

May 2017

# Hurricane Matthew Resilient Redevelopment Plan

## Greene County



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## Executive Summary

In October 2016, Hurricane Matthew caused widespread destruction in the Caribbean and up the Eastern Seaboard of the United States. In North Carolina, at least 25 people lost their lives, and 100,000 homes, businesses, and government buildings sustained damage estimated at \$1.5 billion.<sup>1</sup> At the storm's peak, 3,744 individuals fled to 109 shelters across the region. More than 800,000 households lost power and 635 roads were closed, including the major east-west and north-south corridors.

In December 2016, the North Carolina General Assembly established the North Carolina Resilient Redevelopment Planning (NCRRP) initiative as part of the 2016 Disaster Recovery Act (*Session Law 2016-124*). The purpose of the program is to provide a roadmap for community rebuilding and revitalization assistance for the communities that were damaged by the hurricane. The program empowers communities to prepare locally driven recovery plans to identify redevelopment strategies, innovative reconstruction projects, and other needed actions to allow each community not only to survive but also to thrive in an era when natural hazards are increasing in severity and frequency.

The NCRRP consists of planning and implementation phases and is managed through North Carolina Emergency Management.



Figure 1. NCRRP Counties

This document is a snapshot of the current needs of the County regarding holistic recovery and redevelopment. The plan will evolve as the county analyzes the risk to its assets, identifies needs and opportunities, determines the potential costs and benefits of projects, and prioritizes projects. As projects are more fully defined, the potential impact on neighboring communities and the region may lead to modifications.

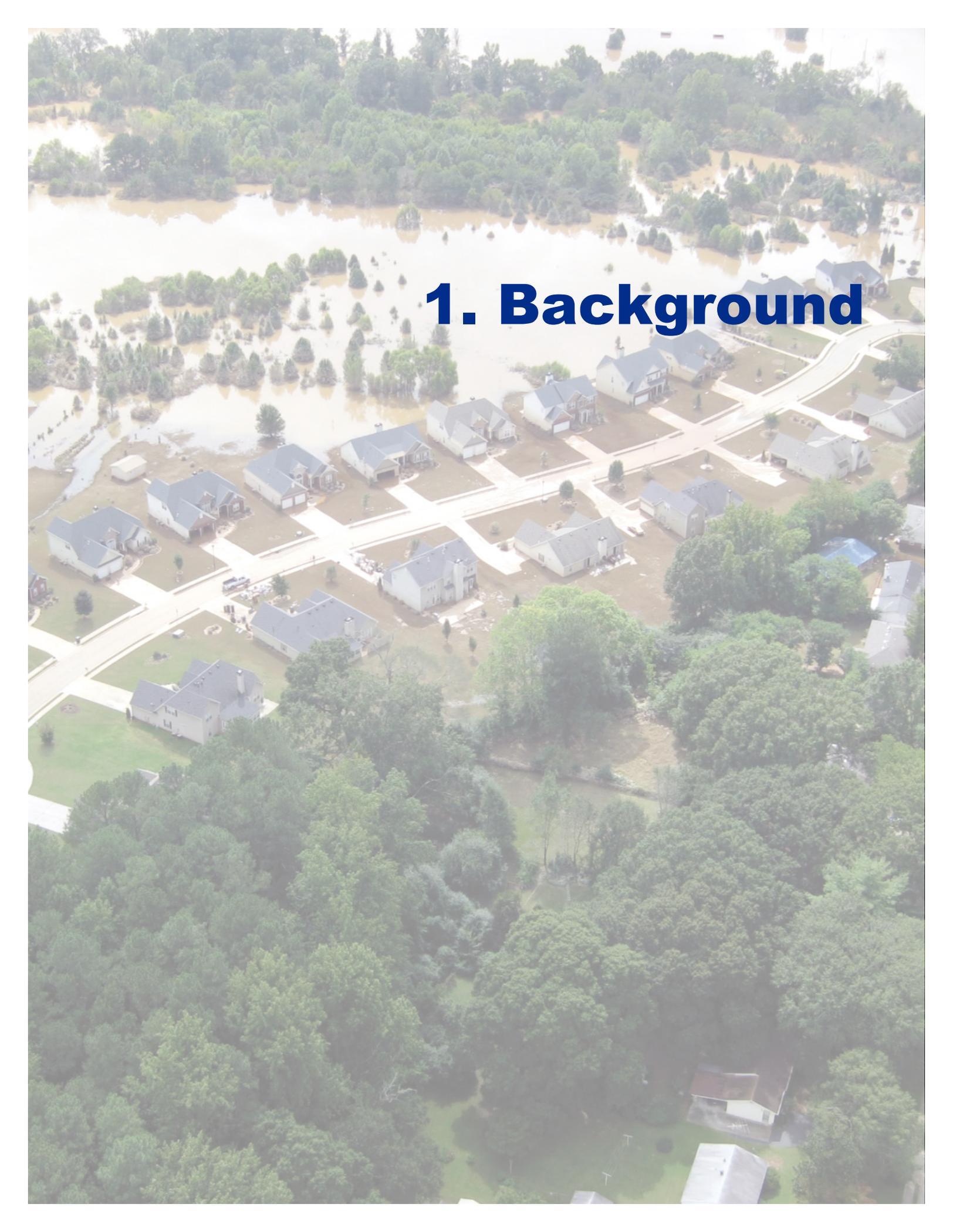
Implementation of the proposed projects and actions described in this plan is subject to applicable federal, state, and local laws and regulations. Proposed projects or actions may be eligible for state or federal funding, or could be accomplished with municipal, nonprofit, or private investments. However, inclusion of a project or action in this plan does not guarantee that it will be eligible for recovery funding.

<sup>1</sup> Reuters, "Hurricane Matthew's North Carolina Toll: 26 Dead, \$1.5B in Damage," *Newsweek* (October 17, 2016), <http://www.newsweek.com/hurricane-matthew-north-carolina-26-dead-15-billion-510783>.

After multiple public meetings, Greene County has identified 34 projects in four pillars: Housing, Economic Development, Infrastructure, and Environment. Details of these projects can be found in Section 4 of this plan.

Pillar	Project/Action Count
Housing	6
Economic Development	5
Infrastructure	18
Environment	5
<b>Grand Total</b>	<b>34</b>

**Table 1. Greene County Summary of Projects by Pillar**



# 1. Background

# 1. Background

## Summary of Hurricane Matthew Storm Damage

Hurricane Matthew was an extraordinarily severe and sustained event that brought record-level flooding to many areas in eastern North Carolina’s coastal plain, sound, and coastal communities. Hurricane Matthew hit North Carolina on October 8, 2016, as a Category 1 storm. Communities were devastated by this slow-moving storm primarily by widespread rainfall. During a 36-hour period, up to 18 inches of heavy rainfall inundated areas in central and eastern North Carolina.

Riverine flooding began several days after Hurricane Matthew passed and lasted for more than 2 weeks. New rainfall records were set in 17 counties in the Tar, Cape Fear, Cashie, Lumber, and Neuse River watersheds. Entire towns were flooded as water levels throughout eastern North Carolina crested well beyond previously seen stages.

During the peak of the hurricane, 800,000 households lost power and 635 roads were closed, including a section of I-40 West in Johnston County that was closed for 7 days, and sections of I-95 North and South in Robeson and Cumberland Counties that were closed for 10 days.

Approximately 88,000 homes were damaged and 4,424 were completely destroyed. Losses totaled more than \$967 million, representing an economic loss as high as 68% of the damages, or \$659 million, not expected to be covered by insurance or FEMA assistance.

North Carolina Governor McCrory requested FEMA assistance on October 9, 2016, and FEMA subsequently declared a major disaster (DR-4285) for North Carolina on October 10, 2016, for 48 counties encompassing approximately 325 cities, towns, townships, and villages.

Preliminary estimates indicate more than 30,000 businesses suffered physical or economic damage, and 400,000 employees were affected as a result. Hurricane Matthew also had a significant impact on the agriculture and agribusiness economy in eastern North Carolina. The nearly 33,000 agricultural workers and 5,000 agricultural-support workers hit by the storm account for more than half of the state’s agriculture and agriculture-support workforce.

Initial economic analysis of the impacts of crop and livestock losses caused by Hurricane Matthew estimated the loss of more than 1,200 jobs and roughly \$10 million in state and local income and sales tax revenue. <sup>2</sup>

## State/Legislative Response

North Carolina’s response to Hurricane Matthew included 2,300 swift-water rescues using 79 boats and more than 90 air rescues. North Carolina also deployed over 1,000 National Guard and State Highway Patrol to assist with rescue and sheltering missions. There were 3,744 individuals transported to 109 shelters across central and eastern North Carolina during the storm’s peak.

FEMA’s disaster declaration made 50 counties eligible for FEMA assistance, 45 of which are eligible for Individual Assistance and Public Assistance and 5 of which are eligible for Public Assistance only.

- There were 81,832 individuals registered for FEMA/state assistance.

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<sup>2</sup> Governor McCrory’s Request for Federal Assistance for Hurricane Matthew Recovery, November 14, 2016

- Federal/state financial assistance in the amount of \$92.5 million was approved to help flood survivors recover.
- Small Business Administration (SBA) loans approved for individuals after Hurricane Matthew totaled \$65.6 million.
- SBA loans approved for businesses after Hurricane Matthew totaled \$23.2 million.

After the immediate response period, North Carolina Governor McCrory and the North Carolina General Assembly took the steps summarized below to obtain and allocate long-term funding for Hurricane Matthew.

**November 1:** The Hurricane Matthew Recovery Committee is established. Preliminary damage assessments are completed, and the State Emergency Response Task Force continues to administer programs and identify needs unmet by existing federal programs.

**November 14:** Governor McCrory formally submits North Carolina’s request for supplemental federal disaster assistance to the delegation as Congress returns to work.

**Late November/Early December:** Congress appropriates supplemental disaster assistance for North Carolina. After the supplemental federal disaster recovery assistance package is received, Governor McCrory submits a supplemental state disaster assistance package (House Bill 2) recommendation to the General Assembly and calls a special session. Governor McCrory then signs the Hurricane Matthew Recovery Act to fund disaster recovery efforts.

This supplemental federal assistance was to focus on housing, infrastructure, economic development, and the environment. These four pillars were to be funded through the following programs and agencies: The U.S. Department of Housing and Urban Development’s Community Development Block Grant–Disaster Recovery (CDBG-DR) program, Army Corps of Engineers Operations and Maintenance, the FEMA National Dam Safety Program, the Federal Highway Administration’s Emergency Highway Funding, and the U.S. Department of Agriculture’s Emergency Conservation and Watershed Protection programs.

### **Resilient Redevelopment Planning**

The purpose of the NCRRP initiative is to provide a roadmap for communities in eastern North Carolina to rebuild and revitalize after being damaged by Hurricane Matthew. The program empowers communities to prepare locally driven, resilient redevelopment plans to identify redevelopment strategies, innovative reconstruction projects, and other actions to allow each community not only to survive, but also to thrive in an era when natural hazards are increasing in severity and frequency.

The NCRRP initiative employs a holistic approach to planning that includes four pillars: housing, infrastructure, economic development, and the environment. Redevelopment strategies and reconstruction projects for each of the four pillars is included in each plan.

The NCRRP initiative consists of planning and implementation phases and is managed through North Carolina Emergency Management (NCEM).

## Scope of the Plan

This document is a snapshot of the County’s current needs for achieving holistic recovery and redevelopment. The plan will evolve as the County analyzes the risk to its assets, identifies needs and opportunities, determines the potential costs and benefits of projects, and prioritizes the projects. As projects are more fully defined, the potential impact on neighboring communities and the region may lead to modifications.

Planning objectives are to (1) develop strategic, resilient redevelopment plans and actions, and (2) to define any unmet funding needed to implement such actions after taking into account other funding sources.

The resulting resilient redevelopment plans will be the foundation for any supplemental funding received through Congress, the North Carolina General Assembly, and other funding sources. These plans will also be the basis for the state’s Recovery Action Plan, which is required by the U.S. Department of Housing and Urban Development before the state can expend funds received from the CDBG-DR program.

## Local Participation and Public Engagement

Stakeholder engagement and public involvement was an essential component of the NCRRP initiative. Four rounds of discovery, analysis, collaboration, and interaction were held with each affected county. Each meeting had two components: an in-depth working session with county officials, subject matter experts, and planners from the affected counties and municipalities; and a public open house. The purpose of each meeting was as follows:

**Meeting 1** – Initiated the planning process and validated the existing data pertaining to damage and impacts.

**Meeting 2** – NCEM presented draft documentation of resilient redevelopment strategies and received feedback from community leaders and the public.

**Meeting 3** – NCEM presented refined resilient redevelopment strategies based on feedback from Meeting 2 and received additional feedback.

**Meeting 4** – NCEM presented actions developed during the course of the planning process and allowed the county to rank actions; apply High, Medium, or Low Prioritization; and approve inclusion of the actions in the final plan.

Each of the 50 counties that were declared a major disaster by the President of the United States as a result of Hurricane Matthew under the Stafford Act (P.L. 93-288) participated in the resilient redevelopment planning process. Each municipality in those counties, as well as the five economic development regions that sustained damage from Hurricane Matthew, were also invited to participate. The counties impacted by the storm cover the eastern half of North Carolina and occupy parts of the piedmont, sand hills, and coastal areas of the state.

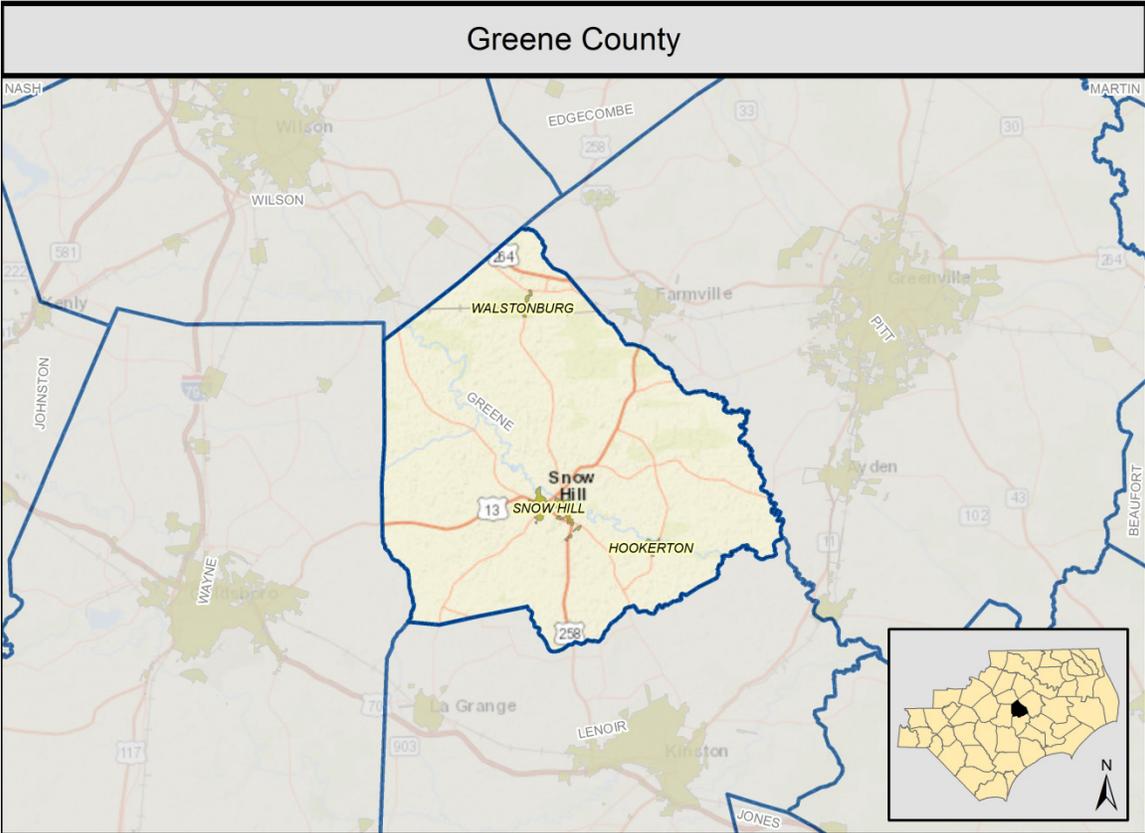
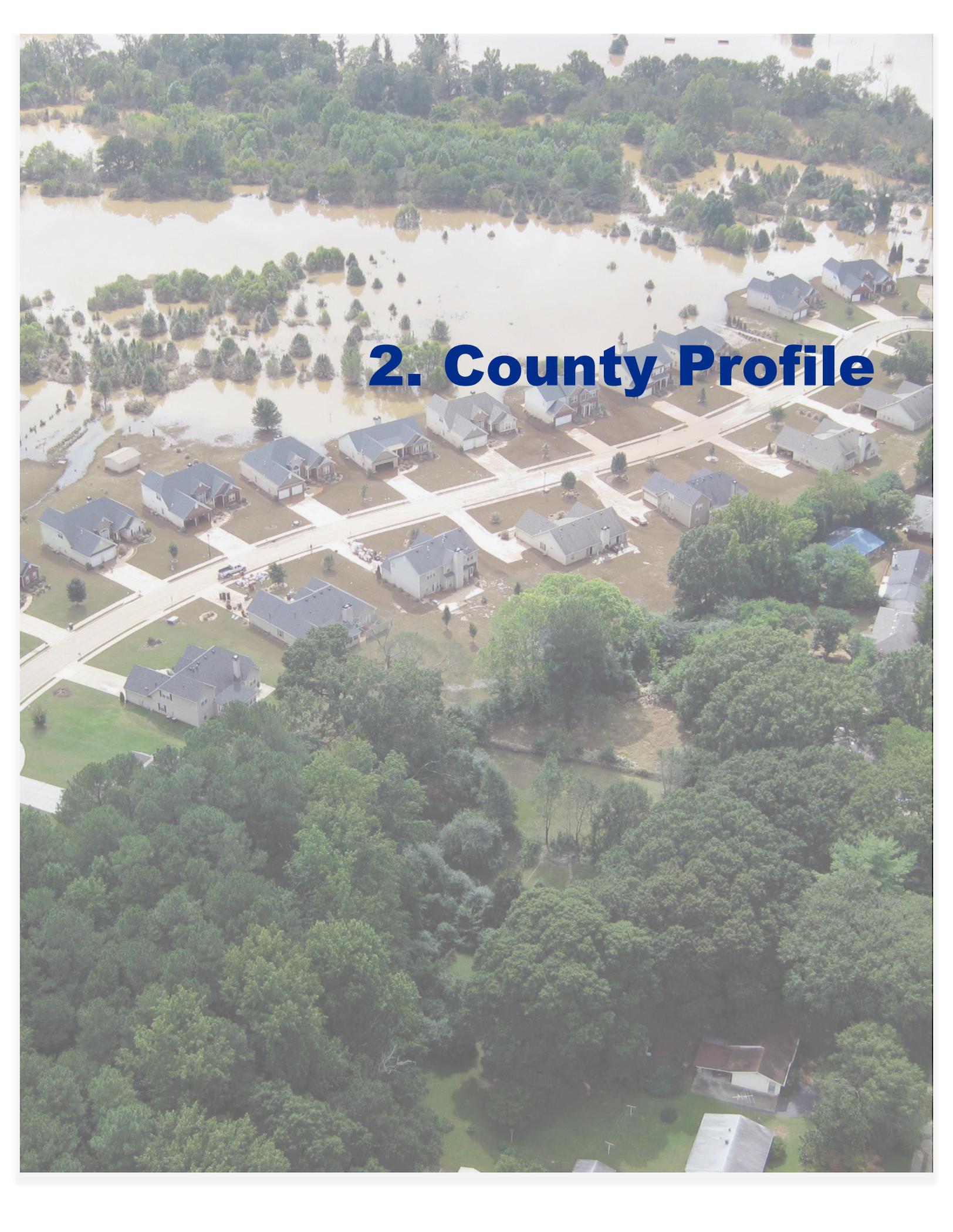


Figure 2. Greene County and Neighboring Counties

**Data, Assumptions, and Methodologies**

NCEM has assembled a wealth of data, resources, and technical expertise from state agencies, the private sector, and the University of North Carolina system to support the development of innovative best practice strategies.

Implementation of the proposed projects and actions described in this plan is subject to applicable federal, state, and local laws and regulations. Inclusion of a project or action in this plan does not guarantee that it will be eligible for recovery funding. However, proposed projects or actions may be eligible for state or federal funding or could be accomplished with municipal, nonprofit, or private investment.

An aerial photograph showing a residential neighborhood that has been severely flooded. The houses, which are mostly two-story structures with grey roofs, are surrounded by deep, brown, muddy water. The water has inundated the yards and streets, leaving only the roofs and some trees visible above the surface. The background shows a dense line of green trees, and the overall scene conveys a sense of significant environmental impact and property damage.

## 2. County Profile

## 2. County Profile

Greene County is located in eastern North Carolina between Wilson and Kinston. It is comprised of four census-designated places: the Town of Hookerton, Maury, the Town of Snow Hill, and the Town of Walstonburg. The current county population is 21,328. This section provides a profile of housing, economics, infrastructure, environment, and administration within Greene County.

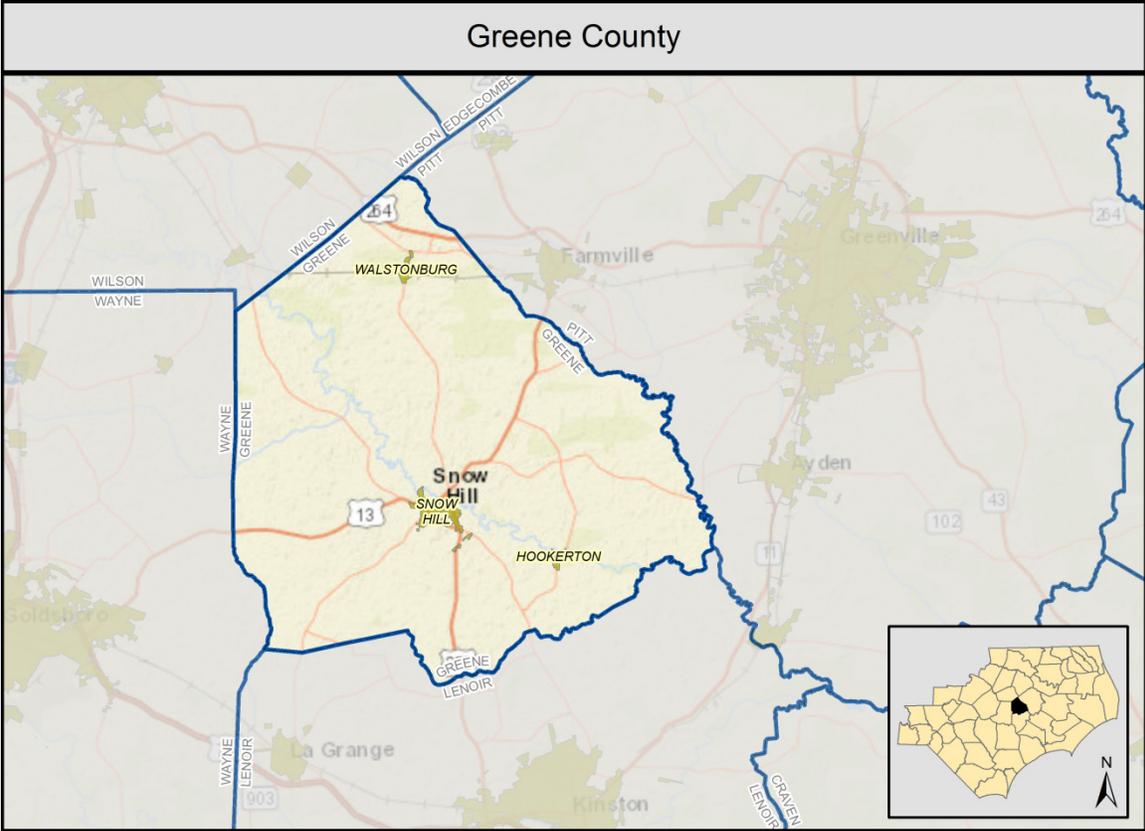


Figure 3. Greene Base Map

### Demographic Profile

Demographics for Greene County and census-designated places within the county are summarized and compared to statewide averages in this profile. The demographic data is from the 2000 Census, 2010 Census, and 2011-2015 American Community Survey five-year estimates.

### Population

Greene County has a population of 21,328. Snow Hill is the most populous place within Greene County with a population of 1,847 and Walstonburg is the least populous place with a population of 317.<sup>3</sup>

### Population Change (2000 to 2010)

The Greene County population grew by 12.6 percent between the 2000 and 2010 Census. In 2000 the population was 18,974 and in 2010 it was 21,362. The population increased by 2,388 people, which equates to

3 Source: US Census Bureau, American Community Survey 5-year Estimates (2011-2015), Table B01001, Sex by Age.

an annualized growth rate of 1.2 percent. North Carolina grew by 19 percent from 8,049,313 people in 2000 to 9,535,483 in 2010, which equates to an annualized growth rate of 1.7 percent.<sup>4</sup>

## Age

The median age in Greene County is 39, which compares to 42 for North Carolina. Within Greene County, the Hookerton population has the oldest median age, 51, and the Maury population has the youngest median age, 38.<sup>3</sup>

## Race and Ethnicity

Greene County is mostly White (65 percent) and African American (32 percent) with other races constituting the remaining 3 percent. In comparison, North Carolina is 70 percent White, 22 percent African American, 1 percent American Indian and Alaska Native, 3 percent Asian, less than 1 percent Native Hawaiian/Pacific Islander, 3 percent Some Other Race, and 2 percent Two or More Races. Refer to the table below.<sup>5</sup>

Within Greene County, Hookerton, Snow Hill, and Walstonburg are predominantly White while Maury is majority African American.

The Latino population in Greene County is 15 percent compared to 9 percent for North Carolina. Snow Hill has the largest Latino population (11 percent) while Walstonburg has less than 1 percent Latino population according to the census data.

Geography	White	Black or African American	American Indian and Alaska Native Alone	Asian	Native Hawaiian/Pacific Islander	Some Other Race	Two or More Races	Total Non-White
Hookerton town	64.8%	32.4%	0.0%	0.0%	0.0%	2.5%	0.3%	35.2%
Maury CDP	31.6%	55.5%	2.9%	0.0%	0.0%	5.8%	4.2%	68.4%
Snow Hill town	49.5%	45.4%	0.0%	0.3%	0.0%	4.4%	0.4%	50.5%
Walstonburg town	74.1%	21.5%	0.0%	0.0%	0.0%	0.6%	3.8%	25.9%
<b>Greene County</b>	64.8%	32.4%	0.0%	0.0%	0.0%	2.5%	0.3%	35.2%
<b>North Carolina</b>	<b>69.5%</b>	<b>21.5%</b>	<b>1.2%</b>	<b>2.5%</b>	<b>0.1%</b>	<b>3.0%</b>	<b>2.4%</b>	<b>30.5%</b>

Table 2. Greene County Race and Ethnicity

4 Source: Minnesota Population Center. National Historical Geographic Information System: Version 11.0 [Database]. Minneapolis: University of Minnesota. 2016. <http://doi.org/10.18128/D050.V11.0>. Census 2000/Census 2010 Time Series Tables Geographically Standardized

5 Source: US Census Bureau, American Community Survey 5-year Estimates (2011-2015), Table B02001, Race and Table B03002, Hispanic or Latino Origin by Race.

## Limited English Proficiency

Limited English Proficiency (LEP) is defined as populations 18 years or older that speak English less than very well. In Greene County, most of individuals identified as LEP speak Spanish while others speak Indo-Euro, Asian/Pacific, or other languages. Similarly, the primary language group for LEP individuals in North Carolina is Spanish. Within Greene County, Maury has the largest LEP population. The primary language group for LEP populations in Hookerton, Maury and Snow Hill is Spanish. Walstonburg does not have a LEP population according to census data.<sup>6</sup>

## Poverty

In Greene County, 26 percent of the population is below the poverty level compared to 17 percent of the North Carolina population. In Maury, 48 percent of the population is below the poverty level, 26 percent in Snow Hill, 23 percent in Hookerton, and 3 percent in Walstonburg.<sup>7</sup>

## Low and Moderate Income Individuals

In Greene County, 37 percent of the population is classified as low and moderate income (LMI) individuals based on the US Department of Housing and Urban Development's definition. In comparison, 39 percent of the North Carolina population is classified as LMI.<sup>8</sup>

## Median Household Income

The median household income of the population 25 to 64 years old is \$38,010 in Greene County and \$53,000 in North Carolina. Walstonburg has the highest median household income for this age group, \$56,012, and Snow Hill has the lowest: \$29,375. Median household income was not available for Hookerton or Maury.<sup>9</sup>

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6 Source: US Census Bureau, American Community Survey 5-year Estimates (2011-2015), Table B16004, Age by Language Spoken at Home by Ability to Speak English for the Population 5 Years and Over.

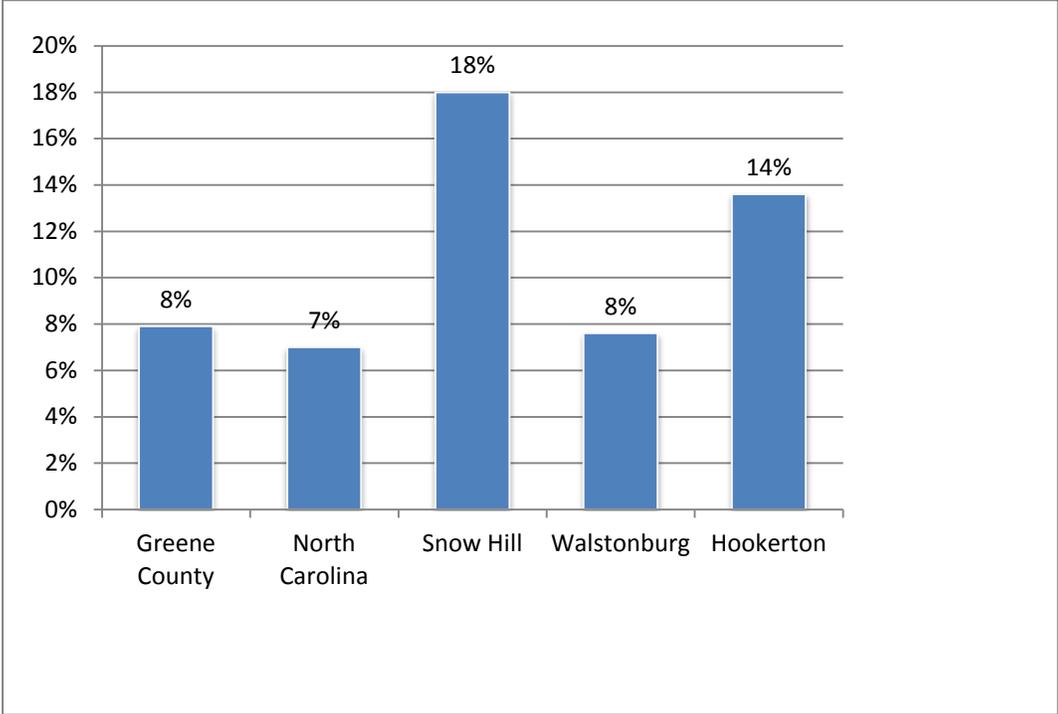
7 Source: US Census Bureau, American Community Survey 5-year Estimates (2011-2015), Table C17002, Ratio of Income to Poverty Level in the Past 12 Months.

8 Source: US Department of Housing and Urban Development, Estimate of Low and Moderate Income Individuals, <https://www.hudexchange.info/programs/acs-low-mod-summary-data/acs-low-mod-summary-data-block-groups-places/>

9 Source: US Census Bureau, American Community Survey 5-year Estimates (2011-2015), Table B19094, Median Household Income in the Past 12 Months.

**Zero Car Households<sup>10</sup>**

In Greene County, 8 percent of households do not have a vehicle available compared to 7 percent of North Carolina households. Within Greene County, Snow Hill has the highest percentage of households without access to a vehicle, 18 percent, while Maury has the lowest percentage: 0 percent. The residents of Snow Hill would have the greatest need for assistance in the event of an evacuation.



**Figure 4. Zero Car Households by Percentage**

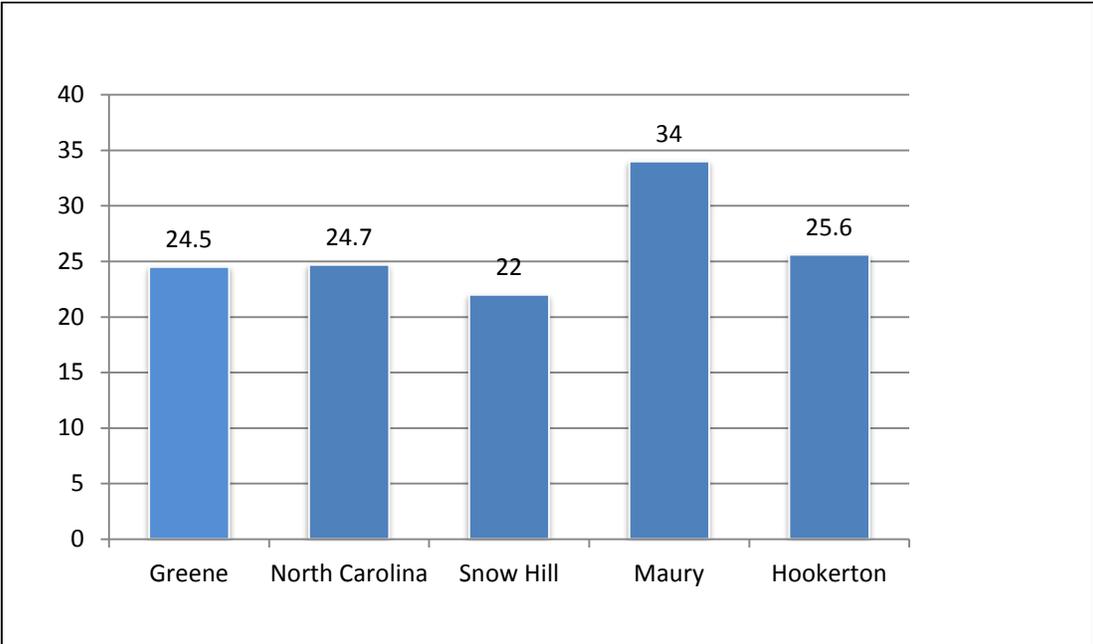
<sup>10</sup> Source: US Census Bureau, American Community Survey 5-year Estimates (2011-2015), Table B25044, Tenure by Vehicles Available.

**Commuting: Travel Time to Work, Means of Transportation**<sup>11</sup>

The majority of Greene County residents commute alone to work by vehicle, 81 percent, which is the same as North Carolina. Within Greene County, Snow Hill has the largest percentage of commuters commuting alone, 86 percent, and Hookerton has the least: 73 percent.

Maury has the largest percentage of residents commuting by public transportation: 12 percent. In comparison, 1 percent of North Carolina commuters use public transportation. Walstonburg has 7 percent of residents that commute by walking, bike, or motorcycle, which is greater than the North Carolina average of 2 percent.

The mean commute time to work for Greene County residents is 24.5 minutes. In comparison, the North Carolina mean commute time is 24.7 minutes. Within Greene County, Snow Hill has the shortest mean commute time at 22 minutes while Maury has the longest at 34 minutes.



**Figure 5. Mean Commute Time to Work in Minutes**

<sup>11</sup> Source: US Census Bureau, American Community Survey 5-year Estimates (2011-2015), Table B08301, Means of Transportation to Work and Table GCT0801, Mean Travel Time to Work of Workers 16 Years and Over Who Did Not Work at Home (Minutes).

**Housing Profile**<sup>12</sup>

Greene County has 8,152 housing units, 57 percent of which are single-family homes, 5 percent multi-family units, and 38 percent manufactured housing.

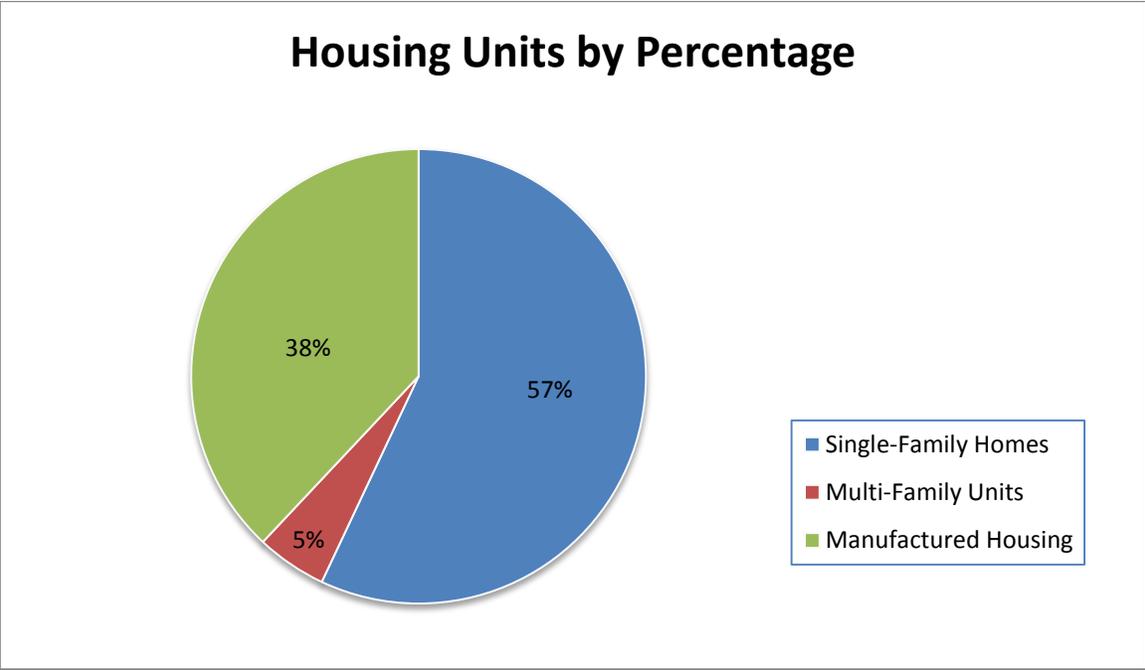


Figure 6. Housing Units by Percentage

In Greene County, 11 percent of housing units are vacant, which is less than the North Carolina average of 15 percent. Within Greene County, Hookerton has the largest percentage of vacant housing units, 22 percent, while Snow Hill has the least: 6 percent.

Of the occupied housing units, 70 percent are owner-occupied compared to 65 percent in North Carolina; 30 percent are renter-occupied compared to 35 percent in North Carolina.

The median housing value in Greene County is \$87,700. In comparison, the median housing value in North Carolina is \$140,000. Within Greene County, Snow Hill has the highest median housing value: \$101,400. Maury has the lowest median housing value: \$58,200.

According to the National Housing Preservation Database, Greene County has 408 affordable housing units. Most of the affordable housing is located within Snow Hill. Other units are located in Hookerton.

12 Sources: US Census Bureau, American Community Survey 5-year Estimates (2011-2015), Table B25002, Occupancy Status; Table B25003, Tenure; Table B25024 Units in Structure; Table B25077, Median Value (Dollars); National Housing Preservation Database

## Economic/Business Profile

Greene County has historically focused on agriculture, an industry that remains a primary economic driver today. However, the county has added jobs in other industries both related to and separate from agriculture, including trade, transportation, utilities, manufacturing, and mining.<sup>13</sup>

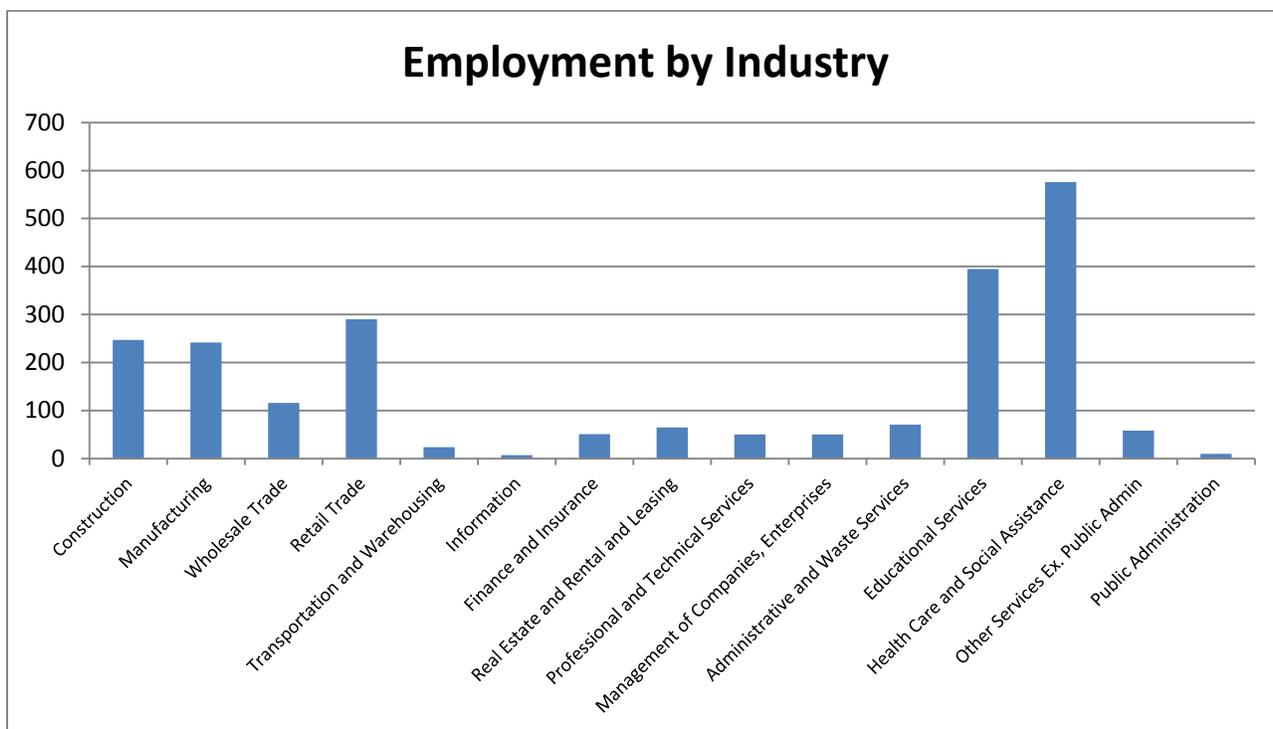


Figure 7. Employment by Industry

According to the US Census Bureau’s Longitudinal-Employer Household Dynamics Program, the largest concentrations of jobs within Greene County are in Snow Hill and areas immediately adjacent along US 258 and US 13.<sup>14</sup>

## Labor Force

The labor force of the population 16 years or over in Greene County is 54 percent, compared to 63 percent in North Carolina. Within Greene County, Walstonburg has the largest percentage of residents 16 years or over in the labor force, 64 percent, while Maury has the smallest: 22 percent.

The civilian unemployment rate in Greene County is 12 percent. In comparison, the North Carolina civilian unemployment rate is 9 percent. Within Greene County, Hookerton has the smallest civilian unemployment rate at 11 percent while Maury and Walstonburg have the largest: 17 percent.<sup>15</sup>

13 Source: AccessNC – North Carolina Department of Commerce, April 2017:  
<http://accessnc.nccommerce.com/DemoGraphicsReports/pdfs/countyProfile/NC/37079.pdf>

14 Source: US Census Bureau Longitudinal-Employer Household Dynamics Program

15 Source: US Census Bureau, American Community Survey 5-year Estimates (2011-2015), Table B23025, Employment Status For The Population 16 Years And Over

## Major Employers

The top ten employers in Greene County<sup>16</sup> represent the manufacturing, public administration, education and health service industries, and are listed in order of total employees.

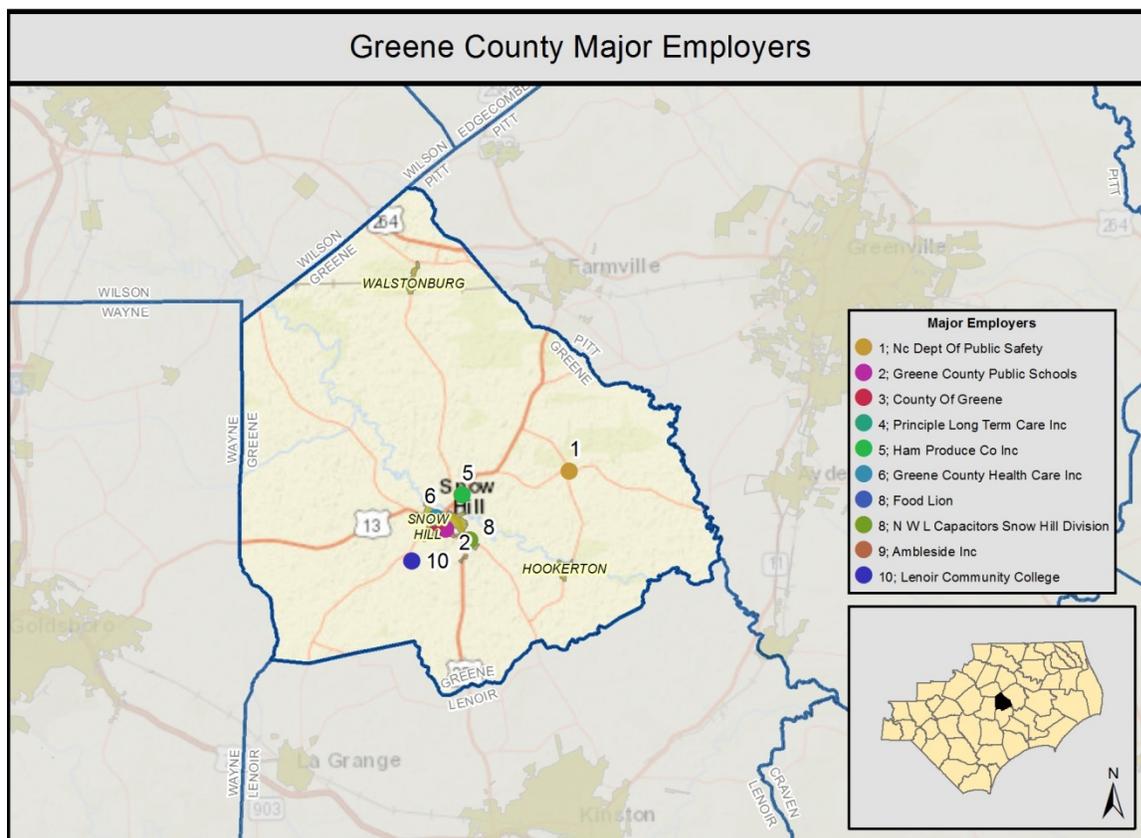


Figure 8. Major Employers by Number of Employees

## Economic Development<sup>17</sup>

There are two industrial parks located in Greene County – one in Walstonburg and the other in Snow Hill. Both industrial parks have room available for new tenants.

Greene County Economic Development Commission is an organization aimed at “encouraging new business, industrial development, tourism, and the agricultural, education, and cultural progress of Greene County.”

The Lenoir Community College, which has a campus in Snow Hill, offers a Small Business Center devoted to developing long-term strategic partnerships with business and industry leaders and assisting in small business start-ups and expansions. Other programs offered include employment, training, and job placement services through the Workforce Innovation and Opportunity Act.

Visit North Carolina, a unit of the public-private organization contracted to lead North Carolina's marketing programs, estimates that in 2015, Greene County had \$5.6 million in tourism expenditures, resulting in \$200,000 in local tax receipts.

<sup>16</sup> Sources: NC Department of Commerce

<sup>17</sup> Sources: Greene County Economic Development Commission, Lenoir Community College, and Visit North Carolina

## Infrastructure Profile

Transportation, health, education, water, and power infrastructure are summarized for Greene County in the sections that follow.

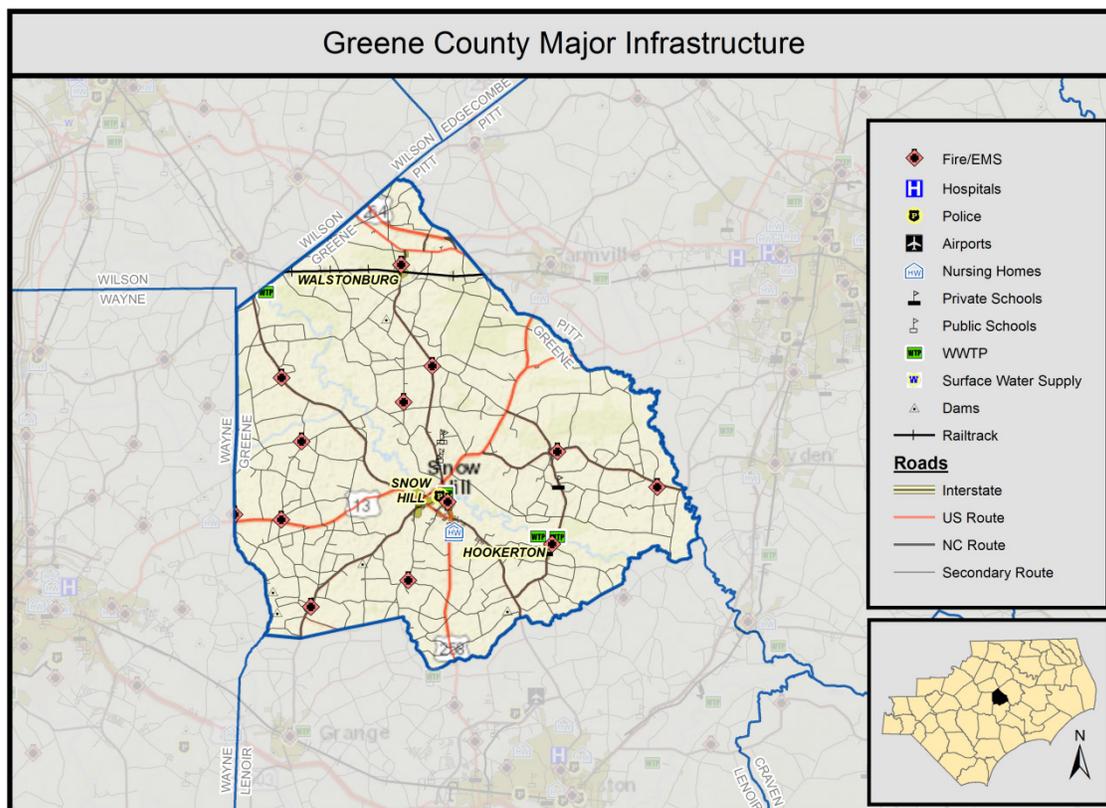


Figure 9. Greene County Major Infrastructure

## Transportation

Greene County is connected to the region by US 13 and US 258. US 13 traverses east-west through Greene County and connects to Goldsboro and Greenville. US 258 is a north-south highway connecting the county with US 264 in the north and Kinston to the south. The rail line in the northern area of the county runs through Walstonburg. There is no active airport in Greene County.

## Health

There are two medical centers in Snow Hill. The nearest hospitals are the Lenoir Memorial Hospital in Kinston and the Vidant Medical Center in Greenville.

## Education<sup>18</sup>

Greene County Schools administers two elementary, two middle, and two high schools. There is a satellite facility for the Lenoir Community College located in Snow Hill. Lenoir Community College is a member of the North Carolina Community College System.

18 Sources: Greene County Public Schools and Lenoir Community College

## Water

The Greene County Regional Water System operates 9 wells has three (3) 500,000 gallon elevated storage tanks, which provides drinking water to 3,700 customers. Wastewater is treated by municipal treatment facilities in Hookerton, Snow Hill, and Walstonburg.<sup>19</sup>

## Power

There are four solar farms located within Greene County. These power plants have a total summer capacity of 13.9 megawatts.<sup>20</sup>

## Environmental Profile

Water resources, natural areas, managed areas, biodiversity, wildlife habitat, and recreation are summarized for Greene County in the sections that follow.

### Water Resources

The Contentnea Creek flows east-west through the middle of Greene County. Wetlands are present along the Contentnea Creek and its tributaries. The most common wetland type in Greene County is pine flat.<sup>21</sup>

### Natural and Managed Areas

According to the NC Natural Heritage Program, there are no natural areas of high, very high, or exceptional value in Greene County. There are several managed areas under state ownership within Greene County. Managed areas are properties and easements where natural resource conservation is one of the current primary management goals, or are of conservation interest. These areas in Greene County include: properties owned by the NC Department of Agriculture that are a part of the Conservation Reserve Enhancement Program.<sup>21</sup>

### Biodiversity and Wildlife Habitat

The NC Natural Heritage Program produces a biodiversity and wildlife habitat assessment for the state. According to this assessment, areas with the highest rating for biodiversity and wildlife habitat are along Contentnea Creek and its tributaries. These areas rank between a 7 and 10, with 10 being the highest possible score. Other areas of the county rank 5 to 6. Most of the county is unrated.<sup>21</sup>

### Parks and Recreation

The Greene County Parks and Recreation Department maintains several parks and facilities in Greene County. The Greene County Sports Complex is located in Snow Hill. The park includes several baseball fields, soccer fields, and a pavilion. The recreation department also offers a neighborhood park in Snow Hill. The Town of Hookerton also operations a community park and community center in Hookerton.<sup>22</sup>

## Administrative Profile

The administrative capabilities of Greene County and the municipalities within the County are discussed in great detail within Section 4 of the Neuse River Regional Hazard Mitigation Plan 2015-2020. The assessment

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<sup>19</sup> Sources: NC Division of Water Resources, Local Water Supply Plans

<sup>20</sup> Source: US Department of Energy, US Energy Mapping System

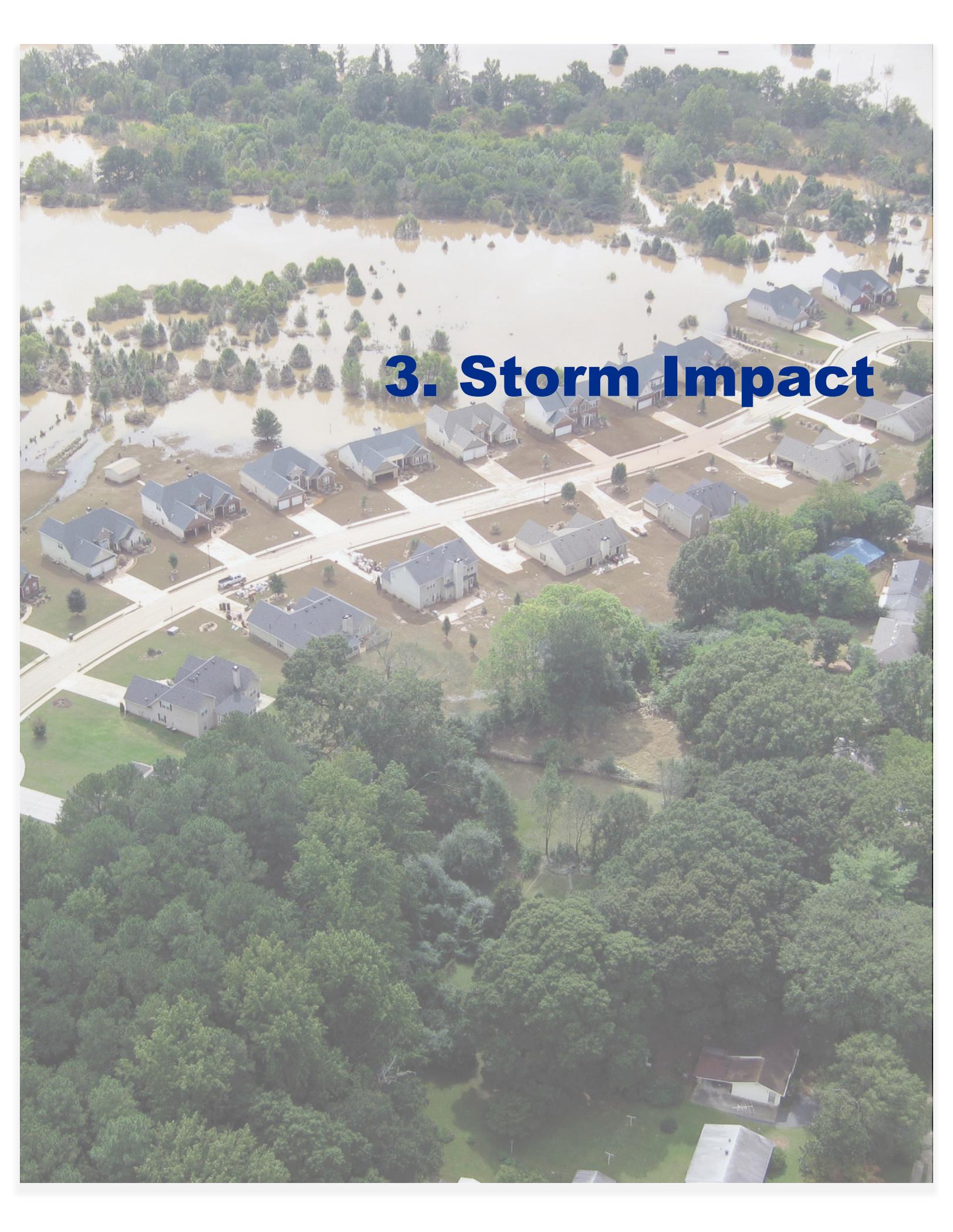
<sup>21</sup> Source: NC Natural Heritage Program

<sup>22</sup> Sources: Town of Tarboro Parks and Recreation Department

evaluates the capabilities of the County and municipalities to implement mitigation actions across the areas of administrative and technical capabilities, planning and regulatory capabilities, financial capabilities, educational and outreach capabilities and legal and political capabilities. Many more details about the capabilities of Greene County and the municipalities can be found in that document.

In terms of administrative capabilities, the County has many of the staff and the necessary plans, policies and procedures in place that are found in communities with “high” capabilities. Greene County has Emergency Services and Planning departments with the capacities to assist in implementing the resilience strategies proposed in this plan. Some of the other indicators of capability for the County include the following: Zoning Ordinance, Subdivision Regulations, Floodplain Management Ordinance, and Stormwater Management Plan. These plans, policies and procedures help ensure that new development in the County will be done in a responsible manner and in non-hazardous areas.

The Town of Hookerton and the Town of Snow Hill do not have Planning departments, but both have fire, EMS, Water and Sewer departments. Their capabilities are as robust as those at the County level, but they would still be considered to have “moderate” capabilities. For example, both participate in the Community Rating System which indicates their willingness to go above and beyond the minimum standard of the NFIP. Smaller communities and towns within Greene County have what would be considered “limited” capabilities and will likely need additional assistance in the administration and implementation of projects due to their limited staff capacity.

An aerial photograph showing a residential neighborhood severely impacted by flooding. The houses, which are mostly two-story structures with grey roofs, are surrounded by deep, brown floodwater. The water has inundated the yards and streets, leaving only the roofs and some trees visible above the surface. The surrounding landscape is a mix of green trees and flooded areas. The text "3. Storm Impact" is overlaid in the center of the image in a large, bold, blue font.

# 3. Storm Impact

### 3. Storm Impact

#### Rainfall Summary

Hurricane Matthew officially made landfall as a Category 1 storm southeast of McClellanville, South Carolina early on October 8, 2016. The track and speed of the storm resulted in nearly two days of heavy precipitation over much of North Carolina that caused major flooding in parts of the eastern Piedmont and Coastal Plain. The storm produced widespread rainfall of 3-8 inches in the central regions of North Carolina and 8 to more than 15 inches in parts of eastern North Carolina. A number of locations received all-time record, one-day rainfall amounts. Many locations in the Coastal Plain of North Carolina had received above normal rainfall in the month of September leading to wet antecedent conditions prior to Hurricane Matthew. Total rainfall depth for Greene County is highlighted graphically in the figure below.

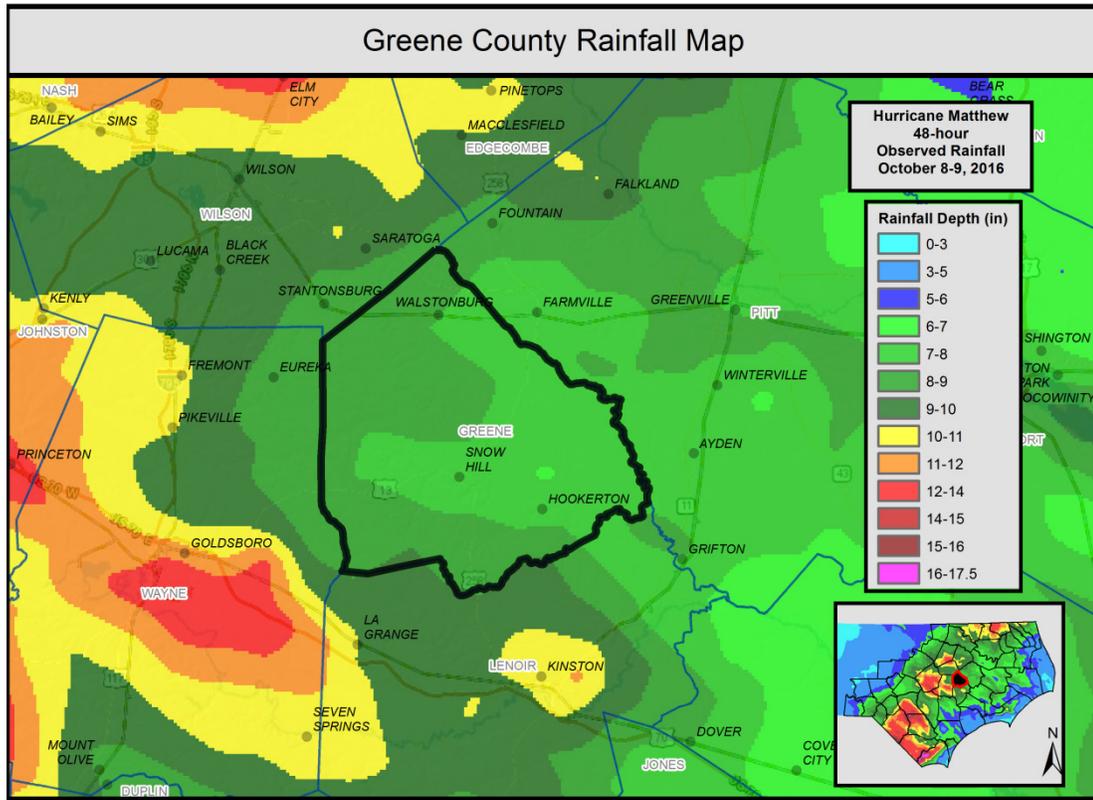


Figure 10. 48-hour Observed Rainfall Depth (October 8-9, 2016)

#### Riverine Flooding Summary

USGS documented stream gage data in the report “Preliminary Peak Stage and Streamflow Data at Selected Stream gaging Stations in North Carolina and South Carolina for Flooding Following Hurricane Matthew, October 2016”. Stream gage data from the USGS report for Greene County and nearby gages is summarized in Table 3.

USGS Gage	County	River Name and Location	Drainage Area (sq mi)	Peak Matthew Elevation (ft)	Previous Record (ft)
02091500	Greene	Contentnea Creek at Hookerton, NC	733.0	24.15	28.28
02091000	Greene	Nahunta Swamp near Shine, NC	80.4	17.92	21.00

Table 3. Greene County USGS Stream gage Data

The USGS data validates what was experienced in the county. Details of impacts categorized under housing, economic, infrastructure, and environment are included in the following sub-sections.

### Housing

According to Individual Assistance claims as of March 2017, there were 579 impacted houses, totaling \$657,000 in claims, in Greene County as a result of Hurricane Matthew. It should be noted that additional claims from Hurricane Matthew may still be pending, so this number may not reflect the final claims data from the event. This also does not take into account other historic impacts to the county or other areas of concern for flooding that may not have occurred during this storm. With that in mind, the planning team attempted to take a comprehensive look at both Hurricane Matthew impacts and any historic impacts that local officials felt would validate areas that should be considered at high risk to future flooding.

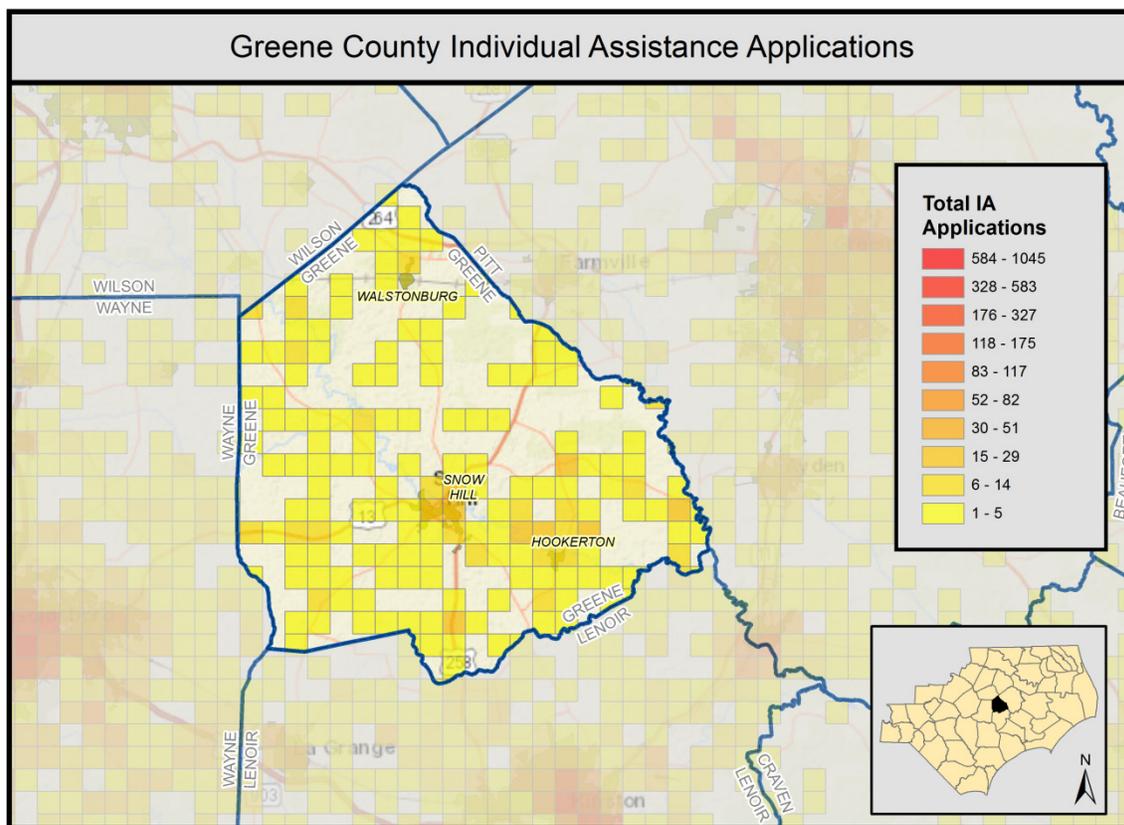


Figure 11. Greene County IA Applications by Area

The bullets below summarize some of the major impacts to housing identified by local officials in multiple meetings.

- **Homes Flooded from Hurricane Matthew:** There are many flood-prone properties in the county that experienced flooding during Hurricane Matthew as well as during previous storm events. Based on historic flooding information, these communities include a significant amount of repetitive loss properties. While flooded housing occurred throughout the county, specific areas noted as being impacted are:
  - Widespread residential impacts to areas along Contentnea Creek, particularly in Towns of Snow Hill and Hookerton

- Community along Lilly Pad Road and Loop Road
- Mobile Home Park at Four Way Road and Churchill Road
- Community north of Rainbow Creek and W. Main Street

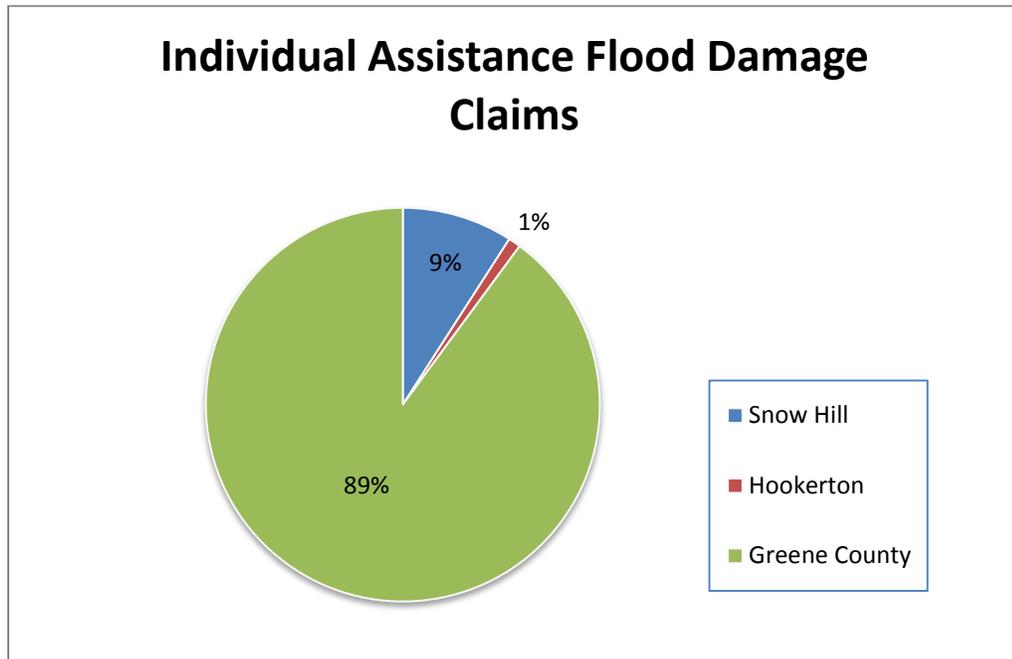


Figure 12. IA Flood Damage Claims by Area

- **Limited Temporary Housing Options:** A limited supply of rental housing was available in Greene County before Hurricane Matthew. The storm further exacerbated this problem. In addition, there are no existing hotels or motels in Greene County, which further limits temporary housing options.
- **Shortage of Resilient Housing Units:** There is a shortage of housing in Greene County, which means that a wait list has been implemented for those wishing to access these units. There is also a specific need for affordable senior citizen housing. Because these individuals may be limited in mobility and face challenges in relocating after a storm-induced flooding, there is additional incentive to ensure their homes are resilient against future events.
- **Displaced Residents and Tax Base Impacts:** County officials noted many families that remain displaced. There is significant concern for population loss as residents are unable to return to their homes and eventually relocate in other towns or counties thereby depleting the local tax base. This limits the services and effectiveness of municipalities and Greene County.

### Economics / Business / Jobs

Hurricane Matthew impacted the local economy of Greene County. The bullets below summarize some of the impacts to the economy/businesses/jobs that were identified by local officials from the event.

- **Crop Losses:** Over \$8 million of lost crops were estimated to Greene County farmers.
- **Access to farms:** Commercial livestock is an important resource to the county. Access to farms was affected by flooding. The ability to feed, protect, or provide supplies to livestock was limited due to flooding or washed out roads.

- **Hog Lagoons:** Several hog lagoons were flooded during the storm. Cisco Lane and North Hookerton lagoons were reported with flood damage. Cisco Lane has been inactive for several years.
- **Direct Impacts to Businesses:** Many businesses scattered throughout Greene County were damaged during Hurricane Matthew and were unable to operate for a time thereafter. This damage appears more concentrated to businesses located near Contentnea Creek and floodplain or in higher density areas, such as in the Towns of Snow Hill and Hookerton. The most notable of these impacts occurred at the Food Lion in Snow Hill that lost power, resulting in a loss of supplies, and had to close for an extended period of time. Similar impacts occurred to other grocery stores and restaurants in the area.
- **Indirect Impacts to Businesses:** The majority of the areas in Greene County, are struggling to attract new businesses. This challenge is due in part to residual damage to the area from Hurricane Matthew. Local officials say that there is a reluctance to rebuild. Officials stated that this area could benefit from programs to increase commercial and industrial development and create job opportunities.

### Infrastructure

According to Public Assistance claims, which are often closely tied to infrastructure, as of March 2017 there were \$48,954 of claims in Greene County as a result of Hurricane Matthew. It should be noted that additional claims from Hurricane Matthew may still be pending, so this number may not reflect the final claims data from the event.

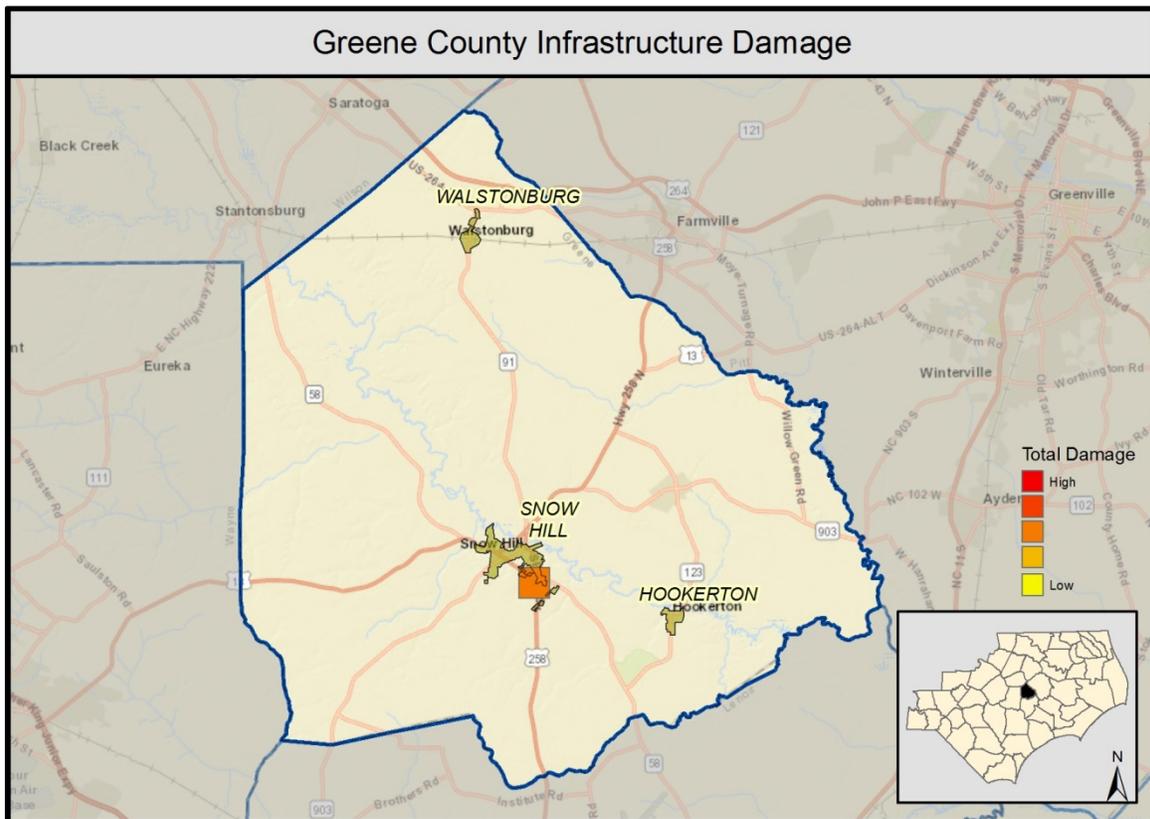


Figure 13. Greene County Infrastructure Damage

County infrastructure was one of the greatest areas of concern in the wake of Hurricane Matthew as there were several types of infrastructure that were damaged in multiple locations. The bullets below summarize some of the major impacts to infrastructure from Hurricane Matthew identified by local officials.

- **Damages to Transportation Infrastructure:** A number of roads and bridges were flooded/overtopped during Hurricane Matthew. In some areas of the County, water rose so quickly that truck drivers attempting to deliver food and supplies had to be rescued by emergency personnel. The major transportation infrastructure that was closed due to flooding included:
  - Four Way Road
  - Lane Road
  - Morris BBQ Road
  - Fort Run Road
  - NC 58 north
  - Hugo Road
  - Sheppard Ferry Road
  - Beaman Old Creek Road
  - Jones Farm Road
  - Bridge on W. Main Street at Rainbow Creek
  - Sand Pit Road
- **Water lines:** Several water lines were noted as damaged due to flooding and associated impacts.
  - Water lines along Lane Road, Morris BBQ Road, and Fort Run Road
  - South of Hookerton
- Water Tower In Hookerton (lost power) and has no back-up generator
- Waste Water Treatment Plant in Hookerton was breached by flood waters and one of the intake pipes that runs over Contentnea Creek was damaged
- Three Lift Stations

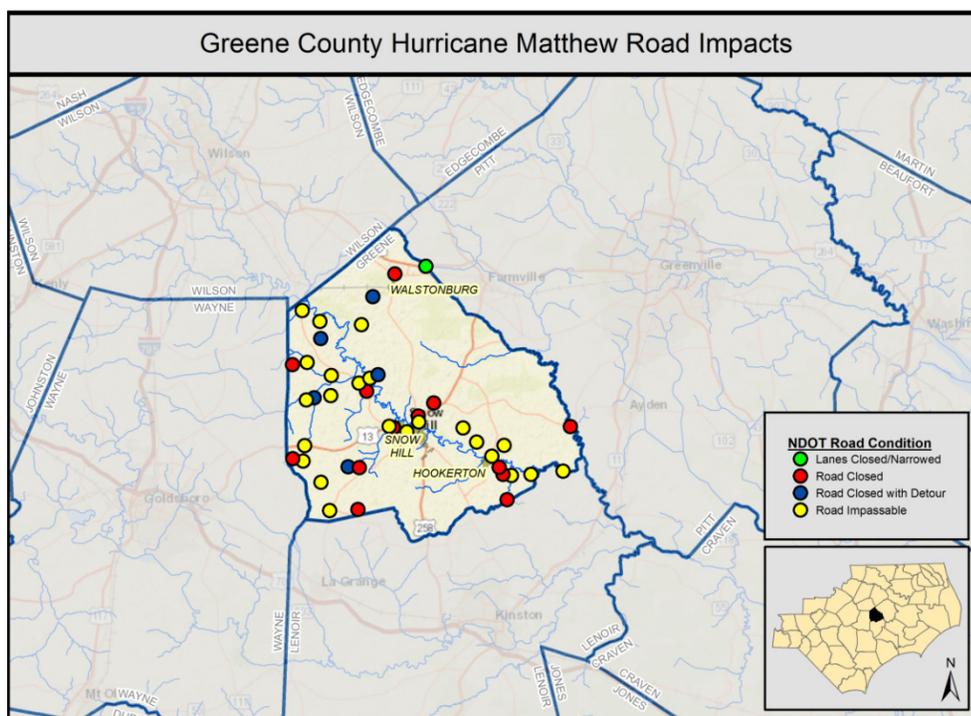
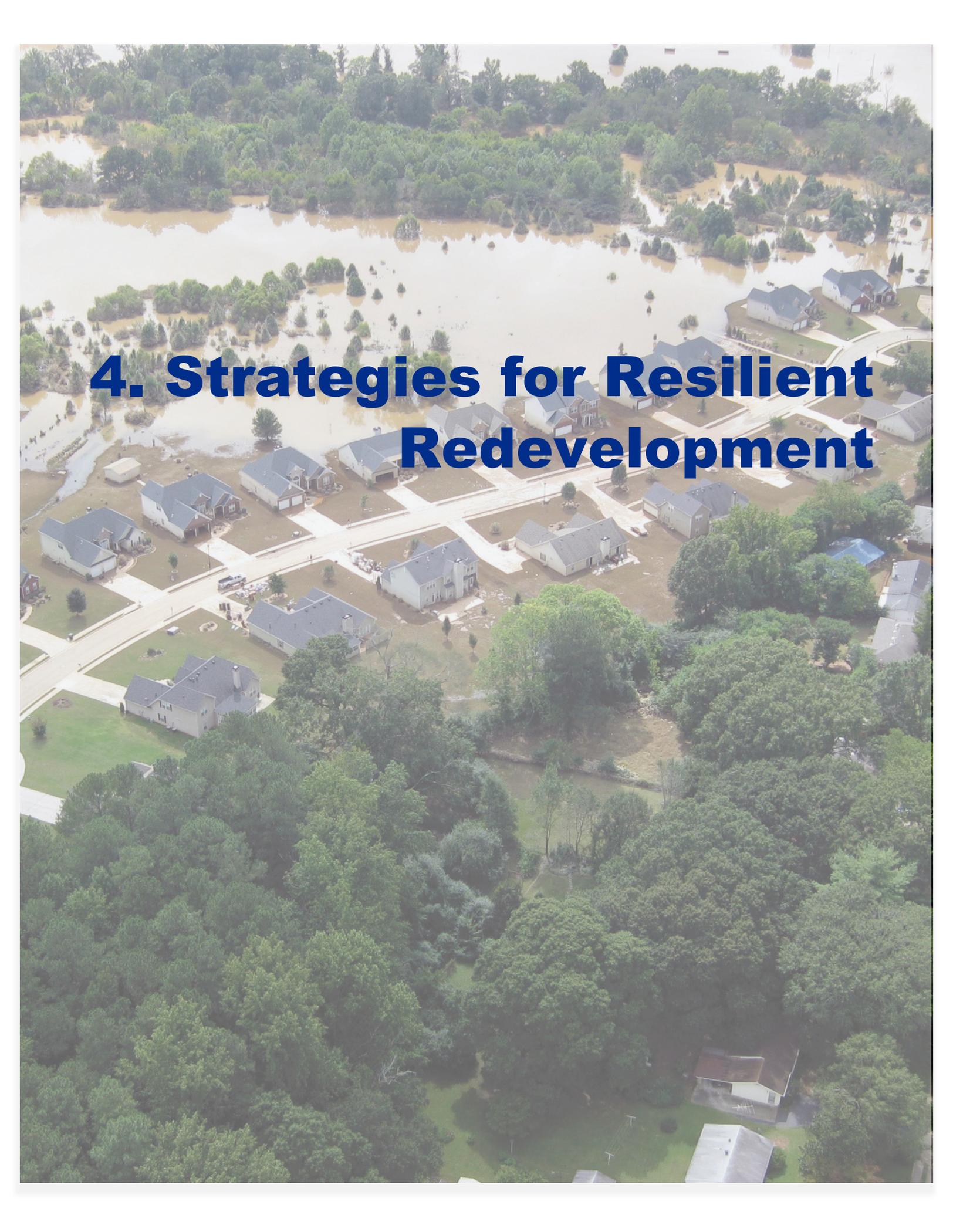


Figure 14. Impacted NCDOT Structures in Greene County

## Ecosystems / Environment

Hurricane Matthew had negative impacts on the natural environment in Greene County. A summary of some of the more significant issues and damages as a result of the storm are summarized below:

- **Natural Debris Buildup:** Several low-water bridges across the county experienced a significant amount of debris buildup in streams. This debris was often comprised of downed trees and other organic material. This debris was then trapped underneath bridges and in culverts, inhibiting the flow of the river and resulting in flooding.
- **Access to Waterways:** Easy access to waterways by creating a riparian buffer or greenway can facilitate regular maintenance, faster clean-up, and additional storage capacity of the floodplain, thus reducing the effects of flooding.
- **Runoff from Adjacent Farmlands:** Agricultural use of pesticides and herbicides may attribute to the pollutants in floodwaters. Greene County is rural with abundant farmland operations.



**4. Strategies for Resilient  
Redevelopment**

## 4. Strategies for Resilient Redevelopment

This section provides details about the resilience and revitalization strategies and actions identified in Greene County. These actions were identified and refined during three public meetings with local officials and county residents held in March and April 2017. The actions are tied to impacts from Hurricane Matthew and organized by the pillars of housing, economic development, infrastructure and environment. In addition to the public meetings, frequent coordination calls with County officials and data gathered from state agencies and organizations were utilized to formulate the actions listed below.

Meeting 1 was designed to introduce the community and County points of contact to the Resilient Redevelopment Planning process and goals. This meeting allowed the planning team to capture areas within the county that were damaged during Hurricane Matthew and to hear what potential mitigation actions had already been considered. Draft resilience actions were then presented at Meeting 2 of the planning process. This was done to garner general buy-in on the draft actions from the County-level planning teams and residents. More details on the actions were collected between Meetings 2 and 3 through research and follow-up phone calls and emails with the primary points of contact. Meeting 3 provided the opportunity to collect and finalize details for the draft actions. Meeting 4, scheduled in early May 2017, allowed the County points of contact to rank the identified actions, group them into High, Medium, and Low Priorities, and to approve their inclusion in the plan.

Pillar	Project/Action Count
Housing	6
Economic Development	5
Infrastructure	18
Environment	5
<b>Grand Total</b>	<b>34</b>

**Table 4. Greene County Summary of Projects by Pillar**

The following table is ordered by the rankings and priorities provided by Greene County during Meeting 4:

Pillar	Action Name	Priority	Overall Ranking
Infrastructure	Infrastructure Action 1: Backup Generators	High	1
Infrastructure	Infrastructure Action 2: Relocate Generator for Greene County Courthouse	High	2
Infrastructure	Infrastructure Action 3: Implement Flood Warning System	High	3
Infrastructure	Infrastructure Action 4: Develop Blueway Plan for Contentnea Creek	High	4
Infrastructure	Infrastructure Action 5: Stormwater Management Plans for Hookerton and Snow Hill	High	5
Housing	Housing Action 1: Infill Development	High	6
Infrastructure	Infrastructure Action 6: Sewer Line Elevation and Pedestrian Bridge	High	7
Housing	Housing Action 2: Housing Development in Hookerton	High	8
Infrastructure	Infrastructure Action 7: Roof Damage Repair at County Courthouse	High	9

<b>Pillar</b>	<b>Action Name</b>	<b>Priority</b>	<b>Overall Ranking</b>
Environment	Environment Action 1: Stream and Drainage Clean Up	Medium	10
Environment	Environment Action 2: Expand Beaver Management Program	Medium	11
Economic Development	Economic Development Action 1: Assist Non-Profits with Staffing	Medium	12
Infrastructure	Infrastructure Action 8: Implement Tornado Warning System	Medium	13
Environment	Environment Action 3: Park, Open Space, and Rural Lands System Plan	Medium	14
Housing	Housing Action 3: Increase Housing Options	Medium	15
Housing	Housing Action 4: Develop Senior Housing Options	Medium	16
Infrastructure	Infrastructure Action 9: Stormwater Retrofits	Medium	17
Infrastructure	Infrastructure Action 10: Harden Hookerton Wastewater Treatment Plant	Low	18
Infrastructure	Infrastructure Action 11: Create New Emergency Operations Center	Low	19
Infrastructure	Infrastructure Action 12: Expand Capacity of Animal Shelter	Low	20
Infrastructure	Infrastructure Action 13: Boat Launch Amenities	Low	21
Housing	Housing Action 5: Conduct Housing Study	Low	22
Infrastructure	Infrastructure Action 14: Repair Damaged Stormwater Infrastructure	Low	23
Infrastructure	Infrastructure Action 15: Construct Greenways in Hookerton	Low	24
Infrastructure	Infrastructure Action 16: Transportation Infrastructure Assessment	Low	25
Infrastructure	Infrastructure Action 17: Assess Expansion of Sewer Service	Low	26
Economic Development	Economic Development Action 2: Utilize Greenhouses in Hookerton	Low	27
Environment	Environment Action 4: Riparian Buffer Program	Low	28
Economic Development	Economic Development Action 3: Expand Small Farms Program	Low	29
Housing	Housing Action 6: Develop Temporary Housing Options	Low	30
Economic Development	Economic Development Action 4: Develop Small Business Program	Low	31
Economic Development	Economic Development Action 5: Establish Jobs Training Program	Low	32
Infrastructure	Infrastructure Action 18: Widen NC 13 to Four Lanes from Snow Hill to Greenville	Low	33
Environment	Environment Action 5: Turn Swine Lagoons to Methane Gas	Low	34

Table 5. Projects by Rank

On the following pages, we have organized the projects and actions by pillar. Within each pillar, the projects are grouped by county priority. Please note that maps are provided for all projects that have a specific location within the county. Projects without maps are county-wide projects that will benefit citizens throughout the county.

## Housing Strategies

### High Priority Housing Strategies

Pillar	Action Name	Priority	Overall Ranking
Housing	Housing Action 1: Infill Development	High	6
Housing	Housing Action 2: Housing Development in Hookerton	High	8

Table 6. Greene High Priority Housing Summary

These projects represent the housing strategies that Greene County indicated are the highest priority to address. Additional detail on the projects can be found below:

- Infill Development:** This project would identify vacant lots or tracts of land and dilapidated housing that need repairs to provide new housing options within the existing communities (such as Snow Hill and Hookerton). Focusing on infill provides access to city services and reduces costs associated with the need for expanding infrastructure. This project would involve working with non-governmental organizations, such as Habitat for Humanity or the Baptist Men's Group to construct new housing and/or repair existing housing to benefit relocated individuals.

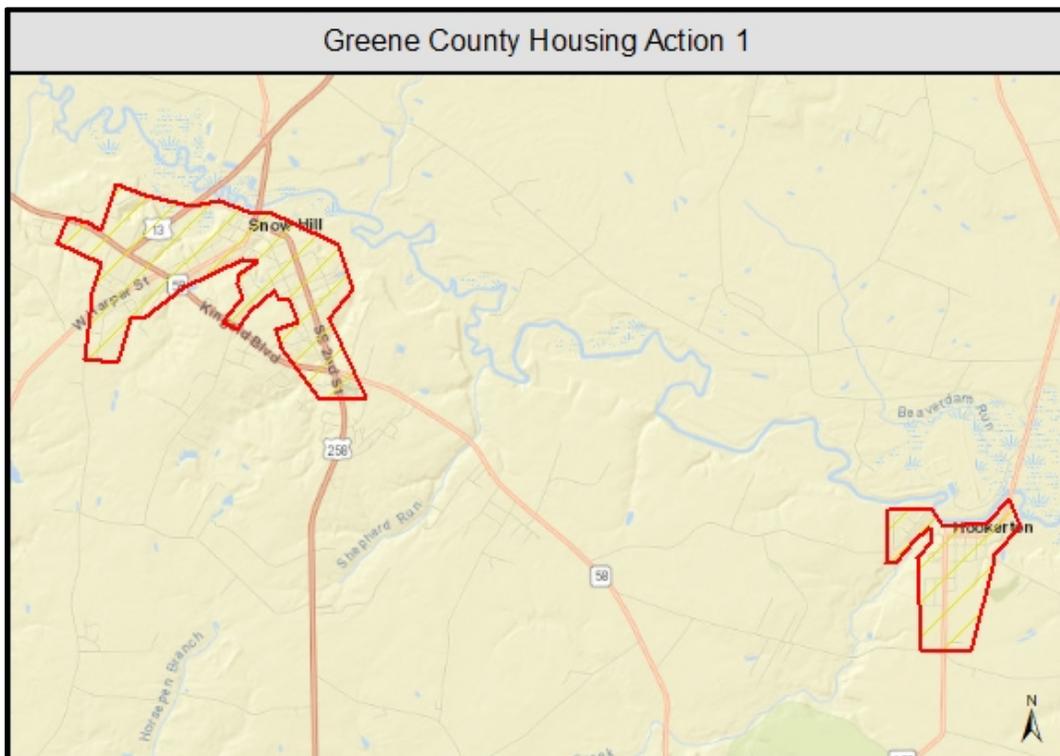


Figure 15. Housing Action 1: Infill Development

## Housing Action 1: Infill Development

**County:** Greene

**Priority Grouping:** High Priority

**Priority Ranking:** 6

**Project Timeframe:** 1-2 years

**Location:** Snow Hill, Hookerton

**Project Summary:** Infill Development: identify vacant lots or tracts of land and DETERIORATED housing that needs repairs to provide new housing options within the existing communities that provide access to city services and reduce costs associated with the need for expanding infrastructure. This project would involve working with non-governmental organizations, such as Habitat for Humanity or the Baptist Men's Group to construct new housing and or repair existing housing to benefit relocates.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	Many homes damaged by Hurricane Matthew are older and do not meet current building standards; however residents do not want to apply for buyouts because they cannot afford to relocate within Greene County due to the lack of housing options.	N/A
Consistent with existing plans (describe points of intersection/departure)	Yes	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	Expanding housing options in Greene County would help keep relocates in Greene County for the long-term which would help the county and local governments maintain and grow their population and local tax base.	Agree
For how long will this solution be effective?	More than 50 years	Agree
How effective is the risk reduction?	Unknown	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	0	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	Less than 25%	Agree
What impacts to the environment of the county will result from this project?	N/A	N/A
What is the capability of the local government to administer this project?	High	Agree
What is the financial range of this project?	\$251K - \$500K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

- **Housing Development in Hookerton:** This project would develop a property adjacent to the Town of Hookerton (parcel ID: 0300084) for residential housing. Elements of the project would include acquisition of the site, installation of utilities and infrastructure, and subdivision of lots for residential housing. Previous negotiations and feasibility studies have been conducted. This project would develop housing to provide relocation options to families moving post-buyout and help keep people in Greene County.



Figure 16. Housing Action 2: Housing Development in Hookerton

## Housing Action 2: Housing Development in Hookerton

**County:** Greene

**Priority Grouping:** High Priority

**Priority Ranking:** 8

**Project Timeframe:** 1 to 2 years

**Location:** Hookerton

**Project Summary:** Housing Development Project in Hookerton: This project would develop a property adjacent to the Town of Hookerton (parcel ID: 0300084) for residential housing. Elements of the project would include acquisition of the site, installation of utilities and infrastructure, and subdivision of lots for residential housing. Previous negotiations and feasibility studies have been conducted.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	This project will provide new housing options for people that need to relocate. Many of the people needing to relocate have expressed concerns over the lack of housing in Greene County for them to move to.	N/A
Consistent with existing plans (describe points of intersection/departure)	Yes. The Town of Hookerton had previously developed a housing plan for this site and applied for a grant to assist with the infrastructure costs. However they were not successful in receiving the grant funding.	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	This project will help address the need for more housing options in Greene County. This in turn will help keep people from moving out of Greene County. It will also increase the local tax base for the County and the Town of Hookerton.	Agree
For how long will this solution be effective?	More than 50 years	Agree
How effective is the risk reduction?	<50 year event	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	0	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Low to moderate confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	None	N/A
What is the capability of the local government to administer this project?	Medium	Agree
What is the financial range of this project?	\$1M+	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	Local	Agree

### Medium Priority Housing Strategies

Pillar	Action Name	Priority	Overall Ranking
Housing	Housing Action 3: Increase Housing Options	Medium	15
Housing	Housing Action 4: Develop Senior Housing Options	Medium	16

Table 7. Greene Medium Priority Housing Summary

These two projects represent the housing strategies that Greene County indicated are of a medium priority to address. Additional detail on the projects can be found below:

- **Increase Housing Options:** This project would look at funding options to offset development costs, such as the purchase of land, infrastructure, investments, and relocation assistance to help encourage people to stay in Greene County.
- **This is a county-wide project, so no project area map has been included.**

## Housing Action 3: Increase Housing Options

**County:** Greene

**Priority Grouping:** Medium Priority

**Priority Ranking:** 15

**Project Timeframe:** 1-3 years

**Location:** Countywide

**Project Summary:** Increase Housing Options: This project includes funding to identify suitable sites and development partners for new housing that would include a diverse range of cost points to reflect the housing needs of all income levels. Funding could also be used to offset development costs (e.g., funding for purchase of land, infrastructure investments, and relocation assistance to create an incentive for people to stay in Greene County).

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	Many homes damaged by Hurricane Matthew are older and do not meet current building standards; however residents do not want to apply for buyouts because they cannot afford to relocate within Greene County due to the lack of housing options.	N/A
Consistent with existing plans (describe points of intersection/departure)	Yes	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	Expanding housing options in Greene County would help keep relocates in Greene County for the long-term which would help the county and local governments maintain and grow their population and local tax base.	Agree
For how long will this solution be effective?	More than 50 years	Agree
How effective is the risk reduction?	<50 year event	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	0	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	N/A	N/A
What is the capability of the local government to administer this project?	High	Agree
What is the financial range of this project?	\$1M+	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

- **Develop Senior Housing Options:** The purpose of this project is to develop housing options that meet the needs of senior citizens. This project would help retain residents in the county that are older and currently must move outside of Greene County to find more senior-oriented housing options that address mobility concerns and the need for assisted living. The project would provide funding for the County to partner with a non-governmental organization focused on senior housing. Opportunities for senior housing include redevelopment opportunities, apartments, and assisted living facilities.
- **This is a county-wide project, so no project area map has been included.**

## Housing Action 4: Develop Senior Housing Options

**County:** Greene

**Priority Grouping:** Medium Priority

**Priority Ranking:** 16

**Project Timeframe:** 2-3 years

**Location:** Countywide

**Project Summary:** The purpose of this project is to develop housing options that meet the needs of senior citizens. This project would help retain older residents that currently must move outside of Greene County to find more senior-oriented housing options that address mobility concerns and the need for assisted living. The project would provide funding to partner with a non-governmental organization focused on senior housing. Opportunities for senior housing could include redevelopment opportunities, apartments, or assisted living facilities. This project could include partnering with, or helping to establish an organization that is focused on senior housing issues.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	Many seniors in Greene County have a desire to stay in their community near family, friends and established networks (i.e. doctors care providers etc.). However, they may need to relocate due to damage from the storm but lack reasonable options within Greene County to stay there.	N/A
Consistent with existing plans (describe points of intersection/departure)	Yes	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	Expanding housing options would help keep relocatees in Greene County .	Agree
For how long will this solution be effective?	More than 50 years	Agree
How effective is the risk reduction?	Unknown	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	0	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	N/A	N/A
What is the capability of the local government to administer this project?	High	Agree
What is the financial range of this project?	\$1M+	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

**Low Priority Housing Strategies**

Pillar	Action Name	Priority	Overall Ranking
Housing	Housing Action 5: Conduct Housing Study	Low	22
Housing	Housing Action 6: Develop Temporary Housing Options	Low	30

**Table 8. Greene Low Priority Housing Summary**

These two projects represent the housing strategies that Greene County indicated are of a lower priority to address. Additional detail on the projects can be found below:

- **Conduct Housing Study:** This project would involve conducting a study of Greene County to determine gaps in housing needs. Such a study would allow the County to develop programs and policies to help address unmet housing needs.
- **This is a county-wide project, so no project area map has been included.**

## Housing Action 5: Conduct Housing Study

**County:** Greene

**Priority Grouping:** Low Priority

**Priority Ranking:** 22

**Project Timeframe:** 1 year

**Location:** Countywide

**Project Summary:** Conduct housing study to determine gaps in housing needs in the county. The results of this study will help the County develop policies and plans to help address the gaps in housing needs, as well as develop and construct housing that will fill in the gaps.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	Many homes damaged by Hurricane Matthew are older and do not meet current building standards; however residents do not want to apply for buyouts because they cannot afford to relocate within Greene County due to the lack of housing options.	N/A
Consistent with existing plans (describe points of intersection/departure)	Yes	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	A better understanding of local housing issues will allow the County to help direct attention on the most pressing housing needs and develop policies and plans to better address the biggest issues. Improving housing issues will help the county retain and attract residents.	Agree
For how long will this solution be effective?	More than 50 years	Agree
How effective is the risk reduction?	Unknown	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	0	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	N/A	N/A
What is the capability of the local government to administer this project?	High	Agree
What is the financial range of this project?	\$0- \$50K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

- **Develop Temporary Housing Options:** This project would develop temporary housing options for displaced residents. The county lacks any hotel or motel space that typically provides temporary residence for displaced residents while repairs or new housing is located. The goal of this project to help provide temporary housing that could be located at the same housing site that was damaged. This would be similar to the FEMA-style mobile homes that were brought in to provide temporary housing after Hurricane Floyd.
- **This is a county-wide project, so no project area map has been included.**

## Housing Action 6: Develop Temporary Housing Options

**County:** Greene

**Priority Grouping:** Low Priority

**Priority Ranking:** 30

**Project Timeframe:** 0-2 years

**Location:** Countywide

**Project Summary:** The goal of this project to help provide temporary housing that could be located at the same housing site that was damaged. This would be similar to the FEMA-style mobile homes that were brought in to provide temporary housing after Hurricane Floyd.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	As a result of Hurricane Matthew many residents that were displaced have no options for temporary housing while a decision is being made on whether to repair or relocate to new permanent housing. This has forced them to find temporary housing outside of Greene County.	N/A
Consistent with existing plans (describe points of intersection/departure)	Yes	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	Temporary housing for mobile homes could be used to help increase tourism when not in use for temporary housing. A site designed for temporary trailers could be turned into a campground to attract visitors to the area when not in use by local residents.	Agree
For how long will this solution be effective?	More than 50 years	Agree
How effective is the risk reduction?	Unknown	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	0	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Minimal to low confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	N/A	N/A
What is the capability of the local government to administer this project?	Medium	Agree
What is the financial range of this project?	\$51K - \$100K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

## Economic Development Strategies

### Medium Priority Economic Development Strategies

Pillar	Action Name	Priority	Overall Ranking
Economic Development	Economic Development Action 1: Assist Non-Profits with Staffing	Medium	12

Table 9. Greene Medium Priority Economic Development Summary

This project represents the economic development strategy that Greene County indicated is of a medium priority to address. Additional detail on the project can be found below:

- **Assist Non-Profits with Staffing:** Following Hurricane Matthew, several area non-profit organizations addressed immediate unmet needs and provided critical assistance to affected members of the community. This project would assist local non-profits with funding and staffing to help them increase their capacity in providing relief assistance.
- **This is a county-wide project, so no project area map has been included.**

## Economic Development Action 1: Assist Non-Profits with Staffing

**County:** Greene

**Priority Grouping:** Medium Priority

**Priority Ranking:** 12

**Project Timeframe:** 1 year

**Location:** Countywide

**Project Summary:** Assist local non-profits with funding and staffing to help them increase their capacity in providing relief assistance.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	The non-profit organizations addressed immediate unmet needs after the storm to the affected members of the community.	N/A
Consistent with existing plans (describe points of intersection/departure)	Yes	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	N/A	Agree
For how long will this solution be effective?	Between 11 and 30 years	Agree
How effective is the risk reduction?	Unknown	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	0	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Unknown	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	N/A	N/A
What is the capability of the local government to administer this project?	Low	Agree
What is the financial range of this project?	\$0- \$50K	Agree
What is the level of public support for this project?	Unknown	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

**Low Priority Economic Development Strategies**

Pillar	Action Name	Priority	Overall Ranking
Economic Development	Economic Development Action 2: Utilize Greenhouses in Hookerton	Low	27
Economic Development	Economic Development Action 3: Expand Small Farms Program	Low	29
Economic Development	Economic Development Action 4: Develop Small Business Program	Low	31
Economic Development	Economic Development Action 5: Establish Jobs Training Program	Low	32

**Table 10. Greene Low Priority Economic Development Summary**

- Utilize Greenhouses in Hookerton:** This project would utilize the 12 greenhouses in Hookerton that are not currently in use. Utilizing these facilities for plant and crop production will help create jobs and economic resiliency within Greene County. The greenhouses are owned by the Town of Hookerton and need new tops/plastic sheeting for the roof to be operational. Options for the greenhouses’ use include agricultural training opportunities and specialty crop production.



**Figure 17. Economic Development Action 2: Utilize Greenhouses in Hookerton**

## Economic Development Action 2: Utilize Greenhouses in Hookerton

**County:** Greene

**Priority Grouping:** Low Priority

**Priority Ranking:** 27

**Project Timeframe:** 0-12 months

**Location:** Hookerton

**Project Summary:** Utilize Greenhouses in Hookerton for plant and crop production. This project would utilize the 12 greenhouses in Hookerton that are currently not in use. The greenhouses are owned by the Town of Hookerton and need new tops/plastic sheeting for the roof to be operational. Options include agricultural training opportunities and specialty crop production.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	It will help create jobs and/or serve as a job training tool.	N/A
Consistent with existing plans (describe points of intersection/departure)	The Town of Hookerton initially constructed the greenhouses as part of a failed experiment with using them to help process waste from the wastewater treatment plant. Hookerton has been working to find a new use for these facilities since they have not been used for wastewater treatment for over 7 years.	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	This project can help produce agricultural products that can be sold. It also can be used as a training center to train farmers for their own farming operations.	Agree
For how long will this solution be effective?	Between 11 and 30 years	Agree
How effective is the risk reduction?	Unknown	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	1-3	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Low to moderate confidence	N/A
What impact will this action have on the local economy/tax base?	Unknown	Agree
What impacts to the environment of the county will result from this project?	None	N/A
What is the capability of the local government to administer this project?	Minimum	Agree
What is the financial range of this project?	\$51K - \$100K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	Local	Agree

- **Expand Small Farms Program:** This project would work with the NC Cooperative Extension to help both existing small farms and to develop additional small farms in the county. This project would help connect farmers with resources aimed at assisting with unmet needs from Hurricane Matthew as well as target new opportunities to increase jobs and agricultural productivity in Greene County.
- **This is a county-wide project, so no project area map has been included.**

## Economic Development Action 3: Expand Small Farms Program

**County:** Greene

**Priority Grouping:** Low Priority

**Priority Ranking:** 29

**Project Timeframe:** 1 year

**Location:** Countywide

**Project Summary:** Expand Small Farms Program in Greene County. This project would work with the NC Cooperative Extension to help both existing small farms and to develop additional small farms in the county. This project would help connect farmers with resources aimed at assisting with unmet needs from Hurricane Matthew as well as target new opportunities to increase jobs and agricultural productivity in Greene County.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	Farmers were impacted by Hurricane Matthew and experienced loss of crops income and damage to farming infrastructure. This program will help impacted farmers reestablish their farming activities.	N/A
Consistent with existing plans (describe points of intersection/departure)	Yes	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	Yes it will help existing farmer be more productive and increase farming activity in the county.	Agree
For how long will this solution be effective?	Between 11 and 30 years	Agree
How effective is the risk reduction?	Unknown	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	0	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	N/A	N/A
What is the capability of the local government to administer this project?	Medium	Agree
What is the financial range of this project?	\$51K - \$100K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

- **Develop Small Business Support Program:** This project involves the development of a small business program that will work to help existing small businesses and promote new small businesses in the County. This program will include training for business owners and/or potential business owners, identify ideal sites for new businesses, and identify new business opportunities where gaps in the local business offerings exist.
- **This is a county-wide project, so no project area map has been included.**

## Economic Development Action 4: Develop Small Business Program

**County:** Greene

**Priority Grouping:** Low Priority

**Priority Ranking:** 31

**Project Timeframe:** 1 year

**Location:** Countywide

**Project Summary:** Develop a small business program that will work to help existing small businesses and promote new small businesses in the County. This program will include training for business owners and/or potential business owners, identify ideal sites for new businesses, and identify new business opportunities where gaps in the local business offerings exist.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	The project will help existing businesses that were impacted by Hurricane Matthew identify resources to help them recover from storm related losses and other impacts to their businesses.	N/A
Consistent with existing plans (describe points of intersection/departure)	Yes	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	Will aid in business retention and expansion of businesses in the county which will help maintain and increase employment opportunities in the county. This will positively contribute to the local tax base.	Agree
For how long will this solution be effective?	Between 11 and 30 years	Agree
How effective is the risk reduction?	Unknown	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	0	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	N/A	N/A
What is the capability of the local government to administer this project?	Medium	Agree
What is the financial range of this project?	\$51K - \$100K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

- **Establish Job Training Program:** This project will establish a job training program for unemployed residents. The program would teach highly desirable skills like construction, HVAC, electrical, and plumbing. This project would include working with the Greene County Center that is a part of the Lenoir County Community College.
- **This is a county-wide project, so no project area map has been included.**

## Economic Development Action 5: Establish Jobs Training Program

**County:** Greene

**Priority Grouping:** Low Priority

**Priority Ranking:** 32

**Project Timeframe:** 1-5 years

**Location:** Countywide

**Project Summary:** Establish a jobs training program for unemployed residents in skills like construction, HVAC, electrical, and plumbing. This project would include working with the Greene County Center that is a part of the Lenoir County Community College.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	This project will help retain residents in the county by providing them skills that will allow them to be employed.	N/A
Consistent with existing plans (describe points of intersection/departure)	Yes	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	This project would help retrain workers with skills that will help them find jobs or start their own small businesses.	Agree
For how long will this solution be effective?	More than 50 years	Agree
How effective is the risk reduction?	Unknown	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	0	Agree
Is coordination with other communities/counties needed to complete this project?	Yes	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	N/A	N/A
What is the capability of the local government to administer this project?	Low	Agree
What is the financial range of this project?	\$101K - \$250K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

## Infrastructure Strategies

### High Priority Infrastructure Strategies

Pillar	Action Name	Priority	Overall Ranking
Infrastructure	Infrastructure Action 1: Backup Generators	High	1
Infrastructure	Infrastructure Action 2: Relocate Generator for Greene County Courthouse	High	2
Infrastructure	Infrastructure Action 3: Implement Flood Warning System	High	3
Infrastructure	Infrastructure Action 4: Develop Blueway Plan for Contentnea Creek	High	4
Infrastructure	Infrastructure Action 5: Stormwater Management Plans for Hookerton and Snow Hill	High	5
Infrastructure	Infrastructure Action 6: Sewer Line Elevation and Pedestrian Bridge	High	7
Infrastructure	Infrastructure Action 7: Roof Damage Repair at County Courthouse	High	9

**Table 11. Greene High Priority Infrastructure Summary**

These projects represent the infrastructure strategies that Greene County indicated are the highest priority to address. Additional detail can be found below:

- **Backup Generators:** This project would install backup generators at pump stations and government facilities to limit service disruptions during power loss. Specific needs include:
  - Four generators are needed in Hookerton for the three lift stations and the water tower
  - Six generators are needed in Snow Hill for five sewer pump stations (75kw) and one for a well site used for drinking water (150kw)
- This is a county-wide project, so no project area map has been included.

## Infrastructure Action 1: Backup Generators

**County:** Greene

**Priority Grouping:** High Priority

**Priority Ranking:** 1

**Project Timeframe:** 1 year

**Location:** Countywide

**Project Summary:** Install backup generators at pump stations and government facilities to limit service disruptions during power loss. Four back-up generators are needed in Hookerton for the three lift stations and for the water tower. One 150kw generator needed in Snow Hill for an additional well site. Five 75kw generators needed for sewer pump stations in Snow Hill. Other backup generators may be needed in the county.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	consistent with program goals for resiliency	N/A
Consistent with existing plans (describe points of intersection/departure)	consistent with program goals for resiliency	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	The project could reduce flood risk to roads homes businesses and farmland by providing an additional outlet for water.	Agree
For how long will this solution be effective?	Between 31 and 50 years	Agree
How effective is the risk reduction?	>200 year event	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	4-6	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	Between 26 and 50%	Agree
What impacts to the environment of the county will result from this project?	The project would reestablish a natural hydrologic connection that was cut off allowing additional outlet for floodwaters.	N/A
What is the capability of the local government to administer this project?	Low	Agree
What is the financial range of this project?	\$501K - \$1M	Agree
What is the level of public support for this project?	Unknown	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	Unknown	Agree

- **Relocate Generator for Greene County Courthouse:** This project would relocate the 175kw generator that is in place at the Greene County Courthouse and is susceptible to flooding. This generator provides back-up power for all emergency communications for Fire/EMS, the 911 communication center, Sheriff/Highway patrol, justice center, clerk of court, Register of Deeds, and the Detention Center that houses about 75 inmates.

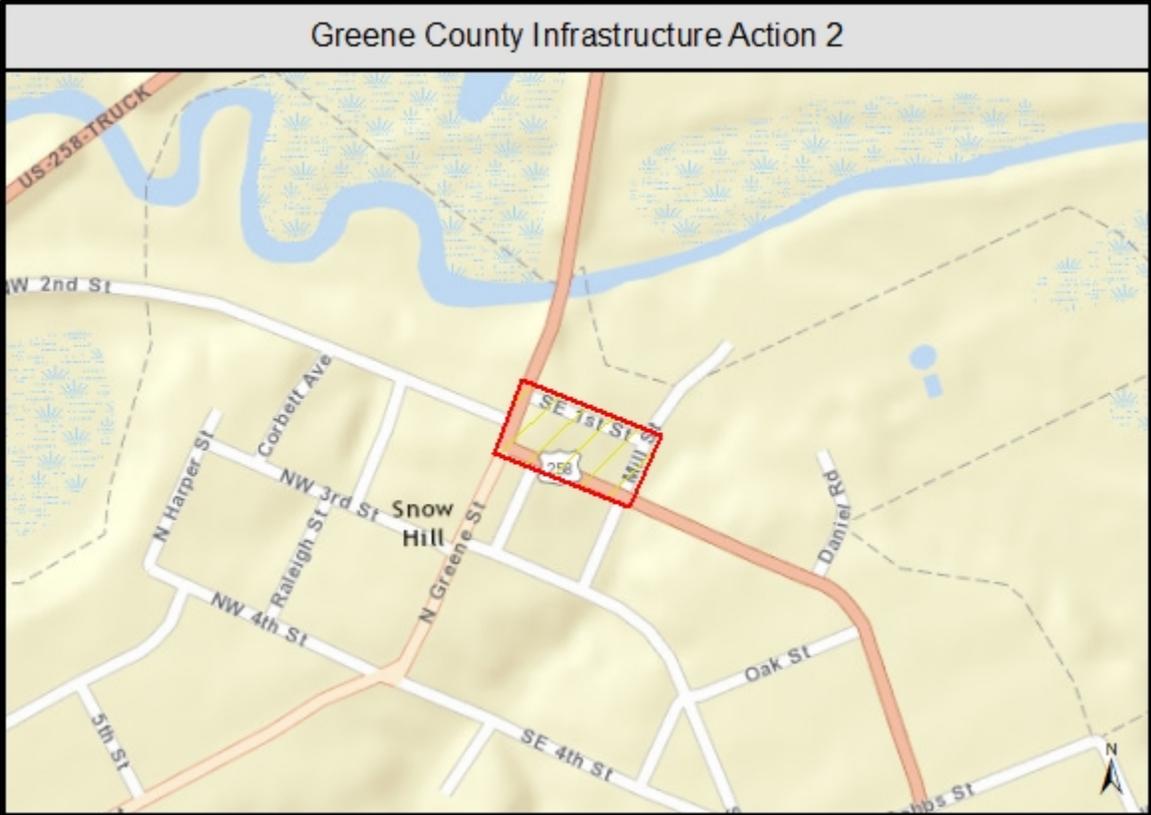


Figure 18. Infrastructure Action 2: Relocate Generator for Greene County Courthouse

## Infrastructure Action 2: Relocate Generator for Greene County Courthouse

**County:** Greene

**Priority Grouping:** High Priority

**Priority Ranking:** 2

**Project Timeframe:** 0-12 months

**Location:** Greene County Courthouse

**Project Summary:** Relocate generator at the Greene County Courthouse: The Greene County Emergency Services needs the 175 KVV generator at the Greene County Courthouse moved to higher ground, in Matthew the flood waters were about 2 inches from breaching the generator. If a breach had occurred, Greene County would have lost all Emergency communications for Fire/EMS, 911 communication center, Sheriff/Highway patrol, justice center, clerk of court, Register of Deeds, and the Detention center which houses about 75 inmates. This generator is the lifeline for Emergency services in the county. Neighboring counties rent jail space from Greene County.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	This generator was at risk of being compromised after the storm. This project will help eliminate this risk/threat in future flood events.	N/A
Consistent with existing plans (describe points of intersection/departure)	Consistent with overall goal and intent of hazard mitigation plan to minimize the effects of natural hazards.	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	Maintaining operable government services many that are essential is important to the local economy.	Agree
For how long will this solution be effective?	Between 31 and 50 years	Agree
How effective is the risk reduction?	<50 year event	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	1-3	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	Less than 25%	Agree
What impacts to the environment of the county will result from this project?	N/A	N/A
What is the capability of the local government to administer this project?	Minimum	Agree
What is the financial range of this project?	\$0- \$50K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

- **Flood Warning System on Contentnea Creek:** Three additional flood warning alarms are needed along this water body. This improvement will help emergency management personnel notify residents when flood waters are rising, which will allow people more time to protect their property and evacuate if needed.
- **This is a county-wide project, so no project area map has been included.**

## Infrastructure Action 3: Implement Flood Warning System on Contentnea Creek

**County:** Greene

**Priority Grouping:** High Priority

**Priority Ranking:** 3

**Project Timeframe:** 1 year

**Location:** Countywide

**Project Summary:** Implement Flood Warning System on Contentnea Creek. Three additional flood monitoring/warning stations are needed.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	It will help the emergency management notify residents when flood waters are rising to allow people more time to protect their property and evacuate if needed.	N/A
Consistent with existing plans (describe points of intersection/departure)	Yes	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	N/A	Agree
For how long will this solution be effective?	Between 11 and 30 years	Agree
How effective is the risk reduction?	Unknown	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	1-3	Agree
Is coordination with other communities/counties needed to complete this project?	Yes	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	N/A	N/A
What is the capability of the local government to administer this project?	Medium	Agree
What is the financial range of this project?	\$0- \$50K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

- **Blueway Plan for Contentnea Creek:** This project would fund development of a Blueway Plan for Contentnea Creek to identify needed infrastructure and improvements to the creek for recreation. These improvements would support canoeing and kayaking between Snow Hill and Hookerton, providing recreation and economic benefits.

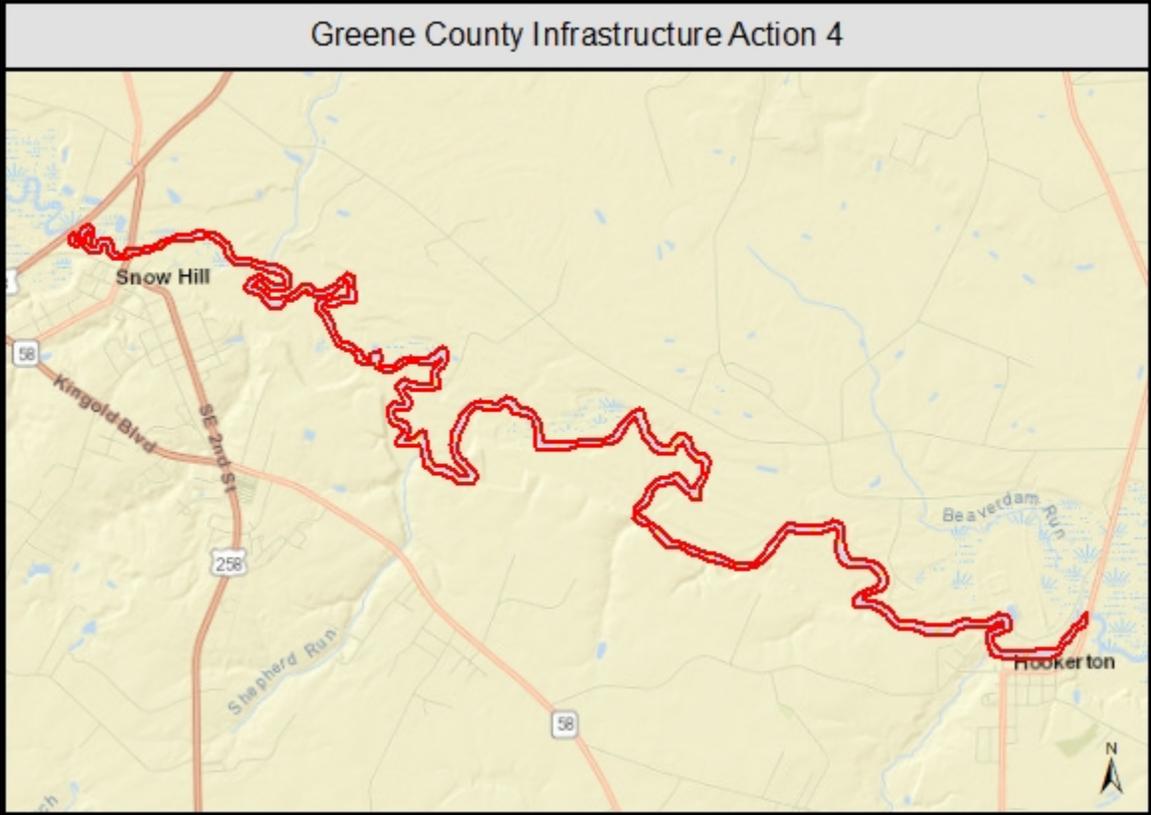


Figure 19. Infrastructure Action 4: Develop Blueway Plan for Contentnea Creek

## Infrastructure Action 4: Develop Blueway Plan for Contentnea Creek

**County:** Greene

**Priority Grouping:** High Priority

**Priority Ranking:** 4

**Project Timeframe:** 5-10 years

**Location:** Countywide

**Project Summary:** Develop a Blueway Plan for Contentnea Creek: This project would fund development of a Blueway Plan for Contentnea Creek to identify needed infrastructure and improvements to the creek for recreation. These improvements would support canoeing and kayaking between Snow Hill and Hookerton, providing recreation and economic benefits.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	This project has the potential to help reduce flooding by the development of greenways and assisting with the long-term maintenance of the Contentnea Creek and the clearing of debris that contributes to flooding.	N/A
Consistent with existing plans (describe points of intersection/departure)	Yes	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	Increases in tourism could positively impact the local economy. For local residents it would provide additional recreational opportunities and improve the quality of life.	Agree
For how long will this solution be effective?	More than 50 years	Agree
How effective is the risk reduction?	50-100 year event	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	1-3	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	This project will help to restore wetlands and clean out debris from the Contentnea Creek.	N/A
What is the capability of the local government to administer this project?	Medium	Agree
What is the financial range of this project?	\$0- \$50K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

- **Stormwater Management Plans for Hookerton and Snow Hill:** These areas have experienced repetitive flooding during rain events. Implementing stormwater management plans will help reduce flooding, keep roads safe and reduce losses to property.

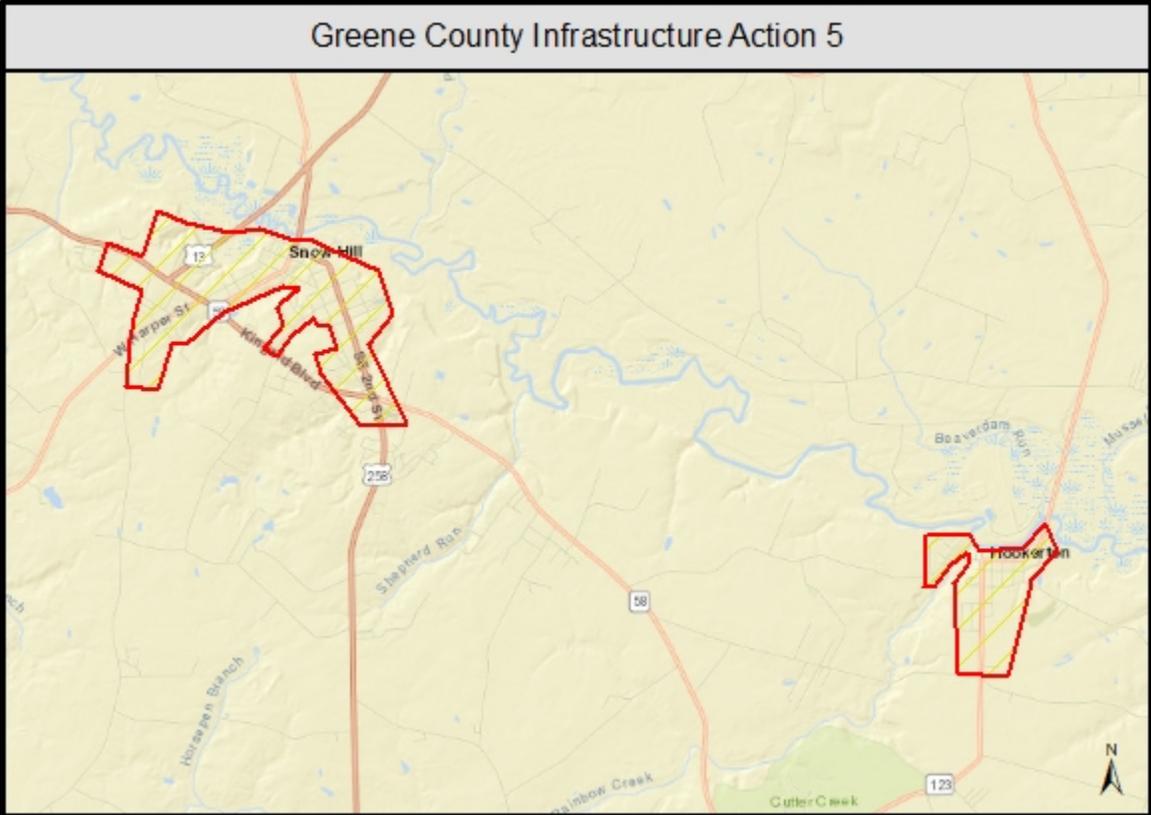


Figure 20. Infrastructure Action 5: Stormwater Management Plans for Hookerton and Snow Hill

## Infrastructure Action 5: Create Stormwater Management Plans for Hookerton and Snow Hill

**County:** Greene

**Priority Grouping:** High Priority

**Priority Ranking:** 5

**Project Timeframe:** 1-2 years

**Location:** Countywide

**Project Summary:** Stormwater Management Plans for Hookerton and Snow Hill

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	Several areas routinely flood from heavy rain falls. This will help reduce flooding and keep roads safe and reduce losses to property.	N/A
Consistent with existing plans (describe points of intersection/departure)	consistent with program goals for resiliency	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	The proposed project would reduce potential impacts from future flooding events.	Agree
For how long will this solution be effective?	Between 11 and 30 years	Agree
How effective is the risk reduction?	50-100 year event	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	1-3	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	Less than 25%	Agree
What impacts to the environment of the county will result from this project?	N/A	N/A
What is the capability of the local government to administer this project?	High	Agree
What is the financial range of this project?	\$101K - \$250K	Agree
What is the level of public support for this project?	Minimum	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	Local	Agree

- **Sewer Line Elevation and Pedestrian Bridge:** This project involves the construction of a pedestrian bridge over Contentnea Creek near 4th Street in Hookerton. This bridge would connect to the park facilities and campground on both sides of Contentnea Creek. In addition, this will provide an opportunity to elevate the sewer line that runs from the south side of Contentnea Creek to the waste water treatment plant on the north side of Contentnea Creek.

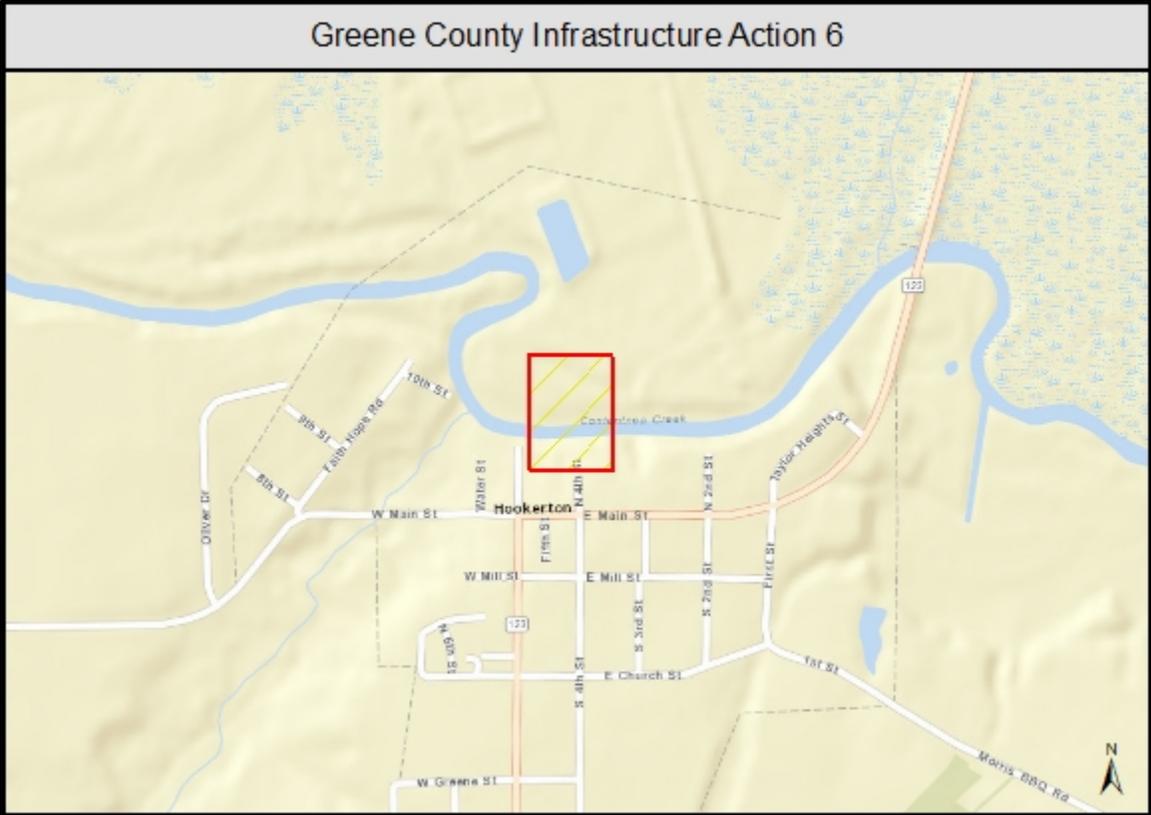


Figure 21. Infrastructure Action 6: Sewer Line Elevation and Pedestrian Bridge

## Infrastructure Action 6: Sewer Line Elevation and Pedestrian Bridge

**County:** Greene

**Priority Grouping:** High Priority

**Priority Ranking:** 7

**Project Timeframe:** 5-10 years

**Location:** Countywide

**Project Summary:** Pedestrian bridge over Contentnea Creek near 4th Street to connect to the park facilities and campground on the north side of Contentnea Creek. In addition, this will provide an opportunity to elevate the sewer line that runs from the south side of Contentnea Creek to the waste water treatment plant on the north side of Contentnea Creek.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	The elevation of the wastewater pipe will help prevent future damage to the wastewater pipe during flooding events.	N/A
Consistent with existing plans (describe points of intersection/departure)	Yes this project was included in the Hookerton Bicycle and Pedestrian Plan.	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	Will help connect the public facilities on both sides of Contentnea Creek that include a boat launch campground hiking trails and downtown Hookerton. This will help increase local tourism.	Agree
For how long will this solution be effective?	More than 50 years	Agree
How effective is the risk reduction?	50-100 year event	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	1-3	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	Yes it will help prevent damage to the wastewater line that if damaged in a storm would result in raw sewage entering Contentnea Creek.	N/A
What is the capability of the local government to administer this project?	Medium	Agree
What is the financial range of this project?	\$251K - \$500K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	Local	Agree

- **Roof Damage Repair at County Courthouse:** This project would repair damage to the roof of the Judge’s Chamber in the Greene County courthouse mezzanine. This roof was damaged during Hurricane Matthew but funding for the repair has not yet been identified.

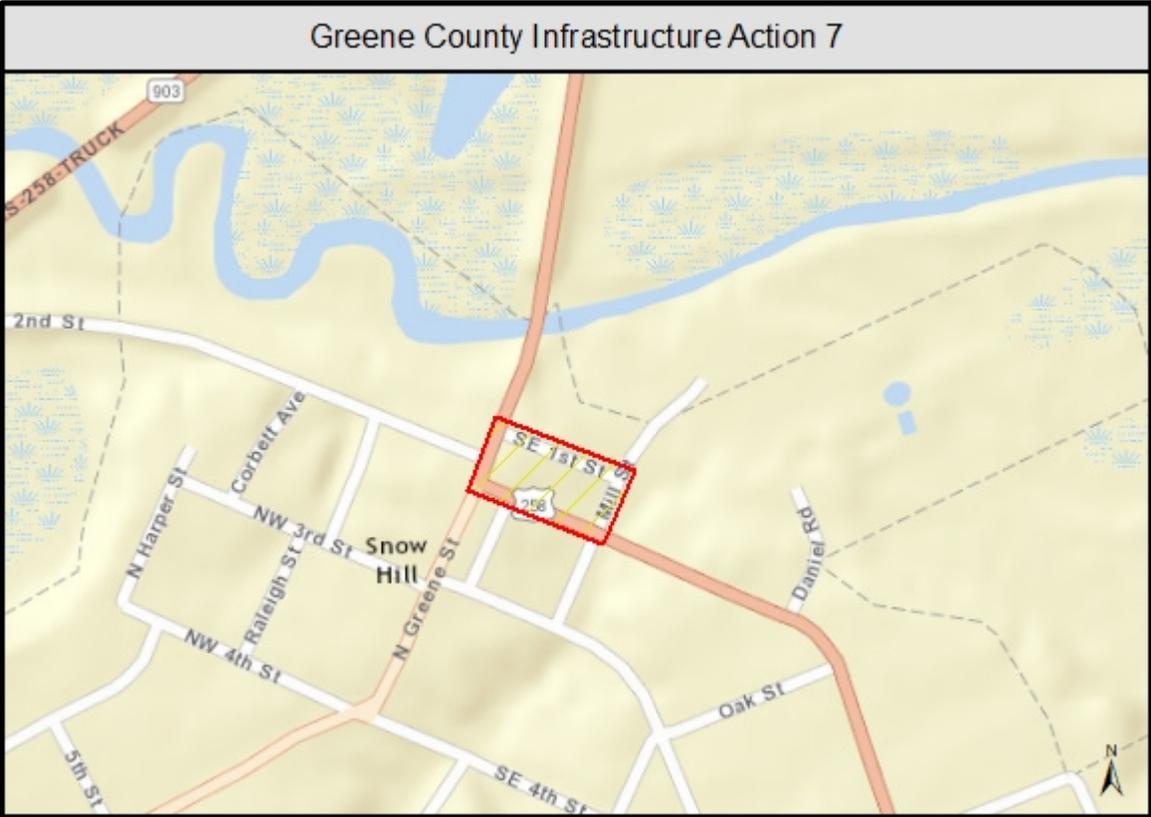


Figure 22. Infrastructure Action 7: Roof Damage Repair at County Courthouse

## Infrastructure Action 7: Roof Damage Repair at County Courthouse

**County:** Greene

**Priority Grouping:** High Priority

**Priority Ranking:** 9

**Project Timeframe:** 0-12 months

**Location:** Snow Hill

**Project Summary:** Repair roof damage in the Judge's Chamber in the County Courthouse Mezzanine

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	The roof was damaged in the storm and still needs to be fixed.	N/A
Consistent with existing plans (describe points of intersection/departure)	Yes	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	None	Agree
For how long will this solution be effective?	Between 11 and 30 years	Agree
How effective is the risk reduction?	Unknown	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	1-3	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Minimal to low confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	None	N/A
What is the capability of the local government to administer this project?	Minimum	Agree
What is the financial range of this project?	\$0- \$50K	Agree
What is the level of public support for this project?	Medium	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

**Medium Priority Infrastructure Strategies**

Pillar	Action Name	Priority	Overall Ranking
Infrastructure	Infrastructure Action 8: Implement Tornado Warning System	Medium	13
Infrastructure	Infrastructure Action 9: Stormwater Retrofits	Medium	17

**Table 12. Greene Medium Priority Infrastructure Summary**

This project represents the infrastructure strategy that Greene County indicated is of a medium priority to address. Additional detail can be found below:

- **Tornado Warning System:** Greene County has been struck by tornadoes in the past. An advanced warning system will help provide people with advanced notice of when to seek shelter from tornados, reducing threats to county residents and reducing demand on emergency management personnel.
- **This is a county-wide project, so no project area map has been included.**

## Infrastructure Action 8: Implement Tornado Warning System

**County:** Greene

**Priority Grouping:** Medium Priority

**Priority Ranking:** 13

**Project Timeframe:** 5 years

**Location:** Countywide

**Project Summary:** Implement Tornado Warning System in Greene County. Recently, a tornado hit the community and damaged a local school. This project would provide an early-warning system for residents.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	A tornado struck Greene County in recent years and the advanced warning system will help provide people with advanced notice of when to seek shelter from tornados.	N/A
Consistent with existing plans (describe points of intersection/departure)	Yes. The community had previously identified the need for a tornado warning system in their county following a tornado event that damaged a school and housing.	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	N/A	Agree
For how long will this solution be effective?	Between 31 and 50 years	Agree
How effective is the risk reduction?	Unknown	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	1-3	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	N/A	N/A
What is the capability of the local government to administer this project?	Medium	Agree
What is the financial range of this project?	\$101K - \$250K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

- **Stormwater Retrofits for Existing Facilities:** Several locations, including Village Park Mobile Homes in Hookerton, appear to experience flooding in part due to a need for larger culverts or other relatively simple retrofit projects. This project would examine the most feasible and effective retrofitting options for these high-need areas.
- **This is a county-wide project, so no project area map has been included.**

## Infrastructure Action 9: Stormwater Retrofits

**County:** Greene

**Priority Grouping:** Medium Priority

**Priority Ranking:** 17

**Project Timeframe:** 1-2 years

**Location:** Countywide; Hookerton

**Project Summary:** Stormwater retrofits: Implement stormwater retrofits such as larger culverts to address roadway flooding

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	consistent with program goals for resiliency	N/A
Consistent with existing plans (describe points of intersection/departure)	consistent with program goals for resiliency	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	N/A	Agree
For how long will this solution be effective?	Between 11 and 30 years	Agree
How effective is the risk reduction?	<50 year event	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	1-3	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	N/A	N/A
What is the capability of the local government to administer this project?	High	Agree
What is the financial range of this project?	\$101K - \$250K	Agree
What is the level of public support for this project?	Unknown	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

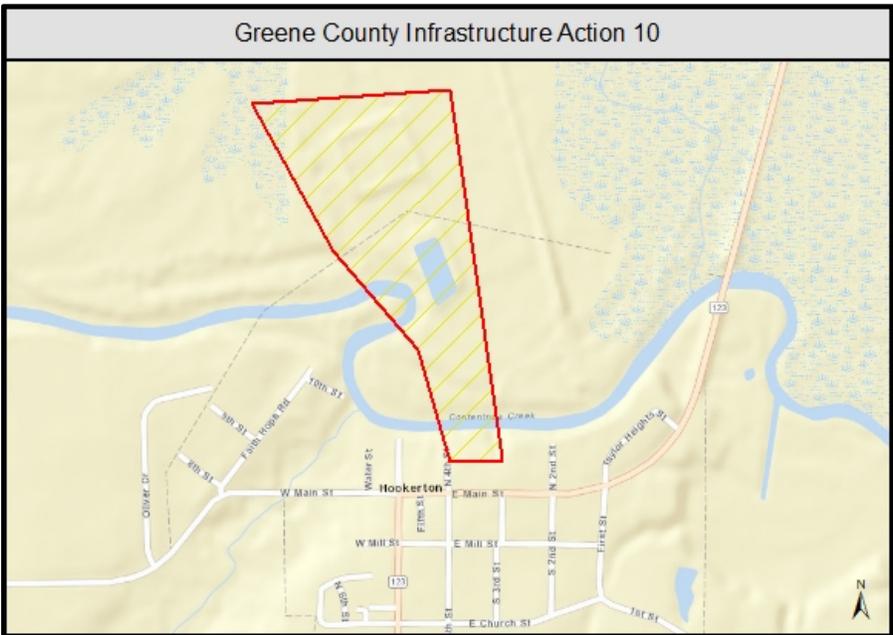
**Low Priority Infrastructure Strategies**

Pillar	Action Name	Priority	Overall Ranking
Infrastructure	Infrastructure Action 10: Harden Hookerton Wastewater Treatment Plant	Low	18
Infrastructure	Infrastructure Action 11: Create New Emergency Operations Center	Low	19
Infrastructure	Infrastructure Action 12: Expand Capacity of Animal Shelter	Low	20
Infrastructure	Infrastructure Action 13: Boat Launch Amenities	Low	21
Infrastructure	Infrastructure Action 14: Repair Damaged Stormwater Infrastructure	Low	23
Infrastructure	Infrastructure Action 15: Construct Greenways in Hookerton	Low	24
Infrastructure	Infrastructure Action 16: Transportation Infrastructure Assessment	Low	25
Infrastructure	Infrastructure Action 17: Assess Expansion of Sewer Service	Low	26
Infrastructure	Infrastructure Action 18: Widen NC 13 to Four Lanes from Snow Hill to Greenville	Low	33

**Table 13. Greene Low Priority Infrastructure Summary**

This project represents the infrastructure strategy that Greene County indicated is of a lower priority to address. Additional detail can be found below:

- Harden Hookerton Wastewater Treatment Plant:** Hookerton Wastewater Treatment Plant: This project would provide funding to harden the Hookerton Wastewater Treatment Plant to prevent sewage spills. Following Hurricane Matthew, representatives from FEMA recommended that the three berms for the three lagoons be armored. Action items required for this project include engineering study on the technical approach, as well as project design and construction.



**Figure 23. Infrastructure Action 10: Harden Hookerton Wastewater Treatment Plant**

## Infrastructure Action 10: Harden Hookerton Wastewater Treatment Plant

**County:** Greene

**Priority Grouping:** Low Priority

**Priority Ranking:** 18

**Project Timeframe:** 1-2 years

**Location:** Countywide

**Project Summary:** Hookerton Wastewater Treatment Plant: This project would provide funding to harden the Hookerton Wastewater Treatment Plant to prevent sewage spills during future flood events. Following Hurricane Matthew, representatives from FEMA recommended that the three berms for the three lagoons be armored. Action items required for this project is an engineering study on the technical approach and design and construction.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	This lagoons surrounding this facility came close to being breached by the floodwaters after Hurricane Matthew.	N/A
Consistent with existing plans (describe points of intersection/departure)	Yes this project is identified in the hazard mitigation plan for Greene County.	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	N/A	Agree
For how long will this solution be effective?	Between 11 and 30 years	Agree
How effective is the risk reduction?	50-100 year event	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	1-3	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	No	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	Less than 25%	Agree
What impacts to the environment of the county will result from this project?	This will prevent the Hookerton Wastewater Treatment Plant from being compromised during storm events which if compromised would result in raw sewage being dumped into Contentnea Creek.	N/A
What is the capability of the local government to administer this project?	High	Agree
What is the financial range of this project?	\$251K - \$500K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

- **Create New Emergency Operations Center (EOC):** This project would provide for a new EOC for Greene County. Currently, Greene County operates out of a single room that is not large enough to stand up a full EOC.

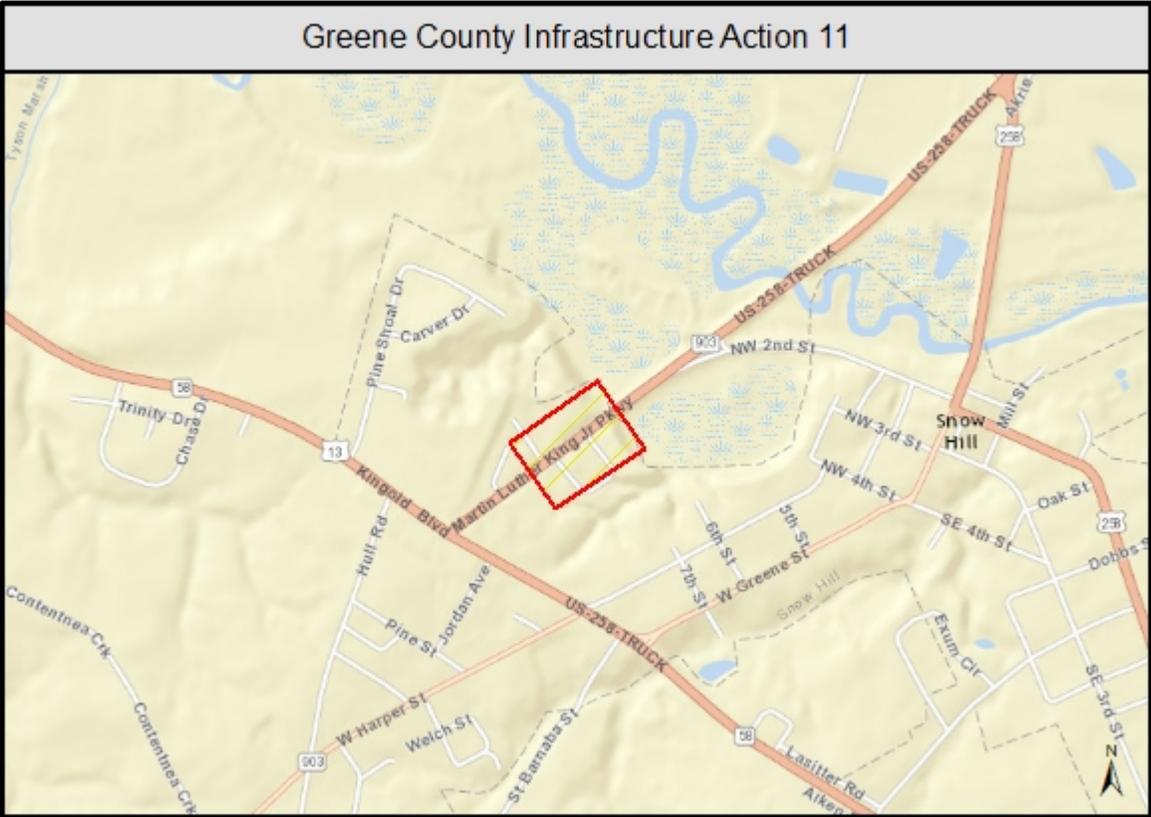


Figure 24. Infrastructure Action 11: Create New Emergency Operations Center

## Infrastructure Action 11: Create New Emergency Operations Center

**County:** Greene

**Priority Grouping:** Low Priority

**Priority Ranking:** 19

**Project Timeframe:** 2-3 years

**Location:** Greene County

**Project Summary:** Create a new Emergency Operations Center for Greene County Emergency Services. Greene County needs an Emergency Operations Center for Disasters to plan and operate with staffing room for an EOC. Currently, Greene County only has a small office and it is not big enough to operate an EOC from.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	The community has a need for an EOC. This project will help them have an operational EOC following future emergency events.	N/A
Consistent with existing plans (describe points of intersection/departure)	Consistent with the overall goal of the hazard mitigation plan to minimize the effects of natural hazards.	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	Improving emergency operations will benefit local businesses.	Agree
For how long will this solution be effective?	Between 11 and 30 years	Agree
How effective is the risk reduction?	<50 year event	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	1-3	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Unknown	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	None	N/A
What is the capability of the local government to administer this project?	Medium	Agree
What is the financial range of this project?	\$251K - \$500K	Agree
What is the level of public support for this project?	Medium	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

- **Expand Capacity of the Greene County Animal Control:** Following Hurricane Matthew, the Animal Control was responsible for rescuing domesticated animals that were impacted by the flooding. They have a very limited shelter space/kennels that are available for evacuated animals. This project would help address that situation by providing them with additional kennels and space to operate from.

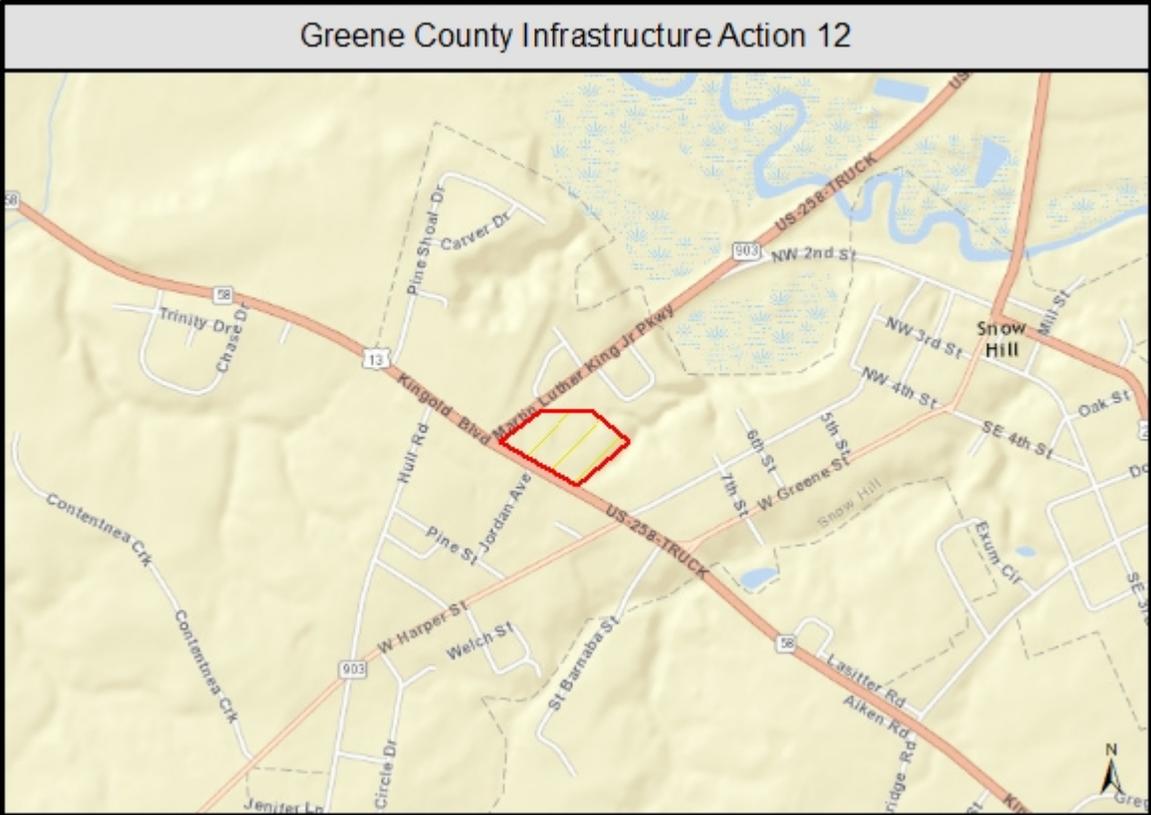


Figure 25. Infrastructure Action 12: Expand Capacity of Animal Shelter

## Infrastructure Action 12: Expand Capacity of Animal Shelter

**County:** Greene

**Priority Grouping:** Low Priority

**Priority Ranking:** 20

**Project Timeframe:** 2-3 years

**Location:** Greene County

**Project Summary:** Expand capacity/holding space of the Greene County Animal Control: Following Hurricane Matthew, the Animal Control was responsible for rescuing domesticated animals that were impacted by the flooding. They have a very limited shelter space/kennels that are available for evacuated animals. This project would help address that situation by providing them with additional kennels and space to operate from.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	Animal Control is responsible for evacuating and sheltering animals during emergency situations. They were at/over capacity after Hurricane Matthew.	N/A
Consistent with existing plans (describe points of intersection/departure)	Consistent with the overall goal of the hazard mitigation plan to alleviate the effects of natural hazards.	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	N/A	Agree
For how long will this solution be effective?	Between 11 and 30 years	Agree
How effective is the risk reduction?	Unknown	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	1-3	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Unknown	N/A
What impact will this action have on the local economy/tax base?	Less than 25%	Agree
What impacts to the environment of the county will result from this project?	N/A	N/A
What is the capability of the local government to administer this project?	Minimum	Agree
What is the financial range of this project?	\$0- \$50K	Agree
What is the level of public support for this project?	Unknown	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

- **Boat Launch Amenities:** This project would add amenities to the boat launches in Hookerton and Snow Hill, including flood-proof bathrooms, bicycle parking, a bike repair station, and kayak rentals. This project would increase use of the boat launch and would bring tourists into Hookerton and Snow Hill.

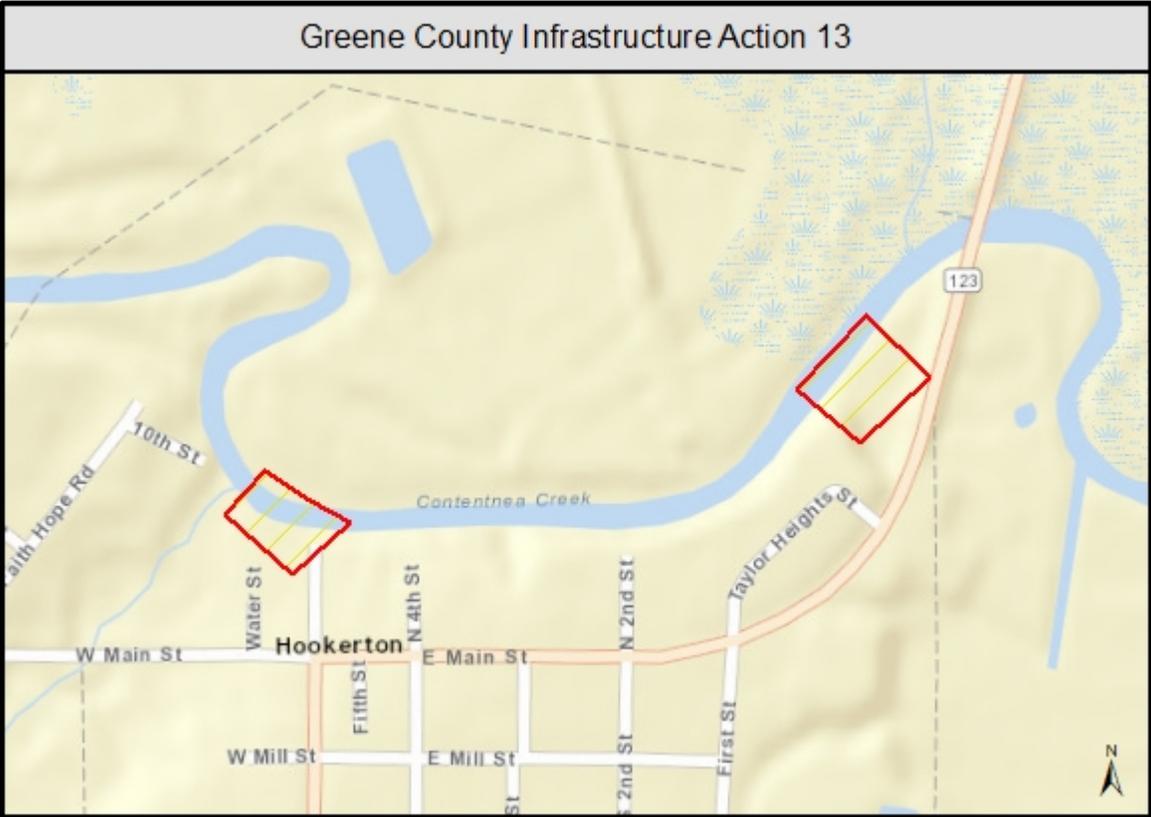


Figure 26. Infrastructure Action 13: Boat Launch Amenities

## Infrastructure Action 13: Boat Launch Amenities

**County:** Greene

**Priority Grouping:** Low Priority

**Priority Ranking:** 21

**Project Timeframe:** 0-2 years

**Location:** Hookerton and Snow Hill

**Project Summary:** Boat Launch Amenities: This project would add amenities at the boat launches in Hookerton and Snow Hill that includes flood proof bathrooms, a bicycle parking, a bike repair station, and kayak rentals. This project would assist with increasing the use and bringing tourists into Hookerton and Snow Hill.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	This will help bring jobs into the local community.	N/A
Consistent with existing plans (describe points of intersection/departure)	These projects were identified in the Hookerton Bicycle and Pedestrian Plan.	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	This project will help bring in tourism to the local community.	Agree
For how long will this solution be effective?	Between 11 and 30 years	Agree
How effective is the risk reduction?	Unknown	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	1-3	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Minimal to low confidence	N/A
What impact will this action have on the local economy/tax base?	Less than 25%	Agree
What impacts to the environment of the county will result from this project?	None	N/A
What is the capability of the local government to administer this project?	Low	Agree
What is the financial range of this project?	\$51K - \$100K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	Local	Agree

- **Repair Damaged Stormwater Infrastructure:** Several locations, including Village Park Mobile Homes in Hookerton, appear to experience flooding in part due to a need for larger culverts or other relatively simple retrofit projects. This project would examine the most feasible and effective retrofitting options for these high-need areas.
- **This is a county-wide project, so no project area map has been included.**

## Infrastructure Action 14: Repair Damaged Stormwater Infrastructure

**County:** Greene

**Priority Grouping:** Low Priority

**Priority Ranking:** 23

**Project Timeframe:** 2-5 years

**Location:**

**Project Summary:** Repair damaged storm water infrastructure throughout the county. Coordination with NCDOT to determine their plans will be needed.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	consistent with program goals for resiliency	N/A
Consistent with existing plans (describe points of intersection/departure)	unknown	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	The project would implement improvements that could reduce flood risk to roads homes businesses and farmland.	Agree
For how long will this solution be effective?	Between 11 and 30 years	Agree
How effective is the risk reduction?	>200 year event	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	1-3	Agree
Is coordination with other communities/counties needed to complete this project?	Yes	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	Less than 25%	Agree
What impacts to the environment of the county will result from this project?	The project would implement solutions that could improve water flow and stormwater runoff.	N/A
What is the capability of the local government to administer this project?	Medium	Agree
What is the financial range of this project?	\$251K - \$500K	Agree
What is the level of public support for this project?	Unknown	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	Regional	Agree

- **Construct Greenways in Hookerton:** This project would construct several proposed greenways in the Town of Hookerton, including one near the historic cemetery, near the Hookerton Town Park, and along Contentnea Creek. The project will help improve non-motorized options for residents to get around their community and to reach resources.

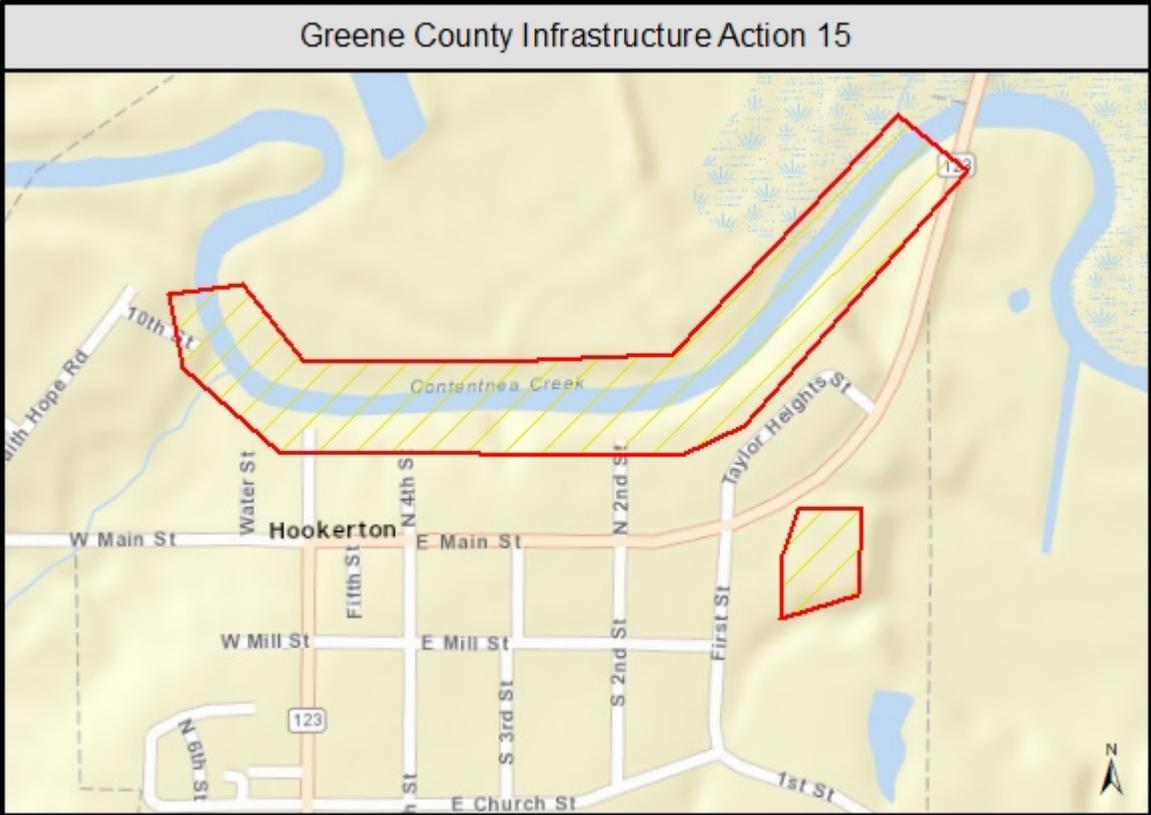


Figure 27. Infrastructure Action 15: Construct Greenways in Hookerton

## Infrastructure Action 15: Greenways in Hookerton

**County:** Greene

**Priority Grouping:** Low Priority

**Priority Ranking:** 24

**Project Timeframe:** 5-10 years

**Location:** Town of Hookerton

**Project Summary:** Greenways in Hookerton. This project would construct several proposed greenways in the Town of Hookerton, including near the historic cemetery, near the Hookerton Town Park, and along Contentnea Creek. Key steps in this project would be to conduct a feasibility study, develop final designs, and construct the project.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	The project will help improve non-motorized options for residents to get around their community and to reach resources. It will also help improve water quality.	N/A
Consistent with existing plans (describe points of intersection/departure)	Yes these greenways projects were identified in the Hookerton Bicycle and Pedestrian Plan.	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	Increases in tourism could positively impact the local economy. For local residents it would provide additional recreational opportunities and improve the quality of life.	Agree
For how long will this solution be effective?	More than 50 years	Agree
How effective is the risk reduction?	50-100 year event	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	4-6	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Minimal to low confidence	N/A
What impact will this action have on the local economy/tax base?	Less than 25%	Agree
What impacts to the environment of the county will result from this project?	This project will help improve water quality.	N/A
What is the capability of the local government to administer this project?	Medium	Agree
What is the financial range of this project?	\$251K - \$500K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	Local	Agree

- **Transportation Infrastructure Assessment:** This project would provide funding for the County to assess roadways that were flooded during Hurricane Matthew to determine if elevating roadways or stormwater improvement projects are needed.
- **This is a county-wide project, so no project area map has been included.**

## Infrastructure Action 16: Transportation Infrastructure Assessment

**County:** Greene

**Priority Grouping:** Low Priority

**Priority Ranking:** 25

**Project Timeframe:** 1 year

**Location:** Countywide

**Project Summary:** Transportation Infrastructure Assessment: This project would provide funding for the County to assess roadways that were flooded during Hurricane Matthew to determine if elevating roadways or stormwater improvement projects are needed.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	consistent with program goals for resiliency	N/A
Consistent with existing plans (describe points of intersection/departure)	consistent with program goals for resiliency	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	N/A	Agree
For how long will this solution be effective?	Between 11 and 30 years	Agree
How effective is the risk reduction?	100-200 year event	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	>6	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	N/A	N/A
What is the capability of the local government to administer this project?	High	Agree
What is the financial range of this project?	\$101K - \$250K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

- **Assess Expansion of Sewer Service:** This project involves expanding sewer service to new areas in order to encourage development outside the floodplain. Locating homes, businesses and government facilities outside the floodplain would reduce the probability of damage during future storms.
- **This is a county-wide project, so no project area map has been included.**

## Infrastructure Action 17: Assess Expansion of Sewer Service

**County:** Greene

**Priority Grouping:** Low Priority

**Priority Ranking:** 26

**Project Timeframe:** 1-2 years

**Location:** Countywide

**Project Summary:** Assess expansion of sewer service to encourage development outside of floodplain. This project would identify land area to expand sewer service to, which would assist in the development of land for residences and businesses outside of the floodplain.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	consistent with program goals for resiliency	N/A
Consistent with existing plans (describe points of intersection/departure)	consistent with program goals for resiliency	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	unknown	Agree
For how long will this solution be effective?	Between 31 and 50 years	Agree
How effective is the risk reduction?	>200 year event	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	1-3	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	Less than 25%	Agree
What impacts to the environment of the county will result from this project?	unknown	N/A
What is the capability of the local government to administer this project?	High	Agree
What is the financial range of this project?	\$101K - \$250K	Agree
What is the level of public support for this project?	Unknown	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

- **Widen NC 13 to Four Lanes from Snow Hill to Greenville:** This project involves widening NC 13 to four lanes from Snow Hill to Greenville. This project would improve connectivity to food, shelter, and medical facilities located outside of the county. This road was closed after Hurricane Matthew and hampered the ability for supplies and emergency support to get to the county.

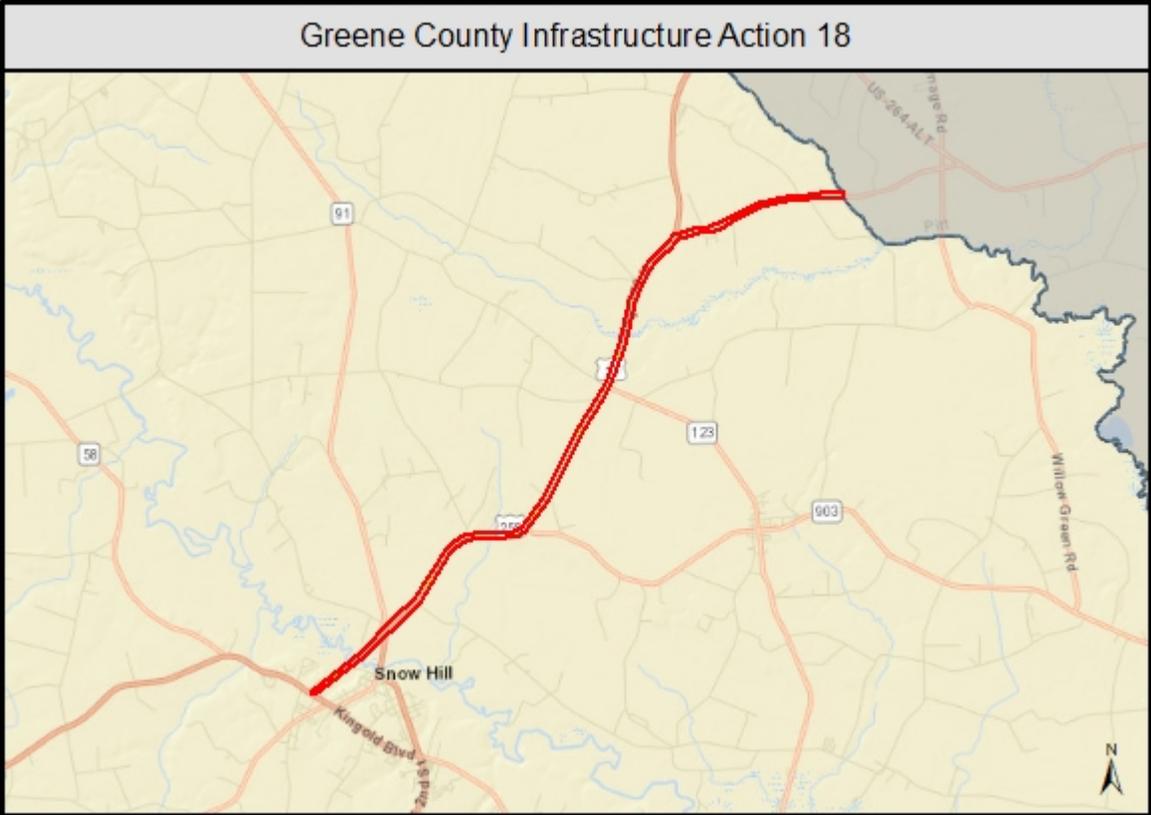


Figure 28. Infrastructure Action 18: Widen NC 13 to Four Lanes from Snow Hill to Greenville

## Infrastructure Action 18: Widen NC 13 to 4 Lanes from Snow Hill to Greenville

**County:** Greene

**Priority Grouping:** Low Priority

**Priority Ranking:** 33

**Project Timeframe:** 15-20 years

**Location:** County

**Project Summary:** Widen NC 13 to four lanes from Snow Hill to Greenville. This project would improve connectivity to food, shelter, and medical facilities located outside of the county. This road was closed after Hurricane Matthew and hampered the ability for supplies and emergency support to get to the county.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	Helps to alleviate issues related to residents being able to reach goods and services as well as emergency responders	N/A
Consistent with existing plans (describe points of intersection/departure)	Unknown	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	Improved highway infrastructure will decrease travel times and make Greene County more attractive to new and expanding businesses.	Agree
For how long will this solution be effective?	More than 50 years	Agree
How effective is the risk reduction?	50-100 year event	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	1-3	Agree
Is coordination with other communities/counties needed to complete this project?	Yes	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Minimal to low confidence	N/A
What impact will this action have on the local economy/tax base?	Unknown	Agree
What impacts to the environment of the county will result from this project?	Unknown	N/A
What is the capability of the local government to administer this project?	High	Agree
What is the financial range of this project?	\$1M+	Agree
What is the level of public support for this project?	Unknown	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	State	Agree

## Environmental, Ecosystem and Agricultural Strategies

### Medium Priority Environmental Strategies

Pillar	Action Name	Priority	Overall Ranking
Environment	Environment Action 1: Stream and Drainage Clean Up	Medium	10
Environment	Environment Action 2: Expand Beaver Management Program	Medium	11
Environment	Environment Action 3: Park, Open Space, and Rural Lands System Plan	Medium	14

**Table 14. Greene Medium Priority Environmental Summary**

These projects represent the environmental strategies that Greene County indicated are of a medium priority to address. Additional detail can be found below:

- Stream and Drainage Clean Up:** Partner with the North Carolina Department of Agriculture Division of Soil and Water Conservation’s Stream Debris Removal Project to remove storm debris blocking streams and drainage systems. This project would involve collaboration with statewide Big Sweep cleanup to remove debris, provide funding for necessary tools and equipment.
- This is a county-wide project, so no project area map has been included.**

## Environment Action 1: Stream and Drainage Clean Up

**County:** Greene

**Priority Grouping:** Medium Priority

**Priority Ranking:** 10

**Project Timeframe:** 1 year

**Location:** Countywide

**Project Summary:** Stream and Drainage Clean Up.

Partner with the North Carolina Department of Agriculture Division of Soil and Water Conservation’s Stream Debris Removal Project to remove storm debris blocking streams and drainage systems

This project would involve collaboration with statewide Big Sweep cleanup to remove debris, provide funding for necessary tools and equipment.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	Debris from Matthew in the creeks waterways and ditches will exacerbate future flooding issues and contribute to flooding issues of individual properties.	N/A
Consistent with existing plans (describe points of intersection/departure)	Consistent with overall flood protection and mitigation goals of the hazard mitigation plan.	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	Will improve access and usability of the waterways in Greene County	Agree
For how long will this solution be effective?	Less than 10 years	Agree
How effective is the risk reduction?	Unknown	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	0	Agree
Is coordination with other communities/counties needed to complete this project?	Yes	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Low to moderate confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	Positive	N/A
What is the capability of the local government to administer this project?	Medium	Agree
What is the financial range of this project?	\$51K - \$100K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

- **Expand Beaver Management Program:** Currently, Greene County only funds a part-time employee for beaver management and this project would expand this to a full-time employee dedicated to beaver management.
- **This is a county-wide project, so no project area map has been included.**

## Environment Action 2: Expand Beaver Management Program

**County:** Greene

**Priority Grouping:** Medium Priority

**Priority Ranking:** 11

**Project Timeframe:** 1 year

**Location:** Countywide

**Project Summary:** Expand Beaver Management Program. Currently Greene County only funds a part-time employee for beaver management and this project would expand this to a full time employee dedicated to beaver management.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	This project does not address an unmet need but has been identified as a need by the community.	N/A
Consistent with existing plans (describe points of intersection/departure)	Consistent with overall flood protection and mitigation goals of the hazard mitigation plan.	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	Will reduce localized flooding impacts.	Agree
For how long will this solution be effective?	Less than 10 years	Agree
How effective is the risk reduction?	Unknown	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	0	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Low to moderate confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	Positive	N/A
What is the capability of the local government to administer this project?	Medium	Agree
What is the financial range of this project?	\$0- \$50K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	State	Agree

- **Parks, Open Space, and Rural Lands System Plan:** This project would provide funding to develop an open space, county-wide plan for developing parks and recreation facilities. The plan would include a study to identify and select strategic properties for reuse as public spaces, parks, passive recreational areas, and community gardens, as well as identify rural lands in need of protection. The project would also establish funds to create parks and recreation facilities.
- **This is a county-wide project, so no project area map has been included.**

## Environment Action 3: Park, Open Space, and Rural Lands System Plan

**County:** Greene

**Priority Grouping:** Medium Priority

**Priority Ranking:** 14

**Project Timeframe:** 2-3 years

**Location:** Countywide

**Project Summary:** Parks, Open Space, and Rural Lands System Plan: This project would provide funding to develop an open space plan to create a county-wide plan for developing parks/recreation facilities. The plan would include a study to identify and select strategic properties for reuse as public spaces, parks, passive recreational areas, and community gardens, as well as identify rural lands in need of protection. The project would also establish funds to create parks and recreation facilities.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	Planned open spaces will provide recreational opportunities as well as preserve natural and beneficial functions of floodplains which will alleviate flooding from future storms like Hurricane Matthew	N/A
Consistent with existing plans (describe points of intersection/departure)	Consistent with overall flood protection and mitigation goals of the hazard mitigation plan.	Agree
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	Agree
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	Agree
Explain any benefits or impacts to the economy of the county from this project.	Will improve access and usability of the waterways in Greene County	Agree
For how long will this solution be effective?	More than 50 years	Agree
How effective is the risk reduction?	50-100 year event	Agree
How many public facilities are involved in this project (buildings and infrastructure)?	1-3	Agree
Is coordination with other communities/counties needed to complete this project?	No	Agree
Is this project consistent with Federal Laws	Yes	Agree
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	Agree
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Low to moderate confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	Agree
What impacts to the environment of the county will result from this project?	Positive	N/A
What is the capability of the local government to administer this project?	High	Agree
What is the financial range of this project?	\$101K - \$250K	Agree
What is the level of public support for this project?	High	Agree
What is the technical feasibility of this project?	Higher than 75%	Agree
Who will administer this project?	County	Agree

**Low Priority Environmental Strategies**

Pillar	Action Name	Priority	Overall Ranking
Environment	Environment Action 4: Riparian Buffer Program	Low	28
Environment	Environment Action 5: Turn Swine Lagoons to Methane Gas	Low	34

**Table 15. Greene Low Priority Environmental Summary**

These projects represent the environmental strategies that Greene County indicated is of a lower priority to address. Additional details can be found below:

- **Riparian Buffer Program:** This project would provide funding for the county to implement riparian buffers and wetland restoration along waterways. Riparian buffers improve water quality by filtering runoff and nutrients and provide a larger buffer for flooding.
- **This is a county-wide project, so no project area map has been included.**

## Environment Action 4: Riparian Buffer Program

**County:** Greene

**Priority Grouping:** Low Priority

**Priority Ranking:** 28

**Project Timeframe:** 5-10 years

**Location:** Countywide

**Project Summary:** Implement Riparian Buffers: This project would provide funding for the county to implement riparian buffers along waterways. Riparian buffers improve water quality by filtering runoff and nutrients and provide a larger buffer for flooding.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	Creation of riparian buffers will alleviate future flooding from storms like Hurricane Matthew.	N/A
Consistent with existing plans (describe points of intersection/departure)	Consistent with overall flood protection and mitigation goals of the hazard mitigation plan.	N/A
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	N/A
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	N/A
Explain any benefits or impacts to the economy of the county from this project.	Will improve access and usability of the waterways in Greene County	N/A
For how long will this solution be effective?	More than 50 years	N/A
How effective is the risk reduction?	50-100 year event	N/A
How many public facilities are involved in this project (buildings and infrastructure)?	0	N/A
Is coordination with other communities/counties needed to complete this project?	No	N/A
Is this project consistent with Federal Laws	Yes	N/A
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	N/A
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Low to moderate confidence	N/A
What impact will this action have on the local economy/tax base?	No Impact	N/A
What impacts to the environment of the county will result from this project?	Positive	N/A
What is the capability of the local government to administer this project?	Medium	N/A
What is the financial range of this project?	\$101K - \$250K	N/A
What is the level of public support for this project?	High	N/A
What is the technical feasibility of this project?	Higher than 75%	N/A
Who will administer this project?	County	N/A

- **Turn Swine Lagoons to Methane Gas:** This project would work with local hog farmers to design anaerobic biodigesters that create biogas from hog waste, which is 65 percent methane. The gas would be pumped to a centralized facility, where it will be upgraded to pipeline quality. The carbon-neutral gas (compared to non-captured lagoon emissions) will then flow into a major gas pipeline feeding into an energy utility company that would operate a combined-cycle power plant.
- **This is a county-wide project, so no project area map has been included.**

## Environment Action 5: Turn Swine Lagoons to Methane Gas

**County:** Greene

**Priority Grouping:** Low Priority

**Priority Ranking:** 34

**Project Timeframe:** 2-3 years

**Location:** Greene County

**Project Summary:** Turn Swine Lagoon Waste into Methane Gas: This project would work with local hog farmers to design anaerobic bio-digesters that create bio-gas from hog waste, which is 65 percent methane. The gas would be pumped to a centralized facility, where it will be upgraded to pipeline quality. The carbon-neutral gas (compared to non-captured lagoon emissions) will then flow into a major gas pipeline feeding into an energy utility company that would operate a combined-cycle power plant.

Question	Response	Disposition
Articulate how this project addresses an unmet need that has been created by damage from Hurricane Matthew.	It will help create jobs clean energy and reduce impacts from flooding of swine operations.	N/A
Consistent with existing plans (describe points of intersection/departure)	Under North Carolina's Renewable Energy and Efficiency Portfolio Standard the utility is required to supply a portion of their renewable energy from swine waste although such projects have been slow to materialize.	N/A
Does this project comply with existing Local and State authority (codes, plan and ordinance)?	Yes	N/A
Does this project meet the intents and goals for the Hurricane Matthew Recovery Act?	Yes	N/A
Explain any benefits or impacts to the economy of the county from this project.	This will help create jobs.	N/A
For how long will this solution be effective?	Between 11 and 30 years	N/A
How effective is the risk reduction?	Unknown	N/A
How many public facilities are involved in this project (buildings and infrastructure)?	0	N/A
Is coordination with other communities/counties needed to complete this project?	Yes	N/A
Is this project consistent with Federal Laws	Yes	N/A
To what degree does this project adversely impact local floodplain/coastal zone management?	No Impact	N/A
To what degree will it be possible to positively quantify the environmental benefits and ROI of this project?	Medium to high confidence	N/A
What impact will this action have on the local economy/tax base?	Less than 25%	N/A
What impacts to the environment of the county will result from this project?	It will create a renewable energy source and reduce swine operation wastes which will benefit the environment.	N/A
What is the capability of the local government to administer this project?	Low	N/A
What is the financial range of this project?	\$101K - \$250K	N/A
What is the level of public support for this project?	Medium	N/A
What is the technical feasibility of this project?	Higher than 75%	N/A
Who will administer this project?	Regional	N/A

## Summary

Implementation has already begun for some of these actions but for those that have not already been funded, the State of North Carolina will begin a process of prioritizing the actions and seeking to match a funding stream to each action. Those that are not matched with a funding source will be added to the State’s Unmet Needs Report. Funding for Unmet Needs will be sought through additional funding from Congress and from the North Carolina General Assembly. Any action that cannot be matched to a funding source should be incorporated into the County’s Hazard Mitigation Plan for consideration for future funding. It is important to seek to implement as many of these actions as feasible. Doing so will significantly contribute to helping improve the resiliency of North Carolina’s communities.