved area

Next

Add Action To Plan

- Then we will add our action to the action plan.

5.4 Searching and Applying for Potential Funding Sources

The screenshot displays the 'Flood Risk Management' section of the 'Kinston Sample Action Plan'. The 'Funding Profile' panel on the left is highlighted with a red circle. It contains the following elements:

- Identify potential funding sources for your resiliency action:**
 1. Prefilter your results by making optional selections below.
 2. Review potential funding sources in the table on the bottom of the screen. Additional filtering can be done on the table.
 3. Find and select program NOFOs by expanding each program.
- Funding Categories:** No filter
- Funding Mechanisms:** No filter
- Funding Agency:** No filter
- Funding Bureau:** No filter
- ☐ Is Direct Pay Eligible?
- ☐ Is Transferrable?
- ☐ Is Stackable?
- ☐ Exclude Paused Programs?
- Get Matching Funding Programs** (button)
- Add Action To Plan** (button)

The main area shows a map of Kinston, NC, with a 'Regulatory Floodplain' overlay. Below the map is a table titled 'Funding Programs' with columns: Program No., NOFOs Select..., Paused?, Score, Funding Program Name, Funding Categories, Funding Mechanisms, Funding Agency, Funding Bureau, Recipient Type, and Sub-Recipient. The table currently shows 0 NOFOs selected.

This is a close-up of the 'Funding Profile' panel from the previous screenshot. It details the filtering options and the 'Get Matching Funding Programs' button.

Funding Profile

Identify potential funding sources for your resiliency action:

1. Prefilter your results by making optional selections below.
2. Review potential funding sources in the table on the bottom of the screen. Additional filtering can be done on the table.
3. Find and select program NOFOs by expanding each program.

Funding Categories: No filter

Funding Mechanisms: No filter

Funding Agency: No filter

Funding Bureau: No filter

☐ Is Direct Pay Eligible?

☐ Is Transferrable?

☐ Is Stackable?

☐ Exclude Paused Programs?

Get Matching Funding Programs

Add Action To Plan

Once we have finished a resiliency action profile, we can search the funding sources that match the potential funding sources to the resilience action.

- The first thing that we can do to identify potential funding sources is prefilter our results. This is optional, but can help the user get more accurate funding matches.

Identify potential funding sources for your resiliency action:

- 1 Prefilter your results by making optional selections below.
- 2 Review potential funding sources in the table on the bottom of the screen. Additional filtering can be done on the table.
- 3 Find and select program NOFOs by expanding each program.

Funding Categories: No filter

Funding Mechanisms: No filter

Funding Bureau: No filter

Ports and Waterways

Public Transportation

Resilience

Roads, Bridges and Major Projects

Safety

Water

Get Matching Funding Programs

Funding Categories:

Water X

Resilience X X

- We will start by selecting a funding category. In this case, we are using a resiliency action that we know is a water related project. So we can select “water” and “resilience” as funding categories.

- In the funding mechanisms filter, we can filter by specific grant types. We can also filter by funding agency or filter by funding bureau.

Identify potential funding sources for your resiliency action:

- 1 Prefilter your results by making optional selections below.
- 2 Review potential funding sources in the table on the bottom of the screen. Additional filtering can be done on the table.
- 3 Find and select program NOFOs by expanding each program.

Funding Categories: Water ☒ Resilience ☒

Funding Mechanisms: No filter

Funding Agency: No filter

Is Direct Pay Eligible? ☐ Is Transferrable? ☐ Is Stackable? ☐ Exclude Paused Programs? ☐

Get Matching Funding Programs

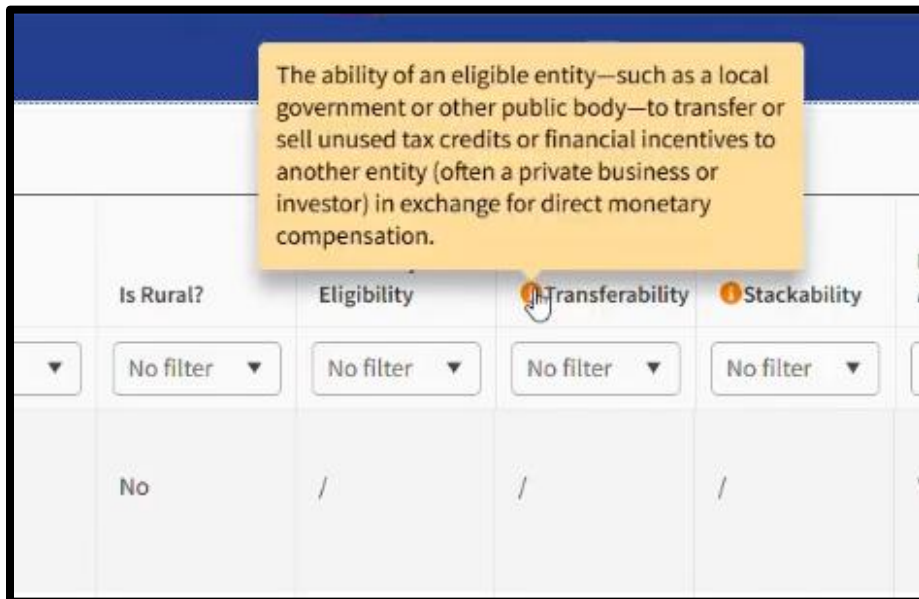
- We can also answer these questions about whether the funding source is direct pay eligible, stackable or transferable. Once we select “Get Matching Funding Programs”, the programs that the tool has matched will be listed on the right in the funding programs tab.

Program No.	# NOFOs Select...	Paused?	Score	Funding Program Name	Funding Categories	Funding Mechanisms	Funding Agency	Funding Bureau	Recipient Type	Sub-Recipient
+	WH_188.01	0	No	76	Cybersecurity for the Energy Sector Research, Development, and Demonstration Program	Resilience	Contract; Cooperative Agreement; Other; Competitive Grant	Energy	EPA	For-profit entity; Research Institute; Utilities; Educational agency/institution; non-profit; State; Tribal gov./org.; US Territory; public agency/authority; Local government; County
+	WH_252.01	0	No	75	Pollution Prevention Grants	Resilience	Competitive Grant	EPA	Educational agency/institution; State; Tribal gov./org.; US Territory; Hospital/healthcare	

- Every option matched by the tool is listed here and sorted by the match score. If we continue scrolling down the table, we can see every funding source available based on the filters. As we start scrolling down the list, our match score goes down.
- At the top of the table, we have some information about what the score is based on. In this case, they're based on semantic similarity between the user selected action type and the funding program descriptions.

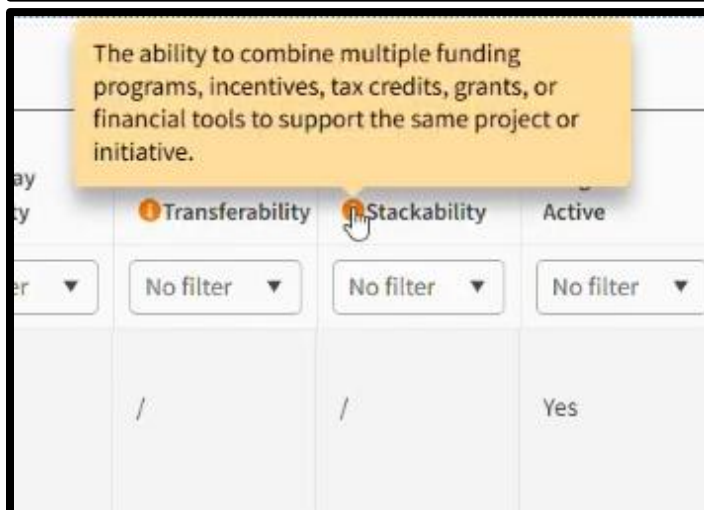
Impacted Buildings Impacted Roads Funding Programs					
OFF Show Selected 0 NO		Scores are based on the semantic similarity between the user-selected action type and the funding program's descriptions, and are for reference only.			
Program No.	# NOFOs Select...	Paused?	Score ↑	Funding Program Name	
		No filter ▼			
+ WH_272.02	0	No	55	State and Local Cybersecurity Grant Program: Tribal Cybersecurity Program (TCGP)	
+ WH_525.01	0	No	55	Conservation Reserve Program (CRP): Forest Management Incentive (FMI)	
+ WH_526.01	0	No	55	Wood Innovations Grant Program: Community Wood Energy and Wood Innovation	

- The scores are meant to be used for reference only. The transferability and stackability columns have a help tip which explains what transferability and stackability mean.



The ability of an eligible entity—such as a local government or other public body—to transfer or sell unused tax credits or financial incentives to another entity (often a private business or investor) in exchange for direct monetary compensation.

	Is Rural?	Eligibility	Transferability	Stackability
	No filter	No filter	No filter	No filter
	No	/	/	/



The ability to combine multiple funding programs, incentives, tax credits, grants, or financial tools to support the same project or initiative.

	Transferability	Stackability	Active
	No filter	No filter	No filter
	/	/	Yes

- We can also see more information about the specific funding source by expanding the details. Once we expand the NOFO, we can see the specific details about the funding source.

No filter				
+	W_524.01	0	No	72
+	WH_529.06	0	No	72
+	WH_529.07	0	No	72

Program No.	# NOFOs Select...	Paused?	Score ↓	Funding Program Name	Funding Categories	Funding Mechanisms	Funding Agency	Funding Bureau	Recipient Ty
		No filter		resilience	No filter	No filter	No filter	No filter	No filter

NOFOs:

	Fiscal Year	Deadlines	Funding Available	Award Size	Cost Share	URL	Notes
☐	FY23	NOFO Issued: 8/22/2023 Applications Due: 4/13/2149	\$150,000,000	0 to 50,000,000	0%	https://www.grants.gov/search-results-detail/34985...	

Forest Landowner Support: Assistance to Forest Landowners with <2,500 Acres of Forestland - Emerging Private Markets for Climate Mitigation and Forest Resilience

Key words:

Forest Service; Resilience; Climate

Description:

Section 23002(a)(3) of the Inflation Reduction Act provides funding for forest landowners who own less than 2,500 acres of forestland in emerging private markets to participate in forest resilience and climate mitigation. This program emphasizes shared learning, collective action, replicability, and ability to scale. The USDA Forest Service will leverage existing opportunities and organizational structures to support practitioners, provide professional development, and support a platform for information-sharing.

- This is also where we will select a funding opportunity. To select this funding opportunity, we will check the box.

Program No.	# NOFOs Select...	Paused?	Score	Funding Program Name	Funding Categories
		No filter			No filter
	Fiscal Year	Deadlines	Funding Available	Award Size	
☒	FY23	NOFO Issued: 8/22/2023 Applications Due: 4/13/2149	\$150,000,000	0 to 50,000,000	
Forest Landowner Support: Assistance to Forest Landowners with <2,500 Acres of Forestland - Emerging Private Markets for Climate Mitigation and Forest Resilience					
Key words: Forest Service; Resilience; Climate					
Description: Section 23002(a)(3) of the Inflation Reduction Act provides funding for forest landowners who own less than 2,500 acres of forestland in emerging private markets to participate in forest resilience and climate mitigation. This program emphasizes shared learning, collective action, replicability, and ability to scale. The USDA Forest Service will leverage existing opportunities and organizational structures to support practitioners, provide professional development, and support a platform for information-sharing.					
Eligible Uses: Technical assistance to support the participation of forest landowners who own less than 2,500 acres of forestland in emerging private markets. Proposals may incorporate some or all of the following elements: Promoting equitable opportunities for participation; Supporting the development of a forest landowner network; Supporting the development of a forest landowner network; Supporting the development of a forest landowner network.					

- We are able to pick as many funding opportunities as we like. After we select the funding sources we want, we can go ahead and add this action to our action plan.

The screenshot shows a web interface for filtering funding opportunities. It includes several filter sections: 'Funding Categories' with 'Water' and 'Resilience' selected; 'Funding Mechanisms' with 'No filter' selected; 'Funding Agency' with 'No filter' selected; and 'Funding Bureau' with 'No filter' selected. Below these are four unchecked checkboxes: 'Is Direct Pay Eligible?', 'Is Transferrable?', 'Is Stackable?', and 'Exclude Paused Programs?'. There are two main buttons: 'Get Matching Funding Programs' and 'Add Action To Plan'. The 'Add Action To Plan' button is highlighted with a red circle and contains a small icon of a document with a plus sign.

Funding Categories: Water X Resilience X

Funding Mechanisms: No filter

Funding Agency: No filter

Funding Bureau: No filter

☐ Is Direct Pay Eligible?

☐ Is Transferrable?

☐ Is Stackable?

☐ Exclude Paused Programs?

Get Matching Funding Programs

Add Action To Plan

5.5 Saving an Action

- After you've built your resiliency action, you're going to go ahead and click add to action plan.

Save Resiliency Action

1 General Details 2 Questions for Ranking 0 of 0 completed 3 Project Complexity 0 of 0 completed

Resiliency Action Name *

Add a name for your resiliency action

Resiliency Action Description

Add description...

Qualitative Information

Add any additional information not included in your action profile. This can include a description of key assumptions, barriers to implementation, action objectives, available resources, status of stakeholder collaboration efforts, etc.

Resiliency Action Details

Resiliency Action Category	Building Level Mitigation
Resiliency Action Type	Acquisition/Demolition
Losses Avoided	\$2,895,000
Cost Effectiveness	1.3
Buildings Impacted	6

☒ Save a Copy

Cancel Save Action

- The first thing we will do is give the resiliency action a name. Naming the action something unique is important. So, we want to make sure the action name is as descriptive as possible. But for the sake of the demonstration, we will call the action “Johnston County Test Action”.

Resiliency Action Name *

Johnston County Test Action

Resiliency Action Description

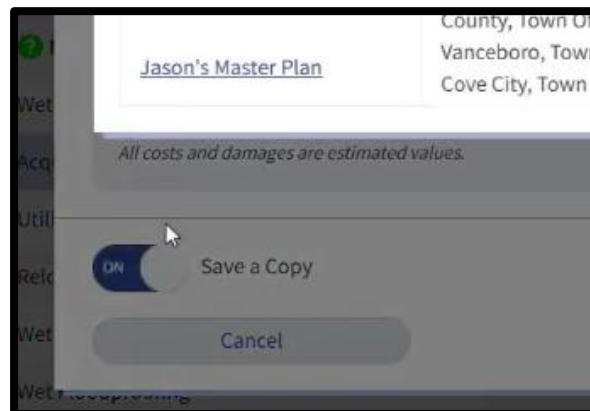
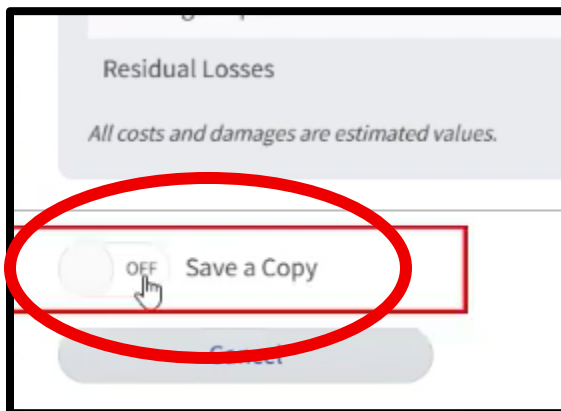
Add description...

- We will include details to describe our resilience action. We will also want any qualitative information about the resiliency action that wouldn't be included in the action profile. This includes key assumptions, barriers to implementation, action objectives, available resources, or status of stakeholder collaboration efforts. There could also be other qualitative benefits such as water quality or environmental benefits.



The screenshot shows a form titled "Resiliency Action Description". It contains two text input fields: "Description text" and "Qualitative text". The "Qualitative text" field is currently active, with a cursor visible at the end of the text.

- You can choose to copy your action to another draft action plan by selecting the slider at the bottom left of the save resiliency action window.



- The tool will prompt users to choose a target action plan where the resiliency action will be copied. Filters are available to help identify specific action plans, jurisdictions, counties, or basins.

Choose Target Action Plan

Action Plan	Jurisdiction	County	Basin
	Johnston		
Kinston Sample Action Plan	City Of Kinston	Lenoir	Neuse
Test	City Of Kinston	Craven, Lenoir	Neuse
Test Johnston County Action Plan	Johnston County	Johnston	Neuse

Action Plan	Jurisdiction	County	Basin	Description
	Johnston			
Upper Neuse Action Plan	Clayton, Town Of Apex, Town Of Kenly, Town Of Coats, Town Of Hillsborough, Town Of Of Princeton, Town Of Of Rolesville, Town Of Wilson's Mills, Town Of Of Stem, Town Of Fuquay-Varina,	Harnett, Durham, Wake, Granville, Orange, Franklin, Johnston, Person	Neuse	Flood affore

- To copy the action to the targeted action plan, simply click the name of the plan. You'll now see the target action plan name at the bottom right of the screen.

Target Action Plan: [Upper Neuse Action Plan](#)

[Save Copy](#) [Load Copy](#)

- Click **save copy** to complete the process.

- After defining our action, we will select save action and there will be a notification that the action is saved.

Save Resiliency Action

1

General Details

2

Questions for Ranking

0 of 15 completed

3

Project Complexity

0 of 17 completed

Your Resiliency Action Has Been Saved

You will now be prompted to answer a series of questions to help the Flood Resiliency Blueprint Tool create a **Ranking Score** and a **Project Complexity Score**.

These scores will be used to help the NC Department of Environmental Quality compare and make selections from submitted resiliency actions to include in the Basin Action Strategy.

The **Ranking Score** represents the value of the resiliency action, and is determined using several criteria including Risks and Vulnerability, Implementation, Project Benefits, and Added Value.

The **Project Complexity Score** represents takes into account level of difficulty and potential obstacles a project may face. The score is determined using attributes including Financial, Regulatory, Political, Social, Environmental, and Monitoring/Maintenance/Success Metrics.

- After you click next, the tool will give the questions for ranking.

Save Resiliency Action

1

General Details

2

Questions for Ranking

0 of 15 completed

3

Project Complexity

0 of 17 completed

- ▼ Risks and Vulnerability
 - ✓ Life/Safety Risk Score
 - ✓ Direct Damages Avoided
 - ✓ Social Vulnerability
 - ✓ Regulatory Floodway
- ▶ Implementation
- ▶ Project Benefits
- ▶ Added Value

Life/Safety Risk Score

How many of the following potential threats to life and safety does the resiliency action resolve?

1. Located in, or mitigates risk in, an area with high velocity flood waters and/or with greater than 6 inches of flood waters?
2. Alleviates flooding on major roads (arterial routes)?
3. Resolves access or connectivity issues caused by flooding (ie communities cut off or isolated by flooding)?

☐ The project addresses all three of these threats

☐ The project addresses 2 of these threats

☐ The project addresses 1 of these threats

☐ The project does not address any of these threats

← BACK

NEXT →

Save & Close

- You can save the action without answering the ranking and complexity questions, but answering the ranking and complexity questions helps you decide which actions to submit to DEQ.
- The icons for each question will turn green when they are completed.

Regulatory Floodway

Additional risk is determined by the proximity of the property of a flood resiliency action to the regulatory floodway or coastal V zone intersecting its boundaries.

Is any part of the impacted area located in a regulatory floodway and/or coastal V zone?

☒ Located in a regulatory floodway and/or coastal V zone

☐ Not located in a regulatory floodway and/or coastal V zone

- We can also jump directly to the project complexity questions without answering the ranking questions.

Save Resiliency Action

General Details Questions for Ranking 4 of 15 completed **Project Complexity 0 of 17 completed**

Financial Burden

Will the proposed action financially burden the community if external funding is not secured?

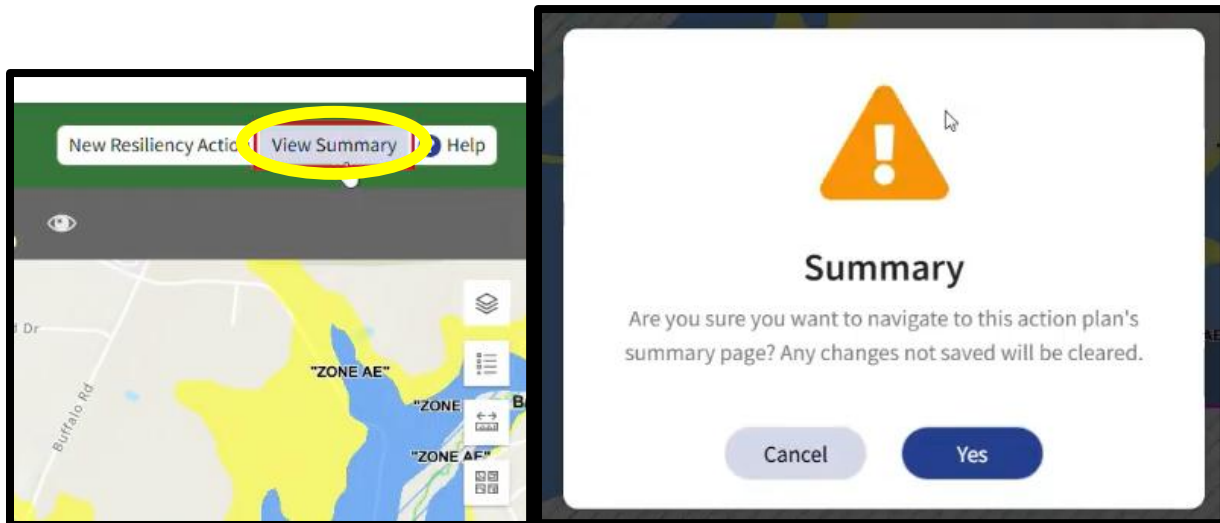
☐ Yes

☐ No

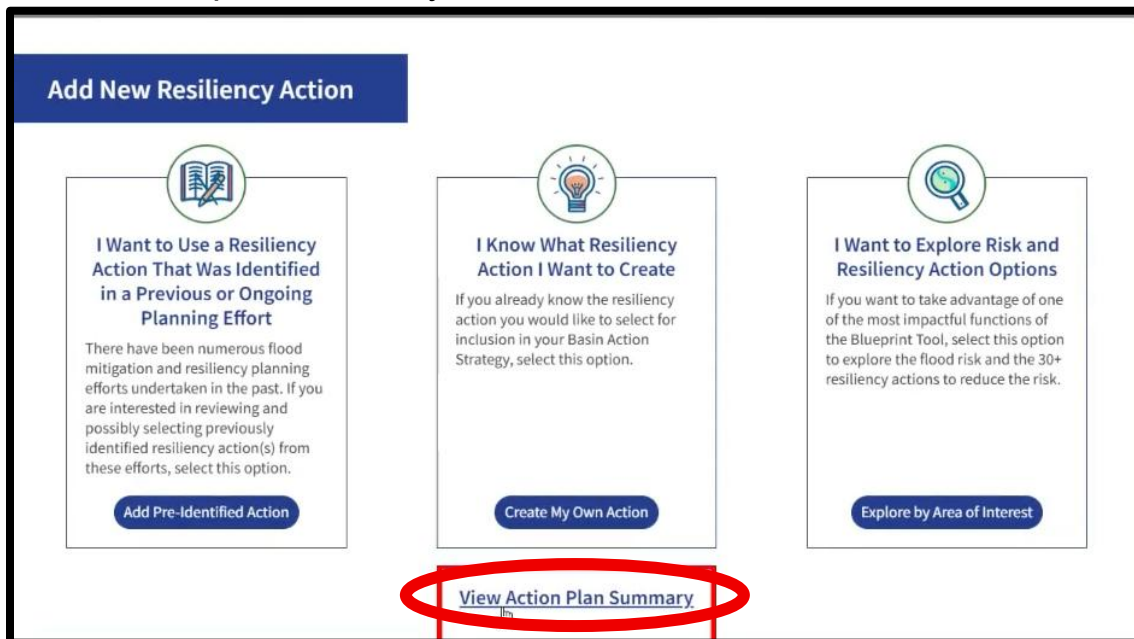
- Similar to the ranking questions, you should answer each question to the best of your ability. The project complexity questions assess the difficulty of implementing your action. Once all the questions are answered, you can save your answers and close the window.

5.6 Action Plan Summary

- First, we will select view summary in the top right corner after saving our action plan.



- The pop-up window shown when leaving our resiliency action plan details just indicates that any unsaved details are going to be deleted if we leave the page.
- Another way to access the action plan summary is from flood risk management's add new resiliency action window by clicking the view action plan summary button.



- Once we get to our action plan summary, we will see a summary map with points. Some points are numbered while others are not. The numbered points represent the ranked actions with the corresponding number indicating the ranking score.



- The action displayed as a 1 is the highest ranking score out of all the actions followed by 2, 3, and so on. All the resiliency actions outlined in the action plan are included in this map.

- At the bottom of the summary page is the action plan summary table. This is where all the resiliency actions included in this plan are listed. You can see that some actions have checks and some don't.

	Action Name	Action Report	Delegated Authority	Resiliency Action Category	Resiliency Action Type
☒	Elevate this building	View Report	None	Building Level Mitigation	Structural Elevation
☒	save the buildings	View Report	None	Building Level Mitigation	Acquisition/De...
☐	Johnston Sample Action	View Report	None	Building Level Mitigation	Wet Floodproofing
☐	Sample Action	View Report	None	Building Level Mitigation	Wet Floodproofing

- Checked actions are actions that will be included when you submit your action plan to DQ. Here we can review the actions and choose which actions we want to include.
- We can use the drop- down to filter the resiliency action category, resiliency action type, and the action status. Here we can see the name of the actions, the category action type, cost, number of funding sources, ranking score, risk and vulnerability score, implementation score, project benefits score, added value score, and project complexity score.

Resiliency Action Category	Resiliency Action Type	# of Funding Sources	Cost	Ranking Score
Building Level Mitigation	Structural Elevation	0	\$47,619	39

Risks and Vulnerability	Implementation	Project Benefits	Added Value	Project Complexity	Status
12	13	4	10	10.1	Included

- We can click on each actions ranking score to view more details on how each category and related criteria were evaluated.

Resiliency Action Score Details

Resiliency Action Name	Elevate this building
Resiliency Action Description	Raise it up
Action Category	Building Level Mitigation
Action Type	Structural Elevation
Location	Neuse Basin
Jurisdiction	Johnston County

Risks and Vulnerability	Implementation	Project Benefits	Added Value	
	Attribute	Base Score	Weighting Factor	Points
1	Risks and Vulnerability	12/39	5	12
1A	Life Safety Risk	2	1	2
1B	Direct Damages Avoided	3	1	3
1C	Social Vulnerability	5	1	5
1D	Regulatory Floodway or Coastal V Zone	2	1	2
1E	Future Risk	0	1	0
2	Implementation	13/39	4	13
3	Project Benefits	4/39	2	4
4	Added Value	10/39	5	10

- Similarly, we can click on the project complexity score to review how each category and question is scored.

Project Complexity Score Details

Resiliency Action Name	Elevate this building
Resiliency Action Description	Raise it up
Action Category	Building Level Mitigation
Action Type	Structural Elevation
Location	Neuse Basin
Jurisdiction	Johnston County

Financial

Regulatory

Political

Social

Environmental

Monitoring/Maintenance/Success Metrics

Category & Question	Scoring Criteria	Points
Financial	^	3
Will the proposed action financially burden the community if external funding is not secured?	i	1
Will the proposed action require sources of funding other than internal funds or those potentially acquired through NCDEQ?	i	1
Do the external funding sources have additional requirements that exceed the scope of what the NC Flood Resiliency Blueprint requires?	i	1
Can the proposed action be easily evaluated for its return on investment and added value to the community's overall flood resilience?	i	0
Regulatory	v	1.33
Political	v	0
Social	v	1.25
Environmental	v	2
Monitoring/Maintenance/Success Metrics	v	2.5

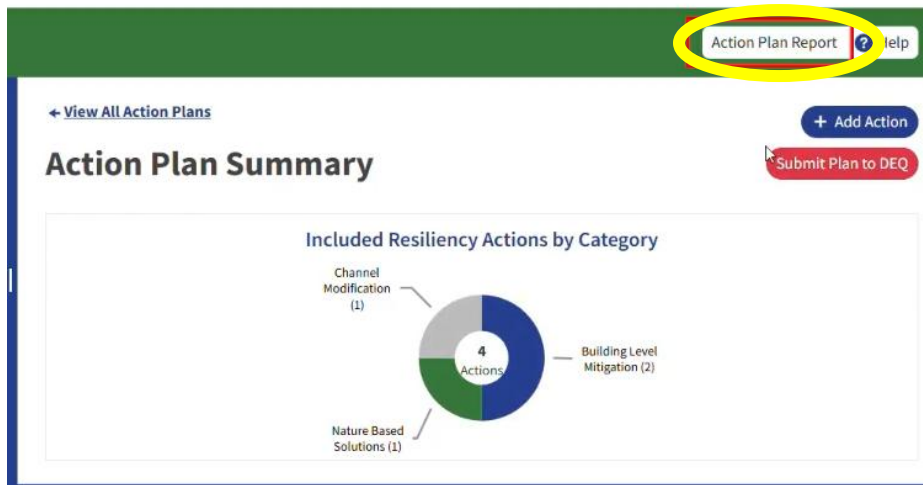
- We can delete actions from our action plan by selecting the trash can icon at the far right side of the table.

10.1	Included	
9.6	Included	
4	Planning	

- The tool will ask us to confirm that we want to permanently delete the action before an action is deleted.



- The action plan summary dashboard also has an overview of resiliency actions by category types to see how the actions are distributed by category.
- If we click action plan report, the user will get a report of the entire action plan with the included actions.



Save As PDF

DEQ NORTH CAROLINA Flood Resiliency BLUEPRINT

Date Created: 7/25/2025

Test Johnston County Action Plan

Action Plan Details

Action Plan Name	Test Johnston County Action Plan
Jurisdictions	Johnston County
Counties	Johnston
Basin	Neuse
Created By	John Smith
Date Created	Apr 7, 2025

Included Resiliency Actions

Name	Category	Type	Cost	Ranking	Project Complexity	Funding Sources	Status
Elevate this building	Building Level Mitigation	Structural Elevation	\$47,619	39	10.1	0	
save the buildings	Building Level Mitigation	Acquisition/Demolition	\$1,540,262	29	9.6	0	
Nature Based	Nature Based Solutions	Permeable Pavement	\$2,311,036		9.1	0	
Channel Modification	Channel Modification	Channel Dredging, Widening, Diversion	\$0			0	

Elevate this building

Structural Elevation involves raising the first-floor elevation of buildings or critical infrastructure above potential flood levels to reduce the risk of flood damage. This is typically achieved by building structures onto elevated foundations, stilts, or pilings, ensuring

- Only the actions that are checked will be included in the report. The action plan report provides details of the action plan and the specific actions included.
- Underneath the details, a report is provided for each resiliency action detailing the proposed action.

Action Name	Action Report	Delegated Authority	Resiliency Action Category
☒ Elevate this building	View Report	None	Building Level Mitigation
☒ save the buildings	View Report	None	Building Level Mitigation
☐ Johnston Sample Action	View Report	None	Building Level Mitigation

Save As PDF

Date Created: 7/25/2025

Elevate this building

Structural Elevation Resiliency Action Profile

Structural Elevation involves raising the first-floor elevation of buildings or critical infrastructure above potential flood levels to reduce the risk of flood damage. This is typically achieved by lifting structures onto elevated foundations, stilts, or pilings, ensuring that living spaces and vital components are above the anticipated floodplain.

Basic Information

Resiliency Action Name	Elevate this building
Jurisdictions	Johnston County
Counties	Johnston
Basin	Neuse
Resiliency Action Description	Raise it up
Losses Avoided	\$72,263
Cost Effectiveness	1.6
Buildings Impacted	1
Residual Losses	\$3,803

Building Mitigation Actions

Mitigation Type	Foot Height	Cost	Losses Avoided	Cost Effectiveness
— Structural Elevation	8	\$47,619	\$72,263	1.6

Building ID	Useful Life	Foot Height	Cost	Losses Avoided	Cost Effectiveness
3719154938	30	8	\$47,619	\$72,263	1.6

- We can select save as PDF and the browser will download the PDF normally into a cohesive report.



5.7 Submitting Your Action Plan to DEQ

- From the action plan summary, you will have selected all the resiliency actions that you want to include in your action plan when you submit it to DEQ.

North Carolina Flood Resiliency Blueprint

Flood Risk Management

Action Plan Summary

Included Resiliency Actions by Category

4 Actions

Channel Modification (2)

Building Level Mitigation (2)

Nature Based Solutions (0)

Action Name	Action Report	Delegated Authority	Resiliency Action Category	Resiliency Action Type	# of Funding Sources	Cost	Ranking Score	Risks and Vulnerability	Implementation	Project Benefits	Added Value	Project Complexity	Status
☒ Elevate this building	View Report	None	Building Level Mitigation	Structural Elevation	0	\$47,619	39	12	13	4	10	10.1	Included
☒ save the buildings	View Report	None	Building Level Mitigation	Acquisition/De...	0	\$1,540,262	29	8	8	4	9	9.6	Included
☐ Johnston Sample Action	View Report	None	Building Level Mitigation	Wet Floodproofing	0	\$204,289	23	3	9	4	7	4	Planning
☐ Sample Action	View Report	None	Building Level Mitigation	Wet Floodproofing	0	\$113,905	13	13					Planning

- Once you are ready, you can select submit plan to DEQ.

Action Plan Summary

Included Resiliency Actions by Category

4 Actions

Channel Modification (1)

Building Level Mitigation (2)

Nature Based Solutions (1)

Submit Plan to DEQ

- The tool will display this window. This is the place where you can see if you're missing any important details of your resiliency actions.

[← View All Action Plans](#)

Submit Action Plan to DEQ

When you've submitted your local plan, the included actions become eligible to be reviewed by NCDEQ staff for potential inclusion in future basin action strategies. NCDEQ staff may also help identify potential funding sources through the Flood Resiliency Blueprint or other programs.

Action Plan Name	Test Johnston County Action Plan
Action Plan Description	
Basin	Neuse
Jurisdiction(s)	Johnston County

Review the included Resiliency Actions Below:

1 Check each resiliency action for completion

A warning symbol ⚠ indicates that the action is missing recommended information.

2 Do you have any priority resiliency actions?

Check up to 3 resiliency actions in the list.

Action Name (Click to Edit the Action)	Ranking Score	Project Complexity	Funding Sources	Priority Action
Elevate this building	39	10.1	⚠	☐
save the buildings	29	9.6	⚠	☐
Nature Based	N/A	9.1	⚠	☐
Channel Modification	⚠	⚠	⚠	☐

Close Submit Action Plan

Acquisition/De... 0 \$1,540,262 29 8 8 4

- In this summary, we can see the action plan name, description, basins, and jurisdictions included.
- To review the plan, we're going to check each resiliency action for completion. There will be warning symbols that indicate if the action is missing any details. If needed, we can add any additional details.

- To edit an action, we can select it from the list. A new window will open for editing.

- We saw that our action was missing a funding source, so we can add one from the actions funding profile.
- Once we have changed our action, we can select “submit plan to DEQ” from the Action Plan Summary page.
- Before submitting, you will also want to look for priority resiliency actions. We can select up to three resiliency actions to label as priority actions.

Action Name (Click to Edit the Action)	Ranking Score	Project Complexity	Funding Sources	Priority Action
Elevate this building	39	10.1	1	☒
save the buildings	29	9.6	1	☒
Nature Based	N/A	9.1	1	☒
Channel Modification	1	1	1	☐

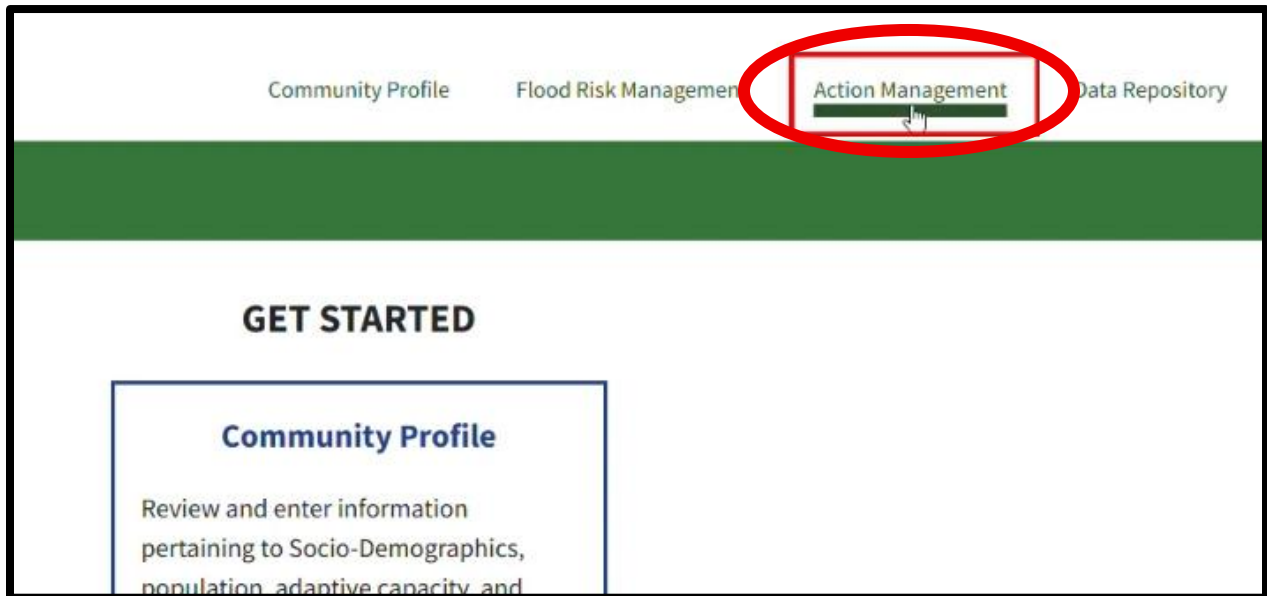
- Once we have selected our priority actions, we can submit our action plan.

Rating Score	Project Complexity	Funding Sources	Priority Action
39	10.1	1	☒
29	9.6		☒
N/A	9.1		☒
			☐

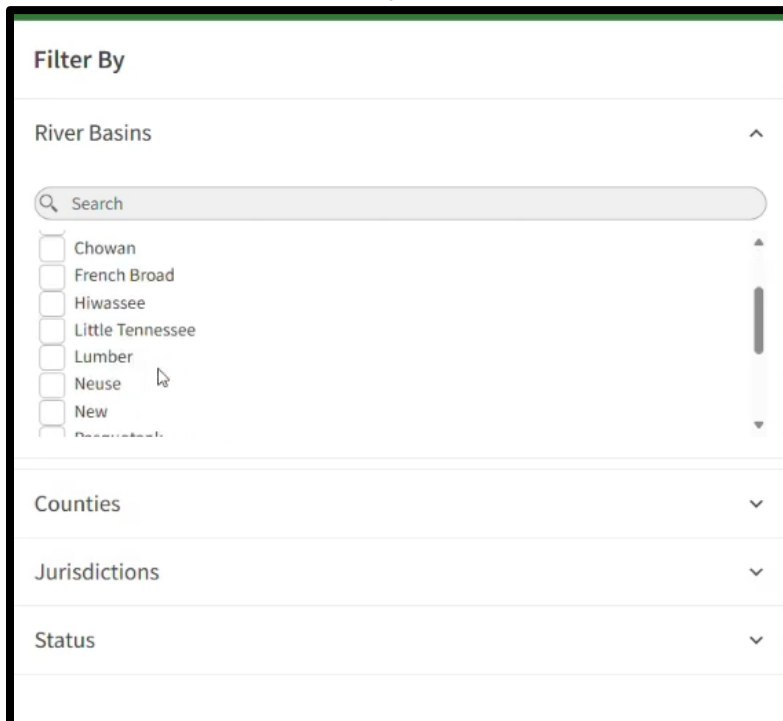
 Submitted

6.1 Action Management Summary

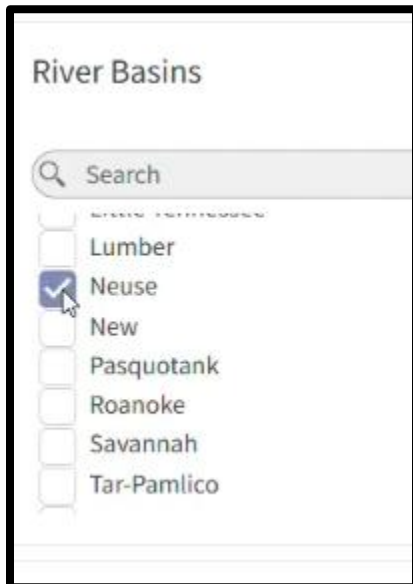
- We will start by entering the action management summary from the welcome page.



- On the left side, we can see the potential filters which are river basins, counties, jurisdiction, or the status of resiliency action.



- Once we select the filters, the map will highlight the selected areas that we have filtered. We will select a basin to start.



- The outline of the Neuse Basin will show in a dashed outline. Each of the points on the map are individual resiliency actions. The closer we zoom, the more detail about the location of the resiliency actions. We'll see.



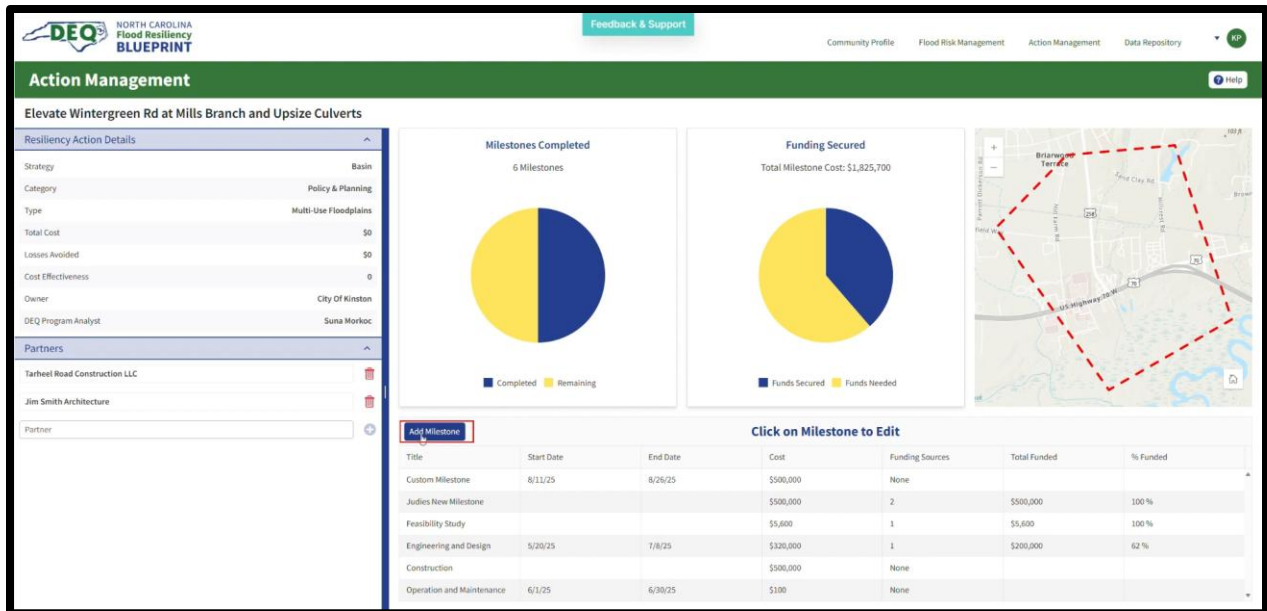
- Some actions are displayed as points and some of them are polygon action areas.

- You can filter by action name, owner, or DEQ analyst.
- We can also choose the drop-down options to filter by action category, action type, status, and action strategy.

Name	Action Report	Action Category	Action Type	Status	Action Strategy	Jurisdictions
Elevate Wintergreen Rd at Mills Branch and Upsize Culverts	View Report	Policy & Planning	Acquisition/Demoli Dry Floodproofing	Included	Basin	City Of Kinston
Elevate this building	View Report	Building Level Mitigation	Mitigation Reconstruction Relocation	Included	Local	Johnston County
test	View Report	Building Level Mitigation	Structural Elevation	Submitted	Local	City Of Kinston
Export to Excel						

- A user can view a resiliency action dashboard by clicking on the name of the action. This is also where we will see if there are action partners, funding sources, the number of milestones met, and the total funds secured compared to the total cost.

Name	Action Report	Action Category	Action Type	Status
Elevate Wintergreen Rd at Mills Branch and Upsize Culverts	View Report	Policy & Planning	Multi-Use Floodplains	Included
Elevate this building	View Report	Building Level Mitigation	Structural Elevation	Included
test	View Report	Building Level Mitigation	Wet Floodproofing	Submitted
Export to Excel				



- On this page, we can add new milestones to our action by selecting add milestone and filling out the relevant details.

Milestones Completed

Create Milestone

Title

Start Date: month/day/year

End Date: month/day/year

Progress: [Progress Bar]

Milestone Cost: [Cost Input]

Funding Source: [Funding Source Input]

Amount of Funding: [Amount of Funding Input]

Completely Funded: N/A

Save Cancel

- We can also access a report on our resiliency actions. The resiliency action report will be specific to the selected resiliency action.

Name	Action Report	Action Category	Action Type
Elevate Wintergreen Rd at Hills Branch and Upsize Culverts	View Report	Policy & Planning	Multi-Use Floodplains
Elevate this building	View Report	Building Level Mitigation	Structural Elevation
Test	View Report	Building Level Mitigation	Wet Floodproofing

- The action report can be saved as a PDF by clicking save as a PDF.

Community Profile

Save As PDF

Multi-Use Floodplains Information

Project Area (acres)	0.0
Ecosystem Service Value (USD/acre/yr)	\$0
Project Area Ecosystem Service Value (USD/year)	\$0
Useful Life without Perpetual Easement (yrs)	0
Ecosystem Service Value without Perpetual Easement	\$0
Useful Life with Perpetual Easement (yrs)	0
Ecosystem Service Value with Perpetual Easement	\$0
Parcel Value	\$0

Impacted Buildings

Building ID	Risk Score	Annualized Loss Estimate (ALE)	Damage
371072020061798293	97.5	\$19,827	\$50,000
371072020061798358	90.0	\$8,502	\$26,000
3710720488	82.6	\$8,701	\$27,000
371072020061798260	77.1	\$3,691	\$22,000
371072020061798294	75.6	\$9,488	\$30,000
371072020061748909	73.4	\$11,261	\$36,000
371072020061748881	69.1	\$8,854	\$29,000
371072020061748823	66.2	\$8,321	\$27,000
3710720116	65.7	\$51,408	\$310,000

- Another way to download the action data is to export the results or filtered results to an Excel file.
- As an example, we will pick Lenoir County.

Counties

Search

☐ Greene County

☐ Harnett County

☐ Johnston County

☐ Jones County

☒ Lenoir County

☐ Nash County

☐ Onslow County

- Now we are viewing the resiliency actions for Lenoir County and we can go ahead and hit “export to Excel”.

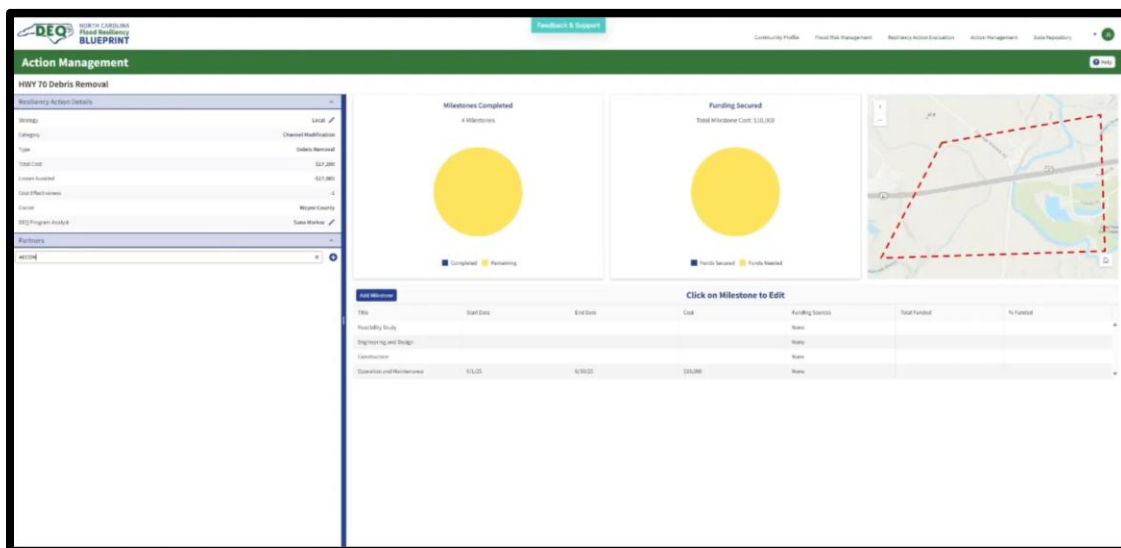
Elevate Wintergreen Rd at Mills Branch and Upsize Culverts	View Report	Policy & Planning	Multi-Use Floodplain
test	View Report	Building Level Mitigation	Wet Floodp
goodmanroad	View Report	Policy & Planning	Multi-Use Floodplain
 Export to Excel			

Name	Action Category	Action Type	Status	Action Strategy	Jurisdictions	Deleg
Elevate Wintergreen Rd at Mills	Policy & Planning	Multi-Use Floodplains	Included	Basin	City Of Kinston	
test	Building Level Mitigation	Wet Floodproofing	Submitted	Local	City Of Kinston	
goodmanroad	Policy & Planning	Multi-Use Floodplains	Submitted	Local	City Of Kinston	
Afforestation with no funding	Nature Based Solutions	Afforestation	Included	Basin	City Of Goldsboro	
Kinston Infrastructure Stormwater	Infrastructure & Control	Storm Water Management	Submitted	Basin	City Of Kinston	
debris removal try #2	Channel Modification	Debris Removal	Submitted	Local	City Of Kinston	
homesadkins	Policy & Planning	Multi-Use Floodplains	Submitted	Local	City Of Kinston	
Bioretention Cell at US258N and	Nature Based Solutions	Bioretention	Submitted	Basin	City Of Kinston	
Alli	Building Level Mitigation	Acquisition/Demolition	Included	Basin	City Of Kinston	
Floodplain preservation	Nature Based Solutions	Floodplain Preservation	Submitted	Basin	City Of Kinston	
Sample Action	Building Level Mitigation	Relocation	Included	Basin	Craven County, City Of Kinston	
relocation for struct	Building Level Mitigation	Relocation	Submitted	Basin	City Of Kinston	
Stu's Structural Elevation	Building Level Mitigation	Structural Elevation	Submitted	Basin	City Of Kinston	
House acquisition on the 300 bloc	Building Level Mitigation	Acquisition/Demolition	Included	Basin	City Of Kinston	
Road expansion Dr J Road	Infrastructure & Control	Roadway Elevation/Road	Submitted		City Of Kinston	
Road elevation at the corner of	Infrastructure & Control	Roadway Elevation/Road	Submitted		City Of Kinston	
Living Shoreline Project in a diff	Nature Based Solutions	Living Shorelines	Submitted		City Of Kinston	

- Anytime the filter is changed, the export to Excel output will have the filtered results.

6.2 Resiliency Action Dashboard

- The blueprint tool administrators will have access to the resiliency action dashboard. This includes the delegated authority rules and the owners of the individual actions. If you are not a delegated authority, you will be able to see the summary of actions, but you will not be able to access the action details. But if you are a submitter for a jurisdiction, you will be able to access the details of actions in your jurisdiction.
- When we click on a resiliency action, the resiliency action dashboard will open. This is where details about the resiliency action will be.



- Depending on your role within the tool, you may or may not have the ability to edit the action details. If you are logged in from a local government, you will not see the edit button, which is a pencil icon next to the editable details, but you will see the details.



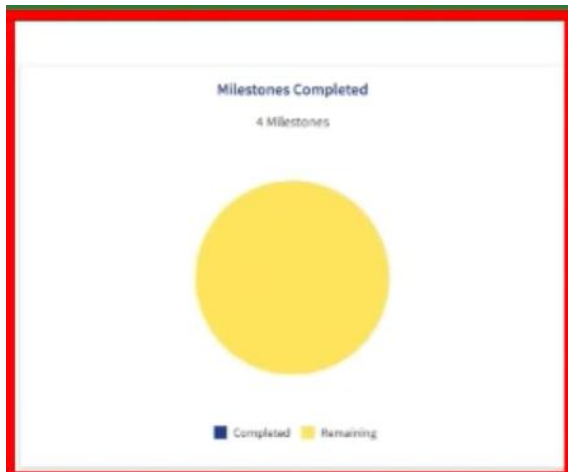
- Under the details, you will see what kind of action strategy this resiliency action has been assigned, the action category, action type, total cost, losses avoided, cost effectiveness, owner, and DEQ program analyst that is assigned to the jurisdiction.

HWY 70 Debris Removal	
Resiliency Action Details	
Strategy	Local 
Category	Channel Modification
Type	Debris Removal
Total Cost	\$17,200
Losses Avoided	-\$17,005
Cost Effectiveness	-1
Owner	Wayne County
DEQ Program Analyst	Suna Morkoc 
Partners	

- Partners for each resiliency action are parties that will be involved with the project implementation. For example, if there was a road elevation resiliency action, we may need to include the road construction company partner in the action details.

Partners	
AECOM	
Partner	

- We can add or remove any partner.



- The dashboard has a chart of milestones which shows the completed milestones in blue and the remaining milestones in yellow.



- Next to our chart of completed and remaining milestones, we have a chart of funds secured and funds needed.
- The table below shows four milestones that are incomplete.

Completed

Remaining

Funds Secured

Funds Needed

Administration

Click on Milestone to Edit

Title	Start Date	End Date	Cost	Funding Sources
Feasibility Study				None
Engineering and Design				None
Construction				None
Operation and Maintenance	6/1/25	6/30/25	\$10,000	None

- The table includes the start date, the end date, cost, funding, courses, total funded, and percent of the project that is funded.
- By default, each resiliency action will be assigned four milestones. This includes engineering and design, construction, feasibility study, and operations and maintenance.
- Each default milestone is editable, so action submitters can change the milestones, edit, or delete any milestone they want.

Edit Milestone

Title: Operation and Maintenance

Start Date: 6/1/2025 End Date: 6/30/2025

Progress: 75% Milestone Cost: \$10,000.00

Funding Source: Amount of Funding: +

Completely Funded: No

Save Cancel Delete

- For this milestone, we see a start date of June 1st and an end date of June 30th, but we change our progress to 75%. We will leave the milestone cost at \$10,000. We can also add our funding sources here.
- Once we finish inputting details for our milestone update, the tool will automatically populate the details and total funded.

Create Milestone

Title: Custom Milestone

Start Date: 8/11/2025

End Date: month/day/year

Progress: [Dropdown]

Funding Source: [Text Input]

Completely Funded: N/A

Calendar: June 2025 (17th selected)

Buttons: Save, Cancel

- We can also create a custom milestone which we will title “Custom Milestone” with a start date of August 11th and an end date of August 26th. We will put a milestone cost of this as \$500,000 and we will say this milestone has no funding sources yet and then save.
- Again, the tool will automatically populate with the details we enter.
- Let's add funding sources to our custom milestone.

Funding Source: ABC LLC, Amount of Funding: \$10,000.00

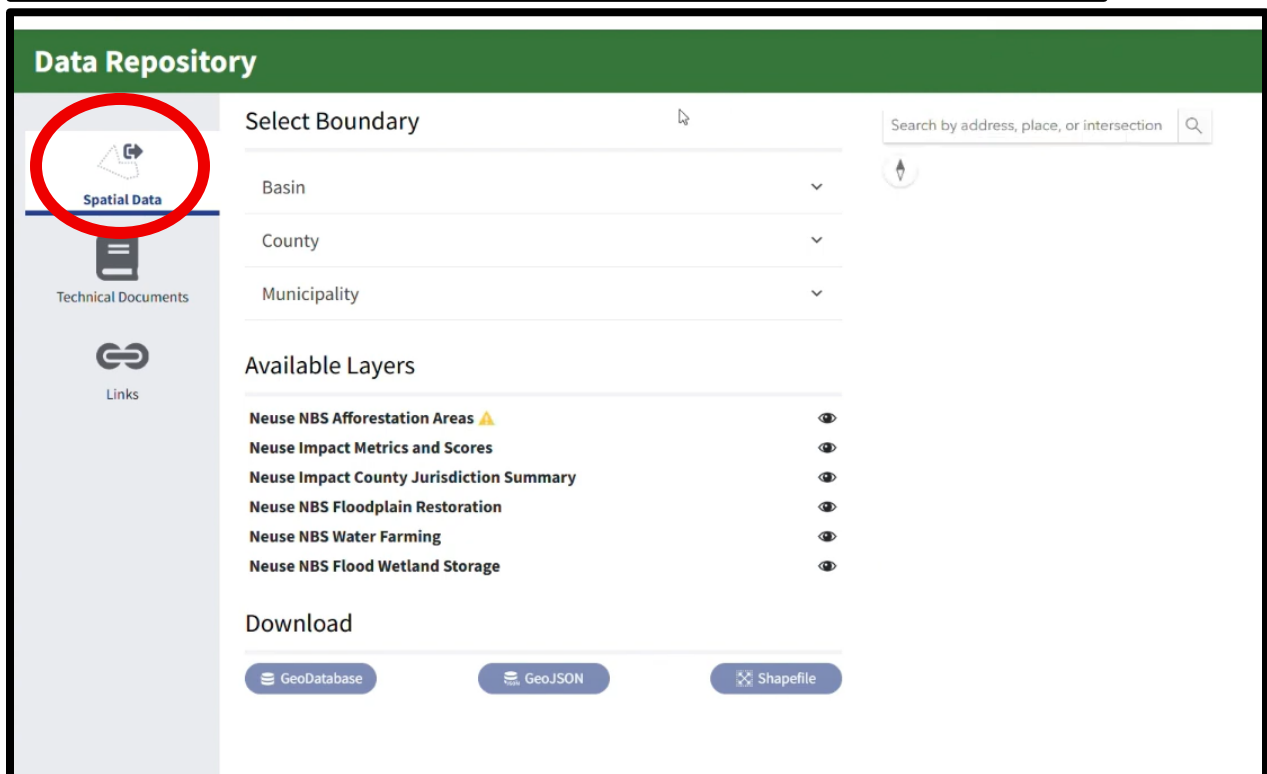
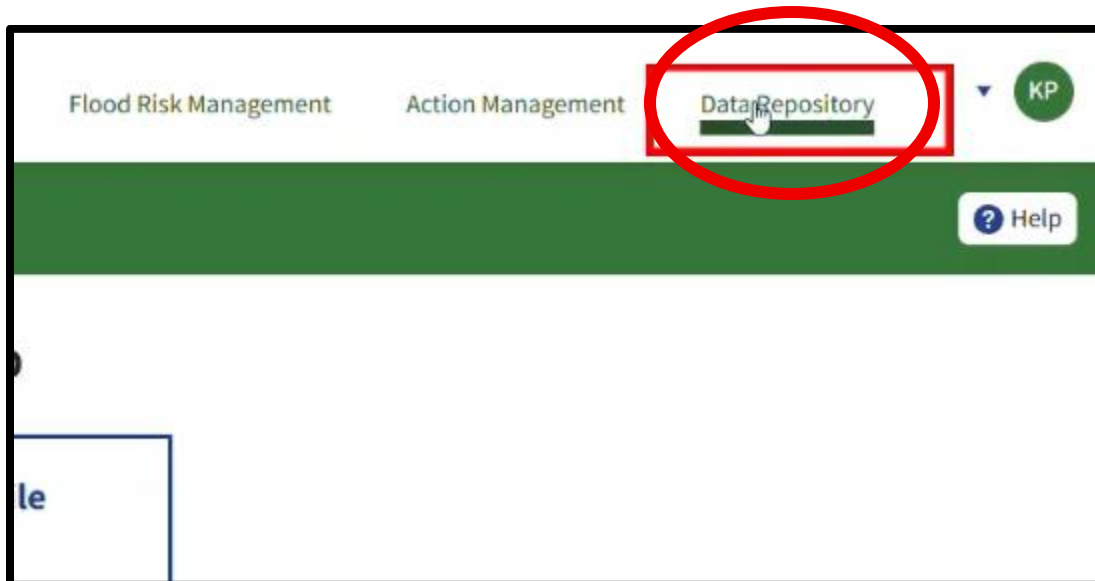
Funding Source: ABC LLC 2, Amount of Funding: \$490,000.00

Funding Source: ABC LLC, Amount of Funding: [Dropdown]

- As the milestones are completed and fully funded, the tool will update the dashboard to show that one out of five milestones have been completed.

Click on Milestone to Edit						
Title	Start Date	End Date	Cost	Budget Sources	Total Funded	% Complete
Custom Milestone	8/11/25	8/26/25	\$500,000	3	\$1,000,000	200 %
Feasibility Study				None		
Engineering and Design				None		
Construction				None		
Operation and Maintenance	6/1/25	6/30/25	\$100,000	None		

7. Data Repository



- When entering the data repository, the first part of the repository is the spatial data. This is where the user is able to see the different spatial data available for the user to download.

- You can filter the spatial data by basin, county, and municipality.

Select Boundary

Basin

▼

County

▼

Municipality

^

▼

- All the available layers in the new basin are listed here.

Available Layers

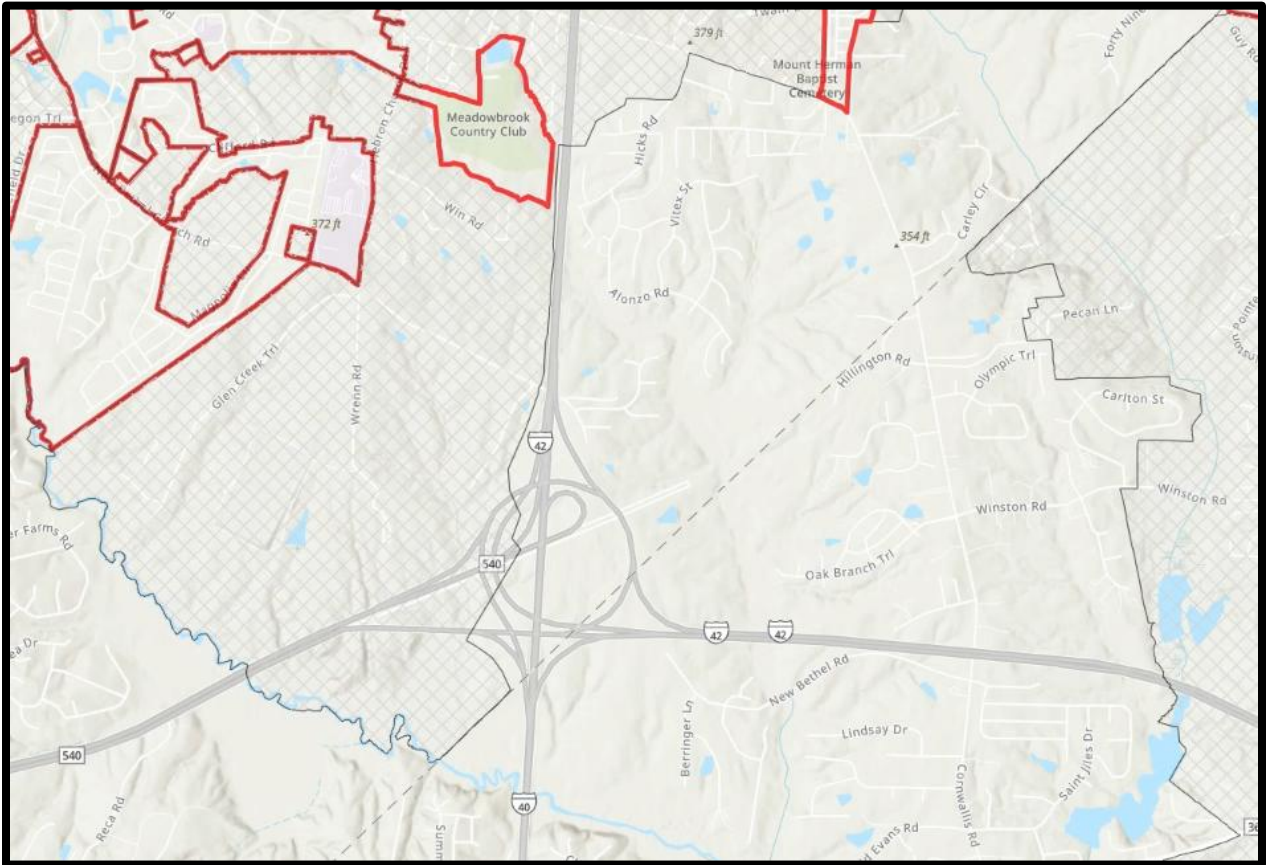
Neuse NBS Afforestation Areas ⚠	👁
Neuse Impact Metrics and Scores	👁
Neuse Impact County Jurisdiction Summary	👁
Neuse NBS Floodplain Restoration	👁
Neuse NBS Water Farming	👁
Neuse NBS Flood Wetland Storage	👁

- As more layers are added, they will also be listed here. As an example, we will select the news layers. And as more basins are added to the blueprint tool, filtering through the spatial data will become necessary.
- If there is a warning icon next to an available layer, that just means that the feature is not available at the current map scale.

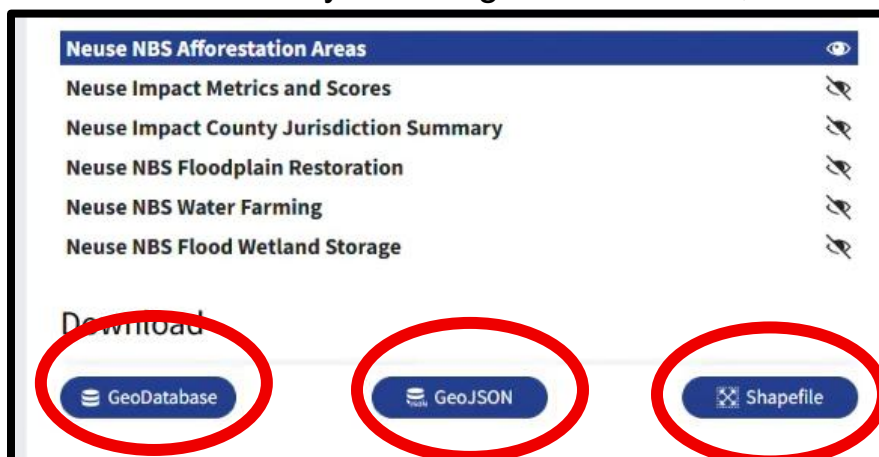
Available Layers

Neuse NBS Afforestation Areas ⚠
Neuse Impact Metrics and Scores

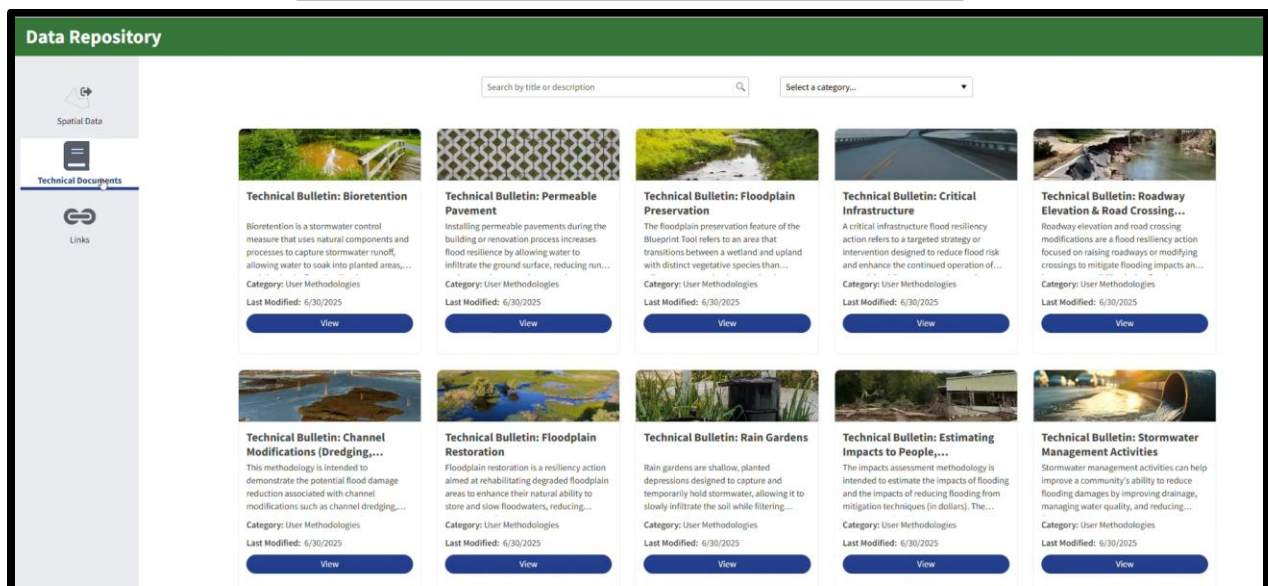
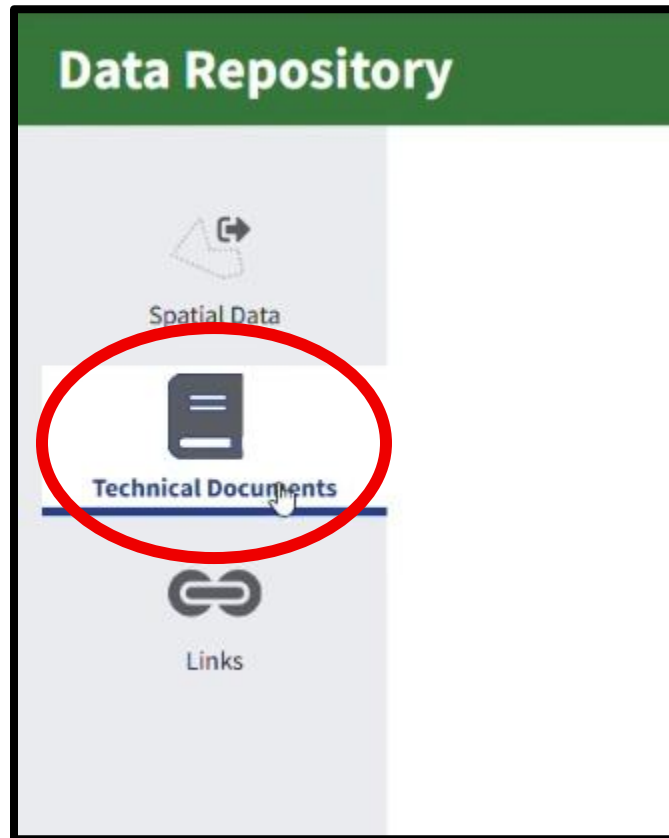
- We can click to show the afforestation areas, but we will need to zoom in close enough to see the data. At this point, the warning symbol will disappear.



- Some of the larger layers are complex and may take a bit of time to render on the map.
- Once the layer is rendered, we can go ahead and select the layer and download it by selecting GeoDatabase, GeoJSON, and Shapefile.

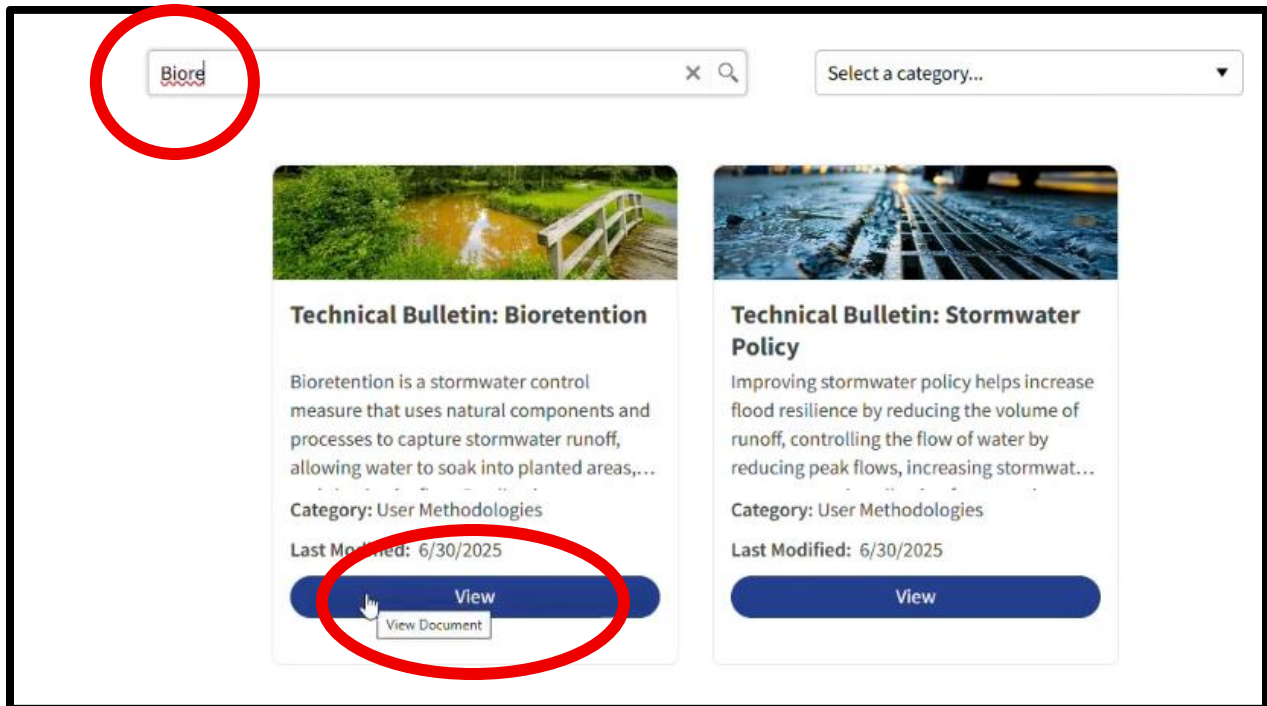


- If we want to view the technical bulletins, we can go into the technical documents tab and search for the document we want to view.

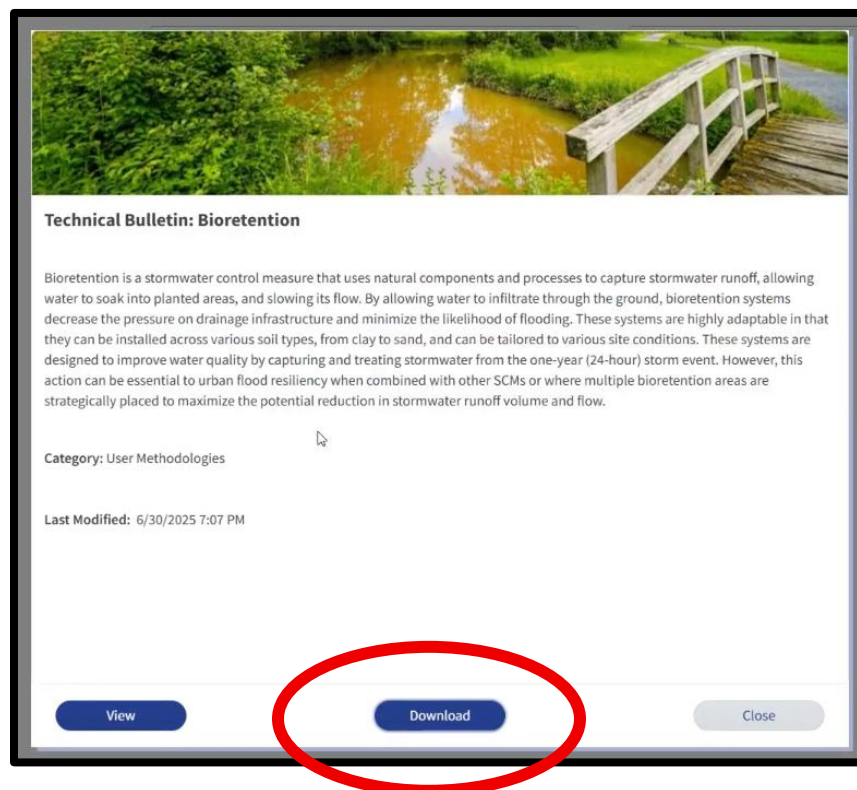


- For example, we can type in the word “estimating” and it will match us to the technical documentation where the title or the description includes the word “estimating”.

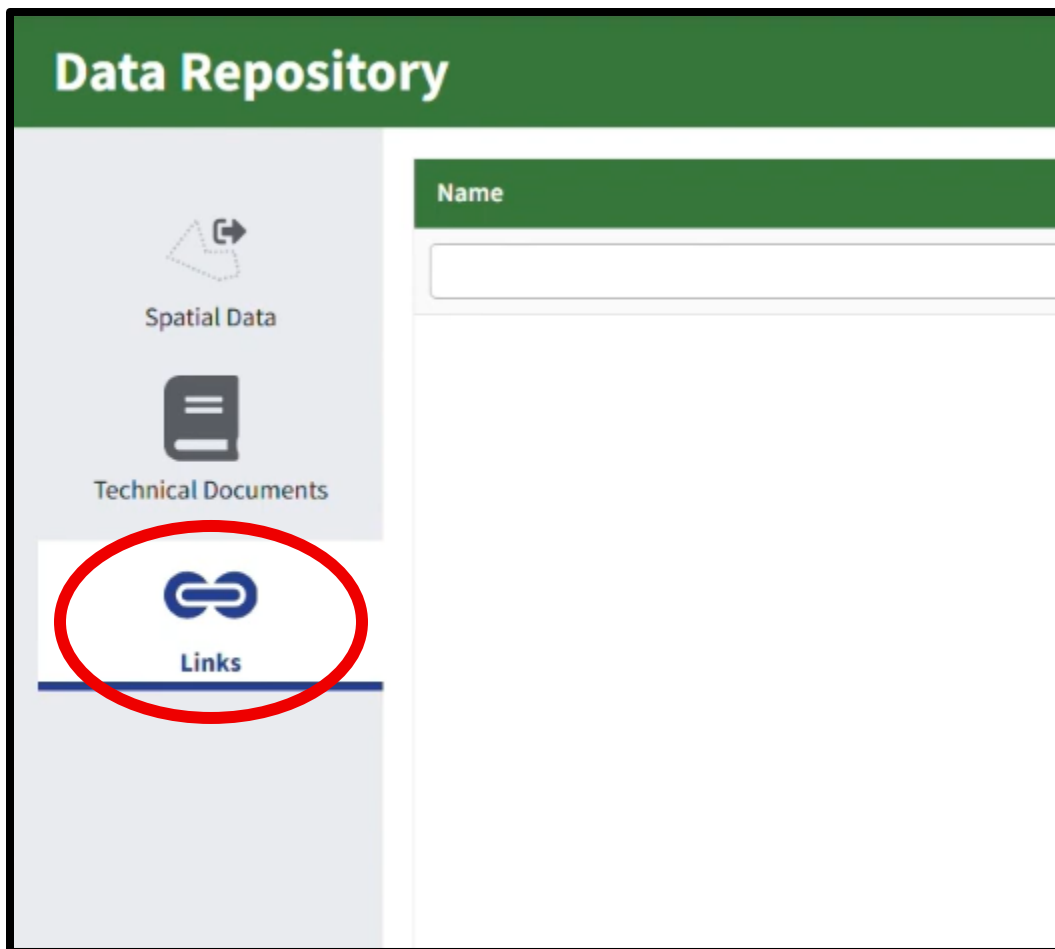
- Now, let's search “bioretention”.



- Once we click “view”, the tool will open up the technical bulletin for “bioretention” in a separate window. From here you can download the documents.

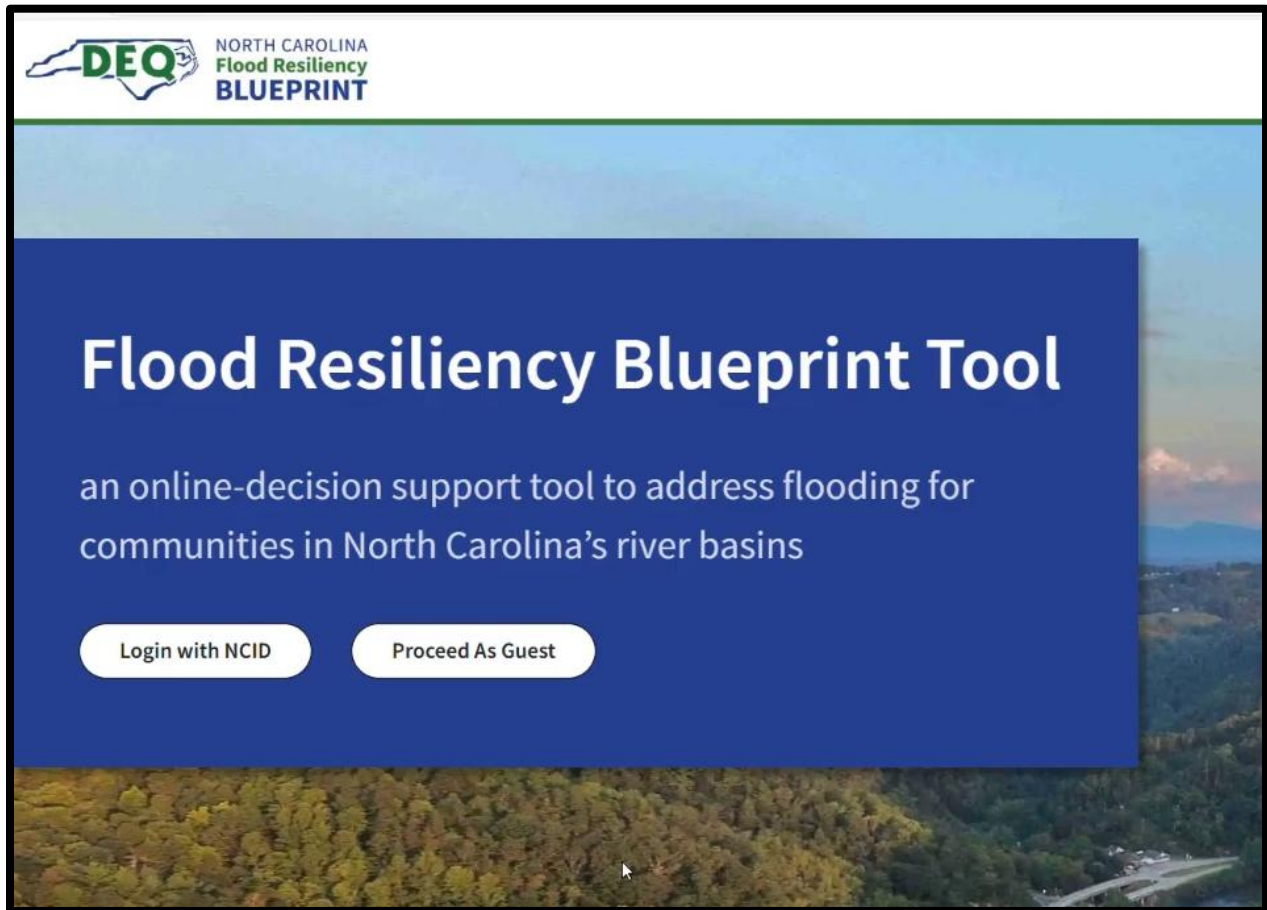


- Some of the documents may be in the form of a PDF, but future documentation that may be added could be in the form of an Excel spreadsheet or other formats.
- Pertinent links for resources outlined in the technical documentation will be accessible through the links tab of the data repository in the near future.



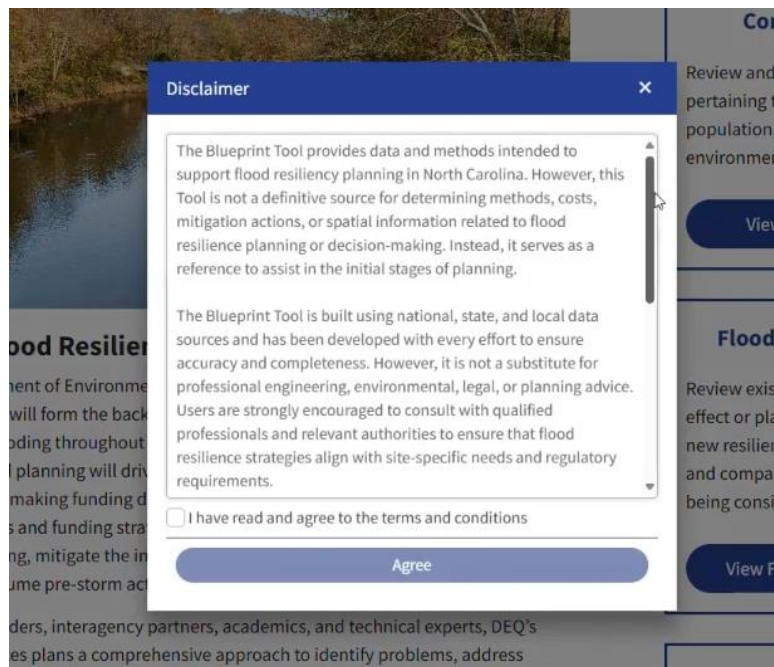
8. Public Users

- To enter the site, we'll click the “proceed as guest” button.



- A guest can access parts of the tool, but not everything. Let's do a quick walkthrough of the publicly available parts of the site.

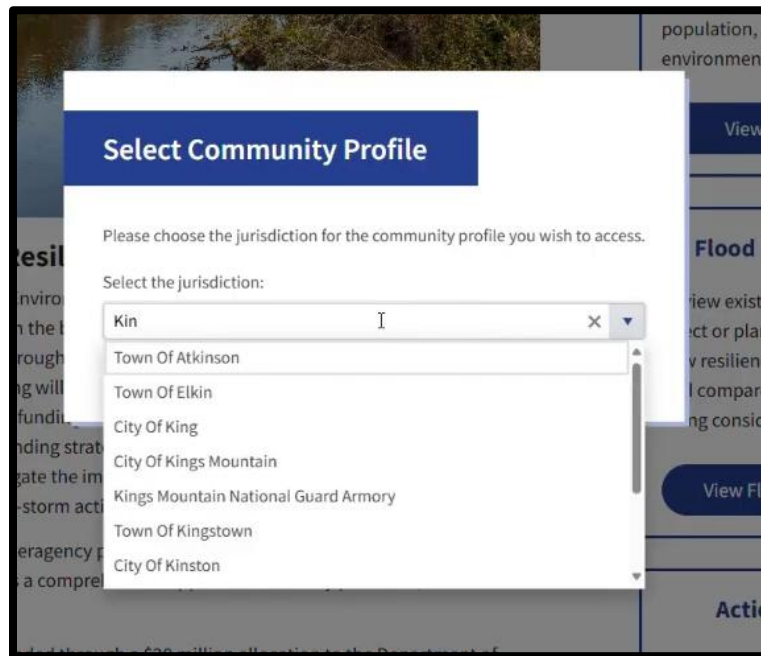
- To get started, please review the disclaimer. This will help you understand what to expect from the tool and what the limitations are.



- Next, click the checkbox to agree to the terms and conditions. Then, click the agree button.
- As a guest, you'll be able to access the community profile for all the jurisdictions in the state.



- In the community profile, you can see information about flood risk, demographics, and flood impacts at the community level.
- First, you'll select the jurisdiction you'd like to see from the drop down. There are a lot of jurisdictions, so a tip to get there more quickly is to start typing the name of the jurisdiction you'd like to see and pick from the filtered results below.



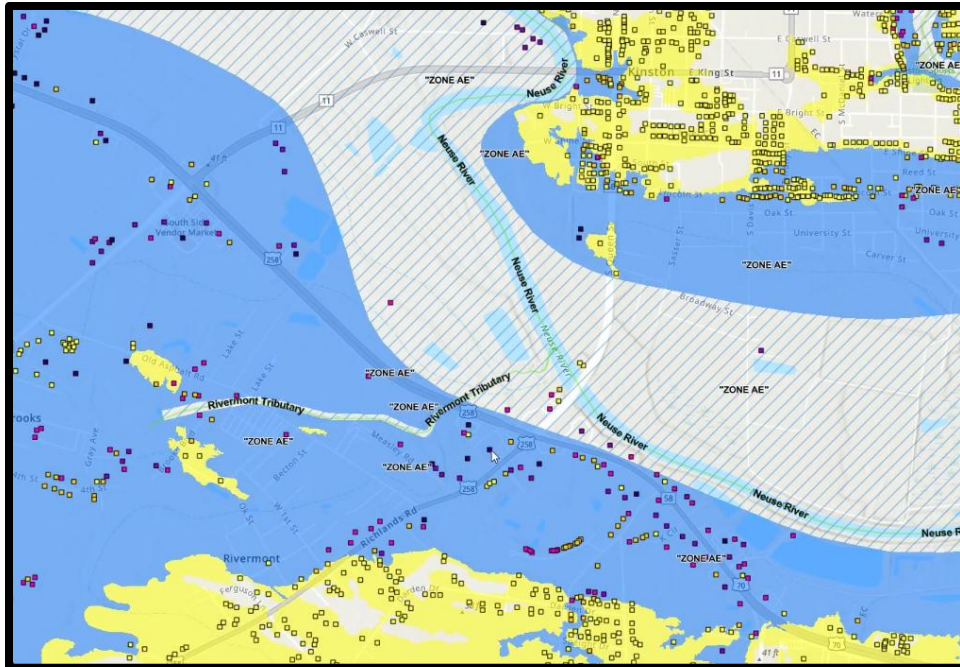
- As a public user guest, you'll be able to view but not add to or modify several geospatial data sets related to flood risk and resiliency.
- To learn more about specific community profile components, please see the community profile training videos starting with video number 3.0, or page 18 of this manual.

- Next, we'll explore the flood risk management page. This option provides tools to assess your flood risk. These tools expand on the flood risk summary graphs from the community profile. You can explore the geographic distribution of flood risk in a jurisdiction by selecting an impact type and recurrence interval where applicable.

The screenshot shows a web interface titled "Flood Risk Management" in a green header. Below it is a white section titled "Resiliency Action Planning". Underneath is a blue button labeled "Assess Your Risk" with an upward arrow. Below the button are two dropdown menus. The first is labeled "Select Impact Type" and has "Building Risk Score" selected. The second is labeled "Select Recurrence Interval" and has "100-Year Flood" selected.

- By zooming into the map, we can view structural footprints that use a color gradient symbology to represent the selected impact type.





- We can select individual buildings on the map to view its specific risk score, estimated impacts of flooding, building elevation, and other characteristics.

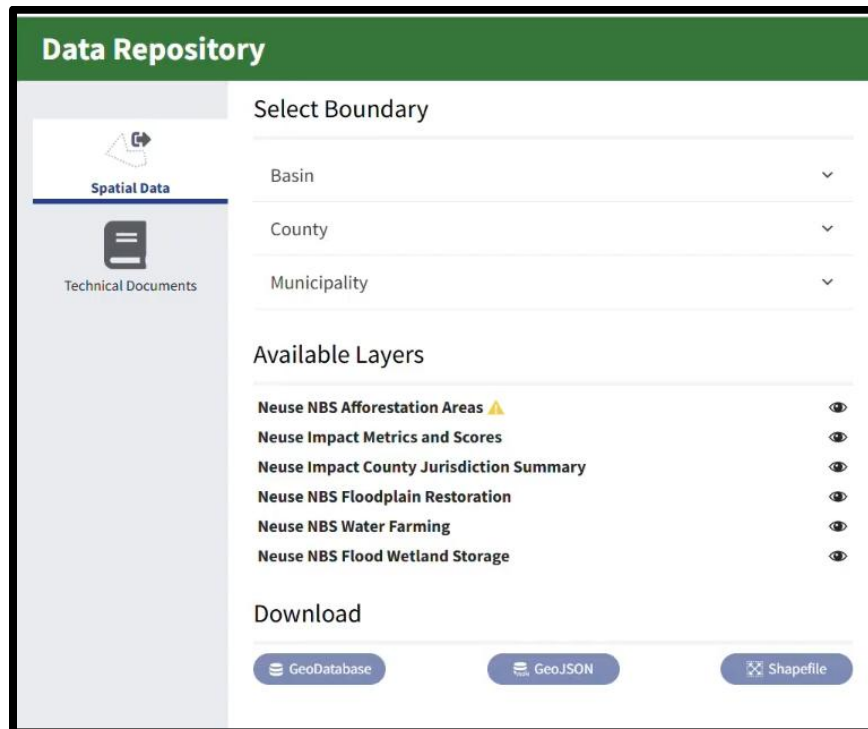
Building Details				
Building ID: 3710720603				
Parcel ID: 4524-16-7768				
Risk Score: 5.9 !				
Impacts ^				
Annualized Loss Estimate: \$41,112				
Recurrence Interval	Flood Depth vs FFE (ft)	Structural Cost	Contents Cost	30-Year Probability
10-year Flood	-3.2 Ft	\$0	\$0	16%
25-year Flood	-1.6 Ft	\$0	\$0	41%
50-year Flood	-0.2 Ft	\$608,000	\$0	58%
100-year Flood	1.1 Ft	\$1,524,000	\$410,000	82%
500-year Flood	4.1 Ft	\$2,969,000	\$1,031,000	100%
Building Elevation v				
Building Characteristics v				
Close				

- As a public user, the next thing we can access is the action management page. Here we can review resiliency actions that have been submitted to NCDEQ for consideration and those that have been prioritized and included in the River Basin action strategy.

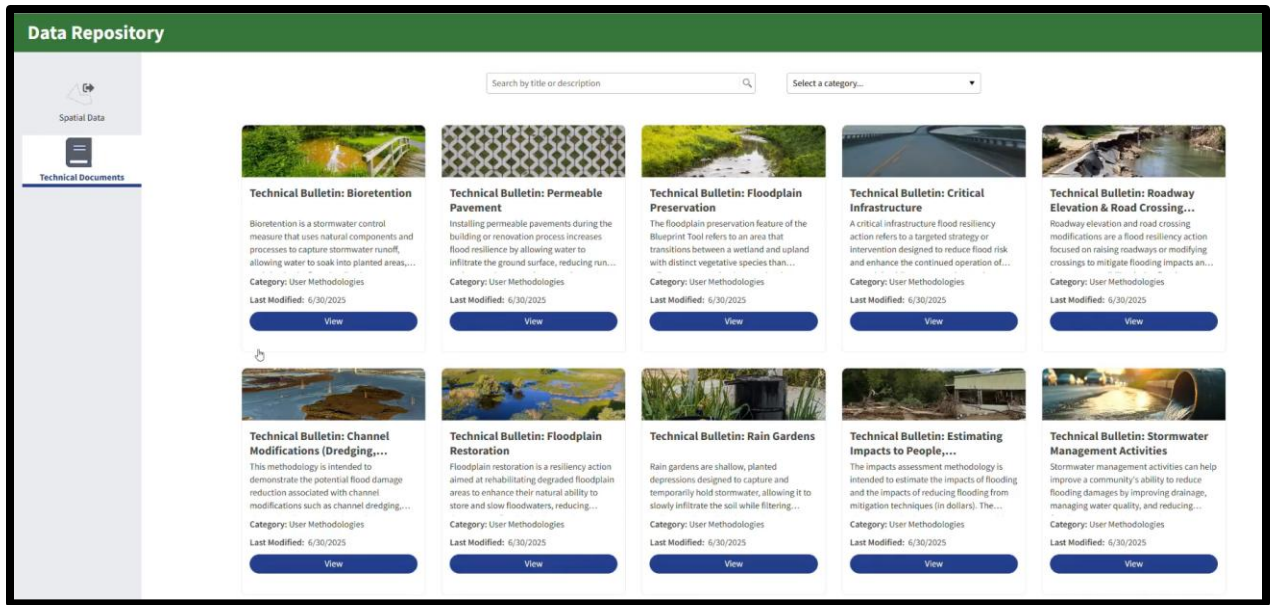
The screenshot displays the 'Action Management' interface. At the top is a green header with the text 'Action Management'. Below this is a 'Filter By' section. The first filter is 'River Basins', which is expanded to show a search bar and a list of basins with checkboxes: All Basins, Broad, Cape Fear, Catawba, Chowan, French Broad, Hiwassee, and Little Tennessee. Below the 'River Basins' filter are three collapsed filter sections: 'Counties', 'Jurisdictions', and 'Status', each with a downward arrow icon.

- To learn more about specific action management, filtering, downloads, and other components, please see the action management summary training video number 6.1 (or page 157 of this manual).

- In the data repository, you can download geospatial data sets unique to the blueprint tool that were created to support various tool functions like the impact assessment and suitability layers for specific nature-based solution resiliency actions.



- You can also download technical documents to review background information on the methods supporting resiliency actions and different tool components.



- To learn more about how to access resources in the data repository, please see the data repository training video number 7.0 (or page 170 of this manual).